

THE MARCH 1938

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RADIO INDEX

The All-wave Radio Log

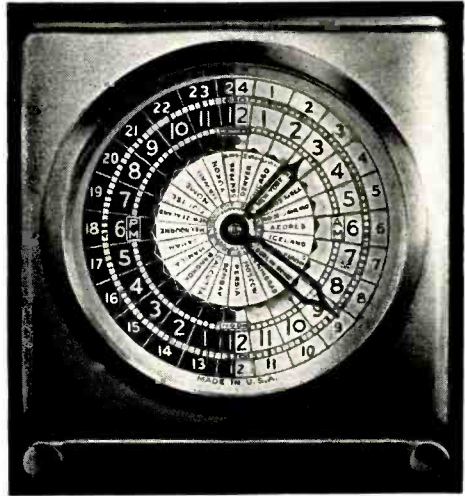


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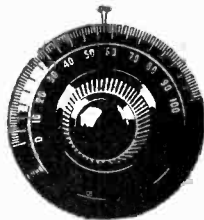
Cleveland, Ohio

MARCH 1, 1938



RADIO INDEX

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FOURTEENTH YEAR

NUMBER 117

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OCCASIONALLY you hear some pretty funny things on the radio. A continuity writer may slip up on his word slinging, a speaker stammer over his script or an ad-libbing announcer talk too fast for his train of thought—and everyone will get a little chuckle over the misfortune of the offender.

Of course, there is the classic example of the time Lou Gehrig was being interviewed on a *Huskies* program. As on all such broadcasts, the announcer came to the all-important question of what breakfast food Lou liked best. Instead of the logical answer of *Huskies*, the Yankee first-baseman flabbergasted the entire studio with a cheerful endorsement of *Wheaties*.

The script writer of the December 5th Magic Key program must have had an off moment when he dished out the commercial plug for the 2:53 p.m. spot. Asked why he liked the new and complicated electric tuning device on the 1938 RCA line, a purchaser was supposed to reply: "Because it changes a mechanical apparatus into a true musical instrument." (It isn't so much the point of the story as the way he said it, smirked Esmeralda.)

A few station breaks later on the same afternoon, a Mutual announcer was broadcasting the pro football game between the New York Giants and the Washington Redskins. At a very crucial moment in the game, a

Giants player was knocked cold and time was called. So, in came the announcer to bellow, "And this is the time to go to your dealer's to see the new money-saving American Beauty Dodge!" (While that half-back holds up the game, huh?)

But, in my opinion, the chuckle of the year was at the expense of our old friend Doctor Brinkley. Of course most of us have happened across his cheerful little talks in the early ayems, and wondered when the good doctor ever found time for a bit of shut-eye. However, John T. Crabtree, of Santa Fe, N. M., discloses the gruesome secret. It appears that those friendly chats with his neighbors are in reality transcriptions, recorded at his leisure and played back when most of us should be asleep. The proof of the pudding, mates, is that one morning the record cracked, and the doctor got stuck on one phrase, repeating it over and over again.

Can't help but wonder if it might have been the old Siamese chant, which goes: "Owah Tagoo Siam!" Start slowly, boys, and speed it up gradually! You'll get the point.

The Memory Page

A lot can happen in a few years, particularly in the world of radio. Changes are so fast and so permanent, that few people realize that they are taking place. But look back a few years, consider what was happening then, and you'll realize

that we've come quite a distance.

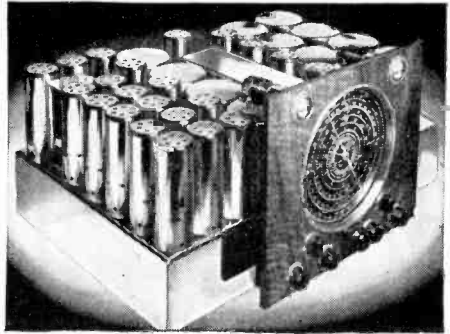
Just five years ago, for example, the cover of the March 1933 RADEX featured Jeannie Lang, who, at that time, was considered some punkins as a singer of pop songs. After a bit with Paul Whiteman in a picture and a short time as soloist for Jack Benny's orchestra, Jeannie had landed in the middle of a juicy commercial with Colonel Stoopnagle and Budd. But where in Jeannie now?

That issue of RADEX wrote finis to one of the earliest cases of the wolves howling about a DXer's record of reception. George Lilley of West Chester, Pa., had reported reception of TA's and TP's on a two-tube set of his own construction, and how the protests did come in! One of the most vehement critics, a Mr. X, wrote in the following vein. "Preposterous claims." "I wonder if there is anyone who is ignorant enough to believe it." "These fellows are crooks and their verifications fraudulent." Never has one of these fakers brought one of these miracle stations in in the presence of other DXers." "Why not appoint several subscribers in their vicinity to call upon them any day and any time. I'm sure you'll find they have their first foreigner to get."

And that March 1933 RADEX went on to report that this same Mr. X had proceeded to call on George Lilley and, after an all-night session with the little two-tuber, acknowledged that Mr. Lilley had been able to bring in 4BH, 4QG and 2BL. At the time, 4BH was rated at but 200 watts, so it would be excellent reception even today with a powerful receiver. Five years ago, with a small set and before a skeptical witness, it was indeed remarkable.

The same issue of RADEX announced the appointment of Page Taylor, of Detroit, as Short Wave Editor, and brought the first of a

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series of articles on high frequency reception. Seems as if I've heard that name someplace!

March 1933 saw the continuation of an argument about a game of cricket, and on overwhelming evidence from listeners it appeared that American DXers had been successful in the first "mass reception" of a trans-Atlantic BCB station. Poste Parisien was the broadcaster heard and included among the listeners who reported it were Bill Vornkahl, Robert Hough, R. R. Rawstron, E. F. Goss, and Earl Roberts, all of whom are more or less active DXers today.

Other pertinent patter from the March 1933 RADEX included:

Confirmation by L. F. Stetson, of Chicago, and P. O. Seiser, Bridgeport, Conn., that KZRM actually will verify, as witnessed by their own cards.



Julie Gibson, warbler on Joe Penner's program, was widely known in Hollywood before coming to the Columbia network. She sang many times from Hollywood radio stations, but the Penner show is her first major radio engagement. She replaced Joy Hodges, whose stage commitments in the new musical comedy, "I'd Rather Be Right," forced her to leave radio for a time.

Ridicule by the editor of the theory that two low-powered Cubans could cause a bad heterodyne on WTAM.

Advise from Richard D. Caddell, Vancouver, B. C., that a wire strung into the ocean made the best aerial he ever tried.

Richard M. Carter, Ann Arbor, Mich., reported the same EQ7 and EW7 which were mentioned in this column several issues back, and great was the conjecture about their identity.

Court battles to keep from being forced off the air by the old FRC were being fought by KFH, KGEF, KGMP, WBAK, WHP, WIBO, WJKS, WLOE, WMCA, WNJ, WNYC, WOQ, WPCH and WERE.

Reception of two outlaw stations was reported—DNTX, Denton, Tex., by Burney McClurkan, that city, and WJM, Massillon, Ohio, by Miss Lilian M. Bethel, also of Massillon.

Further reception of European BCB stations was reported by Robert Hough, New Rochelle, N. Y., who heard the German stations at Dresden and Frankfurt-am-Main, and by Earl Roberts, Cambridge, Ohio, who logged Heilsburg.

Reception of 14 Japanese stations in one night was reported by H. N. Delmonico, Vancouver, B. C., and he classified them as "nuisances."

Reception of TA's by members of the Atlantic Radio Club was reported by Henry P. Allen, Philadelphia, and schedules given for Praha, Langenburg, Stuttgart, Barcelona, Hamburg, Gleiwitz, Heilsburg, Horby, Leipzig, Trieste and Nuremberg.

Bill Vornkahl, Westport, Conn., reported a verification from the Trieste, Italy, station on 1311 keys.

The month's changes in station data advised of the deletion of TGW, WKBS and WCMA; a change in call of WTSL to WAML; increases in power for KFDY, WEAO, WFBC and WJBK; re-instatement of WERE and

WNJ; and one new station, WKEU, LaGrange, Ga.

And such was the world of radio, as reported in the March 1933 issue of RADEX. Seems only yesterday, doesn't it?

Reception Picking Up

For the past couple of years, we've heard a lot about sunspots. We've been told that there is an 11-year cycle of these hickies and that reception is supposed to be hampered when the cycle approaches its maximum. According to the scientists, the next maxima is due next year and reception on the broadcast band should hit a new low.

For a time, it looked as though this theory was the real McCoy. The 1935-36 and 1936-37 seasons were nothing to brag about. Static seemed to be heavier than in previous seasons, while signals appeared to have lost carrying power. All in all, DXers were rather glum when they considered the prospects for the next few years.

But it seems to me that much of the wailing that reception isn't like the good old days, is due in part to the psychological reaction to all these predictions of DX disaster. Listeners were led to believe that they couldn't hear stations more than a thousand or so miles away, and so they lapped up this pessimistic propaganda and quit trying. A lot of them wouldn't have been able to hear a trans-oceanic catch if it had been pushed down their lead-in. They simply decided that there wasn't going to be any good reception for a few years and stopped trying.

However, experience during the past couple of months has failed to bear out the glum predictions. During November, when tests were being made on that swell Super Sky-rider, a number of Europeans were

heard with fairly decent results. West Coast stations showed up in Philadelphia with really excellent strength, and even the little 100-watters crossed the continent with something to spare.

December found reception picking up at a very satisfactory rate. One morning in particular, no less than 13 Europeans were logged between 2:30 and 3:15 and it was an odds-on bet that others would have been heard had there been time. The French stations at Fecamp, Rennes and Bordeaux showed particularly strong signals, the best that I ever heard from across the big ditch, while the fanfare from Poste Parisien was a sound for sore ears.

During the sleet and snow storms the latter part of December, reception reached a peak which was at least the equal of any other period during the past decade. Home in Akron, Ohio, for a couple of weeks of vacation, it was possible to compare reception with that of other years. And you can bet your bottom dollar that it didn't suffer by comparison.

Exceptionally strong were the Pacific Coast stations. For the first time in three or four years, it was possible to tune in stations like KFI, KNX, KPO and KGO and really enjoy the programs. Signals were a good R7-8, fading wasn't noticed at all, and a person had reason to believe that he was tuned to semi-locals a few hundred miles away.

Even the little 100-watters showed good R5 signals. KGFJ pushed its way into the clear on the 1200 channel, KERN made a monkey out of WABY on 1370, and even WJBK had a losing battle with KVOE and KDB on 1500. Little CJAT made one of its rare appearances in those parts, while CKOV showed a healthy signal on 630.

From the South, stations really did themselves proud. LS2 was

heard pushing WOAI off the 1190 channel on many occasions during the early evening, and LR5 gave KOA plenty of competition. Little TIPG stuck its nose out between the domestic stations on 620 and 630, and really went to town. The usual mumble on 1120 frequently was just a background noise for YV1RF down in Venezuela. Of course, the Cubans and Mexicans could be heard all over the dial.

Plenty of good DX was heard during those two weeks in Ohio, as well as during the balance of December and January. The new CHLN, at Three Rivers, Que., showed an excellent signal on December 24th, while CJBR, Rimouski, Que., came in very well on December 30th. Among the newer United States stations to be heard were KVOX, WGRM, WOLS, WRNL and WSAL. The new KWNO, Winona, Minn., was heard several times testing on 1200 and poor, old WIL didn't have a chance. WLAW, Lawrence, Mass., showed a healthy wallop during its final test on December 18th.

Everything considered, the current season has proved to be as good as any during the past seven years. Perhaps the static is a bit heavier on occasions, but the increased power of many stations more than compensates for that. And the frequent appearance of the so-called "ideal DX mornings" finds reception good enough for the average listener to go out and log many distance catches.

In the light of my own experience during the past couple of months, it seems likely that a lot of listeners have been paying too much attention to prognostications and too little attention to actual dial twisting. If the DXer will forget about the sunspots and give his fingers a little exercise, the chances are that he'll hear a lot of new stations.

Scanning the AMATEUR BANDS

● ● ● By B. L. Ahman, Jr.

Did someone ask "What are they hearing in other countries?" In response to this question comes a very interesting letter from T. E. Plewman, who writes all the way from West China. The place is Chengtu, near the Tibetan border, and Mr. Plewman gives us the latest dope on what the DXer in West China hears, to wit:

"In the October issue of RADEX you asked if any amateurs are getting any stations in Paraguay. I am located away up on the border of Tibet, in western China, and have been surprised at the number of Chilean, Argentine and other South American stations that can be picked up. For instance, last winter I heard CE1AH, Mrs. Ida Fish, Chuquicamata, Chile, night after night talking to Australian amateurs. CE1AO was also heard frequently. LU6KE, Tucuman, Argentina, comes through about R9, fairly deafening. On Sept. 24th, at 5:15 p.m. local time, I heard ZP2AC (Pennsylvania, two, America, Canada) calling CQ twenty meter band, and located, he said, in Asuncion, Paraguay. If I can get him on the Tibetan border, surely he ought to be audible at some time in the USA. On Sept. 28th, at 5:10 p.m., I heard CX3BL, Montevideo, Uruguay, talking to an Australian. Neither of these countries had I heard before. I have written to a couple of Argentine amateurs and two in Chile, but none of them have deigned to answer my report, so do not intend to waste more postage. I thought that because of my unusual location they might reply, and I would like to have a few South American veries, but thus far have got only

HK1Z, Colombia.

"Being from Canada, I was particularly anxious to get Canadian amateurs, but have heard only three or four and have received only one card, that being from a Lethbridge ham, VE4EO.

"It seems to me as if long range is more easily attained on a diagonal across the earth's surface, for I can produce a dozen South American loggings for one Canadian.

"Owing to the fighting in Shanghai, and the hurried evacuation of many women and children to Hong Kong and Manila, hundreds of husbands, etc. tried to contact Manila through the agency of Shanghai and Manila amateurs, and we heard XU8MC, Shanghai, on the air every night for some time. But he seems to have exhausted himself, for he has not been heard lately. KA1ME and KA1BH, both in Manila, helped out in this refugee problem, and sent lots of messages from the evacuated womenfolks to their men still holding the fort in Shanghai. XU8JR is another Shanghai amateur who was on often. Once or twice I heard this latter deftly parrying some too-curious amateurs who were trying to get a scoop for American newspapers by pumping him in respect to the war news. He referred them to the regular news broadcasts from Shanghai and declined to comment further.

"A frequently-heard amateur is KA1YL, which is located on the yacht "Latitude," with headquarters at Manila. On October 10th at 5:50 a.m. EST, I heard him calling CQ, and he said he was on the China Sea, bound for Manila."

Many, many thanks, Mr. Plewman, for that very interesting report. We wish that many more foreign correspondents would write us their experiences.

"My favorite (and only) band is 20-meter 'phone. I cannot read code fast enough yet so I am in

the dark as far as CW goes, but I have heard 86 countries on 'phone on my Emerson U6A," boasts John Quinterell, Jr., 445 Carmody Road, Seat Pleasant, Md. "QSL cards which I have already received are from PAOUN, SM7YA, CN8AM, G5JO, K4SA, YV5AA, PAOMQ, K6NZQ, CN8MU (only 4 watts input!), I1TKO, NY2AE, K5AB, K4ENY, SV1NK, VP9R, F3JD, XE1LK, OQ5AA, ZK1AA, HH2LD, HR5C, VP3THE, VO6D, VO1Y and ZB1E.

"I received the ZK1AA card on January 10, and Mr. Fahey, the operator, said that it was the first report on his 'phone signals that he had received from North America. He has never worked a W- ham, although he has worked K6- and HC1FG. I prize this veri very much (no pun intended). The ZB1E card arrived the next day. He is on the LF end of the band with only 30 watts input, enough to cross the Atlantic.

"I understand that HH5PA never QSL's, neither to hams or SWL's.

"Some of the calls I have heard are given below:

CE: 1AI, 1AO, 3CO, CN: 8AJ, SMB, CT: 1AY, 1QZ, 1QP, 2AB, CX: 2AR, 2 CY, EA9AH, EI2J, ES5B, ES5D, FB8AB, FI8AC, FM8AD, FR8UX, FY8E, F3OO, F8QD, F8XT, GI2CC, GM5W, G: 2PU, 5ML, 6JF, HA: 4A, 8N, HH5PA, HI: 1C, 2K, 3N, HK3JA, HP1A, I1IT, J2MI, J2NG, K: 4FAY, 6BHL, 6CNC, 7PQ, LA: 1G, 5N, LU: 1QA, 4CZ, 9BV, OA4C, OQ5AE, OX2QY, PAOQN PY2AC, SP1DC, SPIHH, SU1CH, SU1SG, VO1J, VO2Z, VP: 2AT, 2DA, 6TR, VQ1AJ, VQ4CRE, VS: 2AK, 7GJ, VU2CQ, XU2HL, YL2BB, YN2LG, YR5AP, YR5DY, YT7CI, YT7VN, YU7XX, ZE1JR and ZS1B."

A Labrador QSL

A prized QSL was received by us recently, from VO6D, "The Voice

of Six Ducks." This is our first Labrador ham, and, needless to say, we didn't write to Labrador for it. The address is Thomas C. Cunningham, VE2JK, 5528 Ponsard Ave., N. D. G., Montreal, P. Q. Mr. M. E. Smith of Cleveland tells us that verifications of this station can be received from Dorothy T. Hall, 186-18 Williamson Ave., Springfield, N. Y. Mr. Smith also asks for information on ZP2AC, so he's not the only one trying to get Paraguay; we know now that Paraguay is heard in West China so that ought to be some help to us.

We understand that Dual Diversity Communications receivers are going to be available about the first of June. Who is going to put it on the market? We'll have to wait to find that out.

Well, so long until next month. Let us have more ham data, please. And how about something from a DXer on the Sahara desert?

Addresses

We list below the call letters, the frequency and the address when known of every amateur station mentioned in these columns. Addresses will not be repeated, however, so readers are urged to keep these columns for future reference.

(The letters LF, MF and HF in parentheses following the call letters of stations mentioned in this column indicate the Low Frequency, Middle Frequency and High Frequency portions of the 20 meter amateur band. Low Frequency stations are those on frequencies between 14,000 and 14,100. Middle Frequencies are from 14,100 through 14,300. High Frequencies are from 14,300 through 14,400. No attempt is made to show exact frequencies as they vary so greatly.)

CE1AH, Mrs. Ida Fish, Chuquicamata, Chile.
 CE1AO, Harry Brunelle, Poblacion Chile Exploration, Tocophila, Chile.
 CN8AM, Andre Peres, Casablanca, Morocco.
 CX3BL, Roberto Musso Ambroni, Cerro Largo 1344, Montevideo,

Uruguay.

F3JD, Lucien Champonnois, Soulignonnes (Char-Inf), France.
 HK1Z, Antonio J. Restrepo, Box 200, Cali, Colombia.
 KA1BH, Mrs. Joseph Reich, 2 Escolastica, Pasay, Rizal, P. I.
 K4ENY, Lt. W. A. Smith, VO Squadron 9m, Fleet Marine Base, Charlotte Amalie, V. I.
 LU6KE, Eduardo E. Idigoras, Buenos Aires 133, Tucuman, Argentina.
 OQ5AA, Dr. G. Westcott, Tondo, via Irebu, Belgian Congo.
 SM7YA, R. Christiansson, Fredsgatan 11, Vaxjo, Sweden. (LF).
 VE2JK, Tommy Cunningham, 5228 Ponsard Ave., Montreal, P. Q.
 VE4EO, W. R. Savage, 514—12th St., C. North, Lethbridge, Alta.
 VO6D, Tommy Cunningham, address reports to VE2JK. (MF).
 XE1LK, Aurora de Franco, Av. de la Paz, 1125, Guadalajara, Jal.
 ZK1AA, J. D. S. Fahey, Radio Station ZKR, Raratonga, Cook Islands.

The SWL Trading Post

Baker Young of Parma, Idaho, wishes to trade SWL cards and photos.

William Anderman, Jr., 5913 N. Camac St., Philadelphia, Pa. Exchange SWL cards.

Merton M. Hiatt, Box 7, Dryden, Wash. Exchange SWL cards.

John Quintrell, Jr., 445 Carmody Road, Seat Pleasant, Md. Exc. correspondence and SWL cards.

Charles Genan, 205 Barrett St., Jamestown, N. Y. Exc. correspondence.

Virgil Oliver, 620 N. 20th St., Mattoon, Ill., a radio and television student. Exc. correspondence.

A Radio Tour with ZENITH

● ● ● By B. FRANCIS DASHIELL

ALARGE and popular line of radio receivers is being offered for 1938 by the Zenith Radio Corporation, one of America's oldest and best known manufacturers. Recent production and sales have pushed this concern up toward the top so that now it is one of the very few leaders in the industry. Their new receivers for 1938 are outstanding examples of the radio engineer's and cabinet maker's skill.

Zenith's radio receivers for this year are assembled in an unusually large total of 63 different models. This array provides radio sets to meet all requirements and budgets. Sixteen chassis utilize 4, 5, 6, 7, 9, 12, 15 and 25 tubes, all in superheterodyne circuits. Zenith also manufactures its own "Metaglas" tubes and these are used throughout the Zenith line. While these tubes have counterparts in glass and metal tubes, the latter are not recommended or used.

Electric Tuning

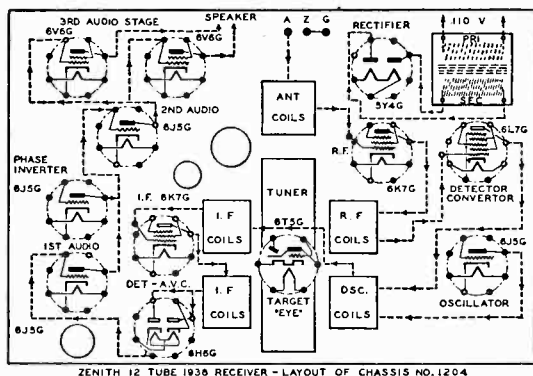
One of the outstanding features that has attracted most radio critics to the new Zenith is its robot dial or electric automatic tuner. By simply pressing the self-starter an electric motor is made to spin the needle across the dial to any station in just a second or two. There is no sound between stations, yet instant response is obtained as soon as the motor stops at the station selected. A between-station silencer eliminates objectional noise when tuning the dial. The final, or fine tuning, adjustment is almost instantly accomplished by a slow-motion knob as soon as the robot motor knob is released. The motor itself requires no attention except oil twice a year.

One of the most popular models of the 1938 series is known as chassis 1204. This is a twelve-tube circuit which is furnished in seven cabinet models, including console, armchair and table types. Model 12S265, illustrated and described in this article, was given a severe test over a period of three months. In every way the results were very gratifying.

A Popular Set

Our diagram shows the layout of the chassis, as we look down from the top. The tubes shown are connected by the heavy dotted lines which indicate the direction of "flow" of the incoming radio signal during its swift passage to the loud speaker. At the rear of the chassis is the antenna connector strip. Any ordinary wire antenna, of from 30 to 60 feet in length, is connected at "A". When the Zenith special doublet is used, as recommended, the jumper strip that connects "Z" and "G" is removed, and the antenna leadin connected to "A" and "Z". During our tests a single-wire antenna as well as the Zenith doublet, with and without grounds in both cases, were used. The Zenith doublet, without ground, gave best results, and eliminated practically all static from the heavy automobile traffic about 100 feet away.

We see how the incoming signal passes from the connection "A" into the antenna tuning system. It enters the radio-frequency tube, a type 6K7G, and then flows through the radio-frequency transformer and amplifying circuit into the first-detector or converter tube, a type 6L7G. The signal mixes with a locally generated current created by the type



6J5G oscillator tube. This converted signal, now changed to the intermediate frequency of this set, or 456 kilocycles, enters the first i-f transformer. Here it is tuned and further amplified, and then passed on to the 6K7G i-f tube.

Three Audio Stages

After the second i-f transformer and tuning circuit is passed the signal reaches the second detector or 6H6G tube. It acts also as the automatic volume control tube. The demodulated signal, now vibrating at audio frequencies, is passed from the detector to the powerful audio amplifying circuit of three stages. The first audio tube is a type 6J5G. Similar tubes are used in the second audio stages and as a phase changer or inverter. This latter tube is quite necessary, although all receivers do not have them, in order to supply a push-pull action to the final or third audio stage, since there is no push-pull audio transformer in this circuit. The Zenith arrangement of resistance-coupled amplification gives tremendous power but always with excellent tone and absence of any distortion. Two type 6V6G tubes are used in the output stage, and provide 15 watts of smooth power. The rectifier is a type 5Y4G, and the current consumption of the receiver is 110 watts.

An electric target tuning device, a type 6T5 tube, enables one accurately and quickly to tune in on any station. When no signal is tuned in only a thin ring of green light is seen encircling the target eye. Then, as a station is tuned in, this ring widens and contracts toward the center, with the degree of movement depending upon the intensity of the signal. Greatest resonance to the signal is indicated by the greatest amount of contraction toward the center.

Three Wave Bands

Tuning is divided into three bands in this receiver. Three separate dials automatically jump into place, one at a time, when the band switch is pressed with the finger. These dials are full size and are easily read by the indirect lighting system. They are marked (1) Standard Broadcast; (2) Foreign; (3) Police. The first covers a range from 540 to 1753 kilocycles; the third from 5.5 to 18.4 megacycles; and the second from 1.8 to 5.9 megacycles. Foreign, or middle dial, the most used except the broadcast or first dial, brings in domestic and foreign short-wave stations. Police, the third band, gives police, amateur, aviation and ship calls. All bands are marked to indicate the portions of the scale where short-wave entertainment may be

heard. The intermediate portions, where International Morse (wireless) code is heard, but which we cannot avoid in the radio spectrum, are of interest only to those who can read the code.

The twelve inch speaker provides a tremendous amount of sound, all of which can seldom be used. The manual control is smooth working and absolutely noiseless. Tone is changed through five positions of a knob and indicators that point to—Voice, Normal, Hi Fidelity, Bass and Foreign. The Foreign setting is excellent on short-wave and distant reception. An interesting and valuable device is the acoustic adapter that provides personal adjustment of the speaker. This bell-like cover can be moved in or out over the speaker so as to counteract unusual acoustic conditions that may be present in different sized rooms.

Local And Distance

There is little to be said of the operation of this set on the standard broadcast band. It does everything that can be expected, but the mellowness and faithful reproduction of tone is something that can be appreciated by music lovers. Local stations are heard without interfering noises and distant stations, tuned in by switching on the distance switch, can be heard from all parts of the country, and other American lands, with very little tube and amplification noises. Of course, when we realize that about 700 broadcast stations are operating in a band that has room for less than 100, it is normal to hear more than one station at a time on many sections of the dial. On the 20 clear channels, however, the stations came in as loud and clear as a local—often with the “local” switch turned on.

On the Foreign or short-wave band, which ranges from 15 to 50 meters, or 5.5 to 18.4 megacycles, many stations were easily and clear-

ly tuned in. To the south, where many Latins operate, the more or less familiar stations were heard, such as the countries of: Ecuador, Colombia, Mexico, Brazil, Peru, Venezuela, Guiana, Argentina, Costa Rica and Guatemala. These were heard, together with many of their calls, as well as a number of unknown stations. Unfortunately for DXing, the Latin peoples have a bad habit of speaking very rapidly, and those of us who barely understand some Spanish fail to get many of the announcements.

Many From Europe

The Europeans do better—at least most of them talk slowly. The English stations of the “GS” series, at Daventry, in the 15, 11 and 9 megacycles groups, all come in with such volume that it was never turned more than half-way up. The broadcasts in the 9 megacycles portion of the band, however, is heard easily at any time it is on the air. The “RO” stations at Rome, Italy, come in almost equally as well as London, and reception of them is consistent with other foreign reception. On several occasions the League of Nations station, at Geneva, was heard with remarkable clearness. Those delightful programs and talks from Huizen, Holland,—the “PC” transmissions—frequently delayed the search of others. Prague, in Czechoslovakia, was picked up nicely whenever it was on the air. Then came Moscow on several occasions, Paris and Pontoise, France, Budapest, Warsaw (once), and several others, but not with much volume or understandable language. Berlin and Zeesen, Germany, provided much entertainment and consistent reception at great volume. The “DJ” stations are found on a number of points on the dial.

No attempt was made at Oceanic reception—the “Aussies”. Such ear-
(Please turn to page 95)

With the Station Hunters

● ● ● By CARLETON LORD

MUCH in the manner of Rudyard Kipling's *Recessional*, the hullabaloo of the monitored verie question appears to be on the decline. The tumult and the shouting have died to mere whispers, while the critics and their followers have departed from the public eye.

Still standing is the ideal of service for listeners which was decried, but it remains just an ideal for which a few sacrificed their time and efforts. Still unsettled is the entire question, yet there remains not a single follower of either side to bear one standard or the other.

Last month it was reported in these columns that the verification of the Daventry, short wave stations had been discontinued by Carroll Weyrich and Barney Ahman. In announcing this decision, they felt that their service had caused enough commotion and, rather than further antagonize DXers, they decided to drop the whole matter.

More recently, there comes word from Stanley B. LaRue that, in view of the fact that ZBW had once more commenced to verify, his monitoring of that station would be discontinued. It is reported that ZBW's decision resulted from a rapid decline of reports.

Although discontinued for entirely different reasons, the cessation of the two monitoring services brings a rather abrupt end to the criticism aimed in their direction. To the best of our knowledge, there exists no other similar service in the world of radio. Thus, the discussion must eventually come to a logical conclusion.

However, even though the monitored veries have stopped for the

present, it must not be construed that opponents of the practice can claim a decisive victory. The Daventry cards were discontinued in order to eliminate cause for further friction, although Messrs. Weyrich and Ahman still favored the idea and were supported by many DXers throughout the country. The Beverly Hills ZBW veries ceased simply because there was no further need for them.

Judging by the letters of comment which have been received, listeners appear to be divided into three groups. At both extremes are small groups, one condemning the practice in theory, the other as actively supporting it. In between is by far the largest group, which feels that the matter is one for the individual listener to decide.

It is true that the latter group is divided in its opinion as to whether its individual members would care to collect monitored veries. Perhaps a small majority would prefer to stick to veries which come direct from the stations, but they do not attempt to condemn the practice so long as it pleases some listeners. Neither, in fact, do they see any particular harm resulting from monitoring services, so long as no dishonesty or flagrant abuses exist. And to date there has been absolutely no evidence against either of the two services in question.

Looking back over a long list of charges and counter-charges, we remember one claim to the effect that if DXers shoulder the responsibility of issuing veries, then other stations will ask to be relieved of the task of verifying. If any such result has come about to date, we haven't heard of it. We have, how-



Charlie McCarthy's girl friend, Dorothy Lamour, once ran an elevator in a Chicago department store for a living. A native of New Orleans, she caught the eye and ear of Herbie Kay, band leader. Miss Lamour is now considered one of the most glamorous of Hollywood's glamor girls.

ever, heard of one station which is supposed to have resumed verifying when reports fell off.

And so that about winds up the question of monitored veries. With the two services in question no longer in existence and no further releases from the GHQ's of the opposing forces, perhaps it would be just as well to devote further space to other matters.

An Extra Special Program

The first DX program ever attempted by XEDF of Nuevo Laredo has been arranged by A. J. Parfitt, president of the National Radio Club. This hundred watter on 810 kcs. will broadcast from 2 to 4 am, EST, on the morning of March 12, which happens to be a Saturday, and will dedicate the program to RADEX, the National Radio Club, the Universal DX Club and Radio News. XEDF is owned and man-

aged by 18-year old Ruperto Villareal, who also acts as Chief Announcer. Reports will be verified for an International Reply Coupon.

Reports and Tips

With the mid-winter months already at hand, reports seem to show that DX is staging a great comeback. While there is no indication of the superlative reception of 1931-34, it appears that many listeners are reaching out farther and more often than during the past couple of seasons.

"DX is swell on the broadcast band," gloats Bernard L. Ahman, Jr., 3313 Westerwald Ave., Baltimore, Md. So far this season I have heard YV5RA, YV5RQ, YV1RF, CMCB, CMCQ, CMCK, CMBY, CMW, CMBC, CMCM, LS2, LR5 TILS, TIPG, CMBG, CMK, CMCW, TGW, XEW, XERA, XEPN, XEAW, XELO, CMCY, CMCD, and what I think is LR4. The latter fades very badly at times. Several other Spanish-speaking stations have been heard on various frequencies, but are not yet identified. My receiver is still the 1936 12-tube Zenith."

This looks like mutiny on the amateurs, Barney!

"I am a new reader of RADEX," admits Maurice Burleigh, 3525 Lyon Ave., Oakland, Calif., "and I hardly believed what I read about listeners getting foreign reception on the broadcast band. Anyhow, I decided to give it a try and was amazed to find that carriers could be heard on nearly every channel. I've heard the Australian 2NR start coming in at 1:00 a.m., PST, and get better and better until WLW pushes it off the channel at 2:45. Also have heard pretty fair signals from what I took to be a Russian station on 540 keys, as well as what appeared to be a Hungarian transmitter on 546 keys. Do you have any idea what stations these were?"

The Russian on 540 probably is RW54 at Khabarovsk, while the one on 546 sounds as though it might be Budapest No. 1. Eastern listeners frequently report the latter, although we seldom hear of it reaching as far West as California.

"It has been a long time since I have done any DXing," admits H. H. Searles, 159 Spruce Ave., Rochester, N. Y. "It was March 1936 when I stopped activity. Just lately, however, I have gotten back into harness. Once the DX bug bites you, I guess you just have to stay bitten.

"At present my log stands at 651 heard and 542 verified. Some of my best catches are LR1, LR4, LR5, LS2, CPX, CP4, KWG, Poste Parisienne, Radio Normandie, TGW, HHK, XEFJ, VONF, CT1GL, YV1RC and YV3BC, all verified."

With a list of foreigners like that, a lot of DXers we know would be glad to feel the bite of the old bug. Nice going, Mr. Searles, glad to hear from you again!

Latest additions to the log of Martin J. Olthoff, 212 N. 16th St., Independence, Kans., include a new station on 1370 at Villa Acuna, Coah., XEDH, heard on December 13th at 3 a.m.; KRE, Berkeley, Calif.; KROY, Sacramento, Calif., on a frequency check at 6:10 on December 13th; KSRO, Santa Rosa, Calif., also on a frequency check at 6:30 the same morning; WMAS, KOOS and WCAX. These additions bring Martin's total on the broadcast band up to 682.

Changes and Reports

"I have noticed a lot of change among the Cubans," observes Clifford Drain, 617 Camden St., Parkersburg, W. Va. "CMCB is on 1230, not 640; CMK on 720, not 730; CMBL on 750, not on 710 as they were some time ago; CMCW is on 1140, not 750; CMJW (a new one?) is on 1340 and gave their address as Box 92, Camaguey, Cuba. CMKG,

Santiago, Cuba, is on 1135 and request reports be sent to Box 157, that city. Have noticed that TGW is on 1240-45, not the 1210 which they still list.

Additional news from Cuba indicates that a new Havana station, CMBQ, will begin operation shortly on 680 kcys, with 5 KW power. CMBF, 770 kcys, 10 KW, is another new Havana broadcaster. CMCB, heretofore listed on 640 kcys, is broadcasting on 1230 kcys. CMCF, 810 kcys, 5 KW, is no longer relayed by COCO on short waves, and is now tied up with COCH on 9.428 megs. COCO, 6.010 megs, now relays CMCK on 1030. As the result of the recent radio conference in Havana, many new Cuban changes are expected in the near future.

"Have been hearing XEXM, Mexico City, 1280 kcys, in early mornings, despite heavy interference from KLS. A weak signal on 810 makes me wonder if I am hearing XEDF. Another unidentified Spanish-speaking station has been heard on 580 kcys. Could this be XEMU?

"On Christmas morning, I heard TIX, San Jose, Costa Rica, from 2 to 5:30 a.m., EST. This may be the mystery station about which a reader inquired in the January issue. (John T. Crabtree asking about weak station on 650 kcys.) They sure put in a strong signal and quite frequently announced in English. Another Costa Rican station heard the same morning was TILS, San Jose, on about 882. They also announced in English quite often.

"Otherwise, DXing has been none too good. The only TP's heard have been 1YA and 4YA. So far no Europeans have come in, although there is still a little time for them. KHBC, Hilo, Hawaii, has been coming in better than KGU and KGMB. Still hear LR1, LR5 and LR6 once in a while. ZNS, the Nassau, Bahamas, station, comes in here R7 with swell signals.

"And now for a couple of queries of my own. Can anyone identify Spanish-speaking stations on 775 and 875 keys? Would surely appreciate a tip on who they are!"

Another solution to John T. Crabtree's request for help in identifying his station on 650 keys, comes from Harry Knight, 114 Ross St., Duquesne, Pa. "The station on 650 is WWSW of Pittsburgh," he writes. "I had the same trouble until I changed the alignment of my receiver. Never hear them now!"

Quite a novelty, this getting two answers for a question! Looks like you pays your money (a quarter for RADEX) and takes your choice!

And More Changes

"Station XGZ, Nanking, China, is listed on 660 keys, with 10 KW along with XGOA, 75 KW," advises Alan I. Breen, 68 Pine Hill Terrace, Dunedin, NE 1, N. Z., "but no schedules have been released. Perhaps they both are off the air now."

A couple of other Eastern targets for Western listeners are noted by Mr. Breen. KZIB is a 1000-watt station at Manila, P. I., on 900 keys, and ZHL at Singapore operates on 1332 keys, with 2000 watts. Both stations are reported to have short wave relays.

"KGHF, Pueblo, Colo., has a different schedule from the one listed in RADEX," corrects A. J. Tait, Jr., 225 Jackson St., that city. "They come on the air at 9 a.m., EST, and do not sign off until 1 a.m. the next morning."

"In your November issue," reminds Morton Raff, 245 Cedar Ave., Highland Park, Ill., "you stated that CKY had changed frequency from 910 to 760 keys, and have so listed it ever since. On December 25th I heard them on 910, so wrote the station. They replied that they had not received authority to move from 910."

"Here are a couple of frequency

check schedules which you did not include in the January issue," offers Baker Young, Parma, Idaho. "KSRO, Santa Rosa, Calif., tests from 6:20 to 6:40 a.m., EST, on the second Monday, while KHUB, Watsonville, Calif., tests from 6:00 to 6:20 a.m., EST, the same day."

"Of the stations which are listed with a 'z' in your December indices," informs A. W. Field, Box 91, Hillcrest Sta., San Diego, Calif., "the following have verified for me for three-cents return postage: KYOS on 1040, KVCV on 1200, KSUN on 1200, KSUB on 1310, WEOA on 1370, WSAU on 1370, KRLH on 1420, and KNET on 1420. Incidentally, KIT at Yakima, Wash., which you have been listing on 1310, has been on 1250 since November 6th, according to a verie just received."

"KWKH, Shreveport, La., verifies if the report is sent to P. O. Box 17 and is accompanied by three-cents return postage," postcards C. Roman, 1907 N. Kedzie Blvd., Chicago, Ill. "KOCA, Kilgore, Texas, also verified for return postage."

"Our new KELA in Centralia is now on daily on 1440," states Anthony C. Tarr, 909 W. Lee St., Seattle, Wash., "but they have not answered my report. A new Canadian, CFGP, announcing their location as Grand Prairie (presumably in Alberta), was heard on 1200 working duplex with CJCA, Edmonton, on 730. This is something I have never heard before on the broadcast band."

Our thanks again to readers who continue to send in tips and reports which enable us to keep our indices up to date. Without the assistance of listeners, it would indeed be difficult, if not impossible, to keep pace with the ever-changing broadcast spectrum.

As the season progresses, increasing reports indicate that stations to the South are being heard regular-

ly. New flea-power transmitters in Costa Rica and other Central American countries are constantly appearing. South Americans frequently break through the domestic barrage, while the Cubans and Mexicans are daily visitors. But since most listeners have difficulty in identifying Spanish-speaking stations, may we ask readers to make a point to forward all information which they may possess about call, location and frequency? It will help us do a better job keeping other readers informed of just what is what in radio land.

RADEX Dedications

Raymond W. Sahlbach, 4708 A S. Compton St., St. Louis, Mo., advises of further special and frequency check dedications which he has arranged for RADEXers:

- March 1st**
4:00-4:30 WPAJ 1370 Portsmouth, Ohio
- March 3rd**
1:00-2:00 WAGA 1450 Atlanta, Ga.
- March 5th**
4:10-4:30 WTNJ 1280 Trenton, N. J.
- March 8th**
5:20-5:40 KFJI 1210 Klamath Falls, Ore.
5:30-5:50 KIDW 1420 Lamar, Colo.
5:50-6:10 KORE 1420 Eugene, Ore.
- March 10th**
3:30-3:50 WSAJ 1310 Grove City, Pa.
5:10-5:30 WWAJ 1200 Hammond, Ind.
- March 11th**
4:20-4:40 WMFG 1210 Hibbing, Minn.
5:00-5:20 WEBQ 1210 Harrisburg, Ill.
- March 12th**
3:10-3:30 KWYO 1370 Sheridan, Wyo.
3:20-3:40 WNEL 1290 San Juan, P. R.
3:40-4:00 WFOR 1370 Hattiesburg, Miss.
4:30-4:50 KUJ 1370 Walla Walla, Wash.
4:40-5:00 WGTM 1310 Wilson, N. C.
5:00-5:20 KIT 1250 Yakima, Wash.
- March 14th**
4:00-4:20 WAGF 1370 Dothan, Ala.
4:50-5:10 WLAK 1310 Lakeland, Fla.
5:40-6:00 KGMB 1320 Honolulu, T. H.
- March 26th**
3:00 on KWSC 1220 Pullman, Wash.
- All times are a.m., Eastern Standard.*

Too late for inclusion in the proper issue came word that WAYX, Waycross, Ga., dedicated its frequency check of January 12th to RADEXers. It is trusted that readers will make a point of listening to these dedicatory programs and sending in the customary thank-you card or letter.

Experimental Calls

"One of these days," says E. M. Vickers, Box 121, Coral Gables, Fla., "I'd like to hear a special program from little WBZA when WBZ is silent. That would be a nice one to log and verify. Another would be WBOQ. Understand that WABC used to test with that call, as did KDKA with W8XAR, and would like a chance to log them."

There's a tip for you CPCers! "Thank goodness," applauds Paul Sampson, 1820 College Ave., Regina, Sask., "that the CPC's of the various clubs have come to realize that the average DXer is sick and tired of all the quantity stuff, and not enough quality. It is really too bad that this wasn't done before, so the stations would be more ready to DX. It has been said that DXers should write to the stations which dedicate programs to their club, but the way it was going a person would have to spend quite a sum on postage alone."

"Since using all the tips given in the November RADEX," writes Harold E. Pound, 418 Walnut St., Lawrenceburg, Ind., "by Arthur J. Parfitt in his article 'Verification Insurance,' my brother and I have received many veries. In fact, the German stations sent cards to both of us, as we usually listen in together. From our experience, we think the most important thing in writing for veries is to get the reports as accurate as possible."

We second that motion, Harold. If every DXer was as conscientious in making up his reports as he is in crying foul when a station doesn't verify, we are sure that his batting average would go up many, many points.

DXing for Two Months

"I am 15 years old," admits Lewis Hill, 2138 S. 16th Ave., Maywood, Ill., "and have been DXing about two months. My log shows a little

over 100 BCB stations and some of the better catches are KFVB, KFVD, KVOR, KGHF, WDAE, KNX and KPO. My receiver is a 7-tube Steinite. If anyone heard a South American on 1220 on December 21st, I would like to hear from them."

"As I write this," reports Robert Handforth, 117 Emerson Ave., Toronto, Ont., "my log stands at exactly 300 stations. I have received about 50 new ones since last September. My best catches are CMBC, CBR, KFKA, KFPY, KFSD, KFVB, KHJ KMMJ, KROC, WEXL, WLAP, KVOD, WMBR, CHNS and WJBW. I have completed the District of Columbia, West Virginia, Rhode Island and Illinois, and need but one more in Ohio and two in Indiana. However, there are still six states which I haven't heard. Try as hard as I can, I can't seem to get KOB, although I've heard KEX."

"I have been DXing actively for about three years," writes Donald C. Truax, 539 Woodlawn Ave., Aurora, Ill., "and the best varies include LS2 LR1, TGW, KHBC, WPRP and WNEL. The log at present contains 526 active stations, all of which have been logged since March 1935 when I purchased my present receiver, a 9-tube Lafayette super.

"Why are there so few foreign specials nowadays? I was checking over the DX calendar of two seasons ago, and found that 50 per cent of them were real DX stuff. Also, why not get specials from stations other than those on the FCC frequency checks?"

This is another problem which must be referred to the CPC boys. In fairness to these hard-working chaps, however, it must be noted that foreign stations are exceptionally difficult to line up for special programs. The Foreign Affairs Department of the IDA spends a

great deal of time trying for trans-oceanic specials, but uncertain reception conditions make it difficult to secure the proper co-operation.

Wants Old Receiver

"How I long for my old radio!" bemoans C. E. Sleichter, Rt. 6, Box 6355, Sacramento, Calif. "I fell for one of the new sets, and it is a failure on DX work. My old Kolster used to bring in a new station every 10 kilocycles along the dial, but no more. The two words, *sensitivity* and *selectivity*, are not used by manufacturers any more. Instead, they stress trick names for gadgets which don't mean a thing to the DXer."

Regusted With BCB DXing

"Up to my last report to you," writes George Nahas, 147 Seeley St., Brooklyn, N. Y., "my DXing had been confined to short wave reception. So last week I decided



Out in front of the array of talent in Horace Heidt's Brigadiers program is Lusbeth Hughes, soprano soloist. This program is broadcast over the Blue Network on Tuesdays from 9 to 9:30 pm

to give the broadcast band a whirl and prepared myself for a trip around the world, expecting to hear France, Germany, Argentina, Brazil, Hawaii, Alaska, Australia and, perhaps, Japan. Well, after about 30 hours of dial twisting, I found myself holding the bag with the following colossal, stupendous, rarely-heard catches: WQAM, KARK, KWNO, WTAW, WOLS, WDAE, WNEL, WLAK, KTEM, WFOR, WPAR, KFBK, KPAC, WOMI, KXYZ, XEFO, CMBY, KNX, KFI and KFVD.

"Holy Mackeral! If I only knew in the beginning that all I was going to hear was the above, plus twice as much static, I wouldn't have wasted all those sleepless nights. Static was so bad that turning the volume control on more than one-third would have started an Indian War, with the rest of the household coming down after my scalp.

"Yesterday afternoon I gave Mr. Grunow a chance to redeem himself. Between 1 and 3:30 p.m., EST, he proved that he had plenty of sensitivity and selectivity. Starting at the lower frequency end of the dial, I was able to log WGR, WFIL, WTAG, WICC, WIP, WHJB, WMAL, WGY, WTAR, WEEU, WGBI, WPEN, WRC, WBZ, KYW, WTIC, WTAM, WDEL, WHAM, WCAU, WIBX, WEST, WNAC, WFBR, WCAM, WDRC, WDAS, WJSV and WBRV, in addition to all the stations in and around New York.

"After I put earphones on the receiver, I expect much better results during the evening and early morning hours."

Completes First Year

"I commenced DXing just after midnight on January 1, 1937," recalls Richard Wright, 5762 Harper Ave., Chicago, Ill., "and completed my first year of this hobby on December 31st last. During that time, I logged 506 stations, with five in

Canada, 13 in Cuba, 5 in Mexico, three in Puerto Rico, and 24 in Canada. All of the states but Nevada have been heard, as well as all provinces but Nova Scotia, New Brunswick and Prince Edward Island. I have verified 174 stations, with 23 of these in foreign countries. I am interested in collecting a list of transmitter locations and would be glad to receive any information from other readers."

"In eight or nine years of DXing," offers Clarence Wakefield, Wiarnton, Ont., "I have logged 760 stations on the broadcast band. So far this season I have added about 35 new ones, mostly on the FCC tests. There are 53 Canadian stations on my log, most of them verified. Not many stations in the United States and Canada refuse to verify, although quite a few Cubans and Mexicans fail to reply to reports.

"Incidentally, I get a lot of cards from U. S. stations which have been returned for postage or which come through with one cent due. I guess a few people don't know that the regular penny card, which goes anywhere in the United States, must have an additional cent of postage before it comes into Canada."

"Veries from KELA and KGU have brought my total of stations heard to over the thousand mark," reports Alfred Razzando, RFD 1, Fayette City, Pa. "To date I have 37 in California, six in Oregon, 14 in Washington, one in Nevada, four in British Columbia and eight in Baja California—making a total of 71 veries from the Pacific Coast. Some of my best veries are IOBI, IOAK, IOBP, IOBQ, CKCK, VAS, CJLS, KGU, LXL, KFIO, KUJ, KVI, KXA, KWSC, KERN, KPMC, KGFJ, KRKO, KYOS, KLX, KWG, KQW, KFXM, HJB, CMC, XEN and XED. Have been hearing strangers on 800 or 810 and on 1100 keys, in the early morning hours, and would appreciate information as to their

identities. Also would like tips on the best time to hear stations in Alaska and Newfoundland."

We rather imagine that a lot of listeners throughout the United States would welcome tips on how to log those stations in Alaska and Newfoundland. Perhaps RADEXers may have some ideas.

Experimental DX Party

"I'd like to DX with a DXer from Virginia, Texas, Minnesota and Kansas from local midnight to 6 a.m. on Saturday, April 23rd," states Warren E. Winkley, Hughson, Calif. "The purpose of this would be to study DX conditions in the early Spring. Next season I want to try this every three months. The first DXer from those states to write me, will be chosen to take part in the experiment."

This is something new in the way of DX parties and we are sure that it should appeal to listeners in the states mentioned. While information concerning the exact procedure to be followed was not given, interested DXers may obtain this by writing to Mr. Winkley. Listeners in other parts of the country, who may wish to listen in on the morning of April 23rd, are invited to send their reports to us.

"I have just received a verification from KATE," contributes Leonard Woodall, Route 2, Plano, Texas, 'which gives some information about their station. They use a 250-watt Western Electric transmitter, microphones and speech equipment, and have a 242-foot Blaw Knox vertical radiator. Their regular schedule is from 7:30 a.m., EST, until local sunset. Their FCC frequency check is scheduled between 3 and 3:20 a.m., EST, on the second Friday of each month. According to the station, all correct reports accompanied by return postage will be verified."

Word from Washington indicates that the FCC is revising its fre-

quency check schedule and listeners may expect quite a radical change. As soon as a copy of the schedule is released, it will be published in RADEX.

Reception Helps

Judging from recent reports, stations to the South continue to break through the broadcast spectrum with considerable strength, and many DXers are finding it increasingly difficult to identify the Spanish-speaking broadcasters. The following list of stations more frequently heard was compiled by Carroll Weyrich and Earl Roberts of the Newark News Radio Club, and appeared in the January 10th NNRC bulletin:

570 CMCY Havana, Cuba
600 CMQ Havana, Cuba
625 TIPG San Jose, Costa Rica
630 CMCD Havana, Cuba
650 TIX San Jose, Costa Rica
720 CMK Havana, Cuba
755 CMBL Havana, Cuba
760 CMHX Cienfuegos, Cuba
810 CMCF Havana, Cuba
830 LR5 Buenos Aires, Arg.
850 CMCM Havana, Cuba
854 OAX4A Lima, Peru
880 CMW Havana, Cuba
882 YV5RQ Caracas, Venezuela
955 CMBC Havana, Cuba
960 YV5RA Caracas, Venezuela
970 CMBY Havana, Cuba
1000 CMBZ Havana, Cuba
1005 YV5RG Caracas, Venezuela
1030 CMCK Havana, Cuba
1070 CMBX Havana, Cuba
1105 HJ3ABD Bogota, Colombia
1110 CMCJ Havana Cuba
1120 YV1RF Maracaibo, Venez.
1190 LS2 Buenos Aires, Arg.
1200 CMCO Havana, Cuba
1220 HJ3ABE Bogota, Colombia
1230 CMCB Havana, Cuba
1245 TGW Guatemala, City
1260 CMC Havana, Cuba
1350 CMCA Havana, Cuba
1410 CMCQ Havana, Cuba
1440 CMOA Havana, Cuba
1510 TG1 Guatemala City

It is likely that Radexers will be able to make additions to this list. If such information is forwarded from time to time, we will keep the list up to date and run it every month.

Another way to increase a log with new stations is to get up early in the morning and catch the stations as they sign on for the day. From the Universal DX Club bul-

letin of January 1st, the following list of sign-on times was computed by Isaac T. Davis. The first column gives the frequency, the second column the call, and the third the sign-on time as a.m., Eastern Standard. Four stars (****) indicate an all-night station.

550 WKRC	6:30	1070 WTAM	6:00
560 WQAM	6:00	1080 WBT	6:30
560 KWTO	6:00	1090 KMOX	6:30
570 WNAX	6:45	1120 KRSC	****
580 WTBW	6:00	1130 WJJD	6:45
590 WEEI	6:45	1140 KVOO	6:55
600 WICC	6:00	1150 WHAM	6:30
610 WCLE	6:45	1160 WWVA	6:00
630 WMAL	6:30	1170 WCAU	6:00
640 WHKC	6:30	1180 WMAZ	6:45
680 WPTF	6:30	1190 WSAZ	6:00
700 WLW	5:45	1200 WJBW	****
730 XEPN	5:45	1230 WNAC	6:00
740 KMMJ	6:00	1240 WKAQ	6:00
750 WJR	5:45	1250 WNEV	****
760 XEOK	****	1260 KOIL	6:00
780 WEAN	6:00	1260 WHIO	6:00
800 WBAP	6:45	1270 WASH	6:30
820 WHAS	6:45	1290 WNEL	5:45
840 XERA	****	1300 KFAC	****
850 WWL	6:30	1310 WFDF	6:00
870 WLS	6:30	1320 KRNT	6:00
890 KFNF	6:30	1340 WSPD	6:30
920 WWJ	6:00	1350 WAWZ	6:00
930 KMA	6:00	1370 WBLK	6:00
940 WDAY	6:00	1370 KRE	****
950 WRC	6:00	1380 WSMK	6:00
960 XEAW	5:45	1390 WHK	6:30
990 WBZ	6:00	1410 WAAB	****
1000 WHO	****	1410 WHIS	5:00
1010 KNOX	6:30	1420 WMBS	6:00
1030 CKLW	6:00	1420 KXL	****
1040 KWJJ	****	1430 WBNS	6:30
1040 WTIC	6:00	1440 WCBA	6:30
1060 WBAL	6:00	1450 WGAR	6:30
1070 KJBS	****	1500 WJBK	****

CMHJ DX Special

"Due to absence from this city," writes Enrique Hidalgo, Prado 210, Cienfuegos, Cuba, "I have been unable to give another winter series of DX programs from CMHJ. I am now coaching the Cuban Olympic Track and Field Team, which will participate in the Central American Games at Panama from February 4th to 24th. However, CMHJ will broadcast on 1160 keys, from 2 to 3 a.m., EST, on February 13th, and I will try to catch the program from Panama City. I am returning to Cienfuegos on March 1st and will direct another DX program over CMHJ from 2 to 6 a.m., EST, on Thursday morning, March 10th.

Don Ameche



The career of Dominic Felix Ameche convinces us that boredom can be a good thing once in a while. For Mr. Ameche, it appears, was bored with the study of law, and gave it up to be an actor. Today, his acting has made him a star in the movies and on the air. Currently he is a co-worker of Charlie McCarthy and others on the Chase and Sanborn Hour on NBC.

There was a long period of academic wanderlust in Don's youth, and it carried him through a whole catalogue of educational institutions. First, he went through the public schools of his native Kenosha, Wisc., and then matriculated at St. Berchman's Seminary, at Cedar Rapids, Ia., where he met Honore Prendergast, the girl he later married. Then came courses at Marquette University, Georgetown University, Wisconsin Univer-

sity—none of which felt called upon to confer a degree on the roving scholar. All the while he was studying law, and liking it less and less with each course and lecture. Finally, for relief from the ennui of his textbooks, he turned to campus dramatics. Turned with a vengeance, too.

Answers An SOS

Well, one fine summer noon, the leading actor of the Jackson stock company in Madison broke his leg in an altercation with an automobile. A new Adonis was needed to replace the battered one by 3 that afternoon, and the impresario of the stock company was frantic. He sounded an SOS, and a dozen applicants rushed to the scene, but they were uniformly hammy. The impresario was on the verge of calling the show off when he remembered about that Ameche fellow who did such a good job in the university productions.

A messenger boy was sent to get Ameche, and the law student responded by cutting classes, rushing to the rehearsal hall, rolling up his sleeves and cramming on the part. He learned the role in two hours, made his debut, clicked, and was awarded a 20-weeks contract after the first performance.

Five months of dignified poverty followed a year's tour with this company, before he joined Fisk O'Hara in a play named Jerry, For Short. Then stock in Greenwich, Conn., vaudeville with Texas Guinan, an eight weeks' run in *Illegal Practice*. Then unemployed again.

Jobless Don went to Chicago, heard about a radio audition for an air program called *Empire Builders*, entered the competition, and won. Six years of bending over microphones, during which he starred in NBC's popular *Grand Hotel* and *First Nighter* dramatic series, made him a personality on the air. And

it was during his work on the networks that Darryl F. Zanuck, production chief at 20th Century-Fox, heard him, liked him, decided to watch his career, watched it, brought him to Hollywood, gave him a featured role in *Sins of Man* five hours after the boy arrived in Hollywood, and told the press that he considered the Kenoshan one of the most important screen discoveries in recent years.

Gets Lead Role

This was no mere chatter on the part of Mr. Zanuck, who demonstrated his confidence in Ameche by assigning him the lead role in *Ramona*, opposite Loretta Young. On the basis of his performance in this picture, Ameche was awarded important roles in subsequent pictures.

Don is in his middle twenties, he stands six feet one, weighs 190 pounds, has dark hair, large brown eyes and a wide smile that displays a handsome set of teeth. His speaking voice is a soft baritone, his singing voice a light tenor. A son of pious Italian parents, he is deeply religious himself.

The Ameche preferences and aversions are many and interesting. He prefers poker to bridge, a pipe to cigarettes and he always eats a second slab of apple pie. He dislikes lettuce, tight collars and chicken a la king, and although he doesn't consider a cocktail a devil's potion, he likes grapefruit and Dago red much better. When he gets up in the morning he acts bewildered and cross, but once he's awake he's affability itself. He works out every day of the year—either tennis, swimming or riding, and he is in fine trim.

It is estimated that there are more than 57,000,000 radio sets in use by English-speaking families throughout the world.

HELP for Our Puzzled Readers

• • • By the TECHNICAL EDITOR

DX on 6 Tubes

I purchased a RCA Victor 6 tube set in 1937 but have had very poor reception. I would like to pull in a few DX programs but am wondering whether this set is too weak for short-wave reception. Is there some attachment that will clear up the air and eliminate interference that I get from a local station? This station comes in at several places on the dial. Other set owners say they get good reception nearby. Either end of the dial is also just a blur of stations. What can be done to improve this set?

Since other set owners do not experience this same trouble it is likely that your receiver is at fault. While it is true that only 6 tubes are used, the set is modern and is capable of giving DX and short-wave reception most of the time. While DXing with this set cannot be expected consistently, it will, however, be possible at frequent intervals when all the conditions are favorable. Also, DX on short waves with a set that has so few tubes is a question of careful tuning and much patience; it is quite practicable. Just how far and how much DX is possible with this set we cannot predict, but at least European and South American stations ought to be heard.

The local interference is due to some combination of harmonics within the set. This causes the interfering local to repeat itself at two or more points on the dial. If it is caused by an unfortunate combination of the station frequency and the receiver's intermediate frequency, it is likely that a good service man can readjust the i.f. of the set a small fraction, but this opera-

tion is not always to be recommended. Perhaps a wave trap will solve the problem, and we suggest that you discuss this with your serviceman, as he can build such a trap quickly and at little expense.

However, we believe that a complete examination of the set with a view of realigning the trimmers might correct the trouble. Since you have failed to furnish us with the model of this set it is impossible for us to go into the details of adjusting these parts. Your serviceman is capable of doing this quickly.

Ultra Short Waves Weak

I have a Zenith 12U 158 which I think should do better. A nearby local station covers about 30 points to either side of its assigned frequency. But I have not been able to hear anything on the ultra short waves unless I turn the volume up as far as it will go, and then all I get is a couple of amateur stations. My service man claims it is corrected and nothing is wrong. But one man says it needed new i.f. coils and a padder condenser. Are these coils alike, and what is the rating of the padder? Are they expensive?

You are the owner of a very good receiver. It should be sensitive and selective if in a proper operating condition. The fact that it brings in a local station over a wide part of the dial indicates that your antenna may be too long; that the station is quite nearby; or that the set is in need of readjusting. It may be necessary, although it is unusual, for some adjusting and aligning of the "A" broadcast band. Your local serviceman can do this. He must set his generator to 1400 kilocycles and then 600 kcs., ad-

justing both times the broadcast oscillator trimmer placed in front of the chassis. Then the r.f. and detector trimmers must be adjusted. On 600 kcs. the broadcast padder must be adjusted for greatest signal output. The four i.f. trimmers are adjusted with the generator set to 456 kilocycles. The "B" and "D" bands should not be touched unless they too are not properly lined up on the dial.

Band "C" for the ultra short waves has no adjustments. Great care must be exercised to see that the leads or their positions as well as the coils for the short waves are not moved or changed in any way, as this will affect the tuning of the band. Therefore, there is no adjusting to be done on this band.

Your short-wave troubles are quite common. Read the article in the January issue of RADEX on short, short waves. Reception on this band is neither consistent nor reliable. The same thing often applies to the 20-meter and 16-meter bands on 3-band sets. Remember that this seldom is the fault of the set. But it is true that lack of sensitivity on this band may be due to an open oscillator coil, open or shorted .0012 mfd. condenser, a shorted 50 mmfd. condenser across the high frequency coil, or grounded trimmer on the detector section of the tuning gang condenser. The first detector tube, a type 6L7G, often gives trouble; also, the second detector, a type 6H6G. The first tube, or the r.f., may also be failing on the high frequency band. We suggest that you first try replacing these tubes, or make a test substitution if they should appear to test up satisfactorily.

The two i.f. coils or transformers are slightly different in this set. They are relatively inexpensive, costing about \$1.25 each at the factory. The small padder condenser

has a capacity range between 200 and 550 mmfds., and costs about fifty cents. We have our doubts whether these parts are defective, yet, of course, it is possible. This fact cannot be determined without a careful check.

DX Signals Fade

A set which I now own is called the "Admiral." It has 19 tubes and two 12 inch speakers. Who makes this set? But on foreign reception the signals often come in with a wavy sound. Can you suggest the possible cause of this trouble? In addition to this, the set often cuts off suddenly and then comes in again with full volume. This trouble occurs mostly after dark between 5 and 9 in the evening. What type of antenna do you recommend?

"The Admiral" receiver is manufactured by the Continental Radio and Television Corporation. As there are over 30 models listed it is difficult to determine just which one is yours. All have an intermediate frequency of 465 kilocycles.

The wavy sound heard on the distant short waves is natural. Fading occurs in the upper atmosphere, and this causes the signals to diminish in intensity at irregular intervals. All DXers are familiar with this strange happening. It sounds as if the wind were blowing the signals along in waves. Fading is a natural thing—man cannot change it. But we do, however, control it to a great extent through the action of the automatic volume control in our receivers. As the signal begins to fade below the level of volume set for it by the hand operated volume control, the automatic volume control begins to feed it more and more current which boosts the audio amplification of the fading signal. This tends to maintain the signal at the constant level originally fixed by the volume control knob. However, as the fading sig-

nal goes down and the automatic volume control goes up, there is apt to be some distortion and increase in noise level. All this action, together with severe fading that the volume control cannot bring up to the predetermined strength, causes a wavy movement or the swishing or blowing sounds so often noticed. There is nothing that can be done about it except maintain the automatic volume control in good shape by replacing that particular tube from time to time if required.

Cutting off of signals is usually caused by some mechanical or electrical defect within the set. The heat created as the set warms up often expands some poorly made joint or contact and this suddenly opens the circuit and kills the set. Then, as the set cools, contraction sets in, the open circuit closes and the set commences again to operate. Such failure is perhaps more often observed in one of the resistor or condenser units as they are easily affected by heat, particularly the former. A tube can also cause similar trouble, but may not show it on formal checking. The tube must be operated for some time so it will become good and hot. Your serviceman should be able to locate the trouble, but first must run the set some time so it will heat up normally. The fact that this trouble comes on between 5 and 9 p.m. more than at any other time causes us to believe that there must be some increase or surge in the power line that creates voltage fluctuations, and these in turn throw a higher potential into the receiver and cause momentary strains on the defective parts. However, a simple thing like defective antenna wires or ground wires, worn lighting cords, etc., may also cause this cutting-off effect.

Your antenna is very good, and as long as the set tunes sharply it is not necessary to reduce its length

to less than 80 feet. However, 40 feet is usually a good total length for a large and powerful set. The doublet antenna need not be used unless you are bothered with too much man-made interference, because it appears you are deriving excellent foreign reception when the set works.

Automobile Noises

I have a very good set that utilizes twelve tubes of the most modern types. This receiver has four bands, one being for the very short waves. Automobiles bother me considerably on this one band, but they are heard correspondingly less as the wave bands progress toward the broadcast band. Can this automobile noise be eliminated entirely on all these bands?

The ignition system of an automobile consists of a number of spark plugs, at least six, and a distributor and circuit breaker contacts. All of these, when working, give off sparks and, as a result, tiny electro-magnetic waves. In the old days of wireless most transmitters were spark operated. Their signal waves carried thousands of miles. So it is not at all surprising that automobile spark systems should carry at least several hundred feet as they pass by our homes and antennas. Naturally all this causes interference in a radio set—particularly one that may be built into the car. In order to prevent ignition-system interference with reception in automobiles the car manufacturers have devised means of suppressing the tiny radio waves that are sent out every time the circuit-breaker contact in the distributor fires a plug. When a car that is so built, with a built-in radio set, passes your home, you will not be bothered with noise from the firing plugs in its motor. It will be a happy day for everyone when all cars are so built. But there are many

old cars and trucks on the roads, and some of them really can create a weird disturbance. There is nothing we can do about them.

What we can do, however, is to shield our radios and antennas as much as possible from this form of interference. A noise-reducing antenna with special twisted or shielded leadin wire is necessary. Most every make of noise-eliminating antenna system on the market today will cut out much of this motor noise. But, unfortunately, auto noises give more trouble on the very short waves, since the auto wave is quite short in itself. That is why auto interference is often heard on the very short waves but not on the broadcast waves when a special doublet antenna is used. Other than the use of such an antenna; the distant location of the antenna; pointing toward the street; and a long leadin, there is little else we can do to prevent auto noises on the short waves.

Silvertone Short Waves

Please tell me what is wrong with my Silvertone 8-tube set. For the past several weeks the 9.0 to 18.0 megacycle band has been dead. I have been unable to get anything on this band, and if I can get stations on all three of the other bands I do not understand why I cannot get some stations on the fourth band, especially England and Germany which are supposed to be easy to get.

There are a number of short-wave stations in the fourth band between 9 and 18 megacycles that you should get easily on this set. These include London and Berlin. The fact that this band is dead while the remaining three bands are normally active indicates that there is trouble on this short-wave band.

We suggest that the switch operating this band be examined carefully. It should make good con-

tact. And all wires leading to it and the associated coils must be well soldered. The coils must be perfect and not be broken or loose. The condensers in this particular band, trimming the short wave transformer, may be open or shorted. There are a number of things in the circuit that must be examined carefully by your service man. A poor tube, too, can cut out the short wave portion if it is not oscillating properly at the high frequencies. The second detector as well as the first might need replacing. Substitution of these tubes, even if they test satisfactory, sometimes is essential. Care must be taken not to move or change the position of any of the wires or parts of this circuit while making the examinations. Short-wave tuning, too, is tedious. Good reception is not always consistent; some nights are better than others. We think that a careful check will quickly locate your difficulty and renew the good qualities of this receiver which are built into it.

10-Meter Band

My receiver seems to be dead on 10 meters, and not very sensitive on 20 meters. Amateurs on the Pacific Coast can be heard fairly well on the 20-meter band, but have not been able to get stations that far off on the 10-meter band. Their carrier wave is louder than the voice. This set is a Zenith 1938 with 15 tubes. The rest of the set works fine. Can I use a pre-selector to improve this set? What about the antenna?

Of course, you have a very good receiver. But radio reception on the very short waves is far from being consistent. There are times when the 10-meter band just simply closes up and the most expensive set in the world cannot penetrate it. Then, when the band opens up, almost any receiver capable of tuning to 10 meters can pick up signals. This

question of short, short-wave reception is of considerable importance. In fact, it seems to us that sometimes the addition of these wave bands by standard all-wave receivers is still in the experimental stage. The most that can be said in favor of this ultra short wave band is that it is interesting and purely experimental. The builders and designers of your receiver have created the best that radio engineers can produce, but nature still has failed entirely to cooperate.

While you receive stations on the 20 meters as far as 2,000 miles distant, you might not be able to hear the same distance on 10 meters because of the skip-distance effect of the shorter waves. Also, we must not overlook that fact that 10-meter tuning is tedious and difficult—and the number of stations within range of your receiver, allowing for skip distance, might be very small. If there is an amateur radio station in your vicinity, it might prove to be an interesting experiment if you will communicate with him to find out how the two bands are working, and if good, see whether your set also is working on these bands. Your attention is invited to the short-wave article in the January RADEX, as mentioned in a previous query. As long as the remaining three bands work well, particularly the foreign 6,000 to 10,000 kilocycles band, it indicates that the set is functioning perfectly. However, trouble in the fourth or short-wave band is possible when that portion of the band switch is dirty or working poorly. In some cases the first-detector or converter tube, a type 6L7G, may seem to be good, but cannot function well on the high frequencies. Substituting a new tube for this, as well as for the type 6J5G oscillator or the second detector 6H6, might make the fourth band more sensitive. Frequently

this experiment has proved the full answer to similar troubles. Your service and instruction booklet should also give some details for short-wave reception.

The 60-foot doublet furnished with this receiver should be used whenever possible. However, we have experienced cases when a single wire with good ground—an aerial about 30 feet long or less—has given the best short-wave reception. The doublet is recommended in every case, however, for all-round reception.

The use of a pre-selector with this or similar sets is not recommended. Your receiver is sufficiently sensitive, and more r.f. amplification will only add to the noise level and your tuning difficulties.

Reading DX Dial

I have a 10 tube Silver Marshall model 726S receiver. Can you please tell me the best type of antenna to use for all bands? I now have a G. E. V doublet type, and while it seems to work well on the 49 meter band, it does not do so well on the other bands. And how do I find short-wave stations when the readings, for example, is—6.050 GSA GB 20? This set has two dials and the standard dial has to be turned below 55 kcs. or I get standard broadcasts even when I have the band switch turned to short waves. What causes this?

The doublet antenna you are using is one that has been quite satisfactory, but it might not be matched to your set. Sometimes a single wire, from 30 to 60 feet in length, with a good ground contact, is sufficient provided you do not have an excess of local noises and automobile traffic. In the latter case the doublet will reduce the static interference. You might write to the manufacturer and find out which antenna they recommend as being perfectly matched to the input im-

pedances of their sets. In addition to your present type, there are several very efficient makes.

The listing of short-wave stations is given in all issues of RADEX. This, as given in your example, means: 6.050 indicates the dial setting or the frequency of the broadcast signals. It really means that this signal has a frequency of 6,050 kilocycles, or 6.05(0) megacycles. One megacycle is 1,000 kilocycles, or 1,000,000 cycles. It is a more convenient method of referring to the high frequencies which run into large numbers. Your reading of 6.050 mcs., represents 6,050,000 cycles or a wave length of 49.59 meters (300,000 divided by 6,050). So, when you see a reading like this in megacycles or kilocycles, it means that you should set your dial to a similar position in order to locate the station. Careful tuning is then necessary as the station may be a bit to one side of the setting.

The letters GSA, etc., after the frequency setting refer to the call letters of the station that operates on that particular frequency. Following the letters usually comes the location of the station—the city and country. The next figure, which, in your case is 20, refers to the power of the station in kilowatts. This station has a power of 20,000 watts, or 20 kilowatts. This is sufficient power, in normal times, to carry from England, where GSA is located, to most parts of America.

Now, if your dial is not subdivided into kilocycles on the short-wave band, some difficulty will be experienced in locating stations. On the standard broadcast band kilocycle readings will be given, usually ranging from 550 to about 1,500 kcs. These numbers correspond to those given in the tables in RADEX. But on the short-wave dial, reading from 1 to 100, several stations will have to be located first and their read-

ings then indicated. Then you can estimate the spacing between these known points, by interpolation, and fix the tuning spot of any other short-wave station given in RADEX' lists.

If it is necessary to turn the standard broadcast dial down to 55, even when the short-wave switch is thrown to SW, in order to prevent broadcast stations from being heard on the short-wave band, there is something wrong with the switch. Have the parts carefully examined and replaced if found defective. Turning the broadcast dial below 55 cuts out any stations that may be heard, and leaves the short-wave dial free of interference. This trouble, too, will tend to weaken the short-wave reception. We suggest that this defect be looked into by a good serviceman, and he will be able to make correction quickly and at little expense for labor.

Aligning Crosley 915

I have a Crosley 915 of 1936 which I have tried for long to adjust. It has 5 transformers and each has 5 set screws, and two other transformers with 2 and 3 screws each. I do not know which screws to set for the 5 different bands. Please tell me how to adjust this set and how to get at the parts to be fixed.

We do not recommend that you attempt any adjustments on this radio. To be done correctly it is a job that must be tackled by a good serviceman. First, you ought to have a signal generator or oscillator so as to tune the long wave and broadcast bands. And when you get into the short wave bands, especially the 5th band, a signal generator is an absolute necessity. There are many trimmers to be set, but there is no way of knowing when they are set properly and to proper frequency unless you have the generator and its associated output meters. In all

(Please turn to page 38)

The International DXers Alliance

THE International DXers Alliance, organized to promote and foster the hobby of DX-ing, is a little more than five years old, having been founded on November 1, 1932. The following January, the I.D.A. distributed to its less than 50 members the first monthly issue of the *Globe Circler*, a four-page mimeographed bulletin.

By February of 1934, the bulletin had grown to 10 pages, about the maximum size practical for mimeograph production, so in March of that year the first 8-page printed *Globe Circler* put in an appearance. The *Globe Circler* has shown a steady growth and now includes from 16 to 20 printed pages of DX facts and photographs each month.

The growth of the I.D.A. has kept pace with that of its official organ, and today it is the world's largest honorary all-wave DX listeners organization, and numbers members and representatives in 45 states of the United States and in over 60 foreign countries. Besides the *Globe Circler*, the I.D.A. publishes monthly *Ama-Touring*, the only publication dealing exclusively with reception on the amateur bands. At irregular intervals, the I.D.A. also issues the *Forum*, an informal bulletin dealing with the activities of members.

Charles A. Morrison, Short Wave Editor of *Radio Guide* and a contributor to many radio publications, is the founder and president of the International DXers Alliance, and Editor of the *Globe Circler*. Co-sharing with him in the responsibility of directing the wide-spread activities of the organization are three vice-presidents, a board of seven directors, an official secretary, and a staff of foreign representa-



Walt Disney's famous characters, Mickey and Minnie Mouse and all the rest of the gang, are heard on the new Red network show on Sunday afternoons at 5:30 pm.

tives and state managers.

The first local branch chapter of the I.D.A. was formed in Toledo, Ohio, in March, 1934. Since that date, local chapters have been organized in Phoenix, Ariz.; Los Angeles and San Francisco, Calif.; Revelstoke, B. C.; Regina, Sask.; Calgary, Alta.; Halifax, N. S.; Lansing, Kalamazoo and Detroit, Mich.; New York City, and in England, Malta and Australia. Each chapter is a focal point of I.D.A. activities and radio interest, with from 10 to 50 members. The Foreign Affairs Department of the I.D.A. is a special staff of correspondents set up for the purpose of maintaining contact with foreign countries and arranging special broadcasts from stations in those countries. During the

past five years, this department has been responsible for planning programs from every part of the world, including the first DX broadcasts ever to originate in several different countries.

The I.D.A. has sponsored three international DX contests, in each case giving valuable awards and trophies to the winners.

Special certificates of merit are available for outstanding accomplishments in the broadcast field. The hard to obtain, but eagerly-sought-for, "Doctor of Short Waves" degree is conferred upon members who have achieved outstanding merit in the short wave field.

Each week special tip periods are sponsored by the I.D.A. over various radio stations. Outstanding is the weekly "Mail Bag" program broadcast over the international short wave stations W2XAF and W2XAD at Schenectady, N. Y., on Tuesdays at 6:35 p.m., EST.

The I.D.A. is essentially a non-profit organization and is, therefore, financially dependent upon the small annual individual membership fees of \$1.25 for its continued existence.

Last but not least, the International DXers Alliance believes that, despite the apparent unrest in the world today, radio has been responsible for real progress towards a better spirit of co-operation between nations, and it is doing everything within its limited scope to aid in bringing about better conditions of friendship between nations and individuals.

The headquarters of the International DXers Alliance are at Bloomington, Ill., and full information about the club and a sample copy of the *Globe Circler* will be sent to anyone interested.

Figyelem Magyar DX-erek!

A NEW radio club is being organized by the Hungarian DXers in America. A large fraternal and insurance organization has promised space in its weekly publication and a number of DXers have already offered their support of the plan.

The club, to be known as the "Veshovey Short Wave Club," was conceived by Albert Steinmetz of Bayonne, N. J. Some of the well-known DXers who will support the plan are Julius Orosz of Cleveland, F. E. Bartholy of Pittsburgh, Joseph A. Markovits and Albert Farkas, Jr.

All DXers who will agree to report regularly to club headquarters will receive the official magazine, "Verhovayak Lapja" free for one year.

Hungarian radio fans from all over the world are invited to write to Albert Steinmetz, 125 West 27th St., Bayonne, N. J., for further details.

Walter Winchell prefers the role of Jergens Journal radio editor and daily newspaper columnist to that of film star. With two successful films to his credit, the NBC commentator claims he has had enough of Hollywood. His Sunday night program on NBC and his six newspaper columns a week are enough, he says, to keep him busy.

Parks Johnson, co-conductor of the NBC Vox Pop program and the new NBC Radio Newsreel program, is beginning to wonder if New York is doing things to him. Born in Alabama, a resident for many years of Texas, he speaks with a slight Southern drawl. Yet he has just received a letter from a fan who refers to his "typical Brooklyn accent."

For the *SHORTWAVE* Fans

Australia

The call sign VLR is now used by the Melbourne station formerly known as VK3LR. VLR transmits on 9580 kcs. from 1 until 9:45 a.m., EST. (RX72 I11).

Brazil

PSH, 10220 kcs., located in Rio de Janeiro, broadcasts daily from 7 to 9 p.m., EST. Announcements are in English and Portuguese, and they sign off with the Brazilian National Anthem. The address is Caixa Postal 709. (RX25 N. Y. RX27 N. Y., RX51 Mass., RX52 N. Y., RX76 Nebr., RX77 D. C., RX78 Minn., RX103 Conn.).

British Guiana

VP3THE has ceased transmitting and at this time the equipment is probably on the way to Georgetown, according to announcements from the station before it closed down. (RX34 Kans.).

British West Indies

Station VP2LO in Saint Kitts will be on the air on 12765 kcs. from 3 to 10 p.m., EST. (RX51 Mass.).

Canary Islands

EAJ43 on 10370 kcs. is best received between 3 and 4 p.m., EST. (RX27 N. Y.).

Colombia

HJ1ABE in Cartagena is now on 4860 kcs., asking for reports, which are to be addressed to Box 31, Cartagena. This station signs off with an organ playing "Aloha Oe." (RX79 Ohio, RX90 N. Y.).

HJ2ABC in Santa Marta, 6025 kcs., is heard at 7:30 p.m. . . . HJ3ABH Bogota on 4900 kcs. have moved from 6012 kcs., and is heard near 9:30 p.m. broadcasting waltzes and announcing in English. . . . HJ1ABE in Cartagena is now on 4860 kcs. between 9:30 and 10 p.m. (RX34 Kans.).

HJ6ABC on 4740 kcs., Ibague, is heard from 6 to 11 p.m. This was formerly HJ4ABC. HJ2ABJ, 4660 kcs., Santa Marta, is heard from 5:30 to 10:30 p.m. . . . HJ4ABP on 4880, Medellin, is heard near 11 p.m. (RX51 Mass., RX79 Ohio).

Costa Rica

TI4NRH, "The Voice of Costa Rica," at Heredia, one of the oldest shortwave stations in the world, has returned to the air. This, "the most friendly station," employs 500 watts power now, and wishes reports by airmail. Schedules are maintained on Tuesdays, Thursdays and Saturdays from 9 to 10 p.m., and on Sundays from 7 to 9 a.m., EST., on 9670 kcs. The owner-operator-announcer is Amando Cespedes Marin, Apartado 40, Heredia. This station always acknowledges correct reports promptly. (RX23 Minn.).

TI4NRH was heard several times broadcasting test programs between 11:45 p.m. and 12:15 a.m. (RX25 N. Y., RX51 Mass.).

Station TIX in San Jose announces the call letters TIX in Spanish instead of the former call, TIXGP3. (RX34 Kans.).

TIPG on 6410, San Jose, was heard broadcasting the "Costa Rican Hour" and giving station announcements in Spanish and English. Verifications were promised in return for correct reports which are accompanied by the usual Reply Coupon. (RX25 N. Y.).

Ecuador

HCJB in Quito on 8830 kcs. transmits from 8:30 to 10:30 p.m. EST., daily except Mondays, and is heard best near 9 p.m. (RX51 Mass.).

The Ecuadorian on 9300 kcs. has been identified as HC2CW, "Ondas del Pacifico," situated at Guayaquil. Station "Radio Paris," also in Guaya-



Barbara Luddy, known to the nationwide NBC audience as the co-star of Campana's First Nighter broadcasts, is also the star of a day-time program, "Margot of Castlewood." She plays the title role in this new serial which is broadcast Mondays through Fridays at 10 am, EST, on the Blue network.

quil, HC2RA, is working on about 9480 kcs., next to HC0DA, "La Voz del Alma." (RX52 N. Y.).

Great Britain

Transmissions from Daventry in the Arabic language were inaugurated on January 3. This new service is broadcast daily on GSC, 9580 kcs., from 5:17 to 6:15 p.m. GMT.

Guatemala

Very attractive cards are sent out by TGWA in Guatemala City. The frequencies employed by this station, "The Voice of Guatemala," are 9685, 11760, 15170 and 17800 kcs. (RX30 Ky.).

Haiti

HH2S in Port-au-Prince, 5885 kcs., was heard on this new frequency broadcasting orchestra music at 9:45 p.m. Announcements are made on the even hour in French, Spanish and English. They sign off at 10:10 p.m. (RX34 Kans.).

Hong Kong

ZBW in Hong Kong is now heard well in the east. RX27 (N. Y.) heard it on 9525 kcs. between 5:30 and 6 a.m., EST.

Iceland

TFJ in Reykjavik, 12230 kcs., is heard with an R6 signal at 2 p.m. on Sundays. News in English is broadcast at this time. (RX23 Minn., RX27 N. Y.).

Italy

IRF, Rome, on 9830 kcs., broadcasts the American Hour from 7:30 to 9 p.m., EST. (RX23 Minn., RX51 Mass.).

Japan

JZJ on 9535 kcs. is on the air from 4:30 to 5:30 p.m., and heard at about R6. (RX51 Mass., RX72 Ill.).

JVH on 14600 kcs. is heard at 7 p.m. with talks in Japanese, and after 11 p.m. with musical programs. (RX23 Minn., RX27 N.Y.).

Kwang Tung

JDY at Dairen is heard on 9920 kcs. at about 6:40 a.m. (RX23 Minn.).

Note: Kwang Tung is a former Russian province in N. E. China; leased to Russia in 1898 but ceded to Japan by Treaty of Portsmouth in 1905; capital, Dairen.

Kwangtung is a province in S. E. China; capital, Canton.

(Funk and Wagnalls)

Martinique

"Radio Martinique" announced that they are on the air at 12:30 p.m. daily, in addition to their regular program from 6:45 to 7:45 p.m., EST. This station has also been heard several times on late night broadcasts, once near 11:55 p.m. and again at 12:50 a.m. (RX51 Mass.).

Mexico

A station known as "Radiodifusora del Pueblo," located at Guadalajara, Jalisco, Mexico, is on the air from 9 to 11 p.m. on 7090 kcs. No call letters are announced. It is owned by the National Revolutionary Party, and the address is Madero 210, Guadalajara. (RX51 Mass.).

XETW in Tampico, on 6045 kcs., is heard through heavy interference, relaying the programs on XEFW. (RX34 Kans.).

XEWW, Mexico City, 9500 kcs., broadcasts world news near 8:30 p.m. (RX51 Mass.)

Netherland Antilles

PJCI, Willemstad, Curacao, in the Netherland Antilles (formerly the Netherland West Indies) was heard broadcasting orchestral music at 8:15 p.m. on 5940 kcs. Announcements were exclusively in Dutch, and they signed off at 8:36 p.m. (RX34 Kans.).

Panama

The Panama City station HP5B on 6030 kcs. is best heard at 6 p.m., although interference is heavy. (RX34 Kans.).

Peru

"Radio Nacional del Peru" at Lima has been testing with the BBC on 15170 and 19780 kcs. between 6 and 8:45 GMT. (RX30 Ky.).

Philippine Islands

Station KZIB, Cebu, on 900 kcs., has advised a member of the New Zealand DX Radio Association that they have a shortwave station under construction, but no frequency or other details were given.

Spain

EAR in Madrid is broadcasting now from 7.30 to 8 p.m., EST, and again at 9:30 p.m. on Mondays, Tuesdays and Thursdays. Talks are given by various foreigners in Madrid. The signal strength varies greatly, from R1 to R8 or more.

Straits Settlements

Alan I. Breen of Dunedin, New Zealand, reports that a shortwave transmitter is in operation relaying the programs of ZHL Singapore. At 7:55 a.m., EST, on a Saturday, a program of native music was in progress, and it was stated that this was an experimental transmission on 6085 kcs., scheduled to last until 11 a.m. The next experimental broad-

cast was announced for 5 a.m. the following Friday morning, on 9595 kcs. The call signs were understood to be ZHO and ZHP but it is not known which is which. The Singapore station on 6085 was heard with a much better signal than Rangoon, which has been well heard in New Zealand. Both stations should be heard in the United States.

Tahiti

FO8AA in Papeete, Tahiti, transmits from 11 p.m. until midnight on Tuesdays and Fridays. (RX27 N. Y.).

Union of South Africa

The official schedule and call signs of the South African stations, as received direct from Johannesburg, are given below:

There are four stations as follows: ZRD, Durban, 10 watts, broadcasts on 6150 kcs.

ZRH, Roberts Heights, near Pretoria, employs 5000 watts power on 6007 and 9523 kcs.

ZRJ, Maraisburg, near Johannesburg, using 200 watts, transmits on 6097.5 kcs.

ZRK, Klipheuvell, near Cape Town, 5000 watts power, transmits on 6097.5 kcs. and 9606 kcs.

The best time for reception of these stations in the United States is from 11:45 p.m. until 12:45 a.m., EST. The following frequencies are employed at that time: ZRD 6150, ZRH 9523, ZRJ 6097.5, ZRK 9606. The complete schedules of all the stations are given in our s.w. index. (RX23 Minn., RX88 U. S. Africa).

The South African Broadcasting Corp. is now issuing verification cards. Instead of call letters, the initials of the company are printed in large green letters. (RX75 Kans.).

Roberts Heights and Klipheuvell are naturally the most easily received of the South Africans. Roberts Heights is slightly the better of these two. Reported by RX51 Mass.,

RX76 Nebr., RX80 Ont., and RX88, Union of So. Africa.

United States

W8XK on 15210 kcs. is on the air with a new antenna and new transmitting equipment, and is now heard with a much-improved signal. Reports are requested. (RX51 Mass.).

A complete list of the Police Stations of North America was printed in the September issue of RADEX, and changes and additions to this list are shown in this column every month. Alterations which have taken place since our February issue are shown below:

New

1.674	KSPH	Hillsborough, Calif.	25 w.
1.706	.....	Ten Portable-Mobile stations in Oregon, each 10 watts, as follows: KOHF-H-I-J-O-V-W-X-Y-Z.	
2.382	WASP	Selma, Ala.	100 w.
2.442	WBNC	New Castle, Ind.	40 w.
2.442	WBPD	Bloomington, Ind.	40 w.



Oliver Wakefield, young English comedian whose sentence-twisting monologues have been heard on several major network programs and in New York's most exclusive night clubs, is the master-of-ceremonies on the new Paul Whiteman program. He is heard at 8:30 and 11:30 pm on Fridays over the CBS.

Uruguay

The Montivideo station CXA8 can be heard daily from 7 p.m. until midnight. (RX27 N. Y.).

Vatican State

HVJ, Vatican City, was heard on 11750 kcs. at 9:55 a.m., EST, with a good R8 signal. They were also on 15120 kcs. at the same time. (RX61 Ariz.).

Venezuela

YV3RB in Barquisimeto is now working on the announced frequency of 6465 kcs. (RX81 Tex.). This station is heard with its best signal between 10:05 and 10:30 p.m. Announcements are in Spanish, Italian, French and English. (RX25 N. Y.).

YV1RH has a very loud signal, on 6365 kcs. Its programs feature Spanish and American "swing" music, played by a studio orchestra. (RX25 N. Y.).

YV1RL Maracaibo on 5930 kcs. is best near 9 p.m.; YV3RA in Barquisimeto reaches maximum strength near 9:15 p.m. on 5895 kcs. (RX34 Kans.).

Phones

INB, Belgium, on 10630 kcs., phones and broadcasts to the Belgian Congo from 2 to 3:30 p.m., EST. HSP in Bangkok, Siam on 17740 kcs., works from 9 to 10 a.m. OPL in the Belgian Congo, 20040 kcs., phones Belgium from 8 to 9 a.m. (RX27 N. Y.).

SUZ in Cairo, Egypt, can be heard testing frequently near 3 a.m., EST. (RX72 Ill.).

Apex

W2XDR, owned by Radio Pictures, Inc., 3104 Northern Blvd., Long Island City, N. Y., transmits near 9 p.m. on about 43 megs. (RX27 N. Y.).

W8XWJ, "little brother" of WWJ, Detroit, now broadcasts regularly scheduled programs independently of any other station. It is on the air fourteen hours daily with its own programs, arranged under the direc-

tion of Wellington Granzow, former program man of WWJ. W8XWJ employs a new 500 watt Western Electric transmitter, installed on the top of the Penobscot Building. The frequency is 41 megacycles.

The Reporters

- RX23, Carl and Ann Eder, Pouch A, Willmar, Minn.
 RX25, George Nahas, 147 Seeley St., Brooklyn, N. Y.
 RX27, Raphael Geller, 1652 Radcliff Ave., Bronx, N. Y.
 RX30, R. J. Naber, 417 S. Western Parkway, Louisville, Ky.
 RX34, Martin Olthoff, Independence, Kans.
 RX51, G. L. Harris, 60 N. Holden St., N. Adams, Mass.
 RX52, Samuel A. Meyer, Jr., 83 Canterbury Road, Rochester, N. Y.
 RX61, Francis McDonald, 215 E. 34th St., Tuscon, Ariz.
 RX72, Gail Beyer, 3226 Sunnyside Ave., Chicago, Ill.
 RX75, Billy Richardson, Rich's Cafe, Halstead, Kans.
 RX76, Edward Danielson, Jr., Pawnee City, Nebr.
 RX77, Chas. S. Greenwood, 115 Second St., N. E., Washington, D. C.
 RX79, Theodore Johnson, 821 W. Woodland Ave., Youngstown, Ohio.
 RX80, George Wood, Komoka, Ont., Canada.
 RX81, M. W. Oliver, Houston, Texas.
 RX88, Mrs. R. S. Roche, 77 Durban St., Aliwal N., Union of So. Africa.
 RX90, Charles Genan, 205 Barrett Ave., Jamestown, N. Y.
 RX103, Edwin D. Eaton, 35 Center St., Wethersfield, Conn.

In Bulletin No. 195 of the Chicago Short Wave Radio Club, 345 short-wave stations are listed. A running head on one of the pages reads, "And to think, eight years ago there were less than 25 s.w. stations!"

Amateur

CALLS HEARD

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

Canadian and United States calls heard are listed here only when reported by listeners not resident in North America. Cuban calls are not listed when heard by listeners in United States or Cuba.

C-E

CE-: 1AH (i); 1AO (gi); 3AA (f); 5CM (g); CX3BL (i); EA9AH (e); EI2L (ac).

F-G

FA3HC (k); FB8AD (k); FB8AH (k); FISAC (k); F8KQ (h); G5ML (d).

H

HC-: 1FG (g); 2HP (f); HH-: 2B (a); 2G (h); 2LD (e); 5PA (ad); HI-: 1P (g); 2W (h); 3N (dfh); 5X (ad); 7G (a); 7I (f); HK-: 1JN (de); 1JO (f); 1Z (i); 3JA (ah); 4AG (e); HP1A (g); HS1BJ (k).

K

KA-: 1BH (i); 1ME (i); 1YL (i); K4-: EAY (f); ENT (a); ENY (a); FAY (a); GJF (f); K6-: BAZ (g); BHL (jl); CMC (j); LKN (g); MTE (e); MZK (g); NZQ (g); OQE (e); VCK (g); K7FBE (j).

L

LU-: 1DA (f); 1DJ (afg); 1QA (af); 4BH (a); 4CZ (f); 4BH (f); 5CZ (agh); 6KE (i); 7AC (h); 7CA (d).

N-O-P

NY2AE (l); OA-: 4AL (a); 4R (a); OX2GY (ae); PK6HR (k); PY1MK (f); PY7AI (a).

T

TG1AX (f); TI-: 2AV (j); 2FG (a); 2FI (f); 2RC (ag).

V-W

VE-: 1EI (g); 4EO (i); VK-: 2HS (j); 2IJU (g); 2OB (g); 2VA (j); 3BZ (g); 3TW (g); VO-: 6D (b/hk); 6J (ach); VP3THE (agk); VP-: 5GM (a); 6MR (af); 6TR (h); 9R (d); VQ1AB (k); VR4DC (k); VR4RC (k); VU2CQ (a); W1OXRA (k).

X

XE-: 1F (a); 1KY (g); 1LF (f); 2CY (g); 2EC (d); 2HB (g); 2HD (a); 2IY (g); 2JK (g); 2KM (l); XUSJR (i); XU8MC (i).

Y

YI2BC (k); YV-: 1AP (e); 4AA (h); 4AB (eh); 4AF (c); 4AO (e); 5AA (ade); 5ABA (e); 5ABF (ae); 5ABG (a); 5ABQ (e); 5ABY (a); 5AD (e); 5AE (de); 5AK (ae); 5AM (e); 5AZ (e).

Z

ZL3BI (g); ZP2AC (ik); ZS3F (a); ZU6P (e); Z6AF (f).

The Reporters

- (a) Gail Beyer, 3226 Sunnyside Ave., Chicago, Ill.
- (b) Carl and Ann Eder, Pouch A, Willmar, Minn.
- (c) Charles Genan, 205 Barrett Ave., Jamestown, N. Y.
- (d) Francis Gmeiner, 661 E. 109th, Cleveland, Ohio.
- (e) Ralph Hanford, Jr., 1433 Addison St., Chicago, Ill.
- (f) Gilbert Harris, 60 N. Holden St., N. Adams, Mass.
- (g) Francis McDonald, 215 E. 34th St., Tucson, Ariz.
- (h) Geo. Nahas, 147 Seeley St., Brooklyn, N. Y.
- (i) T. E. Plewman, Canadian Mission Press, Chengtu, West China.
- (j) Dale Smith, Eugene, Oregon.
- (k) M. E. Smith, 2974 E. 67th St., Cleveland, Ohio.
- (l) Hadley Wilcox, 623 W. 40th Place, Los Angeles, Calif.

Richard W. Fales of the Globe Circlers DX Club, Roslyn Heights, N. Y., informs us that the membership fee in this club has been reduced from \$1.50 to \$1.25 per year. As before, this includes full contest and other privileges, as well as their bi-weekly ten-page bulletin.



"Hello, Stranger" hilarious trademark of Sam "Schlepperman" Hearn, comes over the NBC-Red Network on the Jack Benny show on Sunday nights.

Station News

STATION CMBD has moved from 1170 to 1260 kcs, and now shares time with CMC, on the following schedule:

CMBD, Monday, Wednesday and Friday from noon to 6 pm; Tuesday, Thursday and Saturday, 6 am to noon and 6 pm, to 6 am.

CMC, Monday, Wednesday and Friday, 6 am, to noon and 6 pm, to 6 am; Tuesday, Thursday and Saturday, noon to 6 pm.

The Magic Key of RCA, popular program broadcast at 2 o'clock on Sunday afternoons, is now radiated over four Cuban stations. CMQ on 600 and CMBZ on 1000 kcs, carry the program, as well as shortwave stations COCQ on 9770 and COBZ on 9030 kcs.

A construction permit for the erection of a new station, held by the Telegraph Herald Co. of Dubuque, Iowa, has been suspended, in accordance with a mandate of the U. S. Court of Appeals, as the result of a Stay Order obtained by Sanders Brothers Radio Station. The construction permit for station KDTH, 1340 kcs, 500 watts daytime, was granted on July 2, 1937. It will be held in abeyance pending determination of the appeal.

CMQ, which recently moved from 880 to 600 kcs, is expected to change frequency again soon. Our Cuban informant suspects the change will be to 1010 kcs.

Cuba became the first nation to ratify the Pan-American radio treaty, when President Bru signed it on December 22. The signatures of the United States and Canada are required, and Mexico must signify its willingness to sign, before the treaty becomes effective.

The application of WRVA Wheeling for permission to use 50 kw, power has been favorably considered by an FCC examiner.

Two stations whose issues have been in the D. C. Court of Appeals have been granted permission by the court to proceed with construction. KUTA Salt Lake City and KXOK St. Louis are the stations which have been reinstated.

Examiners' Recommendations

Examiners have recommended that construction permits for new stations be granted the following applicants:

Petersburg Newspaper Corp., Petersburg, Va., to operate on 1210 kcs, 100 watts nights, 250 watts to LS, unlimited time except Sundays. Examiner recommended denial of the same facilities to Havens & Martin, Inc., and John Stewart Bryan of the same city.

Burl Vance Hedrick, Salisbury, N. C., to work on 1340 kcs, 1000 watts days.

Gerald A. Travis, La Porte, Ind., to operate on 1420 kcs, 250 watts daytime.

Sims Broadcasting Co., Globe, Ariz., to transmit on 1210 kcs, 100 watts nights, 250 to LS, unlimited time.

Gila Broadcasting Co., Safford, Ariz., to operate on 1420 kcs, 100 watts nights, 250 watts days.

Harwell V. Shepard, Denton, Texas, to work on 1420 kcs, with 100 watts days.

Frequency Changes Recommended

Grant of CP was recommended conditionally to KSLM, Salem, Ore., to change freq. to 1360 and power to 500 watts, unlimited time.

WELI, New Haven, Conn., authority to change freq. to 930 kcs, power to 500 watts days, 250 watts nights.

WMFJ, Daytona Beach, Fla., to change freq. to 1240 kcs, and power from 100 to 1000 watts.

WGRC, New Albany, Ind., to change freq. to 880 kcs, and hours of operation from daytime to unlimited.

The Stamp Corner

● ● ● By David Brockton Browne

The House of Representatives has passed a bill which will permit the reproduction of pictures of United States stamps. The bill requires only the President's signature.

"**W**HY collect postage stamps anyway?" Perhaps some of RADEX' large family of readers have been asking themselves that very question. If so, we shall attempt to answer it.

Practically every man, woman, and child collects something—either as a vocation or an avocation. The love to acquire is inborn and is a strong human urge. Stamp collecting helps fulfill that urge.

Many people long for something in which they can express their own individuality without the hampering bonds of conventionality, and the many other "thou shalt nots" that each one of us meets—consciously or unconsciously — every day of our lives.

In stamp collecting, the individual is his own master—he can collect what he chooses and when he chooses. If he wants to collect nothing but stamps with pictures of ships or castles—he may. And many wonderful collections have been built along specialized lines. If he wants a general collection with a little bit of everything—that again is his choice. He may do whatever fancy dictates—within reason.

Likewise, stamp collecting provides a means of traveling in foreign countries that may be enjoyed not once but many times. In these days of crowded events—when the names of many foreign places new to your acquaintance appear almost daily in your newspaper—or in short-wave broadcasts from foreign countries—stamp collecting comes to the rescue

like a trusted friend.

When we read—or hear over the radio—that the mighty Alcazar has been stormed, the splendid Madrid post office damaged by bombs, or that the Japanese are advancing on the Great Wall of China—we need but glimpse at the stamps which portray these fine examples of architecture—to visualize the events more clearly. Stamp collecting is a great aid in keeping up with the geography of these changing times; just as radio is a great aid in keeping accurately posted on the everchanging currents of human thoughts and emotions the world around.

Cover Collecting

Closely allied with postage stamps is cover collecting. There are many types of covers: First day of issue, first flight airmail, naval, merchant marine, historical cachets, etc. But first, what is a cover?

A cover is an envelope on which appears the correct amount of stamps, and postal markings to coincide with the event for which it was given postal service. For example, a first day cover of—let us say—the 3c Virgin Island stamp, would *not* be a first day of issue cover unless it had that particular stamp used for postage and was cancelled at Charlotte Amalie, Virgin Islands—the official first day city—on December 15th, 1937—the official day of issuance.

Likewise, airmail first flights must have the proper cancellations and inscriptions, and except in cases of certain emergency flights, must bear postage amounting to the current airmail rate. Naval covers are another case in point where the cancellation is all-important. These covers must be cancelled aboard a United States or foreign warship—or authentic naval shore station—to be naval covers.

Merchant marine covers are those envelopes which have been carried by commercial passenger or freight

vessels on their various cruises and bear ship markings to attest that fact.

Many of these covers will have cachets—an illustration placed on an envelope to record or commemorate an important or significant event—past or present. The cover may have a cachet that is a work of art—but remember this—if the cancellation is not accurate—the cover has little value except as a curiosity.

Covers bearing the cancellation of the *U. S. S. Panay*, recently sunk in the Yangtze river, near Nanking, China, by Japanese airplanes, are now eagerly sought after by collectors. Until this event focused attention on American naval ships in the Orient, it is doubtful if a large percentage of citizens realized that the United States has an Asiatic Fleet of more than twenty naval vessels constantly guarding American lives and property in the Far East. Likewise, our navy's European Squadron of three vessels patrols the coasts of Spain and nearby shores in the interests of peace. Covers from naval ships abroad are of true historical worth—they are living reminders of the prominent events in the life of our era.

Stamp and cover collecting also affords one an opportunity to correspond with other collectors having kindred interests. The short wave amateur band and correspondence with foreign collectors are two of the greatest safeguards for better international understanding.

The question naturally arises—how can reliable correspondence be contacted? One way to contact them is through an international hobby club. One of the most outstanding is the Guiana Hobby Club of British Guiana. With over 2000 members in 100 different countries—interested in nearly fifty different hobbies—it is not difficult to find a member in the country of your choice who is interested in the same

things you are—whether it be radio, stamps, or china elephants.

For accurate information on naval and merchant marine covers, the most reliable source is the Universal Ship Cancellation Society, an organization of more than 1000 collectors, principally in the United States. A long-established society, it has done much to accurately publicize the excellence and fine character of the navies of the world, particularly the American fleet, both at home and abroad.

Each of these organizations publishes interesting magazines. Should any of our readers desire further information, we shall be glad to forward complete details on both societies—without charge or obligation—if you will write to The Stamp Editor in care of RADEX. Please enclose a large-sized stamped, addressed envelope for reply. Your courtesy in this regard will be sincerely appreciated.

Stamp Digest

During 1937 the *United States* issued eighteen different stamps. They are: Army—2c, 3c, 4c, 5c; Navy—2c, 3c, 4c, 5c; Northwest Territory—3c; Virginia Dare—5c; Souvenir sheet for the Society of Philatelic Americans convention—10c; Constitution Sesquicentennial—3c; Hawaii—3c; Alaska—3c; Puerto Rico 3c; Virgin Islands—3c; and Trans-Pacific air mail—20c and 50c. Many of these stamps are still on sale at most U. S. post offices. How many of them do *you* have?

No definite announcement of the *United States* stamp program for 1938 has been made at this writing. However, we know that the present regular issue is due for replacement, and at least three more Constitution commemoratives, a Delaware Tercentenary, and probably another Northwest Territory stamp are planned. It is also possible that a ten value "Heroes of Peace" series

will appear during the early fall of 1938 as well.

Siam will shortly issue a new set of twelve stamps for regular postage. Designs will feature the young King Ananda, landscapes, and ruins and monuments of the kingdom.

Greece commemorated the marriage of Crown Prince Paul with a special series of three stamps; 1, 2, and 80 leptas.

1938 will see the replacement of the King George V regular series throughout the *British Empire* by the King George VI stamps. Some of George V stamps have not had a particularly long life—so should become good property for the future.

Your Stamp Editor appreciates the fine messages of encouragement and the suggestions that RADEX' readers have kindly sent in during the past month. They are all very welcome. Have *you* written yet? Cheerio!

Help for Readers

(Continued from page 27)

cases like this we strongly suggest that a serviceman be called. Complete alignment can be accomplished quickly and at very little cost since no new parts are involved unless one or more tubes are weak or inoperative.

23-Tube Scott

Nearly two years ago I purchased a 23-tube Scott receiver. Of late it changes its calibration. On the broadcast band it is off 10 kcs. On the red and green band it also is off. The set was sent to the factory, but it is again off and will not stay put. What causes this set to act so, and can it really be fixed so it will retain its adjustment?

The Scott receivers are as well made as it is humanly possible to assemble and adjust any radio re-

ceiver. Even after careful examination and specification of parts, resistors or by-pass condensers will become defective because of the high voltage strains placed upon them. Heat also has its detrimental effects.

Drifting-off of dial readings may be due to some defect as mentioned above, a weak tube, or moisture in some of the coils. Since you have returned the set to the factory it is safe to assume it was carefully realigned and appeared to be as good as new when sent back to you. It is likely, however, that a weakness in some resistor or condenser has changed the calibration again after the set operated for a certain length of time. These defects are difficult to locate, and perhaps the Scott Laboratories should have held the set for a longer time so as to watch its actions over a longer period. There is little to be done except to carefully check these parts, and realign the set by again adjusting the trimmers. Your local man can do this and save the cost of shipment to the factory, but we suggest that before doing so, you write the Scott people, mentioning RADEX. We know these sets can be fixed, and they will remain that way indefinitely.

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.

**You Can't Get Along
Without It.**

The price is only

25c

(26c in Ohio)



Walter O'Keefe, the "Broadway Hill-billy," is now on the Mardi Gras program with Lanny Ross, Charles Butterworth, Jane Rhodes and Raymond Paige's Orchestra. Hollywood Mardi Gras is broadcast on Tuesdays from 9:30 to 10:30 on the Red network.

Sidelights on the career of Walter O'Keefe, who on January 4 joined the Hollywood Mardi Gras program starring Lanny Ross and Charles Butterworth: Attended school in his native Hartford, Conn. . . . Went to Notre Dame where he lived at home of the late Knute Rockne . . . Classmate was Charles Butterworth. . . . After graduation worked for Fort Wayne, Ind., Sentinel . . . First seen on Broadway in "Third Little Show" starring Beatrice Lillie and Ernest Truex. . . . Starred later on radio, his latest assignment being master of during Fred Allen's absence.

All the shortwave stations of the world will be listed in the April issue of RADEX. This will be the most comprehensive list of shortwave stations ever published.

Across the EDITOR'S Desk

ONE of the many things that makes an editor's job a pleasant one is the correspondence that he receives from his readers. From many different lands these letters come from people in every walk of life . . . sailors, rachmen, housewives, executives, ambassadors, missionaries and movie stars, and each of them has something important to tell us, covering every conceivable subject from abalones to Zulus. We enjoy so much this daily pastime of reading the mail that this month we are passing some of the pleasure along to our readers. Glance over our shoulder as we open the morning's mail.

The most bulky package this morning comes from the Federal Communications Commission. It is an alphabetical list of all the broadcasting stations of the United States, 92 mimeographed pages giving the call letters, locations, frequencies, day and night power and time designation of the stations. All this data will be checked against our indices before this day is over, so readers can be assured that all the information given on the back pages of this book is accurate down to the smallest detail.

From Arthur La Motte of 1105 Nottingham Road, Wilmington, Del., we find a letter requesting information about station NAA. This station, situated at Arlington, Va., used to broadcast time signals on 690 kcs, but this transmission was discontinued in 1936. Several long and short wavelengths are used now, but the best way to get the time signals is from the NBC Red Network stations at 12 o'clock noon.

The Nassau Station

The Secretary of the Nassau station ZNS, Mr. K. P. Brown, informs



Tyrone Power, NBC dramatic star, owes his present success as a movie and radio star, in some measure, to radio. Long before the young Hollywood star entered movies, he had a featured role in Grand Hotel, where he struck up a friendship with Don Ameche. Power is heard in Hollywood Playhouse every Sunday at 9 pm on the Blue.

us that they are pleased to verify reports of reception from their listeners, and that there is no need for return postage to be included as all their correspondence is officially paid. ZNS is occupying temporary studios at the present time, but expects to move into new studios located in the new telephone building, when construction of the building is completed. Their verification form gives the following information: Call sign pronounced "Zed En Ess;" position of station, Nassau, Island of New Providence; Power, 400 watts; frequency, 540 kcs; present hours of working, 1:30 to 1:45 pm and 8 to 9 pm, EST. The following items may be used for identification purposes: opening signal, St. Mar-

garet's Chimes, London; relay of Big Ben and Westminster Chimes, London, when available, at 8 and 9 o'clock; signature tune, "God Save the King." Programs from Davenport are frequently relayed. The address is Office of the Superintendent of Telegraphs, Central Bay St. (P. O. Box 48), Nassau, Bahamas.

Gilbert L. Harris of North Adams, Mass., informs us that SPW on 13635 and SPD on 11530 kcs, at Warsaw, Poland, are using a new identification tune. It consists of a few bars from a song entitled "The Haunted Castle."

A note from Dr. Staads of Los Angeles gives the name of a German stamp collector, Herr H. Holst, Ulzener Strasse 22, Luneburg, Germany. Mr. Holst wishes to exchange cancelled United States and Canadian stamps, and those of Central and South America, for stamps of equal value from European countries.

From Georgetown, British Guiana, Mr. Bert Humphrey, founder of the Guiana Hobby Club, sends the schedule of his local station VP3MR. This station, known as "The Voice of Guiana," transmitting on 6070 kcs, broadcasts from 5 to 8:30 pm local time, or 3:45 to 7:15 pm, EST. The "Weekly Mail Bag" program is featured on Saturdays at 7:15 pm EST.

About Aerials

There are two letters about aerials, both of them rather long, but the ideas may be helpful and we'll pass them along in condensed form, so our readers may benefit from the experiences of these DXers.

George Nahas, "The Demon DXer" of Brooklyn, N. Y., says that radio reception in his locality is extremely difficult, and that reception of even the local stations is nearly impossible, with the exception of WOR. To overcome this difficulty, he erected an aerial consist-

ing only of a three-foot piece of wire and with it has brought in amateur stations on the 20 meter band from many foreign countries. With his three-foot antenna he gave most of the stations an R8-9 report, while with any other type of aerial the best he could give them was R5-6. "So, don't rush out and buy the same set your fellow DXers are using just because they are pulling in lots of stations," he advises. "Instead, consider your location, and if the location is bad, the best receiver cannot better it. Just get up on the roof and do a little experimenting with different antennas, and put in a good ground. It seems to me that nearly every location requires a different type aerial, so it is a good idea to try many different installations until the right combination is found."

The other aerial experimenter is Edwin Worthington of 7203 Short St., Vancouver, B. C. "After reading about vertical aerials in RA-DEX, I decided to see what I could do with one," his letter reads. "A search through a junk box in the basement revealed a piece of No. 10 copper wire, weather proof insulation, about 5 feet long. I hammered the end of this out flat, drilled a No. 8 hole and filed it out to make a spade tip suitable to fit on the antenna binding post of the set. The doublet aerial and the short inverted L aerial were disconnected and this single wire attached, straight up at the back of the set. The results were perfect; signal strength as good as with the inverted L; quality and selectivity equally as good; distance reached—well, that's a story in itself!

"I tried out the broadcast band first, from 8:30 until 11 pm PST, and, among others, got the following stations, all over 2200 miles away: WSB, WWL, WBT; over 1500 miles, WENR, XEP, and a host

of other stations over 1000 miles away. Considering the fact that Pacific coast stations are in full swing at this time, I think this long distance reception was quite remarkable.

"After giving the shortwaves a whirl, I decided my new aerial was just as good as the ones I had formerly used. Then I decided to try to increase its length. Since the wire in use reached to within three inches of the ceiling it was not possible to add to that end, but I attached another length of No. 10 wire to the antenna post and pointed it toward the floor. A definite increase in volume was noted, and VK3LR (now VLR) was heard much louder than ever before."

Oceanic Changes

From A. I. Breen, on vacation in Wellington, New Zealand, comes a "letter card" informing us that 2ZB, Wellington, changed frequency on January 9th from 1120 to 1130 kcs. The move was made to avoid interference from 4BC in Brisbane, which is particularly well heard in New Zealand.

Mr. Breen's not also states that 4 PM at Port Moresby, Papua, is broadcasting simultaneously on its broadcast frequency of 1360 kcs, and a shortwave frequency of 7300 kcs. He believes the latter transmitter is that of VIG. The regular schedule of 4 PM is weekdays only, 10 to 11 pm and 3 to 5 am, EST.

Around Europe

The Italian shortwave stations inform us that the popular "American Hour" is now being broadcast over IRF on 9830 kcs, as well as 2RO-3 on 9630, thus giving the shortwave listener a chance to tune to the other station should one be received badly. IRF has already been reported by many listeners.

The shortwave stations at Belgrade, Jugoslavia, send fortnightly program sheets printed in Serbian,

French, German, Turkish, Albanian and Hungarian. We believe they will be sent post free to anyone who requests them. The current program folio includes ten pages of articles about Jugoslavian people, places and industries, and the words and music of a popular Jugoslavian song, in addition to broadcast details. The Belgrade station is YUA, "Radio Beograd," on 6100 kcs.



Anne Seymour and Bob Griffin, stars of the popular NBC serial, *the Story of Mary Martin*, pose for the first picture ever taken of them together.

Digging deeper into the mail, we find a five-page letter from D. H. Dussek, Morland Hall, Alton, Hants, Gt. Britain. It is long enough, and interesting enough, to merit a column by itself . . . in fact, we believe we *will* give it a head and by-line.

Radio in England

By D. H. Dussek

The greatest excitement here this month has been the inauguration of Arabic transmissions from GSC,

Daventry. Western music has been practically eliminated from the broadcasts, and from all accounts, reception in the Near East is better than that from Rome. Since GSC and Rome operate on neighboring frequencies with Arabic programs at the same time, the stations are often confused; GSC should announce its identity more frequently.

All the broadcasting organizations in South America have been asked to publicize the coming news transmissions in Spanish and Portuguese from Daventry.

The Vatican City has a second active frequency of 5969 kcs, and power of 15 kilowatts, according to *World Radio*. Programs start at 2 pm on weekdays and 5 am on Sundays, and conclude when they have said all they want to say.

Motala, Sweden on 6062 kcs employs the call letters SBO, and on 11698 the call sign SBP is used.

Vienna, Austria transmits regularly on 6072 kcs with a power of 1.5 kilowatts. This station, call letters OER2, broadcasts on weekdays only, from 9 am to 5 pm EST.

The Norwegian station at Jeloy works on two frequencies, LKJ on 6130 and LKC on 9530 kcs. LKC transmits on the schedule shown in RADEX, and LKJ broadcasts from 11:30 am to 5:30 pm EST.

No further details on the station in the Channel Islands are available, but it has been reported that Radio Luxembourg is supplying the necessary capital.

It has been reported in the press that Italy has decided to close the station at Bologna, and to strengthen the stations at Rome, Bari and Trieste. Bologna operates on 986 kcs with a power of 50000 watts.

The new Hilversum station (Lopikerkapel) on 722 kcs with 17 kilowatts, now operates on a full schedule from 2:40 am to 6:40 pm, EST,

relaying the programs of Hilversum No. 1.

It has been reported that the British Government has requested the French Government to put a ban on advertising in English from French stations. This will concern stations Poste-Parisien on 959, Lyons on 1393, Toulouse on 913 and Radio Normandie on 1113 kcs. A law may be introduced which will reduce the power of these stations.

South African Reception

"I have been doing very well with Cuban stations lately," writes Mrs. R. S. Roche of 77 Durban St., Alwal North, Union of South Africa. "I do no night DXing, but usually rise at 5 am and get the American stations. I have heard COBZ and fourteen others from Cuba, 41 broadcast band stations in the United States and 34 shortwave stations there; one Canadian BCB and 3 shortwaves; five broadcast and three shortwave stations from Mexico; fourteen broadcast and seven shortwaves from the Argentine, and nineteen stations from the rest of South America. Iceland comes in nicely, and Europe well.

"Laurencio Marques on 6137 kcs, CR7AA, and CR7BH on 11718, are our best local stations. They are on the air daily except Sundays from midnight to 1 am, and from 4:30 to 6:30 am, EST.

"I thoroughly enjoy the Magic Key programs on Sundays, and I hope the stations keep up their present strength so I can continue to hear them."

Mrs. Roche also sent complete information on the shortwave and broadcasting stations of South Africa, which information is included in another part of this issue.

Visitors Too

While perusing a letter from Warren Winkley of Hughson, Calif., in which he tells us, among other

The Stroud Twins

things, that nothing can beat a 150-foot inverted L for broadcast band, and a 60-foot inverted L for short-waves, we are interrupted by a visit from a Lakewood lad (whose name we do not know) who wants to know if it is *really* possible to hear Guatemala on the broadcast band. Well, what could we do but tell him to try for TG1 on 1510, the best Guatemalan station in these parts, and we also told him that while he was at it, he might as well tune for LR1, Buenos Aires, on 1070. Both of them are pretty good stations. Before we had a chance to finish Warren's letter, though, Jack Siringer dropped in and gave us the latest dope on LR1. He is hearing it from R7 to R9 between 2 and 3 in the mornings, testing for Brussels and Washington. Jack also told us that TG1 has only 250 watts, but it is better than TGW; and he said that TGW is really on 1230 kcs, despite the fact they still show 1210 on their cards.

The morning is now fairly well spent, and we have to hurry through the rest of the letters. Mr. Winkley's letter included a note for Kenneth Pierce of Worcester, Mass., answering a question asked in RA-DEX. He says, "Regarding CFAC on 1-22-38 at 4:05 am EST they signed off 930 kcs with 1 kw and announced they would return at 9:30 EST that morning."

A card from CMQ 600 kcs, Havana, indicates that their programs are relayed by COCQ on 9740 kcs, and their slogan seems to be "Del Jabon Candado." The owners are Cambo y Gabriel, S. A.

Sr. Barbarrosa of *Radiomania*, Havana, announces that Cuba became the first nation to sign the treaty drawn up by the Telecommunications Conference in Havana last December, when the President of Cuba affixed his signature on December 22, seven days after the conference closed.

Coming into radio when listeners were just about fed up with over-emphasis of comedy punch-lines, the almost lackadaisical comedy attack of the Stroud Twins has caught on—but definitely.

Clarence and Claude are their names, and they are regularly heard on the Chase and Sanborn Hour with Nelson Eddy, Edgar Bergen and Charlie McCarthy, and Dorothy Lamour.

The Strouds were born in Kaufman, Texas, which is near Dallas. Identical twins they were the cause of much confusion from the very start.

When they were boys in Texas, a friend of the family used to take Clarence out driving in a buggy. This woman, who was rather elderly, didn't like Claude at all, thought he was a very stupid boy. She was one of the few townspeople who claimed she could always tell them apart.

Mistaken Identity

One day the twins' mother reversed the ribbons they had been wearing around their wrists, one pink and one blue. Claude went for the next buggy ride. Afterwards the elderly lady told Claude's mother how much smarter Clarence was getting every day.

"Growing up in the show-business" is a well-worn phrase but it fits the Stroud boys to perfection. When they were just youngsters, their uncle took them to a vaudeville show in Dallas which featured acrobats. The pair practiced what they had seen in the back yard of their home for months.

Satisfied that they had perfected an act, they tried it out before an agent for John Robinson's Circus.

That was in 1922 and they were 12 years old. They stayed with the outfit for two years during which time they saved practically nothing.

When the Strouds decided to part company with the big top, they returned to their original idea of appearing in vaudeville. They hopped a freight-train for St. Louis which was a big booking center in the then prosperous days of vaudeville. They started out in small-time vaudeville where they met up with "a hard-shoe family"—a dancing act. The two acts traded lessons, the Stroud Twins adding a new phase to their pantomime.

Become Articulate

They finally reached the mecca of vaudeville artists—the Palace Theater, New York—in 1927. Oddly enough, it was here they first added talk to their act. The audience was so enthused, they kept calling them back for more and more. Finally, in desperation, they resorted to an old vaudeville trick to get off-stage. They made a curtain speech.

Clarence, in his nervousness, talked on and on. Claude looked bored. Claude finally got an unenthusiastic word in and the audience roared. It was the birth of their comic style, for they continued to talk some in all their skits.

The bottom fell out of the vaudeville market a little sooner than the stock-market. The Strouds did the same as Edgar Bergen when this happened and left the country. They toured for a year in Australia in 1928.

Returning to the United States, they managed to work in vaudeville with night-clubs filling in when the going was thin. For three years, from 1933 to 1936, the team was split up while Claude was writing for one of the picture companies in Hollywood.

Never Thought of Radio

Last year, they returned to activity in the night-clubs, but never



Opal Craven, known to millions of radio listeners from coast to coast as the Lullaby Lady on the Contented program, has been busy every minute of her life. At the time when other little girls her age were busy with their dolls, she was spending long hours studying the clarinet, saxophone, trumpet, piano, and playing in Chataouqua auditorium from Nome to New Orleans.

even thought of radio. Their act was still two-thirds "silent." Until they were on Rudy Vallee's Royal Variety Hour, they had never seen the inside of a broadcasting studio.

Now that radio looks like their big chance for fame, they have decided that it's pretty interesting work but they do regret the fact that all those acrobatic stunts they've worked on for years must wait for television. Some of their tricks are "exclusives," too. That is, they can't be done by any other act.

A scout for Rudy Vallee's program caught their act in the Rainbow Room, made a note to audition them. They got a hurry call one day to report for the audition as there was an open spot in the next broadcast.

The pair turned in two smash appearances on the Vallee stanza and were rushed to Hollywood for regular appearances on the Chase and Sanborn Hour. As they left New York one turned to the other and said, "Say, Stroud, if we're going to be on there with Bergen, we've got to be funny." And they have been.

We are advised by Stanley B. LaRue, president of the Before Breakfast DX Club, that dues in his organization are \$1.50 per year, which entitles members to bi-weekly bulletins and free membership in the Quixote Radio Club. A sample bulletin will be sent for five cents on request to Mr. La Rue at 309 S. Bedford Drive, Beverly Hills, Calif.

The MONTH'S CHANGES in STATION DATA

This information is compiled just before we go to press, after the forms for most of the other pages are closed. Some very recent changes, received too late to index in this issue, are included here, and will be incorporated next month in our main indices.

NORTH AMERICAN BROADCAST			810	CMCF	Havana, Cuba, to 5000
NEW			850	WWL	New Orleans, La., to 50000
960	CMKS	Guantanamo, Cuba	880	CMW	Havana, Cuba, to 5000
1280	XEXM	Mexico City, D. F.	880	WCOO	Meridian, Miss., to 1000
1310	WGAU	Athens, Ga. J. K. Patrick & Co.	900	KGBU	Ketchikan, Alaska, to 1000
1500	KWEW	Hobbs, N. Mex. W. E. Whitmore	920	CMX	Havana, Cuba, to 10000
REINSTATED			950	WRC	Washington, D. C., to 1000 (5)
780	XEN	Mexico City, D. F.	1000	CMBZ	Havana, Cuba, to 5000
1250	KXOK	St. Louis, Mo. Star-Times Pub. Co.	1110	CMCJ	Havana, Cuba, to 5000
1300	CMCR	Havana, Cuba	1170	CMBS	Havana, Cuba, to 5000
1500	KUTA	Salt Lake City, Utah	1190	WATR	Waterbury, Conn., to 250
FREQUENCY			1240	KLPM	Minot, N. Dak., to 500 (1)
630	CMCD	Havana, Cuba, from 950	1250	WCAL	Northfield, Minn., to 5000
950	CMBC	Havana, Cuba, from 630	1250	WLB	Minneapolis, Minn., to 5000
1100	XEL	Mexico City, D. F., from 780	1260	CMBD	Havana, Cuba, to 5000
1120	XEJP	Mexico City, D. F., from 1130	1300	KALE	Portland, Ore., to 1000
1170	CMBS	Havana, Cuba, from 770	1310	KINY	Juneau, Alaska, to 250
1260	CMBD	Havana, Cuba, from 1170	1310	WOL	Washington, D. C., to 1000
1290	CMCU	Havana, Cuba, from 1280	1340	WCOA	Pensacola, Fla., to 1000
POWER			1350	CMCA	Havana, Cuba, to 5000
810	XEDF	Nuevo Laredo, Tams., 100 from 75	1420	KABR	Aberdeen, S. Dak., to 500 (1)
1410	CMCQ	Havana, Cuba, 5000 from 250	1430	WBNS	Columbus, Ohio, to 1000 (5)
NETWORK			1490	KFBK	Sacramento, Calif., to 10000
840	CBL	Toronto, Ont., new CBC	PERMIT TO CHANGE LOCATION		
1210	KROY	Sacramento, Calif., new CBS	570	KGKO	Wichita Falls, Tex., to Fort Worth
1310	KARM	Fresno, Calif., new CBS	FOREIGN BROADCAST		
1310	KTSM	El Paso, Texas, new NBC	NEW		
1310	WBRE	Wilkes-Barre, Pa., new NBC	601	.....	Athens, Greece, 15000 w.
1310	WBRK	Pittsfield, Mass., new CBS	660	XGZ	Nanking, China, 10000 w.
1370	KGAR	Tucson, Ariz., new CBS	1333	.....	Thessalonica, Greece.
DELETE			FREQUENCY		
840	CRCT	Toronto, Ont.	560	XHHK	Shanghai, China, from 620
1110	CMCH	Havana, Cuba	620	NLHB	Shanghai, China, from 550
OWNER			720	XHHB	Shanghai, China, from 740
1210	CJCS	Stratford, Ont., Frank M. Squires	760	NMHD	Shanghai, China, from 840
PERMIT TO CHANGE FREQUENCY			800	XLHA	Shanghai, China, from 780
1190	WATR	Waterbury, Conn., to 1290	860	XLHG	Shanghai, China, from 640
1240	KLPM	Minot, N. Dak., to 1360	860	2BH	Broken Hill, NSW, from 1060
1250	WCAL	Northfield, Minn., to 760	880	4WK	Warwick, Qsld., from 1340
1250	WLB	Minneapolis, Minn., to 760	890	XHHV	Shanghai, China, from 880
1310	KINY	Juneau, Alaska, to 1430	970	NMHB	Shanghai, China, from 980
1310	WOL	Washington, D. C., to 1230	1000	4CA	Cairns, Qsld., from 1390
1420	KABR	Aberdeen, S. Dak., to 1390	1080	XHHG	Shanghai, China, from 1020
PERMIT TO CHANGE POWER			1470	3MB	Birchip, Vic., from 1490
570	CMCY	Havana, Cuba, to 10 kw	OWNER		
570	KGKO	Wichita Falls, Tex., to 1000 (5)	1050	2CA	Canberra, FCT, Canberra Broadcasters, Ltd.
590	WKZO	Kalamazoo, Mich., to 250 (1)			

The Columbia Broadcasting System

The Columbia Broadcasting System is divided into the following groups:

North Round Robin (NRR); Dixie (D); Northwest (NW); Southwest (SW); Midwest (MW); Midwest and West (MWW); Southwest and West (SWW); and the Pacific Network (PN).

Akron, Ohio	(NRR)	WADC
Albany, N. Y.	(NRR)	WOKO
Anderson, S. C.	(D)	WAIM
Atlanta, Ga.	(D)	WGST
Atlantic City, N. J.		WPC
Augusta, Ga.	(D)	WRDVI
Austin, Texas	(SW)	KNOW
Baltimore, Md.		WCAO
Bangor, Maine	(NRR)	WLBZ
Binghamton, N. Y.	(NRR)	WNBF
Birmingham, Ala.	(D)	WAPI
Boston, Mass.	(NRR)	WEEI
Buffalo, N. Y.	(NRR)	WGR
Buffalo, N. Y.	(NRR)	WKBBV
Charleston, W. Va.		WCHS
Charlotte, N. C.	(D)	WBT
Chattanooga, Tenn.	(D)	WDOD
Chicago, Ill.	(NRR)	WBBM
Cincinnati, Ohio		WKRC
Cleveland, Ohio	(NRR)	WGAR
Colorado Springs, Colo.	(MWW)	KVOR
Columbus, Ohio		WBNS
Dallas, Texas	(SW)	KRLD
Davenport, Iowa	(NW)	WOC
Dayton, Ohio		WHIO
Des Moines, Iowa	(NW)	KRNT
Detroit, Mich.	(NRR)	WJR
Denver, Colo.	(MWW)	KLZ
Dubuque, Iowa	(NW)	WKBB
Duluth, Minn.	(NW)	KDAL
Durham, N. C.	(D)	WDNC
Elmira, N. Y.	(NRR)	WESG
Evansville, Ind.		WEOA
Fairmont, W. Va.		WMMN
Fresno, Calif.	(PN)	KARM
Great Falls, Mont.	(PN)	KFBB
Green Bay, Wis.	(NW)	WTAQ
Greenboro, N. C.	(D)	WBIG
Harrisburg, Pa.		WHP
Hartford, Conn.	(NRR)	WDRG
Hibbing, Minn.	(NW)	WMTG
Honolulu, Hawaii		KGMB
Houston, Texas	(SW)	KTRH
Indianapolis, Ind.		WFBI
Jacksonville, Fla.	(D)	WMBR
Kansas City, Mo.	(NW)	KMBC
Knoxville, Tenn.	(D)	WNOX
La Crosse, Wis.	(NW)	WKBB
Lincoln, Nebr.	(NW)	KFAB
Little Rock, Ark.	(D)	KLRA

Los Angeles, Calif.	(PN)	KNX
Louisville, Ky.		WHAS
Macon, Ga.	(D)	WMAZ
Mason City, Iowa	(NW)	KGLO
Memphis, Tenn.	(D)	WREC
Meridian, Miss.	(D)	WCOC
Miami, Fla.	(D)	WQAM
Milwaukee, Wis.	(NW)	WISN
Minneapolis, Minn.	(NW)	WCCO
Missoula, Mont.	(PN)	KGVO
Mobile, Ala.	(D)	WALA
Montgomery, Ala.	(D)	WSFA
Montreal, P. Q.	(NRR)	CKAC
Nashville, Tenn.	(D)	WLAC
New Orleans, La.	(D)	WWL
New York, N. Y.		WABC
New York, N. Y.	(Shortwave)	W2XE
Oklahoma City, Okla.	(SW)	KOMA
Orlando, Fla.	(D)	WDBO
Parkersburg, W. Va.		WPAR
Pensacola, Fla.	(D)	WCOA
Peoria, Ill.	(NW)	WMBD
Philadelphia, Pa.		WCAU
Philadelphia, Pa.	(Shortwave)	W3XAU
Phoenix, Ariz.	(PN)	KOY
Pittsburgh, Pa.		WJAS
Pittsfield, Mass.	(NRR)	WBRK
Portland, Ore.	(PN)	KOIN
Providence, R. I.	(NRR)	WPRO
Reno, Nev.	(PN)	KOH
Richmond, Va.	(D)	WRVA
Roanoke, Va.	(D)	WDBJ
Rochester, N. Y.	(NRR)	WHIC
Sacramento, Calif.	(PN)	KROY
St. Louis, Mo.		KMOX
Salt Lake City, Utah	(MWW)	KSL
San Antonio, Texas	(SW)	KTSA
San Francisco, Calif.	(PN)	KSFO
Savannah, Ga.	(D)	WTOC
Seranton, Pa.	(NRR)	WGBI
Seattle, Wash.	(PN)	KIRO
Shreveport, La.	(SW)	KWKH
Sioux City, Iowa	(NW)	KSCJ
South Bend, Ind.	(NRR)	WSBT
Spokane, Wash.	(PN)	KFPY
Springfield, Mass.	(NRR)	WMAS
Springfield, Vt.	(NRR)	WNBX
Syracuse, N. Y.	(NRR)	WFBL
Tacoma, Wash.	(PN)	KVI
Tampa, Fla.	(D)	WDAE
Topeka, Kans.	(SW)	WIBW
Toronto, Ont.	(NRR)	CFRB
Tucson, Ariz.	(PN)	KGAR
Tulsa, Okla.	(SW)	KTUL
Utica, N. Y.	(NRR)	WIBX
Virginia, Minn.	(NW)	WHLB
Waco, Texas	(SW)	WACO
Washington, D. C.		WJVS
West Palm Beach, Fla.	(D)	WJNO
Wheeling, W. Va.		WWVA
Wichita, Kans.	(SW)	KFH
Wichita Falls, Tex.	(SW)	KGKO
Winston-Salem, N. C.	(D)	WSJS
Worcester, Mass.	(NRR)	WORC
Yankton, S. Dak.	(NW)	WNAX
Youngstown, Ohio	(NRR)	WKBN

In response to demands of our readers, we will resume publication of the complete shortwave lists, in our April issue. Like our lists of four years ago, this new compilation will include frequencies, call letters, locations, power, addresses, indication signals and all other available information.

When to Get the DAY'S NEWS

• • • Network News Flashes

E-Midn't., C-11:00 p.m., M-10:00, P-9:00

Don Lee System, Daily
KDB KDON KFRC KFXXM KGB KGDMD KHJ KPNC KQW KVOE
KXO

E-1:00a.m., C-Midn't., M-11:00 p.m., P-10:00

Don Lee System, Sunday only
Same stations as at Midnight.

E-1:15 a.m., C-12:15, M-11:15 p.m., P-10:15

CBC—Daily
To CBC Pacific Network.

E-7:30 a.m., C-6:30, M-5:30, P-4:30

Michigan Radio Network, Daily, WXYZ

E-9:25 a.m., C-8:25, M-7:25, P-6:25

CBS—Press Radio, Monday through Friday

KCAC KLRA KMOX WABC WADC WAIM WALA WBIG WCHS WCOC WDAE WDBO WDRG WEEI WESG WFBL WHIO WHP WIBX WJAS WJNO WKBW WLBZ WMAS WMBR WMMN WNBW WOKO WORC WPAR WPG WPRO WQAM WREC WRVA WSBT WSJS

E-9:40 a.m., C-8:40, M-7:40, P-6:40

NBC Red, Press Radio, Weekdays
To stations available

E-9:55 a.m., C-8:55, M-7:55, P-6:55

CBS—Press Radio, Sat. and Sunday
KCAC KLRA KMOX WABC WADC WAIM WALA WCHS WCOC WDAE WDBJ WDBO WEEI WESG WFBL WFBM WHEC WHIO WIBX WJNO WJR WJSV WLBZ WMAS WMBR WMMN WNBW WOKO WORC WPAR WQAM WREC WRVA WSFA WSJS WTOG

Blue—Daily except Sunday
To stations available

E-10:45 a.m., C-9:45, M-8:45, P-7:45

Don Lee System, Daily except Sunday
Same stations as at Midnight

E-11:00 a.m., C-10:00, M-9:00, P-8:00

NBC-Blue—Press Radio, Sunday
To stations available

NBC-Red—Press Radio, Sunday
To stations available.

E-Noon, C-11:00 a.m., M-10:00, P-9:00

Michigan Radio Network, Daily
WASH WBCM WELL WFDN WIBM WJIM WKZO WOOD WXYZ

E-12:15 p.m., C-11:15 a.m., M-10:15, P-9:15

CBS—Edwin C. Hill, Monday through Friday

KFAB KFH KGKO KLRA KMBC KMOX KNOW KOMA KRLL KRNT KSCJ KTRH KTSa KTUL KWKH WABC WACD WADW WALA WBBM WBIG WBNS WBRC WBT WCAO WCAU WCCO WCHS WCOA WCOC WDAE WDBJ WDBO WDCN WDDO WDRG WEEI WFBL WGR WGST WHAS WHEC WHIO WHP WIBX WJAS WJR WJSV WKBB WKBN WKRC WLAC WLBZ WMAS WMAZ

WMBD WMBR WMMN WNAW WNBW WNOX WOC WOKO WORC WPG WPRO WQAM WREC WRVA WSFA WSJS WTQC WWL WVVVA

E-2:00 p.m., C-1:00, M-12:00, P-11:00

CBS—Monday, Wednesday, Friday
KFAB KFH KLRA KMOX KNOW KOMA KRLL KRNT KSCJ KTRH KTSa KTUL KWKH WABC WADC WBBM WBNS WBRC WBT WCAO WCAU WCCO WDCR WEEI WFBL WFBM WGST WHAS WHEC WHIO WISN WJAS WJR WJSV WKBB WKBW WKRC WLAC WLBZ WMBR WNBW WOKO WORC WPRO WQAM WREC WRVA WWL

E-3:00 p.m., C-2:00, M-1:00, P-Noon

Don Lee System, Saturday
Same stations as at Midnight

E-3:15 p.m., C-2:15, M-1:15, P-12:15

Don Lee Sys., Mon. through Fri.
Same stations as at Midnight

E-5:00 p.m., C-4:00, M-3:00, P-2:00

Michigan Network, Daily
WASH WBCM WELL WFDN WIBM WJIM WKZO WOOD WXYZ

E-5:10 p.m., C-4:10, M-3:10, P-2:10

Blue, Monday through Friday
To stations available

E-5:30 p.m., C-4:30, M-3:30, P-2:30

CBS—Monday, Wednesday, Friday
KFBB KFPY KLZ KMBC KNX KOIN KOL KOY KSFO KSL KVI

E-6:25 p.m., C-5:25, M-4:25, P-3:25

CBS—Press Radio, Saturday
Available to entire Network

E-6:30 p.m., C-5:30, M-4:30, P-3:30

CBS—Press Radio, Mon., Tues., Thurs., Fri.

KFH KLRA KNOW KOMA KSCJ KSL KTRH KWKH WABC WACO WADC WAIM WALA WBIG WBRC WCCO WCOC WDAE WDBJ WDBO WDDO WHEC WISN WJAS WJNO WJR WKBB WKBW WLBZ WMAS WMBR WOC WORC WPAR WQAM WREC WSFA WSJS WTAQ WTOG WVVVA

NBC—Red, Press Radio, Weekdays
To all stations available

Blue—Saturday only
To all stations available

E-6:40 p.m., C-5:40, M-4:40, P-3:40

CBS—Wednesday only
To all stations available

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

NBC-Blue—Lowell Thomas, Mon. through Fri.

CRCT KDKA WBAL WBZ WBAZ WEAN WEBR WFLA WHAM WIOD WJAX WJZ WLV WMAI WOOD WHTD WSPD WSUN WSYR WTAM WXYZ

Don Lee Sys., Mon. through Fri.
Same stations as at Midnight

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

CBC—Monday through Friday
To CBC French Network

Blue—Tuesday only
WBAL WBZ WBZA WENR WHAM WJZ WSYR

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

CBS—Boake Carter, Mon., Wed., Fri.
KFAB KFH KLRA KMBC KMOX KNOW KOMA KRLL KRNT KTRH KTSa KTUL WABC WADC WBBM WBNS WBRC WBT WCAO WCAU WCCO WDAE WDBO WDDO WDRG WEEI WFAM WFBL WGR WGST WHAS WHEC WHIO WISN WJAS WJR WJSV WKBN WKRC WLAC WLBZ WMBD WMBR WNOX WOKO WORC WPRO WQAM WREC WRVA WWL

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

Blue—March of Time, Thursday
KDKA KECA KERN KFBB KEEL KFDL KGA KGO KJR KLO KMJ KOL KSO KWG KWK KXYZ WABY WBAL WBZ WBZA WCKY WCOL WEBR WFIL WHAM WJZ WMAI WMPW WMT WQVO WREN WFDN WSYR WTCN WXYZ

CBS—Tuesday only
KNX KSFO

E-9:45 p.m., C-8:45, M-7:45, P-6:45

Don Lee System, Daily
Same stations as at Midnight

Michigan Network, daily
WASH WBCM WELL WFDN WIBM WJIM WKZO WOOD

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

Blue—Tuesday, Wednesday
KDKA KOIL KSO KWK WBAL WBZ WBZA WCKY WEAN WEBR WFIL WHAM WHK WICC WJZ WJS WMAI WMT WQVO WREN WSPD WSYR WTCN WXYZ

E-10:15 p.m., C-9:15, M-8:15, P-7:15

Michigan Radio Network, Daily
WXYZ

E-10:45 p.m., C-9:45, M-8:45, P-7:45

CBC—Daily except Saturday

To National and French Networks
Red—Friday only

KDYL KFT KGW KHQ KOA KOMO KPO KSD KPTV KYW WBBN WCAE WCHS WDAF WDEL WEA WFBR WGY WIRE WJAR WLV WMAQ WNAO WOV WRC WTAG WTAM WTIC WWJ

E-11:00 p.m., C-10:00, M-9:00, P-8:00

CBC—Daily

To National and French Networks

Blue, Sunday, Press Radio
Available to Entire Network

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

CBS—Boake Carter, Mon., Wed., Fri.
KFPY KLZ KNX KOIN KOL KSFO KSL KVI WFM

E-11:30 p.m., C-10:30, M-9:30, P-8:30

Red—Sunday only
To all stations available

CBC—Saturday
To National and French Networks

WHAT'S ON THE AIR TONIGHT

Fill in the calls and frequencies of the stations through which you best receive the network programs. You can then turn quickly to the one that has the feature you want.

Network	Stations
Canadian (CBC)	
Columbia (C)	
Mutual (M)	
National Red (R)	
National Blue (B)	

Time: E Eastern; C Central; M Mountain; P Pacific

While these programs are correct at the time of going to press, changes are made frequently.

MONDAY

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

B — Lowell Thomas

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

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

C — Poetic Melodies; Jack Fulton
WABC WADC WBT WCAO WCAU
WDRG WEAN WEEI WFBL WGR
WIBC WHK WJAS WJR WJSV
WKRC WOKO WSPD WTOG WWVA

R — Amos 'n' Andy

KSD KSTP KYW WBN WCAE
WCNH WEAF WFBR WGY WHO
WJAR WLW WNAZ WRC WTAG
WTAM WTIC WWJ

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

R — Uncle Ezra's Radio Station

KARK KFYR KGBX KGNK KPRC
KSTP KTBS KTUS KVOO KYW
WHPA WBN WCAE WCKY WCOL
WCNH WDAF WDAY WEAF WECB
WFAA WFRB WGBF WGY WHO
WIBA WIRE WJAR WKY WMAQ
WNAZ WQAI WOOD WOW WRC
WTAG WTAM WTIC WTMJ

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

B — Lum and Abner

WBZ WBZA WENR WJZ WLW
WMC WSA WSYR

M — The Lone Ranger

WFIL WNBW WSYR WOR WXYZ

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

C — Boake Carter

KMBC KMOXKOMA KRLD WABC
WBMM WBT WCAU WCOO WDRG
WEAN WFIL WGR WHAS WHK
WJAS WJR WJSV WKRC WNAZ

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

R — Burns and Allen

CRCT KYW WBN WCAE WCSC
WCNH WEAF WFBR WFLA WGY
WHO WIOD WIRE WIS WJAR
WJAX WLW WMAQ WNAZ WPTF
WRC WRVA WSOB WTAG WTAM
WTAR WTIC WWJ

B — Melody Puzzles; Harry Salter

KANS KDKA KICA KERN KFRK
KFDM KFEL KFSB KGA KGHF
KGHL KGIR KGO KGW KIDO
KJR KLO KMJ KOB KOIL KRGV
KRIS KSO KTAZ KTMS KTSM

KVOC KWK KXYZ WABY WAGA
WBAL WBOW WBRE WBZ WBZA
WCKY WOOL WDSU WEAN WEBR
WFEA WFIL WGL WHAM WHK
WICC WJBO WJTN WJZ WLEU
WLS WMAL WMPS WMT WORK
WRFN WROL WRTO WSAN WSGN
WSPD WSYR WXYZ

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

C — Pick and Pat

KFAB KMBC WABC WADC WBMM
WBT WCAO WCAU WDRG WEAN
WFIL WGR WGST WHRC WHK
WHP WICC WJAS WJR WJSV
WKRC WLBZ WMAS WNAZ WOKO
WORC WSPD

R — Voice of Firestone

CFCF CRCT KFYR KPRC KSD
KSTP KTBS KVOO KYW WAVE
WBN WCAE WCSC WDSH WDAF
WDAY WEAF WECB WEEI WFAA
WIBC WFRB WFLA WGY WHO
WIBA WIOD WIRE WIS WJAR
WJAX WJDX WKY WMAQ WMC
WQAI WOW WPTF WRC WRVA
WRS WSM WSMB WSOB WTAG
WTAM WTAR WTIC WTMJ WWJ
WVNC

B — Campana's Grand Hotel

KDKA KFEL KFI KFSB KGA KGO
KGW KJR KLO KOIL KSO KWK
WBAL WBZ WBZA WCKY WEAN
WEBR WFIL WHAM WHK WICC
WJZ WLS WMAL WMT WOTO
WREN WSPD WSYR WXYZ

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

B — Philadelphia Symphony

KFEL KGO KSO KVOD KWK
KXYZ WBAL WBZ WBZA WEAN
WEBR WENR WFIL WHAM WJTN
WJZ WLS WMAL WREN WRTO
WSPD WSYR WTCN WXYZ

C — Lux Radio Theater

CFRB CKAK KFAB KFH KFPY
KLRA KLZ KMBC KMOX KNOV
KNX KOH KOIN KOL KOMA
KRLD KRNT KSFQ KSL KTRH
KTSB KTUL KVI WABC WADC
WBMM WBNS WBRC WBT WCAO
WCOO WDAE WDBJ WDRG WEEI
WFBL WFBM WGAR WGST WHAS
WHFC WHIO WIBX WISN WJAS
WJR WJSV WKBW WKRC WLAC
WMAS WMDB WNAX WOKO WORL
WPRO WQAM WREC WRVA WWC

Also on Canadian Network

R — Fieber McGee and Molly

KFYR KPRC KSD KSTP KTBS

KVOC KYW WAVE WBN WCAE
WCOL WCNH WDAF WDAY WEAF
WECB WFAA WFBR WFLA WGY
WHO WIBA WIOD WIRE WIS
WJAR WJAX WJDX WLW WMAQ
WMC WNAZ WQAI WOOD WOW
WPTF WRC WSB WSM WSMB
WSOC WSNB WTAG WTAM WTAR
WTIC WTMJ WWJ WVNC

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

R — Phil Spitalny's Girl Orchestra

CFCF CRCT KDYL KFI KGHL
KGIR KGO KGW KHQ KOA KOMO
KPRC KSD KSTP KVOO KYW
WAVE WBN WCAE WCNH WDAF
WEAF WFAA WFBR WFLA WGY
WHO WIBA WIOD WIRE WIS
WJAR WJAX WKY WLW WMAQ
WMC WNAZ WQAI WOV WPTF
WRC WRVA WSB WSM WSMB
WTAG WTAM WTAR WTIC WTMJ
WWJ

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

R — Contented Program

CFCF CRCT KDYL KFI KGW KHQ
KOA KOMO KPO KPRC KSD KYW
WBN WCAE WCNH WDAF WEAF
WEEI WFBR WFLA WGY WHO
WIOD WIS WJAR WJAX WKY
WMAQ WMC WQAI WOW WPTF
WRC WRVA WSB WSM WTAG
WTAM WTAR WTIC WWJ WVNC
Also on Canadian Network

B — Warden Lewis E. Lawes

KDKA KECB KFSB KGA KGO
KJR KLO KOIL KSO KWK
WBAL WBZ WBZA WCKY WEAN
WEBR WENR WFIL WHAM WHK
WICC WJZ WMAL WMT WOWO
WREN WSPD WSYR WTCN WXYZ

C — Wayne King and Orchestra

KDB KERN KFAB KFBK KFPY
KPRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRNT KSL KVI
KVG WAAB WABC WADC WBMM
WBNS WBT WCAO WCAU WCOO
WDRG WEAN WFBL WFBM WHAS
WHK WFBW WJAS WJR WJSV
WKBW WKRC WOKO WSPD WWL

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

C — Brave New World

Available to entire network

R — Burns and Allen

KARK KDYL KFBK KFI KFYR
KFBX KGHL KGIR KGNK KGO
KGW KHQ KMJ KOA KOMO KPO

MONDAY (Continued)

KPRC KSD KSTP KTAR KTBS
KVOO KWG WAVE WDAF WDAY
WBCB WFAA WIBA WJDX WJY
WMC WOAI WOW WSB WSMB
WTMJ

M — The Lone Ranger

KDB KDON KPRC KFXM KGB
KGM KHJ KPMC KVOE KXO
Available also to West Coast Section

E-11:00 p.m., C-10:00, M-9:00, P-8:00

C — Poetic Melodies; Jack Fulton
KERN KFAB KFBK KFPY KFRC
KGB KHJ KLRA KLZ KMBC KMOX
KON KOL KOMA KRLD KRNT
KSL KTRH KTSA KVI WBBM
WBRC WCCO WFBM WGST WLAC
WREC WWL

R — Amos 'n' Andy

KDYL KERN KFBK KFI KGW
KHQ KMJ KOA KOMO KPO KPRC
KSD KWG WDAF WFAA WHO
WIRE WKY WMAQ WMC WOAI
WOW WSB WSM WSMB

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

C — Boake Carter
KFPY KLZ KNX KOIN KOL KSFQ
KSL KVI

B — Lum and Abner

KFCA KERN KEX KFBK KFSD
KGA KGO KJR KMJ KWG

E-11:30 p.m., C-10:30, M-9:30, P-8:30

C — Pick and Pat
KFPY KGKO KLRA KLZ KMOX
KNX KOIN KOL KOMA KRLD
KRNT KSCJ KSFQ KSL KTUL
KVI KWKH WAO WBRC WCCO
WFBM WHAS WLAC WREC

TUESDAY

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

B — Lowell Thomas, See Monday

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

C — Poetic Melodies, See Monday
R — Amos 'n' Andy, See Monday
B — Easy Aces

KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO KSO KWK WHAL
WBZ WBZA WKY WENR WFIL
WGAR WHAM WHIO WIRE WJZ
WMAL WMT WSYR WXYZ

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

C — Geo. McCall, Hollywood Talk
KFAB KFH KLRA KMOX KNOW
KOM KRLD KRNT KTRH KTSA
KWKH WABC WADC WBBM WBNS
WBT WCAO WCAU WCCO WCHS
WDAE WDRO WDOE WDRG WEEI
WFBL WGAR WGBI WGST WHAS
WHFC WHIO WIBW WISN WJAS
WJR WJSV WKRC WLAC WMAZ
WMBR WOC WOKO WORC WPRO
WQAM WREC WRVA WWL

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

C — Helen Menken, Drama
KFAB KFPY KIRO KLZ KMBC
KMOX KNX KOIN KRNT KSFQ
KSL KVI WABC WBBM WCAO
WCAU WDRG WEEI WFBL WGAR
WGR WHAS WHFC WHIO WJAS
WJR WJSV WKRC WOKO WORC
WPRO

B — Dorothy Thompson; News

WBAL WJZ WBZA WENR WHAM
WJZ WSYR

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

R — Johnny with Russ Morgan
KFYR KPRC KSD KSTP KTBS
KTHS KVOO KYW WAVE WBAP
WBEN WCAE WCSH WDAF WDAY
WEAF WECB WFBF WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WNAZ WOW WPTF WRIC
WRVA WSB WSM WSMB WSOZ
WSUN WTAG WTAM WTAR WTC
WTMJ WWJ WWNC

C — Edward Robinson; Claire Trevor

CBM CFRB KFAB KFH KFPY
KIRO KLRA KIZ KMBC KMOX
KNOW KNX KOIN KOMA KRLD
KRNT KSFQ KSL KTRH KTSA
KTUL KVI WABC WADC WBBM
WBNS WBRC WBT WCAO WCAU
WCCO WDAE WDBJ WDRG WEEI
WFBL WFBM WGAR WGR WGST
WHAS WHFC WHIO WIBX WISN
WJAS WJR WJSV WKRC WLAC
WMAZ WMBD WNAZ WOKO WORC
WPRO WQAM WREC WRVA WWL
Also on Canadian Network

B — Those We Love

KDKA KFEL KFI KFSD KGA KGO
KJR KLO KOIL KSO KWK WAHY
WBAL WBZ WBZA WKY WNEA
WBRF WFIL WHAM WHK WICC
WJZ WLS WMAL WMT WREN
WSPD WSYR WXYZ

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

C — Al Jolson; Parkyakarkus
CFRB CRCM KFAB KFH KLRA
KMBC KMOX KNOW KOMA KRLD
KRNT KTRH KTSA KTUL WABC
WADC WBBM WBNS WBRC WBT
WCAO WCAU WCCO WDAE WDBJ
WDRG WEEI WFBL WFBM WGAR
WGR WGST WHAS WHFC WHIO
WIBX WISN WJAS WJR WJSV
WKRC WLAC WMAZ WMBD WNAZ
WOKO WORC WPRO WQAM WREC
WRVA WWL
Also on Canadian Network

R — Wayne King and Orchestra

KFYR KPRC KSD KSTP KTBS
KVOO KYW WAVE WBAP WBEN
WCAE WKY WCSH WDAF WDAY
WEAF WECB WEEI WFBF WGY
WHO WHIO WIBA WIRE WJAR
WJDX WKY WMAQ WMC WOAI
WOW WRC WSB WSM WSMB
WTAG WTAM WTC WTMJ WWJ

B — Edgar Guest, It Can Be Done

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

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

C — Al Pearce and Gang
CFRB CFAC KFAB KFH KGKO
KLRA KMBX KMOX KOMA KRLD
KRNT KSCJ KTRH KTSA KTUL
KWKH WABC WACO WADC WALA
WBBM WHIG WBNS WBRC WBT
WCAO WCAU WCCO WDAE WDBJ
WDBO WDNC WDOE WDRG WEA
WFBL WFBM WFEA WGST WHAS
WHFC WHK WHP WIBW WIBX
WICK WISN WJAS WJR WJSV
WKBH WKBN WKWB WKRC
WLAC WLWB WMAZ WMBD WMBG
WMBR WAIMN WNAZ WNAZ
WNBF WNOX WOC WOKO WORC
WOW WPG WQAM WREC WSBT
WSFA WSJS WSPD WTCO WWL

R — Vox Pop; Sidewalk Interviews

KSD KYW WBN WCAE WKY
WCSH WDAF WFAF WEEI WFBF
WGY WHO WIRE WJAR WMAQ
WOW WRC WTAG WTAM WTC
WWJ

B — Horace Heidt Orchestra

KANS KDKA KFI KFSD KGA KGO
KGW KJR KLO KOIL KPRC KSO
KTHS KWOD KWK WAVE WBAL
WBAP WBZ WBZA WENR WFBF
WFIL WFLA WHAM WHK WICC
WIOD WIS WJAX WJZ WKY WLS
WLW WMAL WMC WMT WOAI
WPTF WREN WSB WSM WSMB
WSOZ WSPD WSUN WSYR WTAR
WTCN WXYZ

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

R — Hollywood Mardi Gras
CFCE CRCT KDYL KFI KGHL
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KTBS KVOO
KYW WAVE WBAP WBEN WCAE
WCOL WCSB WCSH WDAF WDEL
WEAF WECB WFBF WFLA WGY
WHO WIBA WIOD WIRE WIS
WJAR WJAX WKY WMAQ WMHG
WMC WNAZ WOAI WOOD WOW
WRC WSB WSM WSMB WSOZ
WTAG WTAM WTAR WTCO WTMJ
WWJ

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

C — Benny Goodman's Orchestra
KFAB KFH KFPY KGKO KIRO
KLRA KLZ KMBC KMOX KNOW
KNX KOIN KOMA KOY KRLD
KRNT KSCJ KSFQ KSL KTRH
KTSA KTUL KVI KVOR KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCHS WDAE WDBJ
WDBO WDNC WDOE WDRG WEEI
WFBL WFBM WGAR WGST WHAS
WHFC WHIO WHP WIBW WIBX
WISN WJAS WJR WJSV WKBB
WKBN WKWB WKRC WLAC WLWB
WMAZ WMBD WMBR WNAZ
WNBF WNOX WOC WOKO WORC
WPG WPRO WQAM WREC WRVA
WSBT WSFA WSJS WTCO WWL

B — Gen. Hugh Johnson

KDKA KOIL KSO KWK WBAL
WBZ WBZA WKY WNEA WBRF
WFIL WHAM WFK WICC WJZ
WLS WMAL WMT WOW WREN
WSPD WSYR WTCN WXYZ

M — Eddie Duchin Orchestra

CKLW KALE KDB KDON KELA
KFRC KFXM KGA KGB KGY KHJ
KIEM KIT KMO KOL KORE KPMC
KPQ KQW KRN KSLM KVOE
KVOZ KXO KXRO WGN WTP WLW
WNAZ WOL WOR WRR

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

R — Jimmy Fidler Hollywood Gossip
KDYL KFI KGW KHQ KOA KOMO
KPO KSD KTAR KYW WBN
WCAE WCSH WDAF WFAF WFBF
WGY WHO WJAR WLW WMAQ
WNAC WOOD WOW WRC WTAG
WTAM WTCO WWJ

E-10:45 p.m., C-9:45, M-8:45, P-7:45

R — Dale Carnegie; Winning Friends
KDYL KFI KGW KHQ KOA KOMO
KPO KSD KSTP KYW WBN WCAE
WCSH WDAF WDEL WFAF WFBF
WGY WHO WIRE WJAR WLW
WMAQ WNAC WOW WRC WTAG
WTAM WTCO WWJ

TUESDAY (Continued)

E-11:00 p.m., C-10:00, M-9:00, P-8:00

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

E-11:30 p.m., C-10:30, M-9:30, P-8:30

C — Al Jolson; Parkyakarkus

KFPY KLZ KNX KOIN KOL KSFO

KSL KVI

Also on Canadian Network

E-Midn't; C-11:00, M-10:00, P-9:00

C — Al Pearce and Gang

KFBK KFPY KGVO KLZ KNX

KOH KOIN KOL KOY KSFO KSL

KVI KFOR

WEDNESDAY

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

B — Lowell Thomas, See Monday

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

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

B — Easy Aces, See Tuesday

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

C — Hobby Lobby

KMBC WABC WADC WBIG WBNS

WBT WCAO WCAU WCHS WDAE

WDBJ WDBO WDRC WEAN WFBL

WGAR WGBI WGR WHEC WHIO

WIBX WJAS WJR WJSV WKBN

WKRC WLBY WMAS WMBR WOKO

WORC WPRO WQAM WRVA WYVA

R — Uncle Ezra, See Monday

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

B — Lum and Abner, See Monday

M — Lone Ranger, see Mon.

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

C — Boake Carter, See Monday

R — "Cheer Up"; Henry Burbig

KYW WEAF WENR WTAM

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

C — Cavalcade of America

KDB KERN KFAB KFBK KFPY

KFRC KGB KHJ KLZ KMBC KMJ

KMOX KOIN KOL KRLL KRNT

KSL KVI KWG WABC WBBM

WBNS WCAU WCCO WDRC WEAN

WFBL WFBM WGR WHAS WHEC

WHK WJAS WJR WJSV WKRC

WLAC WMBG WNBC WOKO WTOC

WVLL

R — One Man's Family

KDYL KFI KFYR KGW KHQ KOA

KOMO KPO KPRC KSD KSTP

KTAR KTBS KTSH KVOO KYW

WAPI WAVE WBAF WBEW WCAE

WCSB WDFW WDAY WEAF WEBC

WEEI WFAA WFBW WFLA WGY

WHO WIBA WIOD WIS WJAR

WJAX WJDX WKY WLW WMAQ

WMC WOAI WOW WPTF WRC

WRVA WSB WSM WSMB WSOC

WSUN WTAG WTAM WTAR WTIC

WTMJ WWJ WYWC

Also on Canadian Network

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

C — Eddie Cantor; Deanna Durbin

CFRB CRAC KFAB KFH KLRA

KMBC KMOX KOMA KRLL KRNT

KSCJ KTRH KTSB KTUL KWKH

WABC WADC WBBM WBNS WERC

WBT WCAO WCAU WCCO WDAE

WDBJ WDBO WDRG WEEI WFBL

WFBM WGR WGST WHAS WHEC

WHAS WHK WHP WIBW WIBX

WJAS WJR WJSV WKRC WLAC

WLBY WMAS WMBD WMBG

WMBR WNAK WNOX WOKO WORC
WOWO WPG WPRO WQAM WREC
WWL

B — Harriet Parsons

KDCA KECA KFEL KFSD KGA

KGO KJR KLO KOIL KSO KWK

WBAL WBLZ WBZA WKY WEAN

WEHR WFIL WHAM WHK WICC

WJZ WLS WMAL WMT WOWO

WREN WSPD WSYR WXYZ

R — Tommy Dorsey Orchestra

KDYL KFI KGW KHQ KOA KOMO

KPO KPRC KSD KSTP KTBS KYW

WAVE WBEW WBRC WCAE WCSB

WDAF WDEL WEAF WFAA WFBR

WFLA WGY WHO WIOD WIRE

WIS WJAR WJAX WKY WLW

WMAQ WMBG WMC WNBC WOOD

WOW WPTF WRC WSB WSM

WSMB WSUN WTAG WTAM WTAR

WTIC WWJ WYWC

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

C — Chesterfield; Andre Kostelanetz

KDB KERN KFAB KFBK KFH

KFPY KPRC KGB KGKO KGMB

KHJ KLKA KLZ KMBC KMJ KMCO

KOH KOIN KOL KOMA KRLL

KRNT KSCJ KSL KTRH KTSB

KTUL KVI KFOR KWG KWKH

WABC WACO WADC WALA WBBM

WBIG WBNS WBRC WBT WCAO

WCAU WCCO WCOA WDAE WDBG

WDBO WDNC WDDO WDRC WEAN

WFBL WFBM WFAA WGST WHAS

WHEC WHK WHP WIBW WIBX

WICC WISN WJAS WJR WJSV

WKBB WKWB WKRC WLAC WLBY

WMAS WMBD WMBG WMBR

WNBC WNAK WNBW WNOX WOC

WOKO WORC WOWO WPG WQAM

WREC WSFA WSJS WSPD WTOC

WWL

R — Town Hall Tonight

KFYR KPRC KSD KSTP KTBS

KTHS KVOO KYW WAVE WBEW

WCAE WCSB WDAF WDAY WEAF

WBCB WEEI WFAA WFBW WFLA

WGY WHO WIBA WIOD WIS WJAR

WJAX WJDX WKY WLW WMAQ

WMC WOAI WOW WPTF WRC WSB

WSM WSMB WSOC WTAG WTAM

WTAR WTIC WTMJ WWJ WYWC

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

C — Ben Bernie; Lew Lehr

KDAL KFAB KFBK KFH KFPY

KGAR KGKO KGLD KIRO KLRA

KLZ KMBC KMOX KNOW KNX

KOH KOIN KOMA KOY KRLL

KRNT KSCJ KSI KSL KTRH

KTSA KTUL KVI KFOR KWKH

WABC WACO WALA WBBM WBIG

WBNS WBT WCAO WCAU WCCO

WCHS WCOA WCOO WDAE WDBJ

WDBO WDNC WDDO WDRC WEEI

WEOA WFBL WFBM WGAR WGBI

WGST WHAS WHEC WHIO WHLB

WHP WIBW WIBX WISN WJAS

WJNO WJR WJSV WKBB WKBH

WKBB WKRC WLAC WLBY WMAS

WMBD WMBR WMPG WMMN

WNAK WNBW WNBX WNOX WOC

WOKO WORC WPG WPRO WQAM

WREC WRVA WSBT WSFA WSJS

WTAG WTOC WWL

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

C — Crime Crusade; Phil Lord

KDB KERN KFAB KFBK KFH

KFPY KPRC KGB KHJ KLRA KLZ

KMBC KMJ KMOX KOIN KOL

KOMA KRLL KRNT KSL KTRH

KTSA KTUL KVI KWG KWKH
WABC WACO WBBM WBNS WBRB
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDRC WEAN WFBL
WFBM WGST WHAS WHEC WHK
WHK WISN WJAS WJR WJSV
WKBB WKRC WLAC WLBY WMBG
WMBR WNAK WOKO WORC WOWO
WQAM WREC WTOC WWL

R — Your Hollywood Parade

KDYL KERN KFBK KFI KFYR

KGBX KGHL KGIR KGNC KGU

KGW KHQ KIDO KMJ KOA KOB

KOMO KPO KPRC KSD KSTP

KTAR KTBS KTHS KWG KYW

WAPI WAVE WBEW WCAE WCCO

WCSB WDAF WDEL WEAF WEEB

WFAA WFBW WFBW WFLA WFLA

WGL WGY WHO WIBA WIOD WIRE

WIS WJAR WJAX WJDX WKY

WLW WMAQ WMBG WMC WNBC

WQAI WOOD WORK WOW WPTF

WRC WSB WSM WSMB WSOC

WSUN WTAG WTAM WTAR WTIC

WTMJ WWJ WYWC

B — Gen. Hugh Johnson, See Tues.

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

C — Hobby Lobby; Harry Safter

KDAL KFAB KFH KFPY KGKO

KIRO KLZ KMOX KNOW KNX

KOH KOIN KOMA KRLL KOY

KRNT KRSO KSL KTRH KTSB

KTUL KVI KWKH WALA WBBM

WBRC WCCO WCOO WFBM WGST

WHAS WIBW WISN WLAC WMBD

WNBW WNOX WOC WREC WSBT

WSFA WWL

M — Lone Ranger, see Mon.

E-11:00 p.m., C-10:00, M-9:00, P-8:00

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

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

C — Boake Carter, See Monday

B — Lum and Abner, See Monday

E-11:30 p.m., C-10:30, M-9:30, P-8:30

C — Eddie Cantor; Deanna Durbin

KFBK KFPY KGVO KLZ KNX

KOH KOIN KOL KOY KSFO KSL

KVI KFOR

THURSDAY

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

B — Lowell Thomas, See Monday

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

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

B — Easy Aces, See Tuesday

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

C — Geo. McCall, see Tues.

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

C — "We, The People."

KFAB KMBC KMOX KNOW KOMA

KRLL KRNT KSCJ KTRH KTSB

KTUL WABC WBBM WBNS WCAO

WCAU WCCO WDAE WDBO WDRC

WEEI WFBW WGAR WGR WHAS

WHEC WHIO WHP WIBX WISN

WJAS WJR WJSV WKRC WMBD

WMBR WOC WOKO WPRO WQAM

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

C — Kate Smith; Jack Miller

CFRB CRCM KDAL KFAB KFH

KGKO KLRA KMBC KMOX KNOW

KOMA KRLL KRNT KSCJ KTRH

KTSA KTUL KWKH WABC WACO

WADC WBBM WBNS WBRC WBT

THURSDAY (Continued)

WCAO WCAU WCCO WDAE WDBJ
WDBO WDOD WDRG WEEI WEOA
WFBL WFBM WGAR WGR WGST
WHAS WHEC WHIO WHP WIBW
WISN WJAS WJR WJSV WKBN
WKRC WLAC WLWB WMBD WMBR
WNAX WNOX WOC WOKO WORC
WPRO WQAM WRVA WREC WSFA
WTAG WWL

R — Rudy Vallee's Variety Hour
CFCC CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KSD
KSTP KTAR KYW WBEN WCAE
WCSH WDAF WDAY WEAF WEBC
WEEI WFBR WGY WHO WJAR
WLW WMAQ WOW WRC WTAM
WTIC WTMJ WWJ

Also on Canadian Network

B — The March of Time
KDKA KECA KERN KFBK KFEL
KFSD KGA KGO KJR KLO KMJ
KOIL KSO KWG KWK KXYZ
WABY WAGA WBAL WBZ WBZA
WCKY WCOP WCSC WDSU WEAN
WEFR WFIL WHAM WHK WICC
WJZ WLS WMAL WMPX WMT
WREN WSPD WSYR WXYZ

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

C — Major Bowes' Amateurs
CFRB CKAC KDB KERN KFAB
KFBK KFH KFPY KPRC KGB
KGKO KLRA KLZ KMBC KMJ
KMXX KOIN KOL KOMA KRLL
KRNT KSCJ KSL KTRH KTSB
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBG WBNS WBRG WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDOD WDRG WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBN WKBW WKRC WLAC WLWB
WMAS WMBD WMBG WMBR
WMNN WMAC WNAW WOC WOKO
WORC WOWO WPG WQAM WREC
WSFA WSJS WSPD WTOG WWL

R — MGM Program

CRCT KDYL KERN KFBK KFI
KFYR KGHK KGR KGNK KGW
KMJ KOA KOMO KPO KPRC KSD
KSTP KTBS KWG KYW WAPI
WAVE WBAF WBEN WCAE WCSH
WDAF WDAY WEBC WFRB WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMBG WMC WNAC WOAI WOOD
WOW WPTF WRC WSB WSM
WSMB WSOC WSUN WTAG WTAM
WTAR WTIC WTMJ WWJ WYCN

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

R — Bob Burns; Bing Crosby
CFCC CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KTBS KTHS
KVoo KYW WAVE WBAF WBEN
WCAE WCSH WDAF WDAY WEAF
WEBC WEEI WFBR WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSB WSM WSMB WSOC
WTAG WTAM WTAR WTIC WTMJ
WWJ WYCN

Also on Canadian Network

E-11:00 p.m., C-10:00, M-9:00, P-8:00

C — Poetic Melodies, See Monday
R — Amos 'n' Andy, See Monday

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

C — Kate Smith; Jack Miller
KFBB KFPY KGVO KIRO KLZ
KNX KOIN KOY KSFO KSL KVI
KVOR

FRIDAY

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

B — Lowell Thomas, See Monday

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

C — Poetic Melodies, See Monday

R — Amos 'n' Andy, See Monday

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

R — Uncle Ezra, See Monday

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

B — Lum and Abner, See Monday

M — Lone Ranger, see Mon.

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

C — Boake Carter, See Monday

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

C — Hammerstein Music Hall

KDB KERN KFAB KFBK KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRNT
KSL KVI KWG WABC WBBM
WBNS WBRG WBT WCAO WCAU
WCCO WDRG WEAN WFBL WFBM
WFRB WGST WHAS WHK WJAS
WJR WJSV WKRC WMAA WMBG
WNAW WOKO WWL

R — Cities Service Concert

CRCT CFYR KOA KPRC KSD
KSTP KTBS KTHS KVoo KYW
WDAF WBEN WCAE WCSH WDAF
WDAY WEAF WEBC WEEI WFAA
WFBR WGY WHO WIBA WIOD
WJAR WKY WMAQ WOAI WOW
WRC WRVA WSAI WTAG WTAM
WTIC WTMJ WWJ

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

C — Paul Whiteman; Deems Taylor
KFAB KFH KGKO KLRA KMBC
KMOX KOMA KRLL KRNT KSCJ
KTUL KTSB KTUL KWKH WABC
WACO WADC WALA WBBM WBG
WBNS WBRG WBT WCAO WCAU
WCCO WCOA WDAE WDBJ WDBO
WDNC WDOD WDRG WEEI WFLA
WFBM WFEA WGR WGST WHAS
WHEC WHIO WHK WHP WIBW
WIBX WISN WJAS WJR WJSV
WKBN WKRC WLAC WLWB WMAS
WMBD WMBG WMBR WMNN
WNAX WNBW WNOX WOC WOKO
WORC WOWO WPG WPRO WQAM
WREC WSFA WSJS WSPD WTOG
WWL

B — Death Valley Days

KDKA KDYL KFI KGW KHQ KOIL
KOMO KPO KSO KWK WBAL WBZ
WBZA WFIL WGAR WHAM WJZ
"LS WLW WMAL WMT WREN
WSYR WXYZ

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

C — Hollywood Hotel

CFRB CKAC KDB KERN KFAB
KFBK KFH KFPY KPRC KGB
KHJ KLRA KLZ KMBC KMJ KMOX
KOIN KOL KOMA KRLL KRNT
KSCJ KSL KTRH KTSB KTUL KVI
KVOR KWG KWKH WABC WADC
WBBM WBNS WBRG WBT WCAO
WCAU WCCO WDAE WDBJ WDBO
WDRG WEAN WFBL WFBM WFEA
WGST WHAS WHEC WHK WHP
WIBW WIBX WICC WJAS WJR

WJSV WKBW WKRC WLAC WLWB
WMAA WMBD WMBG WMBR
WNAC WNAX WNOX WOKO WORC
WPG WQAM WREC WSPD WWL
Also on Canadian Network

R — Frank Munn; Abe Lyman

KSD KYW WBEN WCAE WCSH
WDAF WEAF WEEI WFBR WGY
WJAR WLW WMAQ WOW WRC
WTAG WTAM WWJ

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

R — True Story Court

KSD KYW WBEN WCAE WCSH
WEAF WEEI WFBR WGY WHO
WHIO WJAR WMAQ WOW WRC
WTAG WTAM WTIC WWJ

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

C — Frank Crumit; Reed Kennedy
KDAL KFAB KFPB KFH KFPY
KGKO KGLO KGVO KRLA KLZ
KMOX KNOW KNX KOH KOIN
KOL KOMA KOY KRLL KRNT
KSCJ KSP KSL KTRH KTSB
KTUL KVI KVOR KWKH WABC
WACG WADC WALA WBBM WBG
WBNS WBRG WBT WCAO WCAU
WCCO WCHS WCOA WCCO WDAE
WDBJ WDBO WDNC WDOO WDRG
WEEI WEOA WFBL WFBM WGR
WGBI WGST WHAS WHEC WHIO
WHP WIBW WIBX WISN WJAS
WJNO WJR WJSV WKBW WKBW
WKRC WLAC WLWB WLBZ WMBD
WMBR WMNN WNBW WNOX WOC
WOKO WORC WPAR WPG WPRO
WQAM WREC WRVAWSBT WSFA
WSJS WTOG WWL

CBC — Canada 1938

CBF CBL CBM CBO CBR CBW
CFAC CFCC CFCH CFEN CFQC
CFYQ CFCJ CFNB CFPL CFCO
CHAB CHNS CHRC CHSJ CHWK
CJAT CJCA CJCB CJIC CJKL
CJOC CKBI CKCK CKOW CKGB
CKOV CKOC CKPR CKSO CKX
CKY

R — First Nighter; Drama

KDYL KFI KFYR KGW KHQ KOA
KOMO KPO KPRC KSD KSTP
KTBS KTHS KYW WAVE WBEN
WCAE WCSH WDAF WDAY WEAF
WEBC WEEI WFAA WFBR WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WPTF WRC WRVA WSB
WSM WSMB WSOC WTAG WTAM
WTAR WTIC WTMJ WWJ WYCN

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

M — Lone Ranger, see Mon.

R — Jimmy Fidler

KDYL KFI KGW KHQ KOA KOMO
KPO KSD KSTP KYW WREN
WCAE WCSH WDAF WDEL WEAF
WFBR WGY WIBA WIRE WJAR
WLW WMAQ WNAW WOW WRC
WTAG WTAM WTIC WTMJ WWJ

E-10:45 p.m., C-9:45, M-8:45, P-7:45

R — Dorothy Thompson—News
KDYL KFI KGW KHQ KOA KOMO
KPO KSD KSTP KYW WBEN WCAE
WCSH WDAF WDEL WEAF WFBR
WGY WIRE WJAR WLW WMAQ
WNAW WOW WRC WTAG WTAM
WTIC WWJ

E-11:00 p.m., C-10:00, M-9:00, P-8:00

C — Poetic Melodies, See Monday
R — Amos 'n' Andy, See Monday

FRIDAY (Continued)

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

C — Boake Carter, See Monday

B — Lum and Abner, See Monday

E-11:30 p.m., C-10:30, M-9:30, P-8:30

C — Paul Whiteman; Deems Taylor
KFBB KPFP KGAR KGMB KGVO
KRO KRL KNX KOH KOIN KOY
KSFO KSL KVI KVOR

E-12:00 p.m., C-11:00, M-10:00, P-9:00

CBC — Northern Messenger

To Midwest and Western Networks

SATURDAY

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

C — Saturday Night Swing Club
Available to Columbia Network

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

C — Carborundum Band

KFAB KMBC KMOX WABC WBBM
WBT WCAO WCAU WCCO WEEI
WFBL WGAR WGR WHAS WJAS
WJR WKRC WPRO

B — Uncle Jim's Question Bee

KDKA KWBZ WBZA WGY WHEX
WJZ WMAQ

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

R — "Believe-it-or-not." Ripley

KANS KDYL KFYP KGNC KOA
KPRC KSD KSTP KYW WAPI
WAVE WBAP WBen WCAE WCHS
WDAF WDAY WDEL WFAE WFBC
WFBC WFBZ WGY WHO WIBA
WIRE WJAR WKY WLW WMAQ
WMBG WNAC WMC WOAI WOOD
WOW WPTF WRC WSB WSBM
WSOC WSPD WTAG WTAM WTAR
WTIC WTMJ WWJ

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

C — Johnny Presents Russ Morgan

KFAB KFH KMBC KMOX KRNT
WABC WADC WBIM WBIG WBNS
WBT WCAO WCAU WCCO WCOA
WDRS WEEI WFBL WFBM WGR
WGST WHAS WHEC WHIO WHK
WHP WISN WJAS WJR WJSV
WKRC WMBD WMBG WNBZ WOC
WOKO WPRO WSBT WWVA

R — Jack Haley; Virginia Verrill

KDYL KGNC KOA KPRC KSD
KSTP KYW WAPI WAVE WBAP
WBen WCAE WCHS WDAF WDEL
WFAE WFBC WFBZ WFBZ WGY
WHO WIBA WIRE WJAR WKY
WLW WMAQ WMBG WMC WNAC
WOAI WOW WPTF WRC WSB
WSBM WSOC WSPD WTAG WTAM
WTAR WTIC WTMJ WWJ

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

C — Prof. Quiz

KDB KERN KFAB KFBB KPFP
KFRC KGB KHJ KLRA KLZ KMBC
KMJ KMOX KOIN KOL KOMA
KRLL KRNT KSL KTRH KTSa
KVI KWG WABC WBBM WBBN
WBT WCAO WCAU WCCO WDAE
WDBO WDRS WEAN WFBL WFBM
WJAS WJR WJSV WKBW WKRC
WMBR WOKO WQAM WREC WSPD
WWL

B — National Barn Dance

KDKA KOIL KPRC KSO KTBS
KTHS KWK WABY WAPI WAVE

WBAL WBAP WBZ WBZA WFIL
WFLA WIKI WHAM WIOD WIRE
WIS WJAX WJDX WJZ WKY WLS
WMAL WMC WMT WOAI WOOD
WPTF WRIN WRVA WSB WSMB
WSOC WSUN WSYR WTAR WWNC
WXYZ

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

C — Saturday Night Serenade

KFAB KFH KPFP KGKO KLRA
KLZ KMBC KMOX KNOW KNX
KOIN KOL KOMA KRLL KSFQ
KTRH KTSa KTUL KVI KWKH
WALA WBBM WBIG WBNS WBRB
WBT WCAO WCAU WCOA WDAE
WDBO WDDO WEEI WFBL WFBM
WGAR WGST WHAS WHEC WJAS
WJR WJSV WKBW WLAC WMBD
WMBR WMMN WNOX WOC WQAM
WREC WRVA WSFA WTOC WWL
WWVA

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

C — Your Hit Parade

KERN KFAB KFBB KFH KPFP
KFRC KGB KGKO KGMB KHJ
KLRA KLZ KMBC KMJ KMOX
KOH KOIN KOL KOMA KRLL
KRNT KRSCJ KSL KTRH KTSa
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRB WBT WCAO
WCAU WCCO WCOA WDAE WDBO
WDBO WDDO WDDO WDRS WEAN
WFBL WFBM WFEA WGST WHAS
WHIC WHK WHP WIBW WIBZ
WICC WISN WJAS WJR WJSV
WKBW WKRC WLAC WLZ WMAS
WMBD WMBG WMBR WNAC
WNAX WNOX WOC WOKO WORC
WPG WQAM WREC WSBT WSFA
WSJS WSPD WTOC WWL WWVA

R — NBC Symphony Orchestra

Available to entire Red and Blue
Network and to Canadian Network

E-11:00 p.m., C-10:00, M-9:00, P-8:00

B — National Barn Dance

KDYL KFI KFSB KFYP KHLL
KGRK KGU KGW KHQ KOA KOMO
KPO KSTP KTAR WDAY WECB
WIBA WLW WTMJ

E-11:30 p.m., C-10:30, M-9:30, P-8:30

C — Johnny Presents Russ Morgan

KFBB KPFP KGVO KIRO KXN
KOIN KOIN KSFO KSL KVI KVOR

E-12:00 p.m., C-11:00, M-10:00, P-9:00

C — Professor Quiz

KFBB KPFP KIRO KNX KOH
KOIN KOY KSFO KSL KVI

R — "Believe-It-Or-Not" Ripley

KERN KFBB KFI KGW KHJ KMJ
KOMO KPO KWG

SUNDAY

E-11:30 a.m., C-10:30, M-9:30, P-8:30

C — Major Bowes' "Family"

CFRB KERN KFAB KFBB KFBB
KFH KPFP KFRC KGB KGVO
KMBC KOH KOL KRLL KSL KTRH
KTSa KVI KVOR KWG KWKH
WABC WACO WADC WALA WBNS
WBRB WCAO WCCO WDAE WDBJ
WDBO WDRS WESG WFBL WFEA
WHAS WHK WIBX WJAS WJR
WKRC WLZ WMBD WMBR

WMMN WOC WOKO WORC WPG
WQAM WSBT WSJS WSPD WTOC

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

P-9:30

C — Salt Lake Tabernacle Choir

CFRB KFAB KFBB KFBB KFH
KPFP KFRC KGB KLZ KOH KOL
KRLL KSL KTRH KTSa KVI KVOR
KWG WABC WACO WADC WALA
WBIG WBNS WBRB WCAO WCCO
WDAE WDBJ WDBO WESG WFBL
WFEA WGR WHAS WICC WJAS
WJR WKRC WLBC WMBR WMMN
WOC WOKO WORC WQAM WSBT
WSJS WSPD WTOC

E-1:00 p.m., C-Noon, M-11:00 a.m.,

P-10:00

C — Church of the Air

KFBB KFH KPFP KFRC KGB
KHJ KMOX KOH KOL KOMA KRLL
KRNT KRSCJ KSL KTRH KTSa KVI
KVOR KWG WABC WALA WBNS
WBT WCAO WCCO WDAE WDBJ
WDBO WDRS WESG WFBL WFBM
WGR WHAS WHP WIBX WJAS
WJSV WKBN WKRC WLAC WLZ
WMBR WNBZ WOC WOKO WORC
WPG WQAM WREC WSBT WSJS
WSPD WTOC WWVA

E-2:00 p.m., C-1:00, M-Noon, P-11:00

a.m.

B — Magic Key of RCA

CPFC CRCT KDKA KDYL KFI
KFYP KGU KGW KHQ KOA KOIL
KOMO KPO KPRC KSO KSTP KTBS
KTHS KVOO KWK WAPI WAVE
WBAL WBZ WBZA WKY WDAY
WGA WGNR WTAA WFLI WFLA
WGR WHAM WHIO WIBA WIOJ
WIRE WIS WJAX WJDX WJZ WKY
WMAL WMC WMT WOAI WPTF
WREN WRVA WBS WSM WSBM
WSOC WSYR WTAR WTMJ WWNC
WXYZ

E-2:30 p.m., C-1:30, M-12:30, P-11:30

C — Jean Hersholt, "Dr. Christian."

CFRB KFAB KFH KMBC KMOX
KNOW KOMA KRLL KRNT KRSCJ
KTRH KTSa KWKH WABC WADC
WBBM WBNS WBRB WBT WCAO
WCAU WCCO WCHS WDAE WDBO
WDRS WFEA WFLI WFBM WGAR
WGST WHAS WHEC WHIO WHP
WIBX WJAS WJR WJSV WKBW
WKRC WLAC WLZ WMAS WMBR
WOKO WORC WPRO WQAM WREC
WRVA WWL

E-3:00 p.m., C-2:00, M-1:00, P-Noon

C — N. Y. Philharmonic

CFRB CHAC KFAB KFBB KFH
KGKO KGVO KLRA KLZ KMBC
KMOX KNOW KOL KRLL KRSCJ
KSL KTRH KTSa KWKH WABC
WADC WALA WBNS WBT WCAO
WCCO WCHS WDAE WDBJ WDBO
WDRS WEEI WESG WFBL WFBM
WHAS WHK WHP WIBX WIBZ
WJAS WJR WJSV WKBW WKBN
WKBW WKRC WLAC WLZ WMAS
WMBD WMBG WMBR WMMN
WNBZ WOC WOKO WORC WPAR
WPG WQAM WSBT WWSJ WTAQ
WTOC WWL

Also on Canadian Network

R — The Radio News Reel

KSD KSTP KYW WBen WCAE

SUNDAY (Continued)

WCSH WDAF WDEL WEAF WFBR WGY WHO WIRE WJAR WMAQ WNAC WOW WRC WSAI WTAG WTAM WTIC WWJ

E-4:30 p.m., C-3:30, M-2:30, P-1:30
R — The World is Yours; Drama Available to Red Network

E-5:00 p.m., C-4:00, M-3:00, P-2:00

C — Magazine of the Air
CFRB CKAC KFAB KFPY KLZ KMBC KMOX KNOW KNX KOIN KOL KOMA KRLD KRNT KSFO KSL KTRH KTSR KTUL KVI WABC WADC WBBM WBNS WCAE WCAU WCCO WDAE WDRC WDFW WGR WGR WGST WHAS WHFC WHIO WJAS WJR WJSV WKRC WMBR WOKO WPRO WQAM WWL

R — Marion Talley
KDYL KFI KGW KHQ KOA KOMO KPO KSTP KYW WBNB WCAE WCOL WCSH WDAF WDEL WEAF WEBC WFBR WGY WHO WIBA WIRE WJAR WMAQ WNAC WOOD WOW WRC WSAI WTAG WTAM WTIC WTMJ WWJ

B — Metropolitan Opera Auditions
CFCF CRCT KARK KDKA KECA KEX KFEL KFI KFSB KFYR KGA KGIR KGNC KGO KGU KJR KLO KOIL KPRC KSO KTBS KVOO KWK WABY WAPI WAVE WBAL WBPB WBZ WBZA WCKY WOSC WDAY WEAN WEBR WENR WFIL WFLA WHAM WHK WICC WIOD WISWJAX WJDX WJZ WKY WMAL WMC WMT WOAI WOWO WPTF WREN WRDZ WSB WSM WSMB WSOC WSPD WSUN WSYR WTAR WTCN WWNC WXYZ

E-5:30 p.m., C-4:30, M-3:30, P-2:30
C — Guy Lombardo and Orchestra
KFH KMBC KMOX KOMA KTUL WAAB WABC WBNS WCAO WCAU WDRC WEAN WFEL WFBM WGR WHAS WHFC WHK WIBX WICC WJR WJSV WMAS WOKO WORC WSPD WWVA

B — Smiling Ed McConnell
KANS KDKA KECA KERN KEX KFBB KFSD KFYR KGA KGIR KGO KJR KLO KMJ KOIL KSO KTAR KWG KWK WAVE WBAL WBZ WBZA WCKY WCOL WDAY WDSU WEAN WEBR WENR WFLA WFLA WHAM WHK WICC WJZ WMAL WMT WREN WRDZ WSM WSPD WSYR WTCN WXYZ

R — Mickey Mouse Theater
KANS KDYL KFI KGNC KGW KHQ KOA KOMO KPO KPRC KSD KSTP KVOO KYW WAVE WBPB WBNB WBRB WCAE WCSH WDAF WDEL WEAF WFBR WFBM WFLA WGY WHO WIBA WIOD WIRE WIS WJAR WJAX WKY WLW WMAQ WMBG WMC WNC WNT WOOD WOW WPTF WRC WSB WSM WSMB WSUN WTAG WTAM WTAR WTIC WTMJ WWJ

E-6:00 p.m., C-5:00, M-4:00, P-3:00
C — Joe Penner; Gene Austin
KFAB KFPY KGLO KLZ KMBC KMOX KNOW KNX KOIN KOL

KOMA KRLD KRNT KSFO KSL KTRH KTSR KVI WABC WBBM WBNS WBRB WBT WCAO WCAU WCCO WDAE WDBO WDRC WDFW WFLB WFBM WGR WGST WHAS WHFC WHAS WJR WJSV WKBW WKRC WOKO WORC WPRO WQAM WREB WRVA

M — George Jessel; Tommy Tucker To entire MBS and Michigan Networks

E-6:30 p.m., C-5:30, M-4:30, P-3:30

C — Double Everything
CFRB CKAC KDAL KFAB KFH KFPY KGAR KGMB KIRO KLRA KLZ KMBC KMOX KNOW KNX KOIL KOMA KOY KRLD KRNT KSOJ KSFO KSL KTRH KTSR KTUL KVI WABC WADC WBBM WBT WCAO WCAU WCCO WDAE WDBO WDRC WDFW WFLB WFBM WGR WGST WHAS WHFC WHIO WHLB WJAS WJNO WJR WJSV WKBW WKRC WLAC WMBR WMPG WMAX WNOX WOKO WPRO WQAM WREB WRVA WTCO WWL WWVA

R — A Tale of Today
WBEN WEAF WGY WJAR WMAQ WOW WRC WTAM

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

C — Jeanette MacDonald
KFAB KFH KFPY KLZ KMOX KNOW KNX KOIN KOL KOMA KRLD KRNT KSFO KSL KTRH KTSR KTUL KVI KWKH WABC WADC WBBM WBG WBRB WBT WCAO WCAU WCCO WDRC WDFW WFLB WFBM WGR WGBI WGR WGST WHAS WHFC WHIO WJAS WJR WJSV WKRC WOKO WPRO WREB WRVA WTCO WWL

R — Jack Benny; Mary Livingstone
KSD KYA KYW WBNB WCAE WCSH WDAF WEAF WFBR WGY WHO WJAR WLW WMAQ WNAC WOW WRC WTAG WTAM WTIC WWJ

Also on Canadian Network

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

C — Phil Baker; Oscar Bradley
KLRA KLZ KRLD KTRH KTSR KTUL KWKH WABC WACO WADC WALA WBIG WBNS WBRB WBT WCAO WCAU WCOA WDAE WDBJ WDBO WDNC WDDO WDRC WEAN WFEL WFBM WFEA WGR WGST WHAS WHFC WHK WHP WIBX WICC WJAS WJR WJSV WKBW WKRC WLAC WLBZ WMAS WMBR WMAX WNOX WOKO WORC WQAM WREB WSBT WSPA WWSV WSMK WSPD WTCO WWL WWVA

B — Ozzie Nelson; Harriet Hilliard
KARK KDKA KECA KFEL KEX KFSB KFYR KGA KGO KJR KLO KOIL KPRC KSO KSTP KTAR KTBS KTHS KVOO KWK WABY WAPI WAVE WBAL WBPB WBZ WBZA WCKY WCOL WDAY WEAN WEBR WFBM WFLA WHAM WHK WIBA WICC WIOD WIS WJAX WJDX WJZ WKY WLEU WLS WMAL WMC WMT WOW WPTF WREN WRDZ WSB WSM WSMB WSOC WSUN WSYR WTAR WTMJ WVMC WXYZ

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

R — Don Ameche; Edgar Bergen
CFCF CRCT KDYL KFI KFYR KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTAR KTBS KVOO KYW WAVE WBNB WCAE WCSH WDAF WDAY WEAF WEBC WFAA WFBR WFLA WGY WHO WIBA WIOD WIRE WIS WJAR WJAX WJDX WKY WLW WMAQ WMC WNAC WOAI WOW WPTF WRC WRVA WSB WSM WSMB WSOC WSUN WTAG WTAM WTAR WTIC WTMJ WWJ WWNC

Also on Canadian Network

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

C — Ford Concert
CFRB CKAC KDOB KERN KFAB KFBC KGH KJR KLO KOIL KSO KGKO KHJ KLRA KLZ KMBC KMIJ KMOX KOIL KOIN KOL KOMA KRLD KRNT KSCJ KSL KTRH KTSR KTUL KVI KYOR KWG KWKH WABC WACO WADC WALA WBBM WBIG WBNS WBRB WBT WCAO WCAU WCCO WCOA WDAE WDBJ WDBO WDNC WDDO WDRC WEAN WFEL WFBM WFEA WGR WGST WHAS WHFC WHK WHP WIBW WIBX WICK WISN WJAS WJR WJSV WKBW WKRC WLAC WLBZ WMAS WMBD WMBR WNAC WMAX WOC WOKO WORC WQAM WREB WSBT WSPA WWSJ WSPD WTCO WWL WWVA

B — Tyrone Power; Drama
KDKA KECA KFSD KGA KGHJ KHJ KGO KJR KLO KOIL KSO KTAR KWK WBAL WBZ WBZA WEBC WEBR WENR WFIL WGAR WHAM WICC WJZ WLW WMAL WMT WREN WSYR WXYZ

R — Manhattan Merry-Go-Round
CFCF KDYL KFI KFYR KGW KHQ KOA KOMO KPO KPRC KSD KTBS KTHS KYW WAVE WBNB WCAE WCKY WCSH WDAF WDAY WEAF WEBC WEEI WFAA WFBR WFLA WGY WHO WIBA WIOD WIRE WIS WJAR WJAX WJDX WKY WMAQ WMC WOAI WOW WPTF WRC WRVA WSB WSM WSMB WSOC WTAG WTAM WTAR WTMJ WWJ WWNC

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

R — Album of Familiar Music
CFCF CRCT KDYL KFI KFYR KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTBS KYW WAPI WAVE WREN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFAA WFBR WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WMAQ WMC WOAI WOW WPTF WRC WRVA WSAI WSB WSM WSMB WSOC WTAG WTAM WTAR WTMJ WWJ WWNC

B — Walter Winchell
KDKA KECA KEX KFSD KGA KGHJ KGIR KGO KJR KLO KOIL KSO KTAR KWK WBAL WBZ WBZA WENR WFIL WGAR WHAM WJZ WLW WMAL WMT WREN WSYR WXYZ

E-9:45 p.m., C-8:45, M-7:45, P-6:45

B — Irene Rich; Drama
KDKA KOIL KSO KWK WBAL WBZ WBZA WCKY WEAN WEBR

SUNDAY (Continued)

WENR WFIL WHAM WHK WICC
WJZ WMAL WMT WREN WSPD
WSYR WTCN WXYZ

E-11:00 p.m., C-9:00, M-8:00, P-7:00

C — Zenith Foundation

KFAB KFYP KLRK KLZ KMBC
KMXN KNOW KNX KOIN KOL
KOMA KRLD KRNT KSPQ
KSL KTRH KTSR KTUL KVI
WABC WBBM WBNS WBRC WBT
WCAU WCCO WDAE WDBO WDRB
WEEI WFBL WFBR WGAR WGST
WHAS WHFC WJAS WJR WJSV
WKBW WKRC WMBR WNOX
WOKO WORC WPRO WQAM WWL
R — Rising Musical Stars
KDYL KFI KGBX KGW KHQ KOA

KPO KPRC KSD KSTP KTAR KTBS
KTIS KYW WAVE WBAP WBen
WCAE WCHS WDAF WEAF WFBR
WFLA WGY WHO WIBA WIOD
WIRE WIS WJAR WJAX WJDX
WKY WMAQ WMC WNAC WOAI
WOOD WOW WPTF WRC WRVA
WSB WSM WSMB WSOE WTAG
WTAM WTAR WTIC WTMJ WWJ
WWNC

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

B — Tyrone Power; Drama

KARK KPRC KTBS WAPI WAVE
WBAP WJDX WKY WMC WOAI
WSB WSM WSMB

E-11:00 p.m., C-10:00, M-9:00, P-8:00

B — Irene Rich, Drama

KECA KERN KEX KFBK KFSB

KGA KGO KJR KLO KMJ KVOD
KWG WAPI WAVE WJDX WMC
WSB WSM WSMB

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

B — Walter Winchell

KDYL KFI KFSB KGHK KGIR
KGW KHQ KOA KOMO KPO KPRC
KTAR KTBS KTIS WAPI WAVE
WBAP WJDX WKY WMC WOAI
WSB WSM WSMB

E-11:30 p.m., C-10:30, M-9:30, P-8:30

R — Jack Benny-Mary Livingstone

KDYL KERN KFBK KFI KFSB
KGHK KGIR KGU KGW KHQ
KIDO KMJ KOA KOMO KPO KTAR
KWG

CLASSIFIED INDEX TO CHAIN PROGRAMS

Time in Eastern Standard

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

COMEDY

Fred Allen, 9:00 p.m. Wed., Red
Phil Baker, 7:30 p.m. Sun., CBS
Jack Benny-Mary Livingstone, 7 and 11:30 p.m. Sun.,
Red
Edgar Bergen-Charlie McCarthy, 8 p.m. Sun., Red
Fannie Brice, 9 p.m. Thurs., Red
Henry Burbig, 7:45 p.m. Wed., Red
Bob Burns, 10:00 p.m. Thurs., Red
Burns and Allen, 8 and 10:30 p.m., Mon., Red
Charles Butterworth, 9:30 p.m. Tues., Red
Eddie Cantor, 8:30 and 11:30 p.m. Wed., CBS
Jack Haley, 8:30 p.m. Sat., Red
Arlene Harris, 9 and 12 p.m. Tues., CBS
George Jessel, 6:00 p.m. Sun., MBS
Al Jolson, 8:30 and 11:30 p.m. Tues., CBS
Lew Lehr, 9:30 p.m. Wed., CBS
Walter O'Keefe, 9:30 p.m. Tues., Red
Parkyakarkus, 8:30 and 11:30 p.m. Tues., CBS
Al Pearce, 9 and 12 p.m. Tues., CBS
Joe Penner, 6:00 p.m. Sun., CBS
Joe Rines, 5:30 p.m. Sun., Red
Pinky Tomlin, 8:30 and 11:30 p.m. Wed., CBS
Oliver Wakefield, 8:30 and 11:30 p.m., Fri., CBS

CONCERTS

Frank Black, 2:00 p.m. Sun., Blue
Ford Sunday Evening Hour, 9:00 p.m. Sun., CBS
Andre Kostelanetz, 9:00 p.m. Wed., CBS
Met. Opera Auditions, 5:00 p.m. Sun., Blue
NBC Symphony Orchestra, 10:00 p.m. Sat., Red and
Blue
N. Y. Philharmonic, 3:00 p.m. Sun., CBS
Philadelphia Symphony, 9:00 p.m. Sun., Blue

DANCE BANDS

Robert Armbruster, 8:00 p.m. Sun., Red
Ben Bernie, 9:30 p.m. Wed., CBS
Oscar Bradley, 7:30 p.m. Sun., CBS
Don Donnie, 9 p.m. Sun., Red
Tommy Dorsey, 8:30 p.m. Wed., Red
Eddie Duchin, 10 p.m. Tues., MBS
Ted Flo Rito, 8:30 p.m. Sat., Red
Al Goodman, 10:00 p.m. Sat., CBS; 10 p.m. Wed., Red

Benny Goodman, 10:00 p.m. Tues., CBS
Jimmy Grier, 6:00 and 11:00 p.m. Sun., CBS
Gustav Jaenschen, 9:30 p.m. Sun., Red; 10:00 p.m.
Fri., CBS
Phil Harris, 7 and 11:30 p.m. Sun., Red
Horace Heidt, 9:00 p.m. Tues., Blue
Carl Hoff, 9 and 12 p.m. Tues., CBS
Wayne King, 8:30 p.m. Tues., Red; 10 p.m. Mon.,
CBS
Benny Kreuger, 8:30 p.m. Mon., CBS
Guy Lombardo, 5:30 p.m. Sun., CBS
Abe Lyman, 9:00 p.m. Fri., Red
Frankie Masters, 8:30 p.m. Tues., Blue
Jack Miller, 8 and 11:15 p.m. Thurs., CBS
Billy Mills, 9 p.m. Mon., Red
Russ Morgan, 8:30 and 11:30 p.m. Sat., CBS; 8:00 p.m.
Tues., Red
Ozzie Nelson, 7:30 p.m. Sun., Blue
Ray Noble, 8 and 10:30 p.m. Mon., Red
Raymond Paige, 9:30 p.m. Tues., Red; 9:00 p.m. Fri.,
CBS
Jacques Renard, 8:30 and 11:30 p.m. Wed., CBS
B. A. Rolfe, 8:00 and 12:00 p.m. Sat., Red
Harry Salter, 7:15 and 10:30 p.m. Wed., CBS; 8 p.m.
Mon., Blue
Seymour Simons, 6:30 p.m. Sun., CBS
Harry Sosnik, 9 and 10:30 p.m. Sun., Blue
Phil Spitalny, 9:30 p.m. Mon., Red
Georgie Stoll, 9:30 p.m. Tues., CBS
Johnny Trotter, 10:00 p.m. Thurs., Red
Tommy Tucker, 6:00 p.m. Sun., MBS
Rudy Vallee, 8:00 p.m. Thurs., Red
Peter Van Steeden, 9:00 p.m. Mon., Red
Don Voorhees, 8:00 p.m. Wed., CBS
Mark Warnow, 7:30 and 10:30 p.m. Thurs., CBS;
5 p.m. Sun., CBS
Paul Whiteman, 8:30 and 11:30 Fri., CBS
Meredith Willson, 9:00 p.m. Thurs., Red
Victor Young, 8:30 and 11:30 p.m. Tues., CBS

DIALOG

Amos 'n' Andy, 7:00 and 11:00 p.m. Mon. through
Fri., Red
Easy Aces, 7:00 p.m. Tues., Wed., Thurs., Blue
Fibber McGee and Molly, 9:00 p.m. Mon., Red
Lun and Abner, 7:30 and 11:15 p.m. Mon., Wed.,
Fri., Blue
Pick and Pat, 8:30 and 11:30 p.m. Mon., CBS
Stroud Twins, 8:00 p.m. Sun., Red

DRAMA

Campana's First Nighter, 10:00 p.m. Fri., Red
 Campana's Grand Hotel, 8:30 p.m. Mon., Blue
 Death Valley Days, 8:30 p.m. Fri., Blue
 Gang Busters, 10:00 p.m. Wed., CBS
 Eddie Guest, 8:30 p.m. Tues., Blue
 Jean Hersholt, 2:30 p.m. Sun., CBS
 Hollywood Hotel, 9:00 p.m. Fri., CBS
 Hollywood Playhouse, 9:00 and 11:30 p.m. Sun., Blue
 Lone Ranger, 7:30 and 10:30 p.m. Mon., Wed., Fri.,
 CBS
 Lux Radio Theater, 9:00 p.m. Mon., CBS
 Helen Menken, 7:30 p.m. Tues., CBS
 One Man's Family, 8:00 p.m. Wed., Red
 Tyrone Power, 9:00 and 10:00 p.m. Sun., Blue
 Irene Rich, 9:45 and 11:00 p.m. Sun., Blue
 Edward G. Robinson, 8:00 p.m. Tues., CBS
 A Tale of Today, 6:30 p.m. Sun., Red
 Claire Trevor, 8:00 p.m. Tues., CBS
 We, The People, 7:30 and 10:30 p.m. Thurs., CBS

POPULAR PROGRAMS

American Album of Familiar Music, 9:30 p.m. Sun.,
 Red
 Believe It Or Not, 8:00 and 12:00 p.m. Sat., Red
 Major Bowes' Amateurs, 9:00 p.m. Thurs., CBS
 Major Bowes' Family, 11:30 a.m. Sun., CBS
 Brave New World, 10:30 p.m. Mon., CBS
 Carborundum Band, 7:30 p.m. Sat., CBS
 Cavalcade of America, 8:00 p.m. Wed., CBS
 Chase and Sanborn Hour, 8:00 p.m. Sun., Red
 Cheer Up, America, 7:45 p.m. Wed., Red
 Cities Service Concert, 8:00 p.m. Fri., Red
 Contented Program, 10:00 p.m. Mon., Red
 Death Valley Days, 8:30 p.m. Fri., Blue
 Double Everything, 6:30 p.m. Sun., CBS
 Gang Busters, 10:00 p.m. Wed., CBS
 Jack Haley's Variety Show, 8:30 p.m. Sat., Red
 Hammerstein Music Hall, 8:00 p.m. Fri., CBS
 Hobby Lobby, 7:15 and 10:30 p.m. Wed., CBS
 Hollywood Mardi Gras, 9:30 p.m. Tues., Red
 Hour of Charm, 9:30 p.m. Mon., Red
 How To Win Friends and Influence People, 10:45 p.m.
 Tues., Red
 It Can Be Done, 8:30 p.m. Tues., Blue
 Jello Program, 7:00 and 11:30 p.m. Sun., Red
 Johnny Presents—, 8:00 p.m. Tues., Red; 8:30 and
 11:30 p.m. Sat., CBS
 Kraft Music Hall, 10:00 p.m. Thurs., Red
 Warden Lawes, 10:00 p.m. Mon., Blue
 Log Cabin Review, 8:30 p.m. Sat., Red
 Magazine of the Air, 5 p.m. Sun., CBS
 Magic Key of RCA, 2:00 p.m. Sun., Blue
 Manhattan Merry-Go-Round, 9:00 p.m., Sun., Red
 March of Time, 8:00 p.m. Thurs., Blue
 Melody Puzzles, 8 p.m. Mon., Blue
 MGM Program, 9:00 p.m. Thurs., Red
 Mickey Mouse Theater, 5:30 p.m. Sun., Red
 National Barn Dance, 9:00 and 11:00 p.m. Sat., Blue
 Northern Messenger, 11:00 p.m. Sat., CBC
 Jack Oakie's College, 9:30 p.m. Tues., CBS
 Poetic Melodies, 7:00 and 11:00 p.m. Mon. through
 Fri., CBS
 Professor Quiz, 9:00 and 12:00 p.m. Sat., CBS
 Radio News Reel, 3:00 p.m. Sun., Red
 Salt Lake City Tabernacle, 12:30 p.m. Sun., CBS
 Saturday Night Serenade, 9:00 p.m. Sat., CBS
 Saturday Night Swing Club, 7:30 p.m. Sat., CBS
 Kate Smith Hour, 8:00 and 11:15 p.m. Thurs., CBS
 Songshop, 10:00 p.m. Fri., CBS
 Station E-Z-R-A, 7:15 p.m. Mon., Wed., Fri., Red
 Swing School, 10:00 p.m. Tues., CBS
 Texaco Town, 8:30 and 11:30 p.m. Wed., CBS
 Town Hall Tonight, 9:30 p.m. Wed., Red
 True Story Court, 9:30 p.m. Fri., Red
 Uncle Jim's Question Bee, 7:30 p.m. Sat., Blue
 Vick's Open House, 7:00 p.m. Sun., CBS
 Voice of Firestone, 8:30 p.m. Mon., Red
 Vox Pop, 9:00 p.m. Tues., Red

Waltz Time, 9:00 p.m. Fri., Red
 Watch the Fun go By, 9:00 and 12:00 p.m. Tues., CBS
 We, The People, 7:30 p.m. Thurs., CBS
 Your Hit Parade, 10:00 p.m. Sat., CBS
 Your Hollywood Parade, 10:00 p.m. Wed., Red
 Zenith Foundation, 10:00 p.m. Sun., CBS

SINGERS

Stuart Allen, 10:00 p.m. Sat., CBS
 Gene Austin, 6:00 p.m. Sun., CBS
 Kenny Baker, 7:00 and 11:30 p.m. Sun., Red
 Morton Bowe, 5 p.m. Sun., CBS
 Henry Burr, 9:00 and 11:00 p.m. Sat., Blue
 Rachel Carlaw, 9:00 p.m. Sun., Red
 John Carter, 8 p.m. Sun., Red
 Buddy Clark, 8 p.m. Mon., Blue; 9:30 p.m. Wed.,
 CBS
 Jerry Cooper, 9:00 p.m. Fri., CBS
 Alice Cornett, 10:00 p.m. Fri., CBS
 Richard Crooks, 8:30 p.m. Mon., Red
 Bing Crosby, 10:00 p.m. Thurs., Red
 Frank Crumit, 10:00 p.m. Fri., CBS
 Jean Dickenson, 9:30 p.m. Sun., Red
 Deanna Durbin, 8:30 and 11:30 p.m. Wed., CBS
 Mary Eastman, 9:30 p.m. Sat., CBS
 Wilbur Evans, 7:00 p.m. Sun., CBS
 Jack Fulton, 7:00 and 11:00 p.m. Mon. through Fri.,
 CBS
 Freddie Gibson, 10:00 p.m. Sat., CBS; 8 p.m. Mon.,
 Blue
 Julie Gibson, 5:30 and 11 p.m. Sun., CBS
 Harriet Hilliard, 7:30 p.m. Sun., Blue
 Al Jolson, 8:30 and 11:30 p.m. Tues., CBS
 Alan Jones, 9 p.m. Thurs., Red
 Reed Kennedy, 10:00 p.m. Fri., CBS
 Dorothy Lamour, 8:00 p.m. Sun., Red
 Rosemary Lane, 10:00 p.m. Wed., Red
 Frances Langford, 9:00 p.m. Fri., CBS
 Pierre Le Kreun, 9:00 p.m. Sun., Red
 Lullaby Lady, 10:00 p.m. Mon., Red
 Lulu Belle, 9:00 and 11:00 p.m. Sat., Blue
 Jeanette MacDonald, 7:00 p.m. Sun., CBS
 Smiling Ed McConnell, 5:30 p.m. Sun., Blue
 Lucille Manners, 8:00 p.m. Fri., Red
 Tony Martin, 8:00 and 10:30 p.m. Mon., Red
 Frank Munn, 9:30 p.m. Sun., Red; 9:00 p.m. Fri., Red
 Jane Pickens, 9:30 p.m. Wed., CBS
 Dick Powell, 10:00 p.m. Wed., Red
 Martha Raye, 8:30 and 11:30 p.m. Tues., CBS
 Jane Rhodes, 9:30 p.m. Tues., Red
 Lanny Ross, 9:30 p.m. Tues., Red
 Kate Smith, 8:00 and 11:15 p.m. Thurs., CBS
 Margaret Spears, 8:30 p.m. Mon., Red
 Marion Talley, 5:00 p.m. Sun., Red
 Lawrence Tibbett, 9:00 p.m. Wed., CBS
 Virginia Verrill, 8:30 p.m. Sat., Red

TALKS

Dale Carnegie, 10:45 p.m. Tues., Red
 Boake Carter, 7:45 and 11:15 p.m. Mon., Wed., Fri.,
 CBS
 Jimmy Fidler, 10:30 p.m. Tues., Fri., Red
 Gabriel Heatter, 7:30 and 10:30 p.m. Thurs., CBS
 Gen. Hugh Johnson, 10:00 p.m. Tues., Wed., Blue
 John B. Kennedy, 8:00 p.m. Sun., Blue
 Geo. McCall, 7:15 p.m. Tues., Thurs., CBS
 Harriet Parsons, 8:30 p.m. Wed., Blue
 Robert L. Ripley, 8:00 and 12:00 p.m. Sat., Red
 Deems Taylor, 9:00 p.m. Wed., CBS; 8:30 and 11:30
 p.m. Fri., CBS
 Lowell Thomas, 6:45 p.m. Mon. through Fri., Blue
 Dorothy Thompson, 10:45 p.m. Fri., Red; 7:30 p.m.
 Tues., Blue
 Walter Winchell, 9:30 and 11:15 p.m. Sun., Blue

SHORTWAVE BROADCASTING STATIONS OF THE WORLD

Frequencies are given in megacycles. Power is given in parentheses in kilowatts. Schedules are shown in Eastern Standard Time by the 24-hour clock. All schedules daily unless otherwise noted.

1.715 to 2.000	Amateur Stations.	5.975	OAX4P	Huancayo, Peru. (.25).
2.500	XEXP Monterrey, N. L. (.03).	5.980	HJ4ABD	Medellin, Colombia. 2000-2230.
3.500 to 4.000	Amateur Stations.	5.990	HJ2ABD	Bucaramanga, Colombia. (.67). 1900-2300.
3.040	YDA Tandjong Priok, Java, N.E.I. (10.).	6.000	CXA2	Montevideo, Uruguay. (.5).
4.107	HCJB Quito, Ecuador (1.). "Broadcasting Provincial." 0700-0815; 1130-1430; 1645-2215.		OAX5C	Ica, Peru. (.1).
4.273	RV15 Khabarovsk, USSR (Siberia). (20.). 0100-1000.		XEBT	Mexico City, D. F. (1.). 1800-2400.
4.600	HC2ET Guayaquil, Ecuador. Wed., Sat., 2100-2230.		RV59	Moscow, USSR. 1900-2115.
4.770	HJ2ABJ Santa Marta, Colombia. (.05). 1800-2230.		.....	Alderney, Channel Islands.
4.780	HJ1ABB Barranquilla, Colombia (.3). Apartado 715.	6.005	CFCK	Montreal, P. Q. (.075). 0700-2400.
4.787	HJ2ABC Cucuta, Colombia. (.25). "La Voz de Cucuta."		HP5K	Colon, Panama. 1800-2300.
4.810	YDE2 Solo, Java, N.E.I. (1).		VE9DN	Montreal, P. Q. (6.).
4.840	HJ3ABD Bogota, Colombia. 1930-2400. Apto. 509.		XZ1GY	Rangoon, Burma.
4.860	HJ1ABE Cartagena, Colombia.	6.007	ZRH	Pretoria, U. S. Africa. (5.). Sat. 1000-1645; Sun. 0800-1200; 1215-1515. Weekdays 1000-1600.
4.900	HJ3ABH Bogota, Colombia. (1.2). 1800-2300.	6.010	CJCX	Sydney, N. S. (1.).
5.003	HCT Guayaquil, Ecuador. "Radio Telefonica."		COCO	Havana, Cuba. (2.5) Sun., 2000-2200. Weekdays 1030-1300; 1600-2000.
5.415	PMY Bandoeng, Java, N.E.I. (.45). 0530-1000.		OLR2A	Prague, Czechoslovakia. (35.). Mon., Wed., Fri., 1600-1630.
5.500	TI5HH San Ramon, Costa Rica. (.2). 2000-2330.		.....	Saigon, French Indo-China.
5.710	TGS Guatemala City, Guat. (.2). Wed., Thurs., Sat., 1800-2100.	6.015	H13U	Santiago de los Caballeros, D. R. (.025). Mon. 2000-2100. Daily 0730-0930; 1200-1430; 1700-1930.
5.735	HC1PM Quito, Ecuador. Sat., 2100-2300.	6.020	DJC	Berlin, Germany. (50.). 1040-1630; 1650-2245
5.740	YV2RA San Cristobal, Venez. Weekdays 1830-2130.		XEUW	Veracruz, Ver. (.02). 1800-2400.
5.763	YNOP Managua, Nicaragua. 2000-2130.	6.030	HPSB	Panama City, Panama. (1). 1700-2200.
5.800	YV5RC Caracas, Venez. (1.). Sun., 0830-2130. Weekdays 0700-2200.		OLR2B	Prague, Czecho. (35.).
5.813	TI6PH2 San Jose, Costa Rica.		VE9BJ	St. John, N. B. (.05).
5.825	TI6PH (also TIXGF3), San Jose, Costa Rica. 1100-1300; 1800-2200.		XEBQ	Mazatlan, Sin. (.05).
5.850	YV1RB Maracaibo, Venez. Sun., 1145-1245; Weekdays 0845-0945; 1115-1215; 1645-2145.	6.033	HJ4ABP	Medellin, Colombia. (2.5). 1800-2300.
5.855	H11J San Pedro de Macoris, D. R. (.04). 1200-1400; 1830-2100.	6.038	HJ1ABG	Barranquilla, Colombia. (.15). 1100-2300.
5.875	HRN Tegucigalpa, Honduras. (.4). Sun., 2030-2130. Weekdays 2030-2200.	6.040	PRA8	Pernambuco, Brazil. (3.). 1500-2000.
5.885	H19B Santiago, D. R. 1800-2300.		W1XAL	Boston, Mass. (20.). Daily exc. Sat. and Sun., 1900-2100.
5.895	YV3RA Barquisimeto, Venez. 1800-2200.		W4XB	Miami, Fla. (5.).
5.905	TI1S San Jose, Costa Rica. 1800-2300.		YDA	Tandjong Priok, Java, N.E.I. (10.).
5.913	YV4RH Valencia, Venez. 1700-0100.	6.044	ZP14	Villarica, Paraguay. 1700-1800.
5.925	HH2S Port-au-Prince, Haiti. 1900-2200.	6.045	XETW	Tampico, Tams.
5.935	YV1RL Maracaibo, Venez. (.3). 1700-2230.	6.050	GSA	Daventry, Ct. Britain. (20.).
5.945	TG2X Guatemala City, Guat. (.2). Sun., 1300-1400; Mon., Thurs., Sat., 1600-1800; 2200-2400.		HJ6ABA	Pereira, Colombia (6054 assigned), 1800-2200.
5.947	PJC1 Willemstad, Curacao, N.W.I. (.15) 1835-2035.	6.060	VQ71O	Nairobi, Kenya. 1100-2430.
			W3XAU	Philadelphia, Pa. (10.). 2000-2300.
			W8XAL	Cincinnati, Ohio. (10.). Daily 2300-0200. Sun. 0800-2006. Weekdays 0600-2000.
		6.062	SBG	Motala, Sweden. (.5). 1330-1700.
		6.064	VP3MR	Georgetown, British Guiana. (.15) (assigned 6010). 0745-1015; 1645-2045.

SHORTWAVE BROADCASTING STATIONS OF THE WORLD

6.065	HP5F	Colon, Panama.	6.282	COHB	Sancti-Spiritus, Cuba. (.15). 2100-2300.
6.070	CFRX	Toronto, Ont. (1.). 1000-2300.	6.296	OAX4G	Lima, Peru. (.4), 1900-2130.
	HJ3ABF	Bogota, Colombia. (.05). 1900-2230.	6.300	YV4RD	Maracay, Venez. 1700-2300.
6.075	YV1RD	Maracaibo, Venez. 1900-2400.	6.310	HIVZ	Trujillo, D. R. (.1).
	XEBW	Guadalajara, Jal. (.045).	6.312	ZP14	Villarrica, Paraguay (1.). 1100-1700.
	XECU	Guadalajara, Jal.	6.330	COCW	Havana, Cuba. 0700-2400.
6.077	OAX4Z	Lima, Peru. (10.) (6082 assigned). 1900-2330.	6.335	OAX1A	Chiclayo, Peru. (.2). Daily 2000-2300; Sat. 2000-2400.
6.080	DJM	Berlin, Germany. (.50.).	6.340	H11X	Trujillo, D. R. (.5). Tues., Fri., 2000-2200.
	VE9CS	Vancouver, B. C. (.01). 1400-2400.	6.357	HRP1	San Pedro Sula, Honduras.
	W9XAA	Chicago, Ill. (20.). Daily 1900-2200. Weekdays 0600-0730.	6.365	YV1RH	Maracaibo, Venez. 1900-2400.
6.085	HJ5ABD	Cali, Colombia. 1900-2200.	6.380	YV5RF	Caracas, Venezuela.
6.090	CRXC	Toronto, Ont. (1.). 0745-1700.	6.383	VP2LO	St. Kitts, Brt. West Indies. (.5).
	HJ4ABC	Ibague, Colombia. 2000-2200.	6.400	YV5RH	Caracas, Venezuela.
6.095	ZGE	Kuala Lumpur, F.M.S.	6.410	TIPG	San Jose, Costa Rica. (1.). 1800-2230.
6.097	ZRJ	Johannesburg, U. S. Africa. (.2). Sat. 2345-0045; 0315-0730; 0830-1130. Sun. 0330-0430 or 0400-0500; 0800-1130. Other days 2345-0045; 0315-0730; 0900-1130.	6.416	YV6RC	Bolivar, Venez.
	ZRK	Cape Town, U. S. Africa. (.5). Sun. 1200-1500; Other days 1200-1600; 2345-0045.	6.420	H11S	Santiago, D. R. (.02). 1800-2300.
6.100	W3XAL	Bound Brook, N. J. (35.). 2100-0100.	6.425	OAX4K	Lima, Peru. (.2).
	W9XF	Chicago, Ill. (10.). 1700-2005.		W3XL	Bound Brook, N. J. (100.). Irreg.
	W9XXX	Belgrade, Jugoslavia. (1.). 1200-1700.		W10XDA	Effie M. Morrissey (1.).
6.108	HJ4ABB	Manizales, Colombia. 1800-2400.	6.450	H14V	San Francisco de Macoris, D. R. (.025).
6.110	GSL	London, Gt. Britain. (20.). 1800-2030; 2120-2320.	6.460	COCA	Havana, Cuba.
	VUC	Calcutta, India.	6.465	YV3RB	Barquisimeto, Venez. "La Voz de Lara."
6.115	OLR2C	Prague, Czecho. (35.).	6.479	H18A	Trujillo, D. R.
6.118	XEUZ	Mexico City, D. F. (.5). 2300-0300.	6.485	H11L	Santiago de los Caballeros, D. R. "Emisora Nacional." 0630-0800; 1730-1900; 2000-2100.
6.120	W2XE	New York, N. Y. (10.).	6.479	H18A	Trujillo, D. R.
	XEFT	Veracruz, Ver. (.012).	6.500	H1L	Trujillo, D. R. (.05).
	YDA5	Bandoeng, Java, N.E.I. (1.5).	6.508	YV1RM	Maracaibo, Venez.
6.122	HJ3ABX	Bogota, Colombia. 1730-2230.	6.508	Radio Guardia Civil	Tetuan, Sp. Morocco. 1900-2000.
	OAX6A	Arequipa, Peru. (.1).	6.520	YV4R	Valencia, Venezuela. 1700-2200.
6.125	CXA4	Montevideo, Uruguay. (1.). 1600-2145.	6.534	EDR4	Palma, Majorca, Balearic Isl.
	HP5H	Panama City, Panama	6.540	YN1GG	Managua, Nicaragua.
	XEPW	Mexico City, D. F. 2100-2400.	6.545	YV6RB	Bolivar, Venez. 2100-2300.
6.128	OAX7A	Cuzco, Peru. (.1).	6.550	TIRCC	San Jose, Costa Rica. (.5). Tues., Thurs., Sat. 1700-1800.
6.130	COCD	Havana, Cuba. (.35). 1700-0100	6.555	H14D	Trujillo, D. R. (.025). 1700-2000.
	VE9HX	Halifax, N. S. (.5). 1700-2300.	6.575	HC1VT	Ambato, Ecuador.
6.132	VP3BG	Georgetown, British Guiana.	6.590	COCU	Havana, Cuba. Sun. 1900-2400; Weekdays 1900-0100.
6.137	CR7AA	Lourenco Marques, Port. East Africa. Sun. 0600-0900. Weekdays 9500-0700.	6.622	Prado	Rio Bamba, Ecuador. Thur. 2100-2300.
6.138	HJ4ABD	Medellin, Colombia.	6.630	HIT	Trujillo, D. R. (.2). Weekdays, 1800-2100.
6.140	W8XK	Pittsburgh, Pa. (40.). 2200-sign off.	6.635	HC2RL	Guayaquil, Ecuador. Sun. 1745-1945. Tues. 2115-2315.
6.145	HJ4ABE	Medellin, Colombia (1.). "La Voz de Antioquia." 1800-2230.	6.690	TIEP	San Jose, Costa Rica. 1600-2300.
6.150	CJRO	Winnipeg, Man. (2.). 1800-2400.	6.700	TIVL	San Jose, Costa Rica.
	CSL	Lisbon, Portugal. 0700-0830; 1400-1900.	6.720	PMH	Bandoeng, Java, N.E.I. (1.5).
	VPB	Colombo, Ceylon. (.3). Sun. 0700-1130; Weekdays 0630-1230.	6.730	H13C	La Romana, D. R. 1745-2000.
6.150	ZRD	Durban, U. S. Africa. (.01). Daily 2345-0045.	6.780	H1H	San Pedro de Macoris, D. R. (.15). 1900-2000.
6.153	H15N	Ciudad Moca, D. R. (.1). 1900-2000.	6.800	H17P	Trujillo, D. R. 1930-2100.
6.156	YV5RD	Caracas, Venez. 1030-1330; 1530-2200.	6.850	PZH	Paramaribo, Surinam.
6.174	XEXA	Mexico City, D. F. 1700-2100.	6.990	VK8XI	Puerto Limon, Costa Rica. (.4). Sun., 1600-1700. Daily 1200-1300.
6.180	TG2	Guatemala City, Guatemala.	7.000	to 7.300	Port Moresby, Papua. (Doubtful). Amateur stations.
6.190	H11A	Santiago de los Caballeros, D. R. (.05). Weekdays 2000-2200.	7.100	F08AA	Papeete, Tahiti. (.2). Tues., Fri., 2300-2400.
6.198	H18Q	Trujillo, D. R. 1700-1900.			Guadalajara, Jal. "Voice of the Revolutionary Party."
6.200	COKG	Santiago, Cuba. (.05). Daily exc. Sat. 0900-2300.	7.200	YNAM	Managua, Nicaragua. 2000-2400.
	XEXS	Mexico City, D. F.	7.380	XECR	Mexico City, D. F. (20.). Sun., 1800-2000.
6.205	YV1RI	Coro, Venez. (.15). 1700-2200.			Radio Liberté. 1900-2000.
6.225	YV1RG	Valera, Venez. 1730-1930.	7.500		Salamanca, Spain. "Radio Nacional".
6.235	HRD	La Ceiba, Honduras. (.25). 2000-2300.	7.540	RKI	Moscow, U. S. S. R. (Assigned 7520).
6.243	H1N	Trujillo, D. R. (.75).	7.797	HBP	Geneva, Switz. (20.). Sat., 1730-1830.
6.250	YV5RJ	Caracas, Venez.	7.894	YSD	San Salvador, E. S. 2100-2230.
6.270	YV5RP	Caracas, Venez. (1.2).			
6.280	H1G	Trujillo, D. R. (.05).			

SHORTWAVE BROADCASTING STATIONS OF THE WORLD

8.580	YNPR	Managua, Nicaragua. (.5). "Radio Pilot". 1330-1430; 2000-2200.	9.562	OAX4T	Lima, Peru. (10.). 1130-1330.	
8.600	HC1EC	Quito, Ecuador.	9.565	VUB	Bombay, India. (4.5).	
8.655	WJOXDA	Effie M. Morrissey. (.1).	9.570	KZRM	Manila, P. I. Mon. through Fri. 0500-0900; 1630-1800. Sat., 0500-1000; 1630-1800. Sun. 0500-1000.	
8.665	COJK	Camaguey, Cuba. (2.4). 1800-0100.		W1XK	Boston, Mass. (10.). Sun. 0800-0100. Weekdays 0600-0100.	
8.830	HCJB	Quito, Ecuador (1.). "La Voz de los Andes." 0700-0815; 1130-1430; 1645-2215.		W8XK	Pittsburgh, Pa. (40.). (Not used).	
9.030	COBZ	Havana, Cuba.	9.580	GSC	Davenport, Gt. Britain. (20.). 1615-2030; 2120-2320.	
9.125	HAT4	Budapest, Hungary. (20.). Sun., Wed., 1900-2000. Sat., 1800-1900.		VK3LR	Melbourne, Australia. (.5). 0100-0945.	
9.200	COCA	Havana, Cuba. P. O. Box 3488.		9.590	PCJ	Huizen, Netherlands. (20.). Sun. 1400-1500; 1900-2115; Mon. 2100-2230; Tues., 1400-1530; 1900-2130; Wed., 1900-2130; Thurs., 1900-2130.
9.210	COBX	Havana, Cuba. (assigned 9200).		VK2ME	Sydney, Australia. (20.). Sun., 0100-0300; 0430-0830; 0900-1100.	
9.300	HC2CW	Guayaquil, Ecuador. "Ondas del Pacifico."		VK6ME	Perth, Australia. (5.). Weekdays 0600-0800.	
9.340	OAX4J	Lima, Peru. (.2). 1200-1500; 1700-0100.		W2XE	New York, N. Y.	
9.345	HBL	Geneva, Switz. (20.). Fri. 1430-1445; 1930-1945; 2000-2015.		W3XAU	Philadelphia, Pa. (10.). 1200-2000; Thurs., 2200-2300.	
9.350	COBC	Havana, Cuba. Apto. 132.		W8XAL	Cincinnati, Ohio. (10.). (Under construction).	
	HS8PJ	Bangkok, Siam. Mon., Thurs., 0730-1000.		9.595	HBL	Geneva, Switzerland. (18.). Sat. 1730-1830.
9.415	PJC2	Willemstad, Curacao. N.W.I.		RAN	Moscow, USSR. 1900-2115.	
	PLV	Bandoeng, Java, N.E.I. (80.). 1000-1100.		ZHO or ZHP	Singapore, St. Settlements.	
9.428	COCH	Havana, Cuba. (.15). 0700-0100.		9.600	CB960	Santiago, Chile. 1800-1930.
9.445	HC2RA	Guayaquil, Ecuador. Sun. 1600-2200. Daily 2100-2200.		9.605	HP5J	Panama City, Panama. (1.). 1830-2300.
9.450	HC2ODA	Guayaquil, Ecuador. 2100-2200.		9.606	ZRK	Johannesburg, U. of S. Africa. 2345-0045. Add: P. O. Box 4559.
9.460	XGOX	Nanking, China. (.5).		9.618	HJ1ABP	Cartagena, Colombia. (.75). 1800-2200.
9.470	PJC1	Willemstad, Curacao, N.W.I. (.15). Sun. 1035-1235.		9.630	HJ7ABD	Bucaramanga, Colombia. "Radio Bucaramanga." Taihoku, Taiwan. 0430-1030.
9.480	EAR	Madrid, Spain. (20.). Mon. at 2000; Tues., Fri. at 2100.		9.635	I2RO	Rome, Italy. (25.). 1230-2100.
	XEDQ	Guadalajara, Jal. 1900-0100.		9.640	CX8A	Montevideo, Uruguay. 0700-2400.
9.500	EAC	Madrid, Spain.		9.645	HH3W	Port-au-Prince, Haiti. (.03). 1300-1400; 1900-2000.
	HJ1ABE	Cartagena, Colombia. 1700-1800; 2000-2230.		9.650	CS2WA	Lisbon, Portugal. (2.). Tues., Thurs., Sat., 1600-1900.
	XEWW	Mexico City, D. F. (10.). 0800-2400.		9.660	CR5AA	Lobito, Angola, Port. West Africa. (.5). Wed., Sat., 1445-1645.
9.501	PRF5	Rio de Janeiro, Brazil. (60.). 1645-1745.		9.670	LRX	Buenos Aires, Argentina. (5.). 1030-2430.
9.504	OLR3B	Prague, Czecho. (35.).		9.670	T14NRH	Heredia, Costa Rica. Tues., Thurs., Sat., 2100-2200. Sun., 0700-0800.
9.510	GSB	Davenport, Gt. Britain. (20.). 0315-0530; 1220-1600; 1615-2030; 2120-2320.		9.685	TGWA	Guatemala City, Guat. (10.). "Radio Nacional." Sun. 2000-2200. Mon., Thurs., 2100-2300. Wed., Sat. 2200-2400.
	HJU	Buenaventura, Colombia. Mon., Wed., Fri. 2000-2300.		9.700	COCQ	Havana, Cuba. (assigned 9750). 0700-0100.
	HS8PJ	Bangkok, Siam. Mon., Thurs., 0800-1000.				Fort de France, Martinique. "Radio Martinique." (2.). Box 136. 1845-1945.
	VK3ME	Melbourne, Australia. (5.). Weekdays 0400-0700.		9.790	COCM	Havana, Cuba. (assigned 9833).
9.520	HJ4ABH	Armenia, Colombia. (1.). 0800-1100; 1800-2200.		9.830	IRF	Rome, Italy.
	OZF	Copenhagen, Denmark. (6.). 1400-1840.		9.860	EAQ	Madrid, Spain. (20.).
	YSH	San Salvador, E. S.		9.925	JDY	Darien, Manchukuo. 0715-0800.
		Paris, France. "Radio Liberte."		9.940	CSW	Lisbon, Portugal. (5.). 1300-2000.
9.523	ZRH	Pretoria, U. of S. Africa. (5.). Add: Box 4559, Johannesburg.		10.000	COBC	Havana, Cuba.
9.525	ZBW3	Hong Kong. (2.5). Sat. 2100-2400. Sun. 0000-0100; 0300-0930. Other days 0400-1000; 2330-0100.		10.065	CQN	Macau, Portuguese China.
9.530	LKJ1	Jeloy, Norway. (1.). 0500-0800.		10.070		Communist Station.
	W2XAF	Schenectady, N. Y. (40.). Sat. 1200-2400. Other days 1600-2400.		10.220	PSH	Rio de Janeiro, Brazil. (12.). 1900-2100.
	W6XBE	Belmont, Calif. (20.). General Elec. Co. (Under construction).		10.260	PMN	Bandoeng, Java, N.E.I. (1.5). 0530-1100.
9.535	JZ1	Nazaki, Japan. (50.). 1500-1600; 1630-1730.				
9.536	VPD2	Suva, Fiji. (2.). 0530-0700.				
9.540	DJN	Berlin, Germany. (50.). 0005-1000; 1650-2245.				
9.550	OLR3A	Prague, Czecho. (35.). Daily 1255-1640. Weekdays 0925-1010; Mon., Wed., Fri., 2000-2235.				
	XEFT	Veracruz, Ver. (.02). 1930-2400.				
9.560	DJA	Berlin, Germany. (50.). 0005-1100; 1650-2245.				
	HJ1ABB	Barranquilla, Colombia. (.3).				
	YDB	Sourabaya I, Java, N.E.I. (1.).				

SHORTWAVE BROADCASTING STATIONS OF THE WORLD

10.330	ORK	Brussels, Belgium. (11.). 1330-1500.	11.855	DJP	Berlin, Germany. (50.).
10.370	EAJ43	Santa Cruz de Tenerife, Canary Isl. 2000-2100.	11.860	GSE	Daventry, Gt. Britain. (20.).
.....		"Radio Nacional," Salamanca, Spain. 1700-1825; 2000-2045.		YDB	Soerabaja I, Java, N.E.I. (1.).
10.530	JIB	Taihoku, Taiwan. (6.). 0900-1030.	11.870	W8XK	Pittsburgh, Pa. (40.). 1900-2200.
10.600	ZIK2	Belize, British Honduras. Tues., Thurs., Sat., 1930-1945.	11.875	OLR4C	Prague, Czecho. (35.).
10.660	JVN	Nazaki, Japan. (50.).	11.885	TPA3	Pontoise, France. 0200-0500; 1215-1800.
10.670	CEC	Santiago, Chile. (4.).	11.895	HP5I	Aguadulce, Panama. 1930-2130.
10.700	.....	Paris, France. "Radio Milan."	11.900	CD1190	Valdivia, Chile. 1000-1300; 1900-2200.
10.740	JVM	Nazaki, Japan. (50.).		OLR4D	Prague, Czecho. (35.).
10.823	"Radio Nacional,"	Salamanca, Spain. 1630-1800.	11.955	XEWI	Mexico City, D. F. (.25). 1930-2400.
11.000	PLP	Bandoeng, Java, N.E.I. (1.5).	11.960	IUC	Addis Ababa, Ethiopia.
11.040	CSW	Lisbon, Portugal. (5.). 1800-2000.		H12X	Trujillo, D. R. (.5). Tues., Fri., 2000-2200. Sun. 0740-1040.
11.402	HBO	Geneva, Switz., Fri. 1400-1415; Sat. 1845-2030.	12.000	RNE	Moscow, USSR. (20.). Sun. 1000-1100. Sun., Wed., 0600-0700. Sun., Mon., Wed., Fri., 1600-1700.
11.435	COCX	Havana, Cuba. Sun. 1800-2100. Other days 0800-2400.	12.120	.....	Algiers, Algeria.
11.535	SPD	Warsaw, Poland. (2.). Daily 1800-1900. Sun. until 2000.	12.235	TFJ	Reykjavik, Iceland. (7.5). Sun., 1345-1430.
11.698	SBG	Motala, Sweden. (.5). 0100-0130.	12.290	GBU	Rugby, Gt. Britain.
11.700	CB1170	Santiago, Chile. 1000-1400; 1530-2300.	12.295	CB615	Santiago, Chile.
	HP5A	Panama City, Pan. (.5). 2000-2330.	12.500	HIN	Trujillo, D. R. (.75).
.....		Saigon, Fr. Indo-China. 0500-1100.	12.675	.....	Guayaquil, Ecuador. "Radio Paris."
11.710	XEWB	Guadalajara, Jal.	12.765	VP2LO	St. Kitts, Brt. West Indies. (.5).
	YSM	San Salvador, E. S.	13.635	SPW	Warsaw, Poland. (10.). Mon., Wed., Fri., 1230-1330. Daily 1800-1900.
11.713	TPA4	Pontoise, France. 0615-1300.	13.986	DJS	Berlin, Germany. (20.).
11.718	CR7BH	Lourenco Marques, Port. East Africa. (.2). Sun. 0530-0700. Other days 0430-0630.	14.000	to 14.400	Amateur Stations.
11.720	CJRX	Winnipeg, Man. (2.). 1800-2400.	14.050	EA9AH	Tetuan, Sp. Morocco. (.5). Aptdo. 124. At 1645 and 1900.
11.730	PHI	Hilversum, Netherlands. (23.6).	14.400	UPL	North Pole. 1400-1605.
	XETM	Villahermosa, Tab.	14.420	HC1JB	Quito, Ecuador. "Radio Rodante."
11.740	HP5L	David, Panama. (.35).	14.535	HBJ	Geneva, Switz. Sat. 1845-2100.
11.750	GSD	Daventry, Gt. Britain. (20.). 0315-0530; 0855-1200; 1220-1600; 2120-2320.	14.900	LZA	Sofia, Bulgaria.
	HVJ	Vatican City.	15.040	RKI	Moscow, USSR. 1900-2115.
11.760	OLR4B	Prague, Czecho. (35.).	15.110	DJL	Berlin, Germany. (50.). 0000-0200; 0800-0900; 1040-1630.
	TGWA	Guatemala City, Guat. (10.). Mon., Thurs., 2000-2200.	15.116	OLR5C	Prague, Czecho. (35.).
11.770	DJD	Berlin, Germany. (50.). 1040-1630; 1650-2245.	15.120	HVJ	Vatican City. (10.). 1000-1030.
11.790	W1XAL	Boston, Mass. (20.). Sat. 1345-1830. Sun. 1500-1800. Other days 1645-1830.	15.140	GSF	Daventry, Gt. Britain. (15.). 0315-0530; 0545-1200.
11.795	DJO	Berlin, Germany. (8.).	15.150	YDC	Bandoeng, Java, N.E.I. (3.).
11.796	OAX5A	Ica, Peru. (.1). 1200-1600; 1900-2330.	15.160	JZK	Nazaki, Japan. (50.).
11.800	COGF	Matanzas, Cuba. (1.). 1300-1600; 1800-2200.		XEWW	Mexico City, D. F. (10.).
	JZJ	Nazaki, Japan. (50.). 1500-1600; 1630-1730; 0800-0900; 0030-0130.	15.170	CXA14	Montevideo, Uruguay.
	OER2	Vienna, Austria. (1.5). Weekdays 0900-1800.		TGWA	Guatemala City, Guat. (10.). 1200-1400.
11.805	.....	Copenhagen, Denmark. 1830-2100.	15.175	RV96	"Radio Nacional," Lima, Peru.
11.810	I2RO	Rome, Italy. (25.). 0500-1220.			Moscow, USSR.
11.820	GSN	Daventry, Gt. Britain.	15.180	GSO	Daventry, Gt. Britain. 0315-0530; 0545-1000; 1615-1800.
11.830	KZRM	Manila, P. I.	15.200	DJB	Berlin, Germany. (8.). Sun. 1110-1225. Daily 0005-1100; 1650-2245.
	W2XE	New York, N. Y. (10.). Daily 1830-1900. Sun. 1900-2400.	15.210	W8XK	Pittsburgh, Pa. (40.). 0900-1900.
	W9XAA	Chicago, Ill. (20.).	15.220	PCJ	Huizen, Netherlands. (20.). Sun. 0330-0500. Wed. 0800-1030.
11.840	CSW	Lisbon, Portugal. (5.). 1300-2000.	15.230	OLR5A	Prague, Czecho. (35.). Sun. 0600-0730. Weekdays 0620-0730.
	KZRM	Manila, P. I. Mon. through Fri. 0500-0900; 1630-1800. Sat. 0500-1000; 1630-1800. Sun. 0500-1000.	15.243	TPA2	Pontoise, France. 0600-1100.
	OLR4A	Prague, Czecho. (35.). 1915-2155.	15.250	W1XAL	Boston, Mass. (20.). Fri. 2100-

SHORTWAVE BROADCASTING STATIONS OF THE WORLD

		2200; Sun. 1015-1200; Daily exc. Sat. and Sun. 1415-1600.		W8XK Pittsburgh, Pa. (40.). W9XAA Chicago, Ill. (5.). W9XF Chicago, Ill. (10.). JZL Tokyo, Japan.
15.260	GSI	Daventry, Gt. Britain.	17.785	GSS Daventry, Gt. Britain. (15.). 0315-0530; 0545-1200; 1220-1600.
15.270	HI3X W2XE	Trujillo, D. R. (.5). Sun., 0800-1100. New York, N. Y. (10.). Sat., Sun. 1430-1800; 2000-2400. Mon. through Fri. 1300-1800; 2030-2400.	17.790	TGWA Guatemala City, Guat. (10.). H5BP Bangkok, Siam. (5.). Mon. 0800-1000.
15.280	DJQ	Berlin, Germany. (50.). Sun. 1110-1225. Daily 0005-0545; 0600-0800; 0815-1100; 1650-2245.	21.450	OLR6A Prague, Czecho. (35.).
15.290	LRU	Buenos Aires, Arg. (5.). 0800-1000.	21.460	W1XAL Boston, Mass. (10.). Tests irregularly.
15.300	XEBM	Mazatlan, Sin. 1000-2300.	21.470	GSH Daventry, Gt. Britain. 0545-0855; 0855-1200.
15.310	GSP	Daventry, Gt. Britain. 1345-1600.	21.480	W2XAD Schenectady, N. Y. (25.).
15.320	OLR5B	Prague, Czecho. (35.).	21.520	W2XE New York, N. Y. (10.). Sat., Sun., 0800-1300; Other days 0730-1000.
15.330	W2XAD W6XBE	Schenectady, N. Y. (25.). 1100-2100. Belmont, Calif. (20.). (Under construction).		W3XAU Philadelphia, Pa.
15.340	DJR	Berlin, Germany. (50.). 0800-0900; 1650-2245.	21.530	GSJ Daventry, Gt. Britain. 0545-0855; 0915-1030.
15.370	HAS3	Budapest, Hungary. (20.). Sun. 0900-1000.	21.540	W8XK Pittsburgh, Pa. (40.). 0700-0900.
15.440	XEBM	Mazatlan, Sin. (.05). 1000-2300.	21.550	GST Daventry, Gt. Britain.
15.555	CO9WX	Tuinicu, Cuba. (2.).	25.950	W4XH Spartanburg, S. C. (.05) (WSPA). W6XKG Los Angeles, Calif. (.1) (KGFJ). 24 hours daily.
17.310	W3XL	Bound Brook, N. J. (20.).		W9XUP St. Paul, Minn. (1.) (KSTP).
17.375	LSY	Buenos Aires, Arg. Fri. 1600-1700.	26.100	GSK Daventry, Gt. Britain. W9XJL Superior, Wis. (.08) (WEBC).
17.760	DJE	Berlin, Germany. (50.). Sun. 1110-1225. Daily 0005-1000.	26.400	W9XAZ Milwaukee, Wis. (.5) (WTMJ). 1300-2400.
	W2XE	New York, N. Y. (10.). 1830-2000.	26.550	W2XQO Flushing, N. Y. (.1) (WMCA).
17.770	PHI	Hilversum, Netherlands. (23.6). Sun., 0725-1025. Mon., Tues., Thurs., Fri., 0825-1000. Sat., 0825-1040.	27.100	W10XDA Effie M. Morrissey (.1). 28.000 to 30.000 Amateurs. 56.000 to 60.000 Amateurs. 110.000 to infinity. Amateurs.
17.780	W3XAL	Bound Brook, N. J. (35.). 0900-1740; 1800-2100.		

Time Conversion Table

The time given in our indices is Eastern Standard by the 24-hour clock.

EST 24-hr. Clock	EST	CST	MST	PST	GMT
0000	Midn't	11 pm	10 pm	9 pm	0500
0100	1 am	Midn't	11 pm	10 pm	0600
0200	2 am	1 am	Midn't	11 pm	0700
0300	3 am	2 am	1 am	Midn't	0800
0400	4 am	3 am	2 am	1 am	0900
0500	5 am	4 am	3 am	2 am	1000
0600	6 am	5 am	4 am	3 am	1100
0700	7 am	6 am	5 am	4 am	1200
0800	8 am	7 am	6 am	5 am	1300
0900	9 am	8 am	7 am	6 am	1400
1000	10 am	9 am	8 am	7 am	1500
1100	11 am	10 am	9 am	8 am	1600
1200	Noon	11 am	10 am	9 am	1700
1300	1 pm	Noon	11 am	10 am	1800
1400	2 pm	1 pm	Noon	11 am	1900
1500	3 pm	2 pm	1 pm	Noon	2000
1600	4 pm	3 pm	2 pm	1 pm	2100
1700	5 pm	4 pm	3 pm	2 pm	2200
1800	6 pm	5 pm	4 pm	3 pm	2300
1900	7 pm	6 pm	5 pm	4 pm	2400
2000	8 pm	7 pm	6 pm	5 pm	0100
2100	9 pm	8 pm	7 pm	6 pm	0200
2200	10 pm	9 pm	8 pm	7 pm	0300
2300	11 pm	10 pm	9 pm	8 pm	0400
2400	Midn't	11 pm	10 pm	9 pm	0500

For times throughout the entire world consult the RADEX Time Converter.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KEY TO SYMBOLS

As shown in the Index by
Frequencies and Dial Numbers

Frequency is given in kilocycles; wave lengths in meters. Night power is shown in watts in third column. Daytime power is shown in parentheses in fourth column in kilowatts, thus (.25) indicating 250 watts. Some stations outside the United States use a "split frequency." Their exact frequency is shown in fourth column.

Second Column Symbols

- a Verifies reception for return postage.
- b Verifies only occasionally.
- c Does not verify.
- d Verification 10c; letter 25c.
- h Sends own station stamp for 10c.
- i Sends own station stamp for 5c.
- j Sends own station stamp for postage.
- k Has no stamps.
- m Verifies for 5c.

- n Weather or time only.
- z No information available.

Fourth Column Symbols

- B National "Blue" network.
- C Columbia network.
- D Day time only.
- Dn Day time with occasional evening hours.
- F Canadian Brdctg. Corp.
- M Mutual Brdctg. Sys.
- N National "Red" and "Blue" networks.
- P Has construction permit only.

- R National "Red" network.
 - S Sunday only.
 - Sy Synchronized.
 - X Has permit to increase 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.
.... No information.

The sign-on and sign-off time of stations is shown in Eastern Standard Time. "ss" means "sunset."

540 kcys. (555.2)

CJRM	ak	1000	F	Regina, Sask.	—9:30 am—1:30 am
ZNS	ak	400	....	Nassau, Bahamas	—1:30 pm—9:30 pm

550 kcys. (545.1)

CFNB	ak	500	F (1)	Fredericton, N. B.	—7:00 am—11:00 pm
KFUO	ak	500	2 (1)	St. Louis, Mo.	—8:00 am—Midnight
KFYR	ak	1000	N (5)	Bismarck, N. Dak.	—8:00 am—1:00 am
KOAC	ak	1000	....	Corvallis, Ore.	—Noon—Midnight
KSD	ak	1000	2R (5)	St. Louis, Mo.	
KTSA	ak	1000	C (5)	San Antonio, Tex.	
WDEV	ak	500	D	Waterbury, Vt.	
WGR	ak	1000	C (5)	Buffalo, N. Y.	—7:00 am—midnight
WKRC	ak	1000	C (5)	Cincinnati, Ohio	—6:30 am—....
WSVA	ak	500	D	Harrisonburg, Va.	
XEFC	ak	100	....	Merida, Yuc.	

560 kcys. (535.4)

KFDM	ak	500	(1) N	Beaumont, Texas	—8:30 am—2:00 am
KLZ	ak	1000	C (5)	Denver, Colo.	—10:00 am—4:00 am
KSFO	ak	1000	C (5)	San Francisco, Cal.	—6:00 am—....
KWTO	ak	5000	D	Springfield, Mo.	—7:00 am—midnight
WFIL	ak	1000	BM	Philadelphia, Pa.	—6:00 am—4:00 am
WIND	ak	1000	(5)	Gary, Ind.	—7:00 am—midnight
WIS	ak	1000	N (5)	Columbia, S. C.	—6:00 am—midnight
WQAM	ak	1000	C	Miami, Fla.	

570 kcys. (526.0)

CMCY	ak	5000	X	Havana, Cuba	
KGKO	ak	250	CXY (1)	Wichita Falls, Tex.	
KMTR	ak	1000	....	Los Angeles, Calif.	
KVI	ak	1000	C (5)	Tacoma, Wash.	—9:00 am—3:00 am
WKBN	ak	500	C1	Youngstown, Ohio	
WMCA	ak	1000	....	New York, N. Y.	
WNAX	ak	1000	C (5)	Yankton, S. Dak.	—6:45 am—....
WOSU	ak	750	I (1)	Columbus, Ohio	—9:00 am—11:00 pm
WSYR	ak	1000	B (WSYU)	Syracuse, N. Y.	—7:00 am—1:00 am
WWNC	ak	1000	N	Asheville, N. C.	—7:30 am—1:00 am

580 kcys. (516.9)

CFPR	ak	50	....	Prince Rupert, B. C.	—8:00 am—midnight
CHRC	ak	100	....	Quebec, P. Q.	—8:00 am—midnight
CKCL	ak	100	F	Toronto, Ont.	—8:00 am—midnight
CKUA	ak	500	F	Edmonton, Alta.	
KMJ	ak	1000	N	Fresno, Calif.	—10:00 am—3:00 am

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

K SAC	ak	500	2 (1)	Manhattan, Kans.	—10:30 am—6:30 pm
WCHS	ak	500	C (1)	Charleston, W. Va.	
WDBO	ak	1000	C	Orlando, Fla.	—7:00 am—midnight
WIBW	ak	1000	2C (5)	Topeka, Kans.	—6:00 am—.....
WILL	ak	1000	D	Urbana, Ill.	—9:00 am—ss
WTAG	ak	1000	R	Worcester, Mass.	—7:30 am—1:00 am
XEMZ	z	.....	.....	Piedras Negras, Coah.	

590 keys. (508.2)

KHO	ak	1000	R (5)	Spokane, Wash.	
WEEI	ak	1000	C (5)	Boston, Mass.	—6:45 am—.....
WKZO	ak	1000	BDX	Kalamazoo, Mich.	
WOW	ak	1000	R (5)	Omaha, Nebr.	—7:00 am—3:30 am

600 keys. (499.7)

CBW	ak	500	F (1)	Windsor, Ont.	—4:30 pm—11:30 pm
CFCF	ak	500	BF	Montreal, P. O.	
CJOR	ak	500	.....	Vancouver, B. C.	—7:45 am—1:00 am
CMQ	ak	25000	.....	Havana, Cuba	
KFSD	ak	1000	B	San Diego, Calif.	
WCAO	ak	500	C (1)	Baltimore, Md.	
WICC	ak	500	BM (1)	Bridgeport, Conn.	—6:00 am—1:00 am
WMT	ak	1000	BM (5)	Cedar Rapids, Iowa	—6:30 am—1:00 am
WREC	ak	1000	C (5)	Memphis, Tenn.	—7:30 am—1:00 am

610 keys. (491.5)

KFRC	c	1000	M (5)	San Francisco, Cal.	
WCLE	ak	500	DM	Cleveland, Ohio.	—6:45 am—ss
WDAF	ak	1000	R (5)	Kansas City, Mo.	—7:30 am—1:00 am
WIOD	ak	1000	N(WMBF)	Miami, Fla.	
WIP	ak	1000	.....	Philadelphia, Pa.	—7:00 am—1:00 am

620 keys. (483.6)

KGW	ak	1000	R (5)	Portland, Ore.	—9:00 am—2:00 am
KTAR	ak	1000	N	Phoenix, Ariz.	—9:00 am—1:15 am
TIPG	z	2000	625	San Jose, Costa Rica	
WFLA	ak	1000	Na (5)	Clearwater, Fla.	—7:00 am—1:00 am
WHJB	ak	250	CD	Greensburg, Pa.	—8:00 am—5:00 pm
WLBZ	ak	500	CM (1)	Bangor, Maine	
WTSJ	ak	1000	Na (5)	St. Petersburg, Fla.	—7:00 am—1:00 am
WTMJ	ak	1000	N (5)	Milwaukee, Wis.	—7:15 am—1:00 am

630 keys. (475.9)

CFCO	ak	100	F	Chatham, Ont.	—8:00 am—10:30 pm
CFCY	ak	1000	F	Charlottetown, P.E.I.	—9:00 am—11:00 pm
CJRC	ak	500	F (1)	Winnipeg, Man.	—8:30 am—2:00 am
CKOV	ak	100	F	Kelowna, B. C.	—11:00 am—1:30 am
CMCD	ak	250	.....	Havana, Cuba	—10:00 am—11:30 pm
KFRU	ak	500	i (1)	Columbia, Mo.	—7:00 am—9:30 pm
KGFX	ak	200	D	Pierre, S. Dak.	
WGFB	ak	500	N1 (1)	Evansville, Ind.	
WMAL	ak	250	B (5)	Washington, D. C.	—6:30 am—2:00 am
WPRO	ak	500	C (1)	Providence, R. I.	—7:00 am—1:00 am
XEZ	z	500	.....	Merida, Yuc.	
.....	z	10000	P	Havana, Cuba	

640 keys. (468.5)

KFI	ak	50000	R	Los Angeles, Calif.	—9:45 am—3:00 am
WGAN	z	500	DP	Portland, Maine	
WHKC	ak	500	.....	Columbus, Ohio	—6:30 am—8:15 pm
WOI	ak	5000	D	Ames, Iowa	
XEBX	z	250	.....	Sabinas, Coah.	
YSS	ak	...	.....	San Salvador, E. S.	

650 keys. (461.3)

TIX	z	.....	.....	San Jose, C. R.	
WSM	ak	50000	MN	Nashville, Tenn.	—7:30 am—1:00 am

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

660 kcys. (454.3)

WAAW	ak 500	D	Omaha, Nebr.	-7:00 am-ss
WEAF	ak 50000	R	New York, N. Y.	-7:30 am-1:00 am
XEAL	z 1000	....	Mexico City, D. F.	
XEAO	ak 250	....	Mexicali, B. Cfa.	

670 kcys. (447.5)

WMAQ	ak 50000	R	Chicago, Ill.	-7:00 am-1:00 am
XELO	ak 50000	....	Tijuana, B. Cfa.	
XERO	z	....	Chapultepec, D. F.	-2:00 am-2:30 am

680 kcys. (440.9)

CMBQ	z 5000	P	Havana, Cuba	-7:00 am-midnight
CMCG	ak 1000	....	Havana, Cuba	-7:00 am-ss
KFEQ	ak 2500	D	St. Joseph, Mo.	-11:00 am-3:00 am
KPO	ak 50000	R	San Francisco, Cal.	
VAS	akn 2000	685	Glace Bay, N. S.	
VOWR	ck 500	681	St. John's, Nfld.	
WLAW	z 1000	D	Lawrence, Mass.	
WPTF	ak 1000	N (5)	Raleigh, N. C.	-6:30 am-11:00 pm

690 kcys. (434.5)

CFRB	ak 10000	C	Toronto, Ont.	-8:00 am-midnight
CJ CJ	ak 100	F	Calgary, Alta.	-9:30 am-1:00 am
XET	ak 5000	Monterrey, N. L.	-8:30 am-10:00 pm

700 kcys. (428.3)

WLW	ak 500000	MN (W8XO)	Cincinnati, O.	-5:45 am-1:30 am
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710 kcys. (422.3)

KIRO	ak 1000	C	Seattle, Wash.	-9:00 am-5:00 am
KMPC	ak 500	Beverly Hills, Calif.	-9:00 am-4:00 am
WOR	ak 50000	M	Newark, N. J.	

720 kcys. (416.4)

CMK	ak 3000	....	Havana, Cuba	
WGN	ak 50000	M	Chicago, Ill.	
XEH	ak 250	....	Monterrey, N. L.	-10:00 am-9:00 pm

730 kcys. (410.7)

CFPL	ak 100	F	London, Ont.	-9:00 am-3:00 am
CJCA	ak 1000	F	Edmonton, Alta.	-9:00 am-2:00 am
CKAC	ak 5000	C	Montreal, P. Q.	-7:30 am-1:00 am
CKPR	ak 100	F	Fort William, Ont.	-9:00 am-11:00 pm
CMCL	z 10000	P	Havana, Cuba	
XEPN	ak 100000	....	Piedras Negras, Coah.	-5:45 am-....
XERB	z 100000	....	Rosarito Bch., B. Cfa.	

740 kcys. (405.2)

KMMJ	ak 1000	D	Clay Center, Nebr.	-6:00 am-....
KTRB	ak 250	D	Modesto, Calif.	-9:00 am-8:30 pm
WHEB	ak 250	D	Portsmouth, N. H.	
WSB	ak 50000	R	Atlanta, Ga.	-6:55 am-1:00 am

750 kcys. (399.8)

CMBL	z 2500	....	Havana, Cuba	-8:00 am-12:15 am
KGU	aj 2500	N	Honolulu, Hawaii	-11:30 am-4:30 am
WJR	ak 50000	C	Detroit, Mich.	-5:45 am-2:00 am
XEAA	ak 200	Mexicali, B. Cfa.	
XEAM	z 25	Matamoros, Tams.	

760 kcys. (394.5)

CMHX	ak 200	Cienfuegos, Cuba	
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NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KXA	ak	250	(5)	Seattle, Wash.	—6:00 pm
WBAL	ak	2500	BMSy	Baltimore, Md.	—9:00 pm—1:00 am
WEW	ak	1000	D	St. Louis, Mo.	—8:00 am—ss
WJZ	ak	50000	BSy	New York, N. Y.	—7:30 am—1:00 am
XEOK	ak	2500	.....	Tijuana, B. Cfa.	—All night station

770 keys. (389.4)

CMBF	z	10000	.....	Havana, Cuba	
KFAB	ak	10000	CSy	Lincoln, Nebr.	—7:00 am—1:00 am
WBBM	ak	50000	CSy	Chicago, Ill.	

780 keys. (384.4)

CHWK	dk	100	F	Chilliwack, B. C.	—11:00 am—1:15 am
CKSO	ak	1000	F	Sudbury, Ont.	—9:00 am—midnight
CMJK	ak	250	.....	Camaguey, Cuba	—11:00 am—10:00 pm
KEHE	ak	1000	(5)	Los Angeles, Calif.	
KFDY	ak	1000	D	Brookings, S. Dak.	—1:30 pm—3 pm
KFOD	ck	250	.....	Anchorage, Alaska	—11:00 pm—5:00 am
KGHL	ak	1000	N (5)	Billings, Mont.	—10:00 am—1:00 am
KWLK	z	250	DP	Longview, Wash.	
WEAN	ak	1000	BM (5)	Providence, R. I.	—6:00 am—.....
WMC	ak	1000	R (5)	Memphis, Tenn.	—7:45 am—1:00 am
WTAR	ak	1000	N	Norfolk, Va.	
XEN	z	1000	.....	Mexico City, D. F.	

790 keys. (379.5)

CMGH	ak	500	.....	Matanzas, Cuba	—10:00 am—3:00 am
KGO	ak	7500	B	San Francisco, Cal.	—7:00 am—1:00 am
KOAM	z	1000	DN	Pittsburg, Kans.	
WGY	ak	50000	R	Schenectady, N. Y.	—7:00 am—1:00 am

800 keys. (374.8)

HIX	ak	800	.....	Trujillo, D. R.	
WBAP	ak	50000	Na	Fort Worth, Texas	—6:45 am—midnight
WFAA	ak	50000	Na	Dallas, Texas	—9:00 am—12:30 am
WTBO	ak	250	D	Cumberland, Md.	—8:30 am—ss

810 keys. (370.2)

CMCF	ak	600	X	Havana, Cuba	
WCCO	ak	50000	C	Minneapolis, Minn.	—7:30 am—1:00 am
WNYC	ak	1000	D	New York, N. Y.	—7:00 am—7:00 pm
XEDF	z	100	.....	Nuevo Laredo, Tams.	—11:00 am—8:15 pm
XEXC	z	350	.....	Aguascalientes, Ags.	

820 keys. (365.6)

CMHW	ak	100	.....	Santa Clara, Cuba	
WHAS	ak	50000	C	Louisville, Ky.	—6:45 am—.....
XEBG	z	1000	.....	Tijuana, B. Cfa.	

830 keys. (361.2)

CMJX	ak	500	.....	Camaguey, Cuba	—9:00 am—11:30 pm
KOA	ak	50000	R	Denver, Colo.	—9:00 am—2:00 am
WEEU	ak	1000	D	Reading, Pa.	—8:00 am—5:00 pm
WHDH	ak	1000	Dn	Boston, Mass.	
WRUF	ak	5000	Dn	Gainesville, Fla.	—7:00 am—6:30 pm

840 keys. (356.9)

CBL	ak	50000	F	Toronto, Ont.	
CFQC	ak	1000	F	Saskatoon, Sask.	
VOGY	ak	400	.....	St. John's, Nfld.	
XERA	ck	350000	.....	Villa Acuna, Coah.	—All night station

850 keys. (352.7)

CMCM	ak	.....	.....	Havana, Cuba	—8:00 am—midnight
KIEV	ak	250	D	Glendale, Calif.	
WESG	ak	1000	CD	Elmira, N. Y.	—7:30 am—6:00 pm

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WKAR	ak 1000	D	E. Lansing, Mich.	—7:00 am—5:00 pm
WWL	ak 10000	CX	New Orleans, La.	—6:30 am—1:00 am

860 kcys. (348.6)

WABC	ak 50000	C (WBOQ)	New York, N. Y.	—7:30 am—1:00 am
WHB	ak 1000	DM	Kansas City, Mo.	
XEMO	ak 5000	.....	Tijuana, B. Cfa.	—9:45 am—3:00 am
XENC	z 50	.....	Mexico City, D. F.	

870 kcys. (344.6)

WENR	ak 50000	Ba	Chicago, Ill.	—Noon—midnight
WLS	ak 50000	Ba	Chicago, Ill.	—6:30 am—3:00 pm
XEFB	ak 200	.....	Monterrey, N. L.	
XEJW	z .....	.....	Mexico City, D. F.	

880 kcys. (340.7)

CBO	ak 1000	F	Ottawa, Ont.	—10:30 am—midnight
CFJC	ak 1000	F	Kamloops, B. C.	—12:30 pm—1:15 am
CMW	ak 1400	X	Havana, Cuba	—7:00 am—midnight
KFKA	ak 500	2M (1)	Greeley, Colo.	—7:30 am—1:00 am
KLX	ak 1000	.....	Oakland, Calif.	—10:30 am—2:30 am
KPOF	ak 500	2	Denver, Colo.	
TIEP	ak 1000	.....	San Jose, Costa Rica	
WCOC	ak 500	CX (1)	Meridian, Miss.	
WGBI	ak 500	CI (1)	Scranton, Pa.	—12:30 pm—10:30 pm
WQAN	ak 500	1 (1)	Scranton, Pa.	—12:30 pm—10:00 pm
WRNL	ak 500	D	Richmond, Va.	—7:30 am—ss
WSUI	ak 500	(1)	Iowa City, Iowa	—10:00 am—11:00 pm

890 kcys. (336.9)

KARK	ak 500	N (1)	Little Rock, Ark.	—7:00 am—1:00 am
KPNF	ak 500	2 (1)	Shenandoah, Iowa	—6:30 am—1:00 am
KFPY	ak 1000	C (5)	Spokane, Wash.	—9:50 am—3:00 am
KUSD	ak 500	2	Vermillion, S. Dak.	
WBAA	ak 500	(1)	W. Lafayette, Ind.	—Noon—6:00 pm
WGST	ak 1000	C (5)	Atlanta, Ga.	
WJAR	ak 1000	R (5)	Providence, R. I.	—7:30 am—1:00 am
WMMN	ak 500	C (1)	Fairmont, W. Va.	—7:00 am—1:00 am
XEW	ak 50000	.....	Mexico City, D. F.	

900 kcys. (333.1)

KGBU	ak 500	X	Ketchikan, Alaska	—.....—4:00 am
KIHJ	ak 1000	M (5)	Los Angeles, Calif.	—9:30 am—1:00 am
KSEI	ak 250	(1)	Pocatello, Idaho	—7:00 am—1:00 am
WBEN	ak 1000	R (5)	Buffalo, N. Y.	—6:00 am—ss
WELI	ak 500	D	New Haven, Conn.	—6:30 am—ss
WFMD	ak 500	D	Frederick, Md.	—6:45 am—1:00 am
WJAX	ak 1000	N (5)	Jacksonville, Fla.	—7:45 am—1:00 am
WKY	ak 1000	N (5)	Oklahoma City, Ok.	—9:00 am—2:00 pm
WLBL	ak 5000	D	Stevens Point, Wis.	—8:00 am—5:45 pm
WTAD	ak 1000	D	Quincy, Ill.	

910 kcys. (329.6)

CBF	z 50000	FN	Montreal, P. Q.	—.....—1:00 am
CKY	ak 15000	F	Winnipeg, Man.	—8:30 am—1:00 am
CJAT	ak 1000	F	Trail, B. C.	—10:00 am—2:00 am
XENT	ak 150000	.....	Nuevo Laredo, Tams.	

920 kcys. (325.9)

CMX	ak 1000	X	Havana, Cuba	—8:00 am—1:00 am
KFEL	ak 500	Ma	Denver, Colo.	—8:00 am—2:30 am
KOMO	ak 1000	R (5)	Seattle, Wash.	
KPRC	ak 1000	R (5)	Houston, Texas	
KVOD	ak 500	Ba	Denver, Colo.	
WAAF	ak 1000	D	Chicago, Ill.	—6:00 am—ss
WORL	ak 500	D	Boston, Mass.	
WPEN	ak 1000	D	Philadelphia, Pa.	

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WSPA	ak	1000	D	Spartanburg, S. C.	—6:00 am—12:30 am
WWJ	ak	5000	R	Detroit, Mich.	—6:00 am—....

930 kcys. (322.4)

CFAC	ak	1000	F	Calgary, Alta.	—9:00 am—2:00 am
CFCH	ak	100	F	North Bay, Ont.	
CFLC	ak	100	....	Prescott, Ont.	—7:00 am—10:00 pm
CHNS	ak	1000	F	Halifax, N. S.	—7:30 am—11:00 pm
CKPC	ak	100	F	Brantford, Ont.	
KMA	ak	1000	(5)	Shenandoah, Iowa	—6:00 am—....
KROW	ak	1000	....	Oakland, Calif.	—9:00 am—5:00 am
WBRC	ak	1000	R	Birmingham, Ala.	—8:00 am—12:30 am
WDBJ	ak	1000	C (5)	Roanoke, Va.	—7:00 am—midnight
XEBH	ak	500	....	Hermosillo, Son.	—1:00 pm—midnight

940 kcys. (319.0)

KOIN	ak	1000	C (5)	Portland, Ore.	
VOAS	ak	100	....	St. John's, Nfld.	
WAAT	ak	500	D	Jersey City, N. J.	—6:30 am—6:00 pm
WAVE	ak	1000	N	Louisville, Ky.	—8:00—1:00 am
WCSH	ak	1000	R (2.5)	Portland, Maine	—8:00 am—midnight
WDAY	ak	1000	N (5)	Fargo, N. Dak.	—6:00 am—1:00 am
WHA	ak	5000	D	Madison, Wis.	—9:00 am—5:30 pm
WICA	ak	250	D	Ashtabula, Ohio	
XEFO	ak	5000	....	Mexico City, D. F.	
XEYO	z	500	....	Mexico City, D. F.	

950 kcys. (315.6)

CJOC	ak	100	F	Lethbridge, Alta.	—9:00 am—1:00 am
CMBC	z	10000	....	Havana, Cuba	—6:55 am—midnight
CRCK	ak	1000	F	Quebec, P. Q.	
KFWB	ak	1000	(5)	Hollywood, Calif.	—9:30 am—4:00 am
KMBC	ak	1000	C (5)	Kansas City, Mo.	—6:55 am—1:00 am
WHAL	z	500	DP	Saginaw, Mich.	
WRC	ak	500	RX (1)	Washington, D. C.	—6:00 am—....

960 kcys. (312.3)

CFRN	ak	100	F	Edmonton, Alta.	—9:30 am—2:00 am
CHNC	ak	1000	F	New Carlisle, P. O.	—7:30 am—11:00 pm
CMKS	z	....	....	Guantanamo, Cuba	
CRCY	ck	100	F	Toronto, Ont.	
XEAW	c	50000	....	Reynosa, Tams.	—5:45 am—....

970 kcys. (309.1)

CMBY	z	150	....	Havana, Cuba	—8:55 am—11:00 pm
KJR	ak	5000	B	Seattle, Wash.	
WCFL	ak	5000	N	Chicago, Ill.	
WIBG	ak	100	D	Glenside, Pa.	

980 kcys. (306.0)

KDKA	bk	50000	B	Pittsburgh, Pa.	
XEAC	ak	5000	....	Tijuana, B. Cfa.	
XEFE	z	150	....	Nuevo Laredo, Tams.	

990 kcys. (302.8)

WBZ	ak	50000	BSy	Boston, Mass.	—6:00 am—1:00 am
WBZA	ak	1000	BSy	Springfield, Mass.	—6:00 am—1:00 am
XEAF	ak	750	....	Nogales, Son.	
XEK	ak	100	....	Mexico City, D. F.	
XES	ak	250	....	Tampico, Tams.	

1000 kcys. (299.8)

CMBZ	ak	500	(1) X	Havana, Cuba	—7:45 am—midnight
KFVB	ak	1000	Dn	Los Angeles, Calif.	—9:00 am—8:15 pm
VOCM	z	200	1006	St. John's, Nfld.	

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WHO	ak 50000	R	Des Moines, Iowa	—8:00 am—2:00 am
XEBI	ak 25	....	Aguascalientes, Ags.	
XEBK	ak 60	....	Nuevo Laredo, Tams.	—10:00 am—8:30 pm
XEXS	z 100	....	Portable in Mexico	

1010 kcys. (296.9)

CHML	ak 100	F	Hamilton, Ont.	—8:00 am—midnight
CKDC	ak 100	I	Vancouver, B. C.	
CKCK	ak 1000	F	Regina, Sask.	—9:30 am—2:00 am
CKCO	ak 100	F	Ottawa, Ont.	—Noon—11:30 pm
CKIC	ak 50	....	Wolfville, N. S.	
CKWX	ak 100	I	Vancouver, B. C.	—Noon—4:00 am
CMJA	ak 300	....	Camaguey, Cuba	
KGGF	ak 1000	2M	Coffeyville, Kans.	
KQW	ak 1000	M	San Jose, Calif.	—9:30 am—3:00 am
WHN	ak 1000	(5)	New York, N. Y.	
WNAD	ak 1000	2	Norman, Okla.	—3:00 pm—10:15 pm
WNOX	ak 1000	C (5)	Knoxville, Tenn.	—6:30 am—2:00 am
XEU	ak 250	....	Veracruz, Ver.	—8:00 am—1:00 am

1020 kcys. (293.9)

KYW	ak 10000	R	Philadelphia, Pa.	—7:05 am—10:00 pm
WDZ	ak 250	D	Tuscola, Ill.	—7:00 am—6:00 pm
XEJ	ak 1000	....	Juarez, Chih.	

1030 kcys. (291.1)

CFCN	ak 10000	F	Calgary, Alta.	—9:00 am—1:30 am
CJBR	z 1000	F	Rimouski, P. Q.	
CKLW	ak 5000	M	Windsor, Ont.	—6:00 am—4:00 am
CMCK	z ....	....	Havana, Cuba	
XEB	ak 10000	....	Mexico City, D. F.	—10:00 am—12:15 am

1040 kcys. (288.3)

KRLD	ak 10000	C	Dallas, Texas	—7:00 am—1:00 am
KWJ	ak 500	....	Portland, Ore.	—All night station
KYOS	bk 250	D	Merced, Calif.	
WTIC	ah 50000	R	Hartford, Conn.	—6:00 am—....

1050 kcys. (285.5)

CBM	ak 5000	F	Montreal, P. Q.	
CMKD	ak 250	....	Santiago, Cuba	—7:00 am—7:45 pm
KFBI	ak 5000	Dn	Abilene, Kans.	—9:30 am—3:15 am
KNX	ak 50000	C	Los Angeles, Calif.	
WEAU	z 1000	D	Eau Claire, Wis.	
WGVA	z 1000	DP	Indianapolis, Ind.	

1060 kcys. (282.8)

KTHS	ak 10000	N	Hot Springs, Ark.	—9:00 am—ss
VOAC	z 40	1065	St. John's, Nfld.	
WBAL	ak 10000	BM	Baltimore, Md.	—6:00 am—9:00 pm
WJAG	ak 1000	D	Norfolk, Nebr.	—7:30 am—ss
W3XJ	z 100	P	College Park, Md.	—Midnight to 6:00 am
XEAD	ak 125	....	Guadalajara, Jal.	
XEMG	z 100	....	Atzacotalco, D. F.	

1070 kcys. (280.2)

CMBX	ak 500	....	Havana, Cuba	
CMHA	z 50	....	Sagua la Grande, Cuba	
KJBS	ak 500	....	San Francisco, Calif.	—All night station
WCAZ	ak 100	D	Carthage, Ill.	
WTAM	ak 50000	R	Cleveland, Ohio	—6:00 am—midnight

1080 kcys. (277.6)

WBT	ak 50000	C	Charlotte, N. C.	—6:30 am—midnight
WCBD	ak 5000	Dnl	Chicago, Ill.	
WBMI	ak 5000	Dnl	Chicago, Ill.	
XEBA	z 20	....	Guzman, Jal.	
XEDP	ak 500	....	Mexico City, D. F.	

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1090 keys. (275.1)

KMOX ak 5000 C St. Louis, Mo. — 6:30 am—1:00 am

1100 keys. (272.6)

CBR ak 5000 F Vancouver, B. C.
KGDM ak 1000 DM Stockton, Calif. — 9:00 am—ss
KWKH ak 10000 C Shreveport, La. — 7:30 am—1:00 am
WBIL ak 5000 1 New York, N. Y.
WPG ak 5000 C1 Atlantic City, N. J.
XECL z 1700 Mexicali, B. Cfa.
XEL z 1000 Mexico City, D. F.

1110 keys. (270.1)

CMCJ ak 500 X Havana, Cuba
KSOO ak 2500 DnN Sioux Falls, S. Dak. — 7:00 am—6:45 pm
WRVA ak 5000 CM Richmond, Va. — 7:00 am—midnight

1120 keys. (267.7)

CHLP ak 100 F Montreal, P. Q. — 9:00 am—11:00 pm
CHSJ ak 500 F (1) St. John, N. B. — 5:00 am—midnight
CKOC ak 500 F (1) Hamilton, Ont.
CKX ak 1000 F Brandon, Man.
CMGF ak 250 Matanzas, Cuba.
CMKM ak 200 Manzanillo, Cuba — 8:00 am—10:00 pm
CRCS ak 100 F Chicoutimi, P. Q.
KFIO ak 100 D Spokane, Wash.
KFSG ak 500 a (2.5) Los Angeles, Calif.
KRKD ak 500 a (2.5) Los Angeles, Calif. — 9:00 am—3:00 am
KRSC ak 250 Seattle, Wash. — All night station
KTBC z 1000 DP Austin, Texas
WCOP ak 500 D Boston, Mass. — 8:00 am—4:00 pm
WDPL ak 250 R (.5) Wilmington, Del. — 9:00 am—11:00 pm
WISN ak 250 C (1) Milwaukee, Wis. — 8:00 am—1:00 am
WJBO ak 500 B Baton Rouge, La. — 7:45 pm—1:00 am
WTAW ak 500 College Sta., Tex.
XEJP z 100 Mexico City, D. F.

1130 keys. (265.3)

CMJI ak 150 Ciego de Avila, Cuba — Noon—10:00 pm
KSL ak 50000 C Salt Lake City, Ut. — 8:30 am—3:00 am
WJJD ak 20000 Dn Chicago, Ill. — 6:45 am—6:45 pm
WVOV ak 1000 D New York, N. Y.

1140 keys. (263.0)

CMCW dk 500 Havana, Cuba
KVOO ak 25000 N1 Tulsa, Okla. — 6:55 am—....
WAPI ak 5000 C1 Birmingham, Ala.
WSPR ak 500 DM Springfield, Mass. — 7:00 am—5:45 pm

1150 keys. (260.7)

CMJF z 200 Camaguey, Cuba
WHAM ak 50000 B Rochester, N. Y. — 6:30 am—midnight
XEC ak 100 Tijuana, B. Cfa.
XEDW z 20 Minatitlan, Ver.

1160 keys. (258.5)

CMHJ ak 175 Cienfuegos, Cuba
CMKG z Santiago, Cuba
WOWO ak 10000 B1 Fort Wayne, Ind. — 6:00 am—....
WVVA ak 5000 C1 Wheeling, W. Va.
XEAS ak 50 Saltillo, Coah.
XEBJ z 20 Merida, Yuc.
XEBZ ad 100 Mexico City, D. F.
XED ak 2500 Guadalajara, Jal. — Noon—midnight
XEP ak 500 Juarez, Chih. — 9:00 am—2:00 am

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1170 kcys. (256.3)

CMBS	ak	150	X	Havana, Cuba	—8:00 am—midnight
WCAU	ak	50000	C	Philadelphia, Pa.	—6:00 am—1:00 am

1180 kcys. (254.1)

CMJO	ak	50	....	Ciego de Avila, Cuba	
KEX	ak	5000	B2	Portland, Ore.	
KOB	ak	10000	N2	Albuquerque, N. M.	—1:00 pm—11:00 pm
WDGY	ak	1000	CDn(5)	Minneapolis, Minn.	
WINS	ak	1000	....	New York, N. Y.	
WMAZ	ak	1000	C	Macon, Ga.	—6:45 pm—7:00 pm
XEFA	z	500	....	Tacuba, D. F.	

1190 kcys. (252.0)

CMKX	z	....	....	Santiago, Cuba	
KTKC	ak	250	D	Visalia, Calif.	
VONF	ak	500	1195	St. John's, Nfld.	
WATR	ak	100	DXZ	Waterbury, Conn.	
WOAI	ak	50000	N	San Antonio, Tex.	—7:30 am—12:30 am
WSAZ	ak	1000	....	Huntington, W. Va.	—6:00 am—7:00 pm

1200 kcys. (249.9)

CGFP	z	100	....	Grande Prairie, Alta.	
CHAB	ak	100	F	Moose Jaw, Sask.	—9:00 am—12:30 am
CKNX	dk	100	....	Wingham, Ont.	—11:00 am—1:00 am
CKTB	ak	100	F	St. Catharines, Ont.	—9:30 am—11:30 pm
CMCO	ad	250	....	Havana, Cuba	
KADA	ak	100	DM	Ada, Okla.	
KBTM	ak	100	D	Jonesboro, Ark.	
KDNC	z	100	(.25) P	Lewistown, Mont.	
KELO	z	100	N	Sioux Falls, S. Dak.	
KFJB	ak	100	(.25)	Marshalltown, Ia.	—7:00 am—10:00 pm
KFXD	ak	100	(.25)	Nampa, Idaho	—8:00 am—10:00 pm
KFJX	ak	100	(.25)	Grand Junc., Colo.	
KGCI	z	100	DP	Coeur d'Alene, Idaho	
KGDE	c	100	(.25)	Fergus Falls, Minn.	—8:00 am—10:00 pm
KGEC	ak	100	....	Sterling, Colo.	
KGFJ	ak	100	....	Los Angeles, Calif.	—24 hours daily
KGHI	ak	100	(.25)	Little Rock, Ark.	—8:30 am—11:00 pm
KGVL	z	100	DP	Greenville, Texas	
KMLB	ak	100	(.25)	Monroe, La.	
KOOS	ak	100	(.25)	Marshfield, Ore.	—10:00 am—7:45 pm
KSUN	ak	100	(.25)	Lowell, Ariz.	—11:00 am—midnight
KVCV	ak	100	....	Redding, Calif.	
KVEC	z	250	D	San Luis Obispo, Calif.	
KVOS	dk	100	M	Bellingham, Wash.	
KWG	ak	100	N	Stockton, Calif.	—10:00 am—3:00 am
KWNO	z	250	D	Winona, Minn.	
WABI	ak	100	(.25)	Bangor, Maine	
WAIM	ak	100	C	Anderson, S. C.	—6:00 am—10:00 pm
WAYX	ak	100	(.25)	Waycross, Ga.	
WBBZ	ak	100	M (.25)	Ponca City, Okla.	—8:00 am—10:00 pm
WBHP	ak	100	....	Huntsville, Ala.	
WBNO	ak	100	2	New Orleans, La.	—1:00 pm to midnight
WCAT	ak	100	D	Rapid City, S. Dak.	—Noon—2:00 pm
WCAX	ak	100	(.25)	Burlington, Vt.	
WCLO	ak	100	(.25)	Janesville, Wis.	
WCPO	ak	100	(.25)	Cincinnati, Ohio	—7:00 am—11:30 pm
WDSM	z	100	P	Superior, Wis.	
WEST	ak	100	3 (.25)	Easton, Pa.	
WFAM	ak	100	4	South Bend, Ind.	
WFTC	ak	100	(.25)	Kinston, N. C.	
WHBC	ak	100	(.25)	Canton, Ohio	
WHBY	ak	100	(.25)	Green Bay, Wis.	
WIBX	ak	100	C (.25)	Utica, N. Y.	—5:30 am—1:00 am
WIL	ak	100	(.25)	St. Louis, Mo.	
WJBC	ak	100	5 (.25)	Bloomington, Ill.	—4:00 pm—8:30 pm
WJBL	ak	100	5	Decatur, Ill.	
WJBW	ak	100	2	New Orleans, La.	—All night station
WJNO	ak	100	C (.25)	W. Palm Beach, Fla.	—7:00 am—11:00 pm
WJRD	ak	250	D	Tuscaloosa, Ala.	
WKBO	ak	100	3 (.25)	Harrisburg, Pa.	—8:00 am—11:00 pm
WLVA	ak	100	(.25)	Lynchburg, Va.	—7:00 am—11:00 pm
WMFR	ak	100	D	High Point, N. C.	
WMPC	ak	100	(.25)	Lapeer, Mich.	

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WOLS	z	100	D	Florence, S. C.	
WRBL	ak	100	(.25)	Columbus, Ga.	-8:00 am-10:30 pm
WSAL	z	250	D	Salisbury, Md.	
WTHT	ak	100	M	Hartford, Conn.	-7:00 am-4:15 pm
WTOL	z	100	DP	Toledo, Ohio	
WWAE	ak	100	8	Hammond, Ind.	

1210 kcys. (247.8)

CHLT	z	100	....	Sherbrooke, P. Q.	
CJCS	ak	50	....	Stratford, Ont.	-8:00 am-9:00 pm
CJCU	z	50	....	Aklavik, N.W.T.	
CKBI	ak	100	F	Prince Albert, Sask.	-9:45 am-1:00 am
CKCH	ak	100	F	Hull, P. Q.	-8:00 am-11:00 pm
CKMC	ak	50	....	Cobalt, Ont.	
CMHI	ak	150	....	Santa Clara, Cuba	
KALB	ak	100	....	Alexandria, La.	-7:00 am-ss
KANS	ak	100	N	Wichita, Kans.	-7:30 am-midnight
KASA	c	100	M	Elk City, Okla.	-7:00 am-8:00 pm
KDLR	ak	100	....	Devils Lake, N. D.	-7:30 am-9:30 pm
KDON	z	100	M	Monterey, Calif.	
KFJI	ak	100	....	Klamath Falls, Ore.	
KFOR	ak	100	CM(.25)	Lincoln, Nebr.	-8:00 am-11:15 pm
KFPW	ak	100	....	Fort Smith, Ark.	
KFVS	ak	100	5 (.25)	Cape Girardeau, Mo.	
KFXM	ak	100	M2	San Bernardino, Cal.	-9:00 am-3:00 am
KGLO	z	100	C (.25)	Mason City, Iowa	
KGy	ak	100	M	Olympia, Wash.	
KHBC	z	100	D	Okmulgee, Okla.	
KIUL	ak	100	....	Garden City, Kans.	-8:00 am-10:00 pm
KLAH	ak	100	....	Carlsbad, N. Mex.	
KOCA	ak	100	(.25)	Kilgore, Texas	
KPFA	z	100	(.25)	Helena, Mont.	
KPPC	ak	100	2	Pasadena, Calif.	-10:00 am-12:30 am
KROY	ak	100	CD	Sacramento, Calif.	
KVSO	ak	100	M	Ardmore, Okla.	-8:00 am-11:00 pm
KWTN	ak	100	....	Watertown, S. Dak.	
WALR	ak	100	....	Zanesville, Ohio	-7:00 am-9:00 pm
WBAX	ak	100	....	Wilkes-Barre, Pa.	
WBBL	ak	100	S	Richmond, Va.	
WBLy	ak	100	D	Lima, Ohio	-6:00 am-5:15 pm
WBRB	ak	100	3	Red Bank, N. J.	
WCOL	ak	100	N	Columbus, Ohio	-7:00 am-11:00 pm
WCRW	ak	100	4	Chicago, Ill.	-11:00 am-7:00 pm
WEBQ	ak	100	5 (.25)	Harrisburg, Ill.	
WEDC	ak	100	4	Chicago, Ill.	
WFAS	ak	100	3	White Plains, N. Y.	
WFOY	ak	100	(.25)	St. Augustine, Fla.	
WGBB	ak	100	3	Freeport, N. Y.	
WGCM	ak	100	(.25)	Gulfport, Miss.	
WGNy	ak	100	3	Newburgh, N. Y.	-7:30 am-midnight
WGRM	ak	100	....	Grenada, Miss.	
WHAI	z	250	DP	Greenfield, Mass.	
WHBF	ak	100	(.25)	Rock Island, Ill.	-7:00 am-1:05 am
WHBU	ak	100	(.25)	Anderson, Ind.	
WIBU	ak	100	(.25)	Poynette, Wis.	
WJBY	ak	100	(.25)	Gadsden, Ala.	-8:00 am-10:30 pm
WJEJ	ak	50	Dn(.1)	Hagerstown, Md.	
WJIM	z	100	(.25)	Lansing, Mich.	-7:15 am-12:30 am
WJTN	ak	100	B (.25)	Jamestown, N. Y.	
WJW	ak	100	(.25)	Akron, Ohio	-8:00 am-10:30 pm
WKOK	ak	100	....	Sunbury, Pa.	-6:00 am-midnight
WLMU	z	100	P (.25)	Middlesboro, Ky.	
WMEG	ak	100	(.25)	Hibbing, Minn.	-7:30 am-10:00 pm
WOMT	ak	100	....	Manitowoc, Wis.	
WPAX	ak	100	D	Manitowoc, Wis.	-8:00 am-6:00 pm
WSAY	z	100	D	Thomasville, Ga.	-7:00 am-4:30 pm
WSBC	ak	100	4 (.25)	Rochester, N. Y.	-6:00 am-midnight
WSIX	ak	100	(.25)	Chicago, Ill.	-7:00 am-1:00 am
WSNJ	z	100	D	Nashville, Tenn.	
WSOC	ak	100	N (.25)	Bridgeton, N. J.	-7:00 am-midnight
WTAX	ak	100	....	Charlotte, N. C.	
XEAT	ak	250	....	Springfield, Ill.	-11:00 am-9:00 pm
XEE	ak	50	....	Parral, Chih.	
XEFV	ak	100	....	Durango, Dgo.	
XETH	ak	100	....	Juarez, Chih.	
				Puebla, Pue.	

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1220 keys. (245.8)

CMJE	z	50	....	Camaguey, Cuba	
KFKU	ak	1000	a (5)	Lawrence, Kans.	-3:30 pm-7:30 pm
KTMS	z	500	B	Santa Barbara, Cal.	
KTW	ak	1000	S2	Seattle, Wash.	
KWSC	ak	1000	2 (5)	Pullman, Wash.	-9:45 am-12:30 am
WCAD	ak	500	D	Canton, N. Y.	-12:30 pm-4:00 pm
WCAE	ak	1000	MR (5)	Pittsburgh, Pa.	-7:00 am-2:30 am
WDAE	ak	1000	C (5)	Tampa, Fla.	-7:30 am-?
WREN	ak	1000	Ba(5)	Lawrence, Kans.	-8:00 am-7:00 pm
XEBL	z	50	....	Mazatlan, Sin.	
XEDA	z	200	....	Gra. Anaya, D. F.	
XEG	z	250	....	Monterrey, N. L.	
XETF	ak	30	....	Veracruz, Ver.	-11:00 am-1:00 am

1230 keys. (243.8)

CMCB	z	150	....	Havana, Cuba	-8:00 am-11:00 pm
KGBX	ak	500	N ..	Springfield, Mo.	
KGGM	ak	1000	....	Albuquerque, N. M.	-9:30 am-11:30 pm
KYA	ak	1000	(5)	San Francisco, Cal.	
TGW	ak	1000	....	Guatemala City, Gt.	
WFBM	ak	1000	C (5)	Indianapolis, Ind.	-7:30 am-1:00 am
WNAC	ak	1000	R (5)	Boston, Mass.	-6:00 am-1:00 am
XEFJ	ak	100	....	Monterrey, N. L.	-11:00 am-8:00 pm

1240 keys. (241.8)

CJCB	ak	1000	F	Sydney, N. S.	-7:00 am-11:00 pm
CMHB	z	50	....	Sancti Spiritus, Cuba	
KGCU	ak	250	I	Mandan, N. Dak.	
KLPM	ak	250	1XZ	Minot, N. Dak.	
KTAT	ak	1000	M	Fort Worth, Texas	
KTFI	ak	1000	....	Twin Falls, Idaho	
WKAO	ak	1000	....	San Juan, P. R.	-6:00 am-9:30 pm
WXYZ	ak	1000	B	Detroit, Mich.	
XEAP	z	50	....	Obregon, Son.	
XEAS	z	100	....	Mexico City, D. F.	
XEAY	z	200	....	Mexico City, D. F.	
XEKL	z	500	....	Leon, Guan.	
XELA	z	50	....	Saltillo, Coah.	

1250 keys. (239.9)

CMCK	ak	150	....	Santiago, Cuba	
KFOX	ak	1000	....	Long Beach, Calif.	
KIT	ak	250	M (.5)	Yakima, Wash.	
KXOK	z	1000	P	St. Louis, Mo.	
WAIR	ak	250	D	Winst.-Salem, N. C.	-6:00 am-ss
WCAL	ah	1000	2XZ	Northfield, Minn.	
WDSU	ak	1000	B	New Orleans, La.	-7:00 am-midnight
WHBI	ak	1000	a (2.5)	Newark, N. J.	
WLB	ak	1000	2XZ	Minneapolis, Minn.	
WNEW	ak	1000	a (2.5)	New York, N. Y.	-All night station
WTCN	ak	1000	B (5)	Minneapolis, Minn.	-7:00 am-midnight
XEXH	z	250	....	San Luis Pot., S.L.P.	

1260 keys. (238.0)

CMBD	ak	500	2X	Havana, Cuba	-7:00 am-midnight
CMC	z	150	2	Havana, Cuba	-8:00 am-midnight
KGVO	ak	1000	C	Missoula, Mont.	-9:00 am-1:00 am
KHSL	ak	250	....	Chico, Calif.	
KOIL	ak	1000	BM(5)	Omaha, Nebr.	-6:00 am-....
KPAC	ak	500	D	Port Arthur, Texas	-6:00 am-5:45 pm
KRGV	ak	1000	N	Weslaco, Texas	-8:00 am-11:00 pm
KUOA	ak	5000	D	Siloam Spgs., Ark.	
KVOA	ak	1000	....	Tucson, Ariz.	
WHIO	ak	1000	C (5)	Dayton, Ohio	-6:00 am-1:00 am
WNBX	ak	500	CM(1)	Springfield, Vt.	
WTOC	ak	1000	C	Savannah, Ga.	-7:00 am-midnight

1270 keys. (236.1)

CMHD	dk	250	....	Caibarien, Cuba	
KGCA	ak	100	2D	Decorah, Iowa	-9:30 am-3:30 pm
KOL	ak	1000	M (5)	Seattle, Wash.	
KVOR	ak	1000	C	Colo. Springs, Colo.	-9:00 am-1:00 am
KWLC	ak	100	2D	Decorah, Iowa	

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WASH	ak	500	DaN	Grd. Rpds., Mich.	—6:30 am—midnight
WFBR	ak	500	R (1)	Baltimore, Md.	—7:00 am—midnight
WJDX	ak	1000	R (5)	Jackson, Miss.	
WOOD	ak	500	Na	Gd. Rapids, Mich.	—7:00 am—midnight
XEXB	ak	50	.....	Jalapa, Ver.	
XEXE	z	17	.....	Mexico City, D. F.	

1280 keys. (234.2)

CMKO	z	.....	.....	Holguin, Cuba	
KFBB	ak	1000	C (5)	Great Falls, Mont.	
KLS	ak	250	.....	Oakland, Calif.	
WGAM	ak	500	1	Camden, N. J.	
WGAP	ak	500	1	Asbury Park, N. J.	
WDOD	ak	1000	C (5)	Chattanooga, Tenn.	—7:30 am—12:30 am
WIBA	ak	1000	N (5)	Madison, Wis.	
WORC	ak	500	C	Worcester, Mass.	—8:00 am—midnight
WRR	ak	500	M	Dallas, Texas	—8:00 am—midnight
WTNJ	ak	500	1	Trenton, N. J.	
XEMX	z	100	.....	Mexico City, D. F.	
XEXM	z	.....	.....	Mexico City, D. F.	

1290 keys. (232.4)

CMCU	ak	500	.....	Havana, Cuba	—6:55 am—1:00 am
KDYL	ak	1000	RX	Salt Lake City, Ut.	—8:00 am—3:00 am
KLCN	ak	100	D	Blytheville, Ark.	
KTRH	ak	1000	C (5)	Houston, Texas	
WEBC	ak	1000	N (5)	Duluth, Minn.	—8:00 am—1:00 am
WJAS	ak	1000	C (5)	Pittsburgh, Pa.	—7:30 am—12:30 am
WNBZ	ak	100	D	Saranac Lake, N. Y.	—9:30 am—ss
WNEL	ak	1000	(2.5)	San Juan, P. R.	—5:45 am—11:30 pm

1300 keys. (230.6)

KALE	ak	500	CMX	Portland, Ore.	
KFAC	ak	1000	.....	Los Angeles, Calif.	—All night station
KFH	ak	1000	C (5)	Wichita, Kans.	
WBBR	ak	1000	1	Brooklyn, N. Y.	
WEVD	ak	1000	1	New York, N. Y.	
WFAB	ak	1000	1	New York, N. Y.	
WFBC	ak	1000	N (5)	Greenville, S. C.	
WHAZ	ak	1000	1	Troy, N. Y.	—6:00 pm—midnight
WHBL	ak	250	.....	Sheboygan, Wis.	

1310 keys. (228.9)

CHCK	ak	50	.....	Charlottetown, P.E.I.	
CJKL	ak	100	F	North Bay, Ont.	
CJLS	ak	100	.....	Yarmouth, N. S.	
CKCV	ak	100	F	Quebec, P. Q.	—7:55 am—11:30 pm
KAND	z	100	D	Corsicana, Tex.	
KARM	z	100	C	Fresno, Calif.	
KCKN	ak	100	.....	Kansas City, Kans.	
KCRJ	ak	100	(.25)	Jerome, Ariz.	
KFPL	dk	100	(.25)	Dublin, Texas	—7:00 am—10:45 pm
KFXR	ak	100	(.25)	Okla. City, Okla.	—8:00 am—midnight
KFYO	ak	100	(.25)	Lubbock, Texas	—8:00 am—10:15 pm
KGEZ	ak	100	.....	Kalispell, Mont.	—9:00 am—11:00 pm
KGFW	ak	100	.....	Kearney, Nebr.	—7:00 am—10:00 pm
KHUB	ak	250	D	Watsonville, Calif.	
KINY	ak	100	XZ	Juneau, Alaska	
KPBM	z	100	DP	Poplar Bluff, Mo.	
KPDN	ak	100	D	Pampa, Texas	
KRBA	z	100	DP	Lufkin, Texas	
KRMD	ak	100	(.25)	Shreveport, La.	
KROC	ak	100	(.25)	Rochester, Minn.	—7:00 am—12:15 am
KRQA	ak	100	.....	Santa Fe, N. Mex.	
KRRV	z	250	D	Sherman, Texas	
KRSO	z	250	D	Santa Rosa, Calif.	—11:00 am—9:00 pm
KSUB	ak	100	.....	Cedar City, Utah	
KTSM	ak	100	N (.25)	El Paso, Texas	—8:30 am—1:00 am
KVOL	ak	100	.....	Lafayette, La.	—7:00 am—ss
KVOX	z	100	(.25)	Moorhead, Minn.	
KWOS	z	100	D	Jefferson City, Mo.	
KXRO	ak	100	M (.25)	Aberdeen, Wash.	—10:00 am—2:00 am
WAML	ak	100	(.25)	Laurel, Miss.	—8:00 am—8:00 pm
WBEO	ak	100	D	Marquette, Mich.	—10:30 am—5:30 pm

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WBOW	ak	100	N (.25)	Terre Haute, Ind.	-7:00 am—midnight
WBRE	ak	100	N	Wilkes-Barre, Pa.	
WBRK	z	100	C (.25)	Pittsfield, Mass.	
WCLS	ak	100	.....	Joliet, Ill.	-8:00 am—9:30 pm
WCMI	ak	100	(.25)	Ashland, Ky.	-6:00 am—11:30 pm
WDAH	ak	100	S (.25)	El Paso, Texas	-11:30 am—10:30 pm (Sun. only)
WDBR	ak	100	B (.25)	Buffalo, N. Y.	-7:00 am—midnight
WEMP	ak	100	D	Milwaukee, Wis.	-7:30 am—ss
WEXL	ak	50	.....	Royal Oak, Mich.	-8:00 am—4:00 am
WFCG	ak	100	3	Altoona, Pa.	-7:00 am—10:30 pm
WFDK	ak	100	.....	Flint, Mich.	-6:00 am—midnight
WGAU	z	100	(.25)P	Athens, Ga.	
WGH	ak	100	(.25)	Newport News, Va.	-7:00 am—midnight
WGTM	z	100	D	Wilson, N. C.	
WHAT	ak	100	4	Philadelphia, Pa.	
WJAC	ak	100	3 (.25)	Johnstown, Pa.	
WLAK	z	100	.....	Lakeland, Fla.	
WLBC	ak	100	(.25)	Muncie, Ind.	-7:00 am—midnight
WLNH	ak	100	M	Laconia, N. H.	
WMBO	ak	100	.....	Auburn, N. Y.	
WMFF	ak	100	(.25)	Plattsburg, N. Y.	
WNBH	ak	100	M (.25)	New Bedford, Mass.	-7:30 am—11:15 pm
WOL	ak	100	MXZ	Washington, D. C.	
WRAW	ak	100	.....	Reading, Pa.	-7:00 am—11:00 pm
WROL	ak	100	N (.25)	Knoxville, Tenn.	
WSAJ	ak	100	.....	Grove City, Pa.	
WSGN	ak	100	B (.25)	Birmingham, Ala.	-8:00 am—midnight
WSJS	ak	100	C	Winston-Salem, N. C.	-8:00 am—10:00 pm
WTAL	ak	100	.....	Tallahassee, Fla.	-8:00 am—midnight
WTEL	ak	100	4	Philadelphia, Pa.	-8:00 am—midnight
WTJS	ak	100	(.25)	Jackson, Tenn.	
WTRC	ak	100	(.25)	Elkhart, Ind.	-7:00 am—10:30 pm
XEAG	z	10	.....	Cordoba, Ver.	
XEBO	z	25	.....	Irapuato, Guan.	
XECW	ak	10	.....	Mexico City, D. F.	
XEFW	ak	250	.....	Tampico, Tams.	-11:00 am—10:00 pm
XETB	ak	125	.....	Torreón, Coah.	
XEXF	ak	125	.....	Monterrey, N. L.	

1320 keys. (227.1)

CMOX	ak	200	.....	Havana, Cuba	
KGHF	ak	500	B	Pueblo, Colo.	-9:00 am—1:00 am
KGMB	ak	1000	CM	Honolulu, Hawaii	-1:30 am—6:00 pm
KID	ak	500	(1)	Idaho Falls, Idaho	
KRNT	ak	1000	C (5)	Des Moines, Iowa	-6:00 am—1:00 am
WADC	ak	1000	C	Akron, Ohio	-7:00 am—1:00 am
WORK	ak	1000	N	York, Pa.	-8:00 am—10:00 pm
WSMB	ak	1000	R	New Orleans, La.	

1330 keys. (225.4)

CMHK	z	250	.....	Cruces, Cuba	
KGB	ak	1000	M	San Diego, Calif.	-10:00 am—4:00 am
KMO	ak	1000	M	Tacoma, Wash.	-9:00 am—3:00 am
KRIS	z	500	N	Corpus Christi, Tex.	
KSCJ	ak	1000	C (5)	Sioux City, Iowa	-7:00 am—1:00 am
WDRC	ak	1000	C (5)	Hartford, Conn.	-7:00 am—midnight
WSAI	ak	1000	MN(5)	Cincinnati, Ohio	-7:00 am—1:00 am
WTAQ	ak	1000	C	Green Bay, Wis.	

1340 keys. (223.7)

CMAB	z	.....	.....	Pinar del Rio, Cuba	
CMJL	z	75	.....	Camaguey, Cuba	
KDTH	z	500	DP	Dubuque, Iowa	
KGDY	ak	250	D	Huron, S. Dak.	-10:00 am—1:00 am
KGIR	ak	1000	N (.25)	Butte, Mont.	
KGNO	ak	250	.....	Dodge City, Kans.	-8:30 am—midnight
WCOA	ak	500	CX	Pensacola, Fla.	
WFEA	ak	500	MN(1)	Manchester, N. H.	-6:30 am—1:00 am
WSPD	ak	1000	B (5)	Toledo, Ohio	-6:30 am—.....
XEXD	z	350	.....	Jalapa, Ver.	

1350 keys. (222.1)

CMCA	ak	450	X	Havana, Cuba	
CMKW	z	.....	.....	Santiago, Cuba	
KIDO	ak	1000	N (.25)	Boise, Idaho	-10:00 am—midnight
KWK	ak	1000	BM(5)	St. Louis, Mo.	-6:30 am—1:00 am

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WAWZ	ak	500	1 (1)	Zarephath, N. J.	-6:00 am-.....
WBNX	ak	1000	1	New York, N. Y.	
WMBG	ak	500	R	Richmond, Va.	

1360 kcys. (220.4)

CMJH	dk	50	.....	Ciego de Avila, Cuba	
KCRC	ak	250	M	Enid, Okla.	-8:00 am-11:00 pm
KGER	ak	1000	.....	Long Beach, Calif.	
WCSC	ak	500	N (1)	Charleston, S. C.	-7:00 am-midnight
WFBL	ak	500	C (5)	Syracuse, N. Y.	-7:00 am-1:00 am
WGES	ak	500	1 (1)	Chicago, Ill.	-8:00 am-9:00 pm
WBOC	ak	1000	D	Vicksburg, Miss.	
WSBT	ak	500	1	South Bend, Ind.	

1370 kcys. (218.8)

CFAR	z	100	.....	Flin Flon, Man.	
CKCW	ak	100	F	Moncton, N. B.	
CMGE	ak	150	.....	Cardenas, Cuba	-10:00 am-10:30 pm
KAST	ak	100	D	Astoria, Ore.	-11:00 am-8:30 pm
KCMO	ak	100	.....	Kansas City, Mo.	-7:00 am-2:00 am
KEEN	ak	100	3	Seattle, Wash.	-3:00 pm-1:00 am
KELD	z	100	.....	El Dorado, Ark.	
KERN	ak	100	N	Bakersfield, Calif.	-11:00 am-3:00 am
KFGQ	ak	100	D	Boone, Iowa	-7:00 am-2:00 pm
KFJZ	ak	100	(.25)	Fort Worth, Texas	-7:30 am-midnight
KFRO	ak	250	D	Longview, Texas	-7:00 am-ss
KGAR	ak	100	C (.25)	Tucson, Arizona	
KGFL	ak	100	4	Roswell, N. Mex.	
KGKL	ak	100	(.25)	San Angelo, Texas	
KICA	ak	100	4	Clovis, N. Mex.	-9:00 am-11:00 pm
KIUP	ak	100	.....	Durango, Colo.	-10:00 am-11:00 pm
KLUF	ak	100	.....	Galveston, Texas	-9:00 am-midnight
KMAC	ak	100	5 (.25)	San Antonio, Tex.	-8:00 am-9:00 pm
KOBH	ak	100	.....	Rapid City, S. Dak.	-8:00 am-midnight
KOKO	z	100	.....	La Junta, Colo.	
KONO	ak	100	5	San Antonio, Tex.	-7:00 am-11:00 pm
KRE	ak	100	(.25)	Berkeley, Calif.	-24 hours daily
KRKO	ak	50	3	Everett, Wash.	
KRMC	z	100	(.25)	Jamestown, N. D.	
KSLM	ak	100	M	Salem, Ore.	-10:00 am-1:00 am
KTFM	ak	250	D	Temple, Texas	
KTKOK	bk	100	M	Oklahoma City, Ok.	
KUJ	ak	100	.....	Walla Walla, Wash.	-9:30 am-1:00 am
KVGB	z	100	.....	Great Bend, Kans.	
KVRS	z	100	(.25)P	Rock Springs, Wyo.	
KWYO	ak	100	(.25)	Sheridan, Wyo.	-9:00 am-midnight
WABY	ak	100	B	Albany, N. Y.	-7:00 am-midnight
WAGF	ak	250	D	Dothan, Ala.	-9:00 am-ss
WAIL	ak	100	(.25)	Atlanta, Ga.	-7:00 am-1:00 am
WBLK	ak	100	.....	Clarksburg, W. Va.	-6:00 am-
WBNY	ak	100	2 (.25)	Buffalo, N. Y.	-7:30 am-midnight
WBTM	ak	100	(.25)	Danville, Va.	-7:00 am-10:00 pm
WCBM	ak	100	(.25)	Baltimore, Md.	
WDAS	ak	100	(.25)	Philadelphia, Pa.	-8:00 am-midnight
WDWS	ak	100	D	Champaign, Ill.	
WEOA	ak	100	C (.25)	Evansville, Ind.	
WFOR	ak	100	.....	Hattiesburg, Miss.	-8:00 am-9:00 pm
WGL	ak	100	N	Fort Wayne, Ind.	
WGRC	ak	250	D	New Albany, Ind.	
WHBO	ak	100	.....	Memphis, Tenn.	-8:00 am-11:30 pm
WHDF	ak	100	(.25)	Calumet, Mich.	-10:30 am-6:30 pm
WILB	ak	100	C (.25)	Virginia, Minn.	
WIBM	ak	100	(.25)	Jackson, Mich.	-6:30 am-12:30 am
WLLH	ak	100	Sy	Lawrence, Mass.	-7:30 am-midnight
WLLH	ak	100	MSy (.25)	Lowell, Mass.	-7:30 am-midnight
WMBR	ak	100	C (.25)	Jacksonville, Fla.	-7:30 am-midnight
WMFD	ak	100	D	Wilmington, N. C.	
WMFO	ak	100	D	Decatur, Ala.	-8:00 am-6:30 pm
WMIN	ak	100	(.25)	St. Paul, Minn.	-7:00 am-1:00 am
WOC	ak	100	C (.25)	Davenport, Iowa	-7:00 am-1:00 am
WPAY	ak	100	.....	Portsmouth, Ohio	-7:00 am-10:15 pm
WPRA	z	100	(.25)	Mayaguez, P. R.	
WRAK	ak	100	(.25)	Williamsport, Pa.	
WRDO	ak	100	M	Augusta, Maine	-8:00 am-11:15 pm
WRJN	ak	100	(.25)	Racine, Wis.	-8:25 am-midnight
WSAU	ak	100	.....	Wausau, Wis.	-7:00 am-11:15 pm
WSVS	ak	50	2D	Buffalo, N. Y.	
XECZ	z	100	.....	San L. Pot., S.L.P.	

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

XEI	ak	125	....	Morelia, Mich.	
XELZ	z	100	....	Mexico City, D. F.	
.....	2	100	....	Owen Sound, Ont.	

1380 kcys. (217.3)

CMCR	z	....	....	Havana, Cuba	
CMCX	z	150	....	Havana, Cuba	—9:00 am—11:00 pm
KOH	ak	500	C	Reno, Nevada	—11:00 am—3:00 am
KOV	ak	500	C1	Pittsburgh, Pa.	—7:00 am—10:00 pm
WALA	ak	500	C (1)	Mobile, Ala.	—8:30 am—midnight
WKBB	ak	1000	C	La Crosse, Wis.	
WNBC	ak	250	D	New Britain, Conn.	—7:00 am—ss
WSMK	ak	200	C 1	Dayton, Ohio	—6:00 am—....

1390 kcys. (215.7)

CJGX	ak	100	F	Yorkton, Sask.	—8:30 am—12:30 am
CMJC	z	150	....	Camaguey, Cuba	
KLRA	ak	1000	C (5)	Little Rock, Ark.	
KOY	ak	1000	C	Phoenix, Ariz.	—9:00 am—12:15 am
KRLC	ak	250	....	Lewiston, Idaho	
WHK	ak	1000	BM (2.5)	Cleveland, Ohio	—6:30 am—midnight
WQDM	dk	1000	D	St. Albans, Vt.	

1400 kcys. (214.2)

CMGC	ad	150	....	Matanzas, Cuba	—8:00 am—11:00 pm
CKKR	z	100	....	Santiago, Cuba	
KHBC	ak	250	CM	Hilo, T. H.	
KLO	ak	500	B	Ogden, Utah	—10:00 am—1:00 am
KTUL	ak	500	C (1)	Tulsa, Okla.	
WARD	ak	500	2	Brooklyn, N. Y.	
WBBC	ak	500	2 (1)	Brooklyn, N. Y.	
WHDL	ak	250	D	Olean, N. Y.	
WIRE	ak	1000	MR (5)	Indianapolis, Ind.	—7:30 am—1:00 am
WLTH	ak	500	2	Brooklyn, N. Y.	
WVFW	ak	500	2	Brooklyn, N. Y.	

1410 kcys. (212.6)

CKFC	ak	50	5	Vancouver, B. C.	
CKMO	ak	100	5	Vancouver, B. C.	
CMCQ	ak	5000	....	Havana, Cuba	
KFJM	ak	500	(1)	Grand Forks, N. D.	
KGNC	ak	1000	(2.5) N	Amarillo, Texas	
KMED	ck	250	N	Medford, Ore.	
WAAB	ak	500	M (1)	Boston, Mass.	—24 hours daily
WBCM	ak	500	(1)	Bay City, Mich.	—9:00 am—12:30 am
WHIS	ak	500	(1)	Bluefield, W. Va.	—5:00 am—....
WROK	ak	500	(1)	Rockford, Ill.	—7:30 am—midnight
WWSA	ak	500	C (1)	Montgomery, Ala.	—7:30 am—midnight

1420 kcys. (211.1)

CHLN	z	100	....	Three Rivers, P. Q.	
CKGB	ak	100	F	North Bay, Ont.	—11:00 am—11:30 pm
KABC	ak	100	(.25)	San Antonio, Texas	—7:00 am—12:15 am
KABR	ak	100	XZ	Aberdeen, S. D.	
KATE	ak	250	D	Albert Lea, Minn.	—7:30 am—ss
KBPS	ak	100	4	Portland, Ore.	—2:00 pm—8:00 pm
KCMC	ak	100	(.25)	Texarkana, Tex.	
KEUB	z	100	....	Price, Utah	—9:30 am—midnight
KFAM	z	100	P	St. Cloud, Minn.	
KFIZ	ak	100	....	Fond du Lac, Wis.	
KGFF	ak	100	(.25) M	Shawnee, Okla.	—8:00 am—10:00 pm
KGCC	ak	100	....	San Francisco, Cal.	
KGIW	ak	100	1	Alamosa, Colo.	—9:30 am—10:30 pm
KIDW	ak	100	1	Lamar, Colo.	—9:00 am—8:00 pm
KIUN	ak	100	....	Pecos, Texas	—8:00 am—10:00 pm
KLBM	z	100	(.25) P	La Grande, Ore.	
KNET	ak	100	D	Palestine, Texas	
KORE	ak	100	M	Eugene, Ore.	
KRBC	ak	100	(.25)	Abilene, Texas	—8:00 am—10:00 pm
KRLH	ak	100	D	Midland, Texas	
KTRI	z	100	(.25) P	Sioux City, Iowa	
KUMA	ak	100	....	Yuma, Ariz.	

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KWBG	ak	100	....	Hutchinson, Kans.	
KXL	ak	100	4 (.25)	Portland, Ore.	—All night station
WACO	ak	100	C	Waco, Texas	
WAGM	ak	100	....	Presque Isle, Me.	—11:00 am—7:00 pm
WAGO	ak	100	(.25)	Chattanooga, Tenn.	—7:00 am—7:00 pm
WAZL	ak	100	2	Hazleton, Pa.	—9:00 am—10:00 pm
WCBS	ak	100	(.25)	Springfield, Ill.	—8:00 am—11:00 pm
WCHV	ak	100	3 (.25)	Charlottesville, Va.	—7:00 am—midnight
WEED	ak	100	3 (.25)	Rocky Mount, N. C.	
WELL	ak	100	....	Battle Creek, Mich.	—7:30 am—midnight
WGFC	ak	100	....	Albany, Ga.	
WHFC	ak	100	(.25)	Cicero, Ill.	—7:00 am—1:00 am
WILM	aj	100	2	Wilmington, Del.	
WJMS	ak	100	....	Ironwood, Mich.	
WLAP	ak	100	(.25)	Lexington, Ky.	
WLEU	ak	100	(.25) B	Erie, Pa.	
WMAS	ak	100	C (.25)	Springfield, Mass.	—7:00 am—midnight
WMBG	ak	100	(.25)	Detroit, Mich.	—7:30 am—midnight
WMBH	ak	100	(.25)	Joplin, Mo.	
WMSB	ak	250	D	Uniontown, Pa.	—6:00 am—6:00 pm
WMFJ	ak	100	....	Daytona Bch., Fla.	
WMSD	ak	100	....	Sheffield, Ala.	—8:00 am—11:00 pm
WNNY	z	100	(.25) P	Watertown, N. Y.	
WPAD	ak	100	(.25)	Paducah, Ky.	—7:00 am—midnight
WPAR	ak	100	C	Parkersburg, W. V.	
WPRP	z	100	(.25)	Ponce, Puerto Rico	
.....	z	100	....	Kenora, Ont.	

1430 kcys. (209.7)

CMJP	ak	75	....	Moron, Cuba	
KECA	ak	1000	(5) B	Los Angeles, Cal.	—10:00 am—3:00 am
KGNF	ak	1000	D	North Platte, Neb.	—8:00 am—6:15 pm
KSO	ak	500	BM(2.5)	Des Moines, Iowa	
WBNS	ak	500	C(1) X	Columbus, Ohio	—6:30 am—....
WHEC	ak	500	C(1)	Rochester, N. Y.	—7:00 am—midnight
WHP	ak	500	C(1)	Harrisburg, Pa.	—6:30 am—midnight
WMPB	ak	500	(1) B	Memphis, Tenn.	
WOKO	ak	500	C(1)	Albany, N. Y.	—8:00 am—1:00 am

1440 kcys. (208.2)

CMOA	z	150	....	Havana, Cuba	
KDFN	ak	500	....	Casper, Wyo.	
KELA	ak	500	M	Centralia, Wash.	
KXYZ	ak	1000	B	Houston, Texas	—24 hours daily
WBIG	ak	1000	C	Greensboro, N. C.	—6:30 am—11:30 pm
WCBA	aj	500	a	Allentown, Pa.	—6:30 am—11:30 pm
WMBD	ak	1000	C(5)	Peoria, Ill.	—7:00 am—midnight
WSAN	aj	500	Na	Allentown, Pa.	—1:00 pm—11:30 pm
XEFI	ak	250	....	Chihuahua, Chih.	

1450 kcys. (206.8)

CFCT	ak	500	....	Victoria, B. C.	—10:45 am—12:15 am
CHGS	ak	50	F	Summerside, P.E.I.	—6:30 am—10:00 pm
CMHM	z	100	....	Cienfuegos, Cuba	
KGCX	ak	1000	....	Wolf Point, Mont.	
KIEM	ak	500	M(1)	Eureka, Calif.	—10:00 am—1:00 am
KTBS	ak	1000	N	Shreveport, La.	—7:30 am—1:00 am
WAGA	ak	500	B(1)	Atlanta, Ga.	
WGAR	ak	500	C(1)	Cleveland, Ohio	—6:30 am—midnight
WHOM	ak	250	....	Jersey City, N. J.	—7:00 am—midnight
WSAR	ak	1000	M	Fall River, Mass.	
XEF	ak	100	....	Juarez, Chih.	

1460 kcys. (205.4)

CMKF	z	250	....	Holguin, Cuba	
KSTP	ak	10000	R(25)	St. Paul, Minn.	—7:00 am—2:00 am
WJSV	ak	10000	C	Washington, D. C.	

1470 kcys. (204.0)

KGA	ak	5000	BM	Spokane, Wash.	
WLAC	ak	5000	C	Nashville, Tenn.	

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1480 kcys. (202.6)

KOMA	ak	5000	C	Oklahoma City, Ok.	-7:30 am-1:00 am
WHIP	z	5000	D	Hammond, Ind.	-7:30 am-5:30 pm
WKBW	ak	5000	C	Buffalo, N. Y.	-8:00 am-1:00 am

1490 kcys. (201.2)

KFBK	ak	5000	N X	Sacramento, Calif.	
WCKY	ak	10000	N	Covington, Ky.	-7:00 am-midnight

1500 kcys. (199.9)

CJIC	ak	100	....	S. S. Marie, Ont.	-10:00 am-10:00 pm
KAWM	z	100	....	Gallup, N. Mex.	
KBIX	ak	100	M	Muskogee, Okla.	-8:00 am-11:00 pm
KBST	z	100	....	Big Spring, Texas	
KDAL	ak	100	C	Duluth, Minn.	
KDB	ak	100	M(.25)	Santa Barbara, Cal.	
KGFI	ak	100	(.25)	Brownsville, Tex.	
KGKB	ak	100	(.25)	Tyler, Texas	
KGKY	ak	100	(.25)	Scottsbluff, Neb.	-8:30 am-11:00 pm
KNEL	ak	250	D	Brady, Texas	-8:00 am-6:00 pm
KNOW	ak	100	C	Austin, Texas	
KOTN	ak	100	D	Pine Bluff, Ark.	-8:00 am-ss
KOVC	ak	100	(.25)	Valley City, N. D.	-8:00 am-10:00 pm
KPLC	ak	100	(.25)	Lake Charles, La.	
KPLT	z	250	D	Paris, Texas	
KPO	ak	100M(.25)		Wenatchee, Wash.	
KRNR	ak	100M(.25)		Roseburg, Ore.	
KROD	ak	100	P	El Paso, Texas	
KSAL	ak	100	(.25)	Salina, Kans.	
KUTA	z	100	P	Salt Lake City, Ut.	
KVOE	ak	100	M	Santa Ana, Calif.	-Noon to 2:00 am
KWEW	z	100	DP	Hobbs, N. Mex.	
KXO	ak	100	....	El Centro, Calif.	-11:00 am-midnight
KXNW	ak	100	1(.25)	Brooklyn, N. Y.	-9:00 am-midnight
WDNC	ak	100	C	Durham, N. C.	-7:30 am-12:30 am
WGAL	ak	100	(.25)	Lancaster, Pa.	
WHBB	ak	100	....	Selma, Ala.	-7:30 am-ss
WHBF	ak	100	(.25)	Kosciusko, Miss.	-7:30 am-10:00 pm
WJBK	ak	100	(.25)	Detroit, Mich.	-24 hours daily
WKAT	z	100	....	Miami Beach, Fla.	
WKBB	ak	100	(.25)	E. Dubuque, Ill.	
WKBV	ak	100	(.25)	Richmond, Ind.	
WKBZ	ak	100	(.25)	Muskegon, Mich.	-7:00 am-10:00 pm
WKEU	ak	100	D	Griffin, Ga.	
WMBO	ak	100	1	Brooklyn, N. Y.	
WMEX	ak	100	(.25)	Boston, Mass.	
WNBF	ak	100	C(.25)	Binghamton, N. Y.	
WNLC	ak	100	DM	New London, Conn.	
WOMI	z	100	(.25)	Owensboro, Ky.	
WOPJ	ak	100	....	Bristol, Tenn.	-7:00 am-10:30 pm
WRDW	ak	100	C(.25)	Augusta, Ga.	-7:00 am-9:00 pm
WRGA	ak	100	(.25)	Rome, Ga.	-8:00 am-11:00 pm
WRDT	z	100	B	Richmond, Va.	
WSYB	ak	100	....	Rutland, Vt.	-10:00 am-9:00 pm
WTMV	ak	100	(.25)	E. St. Louis, Ill.	
WWRL	ak	100	1(.25)	Woodside, N. Y.	-8:00 am-midnight
WWSW	ak	100	(.25)	Pittsburgh, Pa.	

1510 kcys. (198.6)

CFRC	ak	100	F	Kingston, Ont.	-Noon-11:00 pm
CKCR	ak	100	....	Waterloo, Ont.	-8:00 am-11:00 pm
TGI	ak	....	....	Guatemala City, Gt.	

1530 kcys. (196.0)

KXBY	ak	1000	....	Kansas City, Mo.	-8:00 am-3:30 am
WBRY	ak	1000	M	Waterbury, Conn.	-8:00 am-midnight

1550 kcys. (193.4)

KPMC	ak	1000	M	Bakersfield, Calif.	-10:00 am-2:00 am
WOXR	ak	1000	....	New York, N. Y.	-10:00 am-9:15 pm

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Thomasville WPAK 1210 100</p> <p>Waycross WAYX 1200 100</p> <hr/> <p style="text-align: center;">HAWAII</p> <hr/> <p>Hilo KHBC 1400 250M</p> <p>Honolulu KGMB 1320 1000 C KGU 750 2500 N</p> <hr/> <p style="text-align: center;">IDAHO</p> <hr/> <p>Boise KIDO 1350 1000 N</p> <p>Coeur d'Alene KGGI 1200 100</p> <p>Idaho Falls KID 1320 500</p> <p>Lewiston KRLC 1390 250</p> <p>Nampa KFXD 1200 100</p> <p>Pocatello KSEI 900 250</p> <p>Twin Falls KTFI 1240 1000</p> <hr/> <p style="text-align: center;">ILLINOIS</p> <hr/> <p>Bloomington WJBC 1200 100</p> <p>Carthage WCZA 1070 100</p> <p>Champaign WDWS 1370 100</p> <p>Chicago WAAF 920 1000 WBBM 770 50000 C WCBF 1080 5000 WCFM 970 5000 N WCRW 1210 100 WEDC 1210 100 WENR 870 50000 B WGES 1360 500 WGN 720 50000M WJJD 1130 20000 WLS 870 50000 B WMAQ 670 50000 R WMBI 1080 5000 WSBC 1210 100</p> <p>Cicero WHFC 1420 100</p> <p>Decatur WJBL 1200 100</p> <p>East Dubuque WKBB 1500 100</p> <p>East St. Louis WTMV 1500 100</p> <p>Harrisburg WEBQ 1210 100</p> <p>Joliet WCLS 1310 100</p> <p>Peoria WMBD 1440 1000 C</p> <p>Quincy WTAD 900 1000</p>	<p>Rockford WROK 1410 500</p> <p>Rock Island WHBF 1210 100</p> <p>Springfield WCBS 1420 100 WTFX 1210 100</p> <p>Tuscola WDZ 1020 250</p> <p>Urbana WILL 580 1000</p> <hr/> <p style="text-align: center;">INDIANA</p> <hr/> <p>Anderson WHBU 1210 100</p> <p>Ekhart WTRC 1310 100</p> <p>Evansville WEOA 1370 100 C WGBF 630 500 N</p> <p>Fort Wayne WGL 1370 100 N WOWO 1160 10000 B</p> <p>Gary WIND 560 1000</p> <p>Hammond WHIP 1480 5000 WWAE 1200 100</p> <p>Indianapolis WPBM 1230 1000 C WGVA 1050 1000 WIRE 1400 1000 R</p> <p>Muncie WLBC 1310 100</p> <p>New Albany WGRC 1370 250</p> <p>Richmond WKBV 1500 100</p> <p>South Bend WFAM 1200 100 WSBT 1360 500</p> <p>Terre Haute WBOW 1310 100 N</p> <p>West Lafayette WBAA 890 500</p> <hr/> <p style="text-align: center;">IOWA</p> <hr/> <p>Ames WOI 640 5000</p> <p>Boone KFGQ 1370 100</p> <p>Cedar Rapids WMT 600 1000 B</p> <p>Davenport WOC 1370 100 C</p> <p>Decorah KGCA 1270 100 KWLC 1270 100</p> <p>Des Moines KRNT 1320 1000 C KSO 1430 500 B WHO 1000 50000 R</p> <p>Dubuque KDTI 1340 500</p> <p>Iowa City WSUI 880 500</p>	<p>Marshalltown KFJB 1200 100</p> <p>Mason City KGLO 1210 100 C</p> <p>Shenandoah KFNF 890 500 KMA 930 1000</p> <p>Sioux City KSCJ 1330 1000 C KTRI 1420 100</p> <hr/> <p style="text-align: center;">KANSAS</p> <hr/> <p>Abilene KFBI 1050 5000</p> <p>Coffeyville KGGF 1010 1000M</p> <p>Dodge City KGNO 1340 250</p> <p>Garden City KIUL 1210 100</p> <p>Great Bend KVBG 1370 100</p> <p>Hutchinson KWBG 1420 100</p> <p>Kansas City KCKN 1310 100</p> <p>Lawrence KFKU 1220 1000 WREN 1220 1000 B</p> <p>Manhattan KSAC 580 500</p> <p>Pittsburg KOAM 790 1000 N</p> <p>Salina KSAL 1500 100</p> <p>Topeka WIBW 580 1000 C</p> <p>Wichita KANS 1210 100 B KFH 1300 1000 C</p> <hr/> <p style="text-align: center;">KENTUCKY</p> <hr/> <p>Ashland WCMI 1310 100</p> <p>Covington WCKY 1490 10000 N</p> <p>Lexington WLAP 1420 100</p> <p>Louisville WAVE 940 1000 N WHAS 820 50000 C</p> <p>Middlesboro WLMB 1210 100</p> <p>Owensboro WOMI 1500 100</p> <p>Paducah WPAD 1420 100</p> <hr/> <p style="text-align: center;">LOUISIANA</p> <hr/> <p>Alexandria KALB 1210 100</p> <p>Baton Rouge WJBO 1120 500 B</p> <p>Lafayette KVOL 1310 100</p>	<p>Lake Charles KPLC 1500 100</p> <p>Monroe KMLB 1200 100</p> <p>New Orleans WBNO 1200 100 WDSU 1250 1000 B WJRW 1200 100 WSMB 1320 1000 R WWL 850 10000 C</p> <p>Shreveport KRMD 1310 100 KTBS 1450 1000 N KWKH 1100 10000 C</p> <hr/> <p style="text-align: center;">MAINE</p> <hr/> <p>Augusta WRDO 1370 100M</p> <p>Bangor WABI 1200 100 WLBZ 620 500 C</p> <p>Portland WCSH 940 1000 R WGAN 640 500</p> <p>Presque Isle WAGM 1420 100</p> <hr/> <p style="text-align: center;">MARYLAND</p> <hr/> <p>Baltimore WBAL 760 2500 B WBAL 1060 10000 B WCAO 600 500 C WCBM 1370 100 WFBR 1270 500 R</p> <p>College Park W3XJ 1060 100</p> <p>Cumberland WTBO 800 250</p> <p>Frederick WFMD 900 500</p> <p>Hagerstown WJFJ 1210 50</p> <p>Salisbury WSAL 1200 250</p> <hr/> <p style="text-align: center;">MASSACHUSETTS</p> <hr/> <p>Boston WAAB 1410 500M WBZ 990 50000 B WCOP 1120 500 WEI 590 1000 C WHDH 830 1000 WMEX 1500 100 WNAC 1230 1000 R WORL 920 500</p> <p>Fall River WSAR 1450 1000M</p> <p>Greenfield WHA1 1210 250</p> <p>Lawrence WLAW 680 1000 WLLH 1370 100</p> <p>Lowell WLLH 1370 100M</p> <p>New Bedford WNBH 1310 100M</p> <p>Pittsfield WBRK 1310 100 C</p>
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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Springfield WBZA 990 1000 B WMAS 1420 100 C WSPR 1140 500 M Worcester WORC 1280 500 C WTAG 580 1000 R</p>	<p>St. Paul KSTP 1460 10000 R WMIN 1370 100 Virginia WHLB 1370 100 C Winona KWNO 1200 250</p>	<p>Wolf Point KGCX 1450 1000</p>	<p>Gallup KAWM 1500 100 Hobbs KWEW 1500 100 Roswell KGFL 1370 100 Santa Fe KRQA 1310 100</p>
MICHIGAN	MISSISSIPPI	NEBRASKA	NEW YORK
<p>Battle Creek WELL 1420 100 Bay City WBCM 1410 500 Calumet WHDF 1370 100 Detroit WJBK 1500 100 WJR 750 50000 C WMBG 1420 100 WWJ 920 5000 R WXYZ 1240 1000 B East Lansing WKAR 850 1000 Flint WFDF 1310 100 Grand Rapids WASH 1270 500 N WOOD 1270 500 N Ironwood WJMS 1420 100 Jackson WIBM 1370 100 Kalamazoo WKZO 590 1000 B Lansing WJIM 1210 100 Lapeer WMPG 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100 Royal Oak WEXL 1310 50 Saginaw WHAL 950 500</p>	<p>Grenada WGRM 1210 100 Gulfport WCGM 1210 100 Hattiesburg WFOR 1370 100 Jackson WJDX 1270 1000 R Kosciusko WHBF 1500 100 Laurel WAML 1310 100 Meridian WCOG 880 500 C Wicksburg WQBC 1360 1000</p>	<p>Clay Center KMMJ 740 1000 Kearney KGFV 1310 100 Lincoln KFAB 770 10000 C KFOR 1210 100 C Norfolk WJAG 1060 1000 North Platte KGNF 1430 1000 Omaha KOIL 1260 1000 B WAAW 660 500 WOW 590 1000 R Scottsbluff KGKY 1500 100</p>	<p>Albany WABY 1370 100 WOKO 1430 500 C Auburn WMBQ 1310 100 Binghamton WNBFB 1500 100 C Brooklyn WARD 1400 500 WBBC 1400 500 WBRR 1300 1000 WCNW 1500 100 WLTH 1400 500 WMBQ 1500 100 WVFW 1400 500 Buffalo WBEN 900 1000 R WBNY 1370 100 WEBR 1310 100 B WGR 550 1000 C WKBW 1480 5000 C WSVS 1370 50 Canton WCAD 1220 500 Elmira WESG 850 1000 C Freeport WGBB 1210 100 Jamestown WJTN 1210 100 B Newburgh WGNV 1210 100 New York WABC 860 50000 C WBIL 1100 5000 WBNX 1350 1000 WBOQ 860 50000 R WEAF 660 50000 R WEVD 1300 1000 WFAB 1300 1000 WHN 1010 1000 WINS 1180 1000 WJZ 760 50000 B WMCA 570 1000 WNEW 1250 1000 WNYC 810 1000 WOV 1130 1000 WQXR 1550 1000 Olean WHDL 1400 250 Plattsburg WMFF 1310 100 Rochester WHAM 1150 50000 B WHFC 1430 500 C WSAY 1210 100 Saranac Lake WNBZ 1290 100 Schenectady WGY 790 50000 R Syracuse WFBL 1360 1000 C WSYR 570 1000 B</p>
MINNESOTA	MISSOURI	NEVADA	
<p>Albert Lea KATE 1420 250 Duluth KDAL 1500 100 C WBCB 1290 1000 N Fergus Falls KGDE 1200 100 Hibbing WMFG 1210 100 Minneapolis WCCO 810 50000 C WDGY 1180 1000 C WLB 1250 1000 WTCN 1250 1000 B Moorhead KVOX 1310 100 Northfield WCAL 1250 1000 Rochester KROC 1310 100 St. Cloud KFAM 1420 100</p>	<p>Cape Girardeau KFVS 1210 100 Columbia KFRU 630 500 Jefferson City KWOS 1310 100 Joplin WMBH 1420 100 Kansas City KCMO 1370 100 KMBC 950 1000 C KXBY 1530 1000 WDAF 610 1000 R WHB 860 1000 M Poplar Bluff KPBM 1310 100 St. Joseph KFEQ 680 2500 St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 B KXOK 1250 1000 WEW 760 1000 WIL 1200 100 Springfield KGBX 1230 500 N KWTO 560 5000</p>	<p>Reno KOH 1380 500 C</p>	
	MISSOURI	NEW HAMPSHIRE	
	<p>Cape Girardeau KFVS 1210 100 Columbia KFRU 630 500 Jefferson City KWOS 1310 100 Joplin WMBH 1420 100 Kansas City KCMO 1370 100 KMBC 950 1000 C KXBY 1530 1000 WDAF 610 1000 R WHB 860 1000 M Poplar Bluff KPBM 1310 100 St. Joseph KFEQ 680 2500 St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 B KXOK 1250 1000 WEW 760 1000 WIL 1200 100 Springfield KGBX 1230 500 N KWTO 560 5000</p>	<p>Laconia WLNH 1310 100 M Manchester WFEA 1340 500 N Portsmouth WHBE 740 250</p>	
	MONTANA	NEW JERSEY	
	<p>Billings KGHL 780 1000 N Butte KGIR 1340 1000 N Great Falls KFBB 1280 1000 C Helena KPFA 1210 100 Kallispell KGEZ 1310 100 Lewistown KDNC 1200 100 Missoula KGVO 1260 1000 C</p>	<p>Asbury Park WCAP 1280 500 Atlantic City WPG 1100 5000 C Bridgeton WSNJ 1210 100 Camden WCAM 1280 500 Jersey City WAAT 940 500 WHOM 1450 250 Newark WHBI 1250 1000 WOR 710 50000 M Red Bank WBRB 1210 100 Trenton WTNJ 1280 500 Whippany W3XDD 50000 Zarephath WAWZ 1350 500</p>	
		NEW MEXICO	
		<p>Albuquerque KGGM 1230 1000 KOB 1180 10000 N Carlsbad KLAH 1240 100 Clovis KICA 1370 100</p>	

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Troy WHAZ 1300 1000</p> <p>Utica WBIX 1200 100 C</p> <p>Watertown WNNY 1420 100</p> <p>White Plains WEAS 1210 100</p> <p>Woodside WWRL 1500 100</p>	<p>WSAI 1330 1000 N W8XO 700 500000</p> <p>Cleveland WCLE 610 500M WGAR 1450 500 C WHK 1390 1000 B WTAM 1070 50000 R</p> <p>Columbus WBNS 1430 500 C WCOL 1210 100 N WHKC 640 500 WOSU 570 750</p> <p>Dayton WHIO 1260 1000 C WSMK 1380 200 C</p> <p>Lima WBLV 1210 100</p> <p>Portsmouth WPAV 1370 100</p> <p>Toledo WSPD 1340 1000 B WTOL 1200 100</p> <p>Youngstown WKBN 570 500 C Zanesville WALR 1210 100</p>	<p>Portland KALE 1300 500 C KBPS 1420 100 KEX 1180 5000 B KGW 620 1000 R KOIN 940 1000 C KWJJ 1040 500 KXL 1420 100</p> <p>Roseburg KRNR 1500 100M</p> <p>Salem KSLM 1370 100M</p>	<p>York WORK 1320 1000 N</p>
<p>NORTH CAROLINA</p>		<p>PENNSYLVANIA</p>	
<p>Asheville WWNC 570 1000 N</p> <p>Charlotte WBT 1080 50000 C WSOC 1210 100 N</p> <p>Durham WDNC 1500 100 C</p> <p>Greensboro WBIG 1440 1000 C</p> <p>High Point WMFR 1200 100</p> <p>Kinston WFTC 1200 100</p> <p>Raleigh WPTF 680 1000 N</p> <p>Rocky Mount WEED 1420 100</p> <p>Wilmington WMFD 1370 100</p> <p>Wilson WGTM 1310 100</p> <p>Winston-Salem WAIR 1250 250 WSJS 1310 100 C</p>	<p>Allentown WCBA 1440 500 WSAN 1440 500 N</p> <p>Altoona WFBG 1310 100</p> <p>Easton WEST 1200 100</p> <p>Erie WLEU 1420 100 B</p> <p>Glenside WIBG 970 100</p> <p>Greensburg WHJB 620 250 C</p> <p>Grove City WSAJ 1310 100</p> <p>Harrisburg WHP 1430 500 C WKBO 1200 100</p> <p>Hazleton WAZL 1420 100</p> <p>Johnstown WJAC 1310 100</p> <p>Lancaster WGAL 1500 100</p> <p>Philadelphia KYW 1020 10000 R WCAU 1170 50000 C WDAS 1370 100 WFIL 560 1000 B WHAT 1310 100 WIP 610 1000 WPEN 920 1000 WTEL 1310 100</p> <p>Pittsburgh KDKA 980 50000 B KQV 1380 500 C WCAE 1220 1000 R WJAS 1290 1000 C WWSW 1500 100</p>		<p>Providence WEAN 780 1000M WJAR 890 1000 R WPRO 630 500 C</p>
<p>NORTH DAKOTA</p>		<p>OKLAHOMA</p>	
<p>Bismarck KFYR 550 1000 N</p> <p>Devils Lake KDLR 1210 100</p> <p>Fargo WDAY 940 1000 N</p> <p>Grand Forks KPFM 1410 500</p> <p>Jamestown KRMC 1370 100</p> <p>Mandan KGGU 1240 250</p> <p>Minot KLFM 1240 250</p> <p>Valley City KOVV 1500 100</p>	<p>Ada KADA 1200 100M</p> <p>Ardmore KVSO 1210 100M</p> <p>Elk City KASA 1210 100M</p> <p>Enid KCRC 1360 250M</p> <p>Muskogee KBIX 1500 100M</p> <p>Norman WNAD 1010 1000</p> <p>Oklahoma City KFXR 1310 100 KOMA 1480 5000 C KTOK 1370 100M WKY 900 1000 N</p> <p>Okmulgee KHBG 1210 100</p> <p>Ponca City WBBZ 1200 100M</p> <p>Shawnee KGFF 1420 100M</p> <p>Tulsa KTUL 1400 500 C KVOO 1140 25000 N</p>		<p>RHODE ISLAND</p> <p>Anderson WAIM 1200 100 C</p> <p>Charleston WCSC 1360 500 N</p> <p>Columbia WIS 560 1000 N</p> <p>Florence WOLS 1200 100</p> <p>Greenville WFBC 1300 1000 N</p> <p>Spartanburg WSPA 920 1000</p>
<p>OHIO</p>		<p>OREGON</p>	
<p>Akron WADC 1320 1000 C WJW 1210 100</p> <p>Ashtabula WICA 940 250</p> <p>Canton WHBC 1200 100</p> <p>Cincinnati WCPO 1200 100 WKRC 550 1000 C WLW 700 500000 N</p>	<p>Astoria KAST 1370 100</p> <p>Corvallis KOAC 550 1000</p> <p>Eugene KORE 1420 100M</p> <p>Klamath Falls KFJI 1210 100</p> <p>La Grande KLBK 1420 100</p> <p>Marshfield KOOS 1200 100</p> <p>Medford KMED 1410 250 N</p>		<p>SOUTH CAROLINA</p> <p>Anderson WAIM 1200 100 C</p> <p>Charleston WCSC 1360 500 N</p> <p>Columbia WIS 560 1000 N</p> <p>Florence WOLS 1200 100</p> <p>Greenville WFBC 1300 1000 N</p> <p>Spartanburg WSPA 920 1000</p>
<p>TENNESSEE</p>		<p>SOUTH DAKOTA</p>	
<p>Bristol WPOI 1500 100</p> <p>Chattanooga WAPO 1420 100 WDOD 1280 1000 C</p> <p>Jackson WTJS 1310 100</p> <p>Knoxville WNOX 1010 1000 C WROL 1310 100 N</p> <p>Memphis WIBO 1370 100 WMC 780 1000 R WMPS 1430 500 B WREC 600 1000 C</p>		<p>Aberdeen KABR 1420 100</p> <p>Brookings KFYD 780 1000</p> <p>Huron KGDY 1340 250</p> <p>Pierre KGFV 630 200</p> <p>Rapid City KOBH 1370 100 WCAT 1200 100</p> <p>Sioux Falls KELO 1200 100 N KSOO 1110 2500 N</p> <p>Vermillion KUSD 890 500</p> <p>Watertown KWTN 1210 100</p> <p>Yankton WNAX 570 1000 C</p>	

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Nashville WLAC 1470 5000 C WSIX 1210 100 WSM 650 50000 N</p> <hr/> <p style="text-align: center;">TEXAS</p> <hr/> <p>Ablilene KRBC 1420 100</p> <p>Amarillo KGNC 1410 1000 N</p> <p>Austin KNOW 1500 100 C KTBC 1120 1000</p> <p>Beaumont KFDM 560 500 N</p> <p>Big Spring KBST 1500 100</p> <p>Brady KNEL 1500 250</p> <p>Brownsville KGF1 1500 100</p> <p>College Station WTAW 1120 500</p> <p>Corpus Christi KRIS 1330 500 N</p> <p>Corsicana KAND 1310 100</p> <p>Dallas KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500M</p> <p>Dublin KFPL 1310 100</p> <p>El Paso KROD 1500 100 KTSM 1310 100 N WDAH 1310 100</p> <p>Fort Worth KFJZ 1370 100 KTAT 1240 1000M WBAP 800 50000 N</p> <p>Galveston KLUF 1370 100</p> <p>Greenville KGV1 1200 100</p> <p>Houston KPRC 920 1000 R KTRH 1290 1000 C KXYZ 1440 1000 B</p> <p>Kilgore KOC4 1210 100</p> <p>Longview KFRO 1370 250</p> <p>Lubbock KFYO 1310 100</p> <p>Lufkin KRBA 1310 100</p> <p>Midland KRLH 1420 100</p> <p>Palestine KNET 1420 100</p> <p>Pampa KPDN 1310 100</p> <p>Paris KPLT 1500 250</p> <p>Pecos KIUN 1420 100</p> <p>Port Arthur KPAC 1260 500</p>	<p>San Angelo KGKL 1370 100</p> <p>San Antonio KABC 1420 100 KMAC 1370 100 KONO 1370 100 KTSA 550 1000 C WOAI 1190 50000 N</p> <p>Sherman KRRV 1310 250</p> <p>Temple KTEM 1370 250</p> <p>Texarkana KCMC 1420 100</p> <p>Tyler KGKB 1500 100</p> <p>Waco WACO 1420 100 C</p> <p>Weslaco KRGV 1260 1000 N</p> <p>Wichita Falls KGKO 570 250 C</p> <hr/> <p style="text-align: center;">UTAH</p> <hr/> <p>Cedar City KSUB 1310 100</p> <p>Ogden KLO 1400 500 B</p> <p>Price KEUB 1420 100</p> <p>Salt Lake City KDYL 1290 1000 R KSL 1130 50000 C KUTA 1500 100</p> <hr/> <p style="text-align: center;">VERMONT</p> <hr/> <p>Burlington WCAX 1200 100</p> <p>Rutland WSYB 1500 100</p> <p>St. Albans WQDM 1390 1000</p> <p>Springfield WNBX 1260 500 C</p> <p>Waterbury WDEV 550 500</p> <hr/> <p style="text-align: center;">VIRGINIA</p> <hr/> <p>Charlottesville WCHV 1420 100</p> <p>Danville WBTM 1370 100</p> <p>Harrisonburg WSVA 550 500</p> <p>Lynchburg WLVA 1200 100</p> <p>Newport News WGHN 1310 100</p> <p>Norfolk WTAR 780 1000 N</p> <p>Richmond WBBL 1210 100 WMBG 1350 500 R WRNL 880 500 WRTD 1500 100 B WRVA 1110 5000 C</p> <p>Roanoke WDBJ 930 1000 C</p> <hr/> <p style="text-align: center;">WASHINGTON</p> <hr/> <p>Aberdeen KXRO 1310 100M</p>	<p>Bellingham KVOS 1200 100M</p> <p>Centralia KELA 1440 500M</p> <p>Everett KRKO 1370 50</p> <p>Longview KWLK 780 250</p> <p>Olympia KGY 1210 100M</p> <p>Pullman KWSC 1220 1000</p> <p>Seattle KEEN 1370 100 KIRO 710 1000 C KJR 970 5000 B KOL 1270 1000M KOMO 920 1000 R KRSC 1120 250 KTW 1220 1000 KXA 760 250</p> <p>Spokane KFIO 1120 100 KFPY 890 1000 C KGA 1470 5000 B KHQ 590 1000 R</p> <p>Tacoma KMO 1330 1000M KVI 570 1000 C</p> <p>Walla Walla KUJ 1370 100</p> <p>Wenatchee KPO 1500 100M</p> <p>Yakima KIT 1250 250M</p>	<p>WISN 1120 250 C WTMJ 620 1000 N</p> <p>Poynette WIBU 1210 100</p> <p>Racine WRJN 1370 100</p> <p>Sheboygan WHBL 1300 250</p> <p>Stevens Point WLBL 900 5000</p> <p>Superior WDSM 1200 100</p> <p>Wausau WSAU 1370 100</p> <hr/> <p style="text-align: center;">WYOMING</p> <hr/> <p>Casper KDFN 1440 500</p> <p>Rock Springs KVRS 1370 100</p> <p>Sheridan KWYO 1370 100</p> <hr/> <p style="text-align: center;">BAHAMAS</p> <hr/> <p>Nassau ZNS 540 400</p> <hr/> <p style="text-align: center;">CANADA</p> <hr/> <p style="text-align: center;">ALBERTA</p> <hr/> <p>Calgary CFAC 930 1000 F CFCN 1030 10000 F CJ CJ 690 100 F</p> <p>Edmonton CFRN 960 100 F CJCA 730 1000 F CKUA 580 500 F</p> <p>Grande Prairie CFGP 1200 100</p> <p>Lethbridge CJOC 950 100 F</p> <hr/> <p style="text-align: center;">BRIT. COLUMBIA</p> <hr/> <p>Chilliwack CHWK 780 100 F</p> <p>Kamloops CFJC 880 1000 F</p> <p>Kelowna CKOV 630 100 F</p> <p>Prince Rupert CFPR 580 50</p> <p>Trail CJAT 910 1000 F</p> <p>Vancouver CBR 1100 5000 F CJOR 600 500 CKCD 1010 100 CKFK 1410 50 CKMO 1410 100 CKWX 1010 100</p> <p>Victoria CFCT 1450 500</p> <hr/> <p style="text-align: center;">MANITOBA</p> <hr/> <p>Brandon CKX 1120 1000 F</p> <p>Flin Flon CFAR 1370 100</p>
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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Winnipeg CJRC 630 500 F CKY 910 15000 F	Waterloo CKCR 1510 100 Windsor CBW 600 500 F CKLW 1030 5000M Wingham CKNX 1200 100	Cardenas CMGE 1370 150 Ciego de Avila CMJH 1360 50 CMJI 1130 150 CMJO 1180 50 Cienfuegos CMHJ 1160 175 CMHM 1450 100 CMHX 760 200 Cruces CMHK 1330 250 Guantanamo CMKS 960	GMKW 1350 CMKX 1190	
NEW BRUNSWICK	PRINCE EDWARD ISLAND		DOMINICAN REPUBLIC	
Fredericton CFNB 550 500 F Moncton CKCW 1370 100 F St. John CHSJ 1120 500 F	Charlottetown CFCY 630 1000 F CHCK 1310 50 Summerside CHGS 1450 50 F		Trujillo HIX 800 700	
N. W. TERRITORY	QUEBEC		GUATEMALA	
Aklavik CJCU 1210 50	Chicoutimi CRCS 1210 100 F Hull CKCH 1210 100 F Montreal CBF 910 50000 N CBM 1050 5000 F CFCF 600 500 B CHLP 1120 100 F CKAC 730 5000 C New Carlisle CHNC 960 1000 F Quebec CHRC 580 100 CKCV 1310 100 F CRCK 950 1000 F Rimouski CJBR 1030 1000 F Sherbrooke CHLT 1210 100 Three Rivers CHLN 1420 100		Guatemala City TGW 1230 10000 TG1 1510	
NOVA SCOTIA	SASKATCHEWAN	Havana CMBC 950 10000 CMBD 1260 500 CMBF 770 10000 CMBL 750 2500 CMBQ 680 5000 CMBS 1170 150 CMBX 1070 500 CMBY 970 150 CMBZ 1000 500 CMC 1260 150 CMCA 1350 450 CMCB 1230 150 CMCD 630 250 CMCF 810 600 CMCG 680 1000 CMCJ 1110 500 CMCK 1030 CMCL 730 10000 CMCM 850 CMCO 1200 250 CMCQ 1410 5000 CMCR 1380 CMCU 1290 500 CMCV 1140 500 CMCX 1380 150 CMCY 570 5000 CMK 720 3000 CMOA 1440 150 CMOX 1320 200 CMQ 600 25000 CMW 880 1400 CMX 920 1000 630 10000		MEXICO
Glace Bay VAS 685 2000 Halifax CHNS 930 1000 F Sydney CJCB 1240 1000 F Wolfville CKIC 1010 50 Yarmouth CJLS 1310 100	Quebec CHRC 580 100 CKCV 1310 100 F CRCK 950 1000 F Rimouski CJBR 1030 1000 F Sherbrooke CHLT 1210 100 Three Rivers CHLN 1420 100		AGUASCALIENTES	
ONTARIO	MOOSE JAW		Aguaascalientes XEBI 1000 25 XEXC 810 350	
Brantford CKPC 930 100 F Chatham CFCO 630 100 F Cobalt CKMC 1210 50 Fort William CKPR 730 100 F Hamilton CHML 1010 100 F CKOC 1120 500 F Kenora 1420 100 Kingston CFRC 1510 100 F London CFPL 730 100 F North Bay CFCH 930 100 F CJKL 1310 100 CKGB 1420 100 Ottawa CBO 880 1000 F CKCO 1010 100 F Owen Sound 1370 100 Prescott CFLC 930 100 St. Catharines CKTB 1200 100 F Sault Ste. Marie CJIC 1500 100 Stratford CJCS 1210 50 Sudbury CKSO 780 1000 F Toronto CBL 840 50000 F CFRB 690 10000 C CKCL 580 100 F CRCY 960 100 F	Moose Jaw CHAB 1200 100 F Prince Albert CKBI 1210 100 F Regina CJRM 540 1000 F CKCK 1010 1000 F Saskatoon CFQC 840 1000 F Yorkton CJGX 1390 100 F		BAJA CALIFORNIA	
	COSTA RICA	Holguin CMFK 1460 250 CMKO 1280 Manzanillo CMKM 1120 200 Matanzas CMGC 1400 150 CMGF 1120 250 CMGH 790 500 Moron CMJP 1430 75 Pinar del Rio CMAB 1340 Sagua la Grande CMHA 1070 50 Sancti Spiritus CMHB 1240 50 Santa Clara CMHI 1210 150 CMHW 820 100 Santiago CMKC 1250 150 CMKD 1050 250 CMKG 1160 CMKR 1400 100		Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Rosarito Beach XERB 730 10000 Tijuana XEAC 980 5000 XEBG 820 1000 XEC 1150 100 XELO 670 50000 XEMO 860 5000 XEOK 760 2500
	CUBA		CHIHUAHUA	
	Caibarien CMHD 1270 250 Camaguey CMJA 1010 300 CMJC 1390 150 CMJE 1220 50 CMJF 1150 200 CMJK 780 250 CMJL 1340 75 CMJX 830 500		Chihuahua XEFI 1440 250 Juarez XEFV 1210 100 XEF 1450 100 XEJ 1020 1000 XEP 1160 500 Parral XEAT 1210 250	
			COAHUILA	
			Piedras Negras XEMU 580 XEPN 730 100000 Sabinas XEBX 640 250 Saltillo XEAS 1160 50 XELA 1240 50 Torreon XETB 1310 125 Villa Acuna XERA 840 350000	
			D. F.	
			Atzacapotzalco XEMG 1060 100 Chapultepec XERO 670 Gra. Anaya XEDA 1220 200	

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Mexico City</p> <p>XEAL 660 1000 XEAY 1240 100 XEB 1030 10000 XEB5 1240 200 XEBZ 1160 100 XECW 1310 10 XEDP 1080 500 XEFO 930 5000 XEJP 1120 100 XEJW 870 XEK 990 100 XEL 1100 1000 XELZ 1370 100 XEMX 1280 100 XEN 780 1000 XENC 860 50 XEW 890 50000 XEZE 1270 17 XEXM 1280 XEYO 940 500</p> <p>Tacuba</p> <p>XEFA 1180 500</p> <hr/> <p style="text-align: center;">DURANGO</p> <hr/> <p>Durango</p> <p>XEE 1210 50</p> <hr/> <p style="text-align: center;">GUANAJUATO</p> <hr/> <p>Irapuato</p> <p>XEBO 1310 25</p>	<p>Leon</p> <p>XEKL 1240 500</p> <hr/> <p style="text-align: center;">JALISCO</p> <hr/> <p>Guadalajara</p> <p>XEAD 1060 125 XED 1160 2500</p> <p>Guzman</p> <p>XEBA 1080 20</p> <hr/> <p style="text-align: center;">MICHOACAN</p> <hr/> <p>Morelia</p> <p>XEI 1370 125</p> <hr/> <p style="text-align: center;">NUEVO LEON</p> <hr/> <p>Monterrey</p> <p>XEFB 870 200 XEFJ 1230 100 XEG 1220 250 XEH 720 250 XET 690 5000 XEX 1310 125</p> <hr/> <p style="text-align: center;">PUEBLA</p> <hr/> <p>Puebla</p> <p>XETH 1210 100</p>	<p style="text-align: center;">SAN LUIS POTOSI</p> <hr/> <p>San Luis Potosi</p> <p>XECZ 1370 100 XEXH 1250 250</p> <hr/> <p style="text-align: center;">SINALOA</p> <hr/> <p>Mazatlan</p> <p>XEBL 1220 50</p> <hr/> <p style="text-align: center;">SONORA</p> <hr/> <p>Hermosillo</p> <p>XEBH 930 500</p> <p>Nogales</p> <p>XEAF 990 750</p> <p>Obregon</p> <p>XEAP 1240 50</p> <hr/> <p style="text-align: center;">TAMAULIPAS</p> <hr/> <p>Matamoros</p> <p>XEAM 750 25</p> <p>Nuevo Laredo</p> <p>XEBK 1000 60 XEDF 810 100 XEFE 980 150 XENT 910 150000</p> <p>Reynosa</p> <p>XEAW 960 50000</p>	<p>Tampico</p> <p>XEFW 1310 250 XES 990 250</p> <hr/> <p style="text-align: center;">VERACRUZ</p> <hr/> <p>Cordoba</p> <p>XEAG 1310 10</p> <p>Jalapa</p> <p>XEXB 1270 50 XEXD 1340 350</p> <p>Minatitlan</p> <p>XEDW 1150 20</p> <p>Veracruz</p> <p>XETF 1220 30 XEU 1010 250</p> <hr/> <p style="text-align: center;">YUCATAN</p> <hr/> <p>Merida</p> <p>XEBJ 1160 20 XEFC 550 100 XEZ 630 500</p> <hr/> <p style="text-align: center;">NEWFOUNDLAND</p> <hr/> <p>St. John's</p> <p>VOAC 1065 40 VOAS 940 100 VOCM 1006 200 VOGY 840 400 VONF 1195 500 VOWR 681 500</p>
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NORTH AMERICAN B. C. STATIONS BY CALLS

<p>CBF 910 50000 Montreal, P. Q.</p> <p>CBL 840 50000 Toronto, Ont.</p> <p>CBM 1050 5000 Montreal, P. Q.</p> <p>CBO 880 1000 Ottawa, Ont.</p> <p>CBR 1100 5000 Vancouver, B. C.</p> <p>CBW 600 500 Windsor, Ont.</p> <p>CFAC 930 1000 Calgary, Alta.</p> <p>CFAR 1370 100 Fin Flon, Man.</p> <p>CFCF 600 500 Montreal, Que.</p> <p>CFCH 930 100 North Bay, Ont.</p> <p>CFCN 1030 10000 Calgary, Alta.</p> <p>CFCO 630 100 Chatham, Ont.</p> <p>CFCT 1450 500 Victoria, B. C.</p> <p>CFCY 630 1000 Charlottetown, P.E.I.</p> <p>CFGP 1200 100 Grande Prairie, Alta.</p> <p>CFJC 880 1000 Kamloops, B. C.</p> <p>CFLC 930 100 Prescott, Ont.</p>	<p>CFNB 550 500 Fredericton, N. B.</p> <p>CFPL 730 100 London, Ont.</p> <p>CFPR 580 50 Prince Rupert, B. C.</p> <p>CFQC 840 1000 Saskatoon, Sask.</p> <p>CFRB 690 10000 Toronto, Ont.</p> <p>CFRC 1510 100 Kingston, Ont.</p> <p>CFRN 960 100 Edmonton, Alta.</p> <p>CHAB 1200 100 Moose Jaw, Sask.</p> <p>CHCK 1310 50 Charlottetown, P.E.I.</p> <p>CHGS 1450 50 Summerside, P.E.I.</p> <p>CHLN 1420 100 Three Rivers, P. Q.</p> <p>CHLP 1120 100 Montreal, Que.</p> <p>CHLT 1210 100 Sherbrooke, P. Q.</p> <p>CHML 1010 100 Hamilton, Ont.</p> <p>CHNC 960 1000 New Carlisle, Que.</p> <p>CHNS 930 1000 Halifax, N. S.</p> <p>CHRC 580 100 Quebec, Que.</p>	<p>CHSJ 1120 500 St. John, N. B.</p> <p>CHWK 780 100 Chilliwack, B. C.</p> <p>CJAT 910 1000 Trill, B. C.</p> <p>CJBR 1030 1000 Rimouski, P. Q.</p> <p>CJCA 730 1000 Edmonton, Alta.</p> <p>CJCB 1240 1000 Sydney, N. S.</p> <p>CJ CJ 690 100 Calgary, Alta.</p> <p>CJCS 1210 50 Stratford, Ont.</p> <p>CJCU 1210 50 Aklavik, N. W. T.</p> <p>CJGX 1390 100 Yorkton, Sask.</p> <p>CJIC 1500 100 St. Ste. Marie, Ont.</p> <p>CJKL 1310 100 North Bay, Ont.</p> <p>CJLS 1310 100 Yarmouth, N. S.</p> <p>CJOC 950 100 Lethbridge, Alta.</p> <p>CJOR 600 500 Vancouver, B. C.</p> <p>CJRC 630 500 Winnipeg, Man.</p> <p>CJRM 540 1000 Regina, Sask.</p>
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NORTH AMERICAN B. C. STATIONS BY CALLS

CKAC 730 Montreal, Que.	5000	CMBY 970 Havana, Cuba	150	CMJF 1150 Camaguey, Cuba	200
CKBI 1210 Prince Albert, Sask.	100	CMBZ 1000 Havana, Cuba	500	CMJH 1360 Ciego de Avila, Cuba	50
CKCD 1010 Vancouver, B. C.	100	CMC 1260 Havana, Cuba	150	CMJI 1130 Ciego de Avila, Cuba	150
CKCH 1210 Hull, Que.	100	CMCA 1350 Havana, Cuba	450	CMJK 780 Camaguey, Cuba	250
CKCK 1010 Regina, Sask.	1000	CMCB 1230 Havana, Cuba	150	CMJL 1340 Camaguey, Cuba	75
CKCL 580 Toronto, Ont.	100	CMCD 630 Havana, Cuba	250	CMJO 1180 Ciego de Avila, Cuba	50
CKCO 1010 Ottawa, Ont.	100	CMCF 810 Havana, Cuba	600	CMJP 1430 Camaguey, Cuba	75
CKCR 1510 Waterloo, Ont.	100	CMCG 680 Havana, Cuba	1000	CMJX 830 Camaguey, Cuba	500
CKCV 1310 Quebec, Que.	100	CMCJ 1110 Havana, Cuba	500	CMK 720 Havana, Cuba	3000
CKCW 1370 Moncton, N. B.	100	CMCK 1030 Havana, Cuba	...	CMKC 1250 Santiago, Cuba	150
CKFC 1410 Vancouver, B. C.	50	CMCL 730 Havana, Cuba	10000	CMKD 1050 Santiago, Cuba	250
CKGB 1420 North Bay, Ont.	100	CMCM 850 Havana, Cuba	....	CMKF 1460 Holguin, Cuba	250
CKIC 1010 Wolfville, N. S.	50	CMCO 1200 Havana, Cuba	250	CMKG 1160 Santiago, Cuba	....
CKLW 1030 Windsor, Ont.	5000	CMCQ 1410 Havana, Cuba	5000	CMKM 1120 Manzanillo, Cuba	200
CKMC 1210 Cobalt, Ont.	50	CMCR 1380 Havana, Cuba	....	CMKO 1280 Holguin, Cuba	....
CKMO 1410 Vancouver, B. C.	100	CMCU 1290 Havana, Cuba	500	CMKR 1400 Santiago, Cuba	100
CKNX 1200 Wingham, Ont.	100	CMCW 1140 Havana, Cuba	500	CMKS 960 Guantanamo, Cuba	....
CKOC 1120 Hamilton, Ont.	500	CMCX 1380 Havana, Cuba	150	CMKW 1350 Santiago, Cuba	....
CKOV 630 Kelowna, B. C.	100	CMCY 570 Havana, Cuba	5000	CMKX 1190 Santiago, Cuba	....
CKPC 930 Brantford, Ont.	100	CMGC 1400 Matanzas, Cuba	150	CMOA 1440 Havana, Cuba	150
CKPR 730 Fort William, Ont.	100	CMGE 1370 Cardenas, Cuba	150	CMOX 1320 Havana, Cuba	200
CKSO 780 Sudbury, Ont.	1000	CMGF 1120 Matanzas, Cuba	250	CMQ 600 Havana, Cuba	25000
CKTB 1200 St. Catharines, Ont.	100	CMGH 790 Matanzas, Cuba	500	CMW 880 Havana, Cuba	1400
CKUA 580 Edmonton, Alta.	500	CMHA 1070 Sagua la Grande, Cuba	50	CMX 920 Havana, Cuba	1000
CKWX 1010 Vancouver, B. C.	100	CMHB 1240 Sancti Spiritus, Cuba	50	CRCK 950 Quebec, Que.	1000
CKX 1120 Brandon, Man.	1000	CMHD 1270 Caibarien, Cuba	250	CRCS 1120 Chicoutimi, Que.	100
CKY 910 Winnipeg, Man.	15000	CMHI 1210 Santa Clara, Cuba	150	CRCY 960 Toronto, Ont.	100
CMAB 1340 Pinar del Rio, Cuba		CMHJ 1160 Cienfuegos, Cuba	175	HIX 800 Trujillo, D. R.	700
CMBC 950 Havana, Cuba	10000	CMHK 1330 Cruces, Cuba	250	KABC 1420 San Antonio, Texas	100
CMBD 1260 Havana, Cuba	500	CMHM 1450 Cienfuegos, Cuba	100	KABR 1420 Aberdeen, S. Dak.	100
CMBF 770 Havana, Cuba	10000	CMHW 820 Santa Clara, Cuba	100	KADA 1200 Ada, Okla.	100
CMBL 750 Havana, Cuba	2500	CMHX 760 Cienfuegos, Cuba	200	KALB 1210 Alexandria, La.	100
CMBQ 680 Havana, Cuba	5000	CMJA 1010 Camaguey, Cuba	300	KALE 1300 Portland, Ore.	500
CMBS 1170 Havana, Cuba	150	CMJC 1390 Camaguey, Cuba	150	KAND 1310 Corsicana, Texas	100
CMBX 1070 Havana, Cuba	500	CMJE 1220 Camaguey, Cuba	50	KANS 1210 Wichita, Kans	100

NORTH AMERICAN B. C. STATIONS BY CALLS

KARK 890 Little Rock, Ark.	500	KFAM 1420 St. Cloud, Minn.	100	KFXD 1200 Nampa, Idaho	100
KARM 1310 Fresno, Calif.	100	KFBB 1280 Great Falls, Mont.	1000	KFXJ 1200 Grand Junction, Colo.	100
KASA 1210 Elk City, Okla.	100	KFBI 1050 Abilene, Kans.	5000	KFXM 1210 San Bernardino, Calif.	100
KASt 1370 Astoria, Ore.	100	KFBK 1490 Sacramento, Calif.	5000	KFXR 1310 Oklahoma City, Okla.	100
KATE 1420 Albert Lea, Minn.	250	KFDM 560 Beaumont, Texas	500	KFYO 1310 Lubbock, Texas	100
KAWM 1500 Gallup, N. Mex.	100	KFDY 780 Brookings, S. D.	1000	KFYR 550 Bismarck, N. D.	1000
KBIX 1500 Muskogee, Okla.	100	KFEL 920 Denver, Colo.	500	KGA 1470 Spokane, Wash.	5000
KBPS 1420 Portland, Ore.	100	KFEQ 680 St. Joseph, Mo.	2500	KGAR 1370 Tucson, Ariz.	100
KBST 1560 Big Spring, Texas	100	KFGQ 1370 Boone, Iowa	100	KGB 1330 San Diego, Calif.	1000
KBTM 1200 Jonesboro, Ark.	100	KFH 1300 Wichita, Kans.	1000	KGBU 900 Ketchikan, Alaska	500
KCKN 1310 Kansas City, Kans.	100	KFI 640 Los Angeles, Calif.	50000	KGBX 1230 Springfield, Mo.	500
KCMC 1420 Texarkana, Texas	100	KFIO 1120 Spokane, Wash.	100	KGCA 1270 Decorah, Iowa	100
KCMO 1370 Kansas City, Mo.	100	KFIZ 1420 Fond du Lac, Wis.	100	KGCI 1200 Coeur d'Alene, Idaho	100
KCRC 1360 Enid, Okla.	250	KFJB 1200 Marshalltown, Iowa	100	KGCU 1240 Mandan, N. D.	250
KCRJ 1310 Jerome, Ariz.	100	KFJI 1210 Klamath Falls, Ore.	100	KGCX 1450 Wolf Point, Mont.	1000
KDAL 1500 Duluth, Minn.	100	KFJM 1410 Grand Forks, N. D.	500	KGDE 1200 Fergus Falls, Minn.	100
KDB 1500 Santa Barbara, Calif.	100	KFJZ 1370 Fort Worth, Texas	100	KGDM 1100 Stockton, Calif.	1000
KDFN 1440 Casper, Wyo.	500	KFKA 880 Greeley, Colo.	500	KGDY 1340 Huron, S. D.	250
KDKA 980 Pittsburgh, Pa.	50000	KFKU 1220 Lawrence, Kans.	1000	KGEG 1200 Sterling, Colo.	100
KDLR 1210 Devils Lake, N. D.	100	KFNF 890 Shenandoah, Iowa	500	KGER 1360 Long Beach, Calif.	1000
 KDNC 1200 Lewistown, Mont.	100	KFOR 1210 Lincoln, Neb.	100	KGEZ 1310 Kalispell, Mont.	100
KDON 1210 Monterey, Calif.	100	KFOX 1250 Long Beach, Calif.	1000	KGFF 1420 Shawnee, Okla.	100
KDTH 1340 Dubuque, Iowa	500	KFPL 1310 Dublin, Texas	100	KGFI 1500 Brownsville, Tex.	100
KDYL 1290 Salt Lake City, Utah	3000	KFPW 1210 Fort Smith, Ark.	100	KGfJ 1200 Los Angeles, Calif.	100
KECA 1430 Los Angeles, Calif.	1000	KFPY 890 Spokane, Wash.	1000	KGFL 1370 Roswell, N. M.	100
KEEN 1370 Seattle, Wash.	100	KFQD 780 Anchorage, Alaska	250	KGFW 1310 Kearney, Neb.	100
KEHE 780 Los Angeles, Calif.	1000	KFRC 610 San Francisco, Calif.	1000	KGFX 630 Pierre, S. D.	200
KELA 1440 Centralia, Wash.	500	KFRQ 1370 Longview, Texas	250	KGGC 1420 San Francisco, Calif.	100
KELD 1370 El Dorado, Ark.	100	KFRU 630 Columbia, Mo.	500	KGGF 1010 Coffeyville, Kans.	1000
KELO 1200 Sioux Falls, S. Dak.	100	KFSd 600 San Diego, Calif.	1003	KGGM 1230 Albuquerque, N. M.	1000
KERN 1370 Bakersfield, Calif.	100	KFSG 1120 Los Angeles, Calif.	500	KGHF 1320 Pueblo, Colo.	500
KEUB 1420 Price, Utah	100	KFUO 550 St. Louis, Mo.	500	KGHI 1200 Little Rock, Ark.	100
KEX 1180 Portland, Ore.	5000	KFVD 1000 Los Angeles, Calif.	1000	KGHL 780 Billings, Mont.	1000
KFAB 770 Lincoln, Neb.	10000	KFVS 1210 Cape Girardeau, Mo.	100	KGIR 1340 Butte, Mont.	1000
KFAC 1300 Los Angeles, Calif.	1000	KFWB 950 Hollywood, Calif.	1000	KGIW 1420 Alamosa, Colo.	100

NORTH AMERICAN B. C. STATIONS BY CALLS

KGKB 1500 100 Tyler, Texas	KJR 970 5000 Seattle, Wash.	KOIN 940 1000 Portland, Ore.
KGKL 1370 100 San Angelo, Texas	KLAH 1210 100 Carlsbad, N. Mex.	KOKO 1370 100 La Junta, Colo.
KGKO 570 250 Wichita Falls, Texas	KLBM 1420 100 La Grande, Ore.	KOL 1270 1000 Seattle, Wash.
KGKY 1500 100 Scottsbluff, Neb.	KLCN 1290 100 Blytheville, Ark.	KOMA 1480 5000 Oklahoma City, Okla.
KGLO 1210 100 Mason City, Iowa	KLO 1400 500 Ogden, Utah	KOMO 920 1000 Seattle, Wash.
KGMB 1320 1000 Honolulu, T. H.	KLPM 1240 250 Minot, N. D.	KONO 1370 100 San Antonio, Texas
KGNC 1410 1000 Amarillo, Texas	KLRA 1390 1000 Little Rock, Ark.	KOOS 1200 100 Marshfield, Ore.
KGNF 1430 1000 North Platte, Neb.	KLS 1280 250 Oakland, Calif.	KORE 1420 100 Eugene, Ore.
KGNO 1340 250 Dodge City, Kans.	KLUF 1370 100 Galveston, Texas	KOTN 1500 100 Pine Bluff, Ark.
KGO 790 7500 San Francisco, Calif.	KLX 880 1000 Oakland, Calif.	KOVC 1500 100 Valley City, N. Dak.
KGU 750 2500 Honolulu, T. H.	KLZ 560 1000 Denver, Colo.	KOY 1390 1000 Phoenix, Ariz.
KGVL 1200 100 Greenville, Texas	KMA 930 1000 Shenandoah, Iowa	KPAC 1260 500 Port Arthur, Texas
KGVO 1260 1000 Missoula, Mont.	KMAC 1370 100 San Antonio, Texas	KPBM 1310 100 Poplar Bluff, Mo.
KGW 620 1000 Portland, Ore.	KMBC 950 1000 Kansas City, Mo.	KPDN 1310 100 Pampa, Texas
KGY 1210 100 Olympia, Wash.	KMED 1410 250 Medford, Ore.	KPFA 1210 100 Helena, Mont.
KHBC 1400 250 Hilo, T. H.	KMJ 580 1000 Fresno, Calif.	KPLC 1500 100 Lake Charles, La.
KHBG 1210 100 Okmulgee, Okla.	KMLB 1200 100 Monroe, La.	KPLT 1500 100 Paris, Texas
KHJ 900 1000 Los Angeles, Calif.	KMMJ 740 1000 Clay Center, Neb.	KPMC 1550 1000 Bakersfield, Calif.
KHQ 590 1000 Spokane, Wash.	KMO 1330 1000 Tacoma, Wash.	KPO 680 50000 San Francisco, Calif.
KHSL 1260 250 Chico, Calif.	KMOX 1090 50000 St. Louis, Mo.	KPOF 880 500 Denver, Colo.
KHUB 1310 250 Watsonville, Calif.	KMPC 710 500 Beverly Hills, Calif.	KPPC 1210 100 Pasadena, Calif.
KICA 1370 100 Clovis, N. M.	KMTR 570 1000 Los Angeles, Calif.	KPP 1500 100 Wenatchee, Wash.
KID 1320 500 Idaho Falls, Idaho	KNEL 1500 250 Brady, Texas	KPRC 920 1000 Houston, Texas
KIDO 1350 1000 Boise, Idaho	KNET 1420 100 Palestine, Texas	KQV 1380 500 Pittsburgh, Pa.
KIDW 1420 100 Lamar, Colo.	KNOW 1500 100 Austin, Texas	KQW 1010 1000 San Jose, Calif.
KIEM 1450 500 Eureka, Calif.	KNX 1050 50000 Los Angeles, Calif.	KRBA 1310 100 Lufkin, Texas
KIEV 850 250 Glendale, Calif.	KOA 830 50000 Denver, Colo.	KRBC 1420 100 Ablene, Texas
KINY 1310 100 Juneau, Alaska	KOAC 550 1000 Corvallis, Ore.	KRE 1370 100 Berkeley, Calif.
KIRO 710 1000 Seattle, Wash.	KOAM 790 1000 Pittsburg, Kans.	KRGV 1260 1000 Westaco, Texas
KIT 1250 250 Yakima, Wash.	KOB 1180 10000 Albuquerque, N. M.	KRIS 1330 500 Corpus Christi, Tex.
KIUL 1210 100 Garden City, Kans.	KOBH 1370 100 Rapid City, S. Dak.	KRKD 1120 500 Los Angeles, Calif.
KIUN 1420 100 Pecos, Texas	KOCA 1210 100 Kilgore, Texas	KRKO 1370 50 Everett, Wash.
KIUP 1370 100 Durango, Colo.	KOH 1380 500 Reno, Nev.	KRLC 1390 250 Lewiston, Idaho
KJBS 1070 500 San Francisco, Calif.	KOIL 1260 1000 Omaha, Neb.	KRLD 1040 10000 Dallas, Texas

NORTH AMERICAN B. C. STATIONS BY CALLS

KRLH 1420 100 Midland, Texas	KTMS 1220 500 Santa Barbara, Calif.	KWLC 1270 100 Decorah, Iowa
KRMC 1370 100 Jamestown, N. Dak.	KTOK 1370 100 Oklahoma City, Okla.	KWLK 780 250 Longview, Wash.
KRMD 1310 100 Shreveport, La.	KTRB 740 250 Modesto, Calif.	KWNO 1200 250 Winona, Minn.
KRRR 1500 100 Roseburg, Ore.	KTRH 1290 1000 Houston, Texas	KWOS 1310 100 Jefferson City, Mo.
KRNT 1320 1000 Des Moines, Iowa	KTRI 1420 100 Sioux City, Iowa	KWSC 1220 1000 Pullman, Wash.
KROC 1310 100 Rochester, Minn.	KTSA 550 1000 San Antonio, Texas	KWTN 1210 100 Watertown, S. Dak.
KROD 1500 100 El Paso, Texas	KTSM 1310 100 El Paso, Texas	KWTO 560 5000 Springfield, Mo.
KROW 930 1000 Oakland, Calif.	KTUL 1400 500 Tulsa, Okla.	KWYO 1370 100 Sheridan, Wyo.
KROY 1210 100 Sacramento, Calif.	KTW 1220 1000 Seattle, Wash.	KXA 760 250 Seattle, Wash.
KRQA 1310 100 Santa Fe, N. Mex.	KUJ 1370 100 Walla Walla, Wash.	KXBY 1530 1000 Kansas City, Mo.
KRRV 1310 250 Sherman, Texas	KUMA 1420 100 Yuma, Ariz.	KXL 1420 100 Portland, Ore.
KRSC 1120 250 Seattle, Wash.	KUOA 1260 5000 Siloam Springs, Ark.	KXO 1500 100 El Centro, Calif.
KSAC 580 500 Manhattan, Kans.	KUSD 890 500 Vermillion, S. Dak.	KXOK 1250 1000 St. Louis, Mo.
KSAL 1500 100 Salina, Kans.	KUTA 1500 100 Salt Lake City, Utah	KXRO 1310 100 Aberdeen, Wash.
KSCJ 1330 1000 Sioux City, Iowa	KVCV 1200 100 Redding, Calif.	KXYZ 1440 1000 Houston, Texas
KSD 550 1000 St. Louis, Mo.	KVEC 1200 250 San Luis Obispo, Cal.	KYA 1230 1000 San Francisco, Calif.
KSEI 900 250 Pocatello, Idaho	KVGB 1370 100 Great Bend, Kans.	KYOS 1040 250 Merced, Calif.
KSFO 560 1000 San Francisco, Calif.	KVI 570 1000 Tacoma, Wash.	KYW 1020 10000 Philadelphia, Pa.
KSL 1130 50000 Salt Lake City, Utah	KVOA 1260 1000 Tucson, Ariz.	TGW 1230 10000 Guatemala City, Guat.
KSLM 1370 100 Salem, Ore.	KVOD 920 500 Denver, Colo.	TGI 1510 Guatemala City, Guat.
KSO 1430 500 Des Moines, Iowa	KVOE 1500 100 Santa Ana, Calif.	TIEP 880 1000 San Jose, Costa Rica
KSOO 1110 2500 Sioux Falls, S. Dak.	KVOL 1310 100 Lafayette, La.	TIPG 625 2000 San Jose, Costa Rica
KSRO 1310 250 Santa Rosa, Calif.	KVOO 1140 25000 Tulsa, Okla.	TIX 650 San Jose, Costa Rica
KSTP 1460 10000 St. Paul, Minn.	KVOR 1270 1000 Colorado Springs, Colo.	VAS 685 2000 Glacé Bay, N. S.
KSUB 1310 100 Cedar City, Utah	KVOS 1200 100 Bellingham, Wash.	VOAC 1865 40 St. John's, Nfld.
KSUN 1200 100 Lowell, Ariz.	KVOX 1310 100 Moorhead, Minn.	VOAS 940 100 St. John's, Nfld.
KTAR 620 1000 Phoenix, Ariz.	KVRS 1370 100 Rock Springs, Wyo.	VOCM 1006 200 St. John's, Nfld.
KTAT 1240 1000 Fort Worth, Texas	KVSO 1210 100 Ardmore, Okla.	VOGY 840 400 St. John's, Nfld.
KTBC 1120 1000 Austin, Texas	KWBG 1420 100 Hutchinson, Kans.	VONF 1195 500 St. John's, Nfld.
KTBS 1450 1000 Shreveport, La.	KWEW 1500 100 Hobbs, N. Mex.	VOWR 681 500 St. John's, Nfld.
KTEM 1370 250 Temple, Texas	KWG 1200 100 Stockton, Calif.	WAAB 1410 500 Boston, Mass.
KTFI 1240 1000 Twin Falls, Idaho	KWJJ 1040 500 Portland, Ore.	WAAF 920 1000 Chicago, Ill.
KTHS 1060 10000 Hot Springs, Ark.	KWK 1350 1000 St. Louis, Mo.	WAAT 940 500 Jersey City, N. J.
KTKC 1190 250 Visalia, Calif.	KWKH 1100 10000 Shreveport, La.	WAAW 660 500 Omaha, Neb.

NORTH AMERICAN B. C. STATIONS BY CALLS

WABC 860 50000 New York, N. Y.	WBEN 900 1000 Buffalo, N. Y.	WCBM 1370 100 Baltimore, Md.
WABI 1200 100 Bangor, Maine	WBEO 1310 100 Marquette, Mich.	WCBS 1420 100 Springfield, Ill.
WABY 1370 100 Albany, N. Y.	WBHP 1200 100 Huntsville, Ala.	WCCO 810 50000 Minneapolis, Minn.
WACO 1420 100 Waco, Texas	WBIG 1440 1000 Greensboro, N. C.	WCFL 970 5000 Chicago, Ill.
WADC 1320 1000 Akron, Ohio	WBIL 1100 5000 New York, N. Y.	WCHS 580 500 Charleston, W. Va.
WAGA 1450 500 Atlanta, Ga.	WBLK 1370 100 Clarksburg, W. Va.	WCHV 1420 100 Charlottesville, Va.
WAGF 1370 258 Dothan, Ala.	WBLY 1210 100 Lima, Ohio	WCKY 1490 10000 Covington, Ky.
WAGM 1420 100 Presque Isle, Me.	WBNO 1200 100 New Orleans, La.	WCLE 610 500 Cleveland, Ohio
WAIM 1200 100 Anderson, S. C.	WBNS 1430 500 Columbus, Ohio	WCLO 1200 100 Janessville, Wis.
WAIR 1250 250 Winston-Salem, N. C.	WBNX 1350 1000 New York, N. Y.	WCLS 1310 100 Joliet, Ill.
WALA 1380 500 Mobile, Ala.	WBNY 1370 100 Buffalo, N. Y.	WCMI 1310 100 Ashland, Ky.
WALR 1210 100 Zanesville, Ohio	WBOQ 860 50000 New York, N. Y.	WCNW 1500 100 Brooklyn, N. Y.
WAML 1310 100 Laurel, Miss.	WBOW 1310 100 Terre Haute, Ind.	WCOA 1340 500 Pensacola, Fla.
WAPI 1140 5000 Birmingham, Ala.	WBRB 1210 100 Red Bank, N. J.	WCOC 880 500 Meridian, Miss.
WAPQ 1420 100 Chattanooga, Tenn.	WBRC 930 1000 Birmingham, Ala.	WCOL 1210 100 Columbus, Ohio
WARD 1400 500 Brooklyn, N. Y.	WBRE 1310 100 Wilkes-Barre, Pa.	WCOP 1120 500 Boston, Mass.
WASH 1270 500 Grand Rapids, Mich.	WBRK 1310 100 Pittsfield, Mass.	WCPO 1200 100 Cincinnati, Ohio
WATL 1370 100 Atlanta, Ga.	WBRY 1530 1000 Waterbury, Conn.	WCRW 1210 100 Chicago, Ill.
WATR 1190 100 Waterbury, Conn.	WBT 1080 50000 Charlotte, N. C.	WCSC 1369 500 Charleston, S. C.
WAVE 940 1000 Louisville, Ky.	WBTM 1370 100 Danville, Va.	WCSH 940 1000 Portland, Me.
WAWZ 1350 500 Zarephath, N. J.	WBZ 990 50000 Boston, Mass.	WDAA 1220 1000 Tampa, Fla.
WAYX 1200 100 Waycross, Ga.	WBZA 990 1000 Springfield, Mass.	WDAF 610 1000 Kansas City, Mo.
WAZL 1420 100 Hazleton, Pa.	WCAD 1220 500 Canton, N. Y.	WDAH 1310 100 El Paso, Texas
WBAA 890 500 West Lafayette, Ind.	WCAE 1220 1000 Pittsburgh, Pa.	WDAS 1370 100 Philadelphia, Pa.
WBAL 760 2500 Baltimore, Md.	WCAL 1250 1000 Northfield, Minn.	WDAY 940 1000 Fargo, N. Dak.
WBAL 1060 10000 Baltimore, Md.	WCAM 1280 500 Camden, N. J.	WDEJ 930 1000 Roanoke, Va.
WBAP 800 50000 Fort Worth, Texas	WCAO 600 500 Baltimore, Md.	WDBO 580 1000 Orlando, Fla.
WBAX 1210 100 Wilkes-Barre, Pa.	WCAP 1280 500 Asbury Park, N. J.	WDEL 1120 250 Wilmington, Del.
WBBC 1400 500 Brooklyn, N. Y.	WCAT 1200 100 Rapid City, S. Dak.	WDEV 550 500 Waterbury, Vt.
WBBL 1210 100 Richmond, Va.	WCAU 1170 50000 Philadelphia, Pa.	WDGY 1180 1000 Minneapolis, Minn.
WBMM 770 50000 Chicago, Ill.	WCAX 1200 100 Burlington, Vt.	WDNC 1500 100 Durham, N. C.
WBRR 1300 1000 Brooklyn, N. Y.	WCAZ 1070 100 Carthage, Ill.	WDOD 1280 1000 Chattanooga, Tenn.
WBZZ 1200 100 Ponca City, Okla.	WCBA 1440 500 Allentown, Pa.	WDRG 1330 1000 Hartford, Conn.
WBCM 1410 500 Bay City, Mich.	WCBD 1080 5000 Chicago, Ill.	WDSM 1200 100 Superior, Wis.

NORTH AMERICAN B. C. STATIONS BY CALLS

WDSU 1250 1000 New Orleans, La.	WFIL 560 1000 Philadelphia, Pa.	WHB 860 1000 Kansas City, Mo.
WDWS 1370 100 Champaign, Ill.	WFLA 620 1000 Clearwater, Fla.	WHBB 1500 100 Selma, Ala.
WDZ 1020 250 Tuscola, Ill.	WFMD 900 500 Frederick, Md.	WHBC 1200 100 Canton, Ohio
WEAF 660 50000 New York, N. Y.	WFOR 1370 100 Hattiesburg, Miss.	WHBF 1210 100 Rock Island, Ill.
WEAN 780 1000 Providence, R. I.	WFOY 1210 100 St. Augustine, Fla.	WHBI 1250 1000 Newark, N. J.
WEAU 1050 1000 Eau Claire, Wis.	WFTC 1200 100 Kinston, N. C.	WHBL 1300 250 Sheboygan, Wis.
WEBC 1290 1000 Duluth, Minn.	WGAL 1500 100 Lancaster, Pa.	WHBQ 1370 100 Memphis, Tenn.
WEBQ 1210 100 Harrisburg, Ill.	WGAN 640 500 Portland, Me.	WHBU 1210 100 Anderson, Ind.
WEBR 1310 100 Buffalo, N. Y.	WGAR 1450 500 Cleveland, Ohio	WHBY 1200 100 Green Bay, Wis.
WEDC 1210 100 Chicago, Ill.	WGAU 1310 100 Athens, Ga.	WHDF 1370 100 Calumet, Mich.
WEED 1420 100 Rocky Mount, N. C.	WGBB 1210 100 Freeport, N. Y.	WHDH 830 1000 Boston, Mass.
WEEL 590 1000 Boston, Mass.	WGBF 630 500 Evansville, Ind.	WHDL 1400 250 Olean, N. Y.
WEU 830 1000 Reading, Pa.	WGBI 880 500 Scranton, Pa.	WHEB 740 250 Portsmouth, N. H.
WELI 900 500 New Haven, Conn.	WGCM 1210 100 Gulfport, Miss.	WHEC 1430 500 Rochester, N. Y.
WELL 1420 100 Battle Creek, Mich.	WGES 1360 500 Chicago, Ill.	WHEF 1500 100 Kosciusko, Miss.
WEMP 1310 100 Milwaukee, Wis.	WGH 1310 100 Newport News, Va.	WHFC 1420 100 Cicero, Ill.
WENR 870 50000 Chicago, Ill.	WGL 1370 100 Fort Wayne, Ind.	WHIO 1260 1000 Dayton, Ohio
WEOA 1370 100 Evansville, Ind.	WGN 720 50000 Chicago, Ill.	WHIP 1480 5000 Hammond, Ind.
WESG 850 1000 Elmira, N. Y.	WGNV 1210 100 Newburgh, N. Y.	WHIS 1410 500 Bluesfield, W. Va.
WEST 1200 100 Easton, Pa.	WGPC 1420 100 Albany, Ga.	WHJB 620 250 Greensburg, Pa.
WEVD 1300 1000 New York, N. Y.	WGR 550 1000 Buffalo, N. Y.	WHK 1390 1000 Cleveland, Ohio
WEW 760 1000 St. Louis, Mo.	WGRC 1370 250 New Albany, Ind.	WHKC 640 500 Columbus, Ohio
WEXL 1310 50 Royal Oak, Mich.	WGRM 1210 100 Grenada, Miss.	WHLB 1370 100 Virginia, Minn.
WFAA 800 50000 Dallas, Texas	WGST 890 1000 Atlanta, Ga.	WHN 1010 1000 New York, N. Y.
WFAB 1300 1000 New York, N. Y.	WGTM 1310 100 Wilson, N. C.	WHO 1000 50000 Des Moines, Iowa
WFAM 1200 100 South Bend, Ind.	WGVA 1050 1000 Indianapolis, Ind.	WHOM 1450 250 Jersey City, N. J.
WFAS 1210 100 White Plains, N. Y.	WGY 790 50000 Schenectady, N. Y.	WHP 1430 500 Harrisburg, Pa.
WFBC 1300 1000 Greenville, S. C.	WHA 940 5000 Madison, Wis.	WIBA 1280 1000 Madison, Wis.
WFBG 1310 100 Altoona, Pa.	WHAI 1210 250 Greenfield, Mass.	WIBG 970 100 Glenside, Pa.
WFBL 1360 1000 Syracuse, N. Y.	WHAL 950 500 Saginaw, Mich.	WIBM 1370 100 Jackson, Mich.
WFBM 1230 1000 Indianapolis, Ind.	WHAM 1150 50000 Rochester, N. Y.	WIBU 1210 100 Poynette, Wis.
WFBR 1270 500 Baltimore, Md.	WHAS 820 50000 Louisville, Ky.	WIBW 580 1000 Topeka, Kans.
WFDF 1310 100 Flint, Mich.	WHAT 1310 100 Philadelphia, Pa.	WIBX 1200 100 Utica, N. Y.
WFEA 1340 500 Manchester, N. H.	WHAZ 1300 1000 Troy, N. Y.	WICA 940 250 Ashtabula, Ohio

NORTH AMERICAN B. C. STATIONS BY CALLS

WICC 600	500	WKAQ 1240	1000	WMAS 1420	100
Bridgeport, Conn.		San Juan, P. R.		Springfield, Mass.	
WIL 1200	100	WKAR 850	1000	WMAZ 1180	1000
St. Louis, Mo.		East Lansing, Mich.		Macon, Ga.	
WILL 580	1000	WKAT 1500	100	WMBC 1420	100
Urbana, Ill.		Miami Beach, Fla.		Detroit, Mich.	
WILM 1420	100	WKBB 1500	100	WMBD 1440	1000
Wilmington, Del.		East Dubuque, Ill.		Peoria, Ill.	
WIND 560	1000	WKBH 1380	1000	WMBF 610	1000
Gary, Ind.		LaCrosse, Wis.		Miami, Fla.	
WINS 1180	1000	WKBN 570	500	WMBG 1350	500
New York, N. Y.		Youngstown, Ohio		Richmond, Va.	
WIOD 610	1000	WKBO 1200	100	WMBH 1420	100
Miami, Fla.		Harrisburg, Pa.		Joplin, Mo.	
WIP 610	1000	WKBV 1500	100	WMBI 1080	5000
Philadelphia, Pa.		Richmond, Ind.		Chicago, Ill.	
WIRE 1400	1000	WKBW 1480	5000	WMOB 1310	100
Indianapolis, Ind.		Buffalo, N. Y.		Auburn, N. Y.	
WIS 560	1000	WKBZ 1500	100	WMOB 1500	100
Columbia, S. C.		Muskegon, Mich.		Brooklyn, N. Y.	
WISN 1120	250	WKBU 1500	100	WMBR 1370	100
Milwaukee, Wis.		Griffin, Ga.		Jacksonville, Fla.	
WJAC 1310	100	WKOK 1210	100	WMBB 1420	250
Johnstown, Pa.		Sunbury, Pa.		Uniontown, Pa.	
WJAG 1060	1000	WKRC 550	1000	WMC 780	1000
Norfolk, Neb.		Cincinnati, Ohio		Memphis, Tenn.	
WJAR 890	1000	WKY 900	1000	WMCB 570	1000
Providence, R. I.		Oklahoma City, Okla.		New York, N. Y.	
WJAS 1290	1000	WKZO 590	1000	WMEX 1500	100
Pittsburgh, Pa.		Kalamazoo, Mich.		Boston, Mass.	
WJAX 900	1000	WLAC 1470	5000	WMFD 1370	100
Jacksonville, Fla.		Nashville, Tenn.		Wilmington, N. C.	
WJBC 1200	100	WLAK 1310	100	WMFF 1310	100
Bloomington, Ill.		Lakeland, Fla.		Plattsburg, N. Y.	
WJBK 1500	100	WLAP 1420	100	WMFG 1210	100
Detroit, Mich.		Lexington, Ky.		Hibbing, Minn.	
WJBL 1200	100	WLAW 680	1000	WMFJ 1420	100
Decatur, Ill.		Lawrence, Mass.		Daytona Beach, Fla.	
WJBO 1120	500	WLB 1250	1000	WMFO 1370	100
Baton Rouge, La.		Minneapolis, Minn.		Decatur, Ala.	
WJBW 1200	100	WLBC 1310	100	WMFR 1200	100
New Orleans, La.		Muncie, Ind.		High Point, N. C.	
WJBY 1210	100	WLBI 900	5000	WMIN 1370	100
Gadsden, Ala.		Stevens Point, Wis.		St. Paul, Minn.	
WJDX 1270	1000	WLBZ 620	500	WMMN 890	500
Jackson, Miss.		Bangor, Me.		Farmont, W. Va.	
WJEJ 1210	50	WLEU 1420	100	WMPC 1200	100
Hagerstown, Md.		Erie, Pa.		Lapeer, Mich.	
WJIM 1210	100	WLLH 1370	100	WMPS 1430	500
Lansing, Mich.		Lawrence, Mass.		Memphis, Tenn.	
WJJD 1130	20000	WLLH 1370	100	WMSD 1420	100
Chicago, Ill.		Lowell, Mass.		Sheffield, Ala.	
WJMS 1420	100	WLMU 1210	100	WMT 600	1000
Ironwood, Mich.		Middlesboro, Ky.		Cedar Rapids, Iowa	
WJNO 1200	100	WLNH 1310	100	WNAC 1230	1000
W. Palm Beach, Fla.		Laconia, N. H.		Boston, Mass.	
WJR 750	50000	WLS 870	50000	WNAD 1010	1000
Detroit, Mich.		Chicago, Ill.		Norman, Okla.	
WJRD 1200	250	WLTH 1400	500	WNAX 570	1000
Tuscaloosa, Ala.		Brooklyn, N. Y.		Yankton, S. D.	
WJSV 1460	10000	WLVA 1200	100	WNBC 1380	250
Washington, D. C.		Lynchburg, Va.		New Britain, Conn.	
WJTN 1210	100	WLW 700	500000	WNBF 1500	100
Jamestown, N. Y.		Cincinnati, Ohio		Binghamton, N. Y.	
WJW 1210	100	WMAL 630	250	WNBH 1310	100
Akron, Ohio		Washington, D. C.		New Bedford, Mass.	
WJZ 760	50000	WMAQ 670	50000	WNBX 1260	500
New York, N. Y.		Chicago, Ill.		Springfield, Vt.	

NORTH AMERICAN B. C. STATIONS BY CALLS

WNBZ 1290 100	WPTF 680 1000	WSFA 1410 500
Saranac Lake, N. Y.	Raleigh, N. C.	Montgomery, Ala.
WNEL 1290 1000	WQAM 560 1000	WSGN 1310 100
San Juan, P. R.	Miami, Fla.	Birmingham, Ala.
WNEW 1250 1000	WQAN 880 500	WSIX 1210 100
New York, N. Y.	Scranton, Pa.	Nashville, Tenn.
WNLC 1500 100	WQBC 1360 1000	WSJS 1310 100
New London, Conn.	Vicksburg, Miss.	Winston-Salem, N. C.
WNNY 1420 100	WQDM 1390 1000	WSM 650 50000
Watertown, N. Y.	St. Albans, Vt.	Nashville, Tenn.
WNOX 1010 1000	WQXR 1550 1000	WSMB 1320 1000
Knoxville, Tenn.	New York, N. Y.	New Orleans, La.
WNYC 810 1000	WRAC 1370 100	WSMK 1380 200
New York, N. Y.	Williamsport, Pa.	Dayton, Ohio
WOAI 1190 50000	WRAP 1310 100	WSNJ 1210 100
San Antonio, Texas	Reading, Pa.	Bridgeton, N. J.
WOC 1370 100	WRBL 1200 100	WSOC 1210 100
Davenport, Iowa	Columbus, Ga.	Charlotte, N. C.
WOI 640 5000	WRC 950 500	WSPA 920 1000
Ames, Iowa	Washington, D. C.	Spartanburg, S. C.
WOKO 1430 500	WRDO 1370 100	WSPD 1340 1000
Albany, N. Y.	Augusta, Me.	Toledo, Ohio
WOL 1310 100	WRDW 1500 100	WSPR 1140 500
Washington, D. C.	Augusta, Ga.	Springfield, Mass.
WOLS 1200 100	WREC 600 1000	WSUI 880 500
Florence, S. C.	Memphis, Tenn.	Iowa City, Iowa
WOMI 1500 100	WREN 1220 1000	WSUN 620 1000
Owensboro, Ky.	Lawrence, Kans.	St. Petersburg, Fla.
WOMT 1210 100	WRGA 1500 100	WSVA 550 500
Manitowoc, Wis.	Rome, Ga.	Harrisonburg, Va.
WOOD 1270 500	WRJN 1370 100	WSVS 1370 50
Grand Rapids, Mich.	Racine, Wis.	Buffalo, N. Y.
WOPI 1500 100	WRNL 880 500	WSYB 1590 100
Bristol, Tenn.	Richmond, Va.	Rutland, Vt.
WOR 710 50000	WROK 1410 500	WSYR 570 1000
Newark, N. J.	Rockford, Ill.	Syracuse, N. Y.
WORC 1280 500	WROL 1310 100	WTAD 900 1000
Worcester, Mass.	Knoxville, Tenn.	Quincy, Ill.
WORK 1320 1000	WRR 1280 500	WTAG 580 1000
York, Pa.	Dallas, Texas	Worcester, Mass.
WORL 920 500	WRTD 1500 100	WTAL 1310 100
Boston, Mass.	Richmond, Va.	Tallahassee, Fla.
WOSU 570 750	WRUF 830 5000	WTAM 1070 50000
Columbus, Ohio	Gainesville, Fla.	Cleveland, Ohio
WOV 1130 1000	WRVA 1110 5000	WTAQ 1330 1000
New York, N. Y.	Richmond, Va.	Green Bay, Wis.
WOW 590 1000	WSAI 1330 1000	WTAR 780 1000
Omaha, Neb.	Cincinnati, Ohio	Norfolk, Va.
WOWO 1160 10000	WSAJ 1310 100	WTAW 1120 500
Fort Wayne, Ind.	Grove City, Pa.	College Station, Tex.
WPAD 1420 100	WSAL 1200 250	WTAX 1210 100
Paducah, Ky.	Salisbury, Md.	Springfield, Ill.
WPAR 1420 100	WSAN 1440 500	WTBO 800 250
Parkersburg, W. Va.	Allentown, Pa.	Cumberland, Md.
WPAX 1210 100	WSAR 1450 1000	WTCN 1250 1000
Thomasville, Ga.	Fall River, Mass.	Minneapolis, Minn.
WPAY 1370 100	WSAU 1370 100	WTEL 1310 100
Portsmouth, Ohio	Wausau, Wis.	Philadelphia, Pa.
WPEN 920 1000	WSAY 1210 100	WTHH 1200 100
Philadelphia, Pa.	Rochester, N. Y.	Hartford, Conn.
WPG 1100 5000	WSAZ 1190 1000	WTIC 1040 50000
Atlantic City, N. J.	Huntington, W. Va.	Hartford, Conn.
WPRA 1370 100	WSB 740 50000	WTJS 1310 100
Mayaguez, P. R.	Atlanta, Ga.	Jackson, Tenn.
WPRO 630 500	WSBC 1210 100	WTMJ 620 1000
Providence, R. I.	Chicago, Ill.	Milwaukee, Wis.
WPRP 1420 100	WSBT 1360 500	WTMV 1500 100
Ponce, P. R.	South Bend, Ind.	East St. Louis, Ill.

NORTH AMERICAN B. C. STATIONS BY CALLS

WTNJ 1280 Trenton, N. J.	500	XEBK 1000 Neuvo Laredo, Tams.	60	XELA 1240 Saltillo, Coah.	50
WTOC 1260 Savannah, Ga.	1000	XEBL 1220 Nazatlan, Sin.	50	XELO 670 Tijuana, B. Cta.	50000
WTOL 1200 Toledo, Ohio	100	XEBO 1310 Irapuato, Guan.	25	XELZ 1370 Mexico City, D.F.	100
WTRC 1310 Elkhart, Ind.	100	XEBS 1240 Mexico City, D. F.	200	XEMG 1060 Atzacapotzalco, D. F.	100
WVFW 1400 Brooklyn, N. Y.	500	XEBX 640 Sabinas, Coah.	250	XEMO 860 Tijuana, L. C.	5000
WWAE 1200 Hammond, Ind.	100	XEBZ 1160 Mexico City, D. F.	100	XEMU 580 Piedras Negras, Coah.	.....
WWJ 920 Detroit, Mich.	5000	XEC 1150 Tijuana, L. C.	100	XEMX 1280 Mexico City, D. F.	100
WWL 850 New Orleans, La.	10000	XECL 1100 Mexicall, B. Cta.	1700	XEN 780 Mexico City, D. F.	1000
WWNC 570 Asheville, N. C.	1000	XECW 1310 Mexico City, D. F.	10	XENC 860 Mexico City, D. F.	50
WWRL 1500 Woodside, N. Y.	100	XECZ 1370 San Luis Potosi, S.L.P.	100	XENT 910 Nuevo Laredo, Tams.	150000
WWSW 1500 Pittsburgh, Pa.	100	XED 1160 Guadalajara, Jal.	2500	XEOK 760 Tijuana, L. C.	2500
WWVA 1160 Wheeling, W. Va.	5000	XEDA 1220 Gra. Anaya, D. F.	200	XEP 1160 Juarez, Chih.	500
WXYZ 1240 Detroit, Mich.	1000	XEDF 810 Nuevo Laredo, Tams.	100	XEPN 730 Piedras Negras, Coah.	100000
W3XDD Whippany, N. J.	50000	XEDP 1080 Mexico City, D. F.	500	XERA 840 Villa Acuna, Coah.	350000
W3XJ 1060 College Park, Md.	100	XEDW 1150 Minatitlan, Ver.	20	XERB 730 Rosarito Beach, B. Cta.	100000
WSXO 700 Cincinnati, Ohio	500000	XEE 1210 Durango, Dgo.	50	XERO 670 Chapultepec, D. F.	.....
XEAA 750 Mexicall, B. C.	200	XEF 1450 Juarez, Chih.	100	XES 990 Tampico, Tams.	250
XEAC 980 Tijuana, L. C.	5000	XEFA 1180 Tacuba, D. F.	500	XET 690 Monterrey, N. L.	5000
XEAD 1060 Guadalajara, Jal.	125	XEFB 870 Monterrey, N. L.	200	XETB 1310 Torreon, Coah.	125
XEAF 990 Nogales, Son.	750	XEFC 550 Merida, Yuc.	100	XETF 1220 Veracruz, Ver.	30
XEAG 1310 Cordoba, Ver.	10	XEFE 980 Laredo, Tams.	150	XETH 1210 Puebla, Pue.	100
XEAL 660 Mexico City, D. F.	1000	XEFI 1440 Chihuahua, Chih.	250	XEU 1010 Veracruz, Ver.	250
XEAM 750 Matamoros, Tams.	25	XEFJ 1230 Monterrey, N. L.	100	XEW 890 Mexico City, D. F.	50000
XEAO 660 Mexicall, B. C.	250	XEFO 930 Mexico City, D. F.	5000	XEX 1310 Monterrey, N. L.	125
XEAP 1240 Oregon, Son.	50	XEFV 1210 Juarez, Chih.	100	XEXB 1270 Jalapa, Ver.	50
XEAS 1160 Saltillo, Coah.	50	XEFW 1310 Tampico, Tams.	250	XEXC 810 Aguascalientes, Ags.	350
XEAT 1210 Parral, Chih.	250	XEG 1220 Monterrey, N. L.	250	XEXD 1340 Jalapa, Ver.	350
XEAW 960 Reynosa, Tams.	50000	XEH 720 Monterrey, N. L.	250	XEXE 1270 Mexico City, D. F.	17
XEAY 1240 Mexico City, D. F.	100	XEI 1370 Morella, Mich.	125	XEXH 1250 San Luis Potosi, S.L.P.	250
XEB 1030 Mexico City, D. F.	10000	XEJ 1020 Juarez, Chih.	1000	XEXM 1280 Mexico City, D. F.	.....
XEBA 1080 Guzman, Jal.	20	XEJP 1120 Mexico City, D. F.	100	XEXS 1000 Portable In Mexico	100
XEBG 820 Tijuana, B. Cta.	1000	XEJW 870 Mexico City, D. F.	.....	XEYO 940 Mexico City, D. F.	500
XEBH 930 Hermosillo, Sonora	500	XEK 990 Mexico City, D. F.	100	XEZ 630 Merida, Yuc.	500
XEBI 1000 Aguascalientes, Ags.	25	XEKL 1240 Leon, Guan.	500	ZNS 540 Nassau, Bahamas	400
XEBJ 1160 Merida, Yuc.	20	XEL 1100 Mexico City, D. F.	1000	YSS 640 San Salvador, E. S.	.....

Special DX Calendar

THE time given in the DX Calendar following is in EST by the twenty-four hour clock.

DX Tips Periods

- Mon., 0300-0315, KMTR, 570 kcs.
1100-1115, WEEU, 830 kcs.
2115-2130, CJCJ, 690 kcs.
Mon., 2115-2130, CJCJ, 690 kcs.
Tues., 1835-1900, W2XAF, 9530 kcs.,
and W2XAD, 15330 kcs.
Wed., 0035-0045, KOY, 1390 kcs.
1345-1400, WTAR, 780 kcs.
Thurs., 0230-0245, KGMB, 1320 kcs.
Fri., 2330-2345, W8XK, 6140, and
KDKA, 980 kcs.
Sat., 0230-0245, KLS, 1280 kcs.
0300-0345, KDB, 1500 kcs.
1030-1045, WEEU, 830 kcs.

"Programs of the Week"

The IDA "Programs of the Week", broadcast each Sunday morning, are full-hour programs, full of surprises, thrills, and laughs. Don't miss any of them. (CHWK requires ten cents for a verification.)

Feb. 20, 0300-0400, KECA, Los An-

geles, Calif., 1430 kcs.

Feb. 27, 0330-0400, KGU, 750 kcs.

Mar. 6, 0300-0400, CHLN, 1420 kcs.

Mar. 13, 0300-0400, WCKY, 1490 kcs.

Mar. 27, 0300-0400, KFOR, 1210 kcs.

Special Broadcasts

Feb. 25, 0530-0600, WEAU, Eau Claire, Wis., 1050 kcs. (URDXC).

Feb. 27, 0300-0500, KWSC, Pullman, Wash., 1220 kcs. (URDXC).

Mar. 5, 0245-0400, CHWK, Chilliwack, B. C., 780 kcs. (UDXC).

Mar. 10, 0200-0600, CMHJ, Cienfuegos, Cuba, 1160 kcs. (E. Hidalgo).

Mar. 13, 0100-0300, XEDF, Nuevo Laredo, Tams., 810 kcs. (Arranged by A. J. Parfitt for RADEX, NRC, RN and UDXC).

Apr. 2, 0245-0400, CHWK, Chilliwack, B. C., 780 kcs. (UDXC).

May 7, 0245-0400, CHWK, Chilliwack, B. C., 780 kcs. (UDXC).

June 4, 0245-0400, CHWK, Chilliwack, B. C., 780 kcs. (UDXC).

Zenith Tour

(Continued from page 11)

ly morning hours no longer appeal to this writer. But it is easy to believe that, with weather and the intervening period of darkness just right, the "VKs" can be heard as well as Europeans. As for Asia, it is believed, also, that the 50 kilowatts "JZ" of Japan, can be picked up at the right time with some patient tuning. However, to date, the best catch on this set was from a tiny portable transmitter set up by an explorer in the jungles of Guiana, in South America, in conversation with his base camp. The power of the set is unknown, but the writer believes that its clear reception on 31 meters by a commercial all-wave set, is remarkable.

On the 20-meter amateur band, stations some distance away, such as on the Pacific coast and in South America, came in much better than nearby stations. This was to be expected, due to the skip effect. The 20-meter band is fairly alive when conditions are right, but the set is selective and much interference can be tuned out. Amateurs on the longer bands, 160, 80 and 40 meters, are heard without difficulty. The 49 meter Foreign band works quite well considering its poor reputation. On the police and aviation bands there is much to be heard all over the country. This receiver proved very satisfactory, and what few things there are to make the critical radio engineer unhappy are offset by its good behavior and excellent tone.

At DEADLINE . . .

Construction Permits for two new stations have been granted by the FCC. KYSM, 1500 kcs, for Mankato, Minn., will transmit on 1500 kcs, with 100 watts nights and 250 watts days.

Galesburg, Ill. will have a station on 1500 kcs., employing 250 watts daytimes.

TGW Guatemala City is reported now on 1520 kcs. by George Nahas and Norman Glover.

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