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THE MARCH 1938

RADIO INDEX

The All-wave Radio Log

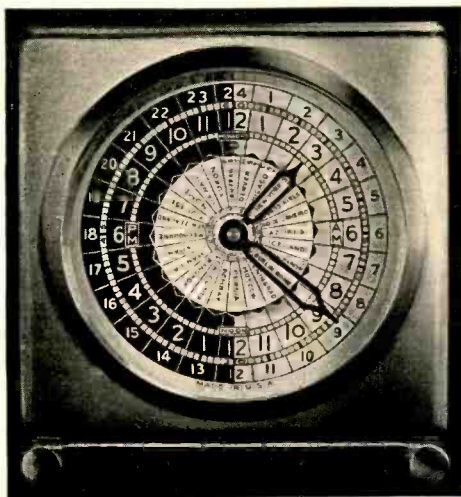


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Important Changes in Station Data

No. 117

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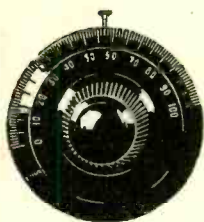
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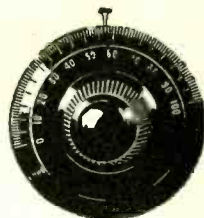
14717 Detroit Ave.,

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MARCH 1, 1938



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FOURTEENTH YEAR

NUMBER 117

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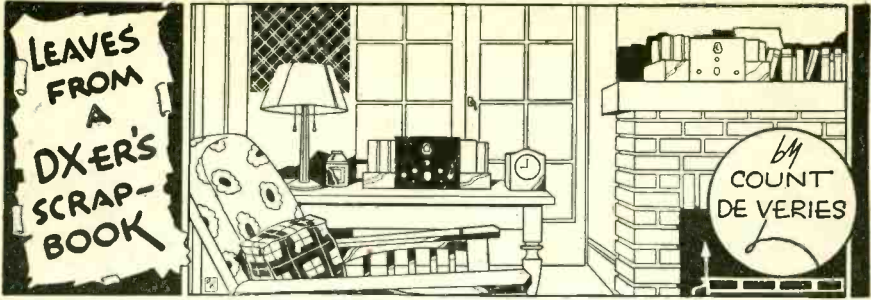
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OCCASIONALLY you hear some pretty funny things on the radio. A continuity writer may slip up on his word slinging, a speaker stammer over his script or an ad-libbing announcer talk too fast for his train of thought—and everyone will get a little chuckle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

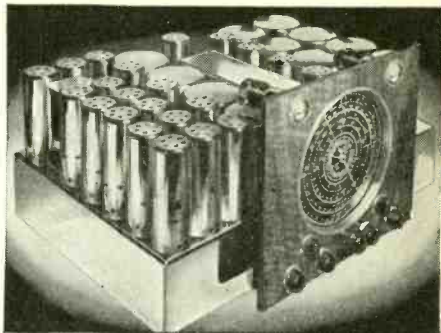
Just five years ago, for example, the cover of the March 1933 RADEX featured Jeannie Lang, who, at that time, was considered some punkins as a singer of pop songs. After a bit with Paul Whiteman in a picture and a short time as soloist for Jack Benny's orchestra, Jeannie had landed in the middle of a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

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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 Lillian 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 Nuremburg.

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 YVIRF 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, 8MB, CT: 1AY, 1QZ, 1QP, 2AB, CX: 2AR, 2 CY, EA9AH, EI2J, ES5B, ES5D, FB8AB, F18AC, 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, PAOZG PY2AC, SP1DC, SPIHH, SU1CH, SU1SG, VO1J, VO2Z, VP: 2AT, 2DA, 6TR, VQ1AJ, VQ4CRE, VS: 2AK, 7GJ, VU2CC, 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

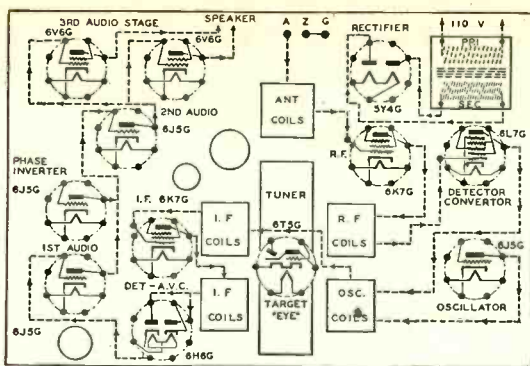
One of the outstanding features that has attracted most radio critics to the new Zenith is its robot dial or electric automatic tuner. By simply pressing the self-starter an electric motor is made to spin the needle across the dial to any station in just a second or two. There is no sound between stations, 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



ZENITH 12 TUBE 1938 RECEIVER - LAYOUT OF CHASSIS NO. 1204

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 McCarthey'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. XEDF¹ 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, CMCN, 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 meg. COCO, 6.010 meg, 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 pay 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 WPAY 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 WWAE 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 KFWB, 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, KFWB, 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 Lysbeth 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 Mackerel! 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 WBRY, 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, Wiar-ton, 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 10BI, 10AK, 10BP, 10BQ, 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 kcys, 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 CMMC Havana, Cuba
854 OAX4A Lima, Peru
880 CMW Havana, Cuba
882 YV5RQ Caracas, Venezuela
955 CMCB 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 Guatamala, City
1260 CMC Havana, Cuba
1350 CMCA Havana, Cuba
1410 CMCQ Havana, Cuba
1440 CMOA Havana, Cuba
1510 TG1 Guatamala 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-WIBW	6:00	1130-WJJD	6:45
590-WEEL	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-WNEW	****
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-KPNF	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 Kenosha 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 serviceman 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 fringing 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 Castilewood." 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.).

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

Netherland Antilles

PJCL, 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, Klipheuevel, 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 Klipheuevel 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); FBSAD (k); FBSAH (k); F18AC (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 (d/f/h); 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 (j/l); CMC (j); LKN (g); MTE (j); MZK (g); NZQ (g); OQE (e); VCK (g); K7FBE (j).

L

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

N-O-P

NY2AE (l); OA-: 4AL (a); 4R (a); OX2QY (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 (g); VK-: 2HS (j); 2JU (g); 2OB (g); 2VA (j); 3BZ (g); 3TW (g); VO-: 6D (b/f/h/k); 6J (ach); VP3THE (agk); VP-: 5CM (a); 6MR (af); 6TR (k); 9R (d); VQ1AB (k); VR4DC (k); VR4RC (k); VU2CQ (a); W1OXRA (k).

X

XE-: 1F (a); 1KY (g); 1LF (f); 2CY (g); 2EC (g); 2HB (g); 2HD (a); 2IY (g); 2JK (d); 2KM (l); XU8JR (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 lepta.

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, rachimen, 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 Daventry 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, Lüneburg, 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., Aliwal 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 shortwavers; 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.

"Laurenco 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

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 Cagado." 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.

The Stroud Twins

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 un-enthusiastic 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 Chataqua 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 5000
960	CMKS	880	CMW	Havana, Cuba, to 5000
1280	XEXM	880	WCOC	Meridian, Miss., to 1000
1310	WGAU	900	KGBU	Ketchikan, Alaska, to 1000
1500	KWEW	920	CMX	Havana, Cuba, to 10000
	REINSTATED	950	WRC	Washington, D. C., to 1000 (5)
780	XEN	1000	CMBZ	Havana, Cuba, to 5000
1250	KXOK	1110	CMCJ	Havana, Cuba, to 5000
1380	CMCR	1170	CMBS	Havana, Cuba, to 5000
1500	KUTA	1190	WATR	Waterbury, Conn., to 250
	FREQUENCY	1240	KLPM	Minot, N. Dak., to 500 (1)
630	CMCD	1250	WCAL	Northfield, Minn., to 5000
950	CMBC	1250	WLB	Minneapolis, Minn., to 5000
1100	XEL	1260	CMBD	Havana, Cuba, to 5000
1120	XEJP	1300	KALE	Portland, Ore., to 1000
1170	CMBS	1310	KINY	Juneau, Alaska, to 250
1260	CMBD	1310	WOL	Washington, D. C., to 1000
1290	CMCU	1340	WCOA	Pensacola, Fla., to 1000
	POWER	1350	CMCA	Havana, Cuba, to 5000
810	XEDF	1420	KABR	Aberdeen, S. Dak., to 500 (1)
1410	CMCQ	1430	WBNS	Columbus, Ohio, to 1000 (5)
	NETWORK	1490	KFBK	Sacramento, Calif., to 10000
840	CBL		PERMIT TO CHANGE LOCATION	
1210	KROY	570	KGKO	Wichita Falls, Tex., to Fort Worth
1310	KARM		FOREIGN BROADCAST	
1310	KTSM		NEW	
1310	WBRE	601	.....	Athens, Greece. 15000 w.
1310	WBRK	680	XGZ	Nanking, China. 10000 w.
1370	KGAR	1333	.....	Thessalonica, Greece.
	DELETE		FREQUENCY	
840	CRCT	560	XHHK	Shanghai, China, from 620
1110	CMCH	620	XLHB	Shanghai, China, from 560
	OWNER	720	XHHB	Shanghai, China, from 740
1210	CJCS	760	XMHD	Shanghai, China, from 840
	PERMIT TO CHANGE FREQUENCY	800	XLHA	Shanghai, China, from 780
1190	WATR	860	XLHG	Shanghai, China, from 640
1240	KLPM	860	2BH	Broken Hill, NSW, from 1060
1250	WCAL	880	4WK	Warwick, Qsid., from 1340
1250	WLB	890	XHHV	Shanghai, China, from 880
1310	KINY	970	XMHB	Shanghai, China, from 980
1310	WOL	1000	4CA	Cairns, Qsid., from 1390
1420	KABR	1080	XHHG	Shanghai, China, from 1020
	PERMIT TO CHANGE POWER	1470	3MB	Birchp, Vic., from 1490
570	CMCY		OWNER	
570	KGKO	1050	2CA	Canberra, FCT, Canberra Broadcasters, Ltd.
590	WKZO			

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.		WPG
Augusta, Ga.	(D)	WRDW
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)	WKBW
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
Fairmount, 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)	WMEG
Honolulu, Hawaii		KGMB
Houston, Texas	(SW)	KTRH
Indianapolis, Ind.		WFBN
Jacksonville, Fla.	(D)	WMBR
Kansas City, Mo.	(NW)	KMBC
Knoxville, Tenn.	(D)	WNOX
La Crosse, Wis.	(NW)	WKBH
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.		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)	WHEC
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
Scranton, 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
Tepeka, 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.		WVVA
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 KGDM 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

CKAC KLRA KMOX WABC WADC WAIM WALA WBIG WCHS WCOG WDAE WDBO WDRC WEET WESG WFBL WHIO WHP WIBX WJAS WJNO WKBW WLBZ WMAS WMBR WMIN WBNF WOKO WORC WPAR WPG WPRO WQAM WREC WRVA WSBT WJSJ

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
CKAC KLRA KMOX WABC WADC WAIM WALA WCHS WCOG WDAE WDBJ WDBO WEET WESG WFBL WFBM WHEC WHIO WIBX WJNO WJR WJSV WLBZ WMAS WMBR WMIN WBNF WOKO WORC WPAR WQAM WREC WWSA WWSA WJSJ WTCO

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 WFDM 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 KTSB KTUL KWKH WAHG WABC WADC WALA WBBM WBIG WBNS WBRC WBT WCAO WCAU WCCO WDCB WDOA WDOE WDRG WEET WFBL WGR WGST WHAS WHEC WHIO WHP WIBX WISN WJR WJSV WKBB WKBN WKRC WLAC WLBZ WMAS WMAZ

WMBD WMBR WMMN WMAX WBNF WNOX WOC WOKO WORC WPG WPRO WQAM WREC WRVA WWSA WWSJ WTCO WWL WWSA

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 KTSB KTUL KWKH WABC WADC WBBM WBNS WBRC WBT WCAO WCAU WCCO WDCB WDOE WDRG WEET WFBL WFBM WGST WHAS WHEC WHIO WISN WJAS WJR WJSV WKBB WKBW WKRC WLAC WLBZ WMBR WBNF 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 WFDM 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 KSPF 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 WBCO WCCO WCOG WDAE WDBJ WDOB WDOE WHEC WISN WJAS WJNO WJR WKBW WKBW WLBZ WMAS WMBR WOC WORC WPAR WQAM WREC WWSA WWSJ WTAQ WTCO WWSA

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 WBZA WEAN WEBR WFLA WHAM WIOD WJAX WJZ WLV WMAL WOOD WRTD WSD WWSN 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 KTSB KTUL WABC WADC WBBM WBNS WBRC WBT WCAO WCAU WCCO WDAE WDBO WDOE WDRG WEET 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 KFBK KEFL KFSD KGA KGO KJR KLO KNJ KOIL KSO KWG KWK KXYZ WABY WBAL WBZ WBAZ WCKY WOOL WEBR WFIL WHAM WJZ WMAL WMPB WMT WOWO WREN WSPD WSYR WTCN WXYZ

CBS—Tuesday only
KNX KFSO

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 WFDM 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 WLS WMAL WMT WOWO 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 KFI KGW KHQ KOA KOMO KPO KSD KSTP KYW WBBN WCAE WCSH WDAF WDEL WEAF WFBR WGY WIRE WJAR WLW WMAQ WNAC WTV WRC WTAG WTAM WTTW 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 KLV KNX KOIN KOL KSPF KSL KVI WFBM

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 KBAL 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

R — Poetic Melodies; Jack Fulton

WABC WADC WBT WCAO WCAU
WDRG WEAN WEEI WFBL WGR
WHEC WHK WJAS WJR WJSV
WKRC WOKO WSPD WTOG WWVA

R — Amos 'n' Andy

KSD KSTP KYW WBNB WCAE
WCSH WFAF WFBR WGY WHO
WJAR WLW WNAC 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 KGNC KPRC
KSTP KTHS KTHS KVOO KYW
WBAP WBNB WCAE WCKY WCOL
WCSH WDAF WDAY WFAF WFCB
WFAA WFRB WGBF WGY WHO
WIBA WJER WJAR WKY WMAQ
WNAC WOAI 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 WSM 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 WCCO WDRG
WEAN WFBL WGR WHAS WHK
WJAS WJR WJSV WKRC WNAC

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

R — Burns and Allen

CRCT KYW WBNB WCAE WSCS
WCSH WFAF WFBR WFLA WGY
WHO WIOD WIRE WIS WJAR
WJAX WLW WMAQ WNAC WPTF
WRC WRVA WSOC WTAG WTAM
WTAR WTIC WWJ

B — Melody Puzzles; Harry Salter

KANS KDKA KECA KERN KFKB
KFDM KFEL KFSD KGA KGHF
KGHL KGRG KGO KGW KIDO
KJR KLO KMJ KOB KOIL KRGV
KRIS KSO KTAR KTMS KTSN

KWG KWK KXYZ WABY WAGA
WBAL WBOW WBRE WBZ WBZA
WCKY WCOL WDSU WEAN WEBR
WFEA WFIL WGL WHAM WHK
WICC WJBO WJTN WJZ WLEU
WLS WMAL WMPJ WMT WORK
WREN WRDL WRFD 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 WBBM
WBT WCAO WCAU WDRG WEAN
WFBL WGR WGST WHEC WHK
WHP WICC WJAS WJR WJSV
WKRC WLBZ WMAS WNAC WOKO
WORC WSPD

R — Voice of Firestone

CFCF CRCT KFYR KPRC KSD
KSTP KTHS KVOO KYW WAVE
WBNB WCAE WSCS WOSH WDAF
WDAY WFAF WFCB WEEI WFAA
WFBC WFRB WFLA WGY WHO
WIBA WIOD WIRE WIS WJAR
WJAX WJDX WKY WMAQ WMC
WOAI WOW WPTF WRC WRVA
WBS WSM WSMB WSOC WTAG
WTAM WTAR WTIC WTMJ WWJ
WWNC

B — Campana's Grand Hotel

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

C — Lux Radio Theater

CFRB CKAC KFAB KFH KFPY
KLRA KLZ KMBC KMOX KNOW
KNX KOH KOIN KOL KOMA
KRLD KRNT KSFO KSL KTRH
KTSA KTUL KVI WABC WADC
WBMM WBNS WBRG WBT WCAO
WCCO WDAE WDBJ WDRG WEEI
WFBL WFBM WGAR WWSN WHAS
WHEC WHIO WIRX WISN WJAS
WJR WJSV WKBW WKRC WLAC
WMAS WMBD WNAX WOKO WORC
WPRO WQAM WREC WRVA WVL

Also on Canadian Network

R — Fibber McGee and Molly

KFYR KPRC KSD KSTP KTHS

KVOO KYW WAVE WBNB WCAE
WCOL WOSH WDAF WDAY WFAF
WFCB WFAA WFBR WFLA WGY
WHO WIBA WIOD WIRE WIS
WJAR WJAX WJDX WLW WMAQ
WMC WNAC WOAI WOOD WOW
WPTF WRC WSB WSM WSMB
WSOC WSUN WTAG WTAM WTAR
WTIC WTMJ WWJ WWNC

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
KGRG KGO KGW KHQ KOA KOMO
KPRC KSD KSTP KVOO KYW
WAVE WBNB WCAE WOSH WDAF
WFAF WFAA WFBR WFLA WGY
WHO WIBA WIOD WIRE WIS
WJAR WJAX WKY WLW WMAQ
WMC WNAC WOAI WOW 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
WBNB WCAE WOSH WDAF WFAF
WEEI WFBR WFLA WGY WHO
WIOD WIS WJAR WJAX WKY
WMAQ WMC WOAI WOW WPTF
WRC WRVA WSB WSM WTAG
WTAM WTAR WTIC WWJ WWNC
Also on Canadian Network

B — Warden Lewis E. Lawes

KDKA KECA KFSD KGA KGO
KJR KLO KOIL KSO KVOD 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 KFKB KFPY
KFRG KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRNT KSL KVI
KWG WAAB WABC WADC WBBM
WBNS WBT WCAO WCAU WCCO
WDRG WEAN WFBL WFBM WHAS
WHK WIBW 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 KFKB KFI KFYR
KFHX KQHL KGRG KGNC KGO
KGW KHQ KMJ KOA KOMO KPO

MONDAY (Continued)

KPRC KSD KSTP KTAR KTBS
KVOO KWG WAVE WDAF WDAY
WIBC WFAX WIBA WJDX WKY
WMC WOAI WOW WSB WSMW
WTMJ

M — The Lone Ranger

KDB KDON KFCB KFXM KGB
KQDM KHJ KPNC 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
KGIN KOL KMA KRLD KRNT
KSL KTRH KTSB KVI WBBM
WBRC WCCO WFBM WGST WLAC
WREX WWL

R — Amos 'n' Andy

KDYL KERN KFBK KFI KGW
KHQ KNJ KOA KOMO KPO KPRC
KSD KWG WDAF WFAX WHO
WIRE WKY WMAQ WMC WOAI
WOW WSB WSM WSMW

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

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

B — Lum and Abner

KECA KERN KEX KFBK KFSB
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 KFSO KSL KTUL
KVI KWKH WACO WBRC WCCO
WFBM WHAS WLAC WREX

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 WBAL
WBZ WBZA WCKY 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
KOMA KRLD KRNT KTRH KTSB
KWKH WABC WADC WBBM WBNS
WBT WCAO WCAU WCCO WCHS
WDAE WDBO WDDO WDRC WEEI
WFBL WGAR WGBT WIGT WHAS
WHFC WHIO WIBW WISN WJAS
WJR WJSV WKRC WLAC WMAS
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 KSFO
KSL KVI WABC WBBM WCAO
WCAU WDRC WEEI WFBL WGAR
WGR WHAS WHFC WHIO WJAS
WJR WJSV WKRC WOKO WORC
WPRO

B — Dorothy Thompson; News
WBAL WBZ 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 WEBC WFBM WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WNAC WOW WPTF WRC
WRVA WSB WSM WSMW WSOB
WSUN WTAG WTAM WTAR WTIC
WTMJ WJZ WWNC

C — Edward Robinson; Claire Trevor

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

B — Those We Love

KDKA KEEL KFI KFSB KGA KGO
KJR KLO KOIL KSO KWK WABY
WBAL WBZ WBZA WCKY WEAN
WEBR 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 CFCM KFAB KFH KLRA
KMBC KMOX KNOW KOMA KRLD
KRNT KTRH KTSB KTUL WABC
WADC WBBM WBNS WBRC WBT
WCAO WCAU WCCO WDAE WDBJ
WDRC WEEI WFBL WFBM WGAR
WGR WGST WHAS WHFC WHIO
WIBX WISN WJAS WJR WJSV
WKRC WLAC WMAS WMBD WNAX
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 WCKY WCSH WDAF WDAY
WEAF WEBC WEEI WFBM WGY
WHO WHIO WIBA WIRE WJAR
WJDX WKY WMAQ WMC WOAI
WOW WRC WSB WSM WSMW
WTAG WTAM WTIC WTMJ WJZ

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 CKA CFB KFH KGKO
KLRA KMBC KMOX KOMA KRLD
KRNT KSCJ KTRH KTSB KTUL
KWKH WABC WACO WADC WALA
WBBM WBIG WBNS WBRC WBT
WCAO WCAU WCCO WDAE WDBJ
WDBO WDNC WDDO WDRC WEAN
WFBL WFBM WFEA WGST WHAS
WHFC WHK WHF WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBH WKBN WKBW WKRC
WLAC WLBB WMAS WMBD WMBG
WMBR WMMN WNAC WNAX
WNBF WNOX WOC WOKO WORC
WOWO WPG WQAM WREC WSBT
WSFA WSJS WSPD WTOC WWL

R — Vox Pop; Sidewalk Interviews
KSD KYW WBEN WCAE WCKY
WCSH WDAF WEA WEEI WFBM
WGY WHO WIRE WJAR WMAQ
WOW WRC WTAG WTAM WTIC
WWJ

B — Horace Heidt Orchestra

KANS KDKA KFI KFSB KGA KGO
KGW KJR KLO KOIL KPRC KSO
KTHS KVOD KWK WAVE WBAL
WBAP WBZ WBZA WEAN WEBR
WFIL WFLA WHAM WHK WICC
WIOD WIS WJAX WJZ WJKY WLS
WLW WMAL WMC WMT WOAI
WPTF WREN WSB WSM WSMW
WSOC WSPD WSUN WSYR WTAR
WTCN WXYZ

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

R — Hollywood Mardi Gras
CPFC CRCT KDYL KFI KGHL
KGFV KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KTBS KVOE
KBY WAVE WBAP WEAN WCAE
WCOL WCSB WCSH WDAF WDEL
WEAF WEBC WFBM WFLA WGY
WHO WIBA WIOD WIRE WIS
WJAR WJAX WKY WMAQ WMBG
WMC WNAC WOAI WOOD WOW
WRC WSB WSM WSMW WSOB
WTAG WTAM WTAR WTIC WTMJ
WJZ

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 KSFO KSL KTRH
KTSB KTUL KVI KVOR KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCHS WDAE WDBJ
WDBO WDNC WDDO WDRC WEEI
WFBL WFBM WGAR WGST WHAS
WHFC WHIO WHF WIBW WIBX
WISN WJAS WJR WJSV WKBK
WKBN WKBW WKRC WLAC WLBB
WMAS WMHD WMBR WNAX
WNBF WNOX WOC WOKO WORC
WPG WPRO WQAM WREC WRVA
WSPD WSFA WSJS WTOC WWL

B — Gen. Hugh Johnson

KDKA KOIL KSO KWK WBAL
WBZ WBZA WCKY WEAN WEBR
WFIL WHAM WHK WICC WJZ
WLS WMAL WMT WOWO WREN
WSPD WSYR WTCN WXYZ

M — Eddie Duchin Orchestra

CKLW KALE KDB KDON KELA
KPRC KFXM KGA KGB KGY KHJ
KIEM KFI KMO KOL KORE KPNC
KPO KQW KRNR KSLM KVOE
KXOS KXO KYRO WGN WIP WLW
WNAC 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 WBEN
WCAE WCSH WDAF WEA WFBM
WGY WHO WJAR WLW WMAQ
WNAC WOOD WOW WRC WTAG
WTAM WTIC 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 WBEN WCAE
WCSH WDAF WDEL WEA WFBM
WGY WHO WIRE WJAR WLW
WMAQ WNAC WOW WRC WTAG
WTAM WTIC 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

KFBB KFPY KGVO KLZ KNX

KOH KOIN KOL KOY KSFO KSL

KVI KVOR

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 WDRG WEEI WFBL

WGAR WGBI WGR WHEC WHIO

WIBX WJAS WJR WJSV WKBN

WKRC WLWB WMAS WMBR WWO

WORC WPRO WQAM WRVA WWSA

R — Uncle Extra, 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 KFBB KFPY

KFRC KGB KHJ KLZ KMBC KMJ

KMOX KOIN KOL KRLD KRNT

KSL KVI KWG WABC WBBM

WBNS WCAU WCCO WDRG WEAN

WFBL WFBM WGR WHAS WHEC

WHK WJAS WJR WJSV WKRC

WLAC WMBG WNCB WOKO WTOC

WWL

R — One Man's Family

KDYL KFI KFYZ KGW KHQ KOA

KOMO KPO KPRC KSD KSTP

KTAR KTBS KTHS KVOO KYW

WAPI WAVE WBAP WBEN WCAE

WCSH WDAF WDAY WFAE WFLC

WEEI WFAA WFRB WFLA WGY

WHO WIBA WIOD WIS WJAR

WJAX WJDX WKY WLW WMAQ

WMC WOAI WOW WPTF WRC

WRVA WSB WSM WSMB WSOC

WSUN WTAC WTAM WTAR WTIC

WTMJ WWJ WWNC

Also on Canadian Network

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

C — Eddie Cantor; Deanna Durbin

CFRB CKAC KFAB KFH KFLA

KMBC KMOX KOMA KRLD KRNT

KSCJ KTRH KTSa KTUL KWKH

WABC WADC WBBM WBNS WBRC

WBT WCAO WCAU WCCO WDAE

WDBJ WDBO WDRG WEEI WFBL

WFBM WGR WGST WHAS WHEC

WHIO WHK WHP WIBW WIBX

WJAS WJR WJSV WKRC WLAC

WLWB WMAS WMBD WMBG

WMBR WNAX WNOX WOKO WORC

WOWO WPG WPRO WQAM WREC

WWL

B — Harriet Parsons

KDKA KECA KFEL KFSD KGA

KGO KJR KLO KOIL KSO KWK

WBAL WBZ WBZA WCKY WEAN

WEER 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 WBEN WBRC WCAE WCSH

WDAF WDEL WEAF WFAA WFLA

WFLA WGY WHO WIOD WIRE

WTS WJAR WJAX WKY WLW

WMAQ WMBG WMC WNAC WWO

WOW WPTF WRC WSB WSM

WSMB WSUN WTAC WTAM WTAR

WTIC WWJ WWNC

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

C — Chesterfield; Andre Kostelanetz

KDB KERN KFAB KFBB KFH

KFPY KFRC KGB KGKO KGMB

KHJ KLKA KLZ KMBC KMJ KMOX

KOH KOIN KOL KOMA KRLD

KRNT KSCJ KSL KTRH KTSa

KTUL KVI KVOR KWG KWKH

WABC WACO WADC WALA WBBM

WBIG WBNS WBRC WBT WCAO

WCAU WCCO WCOA WDAE WDBG

WDBO WDNC WDOD WDRG WEAN

WFBL WFBM WFEA WGST WHAS

WHEC WHK WHP WIBW WIBX

WICC WISN WJAS WJR WJSV

WKBB WKBW WKRC WLAC WLWB

WMBD WMBR WMBG WMBR

WNAC WNAX WNBW WNOX WOC

WOKO WORC WOWO WPG WQAM

WREC WRSF WSJS WSPD WTOC

WWL

R — Town Hall Tonight

KFYR KPRC KSD KSTP KTBS

KTHS KVOO KYW WAVE WBEN

WCAE WCSH WDAF WDAY WEAF

WECB WEEI WFAA WFRB WFLA

WGY WHO WIBA WIOD WIS WJAR

WJAX WJDX WKY WLW WMAQ

WMC WOAI WOW WPTF WRC WSB

WSM WSMB WSOC WTAC WTAM

WTAR WTIC WTMJ WWJ WWNC

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

C — Ben Bernie; Lew Lehr

KDAL KFAB KFBB KFH KFPY

KGAR KGKO KGLO KIRO KLRA

KLZ KMBC KMOX KNOW KNX

KOH KOIN KOMA KOY KRLD

KRNT KSCJ KFSO KSL KTRH

KTSa KTUL KVI KVOR KWKH

WABC WACO WALA WBBM WBIG

WBNS WBT WCAO WCAU WCCO

WCHS WCOA WCOE WDAE WDBJ

WDBO WDNC WDOD WDRG WEEI

WEOA WFBL WFBM WGAR WGBI

WGST WHAS WHEC WHIO WHB

WHP WIBW WIBX WISN WJAS

WJNO WJR WJSV WKBB WKBB

WKBW WKRC WLAC WLWB WMBD

WMBD WMBR WMBG WMMN

WNAX WNBW WNBX WNOX WOC

WOKO WORC WPG WPRO WQAM

WREC WRVA WSBT WFSF WSJS

WTAQ WTOC WWL

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

C — Crime Crusade; Phil Lord

KDB KERY KFAB KFBB KFH

KFPY KFRC KGB KHJ KLRA KLZ

KMBC KMJ KMOX KOIN KOL

KOMA KRLD KRNT KSL KTRH

KTSa KTUL KVI KWG KWKH

WABC WACO WBBM WBNS WBRC

WBT WCAO WCAU WCCO WDAE

WDBJ WDBO WDRG WEAN WFBL

WFBM WGST WHAS WHEC WHK

WICC WISN WJAS WJR WJSV

WKBW WKRC WLAC WLWB WMBG

WMBR WNAC WOKO WORC WOWO

WQAM WREC WTOC WWL

R — Your Hollywood Parade

KDYL KERN KFBB KFI KFYZ

KGXB KGHL KGIR KGNC KGU

KGW KHQ KIDO KMJ KOA KOB

KOMO KPO KPRC KSD KSTP

KTAR KTBS KTHS KWG KYW

WAPI WAVE WBEN WCAE WCSB

WCSH WDAF WDEL WEAF WEEB

WFAA WFBG WFRB WFEA WFLA

WGLW WGY WHO WIBA WIOD WIRE

WIS WJAR WJAX WJDX WKY

WLW WMAQ WMBG WMC WNAC

WOAI WOOD WOKO WOW WPTF

WRC WSB WSM WSMB WSOC

WSUN WTAC WTAM WTAR WTIC

WTMJ WWJ WWNC

B — Gen. Hugh Johnson, See Tues.

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

C — Hobby Lobby; Harry Salter

KDAL KFAB KFH KFPY KGKO

KIRO KLZ KMOX KNOW KNX

KOH KOIN KOMA KRLD KOY

KRNT KFSO KSL KTRH KTSa

KTUL KVI KWKH WALA WBBM

WBRC WCCO WCOE WFBM WGBT

WHAS WIBW WISN WLAC WMBD

WNBW WNOX WOC WREC WSBT

WFSF 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

KFBB KFPY KGVO KLZ KNX

KOH KOIN KOL KOY KSFO KSL

KVI KVOR

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

KRLD KRNT KSCJ KTRH KTSa

KTUL WABC WBBM WBNS WCAO

WCAU WCCO WDAE WDBO WDRG

WEEI WFBL WGAR WGR WHAS

WHEC WHIO WHP WIBX WISN

WJAS WJR WJSV WKRC WMBD

WMBR WOC WOKO WPRO WQAM

WREC WRSF WSJS WSPD WTOC

WTAQ WTOC WWL

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 KRLD KRNT KSCJ KTRH

KTSa KTUL KWKH WABC WACO

WADC WBBM WBNS WBRC WBT

THURSDAY (Continued)

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

R - Rudy Vallee's Variety Hour

CFBC CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KSD
KSPB KTAR KYW WBEN WCAE
WCBS WDAF WDAY WFAE WFCB
WEEI WFBM WGY WHO WJAR
WLW WMAQ WOW WRC WTAM
WTIC WTMJ WWJ

Also on Canadian Network

B - The March of Time

KDKA KECA KERN KFBC KFEL
KFSD KGA KGO KJR KLO KMJ
KOIL KSO KWG KWK KXYZ
WABY WAGA WBAL WBBZ WBSA
WCKY WCOP WCSB WDSU WEAN
WEBR WFIL WHAM WHK WICC
WJZ WIS WMAI WMPX WMT
WREN WSPD WSYR WXYZ

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

C - Major Bowes' Amateurs

CFBC CKAC KDB KERN KFAB
KFBC KFH KFPY KFRC KGB
KGKO KLRA KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRLD
KRNT KSCJ KSL KTRH KTSB
KTUL KVI KVOR KWG KWKH
WABC WAGO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDOD WDRC WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBW WJAX
WICC WISN WJAS WJR WJSV
WKNB WKRB WKRC WLAC WLWB
WMAS WMBD WMBG WMBR
WMNN WNAC WNAX WOC WOKO
WORC WOWO WPG WQAM WREC
WSFA WSJS WSPD WTOC WWL

R - MGM Program

CRCT KDYL KERN KFBC KFI
KFYR KGHM KGIR KGNC KGW
KMJ KOA KOMO KPO KPRC KSD
KSTP KTBS KWG KYW WAPI
WAVE WBAW WBEN WCAE WCBS
WDAF WDAY WECB WFBM 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 WNNC

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

R - Bob Burns; Bing Crosby

CFBC CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KTBS KTHS
KVOR KYW WAVE WBAW WBEN
WCAE WCBS WDAF WDAY WFAE
WFCB WEEI WFBM 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 WNNC

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 KFBC KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRNT
KSL KVI KWG WABC WBBM
WBNS WBRC WBT WCAO WCAU
WCCO WDRC WEAN WFBM WFBM
WFBM WGST WHAS WHK WJAS
WJR WJSV WKRC WMAS WMBG
WNAC WOKO WWL

R - Cities Service Concert

CRCT CFYR KOA KPRC KSD
KSTP KTBS KTHS KVOO KYW
WBAW WBEN WCAE WCBS WDAF
WDAY WFAE WFCB WEEI WFAA
WFBM WGY WHO WIBA WIOD
WJAR WKY WMAQ WOAI WOV
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 KRLD KRNT KSCJ
KTRH KTSB KTUL KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WCOA WDAE WDBJ WDBO
WDNC WDOD WDRC WEEI WFBL
WFBM WFEA WGR WGST WHAS
WHEC WHIO WHK WHP WIBW
WIBX WISN WJAS WJR WJSV
WKNB WKRC WLAC WLWB WMAS
WMBD WMBG WMBR WMNN
WNAX WNBC WNOX WOC WOKO
WORC WOWO WPG WPRO WQAM
WREC WSFA WSJS WSPD WTOC
WWL

B - Death Valley Days

KDKA KDYL KFI KGW KHQ KOIL
KOMO KPO KSO KWK WBAL WBBZ
WBSA WFIL WGAR WHAM WJZ
WLW WLW WMAI WMT WREN
WSYR WXYZ

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

C - Hollywood Hotel

CFBC CKAC KDB KERN KFAB
KFBC KFH KFPY KFRC KGB
KHJ KLRA KLZ KMBC KMJ KMOX
KOIN KOL KOMA KRLD KRNT
KSCJ KSL KTRH KTSB KTUL KVI
KVOR KWG KWKH WABC WADC
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDAE WDBJ WDBO
WDRC WEAN WFBM WFBM WFEA
WGST WHAS WHEC WHK WHP
WIBW WIBX WICC WJAS WJR

WJSV WKBW WKRC WLAC WLWB
WMAS 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 WCBS
WDAF WFAE WEEI WFBM 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 WCBS
WFAE WEEI WFBM 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 KFBC KFH KFPY
KGKO KGLO KGVO KRLA KLZ
KMOX KNOW KNX KOH KOIN
KOL KOMA KOY KRLD KRNT
KSCJ KSFO KSL KTRH KTSB
KTUL KVI KVOR KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WCHS WCOA WCOB WDAE
WDBJ WDBO WDNC WDOD WDRC
WEEI WFOA WFBM WFBM WGAR
WGY WGST WHAS WHC WHO
WHP WIBW WIBX WISN WJAS
WJNO WJR WJSV WKBW WKBW
WKRC WLAC WLWB WMAS WMBD
WMBR WMNN WNBC WNOX WOC
WOKO WORC WPAR WPG WPRO
WQAM WREC WRVA WSBT WSFA
WSJS WTOC WWL

CBC - Canada 1938

CBF CBI CBM CBO CBR CBW
CFAC CFBC CFCH CFCN CFCC
CFCC CFCC CFNC CFPL CFCQ
CHAB CHNS CHRC CHSJ CHWK
CJAT CJCA CJCB CJIC CJKL
CJOC CKBI CKCK CKCW CKGB
CKOV CKOC CKFR CKSO CKX
CKY

R - First Nighter; Drama

KDYL KFI KFYR KGW KHQ KOA
KOMO KPO KPRC KSD KSTP
KTBS KTHS KYW WAVE WBEN
WCAE WCBS WDAF WDAY WFAE
WFCB WEEI WFAA WFBM 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 WNNC

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 WBEN
WCAE WCBS WDAF WDEL WFAE
WFBM WGY WIBA WIRE WJAR
WLW WMAQ WNAC 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
WCBS WDAF WDEL WFAE WFBM
WGY WIRE WJAR WLW WMAQ
WNAC 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 Whiteinan; Deems Taylor
KFBB KFPY KGAR KGMB KGVO
KIRO KLZ KNX KOH KOIN KOY
KSFO KSL KVI KVOB

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

C — Northern Messenger

To Mideast 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 WBC WBZA WGY WHK
WJZ WMAQ

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

R — "Believe-It-or-not." Ripley

KANS KDYL KFYR KGNC KOA
KPRC KSD KSTP KYW WAPI
WAVE WBD WBEN WCAE WCHS
WDAF WDAY WDEL WFAE WFCB
WFBC WFRB WGY WHO WIBA
WIRE WJAR WKY WLW WMAQ
WMBG WNAC WMC WQAI 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 KFIH KMBC KMOX KRNT
WABC WADC WBBM WBIG WBNS
WBT WCAO WCAU WCCO WCOA
WDRG WEEI WFBL WFBM WGR
WGST WHAS WHEC WHIO WHK
WHP WISN WJAS WJR WJSV
WKRC WMBD WMBG WNBFB WOC
WOKO WPRO WSBT WVVVA

R — Jack Haley; Virginia Verrill

KDYL KGNC KOA KPRC KSD
KSTP KYW WAPI WAVE WBAP
WBEN WCAE WCHS WDAF WDEL
WFAE WFCB WFBC WFRB WGY
WHO WIBA WIRE WJAR WKY
WLW WMAQ WMBG WMC WNAC
WQAI WOW WPTF WRC WSB
WSMB 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 KFBK KFPY
KFBC KGH KHJ KLRA KLZ KMBC
KMJ KMOX KOIN KOL KOMA
KRLL KRNT KSL KTRH KTSa
KVI KWG WABC WBBM WBNS
WBT WCAO WCAU WCCO WDAE
WDBO WDRG 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 WHK WHAM WIOD WIRE
WIS WJAX WJDX WJZ WKY WLS
WMAL WMC WMT WQAI WOOD
WPTF WREN WRVA WSB WSBM
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 KFPY KGO KLRA
KLZ KMBC KMOX KNOW KNX
KOIN KOL KOMA KRLL KSFO
KTRH KTSa KTUL KVI KWKH
WALA WBBM WBIG WBNS WBRG
WBT WCAO WCAU WCOA WDAE
WDBO WDDO WEEI WFBL WFBM
WGAR WGST WHAS WHEC WJAS
WJR WJSV WKBW WLAC WMBD
WMBR WMNN WNOX WOC WQAM
WREC WRVA WSFA WTOC WWL
WVVVA

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

C — Your Hit Parade

KERN KFAB KFBK KFH KFPY
KFRG KGB KGKO KGMB KHJ
KLRA KLZ KMBC KMJ KMOX
KOH KOIN KOL KOMA KRLL
KRNT KSCJ KSL KTRH KTSa
KTUL KVI KVOB KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRG WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDDO WDRG WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBW WIBX
WIOC WISN WJAS WJR WJSV
WKBW WKRC WLAC WLWB WMAS
WMBD WMBG WMBR WNAC
WNAX WNOX WOC WOKO WORC
WPG WQAM WREC WSBT WSFA
WSJS WSPD WTOC WWL WVVVA

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 KFYR KGHL
KGR KGU KGW KHQ KOA KOMO
KPO KSTP KTA 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 KFPY KGVO KIRO KLZ
KNX KOIN KSFO KSL KVI KVOB

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

C — Professor Quiz

KFBB KFPY KIRO KNX KOH
KOIN KOY KSFO KSL KVI

R — "Believe-It-Or-Not" Ripley

KERN KFBK KFI KGW KHQ 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 KFBK KFBK
KFH KFPY KFRG KGB KGVO
KMBC KOH KOL KRLL KSL KTRH
KTSa KVI KVOB KWG KWKH
WABC WACO WADC WALA WBNS
WBRG WCAO WCCO WDAE WDBJ
WDBO WDNC WESG WFBL WFEA
WHAS WHK WIBX WJAS WJR
WKRC WLWB 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 KFBK KFBK KFH
KFPY KFRG KGB KLZ KOH KOL
KRLL KSL KTRH KTSa KVI KVOB
KWG WABC WACO WADC WALA
WBIG WBNS WBRG WCAO WCCO
WDAE WDBJ WDBO WESG WFBL
WFEA WGR WHAS WICC WJAS
WJR WKRC WLBC WMBR WMNN
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

KFBK KFH KFPY KFRG KGB
KHJ KMOX KOH KOL KOMA KRLL
KRNT KSCJ KSL KTRH KTSa KVI
KVOB KWG WABC WALA WBNS
WBT WCAO WCCO WDAE WDBJ
WDBO WDRG WESG WFBL WFBM
WGR WHAS WHP WIBX WJAS
WJSV WKBW WKRC WLAC WLWB
WMBR WNBFB WOC WOKO WORC
WPG WQAM WREC WSBT WSJS
WSPD WTOC WVVVA

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

a.m.

B — Magic Key of RCA

CFCF CRCT KDKA KDYL KFI
KFYR KGU KGW KHQ KOA KOIL
KOMO KPO KPRC KSO KSTP KTBS
KTHS KVOO KWK WAPI WAVE
WBAL WBZ WBZA WKY WDAY
WMBG WENR WFAA WFL WFLA
WGAR WHAM WHIO WIBA WIOD
WIRE WIS WJAX WJDX WJZ WKY
WMAL WMC WMT WQAI WPTF
WREN WRVA WSB WSM WSBM
WSOC WSYR WTAR WTMJ WWNC
WXYZ

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

C — Jean Hershot, "Dr. Christian."

CFRB KFAB KFH KMBC KMOX
KNOW KOMA KRLL KRNT KSCJ
KTRH KTSa KWKH WABC WADC
WBBM WBNS WBRG WBT WCAO
WCAU WCCO WCHS WDAE WDBO
WDRG WEEI WFBL WFBM WGAR
WGST WHAS WHEC WHIO WHP
WIBW WJAS WJR WJSV WKBW
WKRC WLAC WLWB 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 CKAC KFAB KFBK KFH
KGO KGVO KLA KLZ KMBC
KMOX KNOW KOL KRLL KSCJ
KSL KTRH KTSa KWKH WABC
WADC WALA WBNS WBT WCAO
WCCO WCHS WDAE WDBJ WDBO
WDRG WEEI WESG WFBL WFBM
WHAS WHK WHP WIBW WIBX
WJAS WJR WJSV WKBW WKBW
WKBW WKRC WLAC WLWB WMAS
WMBD WMBG WMBR WMNN
WNBFB WOC WOKO WORC WPAR
WPRO WQAM WSBT WSJS WTAQ
WTOC WWL

Also on Canadian Network

R — The Radio News Reel

KSD KSTP KYW WBEN WCAE

SUNDAY (Continued)

WCSH WDAF WDEL WFAF WFBR
WGY WHO WIRE WJAR WMAQ
WNAQ WQW 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 KRLL KRNT KFSO
KSL KTRH K TSA KTUL KVI
WABC WADC WBBM WBNS WCAO
WCAU WCCO WDAE WDRC WEEI
WGAR WGR WGST WHAS WHEC
WHIO WJAS WJR WJSV WKRC
WMBR WOKO WPRO WQAM WWL

R — Marion Talley
KDYL KFI KGW KHQ KOA KOMO
KPO KSTP KYW WBN WCAE
WCOL WCSH WDAF WDEL WFAE
WBCB WFBR WGY WHO WIBA
WIRE WJAR WMAQ WNAQ WOOD
WOW WWR WSAI WTAG WTAM
WTIC WTMJ WWJ

B — Metropolitan Opera Auditions
CFCF CRCT KARK KDKA KECA
KEX KFEL KFI KFSO KFYR KGA
KGIR KGNK KGO KGU KJR KLO
KOIL KPRC KSO KTBS KVOO
KWK WABY WAPI WAVE WBAL
WBAP WBZ WBZA WCKY WCSC
WDAY WEAN WEBR WENR WFIL
WFLA WHAM WHK WICC WJZ
WIS WJAX WJDX WJZ WKY WML
WMC WMT WOAI WOWO WPTF
WREN WRTD WSB WSM WSMB
WSOC WSPD WSUN WSYR WTA
WTCN WVMC 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 WFBL WFBM WGR
WHAS WHEC WHK WIBX WICC
WJR WJSV WMAZ WOKO WORC
WSPD WWVA

B — Smiling Ed McConnell
KANS KDKA KECA KERN KEX
KFBK KFSO KFYR KGA KGIR
KGO KJR KLO KMJ KOIL KSO
KTAR KWK KGW KWE WBAW
WBZ WBZA WCKY WCOL WDAY
WDSU WEAN WBCB WEBR WENR
WFIL WHAM WHK WICC WJZ
WML WMT WREN WRTD WSM
WSPD WSYR WTCN WXYZ

R — Mickey Mouse Theater
KANS KDYL KFI KGNK KGW
KHQ KOA KOMO KPO KPRC KSD
KSTP KVOO KYW WAVE WBAP
WBNB WBRB WCAE WCSH WDAF
WDEL WFAE WFCB WFBR WFLA
WGY WHO WIBA WIOD WIRE
WIS WJAR WJAX WKY WLW
WMAQ WMBG WMC WNAQ WOAI
WOOD WOV 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 KRLL KRNT KFSO KSL
KTRH K TSA KVI WABC WBBM
WBNS WBRB WBT WCAO WCAU
WCOO WDAE WDRC WEEI
WFBL WFBM WGAR WGST WHAS
WHEC WJAS WJR WJSV WKBW
WKRC WOKO WORC WPRO WQAM
WREC WRVA

M — George Jessel; Tommy Tucker
To entire MBS and Michigan Net-
works

E-6:30 p.m., C-5:30, M-4:30, P-3:30
C — Double Everything
CFRB CKAC KDAL KFAB KFH
KFYR KGAR KGMB KIRO KLRA
KLZ KMBC KMOX KNOW KNX
KOH KOMA KOY KRLL KRNT
KSCJ KSPC KSL KTRH K TSA
KTUL KVI WABC WADC WBBM
WBT WCAO WCAU WCCO WDAE
WDBO WDRC WEEI WFBL WFBM
WGAR WGST WHAS WHEC WHIO
WHLB WJAS WJNO WJR WJSV
WKBW WKRC WLAC WMBR
WMPG WNAQ WNOX WOKO WPRO
WQAM WREC WRVA WTCO WWL
WWVA

R — A Tale of Today
WBN WFAE 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
KRLL KRNT KFSO KSL KTRH
K TSA KTUL KVI KWKH WABC
WADC WBBM WBG WBRB WBT
WCAO WCAU WCCO WDRC WEEI
WFBL WFBM WGAR WGBI WGR
WGST WHAS WHEC WHIO WJAS
WJR WJSV WKRC WOKO WPRO
WREC WRVA WTCO WWL

R — Jack Benny; Mary Livingstone
KSD KYA KYW WBN WCAE
WCSH WDAF WFAE WFBZ WGY
WHO WJAR WLW WMAQ WNAQ
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 KRLL KTRH K TSA
KTUL KWKH WABC WACO WADC
WALA WBG WBNS WBRB WBT
WCAO WCAU WCOA WDAE WDBJ
WDBO WDNC WDDO WDRC WEAN
WFBL WFBM WFEA WGR WGST
WHAS WHEC WHK WHP WIBX
WIC WJAS WJR WJSV WKBW
WKRC WLAC WLBZ WMAZ WMBR
WNAQ WNOX WOKO WORC WQAM
WREC WSBT WSFA WWSJ WSMK
WSPD WTCO WWL WWVA

B — Ozzie Nelson; Harriet Hilliard
KARK KDKA KECA KFEL KEX
KFSO KFYR KGA KGO KJR KLO
KOIL KPRC KSO KSTP KTAR
KTBS KTHS KVOO KWK WABY
WAPI WAVE WBAL WBAP WBZ
WBZA WCKY WCOL WDAY WEAN
WBCB WEBR WFIL WFLA WHAM
WHK WIBA WICC WIOD WIS
WJAX WJDX WJZ WKY WLEU
WLS WML WMC WMT WOAI
WPTF WREN WRTD WSB WSM
WSMB WSOC WSUN WSYR WTA
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 KWOO
KYW WAVE WBN WCAE WCSH
WDAF WDAY WFAE WFCB WFAA
WFBZ WFLA WGY WHO WIBA
WIOD WIRE WIS WJAR WJAX
WJDX WKY WLW WMAQ WMC
WNAQ WOAI WOW WPTF WRC
WRVA WSE WSM WSMB WSOC
WSUN WTAG WTAM WTA WTCN
WTMJ WWJ WWNV
Also on Canadian Network

E-9:00 p.m., C-8:00, M-7:00, P-6:00
C — Ford Concert
CFRB CKAC KDB KERN KFB
KFBK KFH KFPY KFRC KGB
KGKO KHJ KLA KLZ KMBC
KMJ KMOX KOH KOIN KOL KOMA
KRLL KRNT KSCJ KSL KTRH
K TSA KTUL KVI KVOR KWG
KWKH WABC WACO WADC WALA
WBBM WBG WBNS WBRB WBT
WCAO WCAU WCCO WCOA WDAE
WDBJ WDBO WDNC WDDO WDRC
WEAN WFBL WFBM WFEA WGR
WGST WHAS WHEC WHK WHP
WIBW WIBX WICC WISN WJAS
WJR WJSV WKBW WKRC WLAC
WLBZ WMAZ WOKO WMBR WNAQ
WNAQ WOC WOC WORC WQAM
WREC WSBT WSFA WSJS WSPD
WTCO WWL WWVA

B — Tyrone Power; Drama
KDKA KECA KFSO KGA KGH
KGIR KGO KJR KLO KOIL KSO
KTAR KWK WBAL WBZ WBZA
WBCB WEBR WENR WFIL WGAR
WHAM WICC WJZ WLW WML
WMT WREN WSYR WXYZ

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

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 WBN WCAE WCSH WDAF
WDAY WFAE WFCB WEEI WFAA
WFBZ 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 WWNV

B — Walter Winchell
KDKA KECA KEX KFSO KGA
KGH KLZ KGO KJR KLO KOIL
KSO KTAR KWK WBAL WBZ
WBZA WENR WFIL WGAR WHAM
WJZ WLW WML 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-10:00 p.m., C-9:00, M-8:00, P-7:00

C — Zenith Foundation

KFAB KFPY KLRA KLZ KMBC
KMOX KNOW KNX KOIN KOL
KOMA KRLD KRNT KSFO
KSL KTRH K TSA KTUL KVI
WABC WBBM WBNS WBRC WBT
WCAU WCCO WDAE WDBO WDRC
WEEI WFBL WFBM WGAR WGST
WHAS WHEC 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 K TAR KTBS
KTHS KYW WAVE WBAP WBEN
WCAE WCFW 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 WSOC WTAG
WTAM WTAR W TIC 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
WBAW 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 KFSD

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 KFSD KGHL KGIR
KGW KHQ KOA KOMO KPO KPRC
KTAR KTBS KTHS 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 KFSD
KGHL KGBX 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
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
N. Y. Philharmonic, 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 Haenschen, 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

Jaques 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.,
 MBS
 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. Tues., 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., CBS
 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, 9:00 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, 8:00 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 Carlay, 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
 Allee 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 Kreeun, 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	CFCX	Montreal, P. Q. (.075). 0700-2400.
4.787	HJ2ABC	Cucuta, Colombia. (.25). "La Voz de Cucuta."		HP5K	Colon, Panama. 1800-2300.
4.810	YDE2	Soio, Java, N.E.I. (.1).		VE9DN	Montreal, P. Q. (.6).
4.840	HJ3ABD	Bogota, Colombia. 1930-2400. Apto. 508.		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	T15HH	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	HP5B	Panama City, Panama. (.1). 1700-2200.
5.800	YV5RC	Caracas, Venez. (1.). Sun., 0830-2130. Weekdays 0700-2200.		OLR2B	Prague, Czecho. (35.).
5.813	TIGPH2	San Jose, Costa Rica.		VE9BJ	St. John, N. B. (.05).
5.825	TIGPH	(also T1XGP3), 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	T1LS	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	HM2S	Port-au-Prince, Haiti. 1900-2200.	6.045	XETW	Tampico, Tams.
5.935	YV1RL	Maracaibo, Venez. (3). 1700-2230.	6.050	GSA	Daventry, Gt. 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	VQ71 O	Nairobi, Kenya. 1100-2430.
				W3XAU	Philadelphia, Pa. (10.). 2000-2300.
				W8XAL	Cincinnati, Ohio. (10.). Daily 2300-0200. Sun. 0800-2000. Weekdays 0900-2000.
			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	Maracaib, Venez. 1700-2300.
6.075	YV1RD	Maracaibo, Venez. 1900-2400.	6.310	HIZ	Trujillo, D. R. (.2).
	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	HI1X	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	Call, Colombia. 1900-2200.	6.380	YV5RF	Caracas, Venezuela.
6.090	CRXC	Toronto, Ont. (1.). 0745-1700.	6.383	VP2LO	St. Kitts, Brit. 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	HI1S	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.	6.450	HI4V	San Francisco de Macoris, D. R. (.025).
	.....	Belgrade, Jugoslavia. (1.). 1200-1700.	6.460	COCA	Havana, Cuba.
6.108	HJ4ABB	Manizales, Colombia. 1800-2400.	6.465	YV3RB	Barquisimeto, Venez. "La Voz de Lara."
6.110	GSL	London, Gt. Britain. (20.). 1800-2030; 2120-2320.	6.479	HI8A	Trujillo, D. R.
	VUC	Calcutta, India.	6.485	HI1L	Santiago de los Caballeros, D. R. "Emisora Nacional." 0630-0800; 1730-1900; 2000-2100.
6.115	OLR2C	Prague, Czechoslovakia. (35.).	6.479	HI8A	Trujillo, D. R.
6.118	XEUZ	Mexico City, D. F. (5.). 2300-0300.	6.500	HI1L	Trujillo, D. R. (.05).
6.120	W2XE	New York, N. Y. (10.).	6.508	YV1RM	Maracaibo, Venez.
	XEFT	Veracruz, Ver. (.012).		Radio Guardia Civil, Tetuan, Sp. Morocco. 1900-2000.	
	YDA5	Bandoeng, Java, N.E.I. (1.5).	6.520	YV4RB	Valencia, Venezuela. 1700-2200.
6.122	HJ3ABX	Bogota, Colombia. 1730-2230.	6.534	EDR4	Palma, Majorca, Balearic Isl.
	OAX6A	Arequipa, Peru. (1.).	6.540	YN1GG	Managua, Nicaragua.
6.125	CXA4	Montevideo, Uruguay. (1.). 1600-2145.	6.545	YV6RB	Bolivar, Venez. 2100-2300.
	HP5H	Panama City, Panama	6.550	TIRCC	San Jose, Costa Rica. (.5). Tues., Thurs., Sat. 1700-1800.
	KEPW	Mexico City, D. F. 2100-2400.	6.555	HI4D	Trujillo, D. R. (.025). 1700-2000.
6.128	OAX7A	Cuzco, Peru. (1.).	6.575	HC1VT	Ambato, Ecuador.
6.130	COCD	Havana, Cuba. (.35). 1700-0100	6.590	COCU	Havana, Cuba. Sun. 1900-2400; Weekdays 1900-0100.
	VE9HX	Halifax, N. S. (.5). 1700-2300.	6.622	Prado	Rio Bamba, Ecuador. Thur. 2100-2300.
6.132	VP3BG	Georgetown, British Guiana.	6.630	HIT	Trujillo, D. R. (.2). Weekdays, 1800-2100.
6.137	CR7AA	Lourenco Marques, Port. East Africa. Sun. 0600-0900. Weekdays 9500-0700.	6.635	HC2RL	Guayaquil, Ecuador. Sun. 1745-1945. Tues. 2115-2315.
6.138	HJ4ABD	Medellin, Colombia.	6.690	TIEP	San Jose, Costa Rica. 1600-2300.
6.140	W8XK	Pittsburgh, Pa. (40.). 2200-sign off.	6.700	TIVL	San Jose, Costa Rica.
6.145	HJ4ABE	Medellin, Colombia (1.). "La Voz de Antioquia." 1800-2230.	6.720	PMH	Bandoeng, Java, N.E.I. (1.5).
6.150	CJRO	Winnipeg, Man. (2.). 1800-2400.	6.730	HI3C	La Romana, D. R. 1745-2000.
	CSL	Lisbon, Portugal. 0700-0830; 1400-1900.	6.780	HIH	San Pedro de Macoris, D. R. (.15). 1900-2000.
	VPB	Colombo, Ceylon. (.3). Sun. 0700-1130; Weekdays 0630-1230.	6.800	HI7P	Trujillo, D. R. 1930-2100.
6.150	ZRD	Durban, U. S. Africa. (.01). Daily 2345-0045.		PZH	Panamaribo, Surinam.
6.153	HI5N	Ciudad Moca, D. R. (.1). 1900-2000.	6.850	T1OW	Puerto Limon, Costa Rica. (.4). Sun., 1600-1700. Daily 1200-1300.
6.156	YV5RD	Caracas, Venez. 1030-1330; 1530-2200.	6.990	VK8XI	Port Moresby, Papua. (Doubtful).
6.174	XEXA	Mexico City, D. F. 1700-2100.	7.000	.....	Amateur stations.
6.180	TG2	Guatemala City, Guatemala.	7.100	F08AA	Papeete, Tahiti. (.2). Tues., Fri., 2300-2400.
6.190	HI1A	Santiago de los Caballeros, D. R. (.05). Weekdays 2000-2200.		.....	Guadalajara, Jal. "Voice of the Revolutionary Party."
6.198	HI8Q	Trujillo, D. R. 1700-1900.	7.200	YNAM	Managua, Nicaragua. 2000-2400.
6.200	COKG	Santiago, Cuba. (.05). Daily exc. Sat. 0900-2300.	7.380	XECR	Mexico City, D. F. (20.). Sun., 1800-2000.
	XEXS	Mexico City, D. F.		.....	Radio Liberté. 1900-2000.
6.205	YV1RI	Coro, Venez. (.15). 1700-2200.	7.500	.....	Salamanca, Spain. "Radio Nacional".
6.225	YV1RG	Valera, Venez. 1730-1930.	7.540	RKI	Moscow, U. S. S. R. (Assigned 7520).
6.235	HRD	La Ceiba, Honduras. (.25). 2000-2300.	7.797	HBP	Geneva, Switz. (20.). Sat., 1730-1830.
6.243	HIN	Trujillo, D. R. (.75).	7.894	YSD	San Salvador, E. S. 2100-2230.
6.250	YV5RJ	Caracas, Venez.			
6.270	YV5RP	Caracas, Venez. (1.2).			
6.280	HIG	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	W10XA	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	COEZ	Havana, Cuba.	9.580	GSC	Daventry, 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	HPSJ	Panama City, Panama. (1.). 1830-2300.
9.450	HC20DA	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	CXA8	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	CR6AA	Lobito, Angola, Port. West Africa. (.5). Wed., Sat., 1445-1645.
9.501	PRF5	Rio de Janeiro, Brazil. (60.). 1645-1745.		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	Daventry, Gt. Britain. (20.). 0315-0530; 1220-1600; 1615-2030; 2120-2320.	9.685	TGWA	Guatemala City, Guat. (10.). "Radio Nacional." Sun. 2000-2200. Mon., Thur., 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. Paris, France. "Radio Liberte."	9.925	JDY	Darien, Manchukuo. 0715-0800.
9.523	ZRH	Pretoria, U. of S. Africa. (.5). Add: Box 4559, Johannesburg.	9.940	CSW	Lisbon, Portugal. (.5). 1300-2000.
9.525	ZBW3	Hong Kong. (2.5). Sat. 2100-2400. Sun. 0000-0100; 0300-0930. Other days 0400-1000; 2330-0100.	10.000	COBC	Havana, Cuba.
9.530	LKJ1	Jeloy, Norway. (1.). 0500-0800.	10.065	CQN	Macau, Portuguese China.
	W2XAF	Schonectady, N. Y. (40.). Sat. 1200-2400. Other days 1600-2400.	10.070	.....	Communicist Station.
	W6XBE	Belmont, Calif. (20.). General Elec. Co. (Under construction).	10.220	PSH	Rio de Janeiro, Brazil. (12.). 1900-2100.
9.535	JZ1	Nazaki, Japan. (50.). 1500-1600; 1630-1730.	10.260	PMN	Bandoeng, Java, N.E.I. (1.5). 0530-1100.
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.).			

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10.330	ORK	Brussels, Belgium. (1.). 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	Soerabaya 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.		XEWI	Mexico City, D. F. (.25), 1930-2400.
11.000	PLP	Bandoeng, Java, N.E.I. (1.5).	11.955	IUC	Addis Ababa, Ethiopia.
11.040	CSW	Lisbon, Portugal. (5.). 1800-2000.	11.960	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). Apto. 124. At 1645 and 1900.
11.730	PHI	Hilversum, Netherlands. (23.6).	14.400	UPOL	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.		GSO	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. 0900-1030.
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.).
15.260	GSI	Daventry, Gt. Britain.			W9XAA Chicago, Ill. (5.).
15.270	HIBX 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.	17.785 17.790	JZL GSG	Chicago, Ill. (10.). Tokyo, Japan. Daventry, Gt. Britain. (15.). 0315-0530; 0545-1200; 1220-1600.
15.280	DJQ	Berlin, Germany. (50.). Sun. 1110-1225. Daily 0005-0545; 0600-0800; 0815-1100; 1650-2245.	17.800 19.020	TGWA HS8PJ	Guatemala City, Guat. (10.). Bangkok, Siam. (5.). Mon. 0800-1000.
15.290	LRU	Buenos Aires, Arg. (5.). 0800-1000.	21.450	OLR6A	Prague, Czecho. (35.).
15.300	XEBM	Mazatlan, Sin. 1000-2300.	21.460	W1XAL	Boston, Mass. (10.). Tests irregularly.
15.310	GSP	Daventry, Gt. Britain. 1345-1600.	21.470	GSH	Daventry, Gt. Britain. 0545-0855; 0855-1200.
15.320	OLR5B	Prague, Czecho. (35.).	21.480	W2XAD	Schenectady, N. Y. (25.).
15.330	W2XAD W9XBE	Schenectady, N. Y. (25.). 1100-2100. Belmont, Calif. (20.). (Under construction).	21.520	W2XE W3XAU	New York, N. Y. (10.). Sat., Sun., 0800-1300; Other days 0730-1000. 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	Tuinlicu, Cuba. (2.).	25.950	W4XH W6XKG	Spartanburg, S. C. (.05) (WSPA). Los Angeles, Calif. (.1) (KGFJ). 24 hours daily.
17.310	W1XL	Bound Brook, N. J. (20.).		W9XUP	St. Paul, Minn. (1.) (KSTP).
17.375	LSY	Buenos Aires, Arg. Fri. 1600-1700.	26.100	GSK W9XJL	Daventry, Gt. Britain. Superior, Wis. (.08) (WEBC).
17.760	DJE W2XE	Berlin, Germany. (50.). Sun. 1110-1225. Daily 0005-1000. New York, N. Y. (10.). 1830-2000.	26.400	W9XAZ	Milwaukee, Wis. (.5) (WTMJ). 1300-2400.
17.770	PHI	Hilversum, Netherlands. (23.6). Sun., 0725-1025. Mon., Tues., Thurs., Fri., 0825-1000. Sat., 0825-1040.	26.550 27.100	W2XQO W10XDA	Flushing, N. Y. (.1) (WMCA). Effie M. Morrissey (.1).
17.780	W3XAL	Bound Brook, N. J. (35.). 0900-1740; 1800-2100.	28.000 to 60.000		Amateurs.
			56.000 to infinity.		Amateurs.

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.

<p>Second Column Symbols</p> <p>a Verifies reception for return postage.</p> <p>b Verifies only occasionally.</p> <p>c Does not verify.</p> <p>d Verification 10c; letter 25c.</p> <p>h Sends own station stamp for 10c.</p> <p>i Sends own station stamp for 5c.</p> <p>j Sends own station stamp for postage.</p> <p>k Has no stamps.</p> <p>m Verifies for 5c.</p>	<p>n Weather or time only.</p> <p>z No information available.</p> <p>Fourth Column Symbols</p> <p>B National "Blue" network.</p> <p>C Columbia network.</p> <p>D Day time only.</p> <p>Dn Day time with occasional evening hours.</p> <p>F Canadian Brdctg. Corp.</p> <p>M Mutual Brdctg. Sys.</p> <p>N National "Red" and "Blue" networks.</p> <p>P Has construction permit only.</p>	<p>R National "Red" network.</p> <p>S Sunday only.</p> <p>Sy Synchronized.</p> <p>X Has permit to increase power.</p> <p>Y Has permit to change location.</p> <p>Z Has permit to change frequency.</p> <p>a-b-c. Small letters show stations using same transmitter.</p> <p>1-2-3. Figures denote stations sharing time.</p> <p>.... No information.</p>
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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.	
KSFO	ak	1000	C (5)	San Francisco, Cal.	-10:00 am-4:00 am
KWTO	ak	5000	D	Springfield, Mo.	-6:00 am-....
WFIL	ak	1000	BM	Philadelphia, Pa.	-7:00 am-midnight
WIND	ak	1000	(5)	Gary, Ind.	-6:00 am-4:00 am
WIS	ak	1000	N (5)	Columbia, S. C.	-7:00 am-midnight
WQAM	ak	1000	C	Miami, Fla.	-6:00 am-midnight

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	1 (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

KSAC	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
XEMU	z	.....	.....	Piedras Negras, Coah.	

590 kcys. (508.2)

KHQ	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 kcys. (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	
-KFSB	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 kcys. (491.5)

KFRC	c	1000	M (5)	San Francisco, Cal.	
-WGLE	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 kcys. (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	
-WSUN	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 kcys. (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.	
-WGBF	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 kcys. (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 kcys. (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)

WMAO	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)

CMBO	z	5000	P	Havana, Cuba	
CMCG	ak	1000	.....	Havana, Cuba	-7:00 am—midnight
KFEO	ak	2500	D	St. Joseph, Mo.	-7:00 am—ss
KPO	ak	50000	R	San Francisco, Cal.	-11:00 am—3:00 am
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
CJCT	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. O.	-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 kcys. (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 kcys. (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 kcys. (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 kcys. (374.8)

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

810 kcys. (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 kcys. (365.6)

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

830 kcys. (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 kcys. (356.9)

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

850 kcys. (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

W KAR	ak 1000	D	E. Lansing, Mich.	-7:00 am-5:00 pm
W WL	ak 10000	CX	New Orleans, La.	-6:30 am-1:00 am

860 kcys. (348.6)

W A	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)

W ENR	ak 50000	Ba	Chicago, Ill.	-Noon-midnight
W LS	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)

C BO	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	2	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.	
W GBI	ak 500	CI (1)	Scranton, Pa.	-12:30 pm-10:30 pm
W QAN	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)

K ARK	ak 500	N (1)	Little Rock, Ark.	-7:00 am-1:00 am
KFNF	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
W GST	ak 1000	C (5)	Atlanta, Ga.	
W JAR	ak 1000	R (5)	Providence, R. I.	-7:30 am-1:00 am
W MMN	ak 500	C (1)	Fairmont, W. Va.	-7:00 am-1:00 am
X EW	ak 50000	....	Mexico City, D. F.	

900 kcys. (333.1)

K GBU	ak 500	X	Ketchikan, Alaska	-....-4:00 am
KHJ	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
W BEN	ak 1000	R (5)	Buffalo, N. Y.	-6:00 am-ss
WELI	ak 500	D	New Haven, Conn.	-6:30 am-ss
W FMD	ak 500	D	Frederick, Md.	-6:45 am-1:00 am
W JAX	ak 1000	N (5)	Jacksonville, Fla.	-7:45 am-1:00 am
W KY	ak 1000	N (5)	Oklahoma City, Ok.	-9:00 am-2:00 pm
W LBL	ak 5000	D	Stevens Point, Wis.	-8:00 am-5:45 pm
WTAD	ak 1000	D	Quincy, Ill.	

910 kcys. (329.6)

C BF	z 50000	FN	Montreal, P. O.	-....-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
X ENT	ak 150000	....	Nuevo Laredo, Tams.	

920 kcys. (325.9)

C MX	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.	
K PRC	ak 1000	R (5)	Houston, Texas	
KVOD	ak 500	Ba	Denver, Colo.	
WAAF	ak 1000	D	Chicago, Ill.	-6:00 am-ss
W ORL	ak 500	D	Boston, Mass.	
W PEN	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.	
CFCL	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
←CMCB	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. Q.	—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
KFVD	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 keys. (296.9)

CHML	ak 100	F	Hamilton, Ont.	-8:00 am-midnight
CKCD	ak 100	1	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
CKIK	ak 50	.....	Wolfville, N. S.	
CKWX	ak 100	1	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 keys. (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 keys. (291.1)

CFCN	ak 10000	F	Calgary, Alta.	-9:00 am-1:30 am
CJBR	z 1000	F	Rimouski, P. Q.	
CKLV	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 keys. (288.3)

KRLD	ak 10000	C	Dallas, Texas	-7:00 am-1:00 am
KWJJ	ak 500	.....	Portland, Ore.	-All night station
WTOS	bk 250	D	Merced, Calif.	
KYIC	ah 50000	R	Hartford, Conn.	-6:00 am-.....

1050 keys. (285.5)

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

1060 keys. (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	.....	Atzacapotzalco, D. F.	

1070 keys. (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 keys. (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 I 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. O. —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. O.
KFIO ak 100 D Spokane, Wash.
KFGS ak 500 a (2.5) Los Angeles, Calif.
KRDK 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
WDEL 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 5000 C Salt Lake City, Ut. —8:30 am—3:00 am
WJJD ak 2000 Dn Chicago, Ill. —6:45 am—6:45 pm
WOV 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. *10 PM*
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.
XEP ak 500 Juarez, Chih. —Noon—midnight
 —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 C 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.
WQAI 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)

CFGP 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
KFXJ ak 100 (.25) Grand Junc., Colo.
KGGI z 100 DP Coeur d'Alene, Idaho
KGDE c 100 (.25) Fergus Falls, Minn. —8:00 am—10:00 pm
KGEK 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
KGLV z 100 DP Greenville, Texas
KMLB ak 100 (.25) Monroe, La.
KOOS ak 100 (.25) Marshfield, Ore. —10:00 am—7:45 pm
KSNV 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.
WBEZ 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.	
WSBL	ak	100	(.25)	Columbus, Ga.	-8:00 am-10:30 pm
WTHT	z	250	D	Salisbury, Md.	
-WTOT	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
CKMG	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.	-5:00 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	z	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
-KWFN	ak	100	....	Watertown, S. Dak.	
WALR	ak	100	....	Zanesville, Ohio	-7:00 am-9:00 pm
WBAK	ak	100	....	Wilkes-Barre, Pa.	
WBHL	ak	100	S	Richmond, Va.	
-WBLV	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.	
-WQNY	ak	100	3	Newburgh, N. Y.	-7:30 am-midnight
WGRM	ak	100	....	Grenada, Miss.	
WHAJ	z	250	DP	Greenfield, Mass.	
-WBBF	ak	100	(.25)	Rock Island, Ill.	-7:00 am-1:05 am
-WBBU	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.	
-WMPG	ak	100	(.25)	Hibbing, Minn.	-7:30 am-10:00 pm
WOMT	ak	100	D	Manitowoc, Wis.	
WPAX	ak	100	D	Thomasville, Ga.	-8:00 am-6:00 pm
-WSAY	z	100	D	Rochester, N. Y.	-7:00 am-4:30 pm
-WSBC	ak	100	4(.25)	Chicago, Ill.	-6:00 am-midnight
-WSIX	ak	100	(.25)	Nashville, Tenn.	-7:00 am-1:00 am
-WSNJ	z	100	D	Bridgeton, N. J.	
-WSOC	ak	100	N(.25)	Charlotte, N. C.	-7:00 am-midnight
-WTAX	ak	100	....	Springfield, Ill.	
-XEAT	ak	250	....	Parral, Chih.	-11:00 am-9:00 pm
XEE	ak	50	....	Juarez, Dgo.	
XEFV	ak	100	....	Puebla, Pue.	
XETH	ak	100	....	Puebla, Pue.	

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1220 kcys. (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 kcys. (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
XEJF	ak	100	.....	Monterrey, N. L.	-11:00 am-8:00 pm

1240 kcys. (241.8)

CJCB	ak	1000	F	Sydney, N. S.	-7:00 am-11:00 pm
CMHB	z	50	.....	Sancti Spiritus, Cuba	
KGCU	ak	250	1	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.	
XEAY	z	100	.....	Mexico City, D. F.	
XEBS	z	200	.....	Mexico City, D. F.	
XEKL	z	500	.....	Leon, Guan.	
XELA	z	50	.....	Saltillo, Coah.	

1250 kcys. (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 kcys. (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 kcys. (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.	
WCAM	ak	500	1	Camden, N. J.	
WCAP	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
KFHH	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.	
KCCV	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
KROQ	ak	100	....	Santa Fe, N. Mex.	
KRRV	z	250	D	Sherman, Texas	
KSRO	ak	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)
WEBR	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
WFBG	ak	100	3	Altoona, Pa.	-7:00 am—10:30 pm
WFDF	ak	100		Flint, Mich.	-6:00 am—midnight
WGAU	z	100	(.25)P	Athens, Ga.	
WGHN	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
WRAL	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		Torreon, 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	C M	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
WDRG	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	CN	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 (2.5)	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 (2.5)	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
- WFBF	ak	1000	C (5)	Syracuse, N. Y.	-7:00 am-1:00 am
- WGES	ak	500	I (1)	Chicago, Ill.	-8:00 am-9:00 pm
- WQBC	ak	1000	D	Vicksburg, Miss.	
WSBT	ak	500	I	South Bend, Ind.	

1370 kcys. (218.8)

CFAR	z	100	.....	Flin Flon, Man.	
CKCW	ak	100	F	Moncton, N. B.	-10:00 am-10:30 pm
CMGE	ak	150	.....	Cardenas, Cuba	-11:00 am-8:30 pm
KAST	ak	100	D	Astoria, Ore.	-7:00 am-2:00 am
KCMO	ak	100	.....	Kansas City, Mo.	-3:00 pm-1:00 am
KEEN	ak	100	3	Seattle, Wash.	
- 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	
- KIGA	ak	100	4	Glovis, N. Mex.	-9:00 am-11:00 pm
- KIUF	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.	
KRSM	ak	100	M	Salem, Ore.	-10:00 am-1:00 am
KTEM	ak	250	D	Temple, Texas	
- KTOK	bk	100	M	Oklahoma City, Ok.	
KUJ	ak	100	.....	Walla Walla, Wash.	-9:30 am-1:00 am
KVGB	z	100	.....	Great Bend, Kans.	
- KVRB	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
- WATL	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	D	Hattiesburg, Miss.	-8:00 am-9:00 pm
WGL	ak	100	N	Fort Wayne, Ind.	
- WGRG	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
- WHLB	ak	100	C (.25)	Virginia, Minn.	
- WIBM	ak	100	(.25)	Jackson, Minn.	-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	(.25)	Wausau, Wis.	-7:00 am-11:15 pm
- WSVS	ak	50	2D	Buffalo, N. Y.	
XE CZ	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
WKBH	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.	
LBO	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
WSFA	ak	500	C (1)	Montgomery, Ala.	-7:30 am-midnight

1420 kcys. (211.1)

CHLN	z	100	.....	Three Rivers, P. O.	
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	ak	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
KGGC	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
WAPO	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
WGPC	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.	
WMBB	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
WMPS	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
WBCA	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.	
KJEM	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
WJOM	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.	
-KRROD	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
-WCNW	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
-WHEF	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.	
-WKBV	ak	100	(.25)	E. Dubuque, Ill.	
-WKBW	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.	
-WOPI	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
-WRTD	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

Frequency in kilocycles in second column. Night power in watts in third column. Net work affiliations in fourth column. C Columbia, R National Red, B National Blue, N National Red and Blue. F Canadian, M Mutual.

ALABAMA		
Birmingham		
WAPI	1140	5000 C
WBRC	930	1000 R
WSGN	1310	100 B
Decatur		
WMFO	1370	100
Dothan		
WAGF	1370	250
Gadsden		
WJBY	1210	100
Huntsville		
WBHP	1200	100
Mobile		
WALA	1380	500 C
Montgomery		
WSFA	1410	500 C
Selma		
WHBB	1500	100
Sheffield		
WMSD	1420	100
Tuscaloosa		
WJRD	1200	250
ALASKA		
Anchorage		
KFOQ	780	250
Juneau		
KINY	1310	100
Ketchikan		
KGBU	900	500
ARIZONA		
Jerome		
KCRJ	1310	100
Lowell		
KSUN	1200	100
Phoenix		
KOY	1390	1000 C
KTAR	620	1000 N
Tucson		
KGAR	1370	100 C
KVOA	1260	1000
Yuma		
KUMA	1420	100
ARKANSAS		
Blytheville		
KLCN	1290	100
El Dorado		
KELD	1370	100
Fort Smith		
KFPW	1210	100
Hot Springs		
KTHS	1060	10000 N
Jonesboro		
KBTM	1200	100
Little Rock		
KARK	800	500 N
KGHI	1200	100
KLRA	1390	1000 C

CALIFORNIA		
Pine Bluff		
KOTN	1500	100
Siloam Springs		
KUOA	1260	5000
CALIFORNIA		
Bakersfield		
KERN	1370	100 N
KPMC	1550	1000M
Berkeley		
KRE	1370	100
Beverly Hills		
KMPK	710	500
Chico		
KHSL	1260	250
El Centro		
KXO	1500	100
Eureka		
KIEM	1450	500M
Fresno		
KARM	1310	100 C
KMJ	580	1000 N
Glendale		
KIEV	850	250
Hollywood		
KFWB	950	1000
Long Beach		
KFOX	1250	1000
KGER	1360	1000
Los Angeles		
KECA	1430	1000 B
KEHE	780	1000
KFAC	1300	1000
KFI	640	50000 R
KFSG	1120	500
KFVD	1000	1000
KGFJ	1200	100
KIJJ	900	1000M
KMTR	570	1000
KNX	1050	50000 C
KRRD	1120	500
Merced		
KYOS	1040	250
Modesto		
KTRB	740	250
Monterey		
KDON	1210	100M
Oakland		
KLS	1280	250
KLX	880	1000
KROW	930	1000
Pasadena		
KPPC	1210	100
Redding		
KVCV	1200	100
Sacramento		
KFBK	1490	5000 N
KROY	1210	100 C
San Bernardino		
KFXM	1210	100M
San Diego		
KFSD	600	1000 B
KGB	1330	1000M
San Francisco		
KFRK	610	1000M
KGGC	1420	100
KGO	790	7500 B
KJBS	1070	500
KPO	680	50000 R

KSFO	560	1000 C
KYA	1230	1000
San Jose		
KQW	1010	1000M
San Luis Obispo		
KVEE	1200	250
Santa Ana		
KVOE	1500	100M
Santa Barbara		
KDB	1500	100M
KTMS	1220	500 B
Santa Rosa		
KSRO	1310	250
Stockton		
KGDM	1100	1000M
KWG	1200	100 N
Visalia		
KTKC	1190	250
Watsonville		
KHUB	1310	250
COLORADO		
Alamosa		
KGIV	1420	100
Colorado Springs		
KVOR	1270	1000 C
Denver		
KFEL	920	500M
KLZ	560	1000 C
KOA	830	50000 R
KPOF	880	500
KVOD	920	500 B
Durango		
KIUP	1370	100
Grand Junction		
KFXJ	1200	100
Greeley		
KFKA	880	500M
La Junta		
KOKO	1370	100
Lamar		
KIDW	1420	100
Pueblo		
KGHF	1320	500 B
Sterling		
KGEK	1200	100
CONNECTICUT		
Bridgeport		
WICC	600	500M
Hartford		
WDRG	1330	1000 C
WTIC	1040	50000 R
WTHT	1200	100M
New Britain		
WNBC	1380	250
New Haven		
WELI	900	500
New London		
WNLC	1500	100M
Waterbury		
WATR	1190	100
WBRV	1530	1000M

DELAWARE		
Wilmington		
WDEL	1120	250 R
WILM	1420	100
DISTRICT OF COLUMBIA		
Washington		
WJSV	1460	10000 C
WMAL	630	250 B
WOL	1310	1000 R
WRC	950	500 M
FLORIDA		
Clearwater		
WFLA	620	1000 N
Daytona Beach		
WMFJ	1420	100
Gainesville		
WRUF	830	5000
Jacksonville		
WJAX	900	1000 N
WMBR	1370	100 C
Lakeland		
WLAK	1310	100
Miami		
WIOD	610	1000 N
WMBF	610	1000
WQAM	560	1000 C
Miami Beach		
WKAT	1500	100
Orlando		
WDBO	580	1000 C
Pensacola		
WCOA	1340	500 C
St. Augustine		
WFOY	1210	100
St. Petersburg		
WSUN	620	1000 N
Tallahassee		
WTAL	1310	100
Tampa		
WDAE	1220	1000 C
West Palm Beach		
WJNO	1200	100 C
GEORGIA		
Albany		
WGPC	1420	100
Athens		
WGAI	1310	100
Atlanta		
WAGA	1450	500
WATL	1370	100
WGST	890	1000 C
WSB	740	50000 R
Augusta		
WRDW	1500	100 C
Columbus		
WRBL	1200	100
Griffin		
WKUE	1500	100
Macon		
WMAZ	1180	1000 C
Rome		
WRGA	1500	100
Savannah		
WTOG	1260	1000 C

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Thomasville
WPAX 1210 100
Waycross
WAYX 1200 100

HAWAII

Hilo
KHBC 1400 250M
Honolulu
KGMB 1320 1000 C
KGU 750 2500 N

IDAHO

Boise
KIDO 1350 1000 N
Coeur d'Alene
KGCI 1200 100
Idaho Falls
KID 1320 500
Lewiston
KRLC 1390 250
Nampa
KFXD 1200 100
Pocatello
KSEI 900 250
Twin Falls
KTFI 1240 1000

ILLINOIS

Bloomington
WJBC 1200 100
Carthage
WCAZ 1070 100
Champaign
WDWS 1370 100
Chicago
WAAP 920 1000
WBBM 770 50000 C
WCBF 1080 5000
WCFL 970 5000 N
WCRW 1210 100
WEDG 1210 100
WENR 870 50000 B
WGES 1360 500
WGN 720 50000M
WJJB 1130 20000
WLS 870 50000 B
WMAQ 670 50000 R
WMBI 1080 5000
WSBC 1210 100
Cicero
WHFC 1420 100
Decatur
WJBL 1200 100
East Dubuque
WKBB 1500 100
East St. Louis
WTMW 1500 100
Harrisburg
WEBQ 1210 100
Joliet
WCLS 1310 100
Peoria
WMBD 1440 1000 C
Quincy
WTAD 900 1000

Rockford
WROK 1410 500
Rock Island
WHBF 1210 100
Springfield
WCBS 1420 100
WTAX 1210 100
Tuscola
WDZ 1020 250
Urbana
WILL 580 1000

INDIANA

Anderson
WBHU 1210 100
Elkhart
WTRC 1310 100
Evansville
WEOA 1370 100 C
WGBF 630 500 N
Fort Wayne
WGL 1370 100 N
WOWO 1160 10000 B
Gary
WIND 560 1000
Hammond
WHIP 1480 5000
WWAE 1200 100
Indianapolis
WFBI 1230 1000 C
WGVA 1050 1000
WIRE 1400 1000 R
Muncie
WLBC 1310 100
New Albany
WGRG 1370 250
Richmond
WKBV 1500 100
South Bend
WFAM 1200 100
WSBT 1360 500
Terre Haute
WBOW 1310 100 N
West Lafayette
WBAA 890 500

IOWA

Ames
WOI 640 5000
Boone
KFGQ 1370 100
Cedar Rapids
WMT 600 1000 B
Davenport
WOC 1370 100 C
Decorah
KGCA 1270 100
KWLC 1270 100
Des Moines
KRNT 1320 1000 C
KSO 1430 500 B
WHO 1000 50000 R
Dubuque
KDTH 1340 500
Iowa City
WSUI 880 500

Marshalltown
KFJB 1200 100
Mason City
KGLO 1210 100 C
Shenandoah
KFNF 890 500
KMA 930 1000
Sioux City
KSCJ 1330 1000 C
KTRI 1420 100

KANSAS

Abilene
KFBI 1050 5000
Coffeyville
KGGF 1010 1000M
Dodge City
KGNO 1340 250
Garden City
KIUL 1210 100
Great Bend
KVCB 1370 100
Hutchinson
KWBG 1420 100
Kansas City
KCKN 1310 100
Lawrence
KFKU 1220 1000
WREN 1220 1000 B
Manhattan
KSAC 580 500
Pittsburg
KOAM 790 1000 N
Salina
KSAL 1500 100
Topeka
WIBW 580 1000 C
Wichita
KANS 1210 100 B
KFH 1300 1000 C

KENTUCKY

Ashland
WCMI 1310 100
Covington
WCKY 1490 10000 N
Lexington
WLAP 1420 100
Louisville
WAVE 940 1000 N
WHAS 820 50000 C
Middlesboro
WLMU 1210 100
Owensboro
WOMI 1500 100
Paducah
WPAD 1420 100

LOUISIANA

Alexandria
KALB 1210 100
Baton Rouge
WJBO 1120 500 B
Lafayette
KVOL 1310 100

Lake Charles
KPLC 1500 100
Monroe
KMLB 1200 100
New Orleans
WBNO 1200 100
WDSU 1250 1000 B
WJBW 1200 100
WSMB 1320 1000 R
WWL 850 10000 C
Shreveport
KRMD 1310 100
KTBS 1450 1000 N
KWKH 1100 10000 C

MAINE

Augusta
WRDO 1370 100M
Bangor
WABI 1200 100
WLBZ 620 500 C
Portland
WCSH 940 1000 R
WGAN 640 500
Presque Isle
WAGM 1420 100

MARYLAND

Baltimore
WBAL 760 2500 B
WBAL 1060 10000 B
WCAO 600 500 C
WCBM 1370 100
WFBR 1270 500 R
College Park
W3XJ 1060 100
Cumberland
WTBO 800 250
Frederick
WFMD 900 500
Hagerstown
WJEL 1210 50
Salisbury
WSAL 1200 250

MASSACHUSETTS

Boston
WAAB 1410 500M
WBZ 990 50000 B
WCOP 1120 500
WEEI 590 1000 C
WHDH 830 1000
WMEX 1500 100
WNAC 1230 1000 R
WORL 920 500
Fall River
WSAR 1450 1000M
Greenfield
WHAT 1210 250
Lawrence
WLAW 680 1000
WLLH 1370 100
Lowell
WLLH 1370 100M
New Bedford
WNBH 1310 100M
Pittsfield
WBRK 1310 100 C

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Springfield WBZA 990 1000 B WMAS 1420 100 C WSPR 1140 500 M Worcester WORC 1280 500 C WTAG 580 1000 R	St. Paul KSTP 1460 10000 R WMIN 1370 100 Virginia WHLB 1370 100 C Winona KWNO 1200 250	Wolf Point KGCX 1450 1000	Gallup KAWM 1500 100 Hobbs KWEW 1500 100 Roswell KGFSL 1370 100 Santa Fe KROA 1310 100
MICHIGAN	MISSISSIPPI	NEBRASKA	NEW YORK
Battle Creek WELL 1420 100 Bay City WBCM 1410 500 Calumet WHDF 1370 100 Detroit WJBK 1500 100 WJR 750 500000 C WMBC 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 WMPC 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100 Royal Oak WEXL 1310 50 Saginaw WHAL 950 500	Grenada WGRM 1210 100 Gulfport WGCM 1210 100 Hattiesburg WFOR 1370 100 Jackson WJDX 1270 1000 R Kosciusko WHEF 1500 100 Laurel WAML 1310 100 Meridian WCOC 880 500 C Vicksburg WQBC 1360 1000	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	Albany WABY 1370 100 WOKO 1430 500 C Auburn WMBO 1310 100 Binghamton WNEF 1500 100 C Brooklyn WARD 1400 500 WBBC 1400 500 WBBR 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 WKWB 1480 5000 C WVSV 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 WEAR 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 WOXR 1550 1000 Olean WIDL 1400 250 Plattsburg WMFF 1310 100 Rochester WHAM 1150 50000 B WHEC 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
MINNESOTA	MISSOURI	NEVADA	
Albert Lea KATE 1420 250 Duluth KDAL 1500 100 C WEBC 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 KRCC 1310 100 St. Cloud KFAM 1420 100	Cape Girardeau KFVS 1210 100 Columbia KFUR 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	Reno KOH 1380 500 C	
	MISSOURI	NEW HAMPSHIRE	
		Laconia WLNH 1310 100 M Manchester WFEA 1340 500 N Portsmouth WHEB 740 250	
		NEW JERSEY	
		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	
	MONTANA	NEW MEXICO	
	Billings KGHL 780 1000 N Butte KGR 1340 1000 N Great Falls KFBB 1280 1000 C Helena KPFA 1210 100 Kalispell KGEZ 1310 100 Lewistown KDNC 1200 100 Missoula KGO 1260 1000 C	Albuquerque KGGM 1230 1000 KOB 1180 10000 N Carlsbad KLAH 1210 100 Clovis KICA 1370 100	

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Troy
 WHAZ 1300 1000
 Utica
 WIBX 1200 100 C
 Watertown
 WNNY 1420 100
 White Plains
 WFAS 1210 100
 Woodside
 WWRL 1500 100

NORTH CAROLINA

Asheville
 WWNC 570 1000 N
 Charlotte
 WBT 1080 50000 C
 WSOC 1210 100 N
 Durham
 WDNC 1500 100 C
 Greensboro
 WBIG 1440 1000 C
 High Point
 WMFR 1200 100
 Kinston
 WFTC 1200 100
 Raleigh
 WPTF 680 1000 N
 Rocky Mount
 WEED 1420 100
 Wilmington
 WMFD 1370 100
 Wilson
 WGTM 1310 100
 Winston-Salem
 WAIR 1250 250
 WSJS 1310 100 C

NORTH DAKOTA

Bismarck
 KFYR 550 1000 N
 Devils Lake
 KDLR 1210 100
 Fargo
 WDAY 940 1000 N
 Grand Forks
 KPFJ 1410 500
 Jamestown
 KRMC 1370 100
 Mandan
 KGCU 1240 250
 Minot
 KLPM 1240 250
 Valley City
 KOVC 1500 100

OHIO

Akron
 WADC 1320 1000 C
 WJW 1210 100
 Ashtabula
 WICA 940 250
 Canton
 WHBC 1200 100
 Cincinnati
 WCPO 1200 100
 WKRC 550 1000 C
 WLW 700 500000 N

WSAI 1330 1000 N
 WXXO 700 500000
 Cleveland
 WCLE 610 500 M
 WGAR 1450 500 C
 WHK 1390 1000 B
 WTAM 1070 50000 R
 Columbus
 WBNS 1430 500 C
 WCOL 1210 100 N
 WHKC 640 500
 WOSU 570 750

Dayton
 WHIO 1260 1000 C
 WSMK 1380 200 C
 Lima
 WBLV 1210 100
 Portsmouth
 WPAY 1370 100
 Toledo
 WSPD 1340 1000 B
 WTOL 1200 100
 Youngstown
 WKBN 570 500 C
 Zanesville
 WALR 1210 100

OKLAHOMA

Ada
 KADA 1200 100M
 Ardmore
 KVSQ 1210 100M
 Elk City
 KASA 1210 100M
 Enid
 KCRC 1360 250M
 Muskogee
 KBIJ 1500 100M
 Norman
 WNAD 1010 1000
 Oklahoma City
 KFXR 1310 100
 KOMA 1480 5000 C
 KTOK 1370 100M
 WKY 900 1000 N
 Okmulgee
 KHBG 1210 100
 Ponca City
 WBBZ 1200 100M
 Shawnee
 KGFF 1420 100M
 Tulsa
 KTUL 1400 500 C
 KVOO 1140 25000 N

OREGON

Astoria
 KAST 1370 100
 Corvallis
 KOAC 550 1000
 Eugene
 KORE 1420 100M
 Klamath Falls
 KFJI 1210 100
 La Grande
 KLBW 1420 100
 Marshfield
 KOOS 1200 100
 Medford
 KMED 1410 250 N

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
 Roseburg
 KRNR 1500 100M
 Salem
 KSLM 1370 100M

PENNSYLVANIA

Allentown
 WGBA 1440 500
 WSAN 1440 500 N
 Altoona
 WFBG 1310 100
 Easton
 WEST 1200 100
 Erie
 WLEU 1420 100 B
 Glenside
 WIBG 970 100
 Greensburg
 WHJB 620 250 C
 Grove City
 WSAJ 1310 100
 Harrisburg
 WHP 1430 500 C
 WKBO 1200 100
 Hazleton
 WAZL 1420 100
 Johnstown
 WJAC 1310 100
 Lancaster
 WGAL 1500 100
 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
 Pittsburgh
 KDKA 980 50000 B
 KQV 1380 500 C
 WCAE 1220 1000 R
 WJAS 1290 1000 C
 WWSW 1500 100

Reading
 WEEU 830 1000
 WRAW 1310 100
 Scranton
 WGBI 880 500
 WQAN 880 500
 Sunbury
 WKOK 1210 100
 Uniontown
 WMBS 1420 250
 Wilkes-Barre
 WBAX 1210 100
 WBRE 1310 100 N
 Williamsport
 WRAK 1370 100

York
 WORK 1320 1000 N

PUERTO RICO

Mayaguez
 WPRR 1370 100
 Ponce
 WPRP 1420 100
 San Juan
 WKAQ 1240 1000
 WNEL 1290 1000

RHODE ISLAND

Providence
 WEAN 780 1000M
 WJAR 890 1000 R
 WPRO 630 500 C

SOUTH CAROLINA

Anderson
 WAIM 1200 100 C
 Charleston
 WCSC 1360 500 N
 Columbia
 WIS 560 1000 N
 Florence
 WOLS 1200 100
 Greenville
 WFBC 1300 1000 N
 Spartanburg
 WSPA 920 1000

SOUTH DAKOTA

Aberdeen
 KABR 1420 100
 Brookings
 KFDY 780 1000
 Huron
 KGDY 1340 250
 Pierre
 KGFX 630 200
 Rapid City
 KOBH 1370 100
 WCAT 1200 100
 Sioux Falls
 KELO 1200 100 N
 KSOO 1110 2500 N
 Vermillion
 KUSD 890 500
 Watertown
 KWTN 1210 100
 Yankton
 WNAX 570 1000 C

TENNESSEE

Bristol
 WOPI 1500 100
 Chattanooga
 WAPO 1420 100
 WODD 1280 1000 C
 Jackson
 WTJS 1310 100
 Knoxville
 WNOX 1010 1000 C
 WROL 1310 100 N
 Memphis
 WHBQ 1370 100
 WMC 780 1000 R
 WMP3 1430 500 B
 WREC 600 1000 C

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Nashville WLAC 1470 5000 C WSIX 1210 100 WSM 650 50000 N	San Angelo KGKL 1370 100 San Antonio KABC 1420 100 KMAC 1370 100 KONO 1370 100 KTSA 550 1000 C WQAI 1190 50000 N	Bellingham KVOS 1200 100 M Centralia KELA 1440 500 M Everett KRKO 1370 50 Longview KWLK 780 250 Olympia KGY 1210 100 M Pullman KWSC 1220 1000 Seattle KEEN 1370 100 KIRO 710 1000 C KJR 970 5000 B KOL 1270 1000 M KOMO 920 1000 R KRSC 1120 250 KTW 1220 1000 KXA 760 250	WISN 1120 250 C WTMJ 620 1000 N Paynette WBHJ 1210 100 Racine WRJN 1370 100 Sheboygan WHBL 1300 250 Stevens Point WLBL 900 5000 Superior WDSM 1200 100 Wausau WSAU 1370 100
TEXAS			
Abilene KRBC 1420 100 Amarillo KGNC 1410 1000 N Austin KNOW 1500 100 C KTBC 1120 1000 Beaumont KFDM 560 500 N Big Spring KBST 1500 100 Brady KNEL 1500 250 Brownsville KGFI 1500 100 College Station WTAW 1120 500 Corpus Christi KRIS 1330 500 N Corsicana KAND 1310 100 Dallas KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500 M Dublin KFPL 1310 100 El Paso KROD 1500 100 KTSM 1310 100 N WDAH 1310 100 Fort Worth KFJZ 1370 100 KTAT 1240 1000 M WBAP 800 50000 N Galveston KLUF 1370 100 Greenville KGVL 1200 100 Houston KPRC 920 1000 R KTRH 1290 1000 C KXYZ 1440 1000 B Kilgore KOCÁ 1210 100 Longview KFRO 1370 250 Lubbock KFYO 1310 100 Lufkin KRBA 1310 100 Midland KRLH 1420 100 Palestine KNET 1420 100 Pampa KPDN 1310 100 Paris KPLT 1500 250 Pecos KIUN 1420 100 Port Arthur KPAC 1260 500	Tyler KGYB 1500 100 Waco WACO 1420 100 C Weslaco KRGV 1260 1000 N Wichita Falls KGKO 570 250 C	Spokane KFIO 1120 100 KFPY 890 1000 C KGA 1470 5000 B KHQ 590 1000 R Tacoma KMO 1330 1000 M KVI 570 1000 C Walla Walla KUJ 1370 100 Wenatchee KPO 1500 100 M Yakima KIT 1250 250 M	Wyoming Casper KDFN 1440 500 Rock Springs KVR5 1370 100 Sheridan KWYO 1370 100
UTAH			
Cedar City KSUB 1310 100 Ogden KLO 1400 500 B Price KEUB 1420 100 Salt Lake City KDYL 1290 1000 R KSL 1130 50000 C KUTA 1500 100			
VERMONT			
Burlington WCAX 1200 100 Rutland WSYB 1500 100 St. Albans WQDM 1390 1000 Springfield WNBX 1260 500 C Waterbury WDEV 550 500			
VIRGINIA			
Charlottesville WCHV 1420 100 Danville WBTM 1370 100 Harrisonburg WSVA 550 500 Lynchburg WLVA 1200 100 Newport News WGH 1310 100 Norfolk WTAR 780 1000 N Richmond WBBL 1210 100 WMBG 1350 500 R WRNL 880 500 WRTD 1500 100 B WRVA 1110 5000 C Roanoke WDBJ 930 1000 C			
WASHINGTON			
Aberdeen KXRO 1310 100 M			
WEST VIRGINIA			
Bluefield WHIS 1410 500 Charleston WCBS 580 500 C Clarksburg WBLK 1370 100 Fairmont WMMN 890 500 C Huntington WSAZ 1190 1000 Parkersburg WPAR 1420 100 C Wheeling WWVA 1160 5000 C			
WISCONSIN			
Eau Claire WEAU 1050 1000 Fond du Lac KFIZ 1420 100 Green Bay WBV 1200 100 WTAQ 1330 1000 C Janesville WCLO 1200 100 LaCrosse WKBH 1380 1000 C Madison WHA 940 5000 WIBA 1280 1000 N Manitowoc WOMT 1210 100 Milwaukee WEMP 1310 100			
WYOMING			
Casper KDFN 1440 500 Rock Springs KVR5 1370 100 Sheridan KWYO 1370 100			
BAHAMAS			
Nassau ZNS 540 400			
CANADA			
ALBERTA			
Calgary CFAC 930 1000 F CFCN 1030 10000 F CJ CJ 690 100 F Edmonton CFRN 960 100 F CJCA 730 1000 F CKUA 580 500 F Grande Prairie CFGP 1200 100 Lethbridge CJOC 950 100 F			
BRIT. COLUMBIA			
Chilliwack CHWK 780 100 F Kamloops CFJC 880 1000 F Kelowna CKOV 630 100 F Prince Rupert CFPR 580 50 Trail CJAT 910 1000 F Vancouver CBR 1100 5000 F CJOR 600 500 CKCD 1010 100 CKFK 1410 50 CKMO 1410 100 CKWX 1010 100 Victoria CFCT 1450 500			
MANITOBA			
Brandon CKX 1120 1000 F Flin Flon CFAR 1370 100			

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Winnipeg CJRC 630 500 F CKY 910 15000 F</p> <p>NEW BRUNSWICK</p> <p>Fredericton CFNB 550 500 F Moncton CKCW 1370 100 F St. John CHSJ 1120 500 F</p> <p>N. W. TERRITORY</p> <p>Aklavik CJCU 1210 50</p> <p>NOVA SCOTIA</p> <p>Glace Bay VAS 685 2000 Halifax CHNS 930 1000 F Sydney CJCB 1240 1000 F Wolfville CKIC 1010 50 Yarmouth CJLS 1310 100</p> <p>ONTARIO</p> <p>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</p>	<p>Waterloo CKCR 1510 100 Windsor CBW 600 500 F CKLW 1030 5000M Wingham CKNX 1200 100</p> <p>PRINCE EDWARD ISLAND</p> <p>Charlottetown CFCY 630 1000 F CHCK 1310 50</p> <p>Summerside CHGS 1450 50 F</p> <p>QUEBEC</p> <p>Chicoutimi CRCS 1120 100 F Hull CKKH 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</p> <p>SASKATCHEWAN</p> <p>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 CJGK 1390 100 F</p> <p>COSTA RICA</p> <p>San Jose TIEP 880 1000 TIPG 625 2000 TIX 650</p> <p>CUBA</p> <p>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</p>	<p>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</p> <p>Havana CMBC 950 10000 CMBD 1260 500 CMBF 770 10000 CMBI 750 2500 CMBQ 680 5000 CMBR 1170 150 CMBX 1070 500 CMBY 970 150 CMCZ 1000 500 CMG 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</p> <p>Manzanillo CMCO 1200 250 CMCQ 1410 5000 CMCR 1380</p> <p>Morón CMCU 1290 500 CMCW 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</p> <p>Holguín CMFK 1460 250 CMKO 1280</p> <p>Matanzas CMKM 1120 200 CMGJ 1400 150 CMGF 1120 250 CMGH 790 500</p> <p>Pinar del Río CMJP 1430 75 CMAB 1340</p> <p>Sagua la Grande CMHA 1070 50</p> <p>Sancti Spiritus CMHB 1240 50</p> <p>Santa Clara CMHI 1210 150 CMHW 820 100</p> <p>Santiago CMKK 1250 150 CMKD 1050 250 CMKG 1160</p>	<p>CMKW 1350</p> <p>CMKX 1190</p> <p>DOMINICAN REPUBLIC</p> <p>Trujillo HIX 800 700</p> <p>GUATEMALA</p> <p>Guatemala City TGW 1230 10000 TGI 1510</p> <p>MEXICO</p> <p>AGUASCALIENTES</p> <p>Aguascalientes XEBI 1000 25 XEXC 810 350</p> <p>BAJA CALIFORNIA</p> <p>Mexicali XEAA 750 200 XEAO 660 250 XECL 1100 1700 Rosarito Beach XERB 730 100000 Tijuana XEAC 980 5000 XEBG 820 1000 XEC 1150 100 XELO 670 50000 XEMO 860 5000 XEOK 760 2500</p> <p>CHIHUAHUA</p> <p>Chihuahua XEFI 1440 250 Juarez XEFV 1210 100 XEF 1450 100 XEJ 1020 1000 XEP 1160 500 Parral XEAT 1210 250</p> <p>COAHUILA</p> <p>Piedras Negras XEMU 580 XEPN 730 100000 Sabinas XEBX 640 250 Saltillo XEAS 1160 50 XELA 1240 50 Torreón XETB 1310 125 Villa Acuna XERA 840 350000</p> <p>D. F.</p> <p>Atzacapotzalco XEMG 1060 100 Chapultepec XERO 670</p> <p>Gra. Anaya XEDA 1220 200</p>
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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Mexico City</p> <p>XEAL 660 1000 XEAY 1240 100 XEB 1030 10000 XEBS 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 XEXE 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 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>Hermosilla</p> <p>XEBH 930 500 Nogales</p> <p>XEAF 990 750 Obregon</p> <p>XEAP 1240 50</p> <hr/> <p style="text-align: center;">TAMAULIPAS</p> <hr/> <p>Matamoros</p> <p>XEAM 750 25 Nuevo Laredo</p> <p>XEBK 1000 60 XEDF 810 100 XEFE 980 150 XENT 910 150000 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 Jalapa</p> <p>XEXB 1270 50 XEXD 1340 350 Minatitlan</p> <p>XEDW 1150 20 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 Flin 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 Trail, 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>CJCN 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 S. Ste. Marie, Ont.</p> <p>CJKL 1310 100 North Bay, Ont.</p> <p>CJLS 1310 100 Yarmouth, N. S.</p> <p>CJRC 950 100 Leithbridge, 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
CMWX 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 1500 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	KGCC 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	KGEK 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 Kalspell, 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	1000	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	KFRO 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	KFSB 600 San Diego, Calif.	1000	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 Tyler, Texas	100	KJR 970 Seattle, Wash.	5000	KOIN 940 Portland, Ore.	1000
KGKL 1370 San Angelo, Texas	100	KLAH 1210 Carisbad, N. Mex.	100	KOKO 1370 La Junta, Colo.	100
KGKO 570 Wichita Falls, Texas	250	KLBM 1420 La Grande, Ore.	100	KOL 1270 Seattle, Wash.	1000
KGKY 1500 Scottsbluff, Neb.	100.	KLCN 1290 Blytheville, Ark.	100	KOMA 1480 Oklahoma City, Okla.	5000
KGLO 1210 Mason City, Iowa	100	KLO 1400 Ogden, Utah	500	KOMO 920 Seattle, Wash.	1000
KGMB 1320 Honolulu, T. H.	1000	KLPM 1240 Minot, N. D.	250	KONO 1370 San Antonio, Texas	100
KGNC 1410 Amarillo, Texas	1000	KLRA 1390 Little Rock, Ark.	1000	KOOS 1200 Marshfield, Ore.	100
KGNF 1430 North Platte, Neb.	1000	KLS 1280 Oakland, Calif.	250	KORE 1420 Eugene, Ore.	100
KGNO 1340 Dodge City, Kans.	250	KLUF 1370 Galveston, Texas	100	KOTN 1500 Pine Bluff, Ark.	100
KGO 790 San Francisco, Calif.	7500	KLX 880 Oakland, Calif.	1000	KOVC 1500 Valley City, N. Dak.	100
KGU 750 Honolulu, T. H.	2500	KLZ 560 Denver, Colo.	1000	KOY 1390 Phoenix, Ariz.	1000
KGVL 1200 Greenville, Texas	100	KMA 930 Shenandoah, Iowa	1000	KPAC 1260 Port Arthur, Texas	500
KGVO 1260 Missoula, Mont.	1000	KMAC 1370 San Antonio, Texas	100	KPBM 1310 Poplar Bluff, Mo.	100
KGW 620 Portland, Ore.	1000	KMBC 950 Kansas City, Mo.	1000	KPDN 1310 Pampa, Texas	100
KGY 1210 Olympia, Wash.	100	KMED 1410 Medford, Ore.	250	KPFA 1210 Helena, Mont.	100
KHBC 1400 Hilo, T. H.	250	KMJ 580 Fresno, Calif.	1000	KPLC 1500 Lake Charles, La.	100
KHBG 1210 Okmulgee, Okla.	100	KMLB 1200 Monroe, La.	100	KPLT 1500 Paris, Texas	100
KHJ 900 Los Angeles, Calif.	1000	KMMJ 740 Clay Center, Neb.	1000	KPMC 1550 Bakerfield, Calif.	1000
KHQ 590 Spokane, Wash.	1000	KMO 1330 Tacoma, Wash.	1000	KPO 680 San Francisco, Calif.	50000
KHSL 1260 Chico, Calif.	250	KMOX 1090 St. Louis, Mo.	50000	KPOF 880 Denver, Colo.	500
KHUB 1310 Watsonville, Calif.	250	KMPC 710 Beverly Hills, Calif.	500	KPPC 1210 Pasadena, Calif.	100
KICA 1370 Clovis, N. M.	100	KMTR 570 Los Angeles, Calif.	1000	KPQ 1500 Wenatchee, Wash.	100
KID 1320 Idaho Falls, Idaho	500	KNEL 1500 Brady, Texas	250	KPRC 920 Houston, Texas	1000
KIDO 1350 Boise, Idaho	1000	KNET 1420 Palestine, Texas	100	KQV 1380 Pittsburgh, Pa.	500
KIDW 1420 Lamar, Colo.	100	KNOW 1500 Austin, Texas	100	KQW 1010 San Jose, Calif.	1000
KIEM 1450 Eureka, Calif.	500	KNX 1050 Los Angeles, Calif.	50000	KRBA 1310 Lufkin, Texas	100
KIEV 850 Glendale, Calif.	250	KOA 830 Denver, Colo.	50000	KRBC 1420 Abilene, Texas	100
KINY 1310 Juneau, Alaska	100	KOAC 550 Corvallis, Ore.	1000	KRE 1370 Berkeley, Calif.	100
KIRO 710 Seattle, Wash.	1000	KOAM 790 Pittsburg, Kans.	1000	KRGV 1260 Weilaco, Texas	1000
KIT 1250 Yakima, Wash.	250	KOB 1180 Albuquerque, N. M.	10000	KRIS 1330 Corpus Christi, Tex.	500
KIUL 1210 Garden City, Kans.	100	KOBH 1370 Rapid City, S. Dak.	100	KRKD 1120 Los Angeles, Calif.	500
KIUN 1420 Pecos, Texas	100	KOCA 1210 Kilgore, Texas	100	KRKO 1370 Everett, Wash.	50
KIUP 1370 Durango, Colo.	100	KOH 1380 Reno, Nev.	500	KRLC 1390 Lewiston, Idaho	250
KJBS 1070 San Francisco, Calif.	500	KOIL 1260 Omaha, Neb.	1000	KRLD 1040 Dallas, Texas	10000

NORTH AMERICAN B. C. STATIONS BY CALLS

KRLH 1420 Midland, Texas	100	KTMS 1220 Santa Barbara, Calif.	500	KWLC 1270 Decorah, Iowa	100
KRMC 1370 Jamestown, N. Dak.	100	KTOK 1370 Oklahoma City, Okla.	100	KWKL 780 Longview, Wash.	250
KRMD 1310 Shreveport, La.	100	KTRB 740 Modesto, Calif.	250	KWNO 1200 Winona, Minn.	250
KRNR 1500 Roseburg, Ore.	100	KTRH 1290 Houston, Texas	1000	KWOS 1310 Jefferson City, Mo.	100
KRNT 1320 Des Moines, Iowa	1000	KTRI 1420 Sioux City, Iowa	100	KWSC 1220 Pullman, Wash.	1000
KROC 1310 Rochester, Minn.	100	KTSA 550 San Antonio, Texas	1000	KWTN 1210 Watertown, S. Dak.	100
KROD 1500 El Paso, Texas	100	KTSM 1310 El Paso, Texas	100	KWTO 560 Springfield, Mo.	5000
KROW 930 Oakland, Calif.	1000	KTUL 1400 Tulsa, Okla.	500	KWYO 1370 Sheridan, Wyo.	100
KROY 1210 Sacramento, Calif.	100	KTW 1220 Seattle, Wash.	1000	KXA 760 Seattle, Wash.	250
KRQA 1310 Santa Fe, N. Mex.	100	KUJ 1370 Walla Walla, Wash.	100	KXBY 1530 Kansas City, Mo.	1000
KRRV 1310 Sherman, Texas	250	KUMA 1420 Yuma, Ariz.	100	KXL 1420 Portland, Ore.	100
KRSC 1120 Seattle, Wash.	250	KUOA 1260 Sioux Springs, Ark.	5000	KXO 1500 El Centro, Calif.	100
KSAC 580 Manhattan, Kans.	500	KUSD 890 Vermillion, S. Dak.	500	KXOK 1250 St. Louis, Mo.	1000
KSAL 1500 Salina, Kans.	100	KUTA 1500 Salt Lake City, Utah	100	KYRO 1310 Aberdeen, Wash.	100
KSCJ 1330 Sioux City, Iowa	1000	KVCV 1200 Redding, Calif.	100	KXYZ 1440 Houston, Texas	1000
KSD 550 St. Louis, Mo.	1000	KVEC 1200 San Luis Obispo, Cal.	250	KYA 1230 San Francisco, Calif.	1000
KSEI 900 Pocatello, Idaho	250	KVGB 1370 Great Bend, Kans.	100	KYOS 1040 Merced, Calif.	250
KSFO 560 San Francisco, Calif.	1000	KVI 570 Tacoma, Wash.	1000	KYWC 1020 Philadelphia, Pa.	10000
KSL 1130 Salt Lake City, Utah	50000	KVOA 1260 Tucson, Ariz.	1000	TGW 1230 Guatemala City, Guat.	10000
KSLM 1370 Salem, Ore.	100	KVOX 920 Denver, Colo.	500	TGI 1510 Guatemala City, Guat.	.....
KSO 1430 Des Moines, Iowa	500	KVOE 1500 Santa Ana, Calif.	100	TIEP 880 San Jose, Costa Rica	1000
KSOO 1110 Sioux Falls, S. Dak.	2500	KVOL 1310 Lafayette, La.	100	TIPG 625 San Jose, Costa Rica	2000
KSRO 1310 Santa Rosa, Calif.	250	KVOO 1140 Tulsa, Okla.	25000	TIX 650 San Jose, Costa Rica	.....
KSTP 1460 St. Paul, Minn.	10000	KVOR 1270 Colorado Springs, Colo.	1000	VAS 685 Gloucester Bay, N. S.	2000
KSUB 1310 Cedar City, Utah	100	KVOS 1200 Bellingham, Wash.	100	VOAC 1065 St. John's, Nfld.	40
KSUN 1200 Lowell, Ariz.	100	KVOX 1310 Moorhead, Minn.	100	VOAS 940 St. John's, Nfld.	100
KTAR 620 Phoenix, Ariz.	1000	KVRS 1370 Rock Springs, Wyo.	100	VOCM 1006 St. John's, Nfld.	200
KTAT 1240 Fort Worth, Texas	1000	KVSO 1210 Ardmore, Okla.	100	VOGY 840 St. John's, Nfld.	400
KTBC 1120 Austin, Texas	1000	KWBG 1420 Hutchinson, Kans.	100	VONF 1195 St. John's, Nfld.	500
KTBS 1450 Shreveport, La.	1000	KWEW 1500 Hobbs, N. Mex.	100	VOWR 681 St. John's, Nfld.	500
KTEM 1370 Temple, Texas	250	KWG 1200 Stockton, Calif.	100	WAAB 1410 Boston, Mass.	500
KTFI 1240 Twin Falls, Idaho	1000	KWJJ 1040 Portland, Ore.	500	WAAF 920 Chicago, Ill.	1000
KTHS 1060 Hot Springs, Ark.	10000	KWK 1350 St. Louis, Mo.	1000	WAAT 940 Jersey City, N. J.	500
KTCK 1190 Visalia, Calif.	250	KWKH 1100 Shreveport, La.	10000	WAAW 560 Omaha, Neb.	500

NORTH AMERICAN B. C. STATIONS BY CALLS

WBAC 860 New York, N. Y.	50000	WBEN 900 Buffalo, N. Y.	1000	WCBM 1370 Baltimore, Md.	100
WABI 1200 Bangor, Maine	100	WBEO 1310 Marquette, Mich.	100	WCBS 1420 Springfield, Ill.	100
WABY 1370 Albany, N. Y.	100	WBHP 1200 Huntsville, Ala.	100	WCCO 810 Minneapolis, Minn.	50000
WACO 1420 Waco, Texas	100	WBIG 1440 Greensboro, N. C.	1000	WCFL 970 Chicago, Ill.	5000
WADC 1320 Akron, Ohio	1000	WBIL 1100 New York, N. Y.	5000	WCHS 580 Charleston, W. Va.	500
WAGA 1450 Atlanta, Ga.	500	WBLK 1370 Clarksburg, W. Va.	100	WCHV 1420 Charlottesville, Va.	100
WAGF 1370 Dothan, Ala.	250	WBLY 1210 Lima, Ohio	100	WCKY 1490 Covington, Ky.	10000
WAGM 1420 Presque Isle, Me.	100	WBNO 1200 New Orleans, La.	100	WCLE 610 Cleveland, Ohio	500
WAIM 1200 Anderson, S. C.	100	WBNS 1430 Columbus, Ohio	500	WCLO 1200 Janesville, Wis.	100
WAIR 1250 Winston-Salem, N. C.	250	WBNX 1350 New York, N. Y.	1000	WCLS 1310 Joliet, Ill.	100
WALA 1380 Mobile, Ala.	500	WBNY 1370 Buffalo, N. Y.	100	WCMI 1310 Ashland, Ky.	100
WALR 1210 Zanesville, Ohio	100	WBOQ 860 New York, N. Y.	50000	WCNW 1500 Brooklyn, N. Y.	100
WAML 1310 Laurel, Miss.	100	WBOW 1310 Terre Haute, Ind.	100	WCOA 1340 Frasacola, Fla.	500
WAPI 1140 Birmingham, Ala.	5000	WBRB 1210 Red Bank, N. J.	100	WCOC 880 Meridian, Miss.	500
WAPO 1420 Chattanooga, Tenn.	100	WBRC 930 Birmingham, Ala.	1000	WCOL 1210 Columbus, Ohio	100
WARD 1400 Brooklyn, N. Y.	500	WBRE 1310 Wilkes-Barre, Pa.	100	WCOP 1120 Boston, Mass.	500
WASH 1270 Grand Rapids, Mich.	500	WBRK 1310 Pittsfield, Mass.	100	WCPO 1200 Cincinnati, Ohio	100
WATL 1370 Atlanta, Ga.	100	WBRY 1536 Waterbury, Conn.	1000	WCRW 1210 Chicago, Ill.	100
WATR 1190 Waterbury, Conn.	100	WBT 1080 Charlotte, N. C.	50000	WCSC 1360 Charleston, S. C.	500
WAVE 940 Louisville, Ky.	1000	WBTM 1370 Danville, Va.	100	WCSH 940 Portland, Me.	1000
WAWZ 1350 Zarephath, N. J.	500	WBZ 990 Boston, Mass.	50000	WDAE 1220 Tampa, Fla.	1000
WAYX 1200 Waycross, Ga.	100	WBZA 990 Springfield, Mass.	1000	WDAF 610 Kansas City, Mo.	1000
WAZL 1420 Hazleton, Pa.	100	WCAD 1220 Canton, N. Y.	500	WDAH 1310 El Paso, Texas	100
WBAA 890 West Lafayette, Ind.	500	WCAE 1220 Pittsburgh, Pa.	1000	WDAS 1370 Philadelphia, Pa.	100
WBAL 760 Baltimore, Md.	2500	WCAL 1250 Northfield, Minn.	1000	WDAY 940 Fargo, N. Dak.	1000
WBAL 1060 Baltimore, Md.	10000	WCAM 1280 Camden, N. J.	500	WDBJ 930 Roanoke, Va.	1000
WBAP 800 Fort Worth, Texas	50000	WCAO 600 Baltimore, Md.	500	WBDO 580 Orlando, Fla.	1000
WBAX 1210 Wilkes-Barre, Pa.	100	WCAP 1280 Asbury Park, N. J.	500	WDEL 1120 Wilmington, Del.	250
WBBC 1400 Brooklyn, N. Y.	500	WCAT 1200 Rapid City, S. Dak.	100	WDEV 550 Waterbury, Vt.	500
WBBL 1210 Richmond, Va.	100	WCAU 1170 Philadelphia, Pa.	50000	WDGY 1180 Minneapolis, Minn.	1000
WBMM 770 Chicago, Ill.	50000	WCAX 1200 Burlington, Vt.	100	WDNC 1500 Durham, N. C.	100
WBRR 1300 Brooklyn, N. Y.	1000	WCAZ 1070 Carthage, Ill.	100	WDDD 1280 Chattanooga, Tenn.	1000
WBBZ 1200 Ponca City, Okla.	100	WCBA 1440 Allentown, Pa.	500	WDRC 1330 Hartford, Conn.	1000
WBCM 1410 Bay City, Mich.	500	WCBD 1080 Chicago, Ill.	5000	WDSM 1200 Superior, Wis.	100

NORTH AMERICAN B. C. STATIONS BY CALLS

WDSU 1250 New Orleans, La.	1000	WFIL 560 Philadelphia, Pa.	1000	WHB 860 Kansas City, Mo.	1000
WDWS 1370 Champaign, Ill.	100	WFLA 620 Clearwater, Fla.	1000	WHBB 1500 Selma, Ala.	100
WDZ 1020 Tuscola, Ill.	250	WFMD 900 Frederick, Md.	500	WHBC 1200 Canton, Ohio	100
WEAF 660 New York, N. Y.	50000	WFOR 1370 Hattiesburg, Miss.	100	WHBF 1210 Rock Island, Ill.	100
WEAN 780 Providence, R. I.	1000	WFOY 1210 St. Augustine, Fla.	100	WHBI 1250 Newark, N. J.	1000
WEAU 1050 Eau Claire, Wis.	1000	WFTC 1200 Kinston, N. C.	100	WHBL 1300 Sheboygan, Wis.	250
WEBC 1290 Duluth, Minn.	1000	WGAL 1500 Lancaster, Pa.	100	WHBO 1370 Memphis, Tenn.	100
WEBQ 1210 Harrisburg, Ill.	100	WGAN 640 Portland, Me.	500	WHBU 1210 Anderson, Ind.	100
WEBR 1310 Buffalo, N. Y.	100	WGAR 1450 Cleveland, Ohio	500	WHBY 1200 Green Bay, Wis.	100
WEDC 1210 Chicago, Ill.	100	WGAU 1310 Athens, Ga.	100	WHDF 1370 Calumet, Mich.	100
WEED 1420 Rocky Mount, N. C.	100	WGBB 1210 Freeport, N. Y.	100	WHDH 830 Boston, Mass.	1000
WEEI 590 Boston, Mass.	1000	WGBF 630 Evansville, Ind.	500	WHDL 1400 Olean, N. Y.	250
WEEU 830 Reading, Pa.	1000	WGBI 880 Scranton, Pa.	500	WHEB 740 Portsmouth, N. H.	250
WELI 900 New Haven, Conn.	500	WGCM 1210 Gulfport, Miss.	100	WHEC 1430 Rochester, N. Y.	500
WELL 1420 Battle Creek, Mich.	100	WGES 1360 Chicago, Ill.	500	WHEF 1500 Kosciusko, Miss.	100
WEMP 1310 Milwaukee, Wis.	100	WGH 1310 Newport News, Va.	100	WHFC 1420 Cicero, Ill.	100
WENR 870 Chicago, Ill.	50000	WGL 1370 Fort Wayne, Ind.	100	WHIO 1260 Dayton, Ohio	1000
WEOA 1370 Evansville, Ind.	100	WGN 720 Chicago, Ill.	50000	WHIP 1480 Hammond, Ind.	5000
WESG 850 Elmira, N. Y.	1000	WGNV 1210 Newburgh, N. Y.	100	WHIS 1410 Bluefield, W. Va.	500
WEST 1200 Easton, Pa.	100	WGPC 1420 Albany, Ga.	100	WHJB 620 Greensburg, Pa.	250
WEVD 1300 New York, N. Y.	1000	WGR 550 Buffalo, N. Y.	1000	WHK 1390 Cleveland, Ohio	1000
WEW 760 St. Louis, Mo.	1000	WGRC 1370 New Albany, Ind.	250	WHKC 640 Columbus, Ohio	500
WEXL 1310 Royal Oak, Mich.	50	WGRM 1210 Grenada, Miss.	100	WHLB 1370 Virginia, Minn.	100
WFAA 800 Dallas, Texas	50000	WGST 890 Atlanta, Ga.	1000	WHN 1010 New York, N. Y.	1000
WFAB 1300 New York, N. Y.	1000	WGTM 1310 Wilson, N. C.	100	WHO 1000 Des Moines, Iowa	50000
WFAM 1200 South Bend, Ind.	100	WGVA 1050 Indianapolis, Ind.	1000	WHOM 1450 Jersey City, N. J.	250
WFAS 1210 White Plains, N. Y.	100	WGY 790 Schenectady, N. Y.	50000	WHP 1430 Harrisburg, Pa.	500
WFBC 1300 Greenville, S. C.	1000	WHA 940 Madison, Wis.	5000	WHA 1280 Madison, Wis.	1000
WFBC 1310 Altoona, Pa.	100	WHAI 1210 Greenfield, Mass.	250	WHB 970 Glenside, Pa.	100
WFBL 1360 Syracuse, N. Y.	1000	WHAL 950 Saginaw, Mich.	500	WHB 1370 Jackson, Mich.	100
WFBM 1230 Indianapolis, Ind.	1000	WHAM 1150 Rochester, N. Y.	50000	WIBU 1210 Poynette, Wis.	100
WFB 1270 Baltimore, Md.	500	WHAS 820 Louisville, Ky.	50000	WIBW 580 Topeka, Kans.	1000
WFDF 1310 Flint, Mich.	100	WHAT 1310 Philadelphia, Pa.	100	WIBX 1200 Utica, N. Y.	100
WFEA 1340 Manchester, N. H.	500	WHAZ 1300 Troy, N. Y.	1000	WICA 940 Ashtabula, Ohio	250

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	WMO 1310	100
Indianapolis, Ind.		Buffalo, N. Y.		Auburn, N. Y.	
WIS 560	1000	WKBZ 1500	100	WMOBQ 1500	100
Columbia, S. C.		Muskegon, Mich.		Brooklyn, N. Y.	
WISN 1120	250	WKEU 1500	100	WMBR 1370	100
Milwaukee, Wis.		Griffin, Ga.		Jacksonville, Fla.	
WJAC 1310	100	WKOK 1210	100	WMSB 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	WMCA 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	WMO 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	WLBL 900	5000	WMIN 1370	100
Gadsden, Ala.		Stevens Point, Wis.		St. Paul, Minn.	
WJDX 1270	1000	WLBZ 620	500	WMMM 890	500
Jackson, Miss.		Bangor, Me.		Fairmont, W. Va.	
WJEF 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	WLMO 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	WNEX 1260	500
New York, N. Y.		Chicago, Ill.		Springfield, Vt.	

NORTH AMERICAN B. C. STATIONS BY CALLS

WNBZ 1290 100 Saranac Lake, N. Y.	WPTF 680 1000 Raleigh, N. C.	WSFA 1410 500 Montgomery, Ala.
WNEL 1290 1000 San Juan, P. R.	WQAM 560 1000 Miami, Fla.	WSGN 1310 100 Birmingham, Ala.
WNEW 1250 1000 New York, N. Y.	WQAN 880 500 Scranton, Pa.	WSIX 1210 100 Nashville, Tenn.
WNLC 1500 100 New London, Conn.	WQBC 1360 1000 Vicksburg, Miss.	WSJS 1310 100 Winston-Salem, N. C.
WNNY 1420 100 Watertown, N. Y.	WQDM 1390 1000 St. Albans, Vt.	WSM 650 50000 Nashville, Tenn.
WNOX 1010 1000 Knoxville, Tenn.	WQXR 1550 1000 New York, N. Y.	WSMB 1320 1000 New Orleans, La.
WNYC 810 1000 New York, N. Y.	WRAC 1370 100 Williamsport, Pa.	WSMK 1380 200 Dayton, Ohio
WOAI 1190 50000 San Antonio, Texas	WRAP 1310 100 Reading, Pa.	WSNJ 1210 100 Bridgeton, N. J.
WOC 1370 100 Davenport, Iowa	WRBL 1200 100 Columbus, Ga.	WSOC 1210 100 Charlotte, N. C.
WOI 640 5000 Ames, Iowa	WRC 950 500 Washington, D. C.	WSPA 920 1000 Spartanburg, S. C.
WOKO 1430 500 Albany, N. Y.	WRDO 1370 100 Augusta, Me.	WSPD 1340 1000 Toledo, Ohio
WOL 1310 100 Washington, D. C.	WRDW 1500 100 Augusta, Ga.	WSPR 1140 500 Springfield, Mass.
WOLS 1200 100 Florence, S. C.	WREC 600 1000 Memphis, Tenn.	WSUI 880 500 Iowa City, Iowa
WOMI 1500 100 Owensboro, Ky.	WREN 1220 1000 Lawrence, Kans.	WSUN 620 1000 St. Petersburg, Fla.
WOMT 1210 100 Manitowoc, Wis.	WRGA 1500 100 Rome, Ga.	WSVA 550 500 Harrisonburg, Va.
WOOD 1270 500 Grand Rapids, Mich.	WRJN 1370 100 Racine, Wis.	WSVS 1370 50 Buffalo, N. Y.
WOPI 1500 100 Bristol, Tenn.	WRNL 880 500 Richmond, Va.	WSYB 1500 100 Rutland, Vt.
WOR 710 50000 Newark, N. J.	WROK 1410 500 Rockford, Ill.	WSYR 570 1000 Syracuse, N. Y.
WORC 1280 500 Worcester, Mass.	WROL 1310 100 Knoxville, Tenn.	WTAD 900 1000 Quincy, Ill.
WORK 1320 1000 York, Pa.	WRR 1280 500 Dallas, Texas	WTAG 580 1000 Worcester, Mass.
WORL 920 500 Boston, Mass.	WRTD 1500 100 Richmond, Va.	WTAL 1310 100 Tallahassee, Fla.
WOSU 570 750 Columbus, Ohio	WRUF 830 5000 Gainesville, Fla.	WTAM 1070 50000 Cleveland, Ohio
WOV 1130 1000 New York, N. Y.	WRVA 1110 5000 Richmond, Va.	WTAQ 1330 1000 Green Bay, Wis.
WOW 590 1000 Omaha, Neb.	WSAI 1330 1000 Cincinnati, Ohio	WTAR 780 1000 Norfolk, Va.
WOWO 1160 10000 Fort Wayne, Ind.	WSAJ 1310 100 Grove City, Pa.	WTAW 1120 500 College Station, Tex.
WPAD 1420 100 Paducah, Ky.	WSAL 1200 250 Salisbury, Md.	WTAX 1210 100 Springfield, Ill.
WPAR 1420 100 Parkersburg, W. Va.	WSAN 1440 500 Allentown, Pa.	WTBO 800 250 Cumberland, Md.
WPAX 1210 100 Thomasville, Ga.	WSAR 1450 1000 Fall River, Mass.	WTCN 1250 1000 Minneapolis, Minn.
WPAY 1370 100 Portsmouth, Ohio	WSAU 1370 100 Wausau, Wis.	WTEL 1310 100 Philadelphia, Pa.
WPEN 920 1000 Philadelphia, Pa.	WSAY 1210 100 Rochester, N. Y.	WTHT 1200 100 Hartford, Conn.
WPG 1100 5000 Atlantic City, N. J.	WSAZ 1190 1000 Huntington, W. Va.	WTIC 1040 50000 Hartford, Conn.
WPRA 1370 100 Mayaguez, P. R.	WSB 740 50000 Atlanta, Ga.	WTJS 1310 100 Jackson, Tenn.
WPRO 630 500 Providence, R. I.	WSBC 1210 100 Chicago, Ill.	WTMJ 620 1000 Milwaukee, Wis.
WPRP 1420 100 Ponce, P. R.	WSBT 1360 500 South Bend, Ind.	WTMV 1500 100 East St. Louis, Ill.

NORTH AMERICAN B. C. STATIONS BY CALLS

WTNJ 1280 Trenton, N. J.	500	XEBK 1000 Nuevo Laredo, Tams.	60	XELA 1240 Sattilo, Coah.	50
WTOC 1260 Savannah, Ga.	1000	XEBL 1220 Mazatlan, Sin.	50	XELO 670 Tijuana, B. Cfa.	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 Mexicali, B. Cfa.	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. Cfa.	100000
W8XO 700 Cincinnati, Ohio	500000	XEE 1210 Durango, Dgo.	50	XERO 670 Chapultepec, D. F.	.....
XEAA 750 Mexicali, 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 Torreón, 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 Mexicali, B. C.	250	XEFO 930 Mexico City, D. F.	5000	XEX 1310 Monterrey, N. L.	125
XEAP 1240 Obregon, Son.	50	XEFV 1210 Juarez, Chih.	100	XEXB 1270 Jalapa, Ver.	50
XEAS 1160 Sattilo, 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 Morelia, 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. Cfa.	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, W8XX, 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-

- ges, 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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