

THE NOVEMBER 1935

RADIO INDEX

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No. 93



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November 1, 1935



RADIO IN DEX

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FRED CLAYTON BUTLER
Editor and Publisher



B. FRANCIS DASHIELL
Technical Editor

CARLETON LORD
DX Editor

PAGE TAYLOR
Short Wave Editor

TWELFTH YEAR

NUMBER 93

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\$2.00 Per Year

Outside of the U. S. A. \$2.50 Per Year

25c Per Copy

See Subscription Blank on Page 112

Published Monthly Excepting July and August

THE RADEX PRESS INC.

Publication Office: - 326 Penton Bldg., Cleveland, Ohio

Editorial and Advertising Office: - - Conneaut, Ohio

Entered as second-class matter April 23, 1931, at the post office at Cleveland, Ohio, under the Act of March 3, 1879.

Printed in the U. S. A.

The SHORT WAVE NEWS

of the Month

• • • By PAGE TAYLOR

A WELCOME letter from Guatemala contains valuable information on shortwave stations in that country. Sr. Heberto Correa, Station Director of Radiodifusora Nacional, writes, "Please be advised that the following shortwave stations exist in the Republic of Guatemala: TGWA, 6000 kc/s., 300 watts, of the Radiodifusora Nacional. TG1X, 9450 kc/s., 200 watts, an experimental station of the Ministerio de Fomento, and TG2X, 5940 kc/s., 200 watts, of the Policia Nacional. All these stations are subject to the control of the Ministerio de Fomento. I am pleased to state that we verify all reports except reports in which reception is not proven. Stations TGW-TGWA (Radio Nacional) are on the air from noon to 1 p.m., EST., 6:30 to 7:30 p.m. and 9 to 11 p.m., daily except Sundays. On Sundays only the noon-day program is given. On Saturday nights the program continues until 6 a.m. with a special marimba concert. TG1X carries these same programs but as yet is not operating regularly. It will, however, eventually be in permanent service with directional antennae. TG2X of the National Police is on the air nightly from 9 to 11 p.m., EST.

"Other stations not pertaining directly to this office are those of the Liberal Progresista, a daily newspaper, as follows: TGX, 1400 kc/s and TGXA, 6130 kc/s., both with 20 watts power."

A Request from Switzerland

"My homeland, Switzerland, has asked me to spread the news about their special shortwave offerings," preambles Rudolph Kure, 367 Amazon Ave (Clifton), Cincinnati,

Ohio. "The letter I have from them follows:

"It may interest you to learn that our Society is going to radiate special broadcasts on the first Monday of every month, dedicated mainly to our countrymen abroad, which will go over several stations of the Swiss Shortwave Association (USKA) and also over the Society of Nations stations at Prangins, at the following times: From 3:10 to 4:15 p.m., EST: station HB9B, 14236 kcs.,

aerials directed to North America. station HB9H, 7005 kc/s., using an omnidirectional aerial station HB9J, 14400 kc/s., direct-



The new 490-foot vertical antenna tower of Station WMAQ, now the oldest of the Chicago stations. This tower is located 25 miles west of the Chicago loop at Bloomingdale, Ill.

ed to South and Central America.

'In order to secure world-wide reception these same programs will be repeated on the same day between 6 and 7 p.m., EST, by the Prangins stations HBL, 9595 kc/s. and HBP, 7797 kc/s. The following USKA stations will transmit simultaneously with the Prangins stations:

HB9B, 14236 kc/s. to North America.

HB9AT, 14290 kc/s. to Netherland India.

'We will answer every report of reception. If reception reports are numerous enough to satisfy us we have a large international audience we will be encouraged to continue and extend these broadcasts.' "

We understand reports on these broadcasts should be addressed to Swiss Shortwave Association (USKA), 30 Neuengasse, Berne, Switzerland. The programs will be transmitted on Nov. 4, Dec. 2, Jan. 6 and Feb. 3.

From the North West

"As I very seldom see reports from the State of Washington a few remarks might be of interest," contributes Anthony C. Tarr, Fort Lewis, Wash. "I reached out on 19-meters the other day and got HVJ with a test program at 1700 EST. They transmitted music and announced as Radio Vaticano. They left the air with the phrase Laudatur Jesus Christus. This station is heard well at this time and it seems they should transmit more often. In a former issue of RADEX it was stated that the German stations wondered if they were heard on the West Coast. Well, DJD is. DJD is not as good as Pointoise, but it is much better than the English stations. I would like to correspond with DX fans in the Northwestern States and with the secretaries of some DX Clubs." Mr. Tarr contributed a wealth of information on forestry and police stations in his state, all of which has been incorporated in our lists.

Below the Rio Grande

Official information on two stations follows. The Compania Radiofonografica, Apartado 197, Guadaluajara, Jal., Mexico, states they have a shortwave station XEDQ relaying the programs of XED. XEDQ works on 9520 kc/s. from 8 to 9 a.m. and from noon to midnight, CST daily.

Mr. Perry Girton, Apartado 225, San Jose, Costa Rica, gives the call letters of his station as TI2PG, but the station always announces simply as TIPG, "La Voz de la Victor." TIPG has a power of one kilowatt, according to its owner, and works daily from 5:30 to 10:30 p.m., CST.

The Alaskans

RADEX is indebted to Ashley V. R. Walcott, 76 San Rafael Way, San Francisco, Calif. for nearly all its information on the Alaskan stations. As these stations are seldom reported, even in Alaska, the paragraphs following should be highly interesting. "One of the more powerful Alaskan stations is Coastal Harbor KDK at Wrangell, owned by A. R. Brueker. This station, on 2538 kc/s. works with KIJB at Cape Pole on 2994 kc/s. at 10:30 p.m., PST every night; then with WLFP, the M. S. Alaskan on 2566 kc/s.; then with KLA at Waterfall on Dall Island, KFF at Union Bay and KLD at Hidden Inlet. On 4610 kc/s. there are a few stations in the forestry service, KMYA at Juneau and KMYB, location not known. These stations also work on 2304 with KBAI at Ketchikan. The Two Brothers Mining Co. (Canada) operates several stations near 4500, among them VDC at Calgary, VDV at Two Brothers and VDW somewhere in British Columbia."

When to Tune

James Maguire, 312 Devenish Apartments, Calgary, Alta, reports WVD, Seattle on 8620 working with WXA at Juneau, Alaska on 8050 near 10 p.m. MST. Melvin M. Hill of 278 Collingwood St., San Francisco, re-

ports the same stations, giving the time as 6-7 p.m. PST. The stations state in verifications, however, that they have no regular schedules so we suggest listeners tune between 8 p.m. and midnight, EST (2000-2400).

Mr. Maguire's letter continues: "The correct address of VE9CA is the Toronto General Trust Bldg., Calgary. HJ4ABE uses three chimes like the NBC, and a regular feature of their broadcasts is a 30-minute talk from 10:30 to 11 p.m., EST, in English about the Republic of Colombia. VE9GW is now CRCX, a Canadian Radio Commission station, with 500 watts. The frequency of VPD, according to my veri, is 13075. A new Panamanian was heard testing on 6070. It is HP5EH at Colon."

Mr. Hill of San Francisco writes further, "I note that WXH is listed on 6662 kc/s. I have a recent verification giving the frequency as 2604 and their daily schedule as 1130, 1430, 1600, 1900 and 1930 EST. On this schedule they frequently contact ships in Alaskan waters which operate on 2738 kc/s. Two of these ships are WDDQ, the Zopora and KJCN, the Bandon. I would like to have information on the frequencies and schedules of WXE at Anchorage, WXP Fairbanks. WTQ Wrangel and WXY at Nome."

A Report from Britain

"I have all the USA stations except W9XAA verified, and some other veries include YV6RV, YV5RMO, PRA8, VQ7LO, HP5B, HJ3ABH, COH, COC, COCD, YV2RC and the Aussies," summarizes R. T. Coales, 54 Chelsea Road, Southsea, England. "Several of these were heard on my little bed-side set, home constructed, my motto being, 'Do your a.m. DXing in comfort!' I have been concentrating on the 20-meter phones as I find most of the hams are quite fascinating talkers, and at the same time it is a quick way to obtain a goodly crop of QSL's. I have 154 American hams verified in all Districts except the 6th and 7th."

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Mr. R. Abella of Cuba writes to assure us that he believes the short-waves really are the Thrill Bands. "Here is the proof!" he says. "I am in the worst place in the world for radio reception due to the crazy stations of Cuba that move and modulate at their own will, causing all the trouble they can. I have to tune the shortwaves. The long ones are impossible with the terrible noise our 30 stations make day and night here in Havana. I have been able to listen to 85 s.w. stations in 4 months, from Europe, Asia and the three Americas, all of them well identified, using a 6-tube G-E set and tuning just a few hours a day."

Regarding W9XBS

A large number of readers report W9XBS on 6425 kc/s. According to Arthur Viner, 5554 Kenwood Ave., Chicago, Ill., this is an experimental station of the NBC in Chicago. W9XBS welcomes reports and will verify correct reports accompanied by postage. The address is the National Broadcasting Co., Merchandise Mart, Chicago. A few years ago this station was known as W9XQ and it is probable this call may be heard again, or the regular call sign W9XF.

New licenses issued by the Federal Communications Commission include one to the Atlantic Broadcasting Corp. (the CBS), operators of W2XE, for additional frequencies of

17,760 and 21,520 kc/s. The World Wide Broadcasting Corp. of New York, owners of W1XAL at Boston, have permission to increase the power of 1XAL to 10 kw. Construction of the new Honolulu broadcasters is progressing rapidly and they should be on the air soon relaying KGU.

Hearing the Russians

"There has been quite a Russian jamboree in the vicinity of 19 meters all summer, and at present," reports Geo. Acker of Wadsworth, Ohio. "There is RRR1 at Khabarovsk on 15970 kcs., RIM at Tashkent on 15250 and RKI at Moscow on 15040 and 15090. All three have been heard with R8-9 signals many mornings, particularly the latter two. A peculiarity of the Asiatic Russian phones is that they always have women operators, while RKI always has a male operator. The Siberian stations also have a three-beat signal peculiar to them. Java seems to have changed their Saturday morning broadcasts as I hear PMA on 19368 instead of the usual PLE. The programs consist, as usual, of all-Oriental music. PLP on 11 megs. is still used on Sunday mornings."

A List of Amateurs

The number of letters reporting 20-meter amateurs constantly increases and some readers even suggest we list these stations, but this we cannot do. To list all the foreign amateurs we would have to omit Mr. Dashiell's Technical Department and Mr. Lord's DX Section, as well as all the indices. All the amateur stations in the world are listed in the Radio Amateur Call Book Magazine.

"I listened to CEC at Santiago, Chile, for about 20 minutes one Sunday night and in due time was quite pleased to receive from them a nice verification. They state they have a power of 2 kw. COCD is a very good station now, the best of the Cubans." So reports Allan Ford, Portneuf Station, P. Q.

The Best Japanese

"The best Japanese station at this time is JVM," says Bill Bundlie, 614 N. 6th St., Grand Forks, N. Dak. "JVM signs off at 7:40 a.m., EST and have a pretty good signal for about an hour preceding the sign off. WNC at Hialeah, Fla. calls all the stations they work with near 6 p.m., and this is a good time to log some of those South and Central American phones as they all answer WNC in turn. My receiver is a Gloritone 5-tube and would like to hear from others using this make of set."

R. N. Putnam, 920 Twelfth Ave., Fargo, N. Dak. has tuned in several new commercial stations, one of them being RIO, at Baku, USSR, on 10.180 megs. RIO is heard calling Moscow at 11:15 p.m., EST with an R6 signal but rapid fading. The station he reported last month has been identified as IRG at Massawa, Eritrea, on 14.710 megs.

New Frequency for YV2RC

Important news from Edgar J. Anzola of YV2RC! YV2RC will change its frequency to 5800 kc/s. immediately.

Another letter from R. Abella of Marianao, Cuba, states he hears HJ4ABD, Medellin, Colombia, on 6060 kc/s. He calls the 6 megacycle band a "radio revolution," liking it to the periodical revolutions in Cuba. We are glad to note that there seems to be a slight tendency on the part of some stations to move from the 48 meter band. It is hoped that all the stations do not move into the same spot, however.

Dick Wise, 515 Sixth Ave., Cedar Rapids, Iowa, suggests that more owners of Crosley sets report on their reception. "I am using a 10-tube 1935 model with a 20 foot aerial," he says. "I have had this set about two months and so far have heard 56 shortwave stations. I consider this as good reception for a beginner, especially because I am only four

(Continued on page 25)

When Good Sets Get in Trouble

• • • *By the* TECHNICAL EDITOR

MANY of our readers carefully study their receivers and make comparisons with other sets. This is evidenced by an inquiry from Mr. W. H. Llewellyn, of Durham, N. C., who writes: "The new Philco 116X uses the following tubes: 2-77s, 3-78s, 1-76, 1-37, 1-5Z3, 1-42, and 2-6A3s. Now my Philco 500X has the same chassis exactly, but uses two 42s in place of the two 6A3s. I presume this is the case because my set has three 42s instead of the one as in the 116X. Is it possible to substitute 2-6A3s for my 42s? If so, will I notice any improvement in the tone of my set? How shall I make the change?"

Mr. Llewellyn's inquiry is a natural one, for, when he looks over the 116 and 500 circuits he finds them similar except for the power output tubes. That is, he thinks the circuits are similar, until he begins to figure out values and try to match impedances.

The output tubes, the output transformer and the speaker are all designed for use with one another. When output tubes are changed to different types it is therefore necessary that we consider replacing the output transformer as well as the speaker. Of course, while it may be possible to find an output transformer that will match the tubes, the cost of the job would not justify the results.

Any change of design of this nature is not recommended unless all of the requirements are carried out. For example, if tubes are used which have a greater output than the original ones, additional power should be obtained from the power supply by making some changes. There are many factors effecting any such change. New sockets would be re-

quired, and several wiring changes to the sockets. The 42 type tubes in your set give as good results as you can get with 6A3s in your present set even if additional changes are made, and we do not recommend the effort.

National SW5 Is Noisy

Mr. J. G. Tate, who lives in Ardmore, Penna., has a National SW5 receiver. He writes: "This set works nicely on code but when I turn the volume control down for phone stations the set crackles and makes a terrific noise. A new volume control was put in but it is the same. There is no noise on c.w. code."

This action in a c.w. receiver is an indication of instability of the high frequency section. An r-f filter in the detector plate lead may be some benefit. Loss of emission of the tubes sometimes causes this same trouble. Be sure that the detector and especially the regenerative control is properly bypassed. Adjust the detector plate load for the smoothest possible regeneration by varying the plate voltage until you find the proper value, or by placing a resistor in the plate circuit and varying this until the correct results are obtained.

Evidently you have no trouble in obtaining oscillation from the circuit for reception of c.w. signals, so be careful that you do not destroy the regenerative qualities of the circuit by making the above suggested variations.

Hum and Distortion

One of the small, universal a.c.-d.c. sets—a De Wald 5-tube receiver—is giving Griffith Sechter, of Allentown, Pa., a bit of trouble. But his complaint is not new, most all set owners make it sooner or later. However,

we will publish his letter, in part, as follows: "Hum persists and at times it completely drowns out reception. Then amateur reception is distorted and never clear. The set receives no police calls."

We have discussed hum a number of times in these columns, but since no two sets have the same characteristics, your Editor feels that the subject of hum is of general interest and will confront radio users for years to come.

In this case we think that the two symptoms mentioned by Mr. Sechter both point to a common trouble and especially alignment. While some hum is expected from such small receivers because of the limited filtering systems used, this amount should not be objectionable. One of the first indications of poor adjustments outside the loss of sensitivity and selectivity is the production of unusual hum. This is almost always accompanied by distortion of the type you have mentioned.

Poor adjustment is also accompanied usually by a distinct carrier "hiss" which may or may not be true in this case. There are of course numerous sources of hum in any receiver, such as low and faulty emission from tubes, incorrect bias voltages, incorrect plate voltage, failure to obtain proper ground for the filaments of the set, faulty filter condensers, resistors that have changed in value, etc.

The fact that the tubes and i.f. transformers are close together have little or no effect in this case. However, failure of any of the shielding or of the condenser rotors to make good contact with the chassis will cause hum. We suggest that this is a case for a serviceman who can test out the parts along the lines suggested above and readily locate the defective part or parts.

Push-Pull Seems Defective

"I have a Crosley Showbox," writes one reader who appears to have had

a bad fright as he signed his name, "and in the final stage is a pair of type 71 push-pull tubes. When the speaker is normally connected the music and sound is weak and mushy. But removing either of the 71s clears it up. Replacing the 71s with new tubes does no good, but the set works satisfactorily when I use 01s in this final stage, except for hum. A serviceman checked up the set and all circuits seem o.k. The set uses an impedance instead of a transformer output."

From your description the suggestion arises that the resistor used to bias the output tubes has changed in value. It has probably doubled or increased to much greater than normal. Now, when you remove one of the output tubes, the biasing current through this resistor naturally reduces to one-half normal and the bias voltage also reduces to half that impressed on the two tubes. The fact that, except for the hum, the 201-A tubes work all right in this circuit further substantiates this analysis. Resistors frequently change in value due to heat and breakdown and have to be replaced. In fact, if resistors and bypassing condensers in radio sets were absolutely fool-proof there would be little or no work for servicemen.

Receiver Is Noisy

Mr. Arthur Hutchinson, of Royal Oak, Mich., writes the kind of inquiry we enjoy reading. In brief, he states: "I have been enjoying quiet reception when suddenly my radio developed a loud crackling static-like noise. All tubes have been checked and replaced. Set is sensitive and selective and tone is good. The statomit controls this noise; volume control does not reduce it; still noisy when statomit tube is removed from socket; makes less noise on distant, weak stations even when volume is turned on full; noise is not continuous, and is almost quiet between sta-

tions. The set is a 16-tube Midwest."

Your analysis clearly helped us in making a diagnosis. The trouble seems definitely to be limited to the audio system of this receiver and is nothing at all serious or expensive to repair. Because of the location this greatly simplifies the matter as it seems certain that the trouble is due to one of the audio coupling condensers. There are two of these, one being in connection with the tone control. The latter will probably not be found at fault.

Philco 86 Has Mushy Intervals

"I have a model 86 Philco," writes George H. Rains, from Mt. Ayr, Iowa. "It fades very badly and the voice goes mushy at intervals. I have just installed new tubes, power transformer, and condenser block, which a local serviceman suggested, but to no avail and the set is as bad as ever. The repairman is now at a loss as to what to do. Can you help us?"

The first place to look for this trouble is in the values of the series plate resistors of the r.f. tubes. There are three of these in series and if any one has become defective or changed in value this trouble will occur.

Have the serviceman see that the circuit is accurately neutralized. Changing tubes may make this necessary. To avoid the possibility of trouble due to the grid leak, which cannot be adequately tested by ordinary means, a change to power detection is recommended.

This may be done by removing the grid condenser and grid leak and placing a 35,000 ohm resistor in the cathode of the detector shunted by a .1 mfd. condenser. Inspect and clean the phone jack and test both of the audio transformers. We think that this general checkup will likely clear up your difficulty.

Edison C2 Acts Queerly

The Edison C2, which also plays phonograph records, was an elaborate

and expensive piece of apparatus when it first appeared. Mr. Edwin F. Dreher, of Novato, Calif., has one of these sets. He writes: "This set had excellent selectivity, but now this action is greatly impaired. It was shipped back to the factory and repaired, but they have been unable to restore the good, original selectivity. Now, when I switch to the phonograph I find it gives signals from local radio stations. There are other noises, like static, and code appears on the phonograph side."

Let us first consider selectivity. Make sure that wires leading to the coils are not corroded and that good soldered contacts are made. Clean and tighten all friction contacts. Make sure that the r.f. coils are in the center of the shields, and make sure that the shields are securely grounded. Tubes in the r.f. stages should be free from gas content. Moisture in the primary of the r.f. coils will cause trouble as it provides a leakage across the coils and reduces resonance. The coils may be heated by placing in an oven of about 130 degrees for 10 to 15 hours. A mixture of half beeswax and half rosin is melted and brushed over the coils. Allow them to cool slowly. The grid suppressors in this set should have constant values of 600 ohms and should be checked and replaced if necessary.

If these directions are followed the coils should be restored to original selectivity. Make certain the shields are not dented or twisted in any way, as this will change the original dial selectivity and station setting and then little can be done to return to the original station readings.

It will be well to shield the wire leading from the antenna to the pick-up changeover switch. It is evident that some high resistance leakage across the various elements of this switch account for the radio signals being heard on the phonograph position. You might bake out this

switch and impregnate these switch dielectric units as you will for the coils.

Also, in spite of tests of various by-pass condensers, it might be well to replace them with a good make. As there are only a few of these the work will not be difficult or expensive. Sandpaper the resistance wire on the two filament potentiometers and apply a bit of vaseline and adjust under operating conditions. The static you seem to hear may be due to instability. A faulty adjustment of the tuned circuits or defective parts may account for this noise. In spite of all the work that has been done, we have no assurance that the set is perfectly aligned and adjusted.

Try 1.0 or 2.0 mfd. condensers from each side of the heater or filament of each r.f. and detector tube to ground, or center-tap to ground. This will, under most conditions, remove the hum you observe. Most of these adjustments must be made simply by trial and error.

S.W. On Philco 111

Mr. James W. Kirksey, of Chattanooga, Tenn., asks: "I have read with interest the article about converting old sets to short waves, and wonder whether my Philco model 111 broadcast receiver could be so converted so that I can get short waves. Also, the description of the Howard receiver interests me, but I do not know where to find one of the sets for inspection."

We would not recommend any attempt to convert a Philco 111 superheterodyne to receive short waves as it would call for a more or less complete redesign of the r.f., oscillator and i.f. circuits. Instead, we suggest that you use a good short-wave converter of some inexpensive make. A combination of a short-wave converter with the Philco 111 receiver should provide a very good short-wave outfit capable of European reception.

The Howard receiver, made by one of the oldest radio concerns in the country, is not widely displayed. We suggest that you write the manufacturers—The Howard Radio Company, Belmont Avenue, Chicago, Ill. They have a new metal tube receiver that covers the range from 540 to 18,000 kilocycles. The 1936 line embraces sets from 4 tubes to 19 tubes.

Auto-Radio Vibrators

Now that so many automobiles are fitted with receivers, it becomes natural that many people do not quite understand the different methods employed to provide operating voltages. Mr. Benjamin F. Larcombe, of Washington, D. C., asks: "Please tell me something about the automobile vibrator and why is it necessary?"

The automobile-radio vibrator is the answer to the obvious question: "How does an automobile radio get the high voltages needed to operate a radio when only a 6-volt battery is available?" In the days of battery radio we had to furnish B current either from B batteries or from a B eliminator. The vibrator takes 6 volts from the car generator and battery and breaks it up into impulses quite similar to ordinary house-lighting alternating current. This alternating current passes through the primary of the set-power-transformer where it is stepped up to the usual high voltages.

Most of us are familiar with a spark coil. It has a vibrator which breaks up the primary current into rapid impulses. These pulsations, producing constantly breaking magnetic fields around its inner, iron core, induce higher voltages in the secondary coil. The voltage is so high that sparks jump across a gap from the secondary winding.

The primary of the automobile-radio transformer has a center tap which is generally connected to the positive post of the car battery. A

spring vibrator is set to buzzing by an independent magnet and coil. This works just like a door bell or buzzer. But the tension of the vibrator is set so that it swings back and forth just 120 times a second, or makes 60 complete cycles per second. This corresponds to the 60-cycle alternating current used in our homes.

The two ends of the primary of the transformer connect to two contact points, one on either side of the vibrator. Now, when the vibrator pulls to the left it makes contact with the left-hand contact and sends the negative side of the battery into the half of the coil primary connected in the circuit. Then the vibrator swings to the right, it breaks this first contact and makes contact to the point on the right and sends the negative battery current into the opposite half of the transformer primary coil. Using the two halves of the primary coil, alternately, causes an alternating magnetic field to flow around the transformer magnet just as it does when attached to a 60-cycle house current. This induces an alternating current of high voltage in the secondary as in any a.c. radio set. This a.c. voltage is rectified and filtered in the usual manner. In other words, the auto radio is an ordinary a.c. radio, but operated from the low-voltage 6-volt d.c. battery current instead of the 60-cycle 110-volt house current, by means of the vibrator which changes the 6-volt d.c. into 6-volt a.c.

Noisy Power Supply

Out in Eureka, Nevada, many of the people have to use current that is generated by a Kohler electric plant together with an additional Fordson driven generator when the demand is great. Mr. Harold W. Gill writes: "When this power is running I get noise and vibration. The current is at 115 volts d.c., and the noise makes reception very unsatisfactory. What can be done?"

Direct current is generated by dynamos that use brushes to collect the current from the commutators. This current becomes noisy, and is known as commutator ripple caused by the make and break vibrations as the current is momentarily broken as the brush slides from one tiny section of the commutator to the next section. It is impossible to prevent this noise, but it can be reduced in intensity by having carefully fitted and sparkless brushes. The use of filter condensers on the generator will absorb the sparking and lessen the noise. Then, too, you can use a line filter at your radio. This will take out much of the noise. Write the Tobe Deutschmann Company at Canton, Mass., for information about their devices used to filter out noises in d.c. power lines.

Using Volt Meter

Joseph Stokes, of Swissvale, Pa., has a 0-60 to 0-300 volts voltmeter which he wishes to use. He asks: "What resistance shunt must I use with this meter when using 300 volts d.c. on it?"

A word about voltmeters will not be amiss. This voltmeter will have three contacts. One, perhaps, will be the negative side. The other two, both, positive, will be marked 60 volts and 300 volts. The negative and the 60 contacts will be used when measuring less than 60 volts, and the negative and the 300 will be used for volts over 60 and less than 300. Mr. Stokes is misinformed about the shunt. No shunt resistant is needed with a voltmeter. Shunts are used with ammeters, because these meters are set directly in series with the current flowing through the circuit. If the amperage is high the meter cannot carry it, so a shunt resistance is placed across the two contacts of the ammeter to carry the greater portion of the current. The size of the shunt is proportional to the current being carried in the line.

Therefore, it is much easier to measure high voltages with a voltmeter connected directly across the line, than to measure amperages by inserting the ammeter in the line.

Using Dry Cells

Up in Moosamin, Sask., Can., dry cells must be plentiful. Douglas Fyke writes: "Is it possible to use two dry cells to get 2.5 volts to run my two-tube short-wave converter so as not to overload my broadcast receiver? This converter uses a 24 and 27 tube."

It is possible to use two dry cells for this purpose. They will soon run down. The two tubes, in parallel, will drain a total of 3.5 amperes at 2.5 volts from the battery. This is too severe a load to throw on two cells connected in series so as to give 3 volts. But, if you connect the two tube filaments in series, the converter then will require twice 2.5 volts, or 5 volts, but only the amperage of one tube, or 1.75 amperes. Four dry cells, connected in series, will give 6 volts. This is one volt too much for the tubes, so a small resistor, wire wound, of 0.6 ohms and 1 watt, in series will cut down the 6 volts to 5 volts. If the two cells register 30 amperes each, then the converter can be operated, theoretically at least, approximately 18 hours.

Loose Speaker

"I have a Philco model 14L set that has become noisy. There is a constant vibration as if the speaker is loose," says Mr. J. L. Cowles, of Columbus, Ind.

In the first place the speaker cone may be cracked or warped, and this would produce a characteristic singing rattle or buzzing. Another possibility is that the speaker mounting has become loose, that the edge of the cone has become loosened or that the voice coil supporting-spider is out of adjustment allowing the voice coil to make mechanical contact with the surrounding pole pieces.

Quite often a veneered cabinet will

cause trouble when the glued material becomes dried out and separated. Defective output tubes, too, cause similar trouble, as they may become gassy and overloaded. Bad tubes or a warped cone call for replacements.

Squealing Grebe

From Leighton, Pa., Paul A. Hamel writes: "When I turn up the volume control of my Grebe, 1930, receiver to tune in a station, I get a squeal. All the tubes, 24, 27, 45 and 80, have been replaced, but that has not helped. What can be wrong?"

Oscillation squealing in one or more of the r. f. amplifier stages of the Grebe 1930 receiver may be traced to one of the following causes: Excessive plate voltage on the 24 tubes; excessive screen voltage on the same; failure of the grid bias resistor bypass condensers; failure of either plate or screen bypass condensers because they are open; incomplete grounding of shielding; poor contact between condenser rotors and chassis; and improper placing of wires as regards control-grid and plate circuits being closely parallel.

Acrobatic RCA-Victor 128

Mr. Joseph Stempel, of Bridgeport, Conn., has one of those temperamental sets. He advises: "I have a new RCA-Victor model 128 all-wave set. It gets weak until I tilt it and then all the volume returns. One of the big condensers gives a popping sound when it is shaken. It sounds a bit like water splashing."

It hardly seems probable that any unit in the set other than the electrolytic condenser on top of the chassis could cause this trouble. There may be an internal shorting that is rectified when the position of the set is disturbed. We first advise replacing the 10 mfd. condenser and then testing all grid return circuits for conduction and proper values. Your serviceman can do this in quick time.

Tone Control

"How can I install a tone control in my Grunow 550 receiver?" asks D. A. Heisley, Jr., from Harrisburg, Pa.

A tone control may easily be added to the Grunow 550 5-B chassis. Place a 0.1 mfd. fixed condenser in series with a 100,000-ohm rheostat or variable resistor which in turn is placed in series between the second detector plate and the grounded chassis. There are, of course, other places where this tone control can be attached, such as from any of the audio-amplifier tube grids to the ground, but the greatest effectiveness is obtained from the connection between the second detector plate and the ground.

Interference Aboard Ship

IN the September issue, I read a wail from Mr. Pringle of the SS 'Tahchee,'" observes David Carruthers of the SS "Standard." "His complaint seems to be the noises picked up from the ship power-plant, etc. I shall try to disillusion Mr. Pringle in so far as is possible. I am the radio operator on this ship and have had about twelve years' experience on many vessels and have heard many sets used with more or less (mostly less) success.

"First of all, the trouble is that most ships use DC. I do not think this is as good as AC, especially for the s.w. bands, as the tubes do not get their full voltage. Then the generator supplying this current is comparatively small and the ripple is much greater than would be the case with a large city generator. The filter that would be sufficient for the city generator is inadequate on ship-board. If you filter any more, you cut down the tube voltages still further and impair their efficiency.

"The generator is not the only offender. There are usually three or four fans making a hell of a racket and these are picked up in the antenna (even a doublet). Then, too, there are lots of corroded socket connections which make a devil of a racket. Mind you, all these noises are picked up even if you use a DC-AC converter, as Mr. Pringle says he did. Seems all you have to do is to connect to a ship's socket and your troubles begin. The type of set used makes no difference. Some are better than others at picking up signals and broadcasts but they are all excellent at picking up line noises. Using the geegaws sold in fake radio stores and referred to as 'static controls', 'noise eliminators', 'no-stats' and the like, is a sheer waste of money.

"However, Mr. Pringle should not despair entirely. There is one way to get pretty good results—not a cure-all, mind you—but a way to cut down the racket to a minimum. Let him retain his RCA doublet and use a battery-operated receiver. I use a National SW-3 and it's the 'nerts'. I hear everything on it that they write to your magazine about, with a minimum of noise. I know batteries are a bit of trouble and expense. However, sailors don't seem to mind paying through the nose for other entertainment; why kick about paying for radio?

"There are eleven DC sets on board of various makes. Most of them are expensive. They all work as Mr. Pringle says his does although their owners will claim that they are perfect. BUT, exclamation point, they come up to the radio shack to hear Lowell Thomas and the news dispatches. I wonder why? (N. B. The ship's receivers are always battery-operated.)

"I sincerely hope Mr. Pringle and a lot of others will follow my example and stick to batteries. Ship's juice just doesn't do."

Philco's Popular Masterpiece

● ● ● By B. FRANCIS DASHIELL

IN June of 1928, Philco began the manufacture of alternating current radio receiving sets. Those early receivers utilized the then popular "Neutrodyne" tuned-radio-frequency circuit. The novel feature of the first Philcos, however, was the built-in power supply unit. Within one year Philco jumped from 26th place to 2nd place in the radio industry, and by 1930 became the outstanding producer of radio sets. At that time they also began the independent manufacture of tubes. Philco tubes are now standard equipment of all Philco sets. It is useless to attempt to list even the important models made by Philco during the past eight years, for this company has turned out millions of receivers.

The new 1936 model 116 Philco all-wave receiver is presented by the Philco Radio and Television Corporation as its most popular and successful set. The model 116B is a Baby Grand cabinet of walnut and laurel, and is approximately 16 inches wide, 23 inches high and 12 inches deep. The large 116X cabinet is the famous "X" type with inclined sounding board, acoustic clarifiers, and wide-angle sound diffusers. This cabinet is made of American walnut, and is about 27 inches wide, 42 inches high and 13 inches deep. Both of these attractive cabinets are fitted with the 116 chassis.

High Fidelity Reproduction

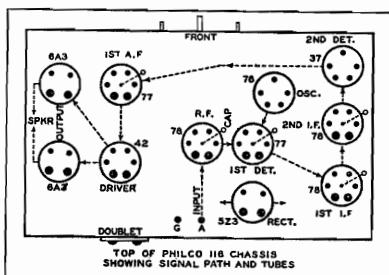
The inclined sounding board was exclusively developed by Philco in 1932, being offered in the old model 90X. The slope of the sounding board directs the high notes up to the listener's ear, and the large area of the board faithfully reproduces the low notes. To this effective sound repro-

duction feature is added the acoustic clarifier that automatically eliminates the booming of bass notes. The wide-angle sound diffusion method spreads the delicate overtones and high notes uniformly throughout the room. Otherwise the high notes would travel out in a straight line and scarcely be heard off to either side of the speaker.

In this set the high fidelity audio system, with its full tonal range, provides an output of 15 watts of undistorted power. The audio reproduction covers the full audible range, and in volume from the faintest whisper to the thunderous roar of a great orchestra. The speaker is the new two-in-one high fidelity unit having a specially designed and treated cone. This cone is constructed in two parts, the stiff inner portion giving perfect reproduction of the high frequencies or treble notes, and the soft outer portion or flexible rim reproducing faithfully the low frequencies or bass notes. This new speaker takes the place of a pair of speakers—one large one for low notes, and one small one for high notes.

The Wave Bands

Every broadcast service on the air is covered by the 116. These embrace

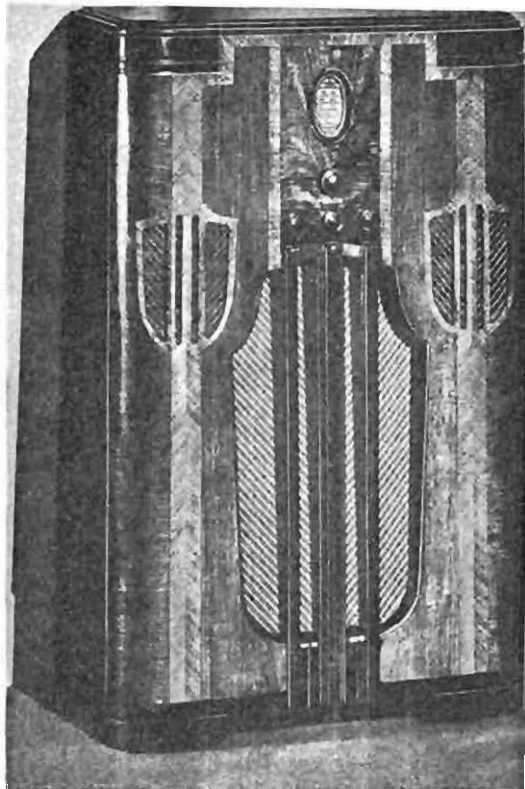


the daylight foreign and American short-wave stations; night-time stations of a similar nature; police, aircraft and ship calls; amateur bands; the standard broadcast band; and a longer wave aircraft, commercial and U. S. Weather Bureau forecast band. These bands have the following frequency ranges: Band 1—9.7 to 22.5 megacycles; Band 2—4.1 to 10.0 megacycles; Band 3—1.5 to 4.1 megacycles; Band 4—540 to 1,500 kilocycles; and Band 5—150 to 390 kilocycles.

The major tone features of Philco model 116 consist of a program control and automatic bass compensation, together with the usual automatic volume control and noise-excluding signal amplifier. The program control enables the operator to adjust the radio to receive each program at its best. These adjustments cover reception of mellow music, brilliant music, speech, normal sound for foreign stations, and noise-reducing reception from weak, distant stations. The automatic bass compensation offsets the lessened ability of the normal ear to hear low notes in true proportion at ordinary room volume. This compensation automatically emphasizes the bass notes when the volume is turned down. The noise-excluding or i.f. filter feature automatically amplifies the signal while rejecting interference, and greatly sharpens the tuning in the i.f. circuit. This gives hairline selectivity on all broadcasts, when needed, and tends to eliminate interference but at some sacrifice of high fidelity of tone. No crystal filter is used in the Philco 116 model.

The Circuit and Tubes

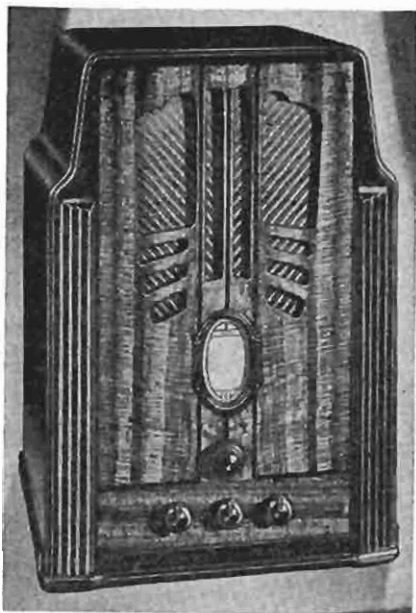
Through the scientific balancing of each unit of the circuit with all others, complete shielding of parts and tubes, and a non-radiating built-in filter that prevents interference going out to nearby sets, the Philco engineers have developed an excellent all-wave superheterodyne set.



The Philco 116-X Receiver

This receiver uses eleven glass tubes, for, so far, Philco has not offered metal tubes in their 1936 models.

The radio signal, as it enters the set through an automatic aerial selector, which will be discussed later, passes into a type 78 radio-frequency amplifier tube. Next comes a 77 first-detector tube. Connected to it in conventional manner is the 76 oscillator. Two type 78 tubes are next in line and serve as intermediate-frequency amplifiers. The i.f. circuit is peaked at 460 kilocycles. Following, is the second detector, a type 37 tube, and next is the type 77 first audio. A type 42 driver tube feeds the output of the 77 into two push-pull power or audio output tubes—type 6A3s. A type 5Z3 is used as a rectifier, and a power-line noise re-



The Philco 116-B Baby Grand

jector keeps line noises out of the set. The receiver has a power consumption of 135 watts, and delivers 15 watts from the output into the speaker.

Tuning and Antenna

Philco shadow tuning shows the operator visually when each station is properly tuned in. The tuning dial is driven by a two-speed planetary selector that gives fast speed for turning and slow speed for precision tuning on short waves. The turn ratio is 80 to 1. A glowing arrow constantly indicates which one of the five wave bands is in use.

Besides the usual antenna and ground contacts, there is a special terminal plate on the rear of the chassis for an all-wave antenna. When the 116 receiver is used with the Philco all-wave antenna, a built-in aerial selector automatically switches into the circuit the proper electrical values needed to maintain

a maximum power input on each of the five wave bands. This aerial selector really provides five antennas in one. The all-wave antenna, then, becomes resonant to the impedance of any one of the five antenna coils connected to the particular wave band being used. It is the same as if five individual antennas, each designed for maximum efficiency with each of the five wave bands in the set, are used, one at a time, as the wave-band changing switch is turned.

The Editor's Column

IN THIS issue the Long Wave and Foreign Broadcast stations are giving way to the Short Waves. In the December issue the former will be back with changes and additional data. We hope that this arrangement of alternating these lists will please everybody. "I was rather disappointed in the September issue," laments Roy Covert, 3940 24th Street, San Francisco; "it seemed as though you were becoming short-wave crazy. But the October issue has completely reassured me that you will remain *All-Wave*."

In a pair of parentheses Roy goes on to say: "I wish you arrived on the news-stands earlier than the third of each month. As a subscriber I receive RADEX on the 26th but a friend of mine is unable to purchase his until the third and so, about the 29th, he begins to borrow mine. If I don't let him take it, we have a quarrel and, if I do, it comes back *sans* cover or otherwise mussed up. Can you possibly do something about this?" The moral is so obvious we don't need to give it: Get your friend to subscribe too; he'll save 50c a year and get his copies early.

Their Time on the Air

In the Index by Frequencies this month, the hours on the air are given for Saturdays. A great many sta-

tions, however, use the same hours for all week-days. An asterisk after the hours indicates that the times given are the same for all six week-days. Next month we will try to show the hours for Monday to Friday inclusive.

In this connection we want again to express our appreciation to the hundreds of stations which filled out our questionnaire and returned it promptly. A small minority of stations, however, were either lazy, indifferent or discourteous. We sent to each station a stamped and addressed envelope and a very short questionnaire and asked them to please have a clerk take one minute of his time to give us the information necessary for us to advise listeners the correct data regarding their station. This seems a small favor to ask when so many thousand listeners look to this publication for their information regarding stations.

Fortunately the number of discourteous stations is very small. Thus on 550, KFYZ, Bismarck, N. D., is the only offender. On 560, KPDM, Beaumont, Texas. On 570, KMTR, Hollywood, Calif. On 580 WCHS, Charlestown, W. Va. On 590 KHQ, Spokane, and WOW, Omaha. And so on through the channels. If we were a radio advertiser, we would certainly not consider it to the credit of a station if it failed or refused to give to accredited sources, all possible information regarding its programs.

Some Cuban Specials

"In consideration of your kind wishes, we have made arrangements to broadcast two special DX programs during November," writes Senor F. Chavarry of Jose Garcia y Cia., owners of CMHX, Cienfuegos. These programs are scheduled for Saturday, November 2nd and 30th from 4:00 to 6:00 a. m. EST. "You might say that to the person who sends us the most nearly perfect report with all observations made during the broadcast, we will send a beautiful Cuban

scouvenir. Of course we will acknowledge all reports with a beautiful post-card but to just one will go the souvenir. We will arrange a typical program combined with talks regarding the city of Cienfuegos and other interesting subjects. Our identification call is 'CMHX, the Radio-Electric-House, P. O. Box 205, Cienfuegos, Cuba.'" We thank CMHX for their cooperation and trust many of our readers will succeed in tuning this station in.

Bogus Inspectors

The sheriff of San Diego County, California, arrested one Jerry Stowell who had equipped himself with a card purporting to be credentials from the FCC. Stowell conducted solemn "inspections" and, in some cases, claimed to find irregularities which he promised not to report for, say, ten dollars. One gullible owner, caught in the "crime" of owning a short wave set, paid Stowell \$15 to prevent its destruction! "The public should beware of imposters," says the Commission. "The FCC inspectors carry a gold badge bearing the seal of the Commission. They are not authorized to destroy radio apparatus or to take any disciplinary action on their own motion."

Some readers complain that we show changes before they take place! We realize that being too early is as bad as being too late. But what to do? The Commission authorizes a station to change its frequency and it is quite impossible to prophesy just when the station will switch over. Sometimes, they never do and we have to jump back into line again. Thus, a number of months ago, the Commission authorized WIS and WNOX to exchange frequencies. We made the changes accordingly but the stations didn't. Now we are advised by WIS "We doubt that the change will be effective before October 15th but it will certainly take place during October." This time, we will wait until the shift is actually made before changing our indices.

Doin's of the Radexers

● ● ● By CARLETON LORD

THE prophet who has no honor in his own country is verily a national hero when compared with the prognosticator who has dared to forecast reception for a winter DX season. Right or wrong, his predictions are held up for scorn and ridicule, and never again may he show his face in public—at least until it is time for another forecast.

In our September issue, we ventured to quote a prominent scientist who had predicted poor reception on the broadcast band for the current season. Judging from the alphabetical display after his name, we figured that he must be the real McCoy. Certainly his arguments were convincing, and we proceeded to gobble them up, hook, line and sinker.

However, we did leave a loop-hole when we recalled that predictions for *good reception* in previous years had proved dismal failures, and we must confess that there was a tongue in our editorial cheek when the copy went off to the printer.

His First TA

"Please predict some more bad reception for the broadcast band," teases M. E. Smith, 259 Chester St., Painesville, Ohio. "On my first night at the dials this season, I pulled in my first T.A. and, if you will be so kind as to keep on with your predictions, I may be able to send in reports like some of the other fellows who write in.

"Yesterday, I worked sixteen hours and, when I got home at midnight, I thought I would sit down and see how much I could hear at this time of year. Well, I certainly was surprised when I came across a strong carrier on 858 keys which turned out to be Radio Strasbourg. Further, I was able to hear strong carriers from Poste Parisien, Cologne and Monte

Ceneri. As I had tried all last year to get anything sounding like a T.A., that satisfied me plenty. If last night was an example of what we're going to hear this year, I will have plenty more to report. Strasbourg was R6-7 at times and, for about five minutes, it was a real R8, so loud and clear that every word could be heard. So, in the interest of DXers everywhere, please predict some more bad reception conditions."

Wrestling With 1YA

"After reading the first article in the September RADEX," bemoans Mrs. L. R. Ledbetter, 605 Mattingly St. Vicksburg, Miss., who seems to have taken us seriously, "I fear that my spirits are much lower than the ionosphere can ever get. Just when I was all enthused about reception of Australia and New Zealand in August, here comes news that poor reception is predicted for the coming winter.

"On August 26th, I heard 1YA, Auckland, New Zealand. Although the signal strength was very good, intelligibility was rather low and I could only distinguish the *type* of program most of the time. They were broadcasting a wrestling match and I could catch such phrases as 'head-lock' 'pulls himself away' and 'tries to get up.' With this start, and considering what I thought was a bad season in 1934-35, I had counted on this winter to bring in Africa to round out the continents and entitle me to a World-Wide degree. But, if this year is to be worse than last, woe is me!"

Predictions Backfire

"Many of the so-called scientists have been predicting bad reception due to sun spots," comments President R. H. Weaver, in a National Radio Club bulletin, "but where have

we heard that line before? If they don't hit it any better than they have in the past, we can look forward to one of the greatest seasons in a long time. Every time they predicted good reception, our hopes for real DX were thwarted by a season filled with too much static for distant stations."

"Contrary to your expressed opinion that 1935 ushers in a period of poorer reception," concludes C. H. Skatzes, 45 Flax St., Delaware, Ohio, "I am accepting the statement of the A.R.R.L. in their Handbook to the effect that 1934-35 brings back a period similar to that of 1923-34, when DX was common on the lower frequencies."

Well, with that sample bombardment of brickbats, our official prognosticator is under fire. If reports on the full season next spring prove that he was again in error, he can consider himself quite fired.

"Would it be possible for listeners to report on stations which won't verify reports on frequency check transmissions?" queries Paul Sampson, 1820 College Ave., Regina, Sask. "I know that KGEK and KASA won't, and it would be useful to know what other stations fall in this class." According to the station, KASA won't verify any reports at all.

On Daytime Reception

"Today I got quite a kick out of turning on the Stewart-Warner at 11:30 A.M.," exclaims Barton A. Dowdy, 2903 Warsaw Ave., Cincinnati, Ohio, "and seeing what kind of daytime DX I could get. In half an hour, I tuned in nine stations in Ohio, four in Indiana, three in Illinois, four in Kentucky, and one each in West Virginia, Missouri, Wisconsin, Tennessee, Nebraska, New York, Pennsylvania, Michigan and Ontario. You certainly 'hung one on me' in your Mid-Summer edition! After discoursing all over the place about reports which failed to give useful data on stations heard, I went ahead and did just that. This just brings out the fault that so many DXers have. We

like to rake the other chaps across the coals and then overlook our own shortcomings. Oh, well, DXers are partly human, so rest assured that your 'rebuke' was received in the same spirit in which it was sent."

"I certainly would be glad," promises Dick Campbell, 72 Griswold St., Delaware, Ohio, "if some veteran of the BCB would tell he how to pull in the Aussies, Japs, South Americans and Europeans. I would like to know how and when and where to tune for them, and I certainly would appreciate whatever help anyone can give me. I am using a 1935 Knight 5-tube superhet. My aerial is 150 feet long, runs NE by SW and is about 30 feet high."

"With a new season coming up," informs Bill Bundlie, 61 N. 6th St., Grand Forks, N. D., "I have decided to DX on the broadcast band as well as short waves. At present, I have logged 112 medium-wave stations and would appreciate having someone write and tell me how to pick up some of the Europeans, South Americans and Aussies such as Vienna, Fecamp, Berlin, Poste Parisien, Breslau, the LR's, CX6, 1YA and 2YA."

How about that article on Tuning the Foreigners in the last issue, Dick and Bill? Did it help any?

What He Likes

"To me, RADEX has been especially valuable with its articles on verifications, aeriels and grounds, and the reports and records of the DXers," applauds William G. Rich, 2134 Acklen Ave., Nashville, Tenn. "Let's have lots more of them. In my four years of off-and-on DXing, I have compiled a log of 454 stations, of which 424 are *distinct* stations and only thirty were re-logged after a change in frequency or location, or both. All but seven of these were heard on a 1931 Philco 7-tube set, without much aerial and usually no ground."

Are More Clubs Needed?

At some time during a career of dial-twisting, a DXer will receive one or more invitations to join some new radio club. In the past few years, the formation of these small groups has been on an increase. While a few, such as the IDA, CDXR and NRC, have taken great strides and are contributing something tangible to DXing, the majority have little to offer and, sooner or later, plunge into oblivion.

DXers are inclined to take sides on the question of new clubs. Some listeners are charitable and maintain that the new organizations can do no harm. Perhaps, remembering the progress of the above clubs, they hope that the newcomers may even help DXing.

Others hold that the ever-increasing number of small clubs is a detriment to DXing and their formation should be discouraged at all times.

Apparently, the principal objection does not lie merely in the organization of a new club. Rather, it is pointed at the activities after the club has started out. If the officers were content to gather news, exchange tips and generally help members to better DX efficiency, there would be no objection from anyone. However, as soon as a club has been organized, it immediately starts after special DX programs. Stations are flooded with requests and demands that transmissions be scheduled for the particular benefit of a handful of listeners.

"Too Many Cooks . . ."

As one station manager wrote to a prominent CPC man, "I believe that you will find that radio stations are not co-operating as they might due to the fact that so many clubs are pestering them for special programs. We don't mind putting on a few DXes every winter, but we cannot dedicate a program to every club in the country. Operators can't be expected to work until 5:00 or 6:00 every Sunday morning and, as soon

as we refuse as politely as we can, the small fry get hot-headed and haul us on the carpet. Naturally, that doesn't raise our opinion of the average DXer. The best thing you chaps can do is get rid of all but the largest clubs and then you'll find the stations glad to co-operate."

Consequently, RADEX is inclined to discourage the formation of new clubs. We feel that there are more than enough clubs today and any more would only tend to increase the confusion.

The Other Side

"I just recently read the letter you wrote Mr. Gail B. Johnson, 1006 So. 2nd Street, Springfield, Illinois," writes Clifford Drain, 617 Camden St., Parkersburg, W. Va., "regarding the new proposed 'Around The World DX Club.'"

"Being a member of this club, I want to present our case to you, for I fear you don't understand.

"This club is to take the place of the now sadly disorganized Keystone DX Club of Pittsburgh, Pa., and members of the former club are joining this new club. So, you see, the 'Around The World DX Club' is not necessarily a new club.

"The dues are to be one dollar a year, and this entitles each and every member to the club bulletin. Please understand also that this club is to be of international character.

"It is the aim and desire of this club and its officials and members to co-operate with all other clubs so as to avoid confusion in regards to DX specials.

"Personally, I think there should not be so many DX clubs, but the only remedy I see is to merge all the clubs and thereby avoid *all* chaotic conditions. Why does not someone campaign along this line? I presume I will probably make someone terribly angry thinking this way, but I will have my opinion."

We may be wrong in our attitude on this score, but we've seen a great many clubs come and go without

making any great contribution to DXing. As in the case of the above-mentioned Keystone DX Club of Pittsburgh—a new one to us, by the way—many were sadly disorganized and died a natural death. Others merged and consolidated.

Objects to Space Saving

"In your DX Calendar," reminds Walter Snyder, 1401 Logan St., Grand Rapids, Mich., "you listed the names of the cities but not the states. It is very inconvenient to have to turn to another index to find which state a station is in. For example, very few people know that Nampa is in Idaho. If you had to look up every station in the back of the book, you'd never have time to do any listening and I hope you can correct this."

"Referring to your mention in the September issue about my results on a one-tuber," affirms Allan Ford, Portneuf Station, Que., "I know full well what tremendous interference can be made by one of these regenerative receivers. For instance, when using but 35 volts on the plate of a 230 tube, a listener five miles away could hear a whistle whenever I tuned in a particular station. Of course, the set was oscillating at the time.

"Naturally, proper care must be used when operating a 'blooper.' Last winter, I picked up WNRA on a frequency check at the same time another DXer, a quarter of a mile from here, was tuning and he only experienced slight interference."

Stealing Signals

Speaking of interference, we are reminded of an article which appeared in World Radio a few months ago. One contributor had been reporting on DX with a crystal set and had mentioned a number of instances of trans-Atlantic reception. In reply, another contributor insisted that such reception could be traced to re-broadcasts by local stations or to re-



In this issue we are presenting some views of the WEAF transmitter equipment. This is the building which houses the main and emergency transmitters.

radiations by a powerful receiver in the neighborhood.

"In the early days of broadcasting," he continued, "the writer's set was a detector with reaction directly coupled to the aerial. A lady living a few doors away had a standard type of crystal set. Normally, only Cardiff was audible on this set when the writer's set was not working. But, happily or unhappily, when I put my set in operation she could hear only the station to which I was tuned—Cardiff, Manchester, London, Brussels, Rome or Madrid—and at considerably more volume than could be expected from a crystal set. One night, via wireless, I heard myself being discussed in connection with a foreign program and was much perplexed when I recognized the lady's voice. This was verified and it was found that if anyone spoke near the headphones attached to her set, the speech was audible in my phones. Further, by talking into my phones, she could hear whatever I said. Thereafter, if the lady did not like the program to which I was listening, in the first lull she would say, 'Can you please put me on to Rome?' and I would reply, 'Stand by . . . over!'"

And we cannot help but wish that there was some way of using this re-radiation idea when a noisy motor is creating no end of interference on

a night we are trying to DX. Wouldn't it be swell if we could say to the motor, "Hold everything, old man. I'd like to hear Australia" and the motor could reply, "Stand by . . . off!?"

The Power of the Press!

Looking over the Index by Frequencies in the September issue, we found that eighteen North American stations had replied to one of our questionnaires to the effect that they would not verify reports of reception. Comparing this with the 686 broadcasters who stated that they would verify, this appeared to be a very small percentage and we were a bit curious to know why this policy had been adopted.

Consequently, we wrote to a few of the stations and asked what their reasons were. The replies received so far are rather interesting. Certainly they bring good news to many DXers.

"I wish to advise you that we have decided to verify correct reports on reception of both of our stations, KTBS and KWKH, provided a report encloses postage necessary for the verification." John C. McCormack, General Manager. The Shreveport Times Stations.

"You state that you received different replies from WEAf and WJZ. Will you please let us know who replied to your previous letters? I am advised by Mr. H. M. Beville, our Chief Statistician, that the Audience Mail Department does verify reception reports for WJZ as well as for WEAf and all short wave stations." William S. Hedges, Manager NBC Operated Stations.

"It has never been the policy of WTAM to issue DX stamps. However, we do try to answer all communications from remote points and verify through our Engineering Department all programs in question." Vernon H. Pribble, Manager, Cleveland Division, National Broadcasting Co.

"Please be advised that KRSC will

verify all correct reports of reception and that our questionnaire stating that we would not do so was in error." Manager, Radio Sales Corp., Seattle, Wash.

"This station does verify reports on receipt of self-addressed, stamped envelope." KSUN, Lowell, Arizona, by R. B. Thompson.

And so we may consider that six more stations are willing to co-operate with DXers in the matter of verifications, and we hope that the remaining twelve will fall in line eventually.

Reports In Brief

"Last season was a very successful one for me," confides J. Russell Graham, 1005 Allard Ave., Apt. 2, Verdun, Que. "Using an eight-tube Sparton Airmaster, I received 516 stations. While I have never heard any Europeans, my logs includes every state, seven provinces, Guatemala, and Haiti. I use a flat-top aerial, 60 feet long and about 50 feet high. Would be pleased to correspond with other DXers."

"The new logging in RADEX is very splendid," compliments Merton T. Meade, 819 Wyandotte St., Kansas City, Mo., "especially the new time system and the inclusion of the power of the S.W. stations. KADA says that they DX the 25th of each month. No time was given, but I believe they start at 0200 EST. KIUL, the new station at Garden City, Kans., DXes the 2nd, 3rd and 4th Wednesday of each month. Again, no time was given, but I have logged them at 0145 and 0255 EST."

"All Cuban stations having but three letters in their call will add one more," advises Alec Kinghorn, P. O. Box 2488, Havana. "COC is now COCO and COH is COCH. CMQ, CMW and CMK will be given their additional letter very soon. CMQ is on the air every morning on 840 kcys from 12:01 to 1:06 A.M., EST, with a midnight dance program. They are very anxious to receive reports. I am often at the mike and announce

the selections. They expect to install short wave equipment in the near future."

On Channel Hogs

"Believe it or not," challenges Ashley V. R. Walcott, 76 San Rafael Way, San Francisco, Cal., "but the Bay District is furnishing two more stations with ideas about 24-hour broadcasting—namely, KRE in Berkeley and KGGC in San Francisco. While this may be good news to those Eastern DXers who have not heard these two stations, it is pretty awful for us here on the West Coast.

"San Francisco already has one all-nighter in KJBS on 1070 kecs. KROW is on until 0200 PST now, while a dozen or so other stations clutter the air waves most of the night, with KGFJ, KFAC and KXL the most troublesome. KEHE is off between 0200 and 0400, while KGDM seems to have given up the all-night idea."

One very definite result of this all-night business is shown in a letter from Paul W. Norris, Program Director of WSOC, Charlotte, N. C., who writes: "Radio Station WSOC does not expect to run any special DX broadcasts during the winter. As you probably know, the 1210 channel is blocked in a good many parts of the country by all-night stations, and the few specials we have run have failed to elicit much response. So, except for monthly frequency check programs and occasional unannounced transmissions for the purpose of checking equipment, we don't have much to offer DX fans."

What To Do

Just how long this channel-blocking on a wholesale basis will continue is pretty much of a question. If the offending stations have their way, there just won't be an end to the nuisance. Apparently, as long as the broadcasters can find sponsors willing to take a chance on there being any listeners to the late programs, it looks as though the channels will be



Here we have the "nerve center" of the Red Network—the master control panel of WEAJ in the NBC headquarters in Radio City. Through this exchange, the various studios are connected with the nationwide networks which carry the programs to stations all over the country.

untenantable for a self-respecting DX program.

At present, at least ten frequencies are effectively blocked insofar as DXing is concerned. As Mr. Walcott points out, the 780, 1070, 1200, 1300, 1370 and 1420 channels are monopolized by KEHE, KJBS, KGFJ, KFAC, KRE and KGGC respectively. A recent letter from KGIW advises that they will come on at 0200 EST every night for a late program. In addition, WEDC holds forth on 1210 six nights a week, WNEW's new 24-hour schedule will make DXing tough on 1250, WEXL gums up the works on 1310, and now WJBK has decided to block 1500.

It will be noticed that the six "graveyard channels," happy hunting grounds of all DXers, are now barricaded most of the time. If a selfish few are permitted to grab all of the air time, DXing is certainly doomed to an early death.

More Reports

"I have just erected my Carl Whitehouse aerial which is forty feet high," proudly proclaims James Dickinson, 2622 Atkinson St., Regina, Sask. "It is supported by 2 x 2's and can be let down to about 26 feet in case of high winds—and we have plenty of them out here. Here is an aerial which I can recommend to any DXer wishing

to receive overseas stations on the BCB. With the ordinary inverted L type, I was not able to go very far. When I erected this aerial, Japan, Australia and New Zealand became comparatively easy to hear. A description of the aerial appeared in the February issue of the IDA Globe Circler."

"I certainly agree with you," exclaims Jack McLaren, 515 Rathgar Ave., Winnipeg, Man. "All DXers should remember to send reports or thank-you cards to stations whenever possible. It seems that the modern tendency is to grab all you can and never mind the other fellow. This applies to DXing, too, and I certainly think we should co-operate with any station which is decent enough to provide us with a DX program.

"Like many others, I am hoping that the cooler months will bring some good reception. I am one of those with a modest log and am looking forward to my first trans-oceanic catch on the medium waves. So far, I have had no luck with the BC stations across the drink, but still live in hopes."

Uses Four Aerials

"Not having seen Kansas City on the report lists for months, I thought it was time to do something about it," contributes M. F. Meade, 819 Wyandotte Street, Kansas City, Mo. "We at the Night Owl Listening Post have been carrying on to the best of our ability and our log now stands at 365 BC stations, of which 327 are in the United States, 17 in Canada, 17 in Mexico, five in Cuba and one in Hawaii. We are still using the Philco four-tuber on the broadcast band, although we have built an antenna tuner which improves reception somewhat. We have four aerials: the first is the "L" type, running 80 feet North-South and 100 feet East-West, approximately four feet above a flat roof; the second is a "V" type running NE-SW, of copper-washed iron wire (we thought it was solid copper and got stung); the

third is an indoor cage which has eight 12 1/2 foot lengths of flat braided copper wire, making 100 feet in all; and the fourth aerial, if you can call it such, is the old reliable bed springs—we use this when the noise gets bad and once pulled in CMQ through an electrical storm.

"We had a bit of diversion this summer by starting a new log the first of each month. In June, we logged 153 stations in 36 states; in July, it was 142 stations in 39 states; and in August, we heard 171 stations in 41 states. In all, we added approximately 25 new stations to our regular log during this three-month period."

Likes His Scott

"I have had one of the new Scott Imperial receivers since the first of August," informs Blake H. Page, 3045 Washington Blvd., Chicago, Illinois, "and I certainly can agree with all that Mr. Dashiell has to say about this model in the October issue. During the first seven days of September, I heard every station on the air for the frequency checks. Even though static is still high. I have heard KGU, KGMB, WKAQ, WNEL, TGW and LR5. I can separate WOR from the powerful WGN and WLW as well as pick up WABC, WEFW and WJZ without a trace of interference from the 50-KW locals on the next channels."

"Final reports on the Inter-Club Co-operation Plan show that the NNRC, CDXR, NRC, GCDXC, IDA, UDXC of Cal., and the Mid-Co DX Exchange have agreed to the provisions," reports Elwin H. Bullard, Drummondville, Que., sponsor of the plan. "I am certainly pleased with the results and feel that I am well repaid for all of the time and effort I have spent."

Aid for Sparton Owners

"I have been fishing for DX stations since 1922 and have logged well over one thousand," confesses Harry Fisk, R.F.D. 2, Jackson, Mich.

"In 1933, I built a 13-tube super and discarded my old log. During the fall and winter of 1934-35 and up to the present time, I have logged 635 stations on this receiver. I am foreman of the test department of the Sparton Radio Co. and would be glad to answer questions about Sparton receivers."

"After six years of DX," observes N. J. Hock, 20 Burnet St., Newark, N. J., "I find that my original antenna system is still the best for reception on the broadcast band. It is a single wire, 100 feet long, running East-West. I have a switching arrangement which permits the selection of this or my other 180 foot aerial at will. The switch also permits me to use my ground—50 feet from the set—in conjunction with either aerial, or both. This combination covers the broadcast band completely for the purpose of getting maximum sensitivity and selectivity from my "Pro." Have not tried the new diamond aerial, due to a lack of space, but would be interested to know how it has worked for other DXers."

DX Calendar Addenda

Attention is called to a few specials which are not included in the November DX Calendar. Although we were advised as to the dates of the transmissions, no mention was made of the times. CKCH, Hull, Que., 1210 keys, 100 watts, will be on the morning of November 30th. WOPI, Bristol, Tenn., 1500 keys, 100 watts, has scheduled transmissions for the morning of November 20th and the third Wednesday of each month thereafter until February. XED, Guadalajara, Jal., 1155 keys, 2500 watts announces specials on the 1st and 15th of each month.

Finally, KGDM, Stockton, Cal., will be testing its new 1-KW transmitter after 0300 EST, on or about November 1st.



The main transmitter room of WEA. At the left are shown the low power units including modulating and frequency control devices. In the left center is the 50,000-watt power amplifier. In right center is the 20,000-volt high power rectifier. At the right is the power control equipment and dummy antenna system.

Short Wave News

(Continued from page 6)

blocks from the loop with its interference."

Two New Police

"There are two police stations which I have not seen listed," complains Robert Levinsohn, 235 Westchester Ave., Crestwood, N. Y. "One of them is WPGF, Providence, on 1712 kc/s. The other is W3XCW, Trenton, N. J. on 1610 kc/s. with a kilowatt power."

From Victor Demerle, 103 Erb St., Buffalo, N. Y., comes this list of stations: WWEC, Delaware Breakwater; WWDL, Edgemoor Depot, Del.; WWDW, Fourteen Foot Bank, Delaware, all on 3410 kc/s. and heard between 7 and 10 p.m., EST. He also reports CT1AA, Lisbon, Portugal, on 5.995 in the evenings and HJV, Bogota, Colombia on 8790 from 7 to 9 p.m., EST.

Merton Thompson Meade, 819 Wyandotte St., Kansas City, Mo. wishes to exchange SWL cards. He says if DXers will send him their cards he not only will send his in return but will pass the names along to others, affording a chance to pick out "pen pals."

DX'ING IN NEW ZEALAND

• • • By H. C. MANN

THE story of DXing in New Zealand dates back practically to the advent of radio receiving sets, although it was not until 1928 that it achieved any degree of popularity. Early in that year, a few listeners logged and verified KFON in Long Beach, Cal. A few months later, KGER was also logged and verified.

The hobby had become so popular in 1930 that several of the more prominent DXers formed the New Zealand DX Club, and a page of the *New Zealand Radio Record* was devoted to the information gathered by this organization.

By July 1931, membership of this club had become so large that it was necessary to introduce a magazine devoted exclusively to DXers and DXing. This was *The Radio Log*, published for the club by the *Radio Record*. In March 1932, *The Radio Log* was incorporated in the new publication, *The New Zealand Radio Times*. This new magazine catered to radio dealers and home constructors as well as DXers.

In March 1931, a small band of Dunedin DXers organized the New Zealand DX Radio Association. For a time they published a fine little magazine, *Tune In*, but last winter this was absorbed by the *New Zealand Radio News*. The membership of this club has now passed the thousand mark, so it is evident that it has become quite popular. *Tune In* has recently resumed publication.

A few years ago, it was quite a feat to log a station from North America, but powerful superhets have now made reception from all over the world quite common. Stations in Europe, Africa, India, China, Japan and South America are regu-

lar visitors to our loudspeakers, while even some of the small 50- and 100-watters in the United States are heard under favorable conditions.

The Sets Used

While the most popular type of receiver used here is the garden-variety superhet, some wonderful results are claimed by owners of modest TRF and battery sets.

The cock-of-the-walk among N. Z. receivers just now is a Majestic, with a verified log of over 550 stations. Following closely are the Philcos, Atwater Kents, Radiolas, Stewart-Warners and a number of models made in Australia and New Zealand.

One outstanding performance is that of a 1925 Radiola Model 20, a battery-operated five-tube receiver. This set is operated by J. L. Sullivan, a very prominent N. Z. DXer, who resides five miles north of Cambridge, about eight miles from my own location. With this wonderful old receiver, Mr. Sullivan has verified over 300 stations in all parts of the world. He has more than 40 veries from Europe alone and has verified at least one station in nearly two-score countries.

When They are Heard

Just as one is accustomed to following a daily routine of existence, so there is a more or less definite schedule for the DXers. For North American reception, we have to consider the time belts. For example, from March to September, stations signing off at midnight, EST, may be heard between 4:00 and 4:30 PM, NZST, the next day. Those stations which sign off at midnight, CST, are naturally heard between 5:00 and 5:30 PM down here. The same applies to the Mountain and Pacific

Time stations. Those signing off at midnight may be heard here between 6:30 and 7:30 PM. Of course, there are exceptions, as in the case of WOAI, which is often heard as early as 3:00 PM.

During the rest of the year, the Eastern and Central stations fall off considerably in volume, while those on the Pacific Coast are occasionally heard just before they sign off at midnight, their time. During our summer months, the Eastern and Central stations can be heard when they sign on in the morning. This is approximately mid-night our time and the Mountain and Pacific stations are heard later. It is at this time that the majority of the 100-watters are heard, due to the fact that most of the Australian and N. Z. stations have signed off and clear-channel reception may be obtained. Of course, static is a major problem at this time of year and it is only on a relatively few nights that such reception is possible.

Other Foreign Stations

The South Americans are best heard from 2:30 to 3:30, and occasionally until 4:30 PM, from April until August. On special DX programs, they may be heard at other times of the year.

The best time to receive Japanese stations is from 10:00 PM until they sign off at 12:30 AM. These are all-year stations with us and may be logged as early as 9:00 PM in our winter. Chinese, Siamese and Indian stations are generally heard from 1:00 to 3:00 AM between March and September.

Though seldom logged down here, South African stations are best heard around 3:00 AM, while those in North Africa come in a little later.

The more powerful European stations are best heard during August, September and October. A few can be heard in July and some are audible right up to December. Instances of European reception in March and

April have been reported, but they are few and far between. Between 4:00 and 6:00 PM is the best time for these stations, when they can be heard with good loudspeaker strength. Unfortunately, fading is usually very bad.

The Aussies, of course, are heard all the year around, varying in strength according to the length of the days. In favorable locations, the more powerful stations are audible even during the daytime in winter.

Mr. Mann's Experience

My first experience in DXing dates back a little over five years. Early in 1930, I acquired an old three-tube battery receiver, and, in six months, I managed to log and identify some twenty-five stations, all being in Australia and New Zealand.

Then, in 1931, I purchased my present receiver, an eight-tube Atwater Kent. During my first week of listening, I experienced the thrill of logging my first trans-Pacific catches in the form of KFI, KGO, KPO, KOA, KGA, KECA, KFOX, KGER and KGEF.

It didn't take long to run up a log of over 20 "Yanks," although it wasn't until the end of June that I reported to my first station. This was KFI, which was testing out its new 50-kilowatt transmitter and asking for reports. Several Central U. S. stations were then heard at excellent volume and were duly reported. Among them were WTAM, KFJF, KTHS, WLS, KMOX, KSTP, KMBC and WLAC.

On July 20, 1931, WLAC was logged while broadcasting a special mission service for foreign listeners from the Church of Christ, in Nashville. Reports were solicited and the announcer said that a copy of the New Testament would be forwarded to all who sent in a correct report. My report was duly acknowledged by the minister, Reverend Brewer, who mentioned that, while no reports had

been received from Australia, twenty-seven N. Z. listeners had written in. Later, a handsome autographed copy of The New Testament was delivered to me.

By the end of 1931, nearly 40 U. S. stations had been reported and quite a number of veries had been received.

Interference Comes

Early in 1932, two high-voltage power lines were erected in the vicinity. These carry 50,000 and 110,000 volts respectively. As these are about ten chains from my aerials, DXing during damp weather is well nigh impossible.

However, despite this interference, I managed to collect a few more scalps. To date, my log reads 82 U. S. stations, of which 62 are verified, as well as two from Hawaii, two Canadians, five Mexicans, one Philippine, one Chinese, seven Japs and two Europeans. My total log is well over 200 stations logged and 157 verified, with a number of reports out.

Conditions being favorable, I hope to increase my log of Europeans considerably this spring. Last October, more than twenty of these were heard, with Prague, Bisamberg, Moscow, Breslau, Heilsburg, Milan, Bari, Bratislavia and Toulouse being received with great volume. Due to a lack of time for DX, I was only able to spend a few minutes each morning and was able to send but four reports.

My best American veris are probably KFVD, KMBC, WMAQ, WLAC, WWVA, WABC and CJOR. I have yet to log my first 100-watter, but I am still living in hopes.

His Aerial and Ground

My aerial is of the inverted L type, about 120 feet in length and just under 40 feet high. Having read about various DXers getting good results with the Beverage type aerial, I erected one 700 feet long and 12 feet high. This ran SW-NE, with the

lead at the NE end. Results were below expectations and I was quite disappointed.

Believing that this type of antenna must be directional, I decided to concentrate on Yanks and point the aerial towards America. However, power and telephone lines interfered and I finally erected another which was pointed towards Australia. Results this time were rather encouraging, signal strength being slightly greater than with the regular aerial. It nothing else, this proved the directional theory.

My ground system consists of several four-foot pipes driven into the ground and spaced about six feet apart. I also have an old copper boiler which is buried to a depth of about four feet. This is kept filled with water and I must say that results have more than justified the trouble involved.

What Is DXing?

● ● ● *By R. H. Weaver*

President, National Radio Club

MOST of us are familiar with the old adage—all work and no play makes Jack a dull boy. We know that the person who lacks some form of diversion eventually reaches the point where he is known as a “crank” or an “old fogey.”

DXing is one form of diversion which many people have adopted as their hobby. It provides that pleasure which breaks the regular day's routine and prevents us from getting out of sorts. It keeps life from becoming a monotony.

Perhaps there are readers who are not familiar with the term DXing. Possibly its best definition is the act of endeavoring to hear radio stations which cannot be heard on their daily broadcasts. Hence, when we “DX,” we try to tune in the stations the reception of which is ordinarily made

impossible by stations transmitting on the same or adjoining frequencies.

Inasmuch as some channels support forty or fifty stations, it can readily be seen that the effort to hear as many of these broadcasters as possible may become a most interesting task.

During the regular schedule of broadcasting, it is usually impossible to hear more than two or three of the stations on the crowded frequencies. Even then, owing to their mutual interference, it is quite difficult to separate one from the other. Therefore, if we are to be successful in our attempt to hear all of these stations, we must choose a time other than the ordinary hours of transmission.

Fortunately, many stations in all parts of the world oblige the DXers by scheduling special transmissions at times when the possibility of encountering interference from other stations is at a minimum. Usually, these programs take place between 2:00 and 6:00 A.M., EST, which is a period set aside by most broadcasters for tests on their equipment.

During these hours, and under favorable reception conditions, it is quite possible to tune in virtually every station on a given frequency. Of course, the number of broadcasters "inhabiting" a channel may result in the reception of a few stations many times, but eventually a listener should be able to hear each and every station with little or no interference from others on the same frequency.

Contrary to popular opinion, DX-ing on the broadcast band is not necessarily limited to stations in the Western Hemisphere. Rather, it is truly a world-wide affair.

At present, many DXers in the United States and Canada have been successful in tuning stations in practically every country in the world. Experienced listeners will go so far as to say that the more powerful foreign stations are within the reach



Robert H. Weaver, President of the National Radio Club, York, Pa.

of virtually any listener, no matter how little tuning experience he may have.

Some people wonder why a station will put on a special program for the sole benefit of a more-or-less limited number of listeners. Other than expense, what does the station get out of the transmission?

Strange as it may seem, the broadcaster *does* derive some compensation. As the result of wide-spread publicity on the part of the various radio clubs, the station is assured of an audience in all parts of the country and the reports of these listeners are often of infinite value to the station officials.

An accurate survey of coverage and signal strength, observations on tone quality and modulation are but a few of the valuable items of information which are gleaned from a DXer's report. As the manager of one station puts it, "The suggestions offered by DXers have enabled us to make many improvements in our equipment. We feel that the cost of putting on the programs and verifying the reports was the cheapest engineering expense we have had in six years of operation."

This year, practically all of the

radio clubs have banded together in a plan which was devised to eliminate interference between stations on these programs. From the standpoint of station and listener alike, reception conditions should be greatly improved as a result.

It is believed that most listeners will find the DX game very fascinating and, to some, an acquaintance with this modern magic carpet will open the door to a keener interest in life as a whole. The hobby is packed with thrills from beginning to end and a complete investigation merely costs the loss of a few hours of sleep. Why not try it sometime?

The Northernmost Station

WHO will be the first to tune in CJCU—that station away up in the vicinity of the North Pole? Dr. J. A. Urquhart, the owner of this unique station, writes Jim Watson, Regina, Sask., as follows:

“This station, with lower power and the call letters of UKZ, has been in operation for several years. With the assignment of all U letters to Soviet Russia, it has been granted more power and the new call of CJCU. The station is situated at Aklavik at the mouth of the McKenzie River, nearly 300 miles north of the Arctic Circle and is, so far as I know, the most northerly broadcasting station in the world. Under the Department of the Interior, I have charge of Eskimo welfare in the western Arctic. The primary function of the station is not general broadcasting but to keep me in communication with my home-base while out on patrol. It is necessary that this station use the broadcast band as I have to use the broadcast sets at whatever point I may be stopping for the night, to receive my messages which are hospital reports, etc., etc.

“While I am on patrol, the station comes on every evening at 8:30 p. m. PST, plays one or two records and then gives me my messages. The trappers in that isolated part of the world became quite interested in our station and we decided to give them local news once a week. We come on for one hour at 8:30 p. m. PST., every Tuesday for this purpose. This, however, is only for the winter months. During the summer I travel extensively by boat which carries radio equipment. CJCU will therefore be off the air until about the end of October when it will again go into service for the winter months. Radio reception and transmission in the Arctic Circle, during the time of continual daylight (that is spring and early summer) is highly unsatisfactory.”

Mr. Watson is endeavoring to get CJCU to put on a series of early morning programs for the benefit of DXers.

The News on the Air

JUDGING from our correspondence, the most-sought-for programs are not jazz, nor bands, nor talks nor drama but merely “The News of the Day.” Even listeners in the large cities with access to the daily newspapers, confess to a fondness for receiving their news while it is still sizzling hot. And out in the mountains, on the ranches and on the high seas, broadcasts of what has happened in the world offer the greatest enjoyment.

Writes Telesfor Znotin, radio operator aboard the M/S Yomachichi, “In one of your issues you listed stations sending out news reports. We found this to be about the best section of the whole magazine as we receive a very limited amount of news on board due to the necessity of subscribing to the news service. If it is possible to publish a section covering stations the world over that send

My DX Corner

● ● ● By Murray Buitekant*



IT SEEMS to me that most DXers are interested in seeing pictures of other listeners and their DX Corners, so I am starting the ball rolling by sending in this picture of my own corner.

The set shown is a 1932 Majestic 10-tube superheterodyne, on which I have logged 709 stations since the receiver was purchased three years ago. Also shown in the picture are some of my best verifications, which include Poste Parisien, Radio Normandie, LR5, CX26, HHK, HIX, CPX, and CP4. I have heard 87 2000-milers, of which 51 are verified.

You may believe it or not, but my aerial is a piece of wire 14 feet long running east and west, and I use no ground whatsoever. There just isn't room at my location for a longer aerial, so that may be the reason why I have yet to hear my first T.P. However, I am still trying.

For DX purposes, I use your Perfect Phone Adapter and can say that it certainly works swell.

*2961 Brighton 8th St., Brooklyn, N. Y.

The WQBC DX Broadcasts

● ● ● By Mrs. L. R. Ledbetter*

ON AUGUST 24th, Station WQBC, Vicksburg, Miss., inaugurated a series of DX Tip Broadcasts to be transmitted at 1400 CST every Saturday afternoon. WQBC has always been alert for new and different programs which might be of interest to readers, and it is the opinion of the station's owners that this new series will hold a particular appeal for a large audience.

The fifteen-minute period will be devoted to the presentation of notices on special DX programs gathered from reliable sources, an exchange of tips and news on DXing and other features of interest to DXers.

Although the time of the broadcast is hardly conducive to a wide-spread audience, listeners within range of the station are invited to send in their own reports on reception conditions.

The transmission of November 9th will be dedicated to RADEX and subsequent broadcasts will honor leading radio clubs.

*605 Mattingly Street, Vicksburg, Miss.

The Frequency Charts

THE diagram which follows is one of a series which began in our May, 1935, issue and which will be concluded in a subsequent number. The complete set of these charts will give in diagrammatic form a picture of the allocation of frequencies to various radio services. These charts should be saved and mounted as they will be of great assistance in tuning, particularly in the short wave field.

8410 - 9550		9560 - 12135		12255 - 13585	
Gov. 8410	8420	RE to 9560	9560 to 9600	Gov. 12255	12270
CTG to 8460	8470	Point to Point to 9610	9600 to 9610	P-P to 12300	12315
Gov. 8470	8480	Point to Point to 9990	9610 to 9990	Gov. 12315	12330
CTG to 8500	8510	Gov. 10000	9990 to 10000	Av to 12345	12375
Gov. 8510	8520	STG to 10010	10000 to 10010	Gov. 12375	12380
Gov. 8530	8540	P-P to 10030	10010 to 10030	STG to 12390	12405
CTG to 8560	8570	Gov. 10035	10030 to 10035	SIGAV to 12420	12435
CTG to 8580	8590	Gov. 10040	10035 to 10040	S to 12450	12450
Gov. 8590	8620	P-P to 10180	10040 to 10180	Gov. 12465	12480
CTG to 8630	8630	AV to 10190	10180 to 10190	STG to 12480	12495
CTG to 8640	8650	Point to Point to 10200	10190 to 10200	CTG to 12495	12525
E to 8660	8670	Point to Point to 11000	10200 to 11000	Gov. 12525	12540
X to 8660	8690	S to 11010	11000 to 11010	CTG to 12555	12600
CTG to 8700	8700	G to 11025	11010 to 11025	CTG to 12600	12615
P-P to 8720	8730	SIGAV to 11040	11025 to 11040	CTG to 12630	12690
Gov. 8730	8770	STG to 11055	11040 to 11055	CTG to 12690	12705
Gov. 8770	8780	CTG to 11100	11055 to 11100	Gov. 12705	12720
P-P to 8800	8810	CTG to 11115	11100 to 11115	CTG to 12720	12750
STL to 8850	8860	CTG to 11325	11115 to 11325	Gov. 12750	12765
Gov. 8860	8870	P to 11340	11325 to 11340	CTG to 12780	12795
Gov. 8870	8890	R to 11355	11340 to 11355	Gov. 12795	12810
Gov. 8890	8900	CTL to 11400	11355 to 11400	CTL to 12810	12840
P-P to 9020	9030	P-P to 11415	11400 to 11415	E to 12840	12855
Gov. 9030	9040	Gov. 11460	11415 to 11460	X to 12855	12870
Gov. 9040	9050	Gov. 11475	11460 to 11475	Gov. 12870	12900
Point to Point to 9060	9080	P-P to 11490	11475 to 11490	P-P to 12900	12915
Gov. 9080	9090	to (10)	11490 to (10)	CTG to 13035	13050
Gov. 9100	9110	R to 11685	(10) to 11685	CTG to 13050	13080
Gov. 9110	9120	E to 11700	11685 to 11700	Gov. 13080	13095
Gov. 9120	9130	Gov. 11715	11700 to 11715	CTG to 13095	13155
P-P to 9240	9250	Gov. 11730	11715 to 11730	P-P to 13155	13170
Gov. 9250	9260	RE to 11745	11730 to 11745	CTG to 13170	13195
Gov. 9260	9280	to (11)	11745 to (11)	STL to 13200	13200
Gov. 9280	9285	Gov. 11906	(11) to 11906	Gov. 13200	13275
Gov. 9285	9290	P-P to 11910	11906 to 11910	Gov. 13275	13290
Gov. 9290	9295	P-P to 12000	11910 to 12000	Gov. 13290	13335
P-P to 9430	9440	Gov. 12015	12000 to 12015	P-P to 13335	13350
RE to 9540	9550	P-P to 12045	12015 to 12045	Gov. 13350	13375
Gov. 9550		Gov. 12090	12045 to 12090	Gov. 13375	13380
		P-P to 12105	12090 to 12105	Gov. 13380	13390
		P-P to 12120	12105 to 12120	Gov. 13390	13400
		P-P to 12135	12120 to 12135	P-P to 13400	13540
		to (12)	12135 to (12)	Gov. 13540	13545
				P-P to 13545	13555
				Gov. 13555	13570
				P-P to 13570	13575
				Gov. 13575	13585
				P-P to 13585	13585

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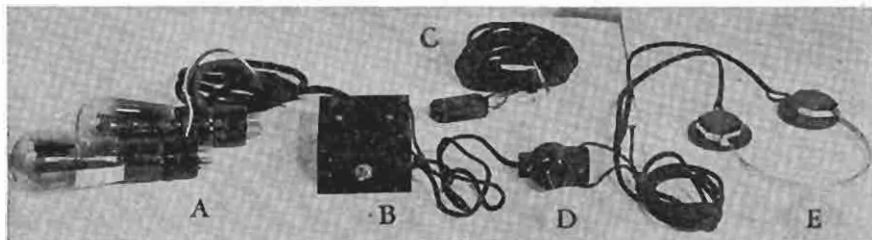
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COLUMBIA.....(C)	
Call	Dial

NATIONAL, Red (R)	
Call	Dial

NATIONAL, Blue (B)	
Call	Dial

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

RADEX is the only publication listing stations in alphabetical order for your convenience.

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

MONDAY

E-6:00 p.m., C-5:00, M-4:00, P-3:00
C — Buck Rogers 25th Century
 CKLW WAAB WABC WCAU WFBL
 WHK WJAS WJSV WKBW WOKO

E-6:15 p.m., C-5:15, M-4:15, P-3:15
C — Bobby Benson
 WAAB WABC WCAU WDRC WEAN
 WFBL WGR WHEC WOKO

E-6:45 p.m., C-5:45, M-4:45, P-3:45
B — Lowell Thomas
 CRCT KDKA WBAL WBZ WBZA
 WFLA WGAR WHAM WIOD WJAX
 WJZ WLW WMAI WRVA WSYR

E-7:00 p.m., C-6:00, M-5:00, P-4:00
C — Myrt and Marge
 WABC WADC WBT WCAO WCAU
 WDAE WDBO WEAN WFBL WGR
 WJAS WJSV WKRC WNAO WOKO
 WQAM WSPD WTOG WWVA

R — Amos 'n' Andy
 CRCT KYW WBN WCAE WCSH
 WFAE WEEL WFBR WGY WJAR
 WLW WRC WTAG WTIC

E-7:15 p.m., C-6:15, M-5:15, P-4:15
C — Vocals By Verrill
 CFRB CKLW KFAB KFH KGKO
 KLRA KLZ KMBC KRLD KRNT
 KSCJ KTSa KTUL KWKH WAAB
 WABC WBBM WBIG WBNS WBRC
 WBT WCAO WCCO WCOA WDAE
 WDBO WDNC WFBL WFBM WFEA
 WGR WGST WHAS WHEC WHK
 WHP WICC WISN WJSV WKRC
 WLAC WLZB WMBD WMBG WOKO
 WORC WOWO WSJS WSMK WSPD
 WWVA

R — Uncle Ezra
 KYW WBN WCAE WCSH WDAF
 WFAE WEEL WFBR WGY WHO
 WHIO WJAR WMAQ WOW WRC
 WSAI WTAG WTAM

B — Ivory Stamp Club
 KDKA KOIL KSO KWK WBAL
 WBZ WBZA WENR WFIL WGAR
 WHAM WJZ WMAI WMT WSYR
 WXYZ

E-7:30 p.m., C-6:30, M-5:30, P-4:30
C — Singin' Sam
 CKLW KFAB KMOX KRNT WABC

WADC WBBM WCAO WCAU WCCO
 WDRC WEAN WFBL WFBM WGR
 WHAS WHK WJAS WJSV WKRC
 WNAO WOKO WSPD

B — Lum and Abner
 WBZ WBZA WENR WJZ WSYR

E-7:45 p.m., C-6:45, M-5:45, P-4:45
C — Boake Carter
 CKLW KMBC KMOX KOMA KRLD
 WABC WBBM WBT WCAO WCAU
 WCCO WDRC WEAN WFBL WGR
 WHAS WHK WJAS WJSV WKRC
 WNAO

B — Dangerous Paradise
 KDKA KOIL KSO KTBS KWK
 WBAL WBAP WBZ WBZA WENR
 WFIL WHAM WJZ WLW WMAI
 WREN WSB WSM WSMB, WSYR

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C — Guy Lombardo and Orchestra
 KLRA KWKH WABC WBIG WBT
 WCAO WCAU WDBJ WDNC WDDO
 WDRC WDSU WEAN WESG WFBL
 WGR WHP WIBX WICC WJAS
 WJSV WLAC WMAS WNAO WNOX
 WOKO WORC WPG WREC WSJS
 WWVA

B — Fibber McGee and Molly
 KDKA KDYL KFI KGW KHQ KOA
 KOIL KOMO KPO KSO WBAL
 WBZ WBZA WCKY WFIL WGAR
 WHAM WJZ WLS WMAI WMT
 WREN WSYR

R — Hammerstein's Music Hall
 KSD KYW WBN WCAE WCSH
 WDAF WFAE WEEL WFBR WGY
 WHO WHIO WJAR WMAQ WOW
 WRC WSAI WTAG WTAM WTIC
 WJZ

E-8:30 p.m., C-7:30, M-6:30, P-5:30
C — One Night Stands
 CKLW KFAB KMBC WABC WADC
 WBBM WBT WCAO WCAU WDRC
 WEAN WFBL WGR WHEC WHK
 WHP WICC WJAS WJSV WKRC
 WLWB WMAS WMBG WNAO WOKO
 WORC WSPD

R — Voice of Firestone
 CFCE CRCT KFJR KPRC KSD
 KSTP KTBS KTHS KYW WAPI
 WAVE WBN WCAE WCSH WDAF

WDAY WFAE WEBC WEEL WFAA
 WFRB WFLA WGY WHO WHIO
 WIBA WIOD WIRE WIS WJAR
 WJAX WJDX WKY WLW WMAQ
 WMC WOAI WOW WPTF WRC
 WRVA WSB WSM WSMB WSOO
 WTAG WTAM WTAR WTIC
 WTMJ WWJ WWNC

B — Evening in Paris
 KDKA KOIL KSO KWK WBAL
 WBZ WBZA WCKY WFIL WGAR
 WHAM WJZ WLS WMAI WMT
 WREN WSYR

E-9:00 p.m., C-8:00, M-7:00, P-6:00
C — Lux Radio Theatre
 CFRB CKAC CKLW KDB KERN
 KFAB KFBC KFPY KFRC KGB
 KHJ KLRA KLZ KMBC KMJ KMOX
 KOIN KOMA KRLD KRNT KSL
 KTRH KTSa KTUL KVI KWG
 WABC WADC WBBM WBNS WBRC
 WBT WCAO WCAU WCCO WDAE
 WDBJ WDRC WDSU WEAN WFBL
 WFBM WGST WHAS WHEC WHK
 WICC WISN WJAS WJSV WKBW
 WKRC WLAC WNAO WNAO WOKO
 WORC WQAM WREC WSPD

R — A. & P. Gypsies
 KSD KYW WBN WCAE WCSH
 WDAF WFAE WEEL WGY WHO
 WHIO WIRE WJAR WMAQ WOW
 WRC WSAI WTAG WTAM WTIC
 WJZ

B — Sinclair Minstrels
 KDKA KDYL KFJR KOA KOIL
 KPRC KSO KSTP KTBS KVOO KWK
 WBAL WBZ WBZA WDAY WEBC
 WFAA WFLA WGAR WHAM WIBA
 WIOD WIS WJAX WJDX WJZ WKY
 WLS WLW WMAI WMC WMT
 WOAI WPTF WREN WRVA WSB
 WSM WSMB WSOO WSYR WTAR
 WTMJ WWNC

E-9:30 p.m., C-8:30, M-7:30, P-6:30
R — Grace Moore
 KDYL KFI KFSD KFJR KGHL
 KGIR KGW KHQ KOA KOMO KPO
 KPRC KSD KSTP KTAR KTBS
 KVOO KYW WAVE WBN WCAE
 WCSH WDAF WDAY WFAE WEBC
 WEEL WFRB WFLA WGY WHO
 WHIO WIBA WIOD WIRE WIS
 WJAR WJAX WJDX WKY WLW

MONDAY (Continued)

WMAQ WMC WOAI WOW WPTF
WRC WRVA WSB WSM WSMB
WSOC WTAG WTAM WTAR WTMJ
WWJ WWCN

B — Princess Pat Players

KDKA KOIL KSO KWK WBAL
WBZ WBZA WCKY WENR WFIL
WGAR WHAM WJZ WMAL WMT
WREN WSYR

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

C — Wayne King's Orchestra

CKLW KDB KERN KFAB KFBK
KFPY KFRC KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KRLD KSL
KVI KWG WAAB WABC WADC
WBBM WBNS WCAO WCAU WCCO
WDRG WDSU WEAN WFBL WFBM
WHAS WHK WIBW WJAS WJSV
WKBW WKRC WOKO WSPD

R — Contented Program

KDYL KFI KGW KHQ KOA KOMO
KPO KSD KYW WBN WCAE
WCBS WDAF WFAF WEEL WFAA
WFBR WGY WHO WJAR WMAQ
WOR WRC WSAI WTAG WTAM
WTIC WWJ

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

C — March of Time

CKLW KDB KERN KFAB KFBK
KFPY KFRC KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KRLD
KRNT KSL KVI KWG WABC WADC
WBBM WCAO WCAU WCCO WDRG
WDSU WEAN WFBL WFBM WGST
WHAS WHK WJAS WJSV WKBW
WKRC WNAO WOKO WSPD

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

C — Manhattan Choir

CFRB CKAC CKLW KDB KFBK
KFH KGB KGKO KHJ KLRA KLZ
KMBC KOH KOL KOMA KRLD
KSL KTRH KTSB KVI KFOR KWG
KWKH WAAB WABC WADC WALA
WBBM WBIG WBNS WBRB WBT
WCAO WDAE WDBO WDNB WDDO
WDRG WFBL WFBM WGR WGST
WHAS WHY WHP WIBW WIBX
WISN WJAS WJSV WKBN WKBW
WKRC WLAC WLZ WMBR WNOX
WOKO WORC WOVU WPG WQAM
WREC WSBT WSFA WSMK WSPD
WTOC

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

C — Myrt and Marge

KDB KERN KFAB KFBK KFPY
KFRC KGB KHJ KLRA KLZ KMBC
KMJ KMOX KOIN KOL KOMA
KRLD KSL KTRH KVI KWG
WALA WBBM WBRB WCCO WDSU
WFBM WGST WHAS WLAC WREC
WSFA

C — Dance Orchestra

CKAC CKLW KDB KFBK KFH
KGB KGKO KHJ KLRA KLZ KMBC
KOH KOL KRLD KSL KTRH KVI
KFOR KWG KWKH WABC WADC
WALA WBIG WBNS WBRB WBT
WCAO WDAE WDBO WDNB WDDO
WDRG WFBM WGST WHAS WHK
WHP WIBX WJAS WJSV WKBN
WKBW WKRC WLAC WLZ WMBR
WNOX WORC WOVU WPG WQAM
WREC WSBT WSFA WSMK WSPD
WTOC

R — Amos 'n' Andy

KDYL KFI KGW KHQ KOA KOMO
KPO KPRC KSD KTHS WDAF
WFAA WHIO WKY WMAQ WMC

WOAI WOW WSB WSM WSMB
WTAM WWJ

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

C — Singin' Sam

KDB KERN KFAB KFPY KFRC
KGB KHJ KLZ KMJ KOIN KOL
KSL KVI KWG

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

C — Dance Orchestra

WABC WBRC WBT WCAO WCAU
WCOA WDAE WDBJ WDBO WDDO
WDRG WEAN WFEA WICC WJSV
WLAC WLZ WMAS WMBG WMBR
WNAO WNOX WORC WREC WSFA
WSJS WTOC

C — One Night Stands

KDB KERN KFAB KFPY KFRC
KGB KHJ KMJ KMOX KOIN KOL
KRNT KSCJ KSL KVI KWG WCCO
WFBM WHAS

R — Voice of Firestone

KDYL KFSD KGHL KGIR KGU
KGW KHQ KOA KOMO KPO KTAR

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

B — Helen Hayes; Drama

KDYL KFI KGW KHQ KOA KOMO
KPO

TUESDAY

E-6:00 p.m., C-5:00, M-4:00, P-3:00

C — Buck Rogers, See Monday

E-6:15 p.m., C-5:15, M-4:15, P-3:15

C — Benay Venuta, Songs

KFH KGKO KLRA KLZ KMBC
KOMA KRLD KSCJ KTRH KTSB
KFOR KWKH WAAB WABC WACO
WALA WBBM WBIG WCAO WCAU
WDAE WDBJ WDBO WDNB WDDO
WDRG WBSG WFBL WFBM WFEA
WGR WGST WHEC WIBX WJR
WKBN WLAC WLZ WMAS WMBD
WMBG WMBR WNOX WOC WOKO
WORC WQAM WREC WSBT WSJS
WSMK WSPD WTOC

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

C — Russian Bear Orchestra

KLRA WABC WALA WBIG WBRB
WBT WCAO WDAE WDBJ WDBO
WDBZ WDDO WDRG WGST WLAC
WLZ WMAS WMBG WMBR WNOX
WORC WQAM WREC WSFA WSJS
WTOC

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 — Myrt and Marge, 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 WJZ WMAL WMT
WSYR WXYZ

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

R — Popeye, The Sailor

KPYR KSD KYW WBN WCAE
WCBS WDAF WDAY WFAF WFCB
WFBM WGY WHIO WIBA WIRE
WJAR WMAQ WOW WRC WSAI
WTAG WTAM WWJ

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

C — Kate Smith

CKLW KFAB KMBC KMOX KRLD
KTRH WABC WADC WBBM WBNS
WBRB WBT WCAO WCAU WDRG

WEAN WFBL WFBM WGST WHAS
WHK WJAS WJSV WKBW WKRC
WMBG WMBR WNAO WOKO

B — Lum and Abner, See Monday

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 — Frank Munn; Lucy Monroe

CKLW KFAB KMBC KMOX KRNT
WABC WADC WBBM WCAO WCAU
WDRG WEAN WFBL WFBM WGR
WHAS WHK WJAS WJSV WKRC
WNAO WOKO WSPD

R — Leo Reisman's Orchestra

KSD KYW WBN WCAE WCBS
WDAF WFAF WEEL WFBM WFLA
WGY WHO WIOD WIS WJAR WJAX
WMAQ WOW WPTF WRC WSOC
WTAG WTAM WTAR WTIC WWJ
WWNC

B — Eno Crime Clues

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

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

C — Lawrence Tibbett

CFRB CKAC CKLW KDB KERN
KFAB KFBK KFH KFPY KFRC
KGB KGKO KHJ KLRA KLZ KMBC
KMJ KMOX KOH KOIN KOL KOMA
KRLD KRNT KSCJ KSL KTRH
KTSB KTUL KVI KFOR KWG
KWKH WABC WACO WADC WALA
WBBM WBIG WBNS WBRB WBT
WCAO WCAU WCCO WCOA WDAE
WDBJ WDBO WDNB WDDO WDRG
WDSU WEAN WFBL WFBM WGST
WHAS WHK WIBW WISN WJAS
WJSV WKBW WKRC WLAC WMBG
WMBR WNAO WNAO WNOX WOC
WOKO WQAM WREC WSFA WSJS
WSPD WTOC

R — Wayne King and Orchestra

KPYR KFRC KSD KSTP KTBS
KV00 KYW WAVE WBN WCAE
WCBS WDAF WDAY WFAF WVEI
WFAA WGY WHO WIBA WIRE
WJAR WJDX WKY WMAQ WMC
WOAI WOW WRC WSAI WSB WSMB
WTAG WTAM WTIC WTMJ WWJ

B — Edgar Guest in Welcome Valley

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

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

R — Ben Bernie and Orchestra

KSD KYW WBN WCAE WCBS
WFAF WVEI WFBM WGY WHO
WJAR WMAQ WOW WRC WSAI
WTAG WTAM WTIC WWJ

B — N.T.G. and His Girls

KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO KSO WBAL
WBZ WBZA WFIL WGAR WHAM
WJZ WLS WLW WMAL WMT
WREN WSYR

C — Walter O'Keefe; Glen Gray

KFAB KFH KGKO KLRA KMBC
KMOX KOH KOL KRNT KSCJ
KTRH KTSB KTUL KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRB WBT WCAO WCAU
WCCO WDAE WDBJ WDBO WDNB
WDDO WDRG WDSU WEAN WFBL
WFBM WFEA WGST WHAS WHEC
WHK WHP WIBW WIBX WICC
WJAS WJR WJSV WKBN WKBW

TUESDAY (Continued)

WKRC WLAC WLBZ WMAS WMBD WMBG WMBR WNAC WPAK WNOX WOKO WORC WOWO WPG WQAM WREC WSBT WSFA WSJS WSPD WTOC

E-9:30 p.m., C-8:30, M-7:30, P-6:30
C — Fred Waring and Orchestra

CFRB CKAC CKLW KDB KERN KFBK KFBK KFH KFPY KFRK KGB KGKO KHJ KLRA KLZ KMBC KMJ KMOX KOH KOIN KOL KOMA KRLD KSCJ KSL KTSa KVI KVOR KWG KWKH WABC WACO WADC WBA WBBM WBIG WBNS WBRB WBT WCAO WCAU WCCO WCOA WDAE WDBJ WDBO WDNC WDOB WDRC WDSU WEAN WFBL WFBM WGST WHAS WHEC WHK WHP WIBX WJAX WJAZ WJWX WJWS WKBN WKRC WKRC WLAB WLBZ WMAS WMBD WMBR WNAC WNAX WNOX WOC WOKO WORC WOWO WPG WQAM WREC WSBT WSFA WSJS WSMK WSPD WTOC

R — Eddie Duchin and Orchestra
KDYL KFI KFSD KFYR KGHL KGRV KWG KHQ KOA KOMO KPO KPRC KSD KSTP KTAR KTBS KVoo KYW WAVE WBAW WBNB WCAE WCSH WDAF WDAY WFAF WIBC WEBC WFBM WFLA WGY WHO WHIO WIBA WIOD WIRE WIS WJAR WJAX WJDX WJWZ WLW WMAQ WMC WOAI WOV WPTF WRC WRVA WSB WSM WSMB WSOC WTAG WTAM WTAR WTTIC WTMJ WWJ WNNC

B — Helen Hayes; Drama
KDKA KOIL KSO KWK KWB WBAI WBZ WBZA WCKY WENR WFIL WGAR WHAM WJZ WMAL WMT WREN WSyr WXYZ

E-10:00 p.m., C-9:00, M-8:00, P-7:00
R — Swift Studio Party

KDYL KFI KFYR KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTBS KTHS KYW WBAW WBNB WCAE WCSH WDAF WDAY WFAF WIBC WEBC WFBM WFLA WGY WHO WIBA WJAR WJAX WLW WMAQ WOAI WOV WRC WTAG WTAM WTTIC WTMJ WWJ

B — Wendell Hall, Songs
CFBC KDKA KOIL KSO KWK WBAI WBZ WBZA WCKY WENR WFIL WGAR WHAM WIRE WJZ WMAL WMT WREN WSyr WXYZ

E-10:30 p.m., C-9:30, M-8:30, P-7:30
C — March of Time, See Monday

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

CFRB CKLW KDB KFBK KFH KFPY KFRK KGB KGKO KHJ KLRA KLZ KMBC KMOX KOH KOL KOMA KRLD KSL KTRH KTSa KTUL KVI KVOR KWG KWKH WABC WACO WADC WALA WBIG WBNS WBRB WBT WCAO WDAE WDBJ WDBO WDNC WDOB WDRS WDSU WFBL WFBM WFEA WGST WHAS WHEC WHK WHP WIBX WJAX WJAZ WJWS WKBN WKRC WKRC WLAB WLBZ WMAS WMBG WMBR WNOX WOKO WORC WOWO WPG WQAM WREC WSBT WSFA WSJS WSMK WSPD WTOC

R — Amos 'n' Andy, See Monday

C — Myrt and Marge, See Monday

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

R — Leo Reisman's Orchestra
KDYL KFI KFSD KFYR KGHL KGRV KWG KHQ KOA KOMO KPO KPRC KTAR KTBS WAPI WAVE WBAW WDAY WIBC WIBA WIRE WJDX WKY WMC WOAI WSB WSM WSMB

C — Walter O'Keefe; Glen Gray
KDB KERN KFBK KFPY KFRK KGB KHJ KLZ KMJ KOH KOIN KOL KSL KVI KVOR KWG

WEDNESDAY

E-6:00 p.m., C-5:00, M-4:00, P-3:00

C — Buck Rogers, See Monday

E-6:15 p.m., C-5:15, M-4:15, P-3:15

C — Bobby Benson, See Monday

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

R — Amos 'n' Andy, See Monday

C — Myrt and Marge, See Monday

B — Eyes Aces, See Tuesday

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

C — Jerry Cooper, Baritone
CKLW KDB KFBK KFH KFPY KFRK KGB KGKO KHJ KLRA KLZ KMBC KMOX KOH KOL KRLD KRLD KRNT KSCJ KTRH KTSa KTUL KRVOR KWG KWKH WABC WACO WADC WALA WBBM WBRB WBT WCAU WCOA WDAE WDBJ WDOB WDNC WDRS WDSU WFBL WFBM WFEA WGST WHAS WHK WIBX WISN WJAZ WJWS WKBN WKRC WMBG WNAC WNOX WOKO WOWO WQAM WREC WSJS WSMK WSPD WTOC WYVA

R — Uncle Ezra, See Monday

B — Stamp Club, See Monday

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

C — Kate Smith, See Tuesday

B — Lum and Abner, See Monday

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

C — Boake Carter, See Monday

B — Dangerous Paradise, See Monday

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

R — One Man's Family

KDYL KFI KFYR KGW KHQ KOA KOMO KPRC KSD KSTP KTAR KTBS KTHS KVoo KYW WAPI WAVE WBNB WCAE WCSH WDAF WDAY WFAF WIBC WEBC WFBM WFLA WGY WHO WHIO WIBA WIOD WIRE WIS WJAR WJAX WJDX WKY WLW WMAQ WMC WOAI WOV WPTF WRC WRVA WSB WSM WSMB WTAG WTAM WTTIC WTMJ WWJ WNNC

C — Cavalcade of America

KDB KERN KFBK KFPY KFRK KGB KHJ KLZ KMBC KMJ KMOX KOIN KOL KRLD KRNT KVI KWG WABC WADC WBBM WCAO WCAU WCCO WDRS WDSU WEAN WFBL WFBM WGR WGST WHAS WHEC WHK WJAZ WJR WJWS WKRC WMBG WNAC WOKO WSPD

B — Life Savers Rendezvous

ORCT KDKA KOIL KSO KWK

WBAL WBZ WBZA WCKY WFIL WGAR WHAM WJZ WLS WMAL WMT WREN WSyr WXYZ

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

B — House of Glass; Drama

KDKA KOIL KSO KWK WBAL WBZ WBZA WFIL WFLA WGAR WHAM WIOD WIS WJAX WJZ WLS WLW WMAL WMT WPTF WREN WSOC WSyr WTAR WNNC

R — Wayne King, See Tuesday

C — Burns and Allen

KFAB KFH KLRA KMBC KMOX KOMA KRLD KRNT KSCJ KTRH KTSa KTUL KWKH WABC WADC WBBM WBNS WBRB WBT WCAO WCAU WCCO WDAE WDBJ WDOB WDRS WDSU WEAN WFBL WFBM WFEA WGR WGST WHAS WHEC WHK WHP WIBX WJAX WJWS WKBN WKRC WLAB WLBZ WMAS WMBD WMBG WMBR WNAC WNAX WNOX WOKO WORC WPG WQAM WREC WSPD

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

C — Chesterfield Program

CKAC CKLW KDB KERN KFBK KFPY KFRK KGKO KHJ KLRA KLZ KMBC KMJ KOIN KOL KSL KTUL KVI KWG WAAB WABC WADC WALA WBBM WBIG WBNS WBRB WBT WCAO WCOA WDAE WDBJ WDOB WDNC WDRS WDSU WFBL WFBM WFEA WGST WHAS WHEC WHP WICC WJAZ WJWS WKBW WKRC WLAB WLBZ WMBG WMBR WNOX WOKO WORC WOWO WPG WQAM WREC WSBT WSPD WTOC

R — Town Hall; Fred Allen

KFYR KPRC KSD ESTP KTBS KTHS KVoo KYW WAPI WAVE WBAW WBNB WCAE WCSH WDAF WDAY WFAF WIBC WEBC WFEA WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WLW WMAQ WMC WOAI WOV WPTF WRC WRVA WSB WSM WSMB WSOC WTAG WTAM WTTIC WTMJ WWJ WNNC

B — John Charles Thomas

KDKA KDYL KFI KGW KHQ KOA KOIL KOMO KPO KSO KWK WBAL WBZ WBZA WCKY WENR WFIL WGAR WHAM WIRE WJZ WLS WMAL WMT WREN WSyr

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

B — Warden Laves; Drama

KDKA KDYL KFI KGW KHQ KOA KOIL KOMO KPO KSO KWK WBAL WBZ WBZA WCKY WFIL WGAR WHAM WIRE WJZ WLS WMAL WMT WREN WSyr

C — Six Gun Justice

CFRB CKAC KFH KGKO KLRA KMBC KMOX KOMA KRLD KSCJ KTRH KTSa KVOR KWKH WABC WACO WADC WALA WBIG WBNS WBRB WBT WCAO WCOA WDAE WDBJ WDOB WDNC WDOB WDRS WEAN WFBL WFBM WFEA WGST WHEC WIBX WJAX WJWS WKRC WLAB WMAS WMBD WMBR WNAC WNOX WOC WOKO WORC WQAM WREC WSBT WSJS WSPD WTOC

Wednesday (Continued)

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

R — Log Cabin Musical
KDYL KFI KGW KHQ KOA KOMO
KPO KPRC KSD KTBS KTHS KYW
WBEN WCAE WCSH WDAF WFAE
WEEI WFAA WGY WHIO WJAR
WKY WMAQ WOAI WOW WRC
WSAI WTAG WTAM WTIC WWJ

C — Lud Gluskin and Orchestra
CFRB CRAC KFH KGKO KLRA
KLZ KMBC KMOX KOMA KRLD
KSCJ KTRH KTSa KFOR KWKH
WABC WACO WADC WALA WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WDAE WDBJ WDBO WDNB
WDOO WDRD WEAN WFBL WFBM
WFEA WGST WHAS WHCC WHK
WIBW WIBX WYB WISN WJAS
WJR WJSV WKBW WKRC WLAC
WMAS WMBD WMBR WNAC
WNAX WNOX WOC WOKO WORC
WPG WQAM WREC WSBT WSJS
WSMK WSPD WTOC

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

R — Ray Noble and Orchestra
KDYL KFI KGW KHQ KOA KOMO
KPO KPRC KSD KTBS KTHS KYVO
KYW WAVE WBEN WCAE WCSH
WDAF WFAE WEEI WFAA WFBR
WGY WHO WHIO WIRE WJAR
WJDX WKY WLW WMAQ WMC
WOAI WOW WRC WBS WSM
WSMB WTAG WTAM WTIC WWJ

C — March of Time. See Monday

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

C — Myrt and Marge. See Monday
R — Amos 'n' Andy. See Monday

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

C — Dance Orchestra
CFRB CRAC KDB KFAB KFH
KFPY KPRC KGB KGKO KHJ
KLRA KLZ KMBC KOH KOL
KOMA KRLD KRNT KSCJ KTRH
KTSa KTUL KVI KFOR KWKH
WAAB WABC WACO WADC WALA
WBMM WBIG WBNS WBRC WBT
WCAO WCCO WCOA WDAE WDBJ
WDBO WDND WDOO WDRB WFBL
WFBM WFEA WGR WGST WHAS
WHEC WHK WHP WIBW WIBX
WICC WISN WJAS WJSV WKRC
WLAC WLBB WMAS WMBD WMBG
WMBR WNOX WOC WOKO WORC
WOW WPG WQAM WREC WSBT
WSFA WSJS WSMK WSPD WTOC

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

B — House of Glass; Drama
KDYL KFI KFYR KGW KHQ
KOA KOMO KPO KPRC KTBS
WAPI WAVE WDAY WFAA WIBA
WIRE WJDX WKY WMC WOAI
WSB WSM WSMB WTMJ

C — Burns and Allen

KDB KERN KFBK KFPY KPRC
KGB KEJ KLZ KMJ KOIN KOL
KSL KVI KFOR KWG

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

R — Town Hall; Fred Allen

KDYL KFI KGW KHQ KOA KOMO
KPO

THURSDAY

E-6:00 p.m., C-5:00, M-4:00, P-3:00

C — Buck Rogers. See Monday

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

C — Russian Bear Orchestra

KLRA WAAB WABC WALA WBIG

WBRC WCAO WDAE WDBJ WDBO
WDND WDOO WDRB WGST WLAC
WLBB WMAS WMBG WMBR WORC
WQAM WREC WSFA WSJS WTOC

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 — Myrt and Marge. 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 — Buddy Clark, Singer

CFRB CRAC KFAB KFH KGB
KLRA KLZ KMBC KMOX-KRLD
KRNT KSCJ KSL KTSa KTUL
KWG KWKH WAAB WABC WACO
WBMM WBIG WBNS WBRC WBT
WCOA WDAE WDBO WDNB WDOO
WDRD WDSU WFBL WFBM WFEA
WGR WGST WHAS WHEC WHP
WIBX WJSV WKRC WLAC WLBB
WMBD WMBG WMBR WOKO
WORO WQAM WREC WSJS
WSMK WSPD WWVA

R — Popeye. See Tuesday

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

C — Kate Smith. See Tuesday

B — Lum and Abner. See Monday

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 — Harv and Esther

CHLW KFAB KMBC KMOX KRNT
WABC WADC WBBM WBNS WCAO
WCAU WCCO WDRB WEAN WFBL
WFBM WGR WHAS WHK WJAS
WJSV WKRC WNAC WOKO WSMK
WSPD

R — Rudy Vallee's Variety Hour

CFRC CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KSD
KSTP KTAI KYW WBEN WCAE
WCSH WDAF WDAY WFAE WFCB
WEEI WFBR WGY WHO WJAR
WLW WMAQ WOW WRC WTAG
WTAM WTIC WTMJ WWJ

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

C — Atwater Kent Concert

CRAC CKLW KDB KERN KFBK
KFPY KPRC KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KOMA
KRLD KRNT KSL KTSa KVI KWG
WABC WADC WBBM WBT WCAO
WCAU WCCO WDAE WDBO WDRD
WDSU WEAN WFBL WFBM WGR
WGST WHAS WHK WJAS WJSV
WKRC WLAC WLBB WMBR WNAC
WOKO WQAM WREC WSPD

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

C — Walter O'Keefe. See Tuesday

R — Maxwell House Show Boat

KDYL KFI KPSD KFYR KGHL
KGIR KGW KHQ KOA KOMO
KPO KPRC KSD KSTP KTAI
KTBS KYW WAPI WAVE WBPB
WBEN WCAE WCSH WDAF WDAY
WFAE WFCB WEEI WFBR WFLA
WGY WHO WHIO WIBA WIOD
WIRE WIS WJAR WJAX WJDX
WKY WMAQ WMC WOAI WOW
WPTF WRC WRVA WSAI WSB
WSM WSMB WSOC WTAG WTAM
WTAR WTIC WTMJ WWJ WNNC

B — Death Valley Days

KDKA KOIL KSO KWK WBAL

WBZ WBZA WFIL WGAR WHAM

WJZ WLS WLW WMAL WMT

WREN WSYR

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

C — To Arms for Peace

KDB KERN KFAB KFBK KFH
KFPY KPRC KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KOMA
KRLD KRNT KSL KTRH KTSa
KVI KWG KWKH WABC WADC
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDOO WDRB WDSU
WEAN WFBL WFBM WGST WHAS
WHEC WHK WHP WISN WJAS
WJR WJSV WKBW WKRC WLAC
WMBG WMBR WNAC WOKO
WREC-WSPD

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

C — Horace Heidt's Orchestra

CKLW KDB KERN FGA KFBK
KFH KFPY KPRC KGB KHJ KLRA
KLZ KMBC KMJ KMOX KOIN
KOL KRLD KRNT KSL KTRH
KTSa KTUL KVI KWG WABC
WBMM WBNS WBRC WBT WCAO
WCAU WCCO WDBO WDRD
WDSU WFBL WFBM WGST WHAS
WHK WISN WJAS WJSV WKBW
WKRC WLAC WMBG WNAC
WNAX WOC WOKO WQAM WREC

R — Paul Whiteman's Music Hall

CFRC CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAI KTBS KTHS
KYW WAPI WAVE WBPB WBEN
WCAE WCSH WDAF WDAY WFAE
WFCB WEEI WFBR WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSB WSM WSMB WTAG
WTAM WTC WTMJ WWJ WNNC

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

C — March of Time. See Monday

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

C — Dance Orchestra

CFRB CRAC CKLW KDB KERN
KFAB KFBK KFH KFPY KPRC
KGB KGKO KHJ KLRA KMBC
KMLJ KMOX KOH KOIN KOL KOMA
KRLD KSCJ KSL KTRH KTSa
KTUL KVI KFOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDOO WDRB WDSU WFBL
WFBM WFEA WGST WHAS WHEC
WHK WHP WIBW WIBX WICC
WISN WJAS WJSV WKBN WKBW
WKRC WLAC WLBB WMAS WMBD
WMBR WNAX WNOX WOC WOKO
WORC WOW WPG WQAM WREC
WSTC WSFA WSJS WSMK WSPD
WTOC

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

C — Dance Orchestra

CFRB CRAC CKLW KDB KFBK
KFH KFPY KPRC KGB KGKO KHJ
KLRA KLZ KMBC KOH KOIN
KOMA KRLD KSL KTRH KTSa
KTUL KFOR KWG KWKH WAAB
WABC WACO WADC WALA WBIG
WBNS WBRC WBT WCAO WCOA
WDAE WDBJ WDBO WDNB WDOO
WDRD WDSU WFBL WFBM WFEA
WGST WHAS WHEC WHK WHP
WIBW WIBX WICC WJAS WJSV
WKBN WKBW WKRC WLAC WLBB
WMAS WMBG WMBR WNAC
WNOX WOKO WORC WOW WPG

THURSDAY (Continued)

WQAM WREC WSBT WSFA WSJS
WSMK WSPD WTOC

R — Amos 'n' Andy, See Monday

C — Myrt and Marge, See Monday

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

C — Walter O'Keefe, See Tuesday

FRIDAY

E-6:00 p.m., C-5:00, M-4:00, P-3:00

C — H. V. Kaitenborn

CKLW KDB KERN KFAB KFH
KFPY KFRC KGB KGKO KHJ
KLRA KLZ KMBC KOH KOL KOMA
KRLD KRNT KSCJ KSL KTRH
KTSK KTUL KVI KVOR KWG
KWKH WAAB WABC WACO WADC
WALA WBBM WBIG WBNS WBRC
WCAO WCOA WDAE WDBJ WDBO
WDNC WDOD WDSU WEAN WFBL
WFBN WFBM WFEA WGST WHAS
WHEC WHP WHW WIBW WIBC
WISN WJAS WJSV WKBW WKRC
WLAC WLWB WMAS WMBD WMBG
WMBR WNOX WOC WOKO WORC
WOWO WPG WQAM WREC WSBT
WSFA WSJS WSMK WSPD WTOC

E-6:15 p.m., C-5:15, M-4:15, P-3:15

C — Bobby Benson, See Monday

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

B — Lowell Thomas, See Monday

C — Loretta Lee, Songs

CFRB KGKO KLRA KLZ KMBC
KMOX KOMA KSCJ KTRH KTSK
KVOR KWKH WAAB WABC WACO
WADC WALA WBNC WDAE WDBJ
WDBO WDNC WDOD WFLB WFBM
WFEA WGST WHAS WHEC WICC
WJSV WKBW WKRC WLAC WLWB
WMAS WMBG WMBR WOKO
WORC WQAM WREC WSJS WSMK
WSPD

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

C — Myrt and Marge, 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

C — Lazy Dan, Minstrel Man

KFAB WABC WADC WBBM WCAO
WCAU WCCO WDRC WEAN WFBL
WFBM WHAS WHEC WHK WIBW
WICC WJAS WJR WJSV WKBW
WKRC WLWB WMAS WMBD WNBC
WOC WOKO WORC WSPD

B — Stamp Club, See Monday

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

B — Lum and Abner, See Monday

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

C — Boake Carter, See Monday

B — Dangerous Paradise, See Monday

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

C — Flying Red Horse Tavern

KFAB KFH KMBC KMOX KRNT
WABC WADC WBBM WBNS WCAO
WCAU WCCO WDRC WEAN WFBL
WFBM WHAS WHEC WHK WIBW
WICC WJAS WJR WJSV WKBW
WKRC WLWB WMAS WMBD WNBC
WOC WOKO WORC WSPD

R — Cities Service Concert

CRCT KDYL KOA KFRC KSD
KSTP KTBS KTHS KVOO KYW
WBAP WBNB WCAE WCSH WDAF
WEAF WECB WEEI WFAX WFBP
WGY WHO WHIO WIOD WJAR
WKY WMAQ WOAI WOW WRC
WRVA WSAI WTAG WTAM WTTT
WTMJ WWJ

B — Irene Rich; Dramatic Sketch
KDKA KDYL KFI KGW KHQ
KOIL KOMO KPO KSO KTKR
WAVE WBAL WBZ WBZA WGAR
WHAM WIRE WJZ WLS WMLA
WMC WMT WREN WSB WSM
WSYR

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

C — Broadway Varieties

CKLW KALE KDB KERN KFAB
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRNT
KSL KWG WABC WADC WBNS
WBRC WBT WCAO WCAU WCCO
WDRC WDSU WEAN WFBL WFBM
WGR WGST WHAS WHK WJAS
WJSV WKRC WMAS WMBG WNBC
WOKO WSPD

B — Ruth Etting; Red Nichols

KDKA KDYL KFI KFSD KGW
KHQ KOIL KOMO KPO KSO KTKR
KWK WBAL WBZ WBZA WFLL
WGAR WHAM WJZ WLS WLW
WMLA WMT WREN WSYR

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

C — Hollywood Hotel

CFRB CKAK CKLW KDB KERN
KFAB KFBK KFH KFPY KFRC
KGB KHJ KLRA KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRLD
KRNT KSCJ KSL KTRH KTSK
KTUL KVI KVOR KWG KWKH
WABC WADC WBBM WBNS WBRC
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDRC WDSU WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBW WIBC
WISN WJAS WJSV WKBW WKRC
WLAC WLWB WMAS WMBD WMBG
WMBR WNBC WNX WNOX
WOKO WORC WPG WQAM WREC
WSPD

R — Frank Munn; Vivienne Segal

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

B — Palmolive Beauty Box Theatre

CFRC CRCT KDKA KFYP KOIL
KPRC KSO KSTP KTBS KWK
WAPI WAVE WBAL WBZ WBZA
WCKY WFLA WNBC WENR WFAX
WFIL WFLA WGAR WHAM WIBA
WIOD WIRE WIS WJAZ WJDX
WJZ WKY WLS WMLA WMC WMT
WOAI WPTF WREN WRVA WSB
WSM WSMB WSOC WSYR WTAR
WTMJ WWNC

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

R — True Story Court

KSD KYW WBNB WCAE WCSH
WEAF WEEI WFBP WGY WHO
WHIO WJAR WMAQ WOW WRC
WTAG WTAM WTTT WWJ

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

C — Richard Himber and Orchestra

CKLW KFAB KFH KMBC KMOX
WABC WADC WADC WBBM WBNS
WBT WCAO WCAU WCCO WDRC
WFBL WFBM WGST WHAS WHK
WJAS WJSV WKBW WKRC WOKO
WSBT WSPD

R — Compana's First Nighter

KDYL KFI KGW KHQ KOA KOMO
KPO KFRC KSD KSTP KYW WBNB
WCAE WCSH WDAF WEAF WECB
WEEI WFAX WFBP WGY WHO
WJAR WKY WLW WMAQ WMC
WOAI WOW WRC WSB WSM WSMB
WTAG WTAM WTTT WTMJ WWJ

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

C — March of Time, See Monday

R — Mills Brothers; Art Kassel

KDYL KFI KFYP EGW KHQ KOA
KOMO KPO KFRC KSD KSTP
KTBS KTHS KVOO WAVE WCAE
WDAF WDAY WEAF WECB WEEI
WFAX WFLA WHEO WIBA WJAZ
WIS WJAR WJAX WJDX WKY
WMAQ WMC WOAI WOW WPTF
WRVA WSAI WSB WSMB WSOC
WTAG WTAM WTAR WTTT WTMJ
WWJ WWNC

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

C — Myrt and Marge, See Monday

R — Amos 'n' Andy, See Monday

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

C — Dance Orchestra

CKLW KFAB KFBK KGKO KLZ
KRLD KRNT KSCJ KTRH WABC
WACO WBBM WDBJ WDBO WDOD
WFBM WGST WHP WISN WJAS
WLAC WMBD WNBC WNOX WOC
WORC WOW WSMK

B — Palmolive Beauty Box Theatre

KDYL KFI KFSD KGHL KGIR
KGW KHQ KOA KOMO KPO KTKR
WLW

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

C — Richard Himber's Orchestra

KDB KERN KFBK KFPY KFRC
KGB KHJ KLZ KMJ KOIN KOL
KVI KWG

SATURDAY

E-6:00 p.m., C-5:00, M-4:00, P-3:00

C — Frederic William Wile

CKLW KDB KERN KFAB KFBK
KFH KFPY KFRC KGB KGKO KHJ
KLRA KLZ KMBC KOH KOIN KOL
KOMA KRLD KSCJ KSL KTSK
KTUL KVI KVOR KWG KWKH
WAAB WABC WACO WADC WBBM
WBIG WBRC WBT WCAO WCAU
WDAE WDBJ WDBO WDNC WDOD
WDRC WESG WFBL WFBM WGST
WHAS WHEC WHK WHP WIBW
WIBX WISN WJSV WKBW WLAC
WLWB WMBD WMBG WMBR
WNOX WOC WOKO WORC WOW
WQAM WREC WSBT WSFA WSJS
WSMK WSPD WTOC WTTT WTTT

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

C — Sandra Brown, Songs

CFRB KLRA WAAB WABC WADC
WALA WNBC WCAO WDAE WDBJ
WDBO WDNC WDOD WDRC WFLB
WFEA WGST WHK WICC WJSV
WKBW WLAC WLWB WMAS WMBR
WOKO WORC WQAM WREC WSBT
WSJS WSPD

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

R — Old Gold Sport Page

KDYL KFYP KOA KFRC KSD
KSTP KTBS KYW WAPT WAVE
WBAP WBNB WCAE WCSH WDAF
WDAY WEAF WECB WEEI WFBP
WGY WHIO WIBC WIOD WIRE
WIS WJAR WJAX WJDX WKY
WLW WMAQ WMC WOAI WOW
WPTF WRC WRVA WSB WSM
WSMB WSOC WSUN WTAG WTAM
WTAR WTTT WWJ WWNC

C — Atlantic Family; Frank Parker

WABC WADC WBIG WBNS WBT
WCAO WCAU WDAE WDBJ WDBO
WDRC WEAN WFBL WHEC WHK
WHP WICC WJAS WKBW WKBW
WMAS WMBG WMBR WNBC

SATURDAY (Continued)

WOKO WORC WPG WQAM WSJS WTOG

E-7:15 p.m., C-6:15, M-5:15, P-4:15
R — Popeye, See Tuesday

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 WEAN WFBL WGR WHAS WHK WJAS WJR WKRC WNAC

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

R — Lennie Hayton and Orchestra

KDYL KFI KFSB KFYR KGHL KGIR KGU KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTAR KTBS KTHS KVOO KYW WAPI WAVE WBAP WBBM WCAE WCSH WDAF WDAY WFAE WFCB WEEI WFAA WFBP WFLA WGY WHO WHIO WIBA WIOD WIRE WIS WJAR WJAX WJDX WKY WLW WMAQ WMC WOA WOI WOW WPTF WRC WRVA WSB WSM WSMB WSOC WTAG WTAM WTAR WTIC WTMJ WWJ WNNC

C — Club Columbia; Musical Comedy

CFRB CKAC CFH KGKO KLRA KLZ KMBC KMOX KOMA KSCJ KSL KTRH KVR KWKH WABC WACO WADC WALA WBIG WBNS WBRC WCAO WCAU WCCO WDAE WDBJ WDBO WDNC WDDO WDRC WEAN WFBL WFBM WFEA WGR WGST WHAS WHEC WHK WIBW WIBX WICC WISN WJAS WJR WJSV WLAC WLWB WMAS WMBD WMBG WMBR WNAC WNOX WOC WOKO WORC WQAM WREC WSJT WSJS WSPD WTOG

E-8:45 p.m., C-7:45, M-6:45, P-5:45

C — Troopers; Martial Music

CFRB CKAC KGKO KLRA KLZ KMBC KOMA KRLD KSCJ KSL KTRH KTSa KVR KWKH WABC WACO WADC WALA WBBM WBIG WBNS WBRC WCAO WCAU WCCO WDAE WDBJ WDBO WDNC WDDO WDRC WEAN WFBL WFBM WFEA WGR WGST WHAS WHEC WHK WIBW WIBX WICC WISN WJAS WJR WJSV WKRC WLAC WLWB WMAS WMBD WMBG WMBR WNAC WNOX WOC WORC WPG WREC WSJT WSJS WSPD WTOG

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

R — G-Men; Drama

KDYL KFI KFSB KFYR KGHL KGIR KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTAR KTBS KYW WAPI WAVE WBAP WBBM WCAE WCSH WDAF WDAY WFAE WFCB WEEI WFBP WFLA WGY WHO WHIO WIBA WIOD WIRE WIS WJAR WJAX WJDX WKY WLW WMAQ WMC WOA WOI WOW WPTF WRC WRVA WSB WSM WSMB WSOC WTAG WTAM WTAR WTIC WTMJ WWJ WNNC

C — Chesterfield. See Wednesday

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

R — Wallace Beery; Victor Young

KDYL KFI KFSB KFYR KGHL KGIR KGW KHQ KOA KOMO KPO KSD KSTP KTAR KYW WBBM WCAE WCSH WDAF WDAY WFAE WFCB WEEI WFLA WGY WHO WHIO WIBA WIOD WIS WJAR

WJAX WLW WMAQ WOW WPTF WRC WRVA WSOC WTAG WTAM WTAR WTIC WTMJ WWJ WNNC

B — National Barn Dance

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

C — Marty May; Comedian

CFRB CKAC CFH KGKO KLRA KLZ KMBC KMOX KOMA KRLD KSCJ KSL KTRH KTSa KVR KWKH WABC WACO WADC WALA WBBM WBIG WBNS WBRC WBT WCAO WCAU WDAE WDBJ WDBO WDNC WDDO WDRC WEAN WFBL WFBM WFEA WGST WHAS WHEC WHK WIBW WICC WISN WJAS WJR WJSV WKBW WKRC WLAC WLWB WMAS WMBD WMBG WMBR WNAC WNOX WOC WOKO WORC WPG WQAM WREC WSJT WSJS WSPD WTOG

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

C — California Melodies

CFRB CKAC CFH KGKO KLRA KLZ KMBC KMOX KOMA KRLD KSCJ KSL KTRH KTSa KVR 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 WHEC WHK WIBW WICC WISN WJAS WJR WJSV WKBW WKRC WLAC WLWB WMAS WMBD WMBG WMBR WNAC WNOX WOC WOKO WORC WPG WQAM WREC WSJT WSJS WSMK WSPD WTOG

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

C — Dance Orchestra

CFRB CKAC CKLW KDB KFBC KFH KFI KFYR KFRC KGB KGKO KHL KLZ KMOX KOH KOIN KOL KRLD KSCJ KSL KTSa KTUL KVI KVR KVG KWKH WAAB WABC WACO WADC WBBM WBIG WBNS WBRC WCAU WCCO WDBJ WDBO WDNC WFBL WFBM WGST WHAS WHEC WHK WHP WIBW WIBX WISN WJAS WJSV WKRC WLAC WLWB WMAS WMBD WMBR WNOX WOC WORC WPG WREC WSFA WSJS WSMK WSPD WTOG WVVVA

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

C — Dance Orchestra

CKLW KDB KERN KFBC KFH KFYR KFRC KGB KGKO KLRA KLZ KMBC KMOX KOH KOIN KOL KOMA KRLD KTSa KTUL KVI KVR KVG KWKH WABC WACO WADC WBBM WBIG WBNS WBRC WCAU WCCO WDBJ WDBO WDNC WFBL WFBM WGST WHAS WHEC WHK WHP WIBW WIBX WISN WJAS WJSV WKRC WLAC WLWB WMAS WMBD WMBR WNOX WOC WORC WPG WQAM WREC WSJT WSJS WSMK WSPD WTOG WVVVA

B — National Barn Dance

KDYL KFI KFYR KGW KHQ KOA KOMO KPO KPRC KSTP KTBS KTHS KVOO WAVE WBAP WDAY WECB WIBA WJDX WKY WLW WMC WOA WSB WSMB

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

C — Dance Orchestra

CFRB CKAC CKLW KDB KERN

KFAB KFBC KFH KFPY KFRC KGKO KHJ KLRA KOH KOL KOMA KRLD KSCJ KSL KTSa KTUL KVR KWKH WABC WACO WADC WBBM WBIG WBNS WBRC WBT WCAO WCAU WCCO WCOA WDAE WDBJ WDBO WDNC WDDO WDRC WEAN WFBL WFBM WFEA WGST WHAS WHEC WHK WHP WIBW WIBX WICC WISN WJAS WJSV WKBW WKRC WLAC WLWB WMAS WMBD WNAC WNAK WNOX WOKO WORC WPG WQAM WREC WSBT WSFA WSJS WSMK WSPD WTOG WVVVA

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

C — Dance Orchestra

CKAC CKLW KDB KERN KFBC KFH KFPY KGB KGKO KLRA KLZ KHJ KOIN KOL KOMA KRLD KSL KTSa KTUL KVI KVR KVG KWKH WABC WACO WADC WDAE WDBJ WDBO WDNC WDDO WEAN WFBL WFBM WHAS WHK WHP WIBX WICC WKBW WKRC WLAC WMBR WNAC WNOX WOC WOKO WQAM WREC WSBT WSFA WSJS WSMK WSPD WTOG

SUNDAY

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

C — Salt Lake Tabernacle Choir

CKLW KFAB KFBC KFH KGKO KLRA KLZ KOMA KRLD KRNT KSCJ KSL KTRH KTSa KTUL KWKH WACO WADC WALA WBIG WBNS WBRC WBT WCAO WCCO WCOA WDAE WDBJ WDBO WDNC WDDO WDRC WDSU WESB WFBL WFEA WGST WHP WIBW WIBX WISN WJAS WJSV WKBW WLAC WLWB WMAS WMBD WMBR WNAC WNAK WOC WOKO WORC WOWO WPG WQAM WREC WSFA WSJS WSMK WSPD WTOG

R — Major Bowes' Capitol Family

KDYL KFYR KOA KPRC KSTP KTBS KVOO WAPI WCAE WDAF WDAY WFAE WFCB WFAA WFBP WFLA WGY WHO WHIO WJAR WJAX WKY WMAQ WMC WOA WOI WRC WRVA WSAI WSMB WTAG WTAM WNNC

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

B — Tastyest Matinee

KDKA WBAL WBZ WBZA WCKY WJZ WMAL WSYR

E-12:30 p.m., C-11:30, M-10:30, P-9:30

B — Radio City Music Hall

CFBC CRCT KDKA KDYL KFI KFYR KGO KGW KHQ KOA KOIL KOMO KPRC KSO KVOO WAPI WBAL WBZ WBZA WCKY WDAY WECB WGAR WHAM WIS WJDX WJZ WKY WMAL WOA WREN WSMB WSYR WNNC

E-12:45 p.m., C-11:45, M-10:45, P-9:45

C — Trans-Atlantic Broadcast

CFRB CKAC CFH KGKO KLRA KLZ KMBC KRLD KSCJ KTRH KTSa KVR WABC WACO WADC WALA WBIG WBNS WBRC WCAO WCAU WCCO WDAE WDBJ WDRS WEAN WESG WFBL WFBM WFEA WGR WHAS WIBX WJAS WJSV WKBW WLAC WLWB WMAS WMBR WNAC WOC WOKO WORC WPG WQAM WREC WSJS WSMK WSPD WTOG

SUNDAY (Continued)

E-1:00 p.m., C-12:00, M-11:00, P-10:30

C — Church of the Air

CFRB KFH KGKO KLRK KOMA
KRLD KSCJ KSL KTRH KTSB
KFOR KWKH WABC WACO WALA
WBNS WBT WCAO WCCO WDAE
WDBJ WDBO WDOD WESG WFBM
WGR WHAS WHEC WIBW WIBX
WJAS WJSV WKBN WKRC WLAC
WLBZ WMBD WMBR WOC WOKO
WORC WPG WQAM WREC WSBT
WSJS WSPD

E-1:30 p.m., C-12:30, M-11:30, P-10:30

C — Musical Footnotes

KMOX KRNT WABC WBNS WCAO
WHAS WJAS WKBW WKRC WREC

E-1:45 p.m., C-12:45, M-11:45, P-10:45

C — Sisters of the Skillet

CKLW KDB KERN KFAB KFBK
KFPY KFRC KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KOMA
KRLD KSL KTRH KTSB KVI KWG
WABC WADC WBBM WBNS WBRB
WBT WCAO WCAU WCCO WGBT
WDRS WDSU WEAN WFBM WGST
WHAS WHEC WHK WIBX WICC
WJAS WJSV WKBW WKRC WNAC
WNOX WOKO WORC WREC WTOC

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

C — Mary Eastman, Soprano

CFRB CKAC KFH KGKO KLRK
KLZ KMBC KRLD KSCJ KTRH
KTSB KFOR KWKH WABC WADC
WALA WBIG WBNS WBRB WBT
WCAO WCAU WCCO WDAE WDBJ
WDBO WDNC WDOD WDRS WEAN
WESG WFBL WFBM WFEA WGST
WHAS WHEC WHK WIBW WIBX
WICC WISN WJAS WJR WKBN
WKBW WKRC WLAC WLBZ WMAS
WMBD WMBG WMBR WNAC
WNOX WOC WOKO WORC WPG
WQAM WREC WSJS WSMK WSPD
WTOC

B — Magic Key of RCA

CFCF KDKA KDYL KFI KFJR
KGU KGW KHQ KOA KOIL KOMO
KPO KPRC KSO KSTP KTBS KTHS
KVOO KWK WAPI WAVE WBAL
WBZ WBZA WCKY WDAY WEBC
WENR WFAA WFIL WFLA WGAR
WHAM WIBA WIOD WIS WJAX
WJDX WJZ WKY WMAL WMC
WMT WOAI WPTF WREN WRYA
WSB WSM WSMB WSOC WSYR
WTAR WTMJ WNNC WXYZ

E-2:45 p.m., C-1:45, M-12:45, P-11:45

C — Blue Flames; Mixed Quartet

CFRB KFH KGKO KLRK KLZ
KMBC KOMA KRLD KSCJ KSL
KTRH KTSB KFOR KWKH WAAB
WABC WACO WADC WALA WBBM
WBIG WBNS WBRB WBT WCAO
WCAU WCCO WDAE WDBJ WDBO
WDNC WDOD WEAN WESG WFBL
WFBM WGST WHAS WHEC WHK
WIBW WIBX WICC WISN WJAS
WJR WKBN WKBW WKRC WLAC
WLBZ WMBD WMBG WMBR
WNAC WNOX WOC WOKO WORC
WQAM WREC WSBT WSJS WSMK
WSPD WTOC

E-3:00 p.m., C-2:00, M-1:00, P-12:00

C — New York Symphony

CFRB CKAC KFH KGKO KLRK
KLZ KOMA KRLD KSCJ KSL
KTRH KTSB KFOR KWKH WABC
WACO WADC WALA WBBM WBIG

WBNS WBRB WBT WCAO WCAU
WCCO WDAE WDBJ WDBO WDNC
WDOD WDRS WEAN WESG WFBL
WFBM WFEA WGST WHAS WHEC
WHK WIBW WIBX WICC WISN
WJAS WJR WKBN WKBW WKRC
WLAC WLFB WMAS WMBD WMBG
WMBR WNAC WNOX WOC WOKO
WORC WQAM WREC WSBT WSJS
WSMK WSPD WTOC

B — Your English

KDKA KDYL KFI KGW KHQ
KOA KOIL KOMO KPO KPRC
KSO KSTP KTHS KVOO KWK
WAPI WAVE WBAL WBZ WBZA
WDAY WEBC WENR WFAA WFIL
WFLA WGAR WHAM WIOD WJAX
WJZ WKY WLW WMAL WMC
WMT WOAI WPTF WREN WSB
WSM WSMB WSYR WXYZ

E-4:00 p.m., C-3:00, M-2:00, P-1:00

Rev. Charles E. Coughlin

KSTP KWK WCAO WCAU WDRS
WEAN WFBL WFEA WGAR WGR
WHB WHJ WICC WIND WJAS
WJDX WJR WLBZ WLW WMAS
WNAC WNBH WOC WOKO WOL
WOR WORC

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

C — Abe Lyman's Orchestra

CFRB CKLW KFAB KMBC KMOX
KRNT WAAB WABC WADC WBBM
WCAO WCAU WCCO WDRS WEAN
WFBL WFBM WGR WHAS WHEC
WHK WJAS WJSV WKRC WOKO
WSPD

B — Roses and Drums

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

R — Penthouse Serenade

CFCF KDYL KFI KFJR KGW
KHQ KOA KOMO KPO KPRC
KSTP KTBS KTHS KVOO KYW
WAPI WAVE WBAP WBNB WCAE
WCBS WDAF WDAY WEAF WEBC
WEEL WFBR WFLA WGY WHIO
WIBA WIOD WIS WJAR WJAX
WJDX WKY WMAQ WMC WOAI
WOW WPTF WRC WRVA WSAI
WSB WSM WSMB WSOC WTAG
WTAM WTAR WTIC WWJ WNNC

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

C — Frank Crummit-Julia Sanderson

CKLW KFH KMBC KMOX KOMA
KTUL WAAB WABC WADC WBNS
WCAO WCAU WDRS WDSU WEAN
WFBL WFBM WGR WHAS WHEC
WHK WIBX WICC WJSV WMAS
WOKO WORC WSPD WVVVA

R — Dream Drama

KYW WBEN WCAE WCBS WDAF
WEAF WEEI WFBR WGY WJAR
WMAQ WRC WSAI WTAG WTAM
WTIC WWJ

B — Bob Becker's Dog Chats

KDKA KOIL KSO KWK WBAL
WBZ WBZA WCKY WENR WFIL
WGAR WHAM WJZ WMAL WMT
WREN WSYR

E-5:45 p.m., C-4:45, M-3:45, P-2:45

C — Gabriel Heatter, Talker

KDKA KOIL KSO WBAL WBZ
WBZA WENR WFIL WGAR WHAM
WJZ WMAL WREN WSYR

R — Al Goodman and Orchestra

KSD KYW WBEN WCAE WCBS
WDAF WEAF WEEI WFBR WGY

WHO WHIO WIRE WJAR WMAQ
WOW WRC WSAI WTAG WTAM
WTIC WWJ

E-6:00 p.m., C-5:00, M-4:00, P-3:00

C — National Amateur Night

CFRB CKLW KERN KFAB KFBK
KFPY KFRC KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KRLD
KSL KVI KWG WAAB WABC
WBBM WBNS WBT WCAO WCAU
WCCO WDRS WDSU WFBL WFBM
WGST WHAS WHEC WHK WJAS
WJSV WKBW WKRC WOKO WOWO
WREC

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

C — Smiling Ed McConnell

KDB KERN KFAB KFBK KFH
KFPY KFRC KGB KHJ KLZ KMJ
KMOX KOIN KOL KRLD KRNT
KSL KVI KWG WAAB WABC
WBBM WBNS WBRB WBT WCAO
WCAU WCCO WDRS WDSU WEAN
WFBL WFBM WHAS WHEC WJAS
WJR WJSV WKBW WKRC WLAC
WVVVA

B — Compana's Grand Hotel

KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO KSO KSTP KWK
WBAL WBZ WBZA WCKY WEBC
WENR WHAM WJZ WMAL WMT
WREN WSYR

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

C — Voice of Experience

KMOX WAAB WABC WADC WBBM
WBT WCAO WCAU WCCO WDRS
WEAN WFBL WFBM WHAS WHEC
WHK WJAS WJR WKBW WKRC
WSPD

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

C — Alexander Woolcott

KDB KERN KFBK KFPY KFRC
KGB KHJ KLZ KMBC KMOX KOIN
KOL KSL KVI KWG WABC WBBM
WCAO WCAU WCCO WDRS WFBL
WGR WHAS WHK WJAS WJSV
WKRC WNOX WOKO

B — Jack Benny; Johnny Green

KDKA KFJR KOIL KPRC KSO
KSTP KTBS KTHS KVOO KWK
WAPI WAVE WBAL WBAP WBZ
WBZA WCKY WDAY WEBC WENR
WFIL WFLA WGAR WHAM WIBA
WIOD WIRE WJAX WJZ WKY
WMAL WMC WMT WOAI WPTF
WREN WRYA WSB WSM WSMB
WSOC WSYR WTAR WTMJ

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

R — Fireside Recitals

KSD KYW WBEN WCAE WCBS
WDAF WEAF WFBR WGY WHIO
WIRE WJAR WMAQ WOW WRC
WSAI WTAG WTAM WTIC WWJ

C — Phil Baker; Hal Kemp

CKLW KLRK KRLD KTRH KTSB
KWKH WABC WACO WADC WALA
WBIG WBNS WBRB WBT WCAO
WCAU WCOA WDAE WDBJ WDBO
WDNC WDOD WDRS WDSU WEAN
WESG WFBL WFBM WFEA WGR
WGST WHAS WHEC WHK WHP
WICC WJAS WJSV WKBW WKRC
WLAC WLBZ WMAS WMBR WNAC
WNOX WOKO WORC WOWO WQAM
WREC WSBT WSPA WSJS WSMK
WSPD WTOC WVVVA

B — Ozzie Nelson; Robt. L. Ripley

KDKA KDYL KFI KFJR KGW
KHQ KOA KOIL KOMO KPO KPRC
KSO KSTP KTRK KVAR KVOO KWK

SUNDAY (Continued)

WBAL WBZ WBZA WCKY WDAY
 WEBC WFAP WFLA WGAR WHAM
 WBA WIOD WJAX WJDX WJZ
 WKY WLS WMAL WMC WMT
 WQAI WPTF WREN WRVA WSB
 WSM WSMB WSYR WTMJ WWNC
 WXYZ

E-7:45 p.m., C-6:45, M-5:45, P-4:45
R — Sunset Dreams; Morin Sisters
 CFCE KSD KYW WBN WCAE
 WCSB WEAF WFBW WGY WHO
 WHIO WIRE WJAR WLW WMAQ
 WRC WTAM WTIC WWJ

E-8:00 p.m., C-7:00, M-6:00, P-5:00
R — Major Bowes' Amateur Hour
 CFCE CRCT KDYL KFI KFJR
 KGW KHQ KOA KOMO KPO KPRC
 KSD KSTP KTAR KTBS KYOO
 KYW WAPI WAVE WBN WBZ
 WBZA WCAE WCHS WDAF WDAY
 WEAF WEBC WFAP WFBW WFLA
 WGY WHO WIOD WIS WJAR
 WJAX WJDX WKY WLW WMAQ
 WMC WQAI WQW WPTF WRC
 WRVA WSB WSM WSMB WTAM
 WTAM WTAR WTIC WTMJ WWJ
 WWNC

C — Eddie Cantor
 KFAB KFH KLRA KLZ KMBC
 KMOX KOMA KRLL KRNT KTRH
 KTSB KTUL KWKH WABC WADC
 WBBM WBNB WBRC WBT WCAO
 WCAU WCGO WDOE WDRG WDSU
 WEAN WFBL WFBM WGR WGST
 WHAS WHEC WHK WICC WJAS
 WJR WJSV WKRC WLAC WNAC
 WOWO WWOV WREC WSPD

E-8:30 p.m., C-7:30, M-6:30, P-5:30
C — Leslie Howard; Drama
 KDB KERN KFAB KFBK KFPY
 KFRC KGB KHJ KLRA KLZ KMBC
 KMJ KMOX KOIN KOL KOMA
 KRLL KRNT KSL KTRH KTUL
 KVI KWG WABC WADC WBBM
 WBNB WBRC WBT WCAO WCAU
 WCGO WDRG WDSU WEAN WFBL
 WFBM WGR WHAS WHEC WHK
 WJAS WJR WJSV WKRC WLAC
 WNAC WOWO WWOV WREC WSPD

E-9:00 p.m., C-8:00, M-7:00, P-6:00
C — Ford Concert
 CFRB CKAC CKLW KDB KERN
 KFAB KFBK KFH KFPY KFRC
 KGB KGKO KHJ KLRA KLZ
 KMBC KMJ KMOX KOH KOIN

KOL KOMA KRLL KRNT KSCJ
 KSL KTRH KTSB KTUL KVI
 KWOR KWKW KWKH WABC WACO
 WADC WALA WBBM WBIG WBNB
 WBRC WBT WCAO WCAU WCCO
 WCOA WDAE WDBJ WDBO WDNC
 WDOE WDRG WDSU WEAN WFBL
 WFBM WFEA WGST WHAS WHEC
 WHK WHP WIBW WIBX WICC
 WISN WJAS WJR WJSV WKBH
 WKBN WKBW WKRC WLAC WLZ
 WMAS WMBD WMBR WNAC
 WNAX WNOX WOC WOKO WORC
 WOWO WQAM WREC WSBT WSFA
 WSJS WSMK WSPD WTOG

R — Manhattan Merry-Go-Round
 CFCE KDYL KFI KFJR KGW
 KHQ KOA KOMO KPO KSD KSTP
 KYW WBNB WCAE WCHS WDAF
 WDAY WEAF WEBC WFBW WGY
 WHO WHIO WIBA WJAR WMAQ
 WOW WRC WSAI WTAM WTAM
 WTIC WTMJ WWJ

B — Charles Provin and Orchestra
 KDKA KOIL KSO KWK WBAL
 WBZ WBZA WENR WFIL WGAR
 WHAM WJZ WLW WMAL WMT
 WREN WSYR

E-9:30 p.m., C-8:30, M-7:30, P-6:30
R — Album of Familiar Music
 CFCE CRCT KDYL KFI KFJR
 KGW KHQ KOA KOMO KPO KPRC
 KSD KSTP KTBS KYOO KYW
 WAVE WBNB WCAE WCHS WDAF
 WDAY WEAF WEBC WEEI WFAP
 WFBW WFLA WGY WHO WHIO
 WBA WIOD WIS WJAR WJAX
 WJDX WKY WMAQ WMC WQAI
 WQW WPTF WRC WRVA WSAI
 WSB WSM WSMB WSOX WTAM
 WTAM WTAR WTMJ WWJ WWNC

B — Walter Winchell
 KDKA KOIL KSO KWK WBAL
 WBZ WBZA WENR WFIL WGAR
 WHAM WJZ WLW WMAL WMT
 WREN WSYR

E-9:45 p.m., C-8:45, M-7:45, P-6:45
B — Niala Goodelle, Songs
 KDKA KOIL KSO KWK WBAL
 WBZ WBZA WCKY WENR WFIL
 WGAR WHAM WJZ WLW WMAL
 WMT WREN WSYR WXYZ

E-10:00 p.m., C-9:00, M-8:00, P-7:00
C — Wayne King's Orchestra
 CKLW KDB KERN KFAB KFBK
 KFPY KFRC KGB KHJ KLZ KMBC

KMJ KMOX KOIN KOL KRLL
 KSL KVI KWG WAAB WABC
 WADC WBBM WBNB WCAO WCAU
 WCGO WDRG WDSU WFBL WFBM
 WHAS WHK WIBW WJAS WJSV
 WKBW WKRZ WSPD

R — General Motors Concert
 CFCE CRCT KDYL KFI KFSD
 KFJR KGW KHQ KOA KOMO
 KPO KPRC KSTP KTAR KTBS
 KTBS KYW WAPI WAVE WPAP
 WBNB WCAE WCHS WDAF WDAY
 WEAF WEBC WEEI WFBW WFLA
 WGY WHO WHIO WIBA WIOD
 WIRE WIS WJAR WJAX WJDX
 WKY WMAQ WMC WQAI WQW
 WPTF WRC WRVA WSB WSM
 WSMB WSOX WTAM WTAM WTAR
 WTIC WTMJ WWJ WWNC

E-10:30 p.m., C-9:30, M-8:30, P-7:30
C — Freddie Rich and Orchestra
 KLRA WABC WALA WBIG WBRC
 WBT WCAO WCAU WDAE WDBJ
 WDBO WDNC WDOE WDRG WEAN
 WFEA WGST WICC WJSV WLZ
 WMAS WMBG WMBR WNAC
 WORC WQAM WREC WSJS WTOG

E-11:00 p.m., C-10:00, M-9:00, P-8:00
R — Sunset Dreams; Morin Sisters
 KDYL KFI KFSD KGW KHQ KOA
 KOMO KPO KPRC KTAR KTBS
 KTBS WPAP WDAF WKY WQAI

C — Eddie Cantor
 KDB KERN KFBK KFPY KFRC
 KGB KHJ KMJ KOIN KOL KSL
 KVI KWG

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 KTBS WAPI WAVE
 WBAP WJDX WMC WSB WSM
 WSMB

E-11:30 p.m., C-10:30, M-9:30, P-8:30
B — Jack Benny; Johnny Green
 KDYL KFI KFSD KGHL KGIR
 KGU KGW KHQ KOA KOMO KPO
 KTAR

C — Voice of Experience
 KDB KERN KFBK KFPY KFRC
 KGB KHJ KLZ KMJ KOIN KOL
 KSL KVI KWG

E-12:00 p.m., C-11:00, M-10:00, P-9:00
B — Charles Provin and Orchestra
 KDYL KFI KGW KHQ KOA KOMO
 KPO

CLASSIFIED INDEX TO CHAIN PROGRAMS

Time in Eastern Standard

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

*These features are correct at the time of going to press,
 but changes are being made daily.*

CONCERTS

Atwater Kent Concert, 8:30 p.m. Thursday, C
 Ford Concert, 9:00 p.m. Sunday, C
 General Motors Concert, 10:00 p.m. Sunday, R
 New York Symphony, 3:00 p.m. Sunday, C
 Radio City Music Hall, 12:30 p.m. Sunday, B

DANCE BANDS

Victor Arden, 8:00 p.m. Thurs. 8:30 p.m. Fri., C

Ben Bernie, 9:00 p.m. Tuesday, R
 Eddie Duchin, 9:30 p.m. Tuesday, R
 Lud Gluskin, 10:00 p.m. Wednesday, C
 Al Goodman, 9:00 and 11:30 p.m. Friday, B; 5:45 p.m.
 Sunday, R
 Glen Gray, 9:00 and 11:30 p.m. Tues. and Thurs., C
 Johnny Green, 7:00 and 11:30 p.m. Sunday, B
 Lennie Hayton, 8:00 p.m. Saturday, R
 Horace Heidt, 10:00 p.m. Thursday, C
 Richard Himber, 10:00 and 12:00 p.m. Friday, C

Johnny Johnson, 12:00 noon Sunday, B
 Art Kassel, 10:30 p.m. Friday, R
 Hal Kemp, 7:30 p.m. Sunday, C
 Wayne King, 10:00 p.m. Sun. and Mon., C; 8:30 p.m.
 Tues. and Wed., R
 Guy Lombardo, 8:00 p.m. Monday, C
 Abe Lyman, 5:00 p.m. Sun., C; 9:00 p.m. Friday, R
 Ozzie Nelson, 7:30 p.m. Sunday, B
 Red Nichols, 8:30 p.m. Friday, B
 Ray Noble, 10:30 p.m. Wednesday, R
 Charles Previn, 9:00 and 12:00 p.m. Sunday, B
 Leo Reisman, 8:00 and 11:30 p.m. Tuesday, R
 Freddie Rich, 10:30 p.m. Sunday; 8:00 p.m. Friday, C
 Harry Salter, 10:00 p.m. Wednesday, R
 Rudy Vallee, 8:00 p.m. Thursday, R
 Fred Waring, 9:30 p.m. Tuesday, C
 Paul Whiteman, 10:00 p.m. Thursday, R
 Victor Young, 9:30 p.m. Saturday, R

DIALOG

Fred Allen, 9:00 and 12:00 p.m. Wednesday, R
 Amos 'n' Andy, 7:00 and 11:00 p.m. daily except Sat.
 and Sun., R
 Phil Baker, 7:30 p.m. Sunday, C
 Wallace Beery, 9:30 p.m. Saturday, R
 Jack Benny, 7:00 and 11:30 p.m. Sunday, B
 Burns and Allen, 8:30 and 11:30 p.m. Wednesday, C
 Eddie Cantor, 8:00 and 11:00 p.m. Sunday, C
 Easy Aces, 7:00 p.m. Tues., Wed. and Thurs., B
 Fibber McGee and Molly, 8:00 p.m. Monday, B
 Harv and Esther, 8:00 p.m. Thursday, C
 Lum and Abner, 7:30 p.m. daily, except Sat. and Sun., B
 Marty May, 9:30 p.m. Saturday, C
 Walter O'Keefe, 9:00 and 11:30 p.m. Tues. and Thurs.,
 C
 Pick and Pat, 8:30 and 11:30 p.m. Monday, C
 Popeye, The Sailor, 7:15 p.m. Tues., Thurs. and Sat., R
 Sisters of the Skillet, 1:45 p.m. Sunday, C
 Stoopnagle and Budd, 9:30 p.m. Tuesday, C

DRAMA

Cavalcade of America, 8:00 p.m. Wednesday, C
 Dangerous Paradise, 7:45 p.m. Mon., Wed. and Fri., B
 Death Valley Days, 9:00 p.m. Thursday, B
 Dream Drama, 5:30 p.m. Sunday, R
 Eno Crime Clues, 8:00 p.m. Tuesday, B
 First Nighter, 10:00 p.m. Friday, R
 G-Men, 9:00 p.m. Saturday, R
 Grand Hotel, 6:30 p.m. Sunday, B
 Helen Hayes, 12:00 mid. Monday; 9:30 p.m. Tuesday, B
 House of Glass, 8:30 and 11:30 p.m. Wednesday, B
 Leslie Howard, 8:30 p.m. Sunday, C
 Warden Lawes, 9:30 p.m. Wednesday, B
 Lux Theatre, 9:00 p.m. Monday, C
 Myrt and Marge, 7:00 and 11:00 p.m. daily, except
 Sat. and Sun., C
 One Man's Family, 8:00 p.m. Wednesday, R
 Princess Pat Players, 9:30 p.m. Monday, B
 Irene Rich, 8:00 p.m. Friday, B
 Buck Rogers, 6:00 p.m. Mon., Tues., Wed., Thurs., C
 Roses and Drums, 5:00 p.m. Sunday, B
 Six-Gun Justice, 9:30 p.m. Wednesday, C
 True Story Court, 9:30 p.m. Friday, R
 Welcome Valley, 8:30 p.m. Tuesday, B

POPULAR PROGRAMS

A. and P. Gypsies, 9:00 p.m. Monday, R
 Atlantic Family, 7:00 p.m. Saturday, C
 Album of Familiar Music, 9:30 p.m. Sunday, R
 Major Bowes, 11:30 a.m. and 8:00 p.m. Sunday, R
 Broadway Varieties, 8:30 p.m. Friday, C
 California Melodies, 10:00 p.m. Saturday, C
 Camel Caravan, 9:00 and 11:30 p.m. Tues. and Thurs.,
 C
 Carborundum Band, 7:30 p.m. Saturday, C
 Chesterfield Program, 9:00 p.m. Wed. and Sat., C
 Cities Service Concert, 8:00 p.m. Friday, R
 Contented Program, 10:00 p.m. Monday, R
 Evening in Paris, 8:30 p.m. Monday, B
 Fireside Recitals, 7:30 p.m. Sunday, R

Fleischmann Variety, 8:00 p.m. Thursday, R
 Flying Red Horse Tavern, 8:00 p.m. Friday, C
 Gulf Headliners, 7:30 p.m. Sunday, C
 Hammerstein's Music Hall, 8:00 p.m. Monday, R
 Hollywood Hotel, 9:00 p.m. Friday, C
 Life Savers Rendezvous, 8:00 p.m. Wednesday, B
 Magic Key of RCA, 2:00 p.m. Sunday, B
 Manhattan Merry-Go-Round, 9:00 p.m. Sunday, R
 March of Time, 10:30 p.m. daily, except Sat. and
 Sun., C
 Maxwell House Show Boat, 9:00 p.m. Thursday, R
 Musical Footnotes, 1:30 p.m. Sunday, C
 National Amateur Night, 6:00 p.m. Sunday, C
 National Barn Dance, 9:30 and 11:00 p.m. Saturday, B
 N.T.G. and His Girls, 9:00 p.m. Tuesday, B
 Palmolive Beauty Box, 9:00 and 11:30 p.m. Friday, B
 Penthouse Serenade, 5:00 p.m. Sunday, R
 Sinclair Minstrels, 9:00 p.m. Monday, B
 Swift Studio Party, 10:00 p.m. Tuesday, R
 Town Hall Tonight, 9:00 and 12:00 p.m. Wednesday, R
 Uncle Ezra, 7:15 p.m. Mon., Wed., Fri., R
 Voice of Firestone, 8:30 and 11:30 p.m. Monday, R

SINGERS

Countess Olga Albani, 9:00 and 12:00 p.m. Sunday, B
 Michael Bartlett, 7:00 and 11:30 p.m. Sunday, B
 Bernice Clair, 5:00 p.m. Sunday, C
 Buddy Clark, 7:15 p.m. Thursday, C
 Crumit-Sanderson, 5:30 p.m. Sunday, C
 Vivian Della Chiesa, 1:30 p.m. Sunday, C
 Jessica Dragonetto, 8:00 p.m. Friday, R
 Ruth Erting, 8:30 p.m. Friday, B
 Jack Fulton, 5:00 p.m. Sunday, R
 Niela Goodelle, 9:45 p.m. Sunday, B
 Wendell Hall, 10:00 p.m. Tuesday, B
 Helen Jepson, 10:00 p.m. Thursday, R
 Frances Langford, 9:00 p.m. Friday, C
 Lazy Dan, 7:15 p.m. Friday, C
 Elizabeth Lennox, 8:30 p.m. Friday, C
 Nino Martini, 9:00 p.m. Saturday, C
 Mills Brothers, 10:30 p.m. Friday, R
 Lucy Monroe, 8:00 p.m. Tuesday, C
 Grace Moore, 9:30 p.m. Monday, R
 Morin Sisters, 7:45 and 11:00 p.m. Sunday, R
 Frank Munn, 8:00 p.m. Tuesday, C; 9:30 p.m. Sunday,
 and 9:00 p.m. Friday, R
 Frank Parker, 7:00 p.m. Saturday, C
 Pickens Sisters, 8:30 p.m. Monday, B
 Lily Pons, 9:00 p.m. Wednesday, C
 Dick Powell, 9:00 p.m. Friday, C
 Lanny Ross, 9:00 p.m. Thursday, R
 Vivienne Segal, 9:30 p.m. Sun. and 9:00 p.m. Fri., R
 Oscar Shaw, 8:30 p.m. Friday, C
 Singin' Sam, 7:30 and 11:15 p.m. Monday, C
 Smiling Ed McConnell, 6:30 p.m. Sunday, C
 Kate Smith, 7:30 p.m. Tues., Wed. and Thurs., C
 Conrad Thibault, 10:00 p.m. Wed.; 9:00 p.m. Thurs-
 day, R
 John Charles Thomas, 9:00 p.m. Wednesday, B
 Lawrence Tibbett, 8:30 p.m. Tuesday, C
 Benay Venuta, 6:15 p.m. Tuesday, C
 Virginia Verrill, 7:15 p.m. Monday, C

TALKS

Bob Becker's Dog Chats, 5:30 p.m. Sunday, B
 Boake Carter, 7:45 p.m. daily, except Sat. and Sun., C
 Rev. Chas. E. Coughlin, 4:00 p.m. Sunday
 Thornton Fisher, 7:00 p.m. Saturday, R
 Gabriel Heatter, 5:45 p.m. Sunday, B
 Ivory Stamp Club, 7:15 p.m. Mon., Wed. and Fri., B
 H. V. Kaltenborn, 6:00 p.m. Friday, C
 Robt. L. Ripley, 7:30 p.m. Sunday, B
 Lowell Thomas, 6:45 p.m. daily, except Sat. and Sun., B
 To Arms for Peace, 9:30 p.m. Thursday, C
 Trans-Atlantic Broadcast, 12:45 p.m. Sunday, C
 Voice of Experience, 6:45 and 11:30 p.m. Sunday, C
 Frederic William Wile, 6:00 p.m. Saturday, C
 Walter Winchell, 9:30 and 11:15 p.m. Sunday, B
 Alexander Woolcott, 7:00 p.m. Sunday, C
 Your English, 3:00 p.m. Sunday, B



This is the control room apparatus of WEAJ at Bellmore, N. Y. At the left is the oscillograph on which a continuous moving picture of the station output may be observed.

In one month, the new interference department of the French Post Office carried out 3888 investigations and discovered no less than 13,465 pieces of machinery which were creating interference with broadcast reception.

THE MONTH'S CHANGES IN STATION DATA

NEW	
950 YNVA	Managua, Nic.
1210	Rochester, N. Y.
1230 YNOP	Managua, Nic.
1270 HRN	Tegucigalpa, Hond.
1275 YNLF	Managua, Nic.
1370 WBNY	Buffalo, N. Y.
1420 KNET	Palestine, Texas
1420 KRLH	Midland, Texas
1500 KRNR	Roseburg, Ore.
	WHBB Selma, Ala.

POWER	
710 KIRO	Seattle, Wash. 250 to 500
800 HIX	Santo Domingo, D. R., 1000 to 700
950 CMBC	Havana, Cuba, 200 to 500
970 WCFL	Chicago, Ill., 1500 to 5000
1010 CBML	Hamilton, Ont., 50 to 100
1010 CMJA	Camaguey, Cuba, 50 to 300
1120 CMKM	Manzanillo, Cuba, 50 to 200

FREQUENCY

800 HIX	Santo Domingo, D. R., from 1270
1100 KWKH	Shreveport, La., from 850
1210 TGW	Guatemala City, from 565
1500 CJIC	Sault Ste. Marie, Ont., from 890

CALLS

710 KIRO	Seattle, Wash. from KPCB
900 WELI	New Haven, Conn. from WMFI
1200 WCPO	Cincinnati, Ohio, from WFBE
1310 WEMP	Milwaukee, Wis., from WISC

RE-INSTATED

1310 XETB	Torreón, Coah.
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NETWORKS

850 WWL	New Orleans, La., new CBS
1240 WXYZ	Detroit, Mich., new NBC (Blue)
1270 WASH	Grand Rapids, Mich., new NBC
1270 WOOD	Grand Rapids, Mich., new NBC

DELETED

1310 WAML	Laurel, Miss.
1410 WRBX	Roanoke, Va.

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November DX Calendar

For a list of the frequency checks referred to, see the October DX calendar.

Sunday Mornings

November 3

2:00-4:00	CHAB	1200	100	Moose Jaw
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(Frequency check listing—KLCN to KUOA)

November 10

4:00-6:00	XEMO	865	2500	Tijuana
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November 17

1:00-2:00	YLZ	583	15000	Riga, Latvia
		1104	50000	Madona, Latvia
		1258	10000	Kuldiga, Latvia
3:00-5:00	WHAZ	1300	500	Troy
5:00-7:00	WTRC	1310	50	Elkhart

November 3, 10, 17, 24

All Night	KXL	1420	100	Portland
1:00-1:30	KFI	640	50000	Los Angeles
1:00-3:00	CMJA	1010	50	Camaguey
1:00-5:00	KIUP	1370	100	Ourango
2:00-4:00	XEWZ	1150	100	Mexico City
2:30-4:00	CKWX	1010	100	Vancouver
3:00-4:30	CKOV	630	100	Kelowna

Monday Mornings

November 4

(Frequency checks—WCNW to WLVA)				
2:45-3:00	KUJ	1370	100	Walla Walla
(Frequency checks—WHDL and WCAX)				
3:00-3:30	RN	1113	10000	Fecamp, Fr. n.c.
3:00-4:00	CHWK	780	100	Chilliwack
(Frequency checks—WSYB to KINY)				

November 18

1:41-1:49	CFCY	630	1000	Charlottet.
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November 25
 2:30-4:00 KADA 1200 100 Ada
November 4, 11, 18, 25
 12:01-1:00 WGES 1360 500 Chicago

Tuesday Mornings

November 5
 1:00-1:15 WBRE 1310 100 Wilkes-Barre
 (Frequency checks—WFAX and WBHS)
 2:15-2:45 WTBO 800 250 Cumberland
 (Frequency checks—WHBQ to KLS)
 5:00-5:15 WBNS 1430 500 Columbus
 (Frequency checks—WDNC to KFBC)

November 19

1:01-1:39 CRCS 950 100 Chicoutimi
 1:11-1:19 CJCB 1240 1000 Sydney
 1:21-1:29 CHNS 930 1000 Halifax
 1:30-2:30 749 1000000 Marselles
 1:31-1:39 CHRC 580 100 Quebec
 1:41-1:49 CFCY 630 1000 Charlottetown
 1:51-1:59 CJLS 1310 100 Yarmouth
 2:11-2:19 CHSJ 1120 500 St. John
 2:21-2:29 CKCW 1370 100 Moncton
 3:01-3:09 CHNC 1410 500 New Carlisle
 3:00-4:00 WDAY 940 1000 Fargo
 CPX 1230 10000 La Paz, Bolivia

November 26

1:00-3:00 OKB 922 32000 Brno, Czecho.
November 5, 12, 19, 26
 12:01-2:00 CMHW 810 100 Cienfuegos

Wednesday Mornings

November 6

1:00-1:30 WEBC 1280 1000 Duluth
 2:00-4:10 WIRE 1400 500 Indianapolis
 (Frequency checks—WEBB to WTMV)
 5:50-6:10 KVSO 1210 100 Ardmore

November 20

1:00-1:09 CRCS 950 100 Chicoutimi
 1:11-1:19 CJCB 1240 1000 Sydney
 1:21-1:29 CHNS 930 1000 Halifax
 1:31-1:39 CHRC 580 500 Quebec
 1:51-1:59 CJLS 1310 100 Yarmouth
 2:00-2:09 CFCY 630 1000 Fredericton
 2:00-2:30 KWTO 580 5000 Springfield
 2:11-2:19 CHSK 1120 500 St. John
 2:21-2:29 CKCW 1370 100 Moncton
 2:30-3:00 WDMI 1310 100 Ashland
 3:01-3:09 CHNC 1410 500 New Carlisle

3:15 on KGGM 1230 250 Albuquerque
 4:00-5:00 WIL 1200 100 St. Louis
November 6, 13, 20, 27

1:30-2:00 WKBB 1500 100 East Dubuque

Thursday Mornings

November 7

(Frequency checks—WSOC to KNOW)

November 14

2:15-2:30 WLLH 1370 100 Lowell

November 21

1:31-1:39 CJKL 530 1000 Kirkland Lake
 2:00-2:09 CFCY 630 500 Fredericton

November 28

2:30-3:30 WCAU 1170 50000 Philadelphia
 5:10-6:00 WFLA 620 1000 Clearwater

Friday Mornings

November 1

(Frequency checks—WJW to WMBH)

November 8

2:15-2:45 KPOF 890 500 Denver

November 15

3:30-4:30 KIDW 1420 100 Lamar

November 29

1:00-1:15 WLLH 1370 100 Lowell
 1:00-1:15 KPRC 920 1000 Houston
 1:15-1:45 IIGE 986 10000 Genoa, Italy
 2:15-2:30 WCSH 940 1000 Portland
November 1, 8, 15, 22, 29
 12:01-2:00 CFCN 1030 10000 Calgary

Saturday Mornings

November 2

(Frequency checks—WBRE to KGGM)

4:00-6:00 CMHX 760 500 Cienfuegos, Cuba

November 9

5:00-6:00 WNBX 1280 1000 Springfield

November 30

4:00-6:00 CMHX 760 500 Cienfuegos, Cuba
 5:15-5:45 WALA 1380 500 Mobile

November 2, 9, 16, 23, 30

12:01-1:00 CMCO 1110 250 Havana
 12:30-1:00 KDKA 980 50000 Pittsburgh
 2:00-4:00 KIUN 1420 100 Pecos
 3:00-5:00 XEAA 920 200 Mexico

Short Wave Stations By Frequencies

1.510 megs. 198.56 m.

CJD, Campbell River, B. C. 300 W. Minister of Lands for B. C.

CJK, Knight Inlet, B. C. 100 W. Anglo British Columbia Packing Co., Ltd.

VAC, Cape Lazo, B. C. 50 W. Dominion Gov. Sun., 0510-0540; 1010-1040; 1710-1740. Other days 0500-1945.

VAF, Alert Bay, B. C. 50 watts. Dominion Gov.
 YDA3, Tandjongpriok, N. E. I. 500 W. N. V. Nederlandsch Indische-Radio Omroep Moentschap, Konigsplein W. 5, Batavia-Centrum, Java, N. E. I. Daily, 0530-1100; 1745-1845; 2230-0130.

1.530 megs. 195.96 m.

YDB7, Soerabaya, N. E. I. 75 watts. Address, see YDA3 above. Daily, 0530-1100; 1745-1845; 2230-0130.

1.540 megs. 194.69 m.

CJD, Campbell River, B. C. 300 watts. Minister of Lands for B. C.

VBY, Lunenburg, N. S. 100 watts. Lunenburg Sea Products, Ltd. (Station operated by Canadian Marconi)

1.550 megs. 193.43 m.

YDA4, Soekaboemi, N. E. I. 25 watts. For address and schedule see YDA3, 1.510 megs.

1.566 megs. 191.46 m.

WIED, Broadcast pickup. 50 watts. National Broadcasting Co., 30 Rockefeller Plaza, N. Y. City
 WIEX, Broadcast pickup. 50 watts. Address, see WIED above.

1.570 megs. 190.96 m.

WPEQ, Baton Rouge, La. Police.
 YDB6, Malang, N. E. I. 100 watts. For address and schedule see YDA3, 1.510 megs.

1.574 megs. 190.48 m.

KGPY, Shreveport, La. Police.

1.580 megs. 189.76 m.

CJM, Borden, P. E. I. 100 watts. Works ships. Canadian National Railway.

1.585 megs. 189.16 m.

YDD3, Batavia (C), Java, N. E. I. 50 watts. N. V. Nederlandsch Indische Radlo Omroep Moents-

SHORT WAVE STATIONS BY FREQUENCIES

chapij, Koningsplein West 5, Batavia-Centrum, Java. N. E. I. 0530-1100; 1745-1845; 2230-0130.	
1.595 megs.	187.98 m.
YDB5, Solo, N. E. I. 25 watts. For address and schedule see YDD3, 1.585 megs.	
1.596 megs.	187.84 m.
CFC, Cub Lake, Sask. 100 watts. Dept. of Natural Resources, Govt. of the Province of Sask.	
CGQ, Lac la Ronge, Sask. 100 watts. Address, see CFC above.	
CGV, Emma Lako, Sask. 100 watts. Address CFC above.	
CZJ, Isle-a-la-Croise, Sask. 100 watts. Address CFC VYP, Prince Albert, Sask. Address, CFC above.	
WPGG, Findlay, Ohio. 500 W. State of Ohio, Highway police.	
WPGQ, Columbus, Ohio. 400 W.	
WPHC, Massillon, Ohio. 400 W. State of Ohio, Dept. of Highways.	
WPHK, Wilmington, Ohio.	
1.606 megs.	186.69 m.
KGXW, Port Alexander, Alaska. Karl Hansen.	
KIGA, Broadcast pickup. 7.5 watts. KSTP, St. Paul Hotel, St. Paul, Minn.	
KNED, Broadcast pickup. 50 watts. WBAP, Carter Publications, Ft. Worth, Tex.	
WHER, Broadcast pickup. (KDKA) Grant Bldg., Pittsburgh.	
WIEO, Broadcast pickup. 50 watts. NBC, 30 Rockefeller Plaza, N. Y. City.	
WIEW, Broadcast pickup. National Broadcasting Co.	
WIEX, Broadcast pickup. National Broadcasting Co.	
WJER, Broadcast pickup. WTMJ, The Milwaukee Journal, 333 W. State St., Milwaukee, Wisc.	
WMEF, Broadcast pickup. 150 W. National Broadcasting Co.	
....., Funtar Bay Camp, Alaska.	
1.610 megs.	186.22 m.
....., Springfield, Ill. Police.	
1.615 megs.	185.65 m.
YDB4, Tjepoe, N.E.I. 25 W. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Keningsplein W. 5, Batavia-Centrum, Java, N.E.I. 0530-1100; 1745-1845; 2230-0130.	
1.620 megs.	185.07 m.
CFD, Kenora, Ont. 150 W. Ontario Dept. of Lands and Forests.	
CFJ, Red Lake, Ont. Address CFD above.	
CFL, Tabouret, P. Q. 100 W. Laurentian Forest Protective Association, Ltd., 126 St. Peter St., Quebec, P. Q.	
CFM, Manicouagan River Estuary, P. Q. 100 W. Address CFL above.	
CZB, Bellevue, P. Q. 100 W. Address CFL above.	
CZY, Riviere du Chef, P. Q. 100 W. Address CFL above.	
CZZ, St. Felicien, P. Q. 100 W. Address CFL above.	
1.622 megs.	184.85 m.
KGXU, Port Armstrong, Alaska. Buchan c/o Heinen.	
KHP, Deep Cove, Alaska. (KIJV) Atlas Packing Co.	
KIED, Broadcast pickup. (KFWB, Warner Bros., Hollywood, Calif.)	
KIEF, Broadcast pickup. (WIL, Melbourne Hotel, St. Louis, Mo.)	
KIEL, Broadcast pickup. (KJR, Fishers Blend Station, Seattle, Wash.)	
KIFI, Broadcast pickup. (WDGY, Dr. Young, 909 W. Broadway, Minneapolis, Minn.)	
KIIQ, Broadcast pickup. (KMTR Radio Corp., Hollywood.)	
KIIJ, Port Conclusion, Alaska. Northwestern Herring Co.	
KIJK, Washington Bay, Alaska. Storfold & Gron-dahl.	
KIJO, Port Herbert, Alaska. P. H. Packing Co.	
KIJS, Newport Walter, Alaska. Chatham Strait Fish Co.	
KIJV, Deep Cove, Alaska. 50 watts. (KHP) Atlas Packing Co.	
KILU, Broadcast pickup. (KARK, N.S.L. Bldg., Little Rock, Ark.)	
KIOG, Red Bluff, Alaska. 50 watts. Richmond Fisheries Co.	
WIEH, Broadcast pickup. (WMCA, 1697 Broadway, N. Y. City)	
WJEP, Broadcast pickup. 100 watts. (WHAM, Stromberg-Carlson, 100 Carlson Road, Rochester, N. Y.)	
WKEM, Broadcast pickup. (WINS, Hearst Radio, 110 E. 58th St., N. Y. City)	
WNEI, Broadcast pickup. (WFBM, Indianapolis Power & Light Co., 48 Monument Circle, Ind.)	
1.630 megs.	183.94 m.
WEY, Boston, Mass. Marine Fire Station.	
WKDT, Detroit, Mich. Marine Fire Station.	
YDD2, Bandoeng, Java, N.E.I. 25 watts. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Tegallegah O. 23, Bandoeng. 0530-1100; 1745-1845; 2230-0130.	
1.634 megs.	183.48 m.
WPHE, Marion County, Ind. 1 kW. Indiana State Police.	
WPHS, Culver, Ind. 1 kW. Municipal police.	
WPHU, Jasper, Ind. 1 kW. State of Ind., Dept. of Safety.	
WQFE, Seymour, Ind. 1 kW. State of Ind., Dept. of Pub. Safety.	
W9XB, Portable in Indiana. 50 watts. (Expired ??)	
....., Columbia City, Ind. 1 kW. State police.	
....., Indianapolis, Ind. 100 watts. State police.	
1.640 megs.	182.82 m.
YDA3, Buitenzorg, N.E.I. 25 watts. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein W. 5, Batavia-Centrum, Java, N.E.I. 0530-1100; 1745-1845; 2230-0130.	
1.642 megs.	182.59 m.
WRDS, E. Lansing, Mich. 1 kW. night; 5 kW. day. State police.	
1.646 megs.	182.15 m.
WIEK, Broadcast pickup. Columbia Broadcasting System, 485 Madison Ave. at 52nd St., N. Y. City.	
WIEL, Broadcast pickup. Address WIEK above.	
WLEB, Broadcast pickup. WOKO Inc., Hotel Ten Eyck, Albany, N. Y.	
1.650 megs.	181.71 m.
VBY, Lunenburg, N. S. Works ships. Lunenburg Sea Products Ltd. Operated by Canadian Marconi.	
1.658 megs.	180.83 m.
KSW, Berkeley, Calif. Municipal police.	
WPGC, S. Schenectady, N. Y. 1 kW night; 5 kW day. State police.	
....., Redwood Falls, Minn. 500 watts.	
1.660 megs.	180.62 m.
YDB3, Djokja, N.E.I. 100 watts. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein W. 5, Batavia-Centrum, Java, N.E.I. 0530-1100; 1745-1845; 2230-0130.	

SHORT WAVE STATIONS BY FREQUENCIES

1.666 megs. 179.96 m. WMP, Framingham, Mass. 1 kW. State police. WPEL, W. Bridgeport, Mass. 1kW. State police. WPEV, Portable in Mass. 50 watts. State police. WPEW, Northampton, Mass. 1 kW. State police., Nashville, Tenn. Municipal police.	Ecuador, Estonia, Union of South Africa, United States of America.
1.668 megs. 179.75 m. CFC, Cub Lake, Sask. Dept. of Natural Resources, Govt. of the Province of Saskatchewan. CGQ, Lac la Ronge, Sask. Address CFC above. CGV, Emma Lake, Sask. Address CFC above. CZJ, Isle-a-la-Crosse, Sask. Address CFC above. VYP, Prince Albert, Sask. Address CFC above.	1.840 megs. 162.95 m. YDJ4, Cheribon, N.E.I. Batavia Radio Vereeniging.
1.674 megs. 179.10 m. KGHK, Palo Alto, Calif. 20 watts. Municipal police. KGZT, Santa Cruz, Calif. 100 watts. KIUK, Jefferson City, Mo. State police. WPSF, Harrisburg, Pa. 1 kW. State police.	1.850 megs. 162.06 m. YDU5, Bandjermasin, Borneo, N.E.I. Owners: "Eureka."
1.682 megs. 178.25 m. KGHO, Des Moines, Ia. State of Iowa, Bureau of Investigation. KNFN, Waterloo, Iowa. 400 watts. Municipal police. KNFO, Storm Lake, Iowa. 400 watts. City of S. L. W8XA, Portable in Ohio. 50 watts. Dept. of High- ways, Div. of State Highway Patrol.	1.860 megs. 161.19 m. YDK6, Semarang, N.E.I. Radio Vereeniging Midden Java.
1.688 megs. 176.57 m. KNGG, Phoenix, Ariz. 1 kW. Arizona State Highway Dept.	1.880 megs. 159.47 m. YDO9, Soerabaja, N.E.I. Owner: Holvast.
1.706 megs. 175.74 m. KGPC, St. Louis, Mo. City of S. L. WKDU, Cincinnati, Ohio. City of C. WPET, Lexington, Ky. City of L.	1.900 megs. 157.80 m. YDG6, Batavia, N.E.I. Batavia Radio Vereeniging.
1.712 megs. 175.13 m. CZG, Prince Rupert, B. C., 150 watts. B. C. Provincial police. KGHY, Whittier, Calif. 30 watts. City of W. KGJX, Pasadena, Calif. 400 watts. City of P. KGPJ, Beaumont, Tex. City of B. KGPL, Los Angeles, Calif. City of L. A. KGPQ, Honolulu, T. H. 100 watts. City and County of H. KGPR, Fort Worth, Tex. City of F. W. KGZB, Houston, Tex. City of H. KGZL, Shreveport, La. City of S. KGZQ, Waco, Texas. City of W. KGZY, San Bernardino, Calif. 50 watts. City of S. B. KNFJ, Pomona, Calif. 50 watts. City of P. KNGE, Cleburne, Tex. 50 watts. City of C. KNGL, Galveston, Tex. 50 watts. City of G. KVP, Dallas, Tex. 500 watts. City of D. VYR, Montreal, P. Q. 400 watts. Police calls in French and English. City of M. Police Dept. WPDE, Chicago, Ill. City of C. WPDC, Chicago, Ill. City of C. WPDD, Chicago, Ill. City of C. WPDU, Pittsburgh, Pa. City of P. WPED, Arlington, Mass. Town of A. WPEH, Somerville, Mass. City of S. WPEI, E. Providence, R. I. E. Prov. Police Dept. WPEJ, Brookline, Mass. City of B. WPFN, Newton, Mass. City of N. WPFN, Fairhaven, Mass. Address: City of New Bedford Police. WPGV, Boston, Mass. 500 watts. City of B. WPHG, Medford, Mass. 50 watts. City of M. WQFL, Oak Park, Ill. City of O. P., Denton, Texas.	1.920 megs. 156.16 m. YDH9, Bultenzorg, N.E.I. Batavia Radio Vereeniging.
1.715 megs to 2.000 megs. 174.82 m. to 149.91 meters Amateur Band. Phones in following countries hot between 1.875 and 2.000 megs. (149.91 m to 159.90 meters). Australia, Argentina, Canada	1.940 megs. 154.55 m. YDN2, Kediri, N.E.I. Owner: Goldberg.
	1.960 megs. 152.97 m. YDH8, Bandoeng, N.E.I. Owner: v. d. Heyden.
	1.980 megs. 151.42 m. YDO8, Soerabaja, N.E.I. Owner: Gazellehuis.
	2.020 megs. 148.43 m. KNED, Broadcast pickup. 50 watts. (WBAP, Black- stone Hotel, Ft. Worth, Texas). WIEO, Broadcast pickup. 50 watts. N. B. C., 30 Rockefeller Plaza, N. Y. City. WMEF, Broadcast pickup. 150 watts. Address WIEO above.
	2.050 megs. 146.25 m. W9XAK, Manhattan, Kans. Television. Mon., 1945- 2030. Wed. 2100-2200.
	2.060 megs. 145.54 m. KIFO, Broadcast pickup. 200 watts. KIIQ, Broadcast pickup. (KMTR Radio Corp., Hollywood) WJEP, Broadcast pickup. 100 watts. (WHAM, Stromberg-Carlson, Rochester, N. Y.) WNER, Broadcast pickup. 100 watts. WAIU, Deshler- Wallick Hotel, Columbus, Ohio.
	2.070 megs. 144.84 m. YD07, Soerabaja, N.E.I. Owner: v. Wingen.
	2.090 megs. 143.45 m. YDG5, Batavia, Java, N.E.I. Batavia Radio Vereenig- ing.
	2.102 megs. 142.64 m. KIGA, Broadcast pickup. KSTP, St. Paul Hotel, S. P. Minn. KIGW, Broadcast pickup. KNED, Broadcast pickup. 50 watts. (WBAP, Black- stone Hotel, Ft. Worth, Texas) WHER, Broadcast pickup. (KDKA, Grant Bldg., Pittsburgh). WIEO, Broadcast pickup. 50 watts. Address WIEO, 2.020 megs. WIEW, Broadcast pickup. Address WIEO, 2.020 megs. WIEX, Broadcast pickup. Address WIEO, 2.020 megs. WJER, Broadcast pickup. WTMI, The Journal Co., 333 W. State St., Milwaukee, Wisc. WMEF, Broadcast pickup. 150 watts. Address WIEO, 2.020 megs.

SHORT WAVE STATIONS BY FREQUENCIES

2.110 megs. 142.09 m.
W1XH, Boston, Mass. **YD12**, Soekaboemi, N.E.I., Batavia Radio Vereeniging.

2.150 megs. 139.45 m.
KIED, Broadcast pickup. **KFWB**, Warner Bros., Hollywood, Calif.
KIEF, Broadcast pickup. **WIL**, Melbourne Hotel, St. Louis, Mo.
KIEL, Broadcast pickup. **KJR**, Fishers Blend Station, Skinner Bldg., Seattle, Wash.
KIEO, Broadcast pickup. **KFSD**, U. S. Grant Hotel, San Diego, Calif.
KIFI, Broadcast pickup. **WDGY**, Dr. Young, 909 W Broadway, Minneapolis, Minn.
KIFT, Broadcast pickup. **KJBS**, 1380 Bush St., San Francisco, Calif.
KIIQ, Broadcast pickup. **KMTR** Radio Corp., 915 N. Formosa Ave., Hollywood, Calif.
KILB, Broadcast pickup. 50 watts. **KWKH**, Spring and Fannin Sts., Shreveport, La.
KILU, Broadcast pickup. 5 watts. **KARK**, N.S.L. Bldg., Little Rock, Ark.
WIEG, Broadcast pickup. **WMC**, 1697 Broadway, N. Y. City.
WKEM, Broadcast pickup. Hearst Radio, 110 E. 58th St., N. Y. C.
WLEZ, Broadcast pickup. **WJAG**, Norfolk Daily News, Norfolk, Nebr.
WNEI, Broadcast pickup. **WFBM**, I. Power & Light Co., 48 Monument Circle, Indianapolis, Ind.

2.190 megs. 136.90 m.
KIHH, Broadcast pickup. **KFAB**, Cornhusker Hotel, Lincoln, Nebr.
WIEK, Broadcast pickup. Columbia Broadcasting System, 485 Madison Ave. at 52nd St., New York City.
WIEL, Broadcast pickup. Address **WIEK** above.

2.212 megs. 135.54 m.
VYZ, High Falls, P. Q. 50 watts. James McLaren Co., Ltd.

2.284 megs. 131.22 m.
CFT, Leamington, Ont. 14 watts. Dept. of Public Works.
CFX, Pelee Island, Ont. 22 watts. Dept. of Public Works.
CKB, Picou, N. S. 15 watts. Dept. of Public Works.
CKO, Crane Island, P. Q. 15 watts. Dept. of Public Works.
CKP, Montmagny, P. Q. 15 watts. Dept. of Public Works.
CKU, Picou Island, N. S. 15 watts. Dept. of Public Works.

2.290 megs. 130.93 m.
CFV, Namu, B. C. 100 watts. British Columbia Packers, Ltd.
CFW, Bones Bay, B. C. 100 watts. Canadian Fishing Co., Ltd.
CJE, Ceepeece, B. C. 10 watts. Canadian Packing Corp.
CJX, Margaret Bay, B. C. Canadian Fishing Co., Ltd.
CZL, Humpback Bay, B. C. 100 watts. Chatham Sound Fishing & Packing Co., Ltd.
VFJ, Homalke, B. C. 100 watts. Homalke Logging Co., Ltd.

2.304 megs. 130.13 m.
KBAI, Ketchikan, Alaska. Forestry.
KMYA, Juneau, Alaska. Forestry.

2.350 megs. 127.58 m.
VBQ, Halifax, N. S. 25 watts. Works ships in harbor.
YDE5, Djokjakarta, N. E. I. 25 watts. N. V. Neder-

landsche Indische Radio Omroep Moetschappij, Koningsplein W. 5, Batavia-Centrum, Java. 0530-1100; 1745-1845; 2230-0130.

2.382 megs. 125.87 m.
KGHT, Brownsville, Tex. 25 watts. City of B.
KGHW, Corpus Christi, Texas. 50 watts. City of C. C.
KNFE, Duluth, Minn. City of D. Police.
WPDN, Auburn, N. Y. Police.
WPEA, Syracuse, N. Y. City of S. Police.
WPFM, Birmingham, Ala. 400 watts. City of B. Police.
WPGW, Mobile, Ala. 400 watts. City of M. Police.
 , Green Bay, Wisc.
 , Hibbing, Minn.

2.385 megs. 125.71 m.
YDA2, Batavia (C), Java, N. E. I. 150 watts. N. V. Nederlandsche Indische Radio Omroep Moetschappij, Koningsplein W. 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.

2.390 megs. 125.45 m.
WIED, Broadcast pickup. 50 watts. N. B. C., 30 Rockefeller Plaza, N. Y. City.
WIEX, Broadcast pickup. 50 watts. Address **WIED** above.

2.396 megs. 125.14 m.
VYM, Winnipeg, Man. 600 watts. Board of Police Commissioners. Tests 15, 35 and 55 minutes past each hour.

2.406 megs. 124.61 m.
KGHZ, Little Rock, Ark. City of L. R. Police.
KGPW, Salt Lake City, Utah. City of S. L. C. Police.
 , Fort Smith, Ark.

2.414 megs. 124.20 m.
KGHW, Centralla, Wash. 15 watts. City of C. Police.
KGPA, Seattle, Wash. Seattle Police Dept.
KGPF, Santa Fe, N. Mex. 25 watts. Police.
KGPS, Bakersfield, Calif. City of B. Police.
KGZA, Fresno, Calif. 500 watts. City of F. Police.
KGZM, El Paso, Texas. City of E. P. Police.
KGZN, Tacoma, Wash. City of T. Police.
KGZO, Santa Barbara, Calif. City of S. B. Police.
KGZV, Aberdeen, Wash. 150 watts. City of A. Police.
KGZX, Albuquerque, N. Mex. City of A. Police.
KNFA, Clovis, N. Mex. 50 watts. City of C. Police.
KNFI, Mt. Vernon, Wash. 50 watts. Skagit County Police.

KNFP, Everett, Wash. 50 watts. City of E. Police.
KNGU, Yakima, Wash. 100 watts.
WCK, Detroit, Mich. D. City Police.
WMO, Highland Park, Mich. City of H. P. Police.
WPDA, Tulare, Calif. 150 watts.
WPDJ, Passaic, N. J.
WPDX, Detroit, Mich. City of D. Police.
WPDY, Atlanta, Ga. City of A. Police.
WPFH, Baltimore, Md. City of B. Police.
WPFJ, Columbus, Ga. City of C. Police.
WPGH, Albany, N. Y. 300 watts. City of A. Police.
WPGJ, Utica, N. Y. 100 watts. City of U. Police.
WPGM, La Grange, Ga. 50 watts.
WQFB, Macon, Ga. 50 watts.
WRDR, Grosse Pointe, Mich. Township of G. P.
 , Augusta, Ga.
 , Lodi, Calif. 50 watts.
 , Onoonta, N. Y. 50 watts.

2.415 megs. 124.15 m.
YDE4, Soerabaja, N. E. I. 75 watts. N. V. Nederlandsche Indische Radio Omroep Moetschappij, Koningsplein West 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.

SHORT WAVE STATIONS BY FREQUENCIES

2.416 megs.	124.09 m.		
CJW, Saint John, N. B. 15 watts. Dept. of Public Safety.			
CZG, Prince Rupert, B. C. 150 watts. B. C. Provincial Police.			
2.422 megs.		123.79 m.	
KGPE, Kansas City, Mo. City of K. C. Police.			
KGPG, Vallejo, Calif. City of V. Police.			
KGZC, Topeka, Kans. City of T. Police.			
KNFF, Leavenworth, Kans. 100 watts. City of L.			
KNGF, Sacramento, Calif. 500 watts.			
KSW, Berkeley, Calif.			
WMJ, Buffalo, N. Y. City of B. Police, 757 E. Perry St.			
WNFF, Niagara Falls, N. Y. 135 watts. City of N. F.			
WPDF, Rochester, N. Y. City of R. Police.			
WPDW, Washington, D. C. Municipal Police.			
WPFU, Portland, Me. City of P. Police.			
WPHB, Nashua, N. H. 50 watts. City of N. Police.			
....., Salina, Kans. 50 watts.			
2.430 megs.		123.38 m.	
KGHX, Santa Ana, Calif. 400 watts. Orange county Police.			
KGPB, Minneapolis, Minn. 500 watts. City of M.			
KGZI, Phoenix, Ariz. Municipal Police.			
KNGP, Shreveport, La. 180 watts.			
WPMI, Columbus, Ohio. Franklin County Police.			
WPDN, Dayton, Ohio. City of D. Police.			
WPEK, St. Paul, Minn. City of S. P. Police.			
WPEK, New Orleans, La. 250 watts. City of N. O. Police.			
WPDF, Highland Park, Ill.			
WPFK, Hackensack, N. J. Bergen County Police Dept.			
WPGI, Portsmouth, Ohio. 50 watts. City of P. Police.			
WPHO, Zanesville, Ohio. 50 watts.			
WQFO, Lancaster, Ohio. 50 watts. City of L. Police.			
....., Prescott, Ariz.			
2.442 megs.		122.77 m.	
KGHU, Austin, Texas. 100 watts. City of A. Police.			
KGPP, Portland, Ore. City of P. Police.			
KGPX, Denver, Colo. City and County of D. Police.			
KGZH, Klamath Falls, Ore. City of K. F. Police.			
KGZR, Salem, Ore. 50 watts. City of S. Police.			
WMBZ, Indianapolis, Ind. Municipal Police.			
WPEE, Louisville, Ky. City of L. Police.			
WPDF, Flint, Mich. City of F. Police.			
WPDH, Richmond, Ind. City of R. Police.			
WPDL, Lansing, Mich. City of L. Police.			
WPEB, Grand Rapids, Mich. 500 watts. City of G. R.			
WPEB, Saginaw, Mich. City of S. Police.			
WPFK, Muskegon, Mich. City of M. Police.			
WFFE, Reading, Pa. City of R. Police.			
WFGF, Jacksonville, Fla. City of J. Police.			
WFFT, Lakeland, Fla. 50 watts. City of L. Police.			
WPFX, Palm Beach, Fla. 50 watts. Town of P. B.			
WPFY, Yonkers, N. Y. 400 watts. City of Y. Police.			
WPFZ, Miami, Fla. 100 watts. City of M. Police.			
WPLG, Binghamton, N. Y. 400 watts. City of B.			
WPGM, Muncie, Ind. 100 watts. City of M. Police.			
WPHM, Orlando, Fla. 50 watts. City of O. Police.			
WQFQ, Lafayette, Ind. 50 watts. City of Lafayette.			
....., Fargo, N. Dak.			
....., Wilkes-Barre, Pa.			
....., Winter Haven, Fla.			
2.450 megs.		122.38 m.	
KGHN, Hutchinson, Kans. 50 watts. City of H.			
KGPH, Oklahoma City, Okla.			
KGPO, Tulsa, Okla. City of Tulsa Police.			
KGPZ, Wichita, Kans. 250 watts. City of W. Police.			
KGZF, Chanute, Kans. 25 watts. City of C. Police.			
KGZP, Coffeyville, Kans. City of C. Police.			
KNGK, Duncan, Okla. 50 watts.			
KNGM, Rapid City, S. Dak. 50 watts. City of R. C.			
KNGO, Mobile in Airplane, Oklahoma State Police. 50 watts.			
KNGT, Muskogee, Okla. 50 watts.			
WPDK, Milwaukee, Wisc. City of M. Police.			
WPEE, Brooklyn, N. Y. City of New York Police.			
WPEF, Bronx, N. Y. City of New York Police.			
WPEG, New York, N. Y. City of N. Y. Police.			
WPEP, Kenosha, Wisc. 100 watts. City and County of K. Police.			
WPHF, Richmond, Va. 150 watts. City of R. Police.			
WQFG, Roanoke, Va. 100 watts.			
WQFH, Lynchburg, Va. 50 watts. City of L.			
YDBZ, Semarang, N. E. I. 150 watts. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein West 5, Batavia-Centrum, Java, N. E. I. 0530-2100; 1745-1845; 2230-0130.			
....., Ada, Oklahoma.			
....., Milwaukee, Wisc.			
....., Petersburg, Va. 50 watts. City of P. Police.			
2.452 megs.		122.27 m.	
CGZ, Vancouver, B. C. 400 watts. Corp. of the City of V.			
CJZ, Verdun, P. Q. 20 watts. City of V. Police.			
2.458 megs.		121.97 m.	
KGHS, Spokane, Wash. 100 watts. City of S. Police.			
KGZI, Wichita Falls, Tex. City of W. F. Police.			
KGZW, Lubbock, Texas. 150 watts. City of L. Police.			
KNFB, Idaho Falls, Ida. 500 watts.			
WPDG, Youngstown, Ohio. 250 watts. City of Y.			
WPDO, Akron, Ohio. 250 watts. City of A. Police.			
WPDV, Charlotte, N. C. City of C. Police.			
WPFSS, Asheville, N. C. 200 watts. Buncombe County Police.			
WPGD, Rockford, Ill. City of R. Police.			
WPHD, Steubenville, Ohio. 100 watts.			
WRBH, Cleveland, Ohio. City of C. Police.			
....., Brownwood, Texas. 50 watts.			
2.466 megs.		121.58 m.	
KGHP, Lawton, Okla. 50 watts. City of L. Police.			
KGOZ, Cedar Rapids, Iowa. 50 watts. City of C. R.			
KGPD, San Francisco, Calif. City and County of S. F. Police.			
KGPJ, Omaha, Nebr. City of O. Police.			
KGPK, Sioux City, Iowa. City of S. C. Police.			
KGPB, San Jose, Calif.			
KGPB, Davenport, Iowa. City of D. Police.			
KGZG, Des Moines, Iowa. City of D. M. Police.			
WPEC, Memphis, Tenn. City of M. Police.			
WPEB, Woonsocket, R. I. City of W. Police.			
WPFV, Pawtucket, R. I. City of P. Police.			
WPFW, Bridgeport, Conn. 50 watts. City of B. Police.			
WPGA, Bay City, Mich. City of B. C. Police.			
WPGH, Port Huron, Mich. City of P. H. Police.			
WPGK, Cranston, R. I. 50 watts. City of C. Police.			
WPGX, Worcester, Mass. 100 watts. City of W. Police.			
WPHB, Fitchburg, Mass. 50 watts. City of F. Police.			
WPHN, Tampa, Fla. 100 watts. City of T. Police.			
WPHP, Jackson, Mich. 50 watts. City of J. Police.			
WQFA, New Haven, Conn. 100 watts.			
....., Clearwater, Fla. 50 watts. City of C. Police.			
....., Gainesville, Fla. 50 watts.			
2.474 megs.		121.19 m.	
KGHG, Las Vegas, Nev. 50 watts.			
KGHM, Reno, Nev. 50 watts. City of R. Police.			
KNFH, Garden City, Kans. 50 watts. City of G. C.			
KNGH, Dodge City, Kans. 50 watts.			
WPDF, Philadelphia, Pa. City of P. Police.			
WPFQ, Knoxville, Tenn. City of K. Police.			
WPFQ, Swarthmore, Pa. Borough of S. Police.			
WPFSS, Asheville, N. C. 200 watts. Buncombe County Police.			
WPGZ, Johnson City, Tenn. 50 watts. City of J. C.			
WPHY, Elizabethton, Tenn. 100 watts. Carter County, Police.			
WRDQ, Toledo, Ohio. 400 watts. City of T. Police.			

SHORT WAVE STATIONS BY FREQUENCIES

<p>2.482 megs. 120.80 m. KGZE, San Antonio, Tex. City of S. A. and State of Texas Police. WPGT, New Castle, Pa. 50 watts. City of N. C. Police. WPHZ, Oil City, Pa. 50 watts. City of O. C. Police. Monessen, Pa. 50 watts. , Sharon, Pa.</p>	<p>2.490 megs. 120.41 m. KGHA, Snowplow No. A232, 10 watts. State of Wash. KGHB, Snowplow No. A227, 10 watts. State of Wash. KGHC, Portable in Washington. 10 watts. State of W. KGHD, Seattle, Wash. 50 watts. State of Wash. KGHE, Snoqualmie Pass, Wash. State of W., Highway & Police Dept. KGHQ, Chinook Pass, Wash. 10 watts. State of W., Highway & Police. KGHR, Portable in Wash. 10 watts. State of Wash. KGZD, San Diego, Calif. City of S. D. Police. Two transmitters, one 50 watts and another, 100 watts. KGZU, Lincoln, Nebr. City of L. Police. KNFG, Olympia, Wash. 50 watts. State of W. Police. KNFK, Bellingham, Wash. 50 watts. State of Wash. KNFL, Shuksan Camp, Wash. 10 watts. State of Wash. Highways. KNFM, Compton, Calif. 25 watts. KNFR, Rotary Snow Plow. 10 watts. State of Wash., Highway and Police Dept. KNFS, Rotary Snow Plow. 10 watts. State of Wash., Highway and Police Dept. KNFU, Skykomish, Wash. 10 watts. State of W. KNFX, Ellensburg, Wash. 10 watts. Address KNFS above. KNFY, Bear River Camp, Wash. KNFZ, Hells Crossing Camp, Wash. 10 watts. KNGA, Satus Pass Camp, Wash. 10 watts. KNGB, Yakima, Wash. 50 watts. KNGC, Vancouver, Wash. 50 watts. KNGD, Walla Walla, Wash. 10 watts. KNGJ, El Centro, Calif. 50 watts. KNGN, Norfolk, Nebr. 25 watts. KNGQ, Wenatchee, Wash. 50 watts. Address KNFS. KNGR, Spokane, Wash. 50 watts. Address KNFS. WPDT, Kokomo, Ind. City of K. Police. WPDZ, Fort Wayne, Ind. City of F. W. Police. WPFH, Clarksburg, W. Va. City of C. Police. WPGN, South Bend, Ind. 100 watts. City of S. B. Police. WPGO, Huntington, N. Y. 25 watts. Town of H. Police. WPGS, Mineola, N. Y. County of Nassau Police. WPHI, Charleston, W. Va. 50 watts. City of C. Police. WPHJ, Fairmont, W. Va. 100 watts. WPHQ, Parkersburg, W. Va. 50 watts. City of P. Police. , Ephrata, Wash. 10 watts. State of Wash., Highway & Police.</p>	<p>2.526 megs. 119.64 m. KLH, San Rafael, Calif. Pacific Telephone & Telegraph Co. WOU, Marshfield, Mass. Phones fishing vessels.</p>	<p>2.528 megs. 118.13 m. KDH, Port Alexander, Alaska. Karl Hansen. KDK, Wrangell, Alaska. Works KIJJ, KLA, KFF, KLD daily at 0130. Owner: A. R. Brueger. KDV, Cordova (Eyak River), Alaska. Pioneer Sea Foods Co. WNFG, M. S. Arb No. 3. Owner: A. R. Brueger.</p>	<p>2.550 megs. 117.58 m. WMES, Lorain, Ohio. 500 watts. Public Coastal Station. Lorain County Radio Corp.</p>	<p>2.566 megs. 116.84 m. KFF, Union Bay, Alaska. Works KDK. Nakat Packing Corp. KHV, Nakeen, Alaska. Nakat Packing Corp. KLA, Waterfall, Alaska. Works KDK. Address above. KLD, Hidden Inlet, Alaska. Works KDK. Address above. KOU, Wilmington, Calif. Southern Calif. Telephone Co. WLFP, M. S. "Alaskan". Works KDK. A number of Motorships owned by the Nakat Packing Corp. work on this frequency.</p>	<p>2.590 megs. 115.76 m. WOX, St. George, Staten Island, N. Y. Harbor phone. New York Telephone Co.</p>	<p>2.604 megs. 115.14 m. KNIA, Glacier National Park, Montana. KNKS, Yosemite National Park, Calif. KNKU, Yosemite National Park, Calif. KNKX, Deer Camp, Yosemite, Calif. KNKY, Devil's Post Pile Nat'l. Monument, Calif. WVD, Seattle, Wash. 500 watts. Alaskan Telephone Co., 517 Federal Office Bldg., Seattle. WXH, Ketchikan, Alaska. Works WVD. WYBF, Napoleon, Mo. 500 watts. United States Army.</p>	<p>2.616 megs. 114.61 m. KION, Tin City, Alaska. 200 watts. American Tin Fields, Inc.</p>	<p>2.632 megs. 113.91 m. KGI, Nellie Juan, Alaska. (KIOD) Copper River Packing Co. KGX, Port Wakefield, Alaska. (KIOC) Apex Fish Co. KIJW, Shearwater Bay, Alaska. Kadiak Fisheries Co. KIJX, Kadiak Island, Alaska. Kadiak Fisheries. KIMA, Port Hobron, Alaska. American Pacific Whaling Co. KIOC, Port Wakefield, Alaska. (KGX) Apex Fish Co. KIOD, Nellie Juan, Alaska. 50 watts. Phones Anchorage and ships. Copper River Packing Co. KIOH, Iron Creek (Raspberry Straits), Alaska. 50 watts. Southwestern Herring Co. KIOI, Akutan, Alaska. 50 watts. American Pacific Whaling Co. , Funter Bay Camp, Alaska.</p>	<p>2.670 megs. 112.29 m. NMC, Point Bonita, Calif. 200 watts. United States Coast Guard. NMD, Cleveland, Ohio. 200 watts. NMF, Winthrop, Mass. 200 watts. U. S. Coast Guard. NMG, Mobile, Ala. U. S. Coast Guard. NMN, Cape Henry, Va. 200 watts. U. S. Coast Guard. NMP, Wilmette, Ill. 200 watts. NMV, Fort Lauderdale, Fla. 200 watts. U. S. Coast Guard. NMW, Grays Harbor, Wash. 200 watts. NMY, Rockaway Point, N. Y. 200 watts. U. S. Coast Guard. NOB, Buffalo, N. Y. 200 watts. U. S. Coast Guard. NOF, St. Petersburg, Fla. 200 watts. U. S. Coast Guard.</p>
<p>2.512 megs. 119.36 m. KGM, Ketchikan, Alaska. Alaska Pacific Salmon Co. KLB, Port Althorp, Alaska. Address KGM above. KLC, Kake, Alaska. Address KGM above. KLE, Rose Inlet, Alaska. Address KGM. SHIPS owned by Alaska Pacific Salmon Co. as follows: KGJK, Jeannette E.; KGNM, Doris E.; KGNX, Yes Bay; WDEM, Wm. T. Muir; WFFR, Frances E.; WIDL, Leonine; WIDM, Sally S.; WIDN, Virginia E.; WNFM, Alco.</p>	<p>2.522 megs. 118.88 m. KOW, Edmonds, Wash. Pacific Telephone & Telegraph Co.</p>									

SHORT WAVE STATIONS BY FREQUENCIES

NOG, Gloucester, Mass. 50 watts. U. S. Coast Guard Base 7.	2.850 megas.	105.20 m.	YDG4, Batavia, Java, N. E. I. Owner: Lindeteves Stokvis.
NOJ, San Pedro, Calif. 200 watts. U. S. Coast Guard Base 17.			
NOM, Miami, Fla.	2.870 megas.	104.47 m.	YDA6, Cheribon, N. E. I. 15 watts.
NOP, Woods Hole, Mass. 50 watts. U. S. Coast Guard, Section Base 18.	YDJ3, Tegal, N. E. I. Owner: v. Wingen.		
NOR, Sault Ste. Marie, Mich. 200 watts.	2.890 megas.	103.74 m.	YDJ2, Pekalongan, N. E. I. Owner: v. Wingen.
NOU, New London, Conn. 200 watts. U. S. Coast Guard.	2.910 megas.	103.03 m.	YDE3, Semarang, N. E. I. 15 watts.
NOV, Cape May, N. J. 200 watts. U. S. Coast Guard.	YDK3, Semarang, N. E. I. Owner: v. Wingen.		
NOY, Galveston, Texas. 200 watts.	2.912 megas.	102.96 m.	KHW, Akutan, Alaska. American Pacific Whaling Co.
NOZ, Port Townsend, Wash. 200 watts.	KHZ, Port Hobron, Alaska. Address KHW.		
....., Yaquina Bay, Ore. U. S. C. G.	2.930 megas.	102.33 m.	WMEP, Suffield, Ohio. 200 watts.
2.698 megas.	111.13 m.		WMEU, St. Petersburg, Fla. 400 watts.
NMD, Cleveland, Ohio. 200 watts.			WMEV, Opa Locka, Fla. (Goodyear Zeppelin Base). 400 watts.
NMP, Wilmette, Ill. 200 watts.	2.710 megas.	110.63 m.	WDOS, Soerabaja, N. E. I. Owner: Goldberg.
NOB, Buffalo, N. Y. 200 watts. U. S. Coast Guard.	YDK5, Semarang, N. E. I. Radio Vereniging Midden-Java.		
NOR, Sault Ste. Marie, Mich. 200 watts.	2.726 megas.	109.98 m.	2.950 megas.
....., Arena Cove, Calif. Works NMC. U. S. C. G.	KIIV, San Gabriel Dam No. 2, Calif. 200 watts. Los Angeles County Flood Control District.		YDQS, Malang, N. E. I. Owner: Vis.
2.710 megas.	110.63 m.		2.980 megas.
YDK5, Semarang, N. E. I. Radio Vereniging Midden-Java.			100.61 m.
			CZA, Drummondville, P. Q. 4 kW. Phones ships. Canadian Marconi Co., Box 1690, Montreal, P. Q.
2.726 megas.	109.98 m.		2.986 megas.
KIIV, San Gabriel Dam No. 2, Calif. 200 watts. Los Angeles County Flood Control District.			100.41 m.
KIIX, Tujunga Dam No. 1, Calif. Address KIIV above.	2.728 megas.	109.90 m.	KDX, M. S. LeMerced (vessel moored in vicinity of False Pass, Alaska). 50 watts. Alaska Southern Packing Co.
KIIV, Los Angeles, Calif. 400 watts. Address KIIV above.	KIJY, Hood River, Ore. 100 watts. Special emergency station owned by Crag Rats, Inc., a mountain-climbing organization.		KGQ, Todd, Alaska. Peril Straits Packing Co.
KINT, Portable, Los Angeles County, Calif. 50 watts. Address above.	KIJZ, Portable in Oregon. See above.		KIJP, Uganik, Alaska. Works KIJR, KIJU. San Juan Fishing & Packing Co.
2.728 megas.	109.90 m.		KIJR, Port San Juan, Alaska. Works KIJP, KIJU. Address KIJP.
KIJY, Hood River, Ore. 100 watts. Special emergency station owned by Crag Rats, Inc., a mountain-climbing organization.			KIJU, Todd, Alaska. Works KIJR, KIJP. Peril Straits Packing Co.
KIJZ, Portable in Oregon. See above.			WNFJ, M. S. Sunset. Alaska Southern Packing Co.
2.738 megas.	109.50 m.		2.994 megas.
KLKJ, M. S. La Merced. Alaska Southern Packing Co.			100.14 m.
VGBQ, Yacht Seyelyn II. Capt. Paul F. Johnson.			KDY, Pillar Bay, Alaska. Fidalgo Island Packing Co.
WDDQ, "Zapora" Wiils Navigation Co.			KIEJ, Poorman, Alaska. 50 watts. Owner: W. N. Growden.
WDFL, "El Ferrito". Ben S. McGlashan, KGFJ, 1417 S. Figueroa, Los Angeles.			KIJJ, Tanana, Alaska. Northern Commercial Co.
WIFI, S. S. Cadrew, in Seattle Harbor, Wash. Works ships in harbor. Owner, A. E. Griswold.			KIJK, Circle, Alaska. 50 watts. Phones Fairbanks, Anchorage, etc. Northern Commercial Co.
WLFJ, "Onawa". C. M. Poncin.			KIIL, Fort Yukon, Alaska. 50 watts. Phones WXP Fairbanks, and WXE Anchorage. Northern Commercial Co.
WLF5, "Uganik". San Juan Fishing & Packing Co.			KIIM, Hot Springs, Alaska. 50 watts. See KIIL above.
WOFM, "Principia". L. A. Macomber.			KIIN, Eagle, Alaska. 50 watts. See KIIL above.
2.750 megas.	109.03 m.		KIIO, McGrath, Alaska. 50 watts. See KIIL above.
YDL6, Djokjakarta, N. E. I. Owner: v. Wingen.			KIY, Cape Pole, Alaska. 50 watts. A. R. Brueger.
2.760 megas.	108.63 m.		KIY, Excursion Inlet, Alaska. 50 watts. Astoria & Puget Sound Canning Co.
KNED, Broadcast pickup. 50 watts. (WBAP) Blackstone Hotel, Ft. Worth, Texas.			KNBZ, Pillar Bay, Alaska. (KDY) Address KDY above.
WIEO, Broadcast pickup. 50 watts. N. B. C., 30 Rockefeller Plaza, N. Y. City.			3.040 megas.
WMEF, Broadcast pickup. 150 watts. Address WIEO above.			98.62 m.
2.770 megas.	108.24 m.		CFQ, Edmonton, Alta. Edmonton Journal, Ltd.
YD06, Soerabaja, N. E. I. Owner: Eureka.			CGE, Calgary, Alta. 100 watts. Calgary Herald Ltd., Southam Bldg.
2.790 megas.	107.46 m.		CKS, Portable. 180 watts. Calgary Herald; see above.
YDN3, Madioen, N. E. I. Owner: v. Wingen.			YDA, Tandjongpriok, N. E. I. 10 kW. N. V. Nederlandsche Indische Radio Omroep Meatschappij, Koningsplein West 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.
2.810 megas.	106.70 m.		3.070 megas.
YDQ6, Malang, N. E. I. Owner: v. Wingen.			97.66 m.
2.830 megas.	105.94 m.		CJU, Winnipeg, Man. Canadian Airways, Ltd.
YDU4, Medan, Sumatra, N. E. I. Owner: Avrom.			

SHORT WAVE STATIONS BY FREQUENCIES

(Western Lines), 80 Brock St., Winnipeg.
WKDL, Miami, Fla. (airway).
WMDU, San Juan, Puerto Rico. (airway).

3.093 megs. 96.94 m.
KIAP, Rose Inlet, Alaska. 100 watts.
 Alaska Pacific Salmon Co.
KIAW, Port Althorp, Alaska. Address KIAP above.
KIAY, Ketchikan, Alaska. Address KIAP above.
KIBA, Kake, Alaska. Address KIAP above.
KIGI, View Cove, Dall Island, Alaska. 50 watts.
 Superior Portland Cement Co.
KIIP, Willow Creek Mines, Luckyshot, Alaska. 30
 watts. Phones Anchorage. Owner: W. E.
 Dunkle.
KIKN, Eyak River, Alaska. 50 watts. Pioneer Sea
 Foods Co.

3.125 megs. 95.94 m.
SHIPS work between 3.125 and 3.147 megs. (95.27
 to 95.94 meters).
 A number of SHIPS are listed on 4.413 megs.
 and 4.430 megs. We do not know definitely
 which of these ships work also on 3.125-3.147
 megs. Reports of actual reception from
 listeners are invited.

3.130 megs. 95.79 m.
YDH6, Bandoeng, N. E. I. Owner: Prot. Kerk.

3.150 megs. 95.18 m.
YDG3, Batavia, Java, N. E. I. Owner: Luyks.

3.152 megs. 95.12 m.
CGM, Montreal, P. Q. Canadian Marconi Co., Box
 1690, M. Phones CGY.
CGY, Yamachiche, P. Q. Phones CGM. Address
 CGM above.

3.155 megs. 95.03 m.
KBCJ, San Francisco, Calif. Weather Bureau.

3.170 megs. 94.58 m.
YD04, Soerabaja, N. E. I. Owner: Jarico.

3.190 megs. 93.99 m.
KIJJ, Tanana, Alaska. Northern Commercial Co.
KIJK, Circle, Alaska. 50 watts. Phones Fairbanks
 and Anchorage. Northern Commercial Co.
KIIL, Fort Yukon, Alaska. 50 watts. See KIJK above.
KIIM, Hot Springs, Alaska. 50 watts. See KIJK
 above.
KIIN, Eagle, Alaska. 50 watts. See KIJK above.
KIIO, McGrath, Alaska. 50 watts. See KIJK above.
YDK2, Semarang, N. E. I. Owner: Weis.

3.210 megs. 93.40 m.
YDL5, Djokjakarta, N. E. I. Owner: Holant Muller.

3.230 megs. 92.82 m.
YDQ4, Malang, N. E. I. Owner: Radinova.

3.250 megs. 92.25 m.
YDH5, Garoet, Java, N. E. I. Bandoeng Radio
 Vereeniging.

3.265 megs. 91.83 m.
KIBZ, Waterfall, Alaska. Nakat Packing Corp.
KICE, Nakeen, Alaska. Nakat Packing Corp.
KICG, Union Bay, Alaska. Nakat Packing Corp.
KIDE, Hidden Inlet, Alaska. Nakat Packing Corp.
KIKY, Saldovia, Alaska. 40 watts. Adam W. Lipke.

3.268 megs. 91.74 m.
CGP, Prince Rupert, B. C. North-West Telephone
 Co., Cor. 2nd Ave. and Wylie St., Vancouver,
 B. C.

3.270 megs. 91.69 m.
YDA7, Pekalongan, N. E. I. 15 watts.
YDK4, Magelang, N. E. I. Owner: v. Wingen.

3.290 megs. 91.13 m.
YD03, Soerabaja, N. E. I. Owner: Radio Electric.

3.300 megs. 90.85 m.
CZV, Waterloo Mine, B. C. Waterloo Gold Mines, Ltd.
YDG7, Batavia, Java, N. E. I. Owner: Pianohandel
 Kek.

3.310 megs. 90.58 m.
YDH4, Bandoeng, Java, N. E. I. Owner: Luyks.

3.320 megs. 90.31 m.
YDM2, Tjepoe, N. E. I. Radio Vereeniging.

3.330 megs. 90.04 m.
YDV2, Bandjermasin, Borneo, N. E. I. Owner:
 Eureka.

3.340 megs. 89.77 m.
CGD, Drummondville, P. Q. Private station of
 Canadian Marconi Co., P. O. Box 1690,
 Montreal, P. Q.

CGM, Drummondville, P. Q. Private CMC station.
 Address CGD above.

3.350 megs. 89.50 m.
YDQ3, Malang, N. E. I. Owner: Lammoree.

3.370 megs. 88.97 m.
YDU2, Medan, Sumatra, N. E. I. Owner: Avrom.

3.385 megs. 88.57 m.

KBAA, Portland, Ore. Forestry.
KBCA, Santa Barbara, Calif.
KBCB, Santa Barbara, Calif.
KBCG, Yreka, Calif.
KBCH, Oakland, Calif.

3.387 megs. 88.50 m.
KGYA, Longmire, Wash. Forestry station. Address
 Mr. R. D. Waterhouse, Mount Rainier
 National Park, Longmire.

KGYP, Longmire, Wash. Address KGYA above.
KGYS, Paradise, Wash. Address KGYA above.
KGYP, Sunrise, Wash. Address KGYA above.
KGYS, White River, Wash. Address KGYA above.
KGYP, Carbon, Wash. Address KGYA above.
KGYS, Portable station of the Forestry Dept. of the
 State of Washington.

KGYP, same as KGYG above.
KGYS, same as KGYG above.
KNLS, Gobbiers Knob, Mt. Ranier Nat'l. Park, Wash.
KNLX, Shriners Peak, Mt. Ranier Nat'l. Park, Wash.

3.390 megs. 88.44 m.
YDQ2, Djember, N. E. I. Owner: v. Wingen.

3.410 megs. 87.92 m.

KNKG, Ash Mt., Sequoia Nat'l. Park, Calif.
KNLO, Death Valley National Monument, Calif.
KNLP, Wild Rose Canyon, Death Valley, Calif.
KNLQ, Trona, Death Valley, Calif.
KNLR, Lone Pine, Death Valley, Calif.
WRJ, Peo Reef Lighthouse, Mich. Dept. of Com-
 merce, Bureau of Lighthouses.

WST, Dry Tortugas Lighthouse, Fla. Address WRJ
 above.

WWAJ, Manitou Island Lighthouse, Mich. Address
 WRJ above.

WWAL, Passage Island Lighthouse, Mich. Address
 WRJ above.

WWAM, Rock of Ages Lighthouse, Mich. Address
 WRJ above.

WWAO, Huren Island Lighthouse, Mich. Address
 WRJ above.

WWE, Fourteen Foot Shoals Lighthouse, Mich.
 Address WRJ.

SHORT WAVE STATIONS BY FREQUENCIES

WWG, Cheboygan Range Lighthouse, Mich. Address WRJ above.	3.423 megs.	87.59 m.	East Radio Station." Announcements in Russian, Chinese, English. Never verifies; mailing address unknown. Daily, 0300-0900.
WWH, Stannard Rock Lighthouse, Mich. Address WRJ above.			
WWHJ, Delaware Breakwater Station, Philadelphia Pa. Address WRJ.			4.276 megs. 70.11 m.
WWM, Marquette Lighthouse, Mich. Address same as WRJ above.			WIR, Rocky Point, N. Y. 40 kW. Works Port-au-Prince, Santo Domingo. Address R. C. A., Central Frequency Bureau, 68 Broad St., N. Y. C.
WWN, Detroit River Lighthouse, Mich. Address WRJ above.			4.280 megs. 70.05 m.
WWR, Detroit, Michigan. Lighthouse station. Address WRJ.			IBEJ, S. S. Conte Rosso. Works IAC. WOO.
WWZ, Key West, Fla. Lighthouse. Address WRJ above.			IBGI, S. S. Conte Verde. Works IAC. WOO.
YDL4, Djokjakarta, N. E. I. Owner: Vadera.			IBLI, S. S. Conte di Savoia. Works IAC. WOO.
			ICEJ, S. S. Rex. Works IAC. WOO.
	3.430 megs.	87.41 m.	4.293 megs. 70.90 m.
WOZ, New York, N. Y. American Telephone & Telegraph Co., 32 Sixth Ave., NYC.			HC2JSE, Guayaquil, Ecuador. Interval sig.: one stroke on gong. Daily exc. Monday, 2015-2315.
	3.430 megs.	87.41 m.	
YD02, Soerabaja, N. E. I. Owner: Soekaradio.			4.295 megs. 69.81 m.
	3.445 megs.	87.03 m.	WTDV, St. Thomas, Virgin Islands. 250 watts. Mr. H. M. McKenzie.
KBAM, Grants Pass, Ore. Forestry.			WTDW, St. Croix, Virgin Islands. 250 watts.
KBCD, North Fork, Calif.			WTDX, St. John, Virgin Islands. 250 watts.
KBCE, North Fork, Calif.			
KBCF, North Fork, Calif.			4.320 megs. 69.49 m.
	3.450 megs.	86.90 m.	DAF, Norden, Germany. Phones ships. Hauptfunkstelle Norddeich, Norden-Land, Germany.
YDL3, Solo, N. E. I.			4.320 megs. 69.40 m.
	3.452 megs.	86.85 m.	GDB (G6RK), Rugby, England. 15 kW. Engineer-in-Chief, GPO (Radio Section), Armour House, St. Martins Le Grand, London EC1, England.
CJU, Winnipeg, Man. Canadian Airways Ltd. (Western Lines), 60 Brock St., Winnipeg.			4.348 megs. 68.92 m.
	3.470 megs.	86.40 m.	CGA9, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.
YDG2, Batavia, Java, N. E. I. Owner: Batavia Radio Vereniging.			4.355 megs. 68.84 m.
	3.490 megs.	85.91 m.	IAC, Coltano, Italy. 56 kW. Phones ships. Radiomarittimo Coltano Radio IAC, Piza, Italy.
YDH3, Bandoeng, Java, N. E. I. Owner: de Kort.			4.390 megs. 68.30 m.
	3.493 megs.	85.83 m.	FNSK, S. S. Normandie. Works Paris. French Lines. Pier 88, North River, Foot of W. 48th St., N. Y. C.
W7XK, Seattle, Wash. 80 watts. Northern Radio Co., Kulien Bldg.			4.410 megs. 67.99 m.
AMATEURS WORK BETWEEN 3.500 and 4.000 megs. (74.96 to 85.66 meters). Phones between 3.900 and 4.000 megs.			FNSK, S. S. Normandie. Works WOO. Address 4390 megs.
	3.750 megs.	79.95 m.	4.413 megs. 67.94 m.
CT1CT, Lisbon, Portugal. 500 watts. "Radio Eddy-stone". Sr. Oscar G. Lomelino, Rua Gomez Freire 79, 2-D. Lisbon. Daily, 0900-1100.			All these ships work with WOO. The German ships also work DAF; British ships with GBC:
	3.800 megs.	78.90 m.	DBBR, S. S. Berlin. North German Lloyd, Pier 42, North River. Foot of Morton St., N. Y. City.
ZP11, Asuncion, Paraguay.			DDCP, S. S. Cap Polonia.
	4.000 megs.	74.96 m.	DDFF, S. S. Reliance.
CT2AJ, Ponta Delgada, Azores. 50 watts. Mr. H. E. J. Smith, St. Michael, Ponta Delgada. Wed., Sat., 1700-1900.			DDFT, S. S. Oceana.
	4.098 megs.	73.16 m.	DHAO, S. S. Albert Ballin. Hamburg American Lines. Pier 86, North River, W. 46th St., N. Y. C.
WND, Hialeah, Fla. 400 watts. Phones ZFS Nassau.			DHDL, S. S. Cap Arcona.
	4.178 megs.	71.76 m.	DHEY, S. S. Deutschland.
WOO, Ocean Gate, N. J. 20 kW. Phones ships. American Telephone & Telegraph Co., Long Lines Dept., 32 Sixth Ave., N. Y. C.			DHJZ, S. S. Hamburg. Address DHAO above.
WOY, Lawrenceville, N. J. 20 kW. Address WOO			DHRL, S. S. New York. Address DHAO above.
	4.253 megs.	70.50 m.	DHTY, S. S. Resolute.
WKF, Lawrenceville, N. J. A. T. & T. Address WOO above.			DOAH, S. S. Bremen. North German Lloyd, Pier 4, Foot of 58th St., Brooklyn, N. Y.
WQG, Ocean Gate, N. J.			DOAI, S. S. Europa. Address DOAH above.
	4.273 megs.	70.16 m.	DOBX, S. S. Columbus. Address DOAH above.
RV15, Khabarovsk, USSR (Siberia). 20 kW. "Far			FNSM, S. S. Paris. French Lines, Pier 57, Hudson River, New York City.
			FTNQ, S. S. Ile de France. Address FNSM above.
			GBZW, S. S. Borengaria. International Marine Radio Co., Ltd., Connaught House, 63 Aldwych, London WC2, England.

SHORT WAVE STATIONS BY FREQUENCIES

GFVW, S. S. Majestic. Address GBZW above.	4.820 megs.	62.20 m.
GLSQ, S. S. Olympic. Address GBZW above.	GDW, Rugby, England. Phones N. Y. Engineer-in-Chief, GPO, (Radio Section), Armour House, St. Martins Le Grand, London EC1.	
GMBJ, S. S. Empress of Britain.	4.840 megs.	61.95 m.
GMJQ, S. S. Belgenland. Address GBZW above.	CZV, Waterloo Mines, B. C. Waterloo Gold Mines, Inc.	
4.415 megs.	67.91 m.	
GLRZ, S. S. Aquitania. Address GBZW, 4.413 megs.	4.865 megs.	61.63 m.
4.430 megs.	67.68 m.	
GBC, Rugby, England. Works ships. Address GDB, 4.320 megs.	CGT, Campbell River, B. C. North-West Telephone Co., Corner 2nd and Wylie St., Vancouver, B. C.	
GDLJ, S. S. Homeric. Address GBZW, 4.413 megs.	4.875 megs.	61.50 m.
VQJM, S. S. Monarch of Bermuda.	RKF, Moscow, USSR. 20 kW.	
VQJP, S. S. Queen of Bermuda.	4.975 megs.	60.27 m.
4.465 megs.	67.14 m.	
CFA2, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.	GBC, Rugby, England. 5 kW. Phones ships. Address GDW, 4.820 megs.	
4.470 megs.	67.07 m.	
YDB, Soerabaja, N. E. I. 1 kW.	4.983 megs.	60.11 m.
YID, Bagdad, Iraq.	WWAD, S. S. Violet. Works Lighthouses on Great Lakes.	
4.505 megs.	66.55 m.	
CGO, Ocean Falls, B. C. North-West Telephone Co., Corner 2nd Ave. and Wylie St., Vancouver, B. C.	5.015 megs.	59.78 m.
CZO, Prince George, B. C. Address CGO above.	IS3, Bolling Field, Va. United States Army airport.	
CZP, Claydon Bay, B. C. Address CGO above.	5.025 megs.	59.67 m.
4.512 megs.	66.44 m.	
ZFS, Nassau, Bahamas. Works WNC Hialeah. Office of Supt. of Telegraphs, Central Bay St., Nassau N. P., Bahamas.	ZFA, St. George (Hamilton) Bermuda. 1.5 kW. Phones WOB nights.	
4.535 megs.	66.11 m.	
WDG, Rocky Point, N. Y. 40 kW. R. C. A., Central Frequency Bureau, 66 Broad St., N. Y. C.	5.040 megs.	59.49 m.
4.540 megs.	66.04 m.	
WIR, Rocky Point, N. Y. 40 kW. Works Port-au-Prince, Santo Domingo. Address WDG, 4.535 megs.	5.140 megs.	58.33 m.
4.550 megs.	65.89 m.	
WDN (W2XBJ), Rocky Point, N. Y. Address WDG, 4.535 megs.	PMY, Bandoeng, N. E. I. 600 watts. Bandoeng Radio Vereeniging, Nillmy Bldg., Bandoeng. 0040-0240; 0640-0940.	
4.580 megs.	65.46 m.	
DJG, Zeesen, Germany. Reichs-Rundfunk-Gesellschaft, Haus des Rundfunks, Masurenallee, Berlin-Charlottenburg 9, Germany.	5.260 megs.	57.00 m.
4.600 megs.	65.18 m.	
HC2ET, Guayaquil, Ecuador. Interval sig.: 12 chimes. P. O. Box 249. Fri., Sat., 2130-2300.	YDU3, Medan, Sumatra, N. E. I. Owner: Meyer.	
4.610 megs.	65.04 m.	
KMYA, Juneau, Alaska. Forestry.	5.263 megs.	56.96 m.
4.753 megs.	63.08 m.	
WOO, Ocean Gate, N. J. Phones ships. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. C.	WQN, Rocky Point, N. Y. Address WDG, 4.535 megs.	
WOY, Lawrenceville, N. J. 20 kW. Address WOO above.	5.300 megs.	57.57 m.
4.755 megs.	63.05 m.	
CFU, Rosslund, B. C. Consolidated Mining & Smelting Co.	ZFO, Cat Cay, Bahamas. 50 watts. Address ZFS, 4.512 megs.	
4.785 megs.	62.66 m.	
CZA, Drummondville, P. Q. Phones ships. Canadian Marconi, Box 1690, Montreal.	5.375 megs.	55.78 m.
4.810 megs.	62.33 m.	
YDE2, Solo, N. E. I. 100 watts.	RSB, Stalinsk, USSR. 2 kW.	
YDL2, Solo, N. E. I. Owner: Soloscho Radio Vereeniging.	5.400 megs.	55.52 m.
	HAT, Szekesfehervar, Hungary. 6 kW. "Justice for Hungary!" Announcements French, English, Hungarian by lady. Address: Magyar Kiralyi Postakiserletli Allomas, IX Kerulet Gyali Ut 22, Budapest, Hungary.	
	HJA7, Cucuta, Colombia. Colombian Petroleum Corporation.	
	5.405 megs.	55.47 m.
	CGP, Prince Rupert, B. C. Address CGT, 4.865 megs.	
	CZQ, Anyox, B. C. Address CGT, 4.865 megs.	
	VXX, Sage Creek, B. C. Address CGT, 4.865 megs.	
	5.415 megs.	55.37 m.
	IAF, Fiumicino, Italy. 5 kW.	
	5.440 megs.	55.11 m.
	RSN, Sverdlovsk, USSR. 10 kW.	
	5.490 megs.	54.61 m.
	ROI, Sverdlovsk, USSR. 15 kW.	
	5.505 megs.	54.46 m.
	WQN, Rocky Point, N. Y. Address WDG, 4.535 megs.	

SHORT WAVE STATIONS BY FREQUENCIES

5.540 megs.	54.11 m.	5.845 megs.	51.30 m.
VXU, Regina, Sask. Dept. of Natural Resources, Govt. of the Province of Saskatchewan.		KRO, Kahuku, Oahu, T. H. (Off the air?), Kahuku, T. H. To work GMBJ.	
VXV, Hudson Bay Junction, Sask. Address VXU			
VXW, Portable. Address VXU above.		5.850 megs.	51.25 m.
		WOB, Lawrenceville, N. J. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. C.	
5.550 megs.	54.02 m.	YV5RMO, Maracaibo, Venezuela. "Ecos del Caribe." (member Gadena Indo-Americana.) One song precedes station announcement. Programs close with Blue Danube March. Address: Sr. Santiago M. Vegas, Apartado 214. Daily exc. Sun., 1130-1300; 1730-2130.	
I2RO, Rome, Italy. Ente Italiano per le Audizioni Radiofoniche, Via Montello 5, Rome.			
5.660 megs.	52.97 m.	5.865 megs.	51.12 m.
CFD, Kenora, Ont. 150 watts. Ont. Dept. of Land & Forests.		H1J, San Pedro de Macoris, D. R. Daily 1700-2030.	
CFJ, Red Lake, Ont. Address CFD above.		5.875 megs.	51.03 m.
CFU, Rossland, B. C. Consolidated Mining & Smelting Co. of Canada, Ltd.		YV8RE, Barquisimeto, Venezuela. "La Voz de Lara."	
5.710 megs.	52.51 m.		
JDZ, Darien. Works JVU nazaki.		5.890 megs.	50.90 m.
5.720 megs.	52.42 m.	HJ2ABC, Cucuta, Colombia. 250 watts. "La Voz de Cucuta." Interval sig; chimes C-D-E-F-C. Address: J. Alejandro Sanchez. Week days, 1100-1200; 1830-2100.	
YV1ORSC, San Cristobal, Venezuela. "La Voz de Tachira." Jesus M. Diaz Gonzalez.		JIC, Tainoku (Chureki) Taiwan. Works JVG, JVL, JVV.	
5.725 megs.	52.37 m.	5.900 megs.	50.82 m.
I2RO, Rome, Italy. Address EIAR, 5.550 megs.		HJ4ABE, Medellin, Colombia. 1 kW. (relays HJ4ABK) "La Voz de Antioquia." Daily, 1900-2300. Owner: Jose M. Acevedo F.	
5.730 megs.	52.32 m.	5.940 megs.	50.47 m.
JVV, Nazaki, Japan. Works JIA, JIB, JIC at Taiwan. Address: Kokusai-Denwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.		TG2X, Guatemala City, Guat.	
5.765 megs.	52.00 m.	5.970 megs.	50.22 m.
KZGF, Manila, P. I. Inter-Island phone. Philippine Long Distance Telephone Co.		HVJ, Vatican City. 10 kW. Interval sig: clock ticking for 10 minutes preceding xmission; bells of St. Peters at 3 o'clock. Announcement "Laudatur Jesus Christus". Talks as follows: Mon., Italian; Tues., English; Wed., Spanish; Thurs., French; Fri., German; Sat., Dutch; Sun., Latin. Address: Stazione Radio-Vaticano, Pontificia Accademia Della Scienze, Roma-Castina Pio IV, Citta del Vaticano. Schedule: Sundays and holidays, 0500-0530. Daily, 1400-1415.	
5.780 megs.	51.87 m.	5.980 megs.	50.14 m.
CMB, Havana, Cuba. Cuba Transatlantic Radio Corp OAX4D, Lima, Peru. "Radio DUSA." Interval sig: 2 cuckoos. "The Voice of Peru." Sign off: "A Perfect Day." All America Cables, Box 858. Wed., Sat., 2100-2330.		HIX, Santo Domingo, D. R. Mr. J. R. Saladin, Director HIX. Tues., Fri., 2000-2200.	
5.790 megs.	51.78 m.	HJ2ABD, Bucaramanga, Colombia. 100 watts. Sr. Hector McCormick.	
JVU, Nazaki, Japan. 10 kW. Works JZA-B-C. Address JVU, 5730 megs.		XECW, Mexico City, D. F. 10 watts. "del Caballero Santokan." add: Calle del Bajlo 120. Daily 2300-2400.	
5.795 megs.	51.74 m.	5.995 megs.	50.01 m.
KZGH, Hilo, P. I. (Hilo Island). Inter-Island phone. Philippine Long Distance Tele. Co.		RPT, Tashkent, USSR. 1 kW.	
5.810 megs.	51.60 m.	WVD, Seattle, Wash. 500 watts. Phones Alaska. Alaskan Telephone Co., 517 Federal Office Bldg., Seattle.	
YV7RMO, Maracaibo, Venez. "Radiodifusora Maracaibo."		5.996 megs.	50.00 m.
5.815 megs.	51.56 m.	....., "Radio-Tananarive," Tananarive, Madagascar. Theme song: Ramona. 500 watts. Administration des Postes des Telegraphes et des Telephones. Sun., 0230-0400; daily exc. Sun. and Mon., 0300-0345.	
HCK, Quito, Ecuador.		RV59, Moscow, USSR. 20 kW. Kremlin chimes at 4 p.m. EST. sign off: "Internationale. Add: Inna Marr, Central Radio Committee, Petrovka 12, Moscow. (temporarily discontinued).	
5.820 megs.	51.52 m.		
CEC, La Granja (Santiago) Chile. Compania Internacional de Radio, Casilla 16-D, Santiago de Chile.			
TIGPH, San Jose, Costa Rica. "Alma Tica." 1900-2200.			
5.825 megs.	51.47 m.		
HJA2, Bogota, Colombia.			
KZGG, Cebu, Isl. of Cebu, P. I. Inter-Island phone. Philippine Long Distance Telephone Co.			
WQN, Rocky Point, N. Y. R. C. A., Central Frequency Bureau, 66 Broad St., New York City.			
5.830 megs.	51.43 m.		
CWD, Montevideo, (Cerrito), Uruguay. 1.5 kW.			
JZC, Shinkio (Kanjoshi) Manchukuo. 20 kW. Works JVI, JVO, JVU. Address: Manchukuo Telephone & Telegraph Co., Ltd.			

SHORT WAVE STATIONS BY FREQUENCIES

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| <p>6.000 megs. 49.97 m.
 XEBT, Mexico City, D. F. 1 kW. Interval sig.: cuckoo, rooster, bugle, auto horn, fire bell. Relays XEB. Add: El Buen Tono S. A., Apartado 79-44. Daily 1000 to 0115.</p> <p>XGOG, Nanking, China (proposed). Administration of Central Broadcasting Stations, Central Executive Committee of Kuomintang, Nanking.</p> <hr/> <p>6.005 megs. 49.93 m.
 VE9DN, Drummondville, P. Q. Canadian Marconi Co., P. O. Box 1690, Montreal.
 VE9DR, Montreal, P. Q. Address VE9DN above.</p> <hr/> <p>6.006 megs. 49.92 m.
 HJ1ABJ, Santa Marta, Colombia. 50 watts. "La Voz de Santa Marta." Member Cadena Indo-Americana. Sr. Julio A. Sanchez T.</p> <hr/> <p>6.010 megs. 49.89 m.
 COCO, Havana, Cuba. Add: P. O. Box 98. Daily. 0930-1300; 1600-1900. Saturday, 2330-0030, special program for all s.w. clubs (programa dedicado a los clubs de ondas cortas).</p> <hr/> <p>6.012 megs. 49.87 m.
 HJ3ABH, Bogota, Colombia. 1.2 kW. "La Voz de la Victor." Member, Cadena Indo-Americana. Add: Manuel J. Gaitan, Almacenes Victor, Apartado 565. Sun., 1200-1400; 1600-2100. Other days, 1130-1400; 1800-2300.</p> <hr/> <p>6.020 megs. 49.80 m.
 DJC, Zeesen, Germany. 8 kW. Programs close with 2 Anthems, the Nazi Hymn and Watch on Rhine. Programs preceded by a music box tune, "Ever be True and Honest." Add: Reichs-Rundfunk-Gesellschaft, Haus des Rundfunks, Masurenallee, Berlin-Charlottenburg 9.</p> <hr/> <p>6.030 megs. 49.72 m.
 HP5B, Panama City, Panama. 100 watts. "Estacion Miramar". Address: Estacion Radiodifusora Miramar de la Radio Panama S. A., Apartado 910. Daily, 1900-2200.
 VE9CA, Calgary, Alta. 100 watts (input). "The Voice of the Prairie." Add: Voice of P., Ltd., Calgary. Thurs., 0900-0200; Sun., 1200-2400; other days, 0900-2400.</p> <hr/> <p>6.040 megs. 49.64 m.
 W1XAL, Boston, Mass. Address: Educational Director, University Club, Boston. Tues., Thurs., 1930-2130; Sun., 1700-1900.
 W4XB, Miami, Fla. (transmitter on Collins Island). 2500 watts. Relays WIOD. Isle of Dreams Broadcasting Co. Sun., 1130-1500; 1700-2400. Weekdays, 1200-1400; 1730-2400.
 YDA, Tandjongpriok, N. E. I. 10 kW. Key Station, NIROM Network. N. V. Nederlandsche Indische Radio Omroep Maatschappij, Koningsplein West 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.</p> <hr/> <p>6.042 megs. 49.62 m.
 HJ1ABG, Barranquilla, Colombia. 150 watts. "Emisora Atlantico." Member, Cadena Indo-Americana. Interval sig: 4-note chime. Address: Sr. Andres Jimeno, Apartado 445.</p> <hr/> <p>6.050 megs. 49.56 m.
 GSA, Daventry, England. 20 kW. "A for Aerial." Interval sigs: Bow Bells and Big Ben. Sign off: God Save the King. British Broadcasting Corp., Broadcasting House, London W. 1, England.</p> | <p>6.060 megs. 49.48 m.
 OXY, Skamlebaek, Denmark (Copenhagen). 500 watts. Chimes at 6 p.m. EST. Add: Harold J. Rud, Press Secretary, Statsradionien, Heibergsgade 7, Copenhagen. Daily 1300-1830.</p> <p>VQ7LO, Nairobi, Kenya Colony. Cable & Wireless Ltd. Box 777. Tues., 0300-0400; Mon., Wed., Fri., 0545-0615; Thurs., 0800-0900; Sat., 1100-1530; daily exc. Sat., 1100-1400.</p> <p>W3XAU, Philadelphia (Newton Square) Pa. Relays WCAU, CBS. WCAU Building, 1622 Chestnut St. 2100-2300.</p> <p>W8XAL, Cincinnati (Mason) Ohio. 10 kW. Relays NBC-WLW. Crosley Radio Corp., 1329 Arlington St. Daily exc. Sun., 0630-2000; Sun., 0800-2000; daily exc. Sat., 2300-0200; Sat., 2300-0300.</p> <p>ZHI, Singapore, Straits Settlements. 180 watts. Technical Director, Radio Service Co. of Malaya, Broadcast House 2 and 4, Orchard Road. Sat., 2300-0130; Mon., Wed., Thurs., 0600-0830.</p> <hr/> <p>6.070 megs. 49.39 m.
 IRA, Rome, Italy. Address EIAR, 5,550 megs.
 VE9CS, Vancouver, B. C. 2-10 watts. Radio Service Engineers Ltd., 734 Davie St. Daily 2000-2200.</p> <hr/> <p>6.072 megs. 49.37 m.
 OER2, Vienna, Austria. 1.5 kW. Oesterr. Radioverkehrs A. G., Wien I, Johannesgasse 4b. Sat., 0900-1800; Sun., silent; other days, 0900-1700.</p> <p>CQN, Macau. 500 watts. Ann: Portuguese and English. Mon., Fri., 0300-0500.</p> <hr/> <p>6.080 megs. 49.31 m.
 CP5, La Paz, Bolivia. "Radio Illimani." Compania Radio Boliviana, Casilla 637. Daily, 2000-2100.
 DJM, Zeesen, Germany. Address, DJC, 6,020 megs.
 HJN, Bogota, Colombia. Sr. Luis Ramirez Arana. Jefe del Servicio de Inalambricos, Ministerio de Correos y Telégrafos.
 VE9EH, Charlottetown, P. E. I. 250 watts. Relays CFCY. Island Radio Broadcasting Co., Ltd., 143 Great George St.
 W9XAA, Chicago, Ill. 500 watts. Relays NBC-WCFI. Daily exc. Sun., 0930-1800; Sun., 1130-2100. Mr. Maynard Marquardt, Chicago Federation of Labor, 666 Lake Shore Drive.
 ZHJ, Penang, Straits Settlements. 49 watts. Hon. Secy., Penang Wireless Society, 40 Perak Road. Daily exc. Sun., 0640-0840.</p> <hr/> <p>6.085 megs. 49.27 m.
 I2RO, Rome, Italy. Address EIAR, 5,550 megs.</p> <hr/> <p>6.090 megs. 49.23 m.
 VE9BJ, St. John, N. B. 50 watts. C. A. Munro, Ltd., Canterbury Street.
 CRCX, Bowmanville, Ont. 200 watts. Relays Canadian Radio Commission-CRCT. Address: R. R. No. 4. Daily 1830-2330.</p> <hr/> <p>6.100 megs. 49.15 m.
 HJ4ABL, Manizales, Colombia. 150 watts. "L for Lady." "Ecos del Occidente." Chimes at midnight. Apartado 50. Sat., 2300-0100.
 W3XAL, Bound Brook, N. J. 20 kW. National Broadcasting Co., 30 Rockefeller Plaza, N. Y. C. Relays NBC-WJZ. Mon., Wed., Sat., 1700-1800; Sun., 0000-0100.
 W9XF, Chicago (Downers Grove), Ill. 5 kW. Relays NBC-WENR, N. B. C., Merchandise Mart, Chicago.</p> <hr/> <p>6.110 megs. 49.07 m.
 GSL, Daventry, England. "L for Liberty." Int. sigs:</p> |
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SHORT WAVE STATIONS BY FREQUENCIES

Bow Bells and Big Ben. Sign off: God Save the King. Address GSA, 6,050 megs. Daily, 2200-2300.		CSL, Lisbon, Portugal.
HJ4ABE, Manizales, Colombia. 300 watts. "Radio Manizales." Sr. Ernesto Villegas.		YV3RC, Caracas, Venezuela. "Radiodifusora Venezuela YV3RC en Caracas." Bajos Pasaje Ramella. 1700-2200.
VE9CG, Calgary, Alta. Calgary Herald, Ltd.		6.170 megs. 48.60 m.
VE9HX, Halifax, N. S. The Maritime Broadcasting Co., Box 998.		HJ2ABA, Tunja, Colombia. 50 watts. "Ecos de Boyaca." Member: Cadena Indo-Americana. Sr. Pompello Sanchez.
6.112 megs. 49.05 m.		6.200 megs. 48.36 m.
VUC, Calcutta, India. Indian State Broadcasting Service, 1 Garstin Place.		HJ3ABF, Bogota, Colombia. 50 watts. "La Voz de Bogota." Interval sig.: 6 chimes. Daily 1900-2300.
YV2RC, Caracas, Venezuela. 1 kW. "Broadcasting Caracas." "La Habla a la Nacion." Apartado 2009. Sun., 0930-2230; weekdays, 1030-1330; 1600-2200.		6.230 megs. 48.13 m.
6.115 megs. 49.03 m.		HJ4ABC, Pereira, Colombia. 50 watts. "La Voz de Pereira." 0930-1100; 1900-2000.
HJ1ABE, Cartagena, Colombia. 180 watts. "La Voz de los Laboratorios Fuentes." Address: Laboratorios Fuentes L., Apartado 31.		OAX4G, Lima, Peru. Relays OAX4C. R. Grellaud y Cie. Daily, 1900-2100.
6.120 megs. 48.99 m.		6.240 megs. 48.05 m.
W2XE, New York, N. Y. (Wayne, N. J.) 10 kW. Relays CBS-WABC, Columbia Broadcasting System, 485 Madison Ave. at 52nd St., N. Y. C. Daily, 1800-2300.		H11A, Santiago de los Caballeros, D. R. "La Voz del Yaque." Daily 1930-2130; Sun., 0100.
YDA5, Bandoeng, Java, N. E. I. 1.5 kW. N. V. Nederlandsch Indische Radio Omroep Maatschappij, Tegallagah 0.23, Bandoeng. 0530-1100; 1745-1845; 2230-0330.		6.300 megs. 47.59 m.
6.122 megs. 48.97 m.		HJ1ABH, Cienaga, Colombia. 48 watts. Sergio Martinez Aparicio, Jr. Tues., Fri., 1945-2200.
ZTJ, Johannesburg, Union of South Africa. 5 kW. African Broadcasting Co., Joubert St. P. O. Box 4559.		6.315 megs. 47.48 m.
6.125 megs. 48.95 m.		HIZ, Santo Domingo, D. R. 100 watts. Operator. Frank Hatton, Calle Duarte No. 68. Sat. 2300-0100; daily exc. Sun., 1700-1800.
ZGE, Kuala Lumpur, Federated Malay States. 180 watts. Hon. Secy., the Malayan Amateur Radio Society, Mercantile Bank Bldg., K. L. Sun., Tues., Fri., 0640-0840.		6.330 megs. 47.36 m.
6.130 megs. 48.91 m.		JZG, Nazaki, Japan. 10 kW. Works ships. Kokusaidenwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.
COCD, Vedado, Havana, Cuba. 350 watts. "La Voz del Aire." Int. sig.: 4 chimes. Relays CMCD. Address: Hotel Palace, Calle 25 y G. Vedado, Havana. Sun., 1700-2300. Weekdays, 1100-2400.		6.375 megs. 47.03 m.
LCL, Jeley, Norway. Director General, Administration des Telegraphes du Royaume de Norvege, Oslo, Norway.		YV4RC, Caracas, Venezuela. "La Florida." "Estacion S.A.R." Member: Cadena Indo-Americana. Address: Estacion SAR, Este 10, Bis No. 71, Caracas. Daily, 1630-2230.
6.132 megs. 48.89 m.		6.385 megs. 46.94 m.
CT1GO, Parede, Portugal. Sun., 1130-1300; Sun., Tues., Wed., Thurs., Fri., 1920-2030.		BC1, Chanute Field, Rantoul, Ill. Army airport.
6.135 megs. 48.87 m.		IS3, Bolling Field, Va. (Washington, D. C.) Army airport.
RKK, Moscow, USSR. 20 kW.		W09, Mitchell Field, Mineola, Long Island. Army airport.
6.140 megs. 48.83 m.		WTR, Albrook Field, Canal Zone. Army airport.
W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Relays NBC-KDKA, Westinghouse Electric & Manufacturing Co., Grant Bldg., Pittsburgh. Daily, 2100-0100.		6.400 megs. 46.85 m.
6.145 megs. 48.79 m.		YV9RC, Caracas, Venez. "Ondas Populares."
....., Villejust, France. 120 kW. (Under constr.)		6.410 megs. 46.77 m.
6.150 megs. 48.75 m.		TIPG (T12PG), San Jose, Costa Rica. 1 kW. "La Voz de la Victor." Perry Girton, Apartado 224. Sun., 0600-0700; 1100-2230. Weekdays, 1100-1300; 1730-2230.
CJRO, Winnipeg, Man. (Middlechurch). Relays CRC programs. James Richardson & Sons, Ltd., Royal Alexandria Hotel, Winnipeg. Daily, 2000-2400.		6.425 megs. 46.66 m.
CO9CG, Santiago de Cuba. Relays CMKE. "Ask for Bacardi." Laboratorio Radio-electrico, Sres. Grau y Caminero, Apartado 137. Daily, 0930-1000; 1245-1330; 1530-1615.		CZG, Prince Rupert, B. C. B. C. Provincial Police.
		VE9AS, Fredericton, N. B. Address, C/o Electrical Engineering Dept., University of New Brunswick.
		VK1, Selfridge Field, Mt. Clemens, Mich. Army airport.
		W3XL, Bound Brook, N. J. 18 kW. NBC Control station and cue station for nearly all special "stunt" broadcasts. Address NBC, 30 Rockefeller Plaza, N. Y. City.
		W9XF, Chicago, (Downers Grove) Ill. Address W9XF 6.100 megs.
		W9XQ, same as W9XF above.
		W9XBS, same as W9XF above.

SHORT WAVE STATIONS BY FREQUENCIES

6.440 megs.	46.56 m.	voice is used. Reports from readers of actual VOICE reception are requested.
RTA, Novosibirsk, USSR. 15 kW.		
6.445 megs.	46.52 m.	6.662 megs. 45.00 m.
PD1, Maxwell Field, Montgomery, Ala. Army airport.		WXH, Ketchikan, Alaska. Phones Seattle.
PE2, Wright Field, Dayton, Ohio. Army airport.		6.666 megs. 44.98 m.
6.447 megs.	46.50 m.	ZP10, Asuncion, Paraguay.
HJ1ABB, Barranquilla, Colombia. 300 watts. "La Voz de Barranquilla." Relays HJ1ABA. Address: Elias J. Pellet B., Apartado 715. Daily, 1700-2200.		6.672 megs. 44.94 m.
6.450 megs.	46.48 m.	YVQ, Maracay, (Santa Rita), Venezuela. Address: Estados Unidos de Venez., Servicio Radio-telegrafico.
YN1GG, Managua, Nicaragua. "La Voz de los Lagos." Raul Gutierrez U. & Cie., Ltd. Daily, 1245-1430; 1900-2145.		6.675 megs. 44.91 m.
6.490 megs.	46.20 m.	DGK, Nauen, Germany. Address: Reichspostzentralamt, Telegraphentechnisches Reichsamt, Schoneberger Strasse 11-15, Berlin-Tempelhof.
HJ5ABD, Cali, Colombia. "La Voz del Valle." Apartado 270. Thurs., Sat., Sun., 1900-2100.		6.690 megs. 44.82 m.
6.500 megs.	46.13 m.	CGA6, Drummondville, P. Q. Address VE9DN, 6,005 megs.
HIL, Santo Domingo, D. R. Mr. J. C. Pellicer, Box 623.		6.710 megs. 44.68 m.
HI4D, Santo Domingo, D. R. "La Voz de Quisqueya." 1300-1340; 1640-1940; daily exc. Sun.		TIEP, San Jose, Costa Rica. "La Voz del Tropico." Sr. Eduardo Pinto Hernandez, Apartado 257. Member: Cadena Indo-Americana. Daily, 1900-2200.
6.520 megs.	45.98 m.	6.718 megs. 44.62 m.
YV6RV, Valencia, Carabobo, Venezuela. "La Voz de Carabobo." Sres. Hermann y Williams Degwitz.		KBK, Manila, P. I. 50 kW. Radio Corp. of the Philippines, Plaza Moraga, Manila.
6.550 megs.	45.76 m.	WDB, Rocky Point, N. Y. Works Havana. Radio Corp. of A., Central Frequency Bureau, 66 Broad St., N. Y. City.
TIRCC, San Jose, Costa Rica. 500 watts. "Radioemisora Catolica Costaricense". Box 1064.		6.720 megs. 44.62 m.
6.590 megs.	45.50 m.	CFU, Rossland, B. C. Consolidated Mining & Smelting Co.
ZEA, Salisbury, Southern Rhodesia. 500 watts. Works ZEB.		6.725 megs. 44.57 m.
ZEB, Bulawayo, Southern Rhodesia. 500 watts. Works ZEA.		WQO, Rocky Point, N. Y. Address WDB, 6.718 megs.
6.610 megs.	45.36 m.	6.735 megs. 44.53 m.
CWE, Cerrito (Montevideo) Uruguay. 1.5 kW.		KEQ, Kahuku, Oahu, Hawaii. Works California.
6.615 megs.	45.32 m.	6.750 megs. 44.42 m.
KIKL, Los Angeles, Calif.		JVT, Nazaki, Japan. 20 kW. Works Dixon and broadcasts. Address JZG, 6.330 megs.
WMEP, Suffield, Ohio. 400 watts. Airways.		ZBW, Hong Kong. 250 watts. Address: Betty Billings, Secy., Hong Kong Broadcasting Committee, P. O. Box 200.
WMEQ, Wheeling, Ill. Airways.		6.755 megs. 44.38 m.
WMEU, St. Petersburg, Fla. 400 watts. Airways.		WOA, Lawrenceville, N. J. A. T. & T. Long Lines Dept., 32 Sixth Ave., N. Y. City.
WMEV, Opa Locka, Fla. (Goodyear Zeppelin Base). 400 watts.		6.760 megs. 44.35 m.
6.618 megs.	45.31 m.	CJA6, Drummondville, P. Q. Address VE9DN, 6.005 megs.
WVD, Seattle, Wash. Phones Alaska. Alaskan Telephone Co., 517 Federal Office Bldg.		6.790 megs. 44.16 m.
6.620 megs.	45.29 m.	GDB, Rugby, England. Address GDW, 4.820 megs.
PRADO, Riobamba, Ecuador. "Estacion El Prado." Member: Cadena Indo-Americana. Apartado 98. Thurs., 2100-2330 and other nights irregularly.		6.800 megs. 44.09 m.
6.645 megs.	45.12 m.	HIH, San Pedro de Macoris, D. R. "La Voz del Higuamo." 75 watts. Sr. Domingo Dominguez. Daily 1600-2030. Sunday, 0300-0400.
BF4, Kelly Field, San Antonio, Tex. Army airport.		6.860 megs. 43.71 m.
FG7, Langley Field, Va. Army airport.		KEL, Bolinas, Calif. RCA Communications, Inc. Pacific Division, 28 Geary St., San Francisco, Calif.
IS3, Bolling Field, Va. (Washington, D. C.) Army airport.		6.870 megs. 43.64 m.
6.650 megs.	45.09 m.	RKF, Moscow, USSR. 20 kW.
HC2RL, Guayaquil, Ecuador. "Quinta Piedad." Address: Dr. Roberto Levi, Apartado 759. Tues., 2114-2314; Sun. 1745-1945.		
IAC, Coltao, Italy. 14 kW. Works ships. Address IAC, 4.355 megs.		
This frequency has been assigned to certain SHIPS but it is not known whether or not		

SHORT WAVE STATIONS BY FREQUENCIES

6.880 megs. CGA7, Drummondville, P. Q. Address VE9DN, 6.005 megs. RKF, Moscow, USSR. 20 kW.	43.58 m.	7.390 megs. HJ3ABD, Bogota, Colombia. 50 watts. "Colombia Broadcasting." Apartado 509. Daily, 1930- 2300.	49.57 m.
6.900 megs. RKF, Moscow, USSR. 20 kW.	43.45 m.	JVR, Nazaki, Japan. Works Hongkong. Address JZG, 6.330 megs. ZLR, Wellington, N. Z. 1 kW. Works VLJ. Address: Supt. of Post and Telegraphs, G. P. O.	
6.905 megs. GDS, Rugby, England. 15 kW. Phones N. Y. nights Address GDW, 4,820 megs.	43.42 m.	7.400 megs. WEM, Rocky Point, N. Y. Works London, Honolulu. Address WDB, 6,718 megs.	40.51 m.
6.928 megs. WEZ, Rocky Point, N. Y. Address WDB, 6,718 megs.	43.27 m.	7.465 megs. HJP, Bogota, Colombia. Works Hialeah nights.	40.16 m.
6.935 megs. WEB, Rocky Point, N. Y. Works Paris. Address WDB, 6,718 megs.	43.23 m.	7.470 megs. JVQ, Nazaki, Japan. 10 kW. Works PLE, PLV. Address JZG, 6,330 megs.	40.14 m.
6.950 megs. WKP, Rocky Point, N. Y. Address WDB, 6,718 megs.	43.13 m.	7.510 megs. JVP, Nazaki, Japan. 20 kW. Works Europe. Address JZG, 6,330 megs.	39.92 m.
6.990 megs. JVS, Nazaki, Japan. Works Shanghai. Address JZG, 6,330 megs.	42.89 m.	7.520 megs. KDK, Kahuku, Oahu, Hawaii. Works Doxon. (?) KKH, Kahuku, Oahu, Hawaii. Works Dixon. RKI, Moscow, USSR. 20 kW., Kahuku, Oahu, Hawaii. Works GMBJ.	39.87 m.
7.000 megs. 41.07 meters to 42.83 meters. Amateur Band. Foreign amateurs use phone in this band. USA. code only.	7.300 m.	7.550 megs. CFQ, Edmonton, Alta. The E. Journal. Ltd. CGE, Calgary, Alta. The Calgary Herald, Southam Bldg. CKS, Portable. Address CGE above.	39.71 m.
7.005 megs. HB9H, Berne, Switzerland. Swiss Shortwave Associa- tion. 30 Neuengasse, Berne. First Monday each month, 1500-1615.	42.80 m.	7.565 megs. KWY (W6XN), Dixon, Calif. Address: Transpacific Communication Co., Ltd., 140 New Mont- gomery St., San Francisco.	39.63 m.
7.080 megs. VP3MR, Georgetown, Br. Guiana. "The Voice of Guiana." Sun., 0745-1015; Mon., 1545-1645; Thurs., 1700-1845; Mon., Wed., Sat., 1845- 1945.	42.35 m.	7.575 megs. XGO, Shanghai, China. Chinese Govt. Radio Ad- ministration, Sassoon House, Jinkee Road.	39.58 m.
7.090 megs. HKE, Bogota, Colombia. 138 watts. Observatorio Nacional de San Bartolome.	42.29 m.	7.610 megs. KWX (W6XN), Dixon, Calif. Address KWY, 7,565 mgs.	39.40 m.
7.175 megs. CR6AA, Lobito, Portuguese West Africa. "Radio Eddystone." The Manica Trading Co., Ltd., Caixa Postal 118, Lobito.	41.78 m.	7.626 megs. RIM, Tashkent, USSR. Works RKI. 20 kW.	39.32 m.
7.220 megs. HAT2, Szekesferhervar, Hungary. 6 kW. "Justice for Hungary!" Announcements Hungarian, French, English by lady. Address: Magyar Kiralyi Postakiserleti Allomas, IX Kerulet Gyalii Ut 22, Budapest.	41.53 m.	7.680 megs. YBZ, Menado, Celebes, N. E. I. Works PNI, Macassar. Address: Mr. H. Van der Veen, Engineer-in- charge, Post-Telegraafen Telefoon dienst. Bedrijf der Radiostations op Java, Bandoeng.	39.04 m.
7.225 megs. RPK, Moscow, USSR. 20 kW.	41.50 m.	7.685 megs. HJA3, Barranquilla, Colombia. TIR, Cartago, Costa Rica. Address: Compania Radio- grafica Internacional de C. R., San Jose.	39.01 m.
7.260 megs. RFF, Kharkov, USSR. 1 kW.	41.30 m.	7.715 megs. KEE, Bolinas, Calif. Address KEL, 6,860 megs.	38.86 m.
7.275 megs. RTZ, Irkutsk, USSR. 15 kW.	41.23 m.	7.740 megs. CEC, La Granja (Santiago) Chile. Address CEC, 5,820 megs.	38.74 m.
7.280 megs. HJ1ABD, Cartagena, Colombia. 50 watts. "Ondas de la Heroica." Jzd. Villarreal, Director, Apartado 252. Daily, 1945-2115.	41.18 m.	7.797 megs. HBP, Prangins (Geneva) Switzerland. 20 kW. "Radio Nations." Works USA and broadcasts. Programs consist of talks in English, French, Spanish. Address: M. G. Gallarati, Informa- tion Section, League of Nations. Geneva. Sat., 1730-1815.	38.47 m.
7.370 megs. WJN, Rocky Point, N. Y. Address WDB, 6,718 megs.	40.68 m.		
7.380 megs. XECR, Mexico City, D. F. Announcements: Spanish, English. Address: Departamento de Publicidad de la Secretario de Relaciones Exteriores. Sunday, 1800-1900.	40.63 m.		

SHORT WAVE STATIONS BY FREQUENCIES

7.820 megs. OCO, Lima (Valverde) Peru.	38.34 m.	8.464 megs. DAF, Norden, Germany. Hauptfunkstelle Norddeich, Norden-Land.	35.42 m. Works ships. Address
7.830 megs. HC2JSB, Guayaquil, Ecuador. Interval sig.: one gong.	38.29 m.	8.500 megs. JZF, Nazaki, Japan. 10 kW. JZG, 6.330 megs.	35.27 m. Works ships. Address
7.880 megs. JYR, Kemikawa-Cho, Chiba-Ken, Japan. Experimental.	38.05 m.	8.560 megs. WOO, Ocean Gate, N. J. 20 kW. American Telephone & Telegraph Co., Long Lines Dept., 32 Sixth Ave., N. Y. C.	35.03 m. Works ships. Address
7.920 megs. GCP, Rugby, England. Address GDW, 4.820 megs.	37.86 m.	8.565 megs. HAT3, Szekesfehervar, Hungary. 20 kW. "Justice for Hungary!" Announce in Hungarian, French, English by lady. Address HAT2, 7.220 megs.	
7.960 megs. VLZ (VK2ME), Pennant Hills (Sydney), N. S. W., Australia. 3.5 kW. Address: Amalgamated Wireless (A/sia) Ltd., 47 York St., Sydney.	37.67 m.	8.575 megs. YCP, Balikpapan, N. E. I. 3 kW. 7.680 megs.	34.96 m. Address YBZ,
7.968 megs. HSP, Bangkok, Siam. 20 kW. Address Post and Telegraph Dept.	37.63 m.	8.620 megs. WVD, Seattle, Wash. Works Alaska at 2400. Alaskan Telephone Co., 517 Federal Office Bldg., Seattle.	
7.980 megs. VLZ (VK2ME), Pennant Hills (Sydney) Australia. Address VLZ, 7.960 megs.	37.57 m.	8.625 megs. HC2CW, Guayaquil, Ecuador. "Ondas del Pacifico."	34.78 m.
8.020 megs. HSJ, Bangkok, Siam. 20 kW. Address HSP, 7.968 megs.	37.38 m.	8.665 megs. CO9JQ, Camaguey, Cuba. 150 watts. Rafael Grimany. Calle General Gomez No. 4.	34.76 m.
8.035 megs. CNR, Rabat, Morocco. 12 kW. Phones Paris. Direction de l'Office des Postes, des Telegraphes et des Telephones du Maroc, Rabat.	37.31 m.	8.680 megs. GBC, Rugby, England. Works ships. Address GDW, 4.820 megs.	34.60 m.
8.050 megs. WXA, Juneau, Alaska. Works WVD at 2400.	37.24 m.	8.690 megs. VWZ, Kirkee, Poona, India. 10 kW. Works also on freqs. 8.691, 8.693, 8.700 megs. Phones London.	34.50 m.
8.070 megs. IRF, Rome, Italy. Works N. Y. Societe Italo Radio, Servizi Radioelectrici, Via Calabria No. 46-48, Roma 125, Italy.	37.15 m.	8.708 megs. VWZ, Kirkee, Poona, India. 10 kW. Phones London.	34.43 m.
8.095 megs. VLK, Pennant Hills (Sydney) Australia. Address VLZ, 7.960 megs.	37.04 m.	8.710 megs. CEC, La Granja, (Santiago) Chile. 800 watts. Address CEC, 5.820 megs.	34.42 m.
8.120 megs. KTP, Manila, P. I. Phones Dixon near 1000. Address KBK, 6.718 megs.	36.92 m.	8.770 megs. RSZ, Irkutsk, USSR. 15 kW. Tests with RNE.	34.19 m.
8.180 megs. PSK, Rio de Janeiro (Marapicu) Brazil. Phones N. Y. and Buenos Aires. Companhia Radio Internacional do Brasil, Caixa Postal 709, Rio de Janeiro.	36.65 m.	8.775 megs. PNI, Macassar, Celebes, N. E. I. 3 kW. Phones Bandoeng. Address YBZ, 7.680 megs.	34.16 m.
8.214 megs. HCJB, Quito, Ecuador. 150 watts. "La Voz de los Andes." Interval sig.: 4 strokes on gong. Address Clarence W. Jones, Casilla 691, Quito. Sun., 1615-2245; Mon., silent; other days, 1915-2315.	36.50 m.	8.790 megs. HJA3, Barranquilla, Colombia.	34.11 m.
8.220 megs. ZSV, Walvis Bay, Union of South Africa. 1 kW.	36.47 m.	8.810 megs. FNSK, S. S. Normandie. Works Paris nights. French Lines, Pier 88, North River, Foot of W. 48th St., N. Y. C.	34.03 m.
8.225 megs. RRD, Moscow, USSR. 20 kW.	36.45 m.	8.830 megs. SHIPS. For address of these ships refer to 4.413 megs., 4.415 megs. and 4.430 megs. All these ships work with WOO. The German ships work also DAF; British ships with GBC and CZA; Furness-Bermuda ships with ZFA-B.	33.95 m.
8.396 megs. HSP, Bangkok, Siam. 20 kW. Address HSP, 7.968 megs.	35.71 m.	8.830 megs. DBBR, S. S. Berlin. DDCP, S. S. Cap Polonia. DDFF, S. S. Reliance. DDFT, S. S. Oceana. DHAO, S. S. Albert Ballin. DHDL, S. S. Cap Arcona. DHEY, S. S. Deutschland.	
8.455 megs. CWF, Montevideo (Cerrito) Uruguay. 1.5 kW.	35.46 m.		

SHORT WAVE STATIONS BY FREQUENCIES

DHJZ, S. S. Hamburg.	9.415 megs.	31.84 m.
DHRL, S. S. New York.	PLV, Bandoeng, Java, N. E. I. 80 kW. Works Dixon and JVB, JVE, JVQ. Address Mr. H. Van der Veer, Post-Telegraafendienst, Bedrijf der Radiostations op Java, Bandoeng.	
DHTY, S. S. Resolute.	9.428 megs.	31.80 m.
DOAH, S. S. Bremen.	COCH, Vedado, Havana, Cuba. Slogan: "Cuba, the Evergreen Land." Address: No. 2, B. Street. Daily 1000-1200; 1600-1800; 2100-2200; Relays CMCY Sunday, 1600-1100.	
DOAI, S. S. Europa.	9.448 megs.	31.74 m.
DOBX, S. S. Columbus.	WES, Rocky Point, N. Y. Address WAD, 8.930 megs.	
FNSK, S. S. Normandie. Works WOO nights. Address 8.810 megs.	9.450 megs.	31.73 m.
FNSM, S. S. Paris.	TG1X, Guatemala City, Guat. 200 watts. Ministerio de Fomento.	
FTNQ, S. S. Ile de France.	9.460 megs.	31.69 m.
GBZW, S. S. Berengaria.	WKJ, New Brunswick, N. J. Address WNA, 9.170 megs.	
GDLJ, S. S. Homeric.	9.470 megs.	31.66 m.
GFVW, S. S. Majestic.	WET, Rocky Point, N. Y. Works Buenos Aires, Caracas. Address WAD, 8.930 megs.	
GLRZ, S. S. Aquitania.	9.490 megs.	31.59 m.
GLSQ, S. S. Olympic.	KZGH, Iloilo, P. I. Inter-Island phone. Philippine Long Distance Telephone Co.	
GMBJ, S. S. Empress of Britain.	OXY, Copenhagen, Denmark. Not used at present.	
GMJQ, S. S. Belgenland.	SRI, Poznan, Poland. 1 kW. Tues., 1300-1500; Wed., 0800-0900. Radio Pozanski, Plac Wolnosce 11, Rozglosnia, Poznan. (This station is probably off the air).	
VQJM, S. S. Monarch of Bermuda.	9.500 megs.	31.56 m.
VQJP, S. S. Queen of Bermuda.	XGOX, Nanking, China. See 6.000 megs.	
ZLS, Wellington, N. Z. Address Supt. of Post and Telegraphs, GPO.	9.503 megs.	31.55 m.
	VK3ME, Melbourne, Victoria, Australia (Braybank). 5 kW. Amalgamated Wireless (A/sia) Ltd., Box No. 1272L, Elizabeth St. P. O., Melbourne. Wed., Thurs., Fri., Sat., 0500-0700.	
8.900 megs.	33.69 m.	
8.930 megs.	33.57 m.	
WAD, Rocky Point, N. Y. R. C. A., Central Frequency Bureau, 66 Broad St., N. Y. City.	9.505 megs.	31.54 m.
WEC, Rocky Point, N. Y. Address WAD above.	PRF5, Rio de Janeiro, Brazil. "Radio Journal." Program consists of talks in Portuguese, Spanish, English and sometimes French. German. Address: Director of the Imprensa Nacional. Daily, 1730-1815.	
8.940 megs.	33.54 m.	
KZGG, Cebu, Island of Cebu, P. I. Inter-Island phone. Philippine Long Distance Telephone Co.	9.510 megs.	31.53 m.
WKL, Rocky Point, N. Y. Address WAD, 8.930 megs.	GSB, Daventry, England. 20 kW. "B for Broadcasting." Interval sig.: Bow Bells and Big Ben. Sign off: God Save the King. Address GSA, 6,050 megs. Daily, 0115-0315; 1215-1500; 1515-1645.	
8.950 megs.	33.50 m.	
WEL, Rocky Point, N. Y. Address WAD, 8.930 megs.	9.520 megs.	31.49 m.
8.975 megs.	33.41 m.	
VVWY, Kirkee, Poona, India. Phones London.	XEDQ, Guadalajara, Jal. Relays XED. Address Cia. Radiofonografica, Apartado 197. Daily, 0800-0900; 1200-2400.	
9.010 megs.	33.28 m.	
KEJ, Bolinas, Calif. 20-40 kW. Address KEL, 6.860 megs.	9.530 megs.	31.46 m.
9.020 megs.	33.24 m.	
GCS, Rugby, England. 15 kW. Phones N. Y. night.	W2XAF, Schenectady, N. Y. 40 kW. Relays NBC-WGY. The General Electric Co., Schenectady. "The Voice of Electricity". Programs commence with electrical discharge of 10,000,000 Volts (man-made lightning). Sun., 1615-2400; Thurs., 1700-2300; other days, 1730-2300.	
9.050 megs.	33.13 m.	
TFK, Reykjavik, Iceland. 8.5 kW.	9.540 megs.	31.43 m.
9.120 megs.	32.88 m.	
CP6, La Paz, Bolivia. "Illimani Radio." Compania Radio Boliviana, Casilla 637.	DJN, Zeesen, Germany. 8 kW. Programs close with Nazi Hymn and Watch on the Rhine. Programs preceded by a music box tune. "Ever be True and Honest." Address DJC, 6.020 megs.	
9.125 megs.	32.86 m.	
HAT4, Szekesfehervar, Hungary. 20 kW. "Justice for Hungary!" Announce in Hungarian, French, English by lady. Address HAT2, 7.220 megs.		
9.168 megs.	32.70 m.	
YVR, Santa Rita, Maracay, Venezuela. Address YVQ, 6.672 megs.		
9.170 megs.	32.70 m.	
KZGF, Manila, P. I. Inter-Island phone.		
WNA, Lawrenceville, N. J. Works London. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. City.		
9.280 megs.	32.31 m.	
GCB, Rugby, England. 15 kW. Phones Canada. Address Engineer-in-Chief, G.P.O. (Radio Section), Armour House, St. Martins le Grand, London EC1.		
9.332 megs.	32.13 m.	
CGA4, Drummondville, P. Q. Phones London. Address VESDN, 6.005 megs.		

SHORT WAVE STATIONS BY FREQUENCIES

LKJ1, Jeloy, Norway. 500 watts. Address LCL, 6.130 megas. Daily, 0500-0800.	9.630 megas.	31.13 m.
9.555 megas. 31.38 m.	I2RO, Rome, Italy. Address Ente Italiano Audizioni Radiofoniche, Via Montello 5, Rome. American Hour broadcast Mon., Wed., Fri., 1800-1930.	
VE9DN, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.	9.710 megas.	30.88 m.
9.560 megas. 31.36 m.	GCA, Rugby, England. 15 kW. Phones N. Y. and Buenos Aires. Address GCB, 9,280 megas.	
DJA, Zeesen, Germany. For details see DJN, 9.540 megas.	9.750 megas.	30.75 m.
9.565 megas. 31.35 m.	RKF, Moscow, USSR. 20 kW.	
VUB, Bombay, India. Indian State Broadcasting Service, Irwin House, Sprotts Road, Ballard Estate, Bombay. Sun., 0700-0900 approximately.	VLJ, Sydney (Pennant Hills), Australia. 3.5 kW. Phones Bandoeng. Address VK2ME, 9,585 megas.	
9.570 megas. 31.33 m.	WOF, Lawrenceville, N. J. Address WNA, 9,170 megas.	
W1XK, Millis (Boston), Mass. 10 kW. Relays WBZ-WBZA, NBC programs. "These are the New England Westinghouse stations WBZ, WBZA, W1XK." Address: Westinghouse Radio Stations of New England, Hotel Bradford, Boston. Sunday, 0800-0100; other days, 0700-0100.	9.790 megas.	30.63 m.
W8XK, Pittsburgh (Saxenburg), Pa. This frequency loaned to W1XK.	GCW, Rugby, England. 15 kW. Phones N. Y. evenings. Address GCB, 9,280 megas.	
9.575 megas. 31.31 m.	9.840 megas.	30.47 m.
VUC, Calcutta, India. Refer to VUC, 6.112 megas.	JYS, Kemikawa-Cho, Chiba-Ken, Japan. Experimental. 10 kW.	
9.580 megas. 31.30 m.	9.862 megas.	30.40 m.
GSC, Dayentry, England. 20 kW. "C for Corporation." For other details see GSB, 9.510 megas. Daily, 1800-2000; 2209-2300.	EAQ, Madrid (Aranjuez), Spain. 20 kW. "La Voz de Espana." Transradio Espanola, S. A., Departamento de Radiodifusion Ibero-Americana, Apartado 951. Programs close with National Hymn, "Himno de Riego." Daily, 1730-1900; Sat., 1200-1400.	
VE9DR, Montreal, P. Q. Address VE9DN, 9.555 megas.	9.870 megas.	30.38 m.
VK3LR, Melbourne, Australia. Research Section, P. M. G. Dept., 61 Little Collins St., C1, Melbourne. Daily, 0400-0800.	WON, Lawrenceville, N. J. 20 kW. Works London. Add.: WNA, 9,170.	
XGBD, Shanghai, China. 18.5 kW. (Existence doubtful).	9.890 megas.	30.32 m.
9.585 megas. 31.28 m.	LSN2, Buenos Aires (Hurlingham), Argentina. Address LQA, 9,600 megas.	
VK2ME, Sydney (Pennant Hills), Australia. 12 kW. "The Voice of Australia." Laughing notes of the koekaburra, the Laughing Jackass, various times during program. Sign off: God Save the King. Address: Amalgamated Wireless (A/sia) Ltd., 47 York St., Sydney. Sundays, 0100-0300; 0500-1100.	9.895 megas.	30.30 m.
....., Villejust, France. 120 kW. (Under construction).	LSN, Buenos Aires (Hurlingham), Argentina. Works N. Y. Address LQA, 9,600 megas.	
9.590 megas. 31.26 m.	9.920 megas.	30.22 m.
HP5J, Panama City, Panama. 1 kW. "La Voz de Panama." Manuel Diaz Doce. Apartado 867. Daily, 1145-1300; 1930-2200.	JDY, Darien. Works JVU, Nazaki.	
W3XAU, Philadelphia (Newton Square), Pa. Relays CBS-WCAU. 750 watts. Address W3XAU, 6,060 megas. Daily, 1200-2000.	9.930 megas.	30.19 m.
9.595 megas. 31.25 m.	HJY, Bogota, Colombia. Phones CEC, OCI evenings.	
HBL, Prangins (Geneva), Switzerland. 18 kW. "Radio Nations." Works USA and broadcasts. Programs consist of talks in English, French, Spanish. Address HBP, 7,797 megas. Sat., 1730-1815.	9.950 megas.	30.13 m.
9.600 megas. 31.23 m.	GCU, Rugby, England. 15 kW. Works N. Y. nights. Address GCB, 9,280 megas.	
CT1AA, Lisbon, Portugal. 2 kW. "Radio Colonial." Interval sig.: 3 cuckoos. Address: Senhor Abilio Nunes dos Santos, Jr., Av. Antonio d'Aguair 144. Tues., Thurs., Sat., 1636-1900.	9.990 megas.	30.01 m.
LQA, Buenos Aires, Argentina. Compania Internacional de Radio, Defensa 143, B. A.	KAZ, Manila, P. I. 40 kW. Works Dixon. Radio Corp. of the Philippines, Plaza Moraga.	
9.609 megas. 31.20 m.	LSL, Buenos Aires, Argentina. Address LQA, 9,600 megas.	
DGU, Nauen, Germany. Phones Egypt irreg. Address DGK, 6.675 megas.	10.000 megas.	29.98 m.
	WWV, Beltsville, Md. 20 kW. Standard Frequency Station. Dept. of Commerce, National Bureau of Standards, Washington, D. C. Tues., Fri., 1315-1415.	
	10.040 megas.	29.86 m.
	HII, Santo Domingo, D. R.	
	10.055 megas.	29.82 m.
	SUV, Cairo (Abu Zabal), Egypt. 10 kW. Marconi Radio Telegraph Co., of Egypt, S. A., Box 795, Cairo.	
	ZFB, Hamilton (St. George) Bermuda. 1.5 kW. Phones N. Y. days.	

SHORT WAVE STATIONS BY FREQUENCIES

10.070 megs. EHY, Madrid (Pozuele del Rey), Spain. Phones YVR afternoons. Compania Telefonica Nacional de Espana, S. A., Margall 2, Madrid.	29.77 m.	10.465 megs. WKC, Rocky Point, N. Y. 100 kw. Address WAD, 8.930 megs.	28.64 m.
10.080 megs. RIR, Tiflis, USSR. Works RIO, RNE mornings.	29.74 m.	10.520 megs. VLK, Pennant Hills (Sydney), Australia. 16 kW. Address VK2ME, 9.585 megs.	28.50 m.
10.135 megs. OPM, Leopoldville, Belgian Congo. 12 kW. Works ORK. Address Leopoldville Radio Station.	29.58 m.	10.530 megs. GBX, Rugby, England. 8 kW. Address GCB, 9.280 megs.	28.47 m.
10.160 megs. RIO, Baku, USSR. Works RIR, RNE mornings.	29.51 m.	JIB, Taihoku (Chureki) Taiwan. Works JVG, JVL, JVV.	
10.200 megs. PSH, Rio de Janeiro (Marapicu), Brazil. 12 kW. Works Buenos Aires. Cia. Radiotelegraphica Brasileira, Caixa Postal 500.	29.34 m.	10.550 megs. WOK, Lawrenceville, N. J. 20 kW. Address WNA, 9.170 megs.	28.42 m.
10.250 megs. LSK3, Buenos Aires (Hurlingham), Argentina. 5 kW.	29.25 m.	10.600 megs. WQW, Rocky Point, N. Y. Works Berlin. Address WAD, 8.930 megs.	28.28 m.
10.260 megs. PMN, Bandoeng, N. E. I. 3 kW. Works Sydney. Address PLV, 9.415.	29.22 m.	10.610 megs. WEA, Rocky Point, N. Y. 40 kW. Address WAD, 8.930 megs.	28.25 m.
10.285 megs. DIQ, Koenigswusterhausen, Germany. Address DGK, 6.675 megs.	29.15 m.	10.660 megs. JVN, Nazaki, Ibaraki-Ken, Japan. 20 kW. Works Europe and broadcasts to America. Sign off: Japanese National Anthem. Address, see JZG, 6.330 megs. Mon., Thurs., 1600-1700; daily, 0000-0100.	28.13 m.
10.290 megs. HPC, Panama City, Panama.	29.14 m.	10.670 megs. CEC, La Granja, (Santiago) Chile. 4 kW. Compania Internacional de Radio S. A. (Chile), Casilla 16-D, Santiago. Broadcasting irregularly.	28.10 m.
10.330 megs. ORK, Brussels (Ruysselde), Belgium. 11 kW. Works OPM irregularly; broadcasts daily. Ann.: Radio I.N.R. Sign off: La Brabaconne. Address: Regie des Telephones et des Telephones, Direction des Radiocommunications, Bruxelles.	29.02 m.	10.675 megs. WNB, Lawrenceville, N. J. 500 watts. Phones Bermuda. Address, WNA, 9.170 megs.	28.09 m.
10.335 megs. ZFD, St. George, Bermuda. 1.5 kW. Address reports on special transmissions to Town Clerk, St. George.	29.01 m.	10.740 megs. JVM, Nazaki, Ibaraki-Ken, Japan. 20 kW. Other details identical JVN, 10.660.	27.92 m.
10.350 megs. LSX, Buenos Aires (Monte Grande), Argentina. 20 kW. Transradio Internacional, Compania Radiotelegrafica Argentina S. A. San Martin 329.	28.97 m.	10.770 megs. GBP, Rugby, England. 15 kW. Address GCB, 9.280 megs.	27.84 m.
10.370 megs. WCG (W2XBJ), Tuckerton, N. J.	28.91 m.	10.840 megs. KWV (W6XN), Dixon, Calif. 20 kW. Address: Transpacific Communication Co., Ltd., 140 New Montgomery St., San Francisco, Calif.	27.66 m.
10.375 megs. JVO, Nazaki, Japan. 10 kW. Works JZA, JZB, JZC, Harbin. Address JZG, 6.330 megs.	28.89 m.	10.960 megs. JZB, Shinkio (Kanjoshi) Manchukuo. 20 kW. Works JVI, JVO, JVV. Add: Manchukuo Telephone & Telegraph Co., Ltd., Shinkio.	27.36 m.
10.400 megs. KEZ, Bolinas, Calif. 40 kW. RCA Communications, Inc., Pacific Division, 28 Geary St., San Francisco, Calif.	28.83 m.	10.990 megs. ZLT, Wellington, N. Z. Works VLZ. Supt. Posts and Telegraphs.	27.28 m.
10.410 megs. KES, Bolinas, Calif. 40 kW. Address KEZ, 10.400 megs.	28.80 m.	11.000 megs. PLP, Bandoeng, Java, N. E. I. 3 kW.	27.28 m.
PDK, Kootwijk, Netherlands. 60 kW. Address Radiolaboratory, Neth. State Telegraphs, Parkstraat 29, S'Gravenhage.		11.140 megs. XGB, Shanghai China. 15 kW. (Existence doubtful)	26.91 m.
10.420 megs. XGW, Shanghai, China. 20 kW. Address XGO, 7.575 megs.	28.77 m.	11.370 megs. CWG, Carrito (Montevideo), Uruguay. 1.5 kW.	26.38 m.
10.430 megs. YBG, Medan, Sumatra, N. E. I. 3 kW. Works Bandoeng. Director of Govt. Radio Service, Telegraaf en Telefoonendienst, Serdangweg 2, Medan. Daily, 0430-0530; 2030-2300.	28.75 m.	11.495 megs. VIZ3, Rockbank (Melbourne), Australia. Tests with Canada. Address VK3ME, 9.503 megs.	26.08 m.
		11.660 megs. JVL, Nazaki, Japan. 10 kW. Works JIA, JIB, JIC Taiwan. Address JZG, 6.330 megs.	25.71 m.

SHORT WAVE STATIONS BY FREQUENCIES

11.670 megs.	25.69 m.	kW. Address, see 11.720 megs. Daily, 1115-1415; 1500-1800.
PPQ, Rio de Janeiro (Sepetiba), Brazil. 5 kW. Address, see PSH, 10.220 megs.		
11.680 megs.	25.67 m.	11.940 megs. 25.11 m.
KIO, Kahuku, Oahu, Hawaii. Works Bolinas., Kahuku, Oahu, T. H. Works GMBJ.		FTA, Ste. Assise, France. Works Saigon. Societe Francaise Radio-Electrique, 79 Blvd. Haussmann, Paris VIII.
11.720 megs.	25.58 m.	11.950 megs. 25.08 m.
CJRX, Winnipeg, Man. (Middlechurch). James Richardson & Sons, Royal Alexandra Hotel. Daily, 2000-2400.		KKQ, Bolinas, Calif. Address KEZ, 10.400 megs.
HJ4ABA, Medellin, Colombia. "Ecos de la Montana.", "Radio Coloniale," Pontoise, France. 15 kW. Address: Ministere des Postes, Telegraphes et Telephones, Direction de la Radiodiffusion, 98 bis, Blvd. Haussmann. Paris. Daily, 1900-2200; 2300-0100.		11.990 megs. 25.00 m.
11.725 megs.	25.57 m.	FZS2, Saigon, French Indo-China. 15 kW. Phones Paris. Cie. Generale de Telegraphie Sans Fil, Boite Postale 238.
PHI, Hilversum, Netherlands. 23.6 kW. (Winter frequency). Philips' Ormroep Holland-Indie, Emmasingel 29, Eindhoven. Announces in Dutch, Malay, German, French, English, Spanish, Portuguese. Close: Dutch National Anthem.		12.000 megs. 24.39 m.
11.750 megs.	25.52 m.	RNE, Moscow, U. S. S. R. 20 kW. Kremlin Chimes at 1600 EST. Programs in English, Russian, German, French, Czech, Hungarian, Dutch, Spanish, Swedish. Address: Mme. Inna Marr, Central Radio Committee, Petrovka 12, Moscow.
GSD, Daventry, England. 20 kW. "D for Daventry." Interval sig.: Bow Bells and Big Ben. Sign off: God Save the King. Address, see GSA, 6.050 megs. Daily, 0115-0315; 1215-1600; 1800-2000; 2200-2300.		12.020 megs. 24.94 m.
11.770 megs.	25.47 m.	JVK, Nazaki, Japan. Works Shanghai. Address JZG, 6.330 megs.
DJD, Zeeseon, Germany. 8 kW. Programs close with Nazi Hymn and Watch on the Rhine. Programs preceded by a music box tune, "Ever be True and Honest." Address DJC, 6.020 megs.		12.030 megs. 24.92 m.
11.790 megs.	25.43 m.	HBO, Prangins, (Geneva) Switzerland. 20 kW. "Radio Nations." Address: see HBP, 7.797 megs.
DJO, Zeeseon, Germany. Address DJC, 6.020 megs. W1XAL, Boston, Mass. 5 kW.		12.035 megs. 24.91 m.
11.800 megs.	25.37 m.	DJK, Nauen, Germany. 7.2 kW. Address DGK, 6.675 megs.
COSWR, Sancti-Spiritus, Cuba. 150 watts. V. E. Weiss y O. Ramirez, Apartado 85.		12.050 megs. 24.88 m.
11.810 megs.	25.39 m.	PDV, Kootwijk, Netherlands. 60 kW. Address: PDK, 10.410 megs.
VE9GW, Toronto (Bowmanville), Ont.		12.150 megs. 24.68 m.
11.811 megs.	25.38 m.	GBS, Rugby, England. 15 kW. Phones N. Y. Afternoons. Address: GCB, 9.280 megs.
IRE, Rome, Italy. Address I2RO, 9.630 megs. Daily, 0815-0900; 0915-1015; 1200-1300; 1345-1430.		12.215 megs. 24.55 m.
11.830 megs.	25.34 m.	TYA, Paris, France. Phones Algeria. Address: FTA, 11.940 megs.
W2XE, New York, N. Y. (Wayne, N. J.). Relays CBS, WABC. 10 kW. Address W2XE, 6.120 megs. Daily, 1500-1700.		12.225 megs. 24.53 m.
W9XAA, Chicago, Ill.		TFK, Reykjavik, Iceland. 8.5 kW.
11.845 megs.	25.31 m.	12.240 megs. 24.49 m.
....., Villejust, France. 120 kW. Under construction.		GBU, Rugby, England. Phones N. Y. Address: GCB, 9.280 megs.
11.860 megs.	25.28 m.	12.250 megs. 24.48 m.
GSE, Daventry, England. 20 kW. "E for Empire." Interval sig.: Westminster Chimes and Big Ben. Sign off: God Save the King. Address: see GSA, 6.050 megs. Daily, 1100-1200.		TYB, Pontoise, France. Works JVH and Ships.
11.870 megs.	25.25 m.	12.260 megs. 24.46 m.
W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Relays NBC-KDKA. Westinghouse Electric & Manufacturing Co., Grant Bldg., Pittsburgh, Pa. Daily, 1700-2100.		FTN, Ste. Assise, France. Address: FTA, 11.940 megs.
11.880 megs.	25.24 m.	12.270 megs. 24.52 m.
....., "Radio Coloniale," Pontoise, France. 15		JVJ, Nazaki, Japan. Works Hongkong. Address JZG, 6.330 megs.
		RKK, Moscow, USSR. 20 kW.
		12.325 megs. 24.33 m.
		DAF, Norden, Germany. 5 kW. Phones ships, mornings. For address see DAF, 8.464 megs.
		12.500 megs. 23.99 m.
		RKF, Moscow, USSR. 20 kW.
		ZSV, Walvis Bay, Union of South Africa. 1 kW.
		12.745 megs. 23.60 m.
		DAF, Norden, Germany. 5 kW. Works ships. Address DAF, 8.464 megs.
		12.780 megs. 23.46 m.
		GBC, Rugby, England. 5 kW. Works ships. Address GCB, 9.280 megs.

SHORT WAVE STATIONS BY FREQUENCIES

<p>12.795 megs. 23.45 m. IAC, Coltano, Italy. 14 kW. Works ships. Address IAC, 4.355 megs.</p>	<p>13.337 megs. 22.48 m. YVQ, Maracay (Santa Rita), Venezuela. Phones Hialeah days.</p>
<p>12.830 megs. 23.36 m. CNR, Rabat, Morocco. Works Paris. Address, CNR, 8.035 megs. HJA3, Barranquilla, Colombia.</p>	<p>13.390 megs. 22.39 m. WMA, Lawrenceville, N. J. Works London. Address WNA, 9.170 megs.</p>
<p>12.840 megs. 23.35 m. WOO, Ocean Gate, N. J. 20 kW. Works ships. Address WNA, 9.170 megs. WOY, Lawrenceville, N. J. 20 kW. Address WNA, 9.170 megs.</p>	<p>13.395 megs. 22.39 m. FNSM, S. S. Paris. FTNQ, S. S. Ile de France.</p>
<p>12.930 megs. 23.18 m. WAW, Hialeah, Fla.</p>	<p>13.415 megs. 22.35 m. GCJ, Rugby, England. Works JVH, Nazaki. Address GCB 9.280 megs., 0300-0800. TIEP, San Jose, Costa Rica. "La Voz del Tropico". Sr. Eduardo Pinto Hernandez, Apartado 257. Sunday at 1300.</p>
<p>12.955 megs. 23.14 m. GMBJ, S. S. Empress of Britain. Works WOO, IAC, DAF, GBC, CZA, etc.</p>	<p>13.435 megs. 22.31 m. WEL, Rocky Point, N. Y. Phones London. Address WAD 8.930 megs.</p>
<p>13.020 megs. 23.03 m. JZE, Nazaki, Japan. 10 kW. Works ships. Address, JZG, 6.330 megs.</p>	<p>13.500 megs. 22.21 m. GBB, Rugby, England. Phones Canada and Egypt days. Address: GCB, 9.280 megs.</p>
<p>13.040 megs. 22.99 m. SHIPS. For address of these ships refer to 4413, 4415 and 4430 megs. All these ships work with WOO, and DAF.</p>	<p>13.560 megs. 22.11 m. JVI, Nazaki, Japan. 10 kW. Works JZA, JZB, JZC Harbin. Address: Kokusai-Denwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.</p>
<p>DBBR, S. S. Berlin. DDCP, S. S. Cap Polonia. DDFF, S. S. Relianca. DDFT, S. S. Oceana. DHAO, Albert Ballin. DHDL, S. S. Cap Arcona. DHEY, S. S. Deutschland. DHJZ, S. S. Hamburg. DHRL, S. S. New York. DHTY, S. S. Resolute. DOAH, S. S. Bremen. DOAI, S. S. Europa. DOBX, S. S. Columbus.</p>	<p>13.600 megs. 22.05 m. JYK, Kemikawa-Cho, Chiba-Ken, Japan. Experimental.</p>
<p>13.045 megs. 22.98 m. VPD, Suva, Fiji Islands. "Radio Suva." Amalgamated Wireless, (A/sia) Ltd., Suva, Fiji. Dally exc. Sun., 0030-0130.</p>	<p>13.690 megs. 21.90 m. KKZ, Bolinas, Calif. Works Honolulu, Hsinking, New York. Address: KEZ, 10.400 megs.</p>
<p>13.050 megs. 22.97 m. These ships work with IAC and WOO. All owned by the Italian Line, 1 State St., N. Y. C.</p>	<p>13.745 megs. 21.81 m. CGA2, Drummondville, P. Q. Canadian Marconi Co. Box 1690, Montreal, P. Q.</p>
<p>IBEJ, S. S. Conte Rosso. IBGI, S. S. Conte Verde. IBLI, S. S. Conte di Savoia. ICEJ, S. S. Rex.</p>	<p>13.780 megs. 21.75 m. KKW, Bolinas, Calif. Address: KEZ, 10.400 megs.</p>
<p>13.140 megs. 22.82 m. CWH, Montevideo (Cerrito), Uruguay. 1.5 kW.</p>	<p>13.810 megs. 21.71 m. HRM, Tela, Honduras. Tela Railroad Co. SUZ, Cario (Abu Zabal), Egypt. 10 kW. Uses any freq. between 13.810 and 13.830 megs. Address SUV, 10.055 megs.</p>
<p>13.190 megs. 22.73 m. FNSK, S. S. Normandie. Works Paris afternoons. Address FNSK, 8.810 megs.</p>	<p>13.840 megs. 21.66 m. WPE, Rocky Point, N. Y. Radio Corp. of America. Central Freq. Bureau, 66 Broad St., New York City.</p>
<p>13.200 megs. 22.71 m. CFU, Rossland, B. C. Consolidated Mining & Smelting Co.</p>	<p>13.855 megs. 21.63 m. WQU, Rocky Point, N. Y. Address: WPE, 13.840 megs.</p>
<p>13.210 megs. 22.70 m. FNSK, S. S. Normandie. Works WOO, afternoons. Address FNSK, 8.810 megs.</p>	<p>13.870 megs. 21.61 m. WIY, Rocky Point, N. Y. Address: WPE, 13.840 megs.</p>
<p>13.320 megs. 22.51 m. GBZW, S. S. Berengaria. GDLJ, S. S. Homeric. GFVV, S. S. Majestic. GLRZ, S. S. Aquitania. GLSQ, S. S. Olympic. GMJQ, S. S. Belgenland.</p>	<p>13.900 megs. 21.57 m. WQP (W2XBJ), Rocky Point, N. Y. Address: WPE, 13.840 megs.</p>
	<p>13.915 megs. 21.54 m. WQS, Rocky Point, N. Y. Address: WPE, 13.840 megs.</p>
	<p>13.980 megs. 21.45 m. LCO, Jeloy, Norway. 1 kW. Address LCL, 6.130 megs.</p>
	<p>13.984 megs. 21.44 m. GBA, Rugby, England. Address GCB, 9.280 megs.</p>
	<p>14.000 to 14.400 megs. 20.82 to 21.42 meters. AMATEURS. Phones work between 14.150 and 14.250 megs.</p>

SHORT WAVE STATIONS BY FREQUENCIES

14.000 mags.	21.42 m.	14.935 mags.	20.07 m.
HJ5ABE, Cali, Colombia. Apartado 50. Daily 1900-2200.		PSA, Rio de Janeiro, Brazil. Phones Buenos Aires and Madrid. Address: PSF, 14,690 mags.	
14.236 mags.	21.06 m.	14.980 mags.	20.01 m.
HB9B, Berne, Switzerland. Swiss Shortwave Association, 30 Netuengasse, Berne. First Monday every month 1510-1615; 1800-1900.		KAY, Manila, P. I. 40 kW. Radio Corp. of the Philippines, Plaza Moraga, Manila.	
14.290 mags.	20.99 m.	15.040 mags.	19.93 m.
HB9AT, Berne, Switzerland. Address HB9B above. First Monday each month, 1800-1900.		RKI, Moscow, USSR. 20 kW. Works RIM Tashkent. WQG, Rocky Point, N. Y. 40 kW. Address WPE, 13,840 mags.	
14.400 mags.	20.82 m.	15.055 mags.	19.91 m.
HB9J, Berne, Switzerland. Address HB9B above. First Monday each month, 1510-1615.		WNC, Hialeah, Fla. 400 watts. Works HJB, HJP, HPF, HRM, TGF, TIN, TIU, YNA, YVQ and ZFS daily; other S. Americans irregularly.	
14.440 mags.	20.76 m.	15.070 mags.	19.89 m.
GBW, Rugby, England. 15 kW. Address GCB, 9,280 mags.		PSD, Rio de Janeiro (Marapicu), Brazil. 12 kW. Works Madrid and Buenos Aires mornings. Address: PSF, 14,690 mags.	
14.470 mags.	20.72 m.	15.090 mags.	19.87 m.
WMF, Lawrenceville, N. J. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. City.		RKI, Moscow, USSR. 20 kW. Works Rocky Point.	
14.480 mags.	20.70 m.	15.104 mags.	19.85 m.
LSN, Buenos Aires (Hurlingham), Argentina. Phones N. Y. Address: Compania Internacional de Radio, Defensa 143.		RAU, Tashkent, USSR. Phones Moscow mornings.	
YNA, Managua, Nicaragua. Phones Hialeah days.		15.120 mags.	19.83 m.
14.500 mags.	20.68 m.	HVJ, Vatican City. 10 kW. Interval sig. clock ticking for 10 minutes preceding transmission; bells of St. Peter's at 3 o'clock. Announcement: Laudatur Jesus Christus. Talks as follows: Mon., Italian; Tues., English; Wed., Spanish; Thurs., French; Fri., German; Sat., Dutch; Sun., Latin. Address: Stazione Radio-Vaticana, Pontificia Accademia Della Scienze, Roma-Castina Pio IV, Citta del Vaticano. Schedule: 1000-1045.	
HRM, Tela, Honduras. Works Hialeah days.		15.140 mags.	19.80 m.
14.535 mags.	20.63 m.	GSF, Daventry, England. 15 kW. "F for Fortune." Interval sig.: Westminster chimes and Big Ben. Sign off: God Save the King. Address. British Broadcasting Corp., Broadcasting House, London W.1. Daily, 0900-1200; daily exc. Sun., 0600-0845; Sun., 0630-0845.	
HBJ, Prangins (Geneva), Switzerland. 20 kW. "Radio Nations." Address: M. Gallarati, Information Section, League of Nations, Geneva.		15.200 mags.	19.73 m.
14.545 mags.	20.69 m.	DJB, Zeesen, Germany. 8 kW. Programs close with Nazi Hymn and Watch on the Rhine. Programs preceded by a music box tune, "Ever be True and Honest." Address DJC 6,020 mags.	
HPF, Panama City, Panama. Phones Hialeah days. TGF, Guatemala City. Guat. Phones Hialeah days. TIN, Cartago, Costa Rica. Phones Hialeah days. Compania Radiografica Internacional de C. R., San Jose.		15.210 mags.	19.71 m.
TIU, Cartago, Costa Rica. See TIN above.		W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Relays NBC-KDKA. Westinghouse Electric & Manufacturing Co., Grant Bldg. Daily 0900-1900.	
14.590 mags.	20.55 m.	15.220 mags.	19.70 m.
WMN, Lawrenceville, N. J. 20 kW. Address WMF, 14,470 mags.		PCJ, Hilversum, Netherlands. Philips' Omroep Holland-Indie, Emmasingel 29, Eindhoven. Announcements in Dutch, English, French, German, Malay, Portuguese, Spanish. Sign off: Dutch National Anthem. Irregular in operation.	
14.640 mags.	20.42 m.	15.250 mags.	19.66 m.
JVH, Nazaki, Japan. 20 kW. Address JVI, 13,560 mags. Works GCJ, 0200-0600.		..... "Radio Coloniale," Pontoise, France. 12 kW. Address, see 11,720 mags. Daily, 0700-1100. W1XAL, Boston, Mass. 5 kW.	
14.690 mags.	20.41 m.	15.260 mags.	19.65 m.
PSF, Rio de Janeiro, Brazil. Phones Madrid and Buenos Aires. Companhia Radio Internacional do Brasil, Caixa Postal 709.		GSJ, Daventry, England. "I for Island." For other details see GSF, 15,140 mags.	
14.800 mags.	20.26 m.		
WQV, Rocky Point, N. Y. 40 kW. Address WPE, 13,840 mags.			
14.815 mags.	20.23 m.		
WQL, Rocky Point, N. Y. 40 kW. Address WPE, 13,840 mags.			
14.830 mags.	20.21 m.		
WKU, Rocky Point, N. Y. 40 kW. Address WPE, 13,840 mags.			
14.910 mags.	20.11 m.		
JVG, Nazaki, Japan. 10 kW. Works JJA, JIB, JIC Taiwan. Address: JVI, 13,560 mags.			
14.930 mags.	20.08 m.		
HJB, Bogota, Colombia. Phones Hialeah, days.			

SHORT WAVE STATIONS BY FREQUENCIES

15.270 mags.	19.64 m.	15.760 mags.	19.02 m.
W2XE, New York, N. Y. (Wayne, N. J.). 10 kW. Relays WABC-CBS. For address see 6.120 mags. Daily 1100-1300.		JYT, Kemikawa-Cho, Chiba-Ken, Japan. 5 kW.	
15.280 mags.	19.62 m.	15.860 mags.	18.90 m.
DJQ, Zeesen, Germany.		CEC, La Granja (Santiago), Chile. 800 watts. Phones Peru, afternoons. Address CEC, 10.670 mags.	
15.295 mags.	19.60 m.	JVD, Nazaki, Japan. Works Shanghai. Address JVI, 13.560 mags.	
. Villejust, France. 120 kW. Under construction.		15.863 mags.	18.90 m.
15.300 mags.	19.60 m.	FTK, Ste. Assise, France. Phones Saigon. Address FTA, 11.940 mags.	
CP7, La Paz, Bolivia. Compania Radio Boliviana, Casilla 637.		15.950 mags.	18.80 m.
OXY, Copenhagen, Denmark.		PLG, Bandoeng, Java. N. E. I.	
15.330 mags.	19.56 m.	15.970 mags.	18.77 m.
W2XAD, Schenectady, N. Y. 20 kW. The General Electric Co. Relays NBC-WGY. "The Voice of Electricity." Program commences with electrical discharge of 10,000,000 volts of man-made lightning. Sunday, 1030-1600; other days, 1400-1500.		WKO, Rocky Point, N. Y. Address WPE, 13.840 mags.	
15.340 mags.	19.55 m.	16.015 mags.	18.72 m.
DJR, Zeesen, Germany.		WQR, Rocky Point, N. Y. Address WPE, 13.840 mags.	
15.350 mags.	19.53 m.	16.030 mags.	18.71 m.
CT1AA, Lisbon, Portugal. 2 kW. Int. Sig.: 3 cuckoos. Address CT1AA, 9.600 mags.		KKP, Kahuku, Oahu, Hawaii. Kahuku, Oahu, T. H. Phones GMBJ.	
15.355 mags.	19.52 m.	16.050 mags.	18.68 m.
KWU (W6XN), Dixon, Calif. 20 kW. Address KWV, 10.840 mags.		JVC, Nazaki, Japan. Works Hongkong. Address JVI, 13.560 mags.	
15.370 mags.	19.51 m.	16.150 mags.	18.56 m.
HAS3, Szekesferhervar, Hungary. 20 kW. "Justice for Hungary!" Announce in Hungarian, French, English by lady. Address, see HAT2, 7.220 mags.		GBX, Rugby, England. Phones Sydney. Address Engineer-in-chief, G.P.O. (Radio Section), Armour House, St. Martins le Grand, London EC1.	
15.415 mags.	19.45 m.	16.200 mags.	18.51 m.
KWO (W6XN), Dixon, Calif. 20 kW. Address KWV 10.840 mags.		FZR, Saigon, French Indo-China. Phones Paris. Address FZS2, 11.990 mags.	
15.440 mags.	19.42 m.	16.240 mags.	18.49 m.
PRADO, Riobamba, Ecuador. "Estacion El Prado." Apartado 98. This freq. used in summer only, Sundays, 1700-1800.		KTO, Manila, P. I. Phones Dixon. Radio Corp. of the Philippines, Plaza Moraga, Manila.	
15.445 mags.	19.41 m.	16.270 mags.	18.48 m.
KWK, Rocky Point, N. Y. Address WPE, 13.840.		WLK, Lawrenceville, N. J. Works London. Address WMF, 14.470 mags.	
15.454 mags.	19.40 m.	16.380 mags.	18.30 m.
. . . , Pontoise, France. (Proposed).		XGN, Shanghai, China. Address XGO, 7.575 mags.	
15.475 mags.	19.37 m.	16.460 mags.	18.22 m.
KKL, Bolinas, Calif. Address KEZ, 10.400 mags.		DHEY, S. S. Deutschland. Works WOO, DAF. Address North German Lloyd, Pier 4, Foot of 58th St., Brooklyn, N. Y.	
15.510 mags.	19.33 m.	16.600 mags.	18.06 m.
JDX, Darien. Works JVI Nazaki.		DOAI, S. S. Europa. Phones WOO, DAF. Address DHEY above.	
15.620 mags.	19.19 m.	16.765 mags.	17.88 m.
JVF, Nazaki, Japan. 20 kW. Works Dixon, nights. Address JVI, 13.560 mags.		DHTY, S. S. Resolute. Works WOO, DAF.	
15.660 mags.	19.15 m.	16.910 mags.	17.73 m.
JVE, Nazaki, Japan. 10 kW. Works Bandoeng nights. Address JVI, 13.560 mags.		JZD, Nazaki, Japan. 20 kW. Works ships. Address JVI, 13.560 mags.	
15.680 mags.	19.12 m.	17.080 mags.	17.55 m.
JZA, Shinkio (Kanjoshi) Manchukuo. 20 kW. Works JVI, JVO, JVU. Add.: Manchukuo Telephone & Telegraph Co., Shinkio.		GBC, Rugby, England. 5 kW. Works ships. Address GBX, 16.150 mags.	
15.750 mags.	19.04 m.	17.120 mags.	17.51 m.
JIA, Taihoku (Chureki) Taiwan. Works JVG, JVL, JVV.		WOO, Ocean Gate, N. J. 20 kW. Works ships. Address WMF, 14.470 mags.	
		WOY, Lawrenceville, N. J. 20 kW. Address WMF. 14.470 mags.	
		17.260 mags.	17.37 m.
		DAF, Norden, Germany, 5 kW. Works ships. Address DAF, 8.464 mags.	

SHORT WAVE STATIONS BY FREQUENCIES

17.310 megs.	17.32 m.	18.020 megs.	16.64 m.
CZA, Drummondville, P. Q. Works ships. Address CGA2, 13.745 megs.		KQJ, Bolinas, Calif. 40 kW. Address KEZ, 10.400 megs.	
W3XL, Bound Brook, N. J. 20 kW. National Broadcasting Co., 30 Rockefeller Plaza, N. Y. C.			
17.480 megs.	17.15 m.	18.115 megs.	16.55 m.
VWY, Kirkee, Poona, India. Phones London.		LSY3, Buenos Aires (Monte Grande), Argentina. Transradio Internacional, San Martin 329, B. A.	
17.520 megs.	17.11 m.	18.135 megs.	16.53 m.
DFB, Nauen, Germany. Works S. America mornings. Address DGK, 6.675 megs.		PMC, Bandoeng, Java, N. E. I. 40 kW. Works Neth., 0330-0900. Address: Mr. H. Van der Veen, Engineer in Charge, Post-Telegraaf-en Telefoondienst, Bedrijf der Radiostations op Java, Bandoeng.	
17.710 megs.	16.93 m.	18.180 megs.	16.49 m.
CJA3, Drummondville, P. Q. Works London. Address CGA2, 13.745 megs.		CGA, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.	
17.740 megs.	16.90 m.	18.190 megs.	16.48 m.
HSP, Bangkok, Siam. 20 kW. Post & Telegraph Dept.		JVB, Nazaki, Japan. 10 kW. Works PLE, PLV. Address: Kokusai-Donwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.	
17.760 megs.	16.88 m.	18.200 megs.	16.47 m.
DJE, Zeesen, Germany. 5 kW.		GAW, Rugby, England. 15 kW. Works N. Y. Address: GBX, 16.150 megs.	
17.765 megs.	16.88 m.	18.296 megs.	16.39 m.
....., Villejust, France. 120 kW. Under construction.		YVR, Maracay (Santa Rita), Venezuela. Works Berlin. Estados Unidos de Venezuela, Servicio Radiotelegrafico.	
17.770 megs.	16.87 m.	18.304 megs.	16.38 m.
IAC, Coltano, Italy. Works ships. Radiomarittimo Coltano Radio IAC, Piza, Italy.		GAS, Rugby, England. Works N. Y. mornings. Address: GBX, 16.150 megs.	
17.775 megs.	16.87 m.	18.330 megs.	16.36 m.
PHI, Hilversum, Netherlands. 23.6 kW. For details see PCJ, 15.220 megs. Mon., Thurs., Fri., 0730-0930; Sat., Sun., 0730-1030.		FTE, Ste. Assise, France. Societe Francaise Radio-Electrique, 79 Blvd. Haussmann, Paris VIII.	
17.780 megs.	16.86 m.	18.342 megs.	16.35 m.
W3XAL, Bound Brook, N. J. 14 kW. Relays WJZ-NBC programs. Address W3XL, 17.310 megs. Daily exc. Sun., 0900-1000; Tues., Thurs., Fri., 1500-1600.		FZS, Saigon, French Indo-China. Works Paris. Address: FZS2, 11.990 megs.	
W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Not used at present.		18.350 megs.	16.34 m.
W9XAA, Chicago, Ill. Not used at pres.		WLA, Lawrenceville, N. J. A. T. & T. Long Lines Dept., 32 Sixth Ave., N. Y. City.	
17.790 megs.	16.85 m.	18.400 megs.	16.29 m.
GSG, Daventry, England. 15 kW. "G for Greeting." For other details see GSF, 15.140. Daily, 0900-1045; daily exc. Sun., 0609-0845; Sun., 0630-0845.		PCK, Kootwijk, Netherlands. Works Java. Address: PCV, 17.830 megs.	
17.830 megs.	16.82 m.	18.444 megs.	16.25 m.
PCV, Kootwijk Netherlands. Works Java, mornings. Radiolaboratory Neth. State Telegraphs, Parkstraat 29, S'Gravenhage.		HJY, Bogota, Colombia. Works CEC, LSR, OCI days.	
17.850 megs.	16.80 m.	18.450 megs.	16.25 m.
PLF, Bandoeng, Java, N. E. I.		HBH, Prangins, Switzerland. 20 kW. Address: HBJ, 14.535 megs.	
17.860 megs.	16.78 m.	18.600 megs.	16.12 m.
WQC, Rocky Point, N. Y. 40 kW. Address WPE, 13.840 megs.		PCM, Kootwijk, Netherlands. Address: PCV, 17.830 megs.	
17.880 megs.	16.76 m.	18.620 megs.	16.10 m.
WQI, Rocky Point, N. Y. 1 kW. Address WPE, 13.840 megs.		GAU, Rugby, England. 15 kW. Address: GBX, 16.150 megs.	
17.900 megs.	16.75 m.	18.670 megs.	16.06 m.
WLL, Rocky Point, N. Y. 20 kW. Address WPE, 13.840 megs.		OCI, Lima (Valverde), Peru. Works HJY, CEC, LSR, WNC days. Compania Peruana de Telefonos, Apartado 986, Lima.	
17.920 megs.	16.73 m.	18.830 megs.	15.92 m.
WQF, Rocky Point, N. Y. 40 kW. Address WPE, 13.840 megs.		PLE, Bandoeng, Java, N. E. I. 40 kW. Works Dixon nights, Tokyo mornings. Address: PMC, 18.135 megs.	
17.940 megs.	16.71 m.		
WQB (W2XBJ), Rocky Point, N. Y. 40 kW. Address WPE, 13.840 megs.			

SHORT WAVE STATIONS BY FREQUENCIES

18.860 mags. 15.89 m. WKM, Rocky Point, N. Y. 40 kW. Address: R.C.A., 66 Broad St., N. Y. City.	19.980 mags. 15.01 m. KAX, Manila, P. I. Radio Corp. of the Philippines. Plaza Moraga, Manila.
18.880 mags. 15.88 m. WQH, Rocky Point, N. Y. Address WKM, 18.860 mags.	20.020 mags. 14.98 m. DHO, Nauen, Germany. 7.2 kW. Works S. America. Reichspost-zentralamt, Telegraphentechnisches Reichsamts, Schöneberger Strasse 11-15, Berlin-Tempelhof.
18.890 mags. 15.87 m. ZSS, Capetown (Klipheuevel), Union of South Africa. 5 kW. Works London. Overseas Communication Co., Kodak House, Shortmarket St., Capetown.	20.040 mags. 14.97 m. OPL, Leopoldville, Belgian Congo. 9 kW. Works ORG.
18.900 mags. 15.86 m. WDS, Rocky Point, N. Y. Address WKM, 18.860 mags.	20.100 mags. 14.91 m. WQY, Rocky Point, N. Y. 40 kW. Address: WKM. 18.860 mags.
18.910 mags. 15.86 m. JVA, Nazaki, Japan. 20 kW. Works Europe. Address JVB, 18.190.	20.368 mags. 14.72 m. GAA, Rugby, England. 15 kW. Address: GBX. 16.150 mags.
18.920 mags. 15.84 m. WQE, Rocky Point, N. Y. Address WKM, 18.860 mags.	20.606 mags. 14.55 m. PMB, Bandoeng, Java, N. E. I. Works PCK. Address: PMC, 18.135 mags.
18.940 mags. 15.83 m. WTT, Rocky Point, N. Y. Address WKM, 18.860 mags.	21.020 mags. 14.27 m. LSN, Buenos Aires (Hurlingham), Argentina. Works N. Y. Address: LSN, 14.480 mags.
18.950 mags. 15.82 m. HBF, Prangins (Geneva), Switzerland. 20 kW. Address HBJ, 14.535 mags.	21.060 mags. 14.24 m. KWN (W6XN), Dixon, Calif. 20 kW. Address: KVV, 10.840 mags.
18.958 mags. 15.82 m. LSR, Buenos Aires, Argentina. Works CEC, HJY, OCI.	WKA, Lawrenceville, N. J. 20 kW. Address: WLA, 18.350 mags.
18.970 mags. 15.80 m. GAQ, Rugby, England. Works Capetown 0800. Address GBX, 16.150 mags.	21.070 mags. 14.23 m. PSA, Rio de Janeiro (Marapicu), Brazil. 10 kW. Works N. Y. Address: PSF, 14.690 mags.
19.120 mags. 15.68 m. LSM, Buenos Aires, Argentina. Works Europe.	21.128 mags. 14.19 m. LSM, Buenos Aires (Monte Grande), Argentina. Address: LSY3, 18.115 mags.
19.200 mags. 15.62 m. ORG, Brussels (Ruysselsede), Belgium. 8 kW. Works Leopoldville. Address ORK, 10.330 mags.	21.410 mags. 14.00 m. WKK, Lawrenceville, N. J. Address: WLA, 18.250 mags.
19.220 mags. 15.60 m. WKF, Lawrenceville, N. J. 20 kW. Address WLA, 18.350 mags.	21.460 mags. 13.97 m. W1XAL, Boston, Mass. 5 kW.
19.270 mags. 15.57 m. PPU, Rio de Janeiro, Brazil. Works Paris. 13.5 kW. Address: Cia Radiotelegrafica Brasileira, Caixa Postal 500, Rio de Janeiro.	21.470 mags. 13.96 m. GSH, Daventry, England. "H for Home." Interval sig: Westminster Chimes and Big Ben. Sign off: God Save the King. Address: British Broadcasting Corp., Brcdsting. House, London W.1.
19.345 mags. 15.50 m. PMA, Bandoeng, Java, N. E. I. 40 kW. Address: PMC, 18.135 mags.	21.490 mags. 13.95 m. Villejust, France. 120 kW. Under con- struction.
19.355 mags. 15.46 m. FTM, Ste. Assise, France. Address: FTE, 18.330 mags.	21.530 mags. 13.93 m. GSJ, Daventry, England. "J for Justice." See GSH, 21.470 mags.
19.520 mags. 15.36 m. IRW, Rome, Italy. Works Argentina. 20 kW. Address: Societe Italo Radio, Servizi Radioelectrici, Via Calabria No. 46-48, Roma 125.	21.540 mags. 13.92 m. W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Relays NBC-KDKA. Grant Building. 0700-0900.
19.600 mags. 15.30 m. LSF, Buenos Aires (Monte Grande), Argentina. 7 kW. Address: LSY3, 18.115 mags.	22.290 mags. 13.45 m. GBU, Rugby, England. Works N. Y. Address: GBX, 16.150 mags.
19.680 mags. 15.24 m. CEC, La Granja (Santiago), Chile. 4 kW. Compania Internacional de Radio S. A. (Chile), Casilla 16-D, Santiago.	26.100 mags. 11.49 m. GSK, Daventry, England. "K for King." See GSH, 21.470 mags.
19.820 mags. 15.13 m. WKN, Lawrenceville, N. J. Address: WLA, 18.350.	29.820 mags. 10.05 m. IAF, Fiumicino, Italy. 5 kW.
19.900 mags. 15.06 m. LSG, Buenos Aires (Monte Grande), Argentina. 7 kW. Address: LSY3, 18.115 mags.	30.604 mags. 9.80 m. IAG, Golfo Aranci, Sardinia. 5 kW.

SHORT WAVE STATIONS BY LOCATIONS

ALASKA (K)	P. Wakefield	AZORES (CT2-)	VE9CA 6.030	VE9HX 6.110	Tabouret
Akutun	KGX 2.632	VE9CA 11.860	Lunenburg	CFL 1.620	Verdun
KHW 2.912	KIOC 2.632	Ponta Delgada	VBY 1.540	VBY 1.650	CJZ 2.452
KIOI 2.632	Red Bluff	CT2AJ 4.000	CFQ 3.040		Yamachiche
Cape Pole	KIOG 1.622		CFQ 7.550	Pictou	CGY 3.152
KIJB 2.994	Rose Inlet	BAHAMAS (ZF-)		CKB 2.284	SASKATCHEWAN
Circle	KIAP 3.093	Cat Cay	BRITISH COLUMBIA	Pictou Island	
KIHK 2.994	KLE 2.512	ZFO 5.300	Alert Bay	CKU 2.284	Cub Lake
KIKK 3.190	Saldovia	Nassau	VAF 1.510		CFC 1.596
Cordova	KIKY 3.265	ZFS 4.512	Anyox		CFC 1.668
KDV 2.538	Shearwater Bay		CZQ 5.405	Bowmanville	Emma Lake
Deep Cove	KIJW 2.632	BELGIAN CONGO (OP-)	Bones Bay	CRCX 6.090	CGV 1.596
KHP 1.622	Tanana	Leopoldville	CFW 2.290	VE9GW 11.810	CGV 1.668
KIJV 1.622	KIJJ 2.994	OPL 20.040	Campbell River	VE9GW 24.380	
Eagle	KIJJ 3.190	OPM 10.135	CGT 4.865	Kenora	
KIIN 2.994	KION 2.616	BELGIUM (ONA-OTZ)	CJD 1.510	CFD 1.620	Hudson Bay
KIIN 3.190	Todd	Brussels	CJD 1.540	CFD 5.660	Junct.
Excursion Inlet	KGQ 2.986	ORG 19.200	Cape Lazo	Leamington	VXV 5.540
KILY 2.994	KIJU 2.986	ORK 10.330	VAC 1.510	CFT 2.284	Isle-a-la-Crosee
Eyak River	KIJP 2.986	BELGIUM (ONA-OTZ)	Ceepeecee	CFX 2.284	CZJ 1.668
KIKN 3.093	Union Bay	Brussels	CJE 2.290	CFX 2.284	Lac la Ronge
Fort Yukon	KKF 2.566	ORG 19.200	Claydon Bay	CFJ 1.620	CGQ 1.668
KIIL 2.994	KICG 3.265	ORK 10.330	CZP 4.505	CFJ 5.660	Prince Albert
KIIL 3.190	View Cove	BERMUDA (ZF-)	Homalko		VVP 1.596
Hidden Inlet	KICI 3.093	Hamilton	VFJ 2.290	PRINCE EDWARD ISLAND	VVP 1.668
KIDE 3.265	Washington Bay	ZFA 5.025	Humpback Bay		VXU 5.540
KLD 2.566	KIJK 1.622	ZFB 10.055	CZL 2.290	Borden	VXW 5.540
Hot Springs	Waterfall	St. George	CZL 2.290	CJM 1.580	CANAL ZONE (W)
KIIM 2.994	KIBZ 3.265	ZFD 10.335	CZL 2.290	Charlottetown	
KIIM 3.190	KLA 2.566	BOLIVIA (CPA-CPZ)	CZL 2.290	VE9EH 6.080	Albrook Field
Iron Creek	KIIP 3.093	La Paz	CZL 2.290		WTR 6.385
KIOH 2.632	KDK 2.538	CP5 6.080	Namu	QUEBEC	CHILE (CAA-CEZ)
KIOH 3.190	ARGENTINA (LOA-LVZ)	CP6 9.120	Ocean Falls	Belleveue	Santiago
Juneau	Buenos Aires	CP7 15.300	CGO 4.505	CZB 1.620	CEC 5.820
KMYA 2.304	LQA 9.600	BRAZIL (PPA-PYZ)	Prince George	Crane Island	CEC 7.740
KMYA 4.610	LSF 19.600	Rio de Janeiro	CZO 4.505	CKO 2.284	CEC 8.710
WXA 8.050	LSG 19.900	PPQ 11.670	Prince Rupert	Drummondville	CEC 10.670
Kadiak Island	LSK3 10.250	PPU 19.270	CGP 3.268	CFA2 4.465	CEC 15.860
KIJX 2.632	LSL 9.990	PRF5 9.505	CGP 5.405	CFA4 10.520	CEC 19.680
Kake	LSM 19.120	PSA 14.935	CGZ 1.712	CGA 18.180	
KIBA 3.093	LSM 21.128	PSA 21.070	CZG 2.416	CGA2 13.745	
KLC 2.512	LSN 9.895	PSD 15.070	CZG 6.425	CGA4 9.332	
Ketchikan	LSN 14.480	PSF 14.690	Rosland	CGA6 6.690	
KBAI 2.304	LSN 21.020	PSH 10.220	CFU 4.755	CGA7 6.880	
KGM 2.512	LSN2 9.890	PSK 8.180	CFU 5.660	CGA9 4.348	
KIAY 3.093	LSR 18.958	BRITISH GUIANA (VP3)	CFU 6.720	CGD 3.340	
WXH 2.604	LSX 10.350	Georgetown	CFU 13.200	CJ3A 17.710	
WXH 6.662	LSY3 18.115	VP3MR 7.080	Sage Creek	CJA6 6.760	
McGrath	AUSTRALIA (VHA-VMZ)	CANADA (CFA-CKZ; CYA-CZZ; VAA-VGZ; VXA-VYZ)	VXX 5.405	CZA 2.980	
KIIO 2.994	VIZ3 11.495	NEW BRUNSWICK	Vancouver	CZA 4.785	
KIIO 3.190	Fiskville	Fredericton	CGZ 2.452	CZA 6.285	
KHV 2.566	Melbourne	VE9AS 6.425	VE9CS 6.070	CZA 8.515	
KICE 3.265	VK3LR 9.580	St. John	Waterloo Mine	CZA 12.660	
KGI 2.632	VK3ME 9.593	CJW 2.416	CZV 3.300	VE9DN 6.005	
Nellie Juan	Sydney	VE9BJ 6.090	CZV 4.840	VE9DN 9.555	
KGJ 2.632	VK2ME 9.585	NOVA SCOTIA	Manicouagan	VE9DN 11.780	
KIOD 2.632	VLJ 9.750	Halifax	CFM 1.620	High Falls	
KIOD 2.632	VLK 8.095	VEBQ 2.350	CFM 1.620	VYZ 2.212	
Newport	VLK 10.520		Montmagny	Manicouagan	
Walter	VLZ 7.960		CKP 2.284	CFM 1.620	
KIJS 1.622	VLZ 7.980		Montreal	CFM 1.620	
Pillar Bay	AUSTRIA (OAE-OEZ)		CGM 3.152	CFM 1.620	
KDY 2.994	Vienna		VE9DR 6.005	CFM 1.620	
KNBZ 2.994	OER2 6.072		VE9DR 9.580	CFM 1.620	
Poorman			YVR 1.712	CFM 1.620	
KIEJ 2.994			Riviere du Chef	CFM 1.620	
Port Alexander			CZY 1.620	CFM 1.620	
KDH 2.538			St. Felecion	CFM 1.620	
KGXW 1.606			CZZ 1.620	CFM 1.620	
Port Althorp				CFM 1.620	
KIAW 3.093				CFM 1.620	
KLB 2.512				CFM 1.620	
Port Armstrong				CFM 1.620	
KGXU 1.622				CFM 1.620	
Port Conclusion				CFM 1.620	
KIJI 1.622				CFM 1.620	
Port Herbert				CFM 1.620	
KIJO 1.622				CFM 1.620	
Port Hoborn				CFM 1.620	
KHZ 2.912				CFM 1.620	
KIMA 2.632				CFM 1.620	
Port San Juan				CFM 1.620	
KIJR 2.986				CFM 1.620	

SHORT WAVE STATIONS BY LOCATIONS

HJN 6.080	DOMINICAN REPUBLIC (HIA-HIZ)	FZS 18.342	HAT3 8.565	KENYA (VQ7-)	PLV 9.415
HJP 7.465		FZS2 11.990	HAT4 9.125	Nairobi	PMA 19.345
HJY 9.930				VQ7LO 6.060	PMB 20.606
HJY 18.444		GERMANY (D)		MACAU	PMC 18.135
HJ3ABD 7.390	San Pedro de Macorist	Nauen	INDIA (VTA-VWZ)	Macau	PMN 10.260
HJ3ABF 6.200	HIH 6.800	DFA 19.240	Bombay	CQN 6.073	PMY 5.140
HJ3ABH 6.012	Santiago de los Caballeros	DFB 17.520	VUB 9.565	MADAGASCAR (F)	YDA5 6.120
HKE 7.090	HI-1-A 6.240	DFC 12.980	Calcutta		YDD2 1.630
Bucaramanga	Santo Domingo	DFD 14.665	VUC 6.112		YDH3 3.490
HJ2ABD 5.980	HIH 10.040	DFE 9.810	VUC 9.575		YDH4 3.310
Cali	HIL 6.518	DFL 10.850			YDH6 3.130
HJ5ABD 6.490	HIZ 5.980	DGK 6.675	Kirkee		YDH8 1.960
HJ5ABE 14.000	HIAD 6.500	DGU 9.609	VWY 8.975	Tananarive	YDA2 2.385
Cartagena		DHO 20.020	VWY 17.480	5.996	YDD3 1.585
HJ1ABD 7.280		DJK 12.035	VWZ 8.690	MANCHUKUO (J)	YDG2 3.470
HJ1ABE 6.115			VWZ 8.693		YDG3 3.150
Cienaga	ECUADOR (HCA-HCZ)	Norden	VWZ 8.700		YDG4 2.850
HJ1ABH 6.300		DAF 4.320	VWZ 8.708	Shinkio	YDG5 2.090
Cucuta	Guayaquil	DAF 8.464		JZA 15.680	YDG6 1.900
HJAT 5.400	HC2CW 8.625	DAF 12.325	ITALY (I)	JZB 10.960	YDG7 3.300
HJ2ABC 5.975	HC2ET 4.600	DAF 17.260	Coltano	JZC 5.830	Buitenzorg
Manizales	HC2JSE 4.283		IAC 4.355		YDA3 1.640
HJ4ABB 7.200	HC2RL 6.659	Zeesen	IAC 6.650	MEXICO (XAA-XFZ)	YDH9 1.920
HJ4ABL 6.100	Quito	DIQ 10.285	IAC 12.795	Guadalajara	Cheribon
Medellin	HCJB 8.214	DJA 9.560		XEDQ 9.520	YD14 1.840
HJ4ABA 11.720	PRiObamba	DJB 15.200	Fiumicino	Mexico City	Djember
HJ4ABE 5.900	PRADO 6.620	DJC 6.020	IAF 5.415	XDA 14.525	YDQ2 3.390
Pereira	PRADO 15.440	DJD 11.770	IAF 29.820	XEBT 6.000	Djocjarcata
HJ4ABC 6.230		DJE 17.760	Golfo Aranci	XECR 7.380	YDB3 1.660
Santa Marta	EGYPT (STA-SUZ)	DJG 4.580	IAG 30.604	XECW 5.980	YDE5 2.350
HJ1ABJ 6.006		DJL 15.110	Rome		YDL4 3.410
Tunja	SUV Cairo 10.055	DJM 6.080	IRA 6.070	MOROCCO (CNA-CNZ)	YDL5 3.210
HJ2ABA 6.170	SUZ 13.810 to 13.830	DJN 9.540	IRE 11.810	Rabat 8.035	YDL6 2.750
COSTA RICA (TIA-TIZ)		DJO 11.790	IRF 8.070	CNR 12.820	Garoot 5.250
Cartago	FEDERATED MALAY STATES (ZG-)	DJP 11.850	IRM 9.823		Kediri 1.940
TIN 14.545	Kuala Lumpur ZGE 6.125	DJQ 15.280	IRO 9.780	NETHERLANDS (PAA-PNZ)	Madioen 2.790
TIU 14.545		DJR 15.340	IRW 19.520	Hilversum	Magelang 3.270
TIR 7.685		GUATEMALA (TGA-TGZ)	I2RO 5.550	PCI 15.220	Malang 1.570
San Jose		Guatemala City	I2RO 5.725	PHJ 11.725	YDQ3 3.350
TIEP 6.710		TGF 14.545	I2RO 6.085	PHI 17.775	YDQ4 3.230
TIEP 13.415		TGX 9.450	I2RO 6.980	Kootwijk	YDQ5 2.950
TIGPH 5.820		TGX 5.940	I2RO 9.630	PKC 28.400	YDQ6 2.810
TIPG 6.410	FIJI (VPA-VSZ)	HAWAII (K)		PCM 18.600	Pekalongan
TIRCC 6.550	Suva 13.045	Honolulu	JAPAN (J)	PCV 17.830	YDA7 3.270
CUBA (CLA-CMZ; COA-COZ)		KGPQ 1.712	Kemikawa-Che	PDK 10.410	YD12 2.890
Camaguey		Kahuku	JYK 13.600	PDV 12.050	Semarang
CO9JQ 8.665		KEQ 6.733	JYR 7.880		YDB2 2.450
Havana		KIO 11.680	JYS 9.840	NETHERLAND EAST INDIES (PKA-POZ; YBA-YHZ)	YDE3 2.910
CMB 5.780		KKH 7.520	JYT 15.760	Borneo	YDK2 3.190
COCD 6.130		KKP 16.030		Bandjermasin	YDK3 2.910
COCH 9.428		KRO 5.845		YDU5 1.850	YDK4 2.710
COCO 6.010		..... 5.845		YDV2 3.330	YDK6 1.860
Sancti Spiritus		..... 7.520		Celebes	Soekaboemi
CO9WR 11.800		..... 11.680		Macassar	YDA4 1.550
Santiago		..... 16.030		PNI 8.775	YD12 2.110
CO9GC 6.150		HONDURAS (HRA-HRZ)		Menado	Solo
DARIEN (J)		Tela		YBZ 7.680	YDB5 1.595
Darien		HRM 13.810		Balikpapan	YDE2 4.810
JDX 15.510		HRM 14.500		YCP 8.575	YDL2 4.810
JDY 9.920		HONGKONG (Z)		Bandoeng	YDL3 3.450
JDZ 5.710		Hongkong ZBW 6.750		PLE 18.830	Sourabaya
DENMARK (OUA-OZZ)				PLF 17.850	YDB 4.480
Copenhagen		HUNGARY (HAA-HAZ)		PLG 15.950	YDB7 1.530
OXY 6.060		Budapest		PLK 14.480	YDE4 2.415
OXY 9.490		HAS3 15.370		PLM 12.290	YD02 3.430
OXY 15.300		HAT 5.400		PLQ 11.000	YD03 3.290
		HAT2 7.220		PLP 10.670	YD04 3.170
					YD05 2.930
					YD06 2.770
					YD07 2.070

SHORT WAVE STATIONS BY LOCATIONS

Wilmette
NMP 2.670
NMP 2.698
Wheeling
WMEQ 6.615

INDIANA

Columbia City
..... 1.634
Culver
WPHS 1.634
Fort Wayne
WPDZ 2.490
Indianapolis
WMDZ 2.442
..... 1.634
Jasper
WPHU 1.634
Kokomo
WPDZ 2.490
Marion County
WPHE 1.634
Muncie
WPGP 2.442
Richmond
WPDH 2.442
Seymour
WQFE 1.634
South Bend
WPGN 2.490

IOWA

Cedar Rapids
KGOZ 2.466
Davenport
KGNP 2.466
Des Moines
KGHO 1.682
KGZG 2.466
Sioux City
KGPX 2.466
Storm Lake
KNFO 1.682
Waterloo
KNFN 1.682

KANSAS

Chanute
KGZF 2.450
Coffeyville
KGZF 2.450
Dodge City
KNGH 2.474
Garden City
KNFH 2.474
Hutchinson
KGHN 2.450
Leavenworth
KNFF 2.422
Manhattan
W3XAK 2.050
Topeka
KGZC 2.422
Wichita
KGPZ 2.450

KENTUCKY

Lexington
WPET 1.706
Louisville
WPDE 2.442

LOUISIANA

Baton Rouge
WPEQ 1.570
New Orleans
WPEK 2.430
Shreveport
KGPY 1.574
KGLZ 1.712
KNGP 2.430

MAINE

Portland
WPFU 2.422

MARYLAND

Baltimore
WPFH 2.414

MASSACHUSETTS

Arlington
WPED 1.712
Boston
WEY 1.630
WPGV 1.712
W1XAL 6.040
W1XAL 11.790
W1XAL 15.250
W1XAL 21.460
W1XH 2.110

BROOKLINE

WPEJ 1.712
Fairhaven
WPFN 1.712
Fitchburg
WPHA 2.466
Framingham
WMP 1.666

GLOUCESTER

NOG 2.670
Marshfield
WOU 2.506
Medford
WPHG 1.712
Millis
W1XK 9.570
Newton

WPFA 1.712
Northampton
WPEW 1.666
Somerville
WPEH 1.712
W. Bridgewater
WPEL 1.666
Winthrop
NMF 2.670
Woods Hole
NOP 2.670
Worcester
WPGX 2.466

MICHIGAN

Bay City
WPGA 2.466
Cheboygan
Range
WVG 3.410
Detroit
WCK 2.414
WKDT 1.630
WPDZ 2.414
WNN 3.410
WWR 3.410

E. Lansing

WRDS 1.642
Flint
WPDF 2.442
Fourteen Foot
Shoals
WWE 3.410
Grand Rapids
WPEB 2.442
Grosse Pointe
WRDR 2.414
Highland Park
WMO 2.414
Huron Island
WVAO 3.410
Jackson
WPHP 2.466
Lansing
WPDZ 2.442
Manitou Island
WVAJ 3.410
Marquette
WMM 3.410
Muskegon
WPCF 2.442
Passage Island
WWAL 3.410
Poe Reef
WRJ 3.410
Port Huron
WPGE 2.466
Rock of Ages
WWAM 3.410
Saginaw
WPES 2.442
Sault Ste. Marie
NOR 2.670
NOR 2.698
Selfridge Field
VKI 6.425
Stannard Rock
WVH 3.410

MINNESOTA

Duluth
KNFE 2.382
Minneapolis
KGPB 2.430
St. Paul
WPDZ 2.430

MISSOURI

Jefferson City
KIUK 1.674
Kansas City
KGPE 2.422
Napoleon
WYBF 2.604
St. Louis
KGPC 1.706

MONTANA

Glacier Nat'l
Park
KNIA 2.604

NEBRASKA

Lincoln
KGZU 2.490
Norfolk
KNGN 2.490
Omaha
KGPI 2.466

NEVADA

Reno
KGHM 2.474
NEW
HAMPSHIRE
Nashua
WPHB 2.422

NEW JERSEY

Bound Brook
W3XAL 6.100
W3XAL 17.780
W3XL 6.425
W3XL 17.310
Cape May
NOV 2.670
Hackensack
WPFK 2.430
Lawrenceville
WKA 21.060
WKF 4.253
WKF 19.220
WKK 21.410
WKN 19.820
WLA 18.350
WLK 16.270
WMA 13.390
WMF 14.470
WMN 14.590
WNA 9.170
WNB 10.675
WOB 6.755
WOB 5.850
WOF 9.750
WOK 10.550
WON 9.870
WOY 4.178
WOY 4.753
WOY 8.560
WOY 12.840
WOY 17.120
New Brunswick
WKJ 9.460
Ocean Gate
WOG 4.253
WOO 4.178
WOO 4.753
WOO 8.560
WOO 12.840
WOO 17.120
Passaic
WPDJ 2.414
Tuckerton
WCG 10.370
Wayne
W2XE 6.120
W2XE 11.830
W2XE 15.270

NEW MEXICO

Albuquerque
KGZX 2.414
Clovis
KNFA 2.414
Santa Fe
KGPF 2.414

NEW YORK

Albany
WPGH 2.414
Auburn
WPDN 2.382
Binghamton
WPGL 2.442

Bronx

WPEF 2.450
Brooklyn
WPEE 2.450
Buffalo
NOB 2.670
NOB 2.698
WMJ 2.422
Huntington
WPGO 2.490

Mineola

WPGS 2.490
Mitchell Field
W09 6.385
New York
WOZ 3.423
WPEG 2.450
Niagara Falls
WNFF 2.422
Oneonta
..... 2.414

Rochester

WPDZ 2.422
Rockaway Point
NMY 2.670
Rocky Point
WAD 8.930
WAJ 13.480
WBU 21.260
WDB 6.718
WDG 4.535
WDN 4.550
WDA 18.900
WDE 10.610
WEB 6.935
WEC 8.930
WEL 8.950
WEL 13.435
WEM 7.400
WEN 9.448
WET 9.470
WEZ 6.928
WIR 4.276
WIR 4.540
W1Y 13.870
W1N 7.370
W1C 10.465
W1L 8.940
W1M 18.860
W1O 15.970
W1P 6.950
W1Q 14.830
W1R 15.445
W1S 17.900
W1T 13.840
W1U 17.940
W1V 17.860
W1W 18.920
W1X 17.920
W1Y 15.040
W1Z 18.880
W1A 17.889
W1B 14.815
W1C 5.263
W1D 5.505
W1E 5.825
W1F 6.725
W1G 13.900
W1H 16.015
W1I 13.915
W1J 13.855
W1K 14.800
W1L 10.600
W1M 20.100
W1N 18.940

Schenectady
W2XAD 15.330
W2XAF 9.530

S. Schenectady

WPGC 1.658
St. George
WOX 2.590
Syracuse
WPEA 2.382
Utica
WPGJ 2.414
Yonkers
WPFY 2.442

NORTH CAROLINA

Asheville
WPFS 2.458
WPFS 2.474
Charlotte
WPDV 2.458

OHIO

Akron
WPDO 2.458
Cincinnati
WKDU 1.706
W8XAL 6.060
Cleveland
NMD 2.670
NMD 2.698
WRBH 2.458
Columbus
WPGI 2.430
WPGQ 1.596
Dayton
WPDZ 2.430
Findlay
WPGG 1.596
Lancaster
WQFO 2.430
Lorain
WMES 2.550
Massillon
WPHC 1.596
Portsmouth
WPGI 2.430
Staubenville
WPHD 2.458
Suffield
WMEP 2.930
WMEP 6.615
Toledo
WRDQ 2.474
Wilmington
WPHK 1.596
Wright Field
PE2 6.445
Youngstown
WPDG 2.458
Zanesville
WPHO 2.430

OKLAHOMA

Duncan
KNGK 2.450
Lawton
KGHP 2.466
Muskogee
KNGT 2.450
Oklahoma City
KGPH 2.450
Tulsa
KGPO 2.450

OREGON

Hood River
KIJY 2.728

SHORT WAVE STATIONS BY LOCATIONS

<p>Klamath Falls KGZH 2.442</p> <p>Portland KGPP 2.442</p> <p>Salem KGZR 2.442</p> <hr/> <p>PENN-SYLVANIA</p> <p>Harrisburg WPSP 1.674</p> <p>New Castle WPGT 2.482</p> <p>Oil City WPHZ 2.482</p> <p>Philadelphia WPPD 2.474</p> <p>WWHJ 3.410</p> <p>W3XAU 6.060</p> <p>W3XAU 9.590</p> <p>Pittsburgh WPDU 1.712</p> <p>W8XK 6.140</p> <p>W8XK 9.570</p> <p>W8XK 11.870</p> <p>W8XK 15.210</p> <p>W8XK 17.780</p> <p>W8XK 21.540</p> <p>Reading WPFE 2.442</p> <p>Swarthmore WPFQ 2.474</p> <hr/> <p>RHODE ISLAND</p> <p>Cranston WPGK 2.466</p> <p>E. Providence WPEI 1.712</p> <p>Pawtucket WPFV 2.466</p> <p>Woonsocket WPEM 2.466</p> <hr/> <p>SOUTH DAKOTA</p> <p>Rapid City KNGM 2.450</p>	<p>TENNESSEE</p> <p>Johnson City WPGZ 2.474</p> <p>Knoxville WPFO 2.474</p> <p>Memphis WPEC 2.466</p> <hr/> <p>TEXAS</p> <p>Austin KGHU 2.442</p> <p>Beaumont KGPJ 1.712</p> <p>Brownsville KGHT 2.382</p> <p>Brownwood 2.458</p> <p>Cleburne KNGE 1.712</p> <p>Corpus Christi KGHV 2.382</p> <p>Dallas KVP 1.712</p> <p>El Paso KGZM 2.414</p> <p>Fort Worth KGPR 1.712</p> <p>Galveston KNGL 1.712</p> <p>NOY 2.670</p> <p>Houston KGBZ 1.712</p> <p>Lubbock KGZW 2.458</p> <p>San Antonio KGZE 2.482</p> <p>Waco KGZQ 1.712</p> <p>Wichita Falls KGZI 2.458</p> <hr/> <p>UTAH</p> <p>Salt Lake City KGPW 2.406</p>	<p>VIRGINIA</p> <p>Bolling Field IS3 5.015</p> <p>Cape Henry NMN 2.670</p> <p>Langley Field FG7 6.645</p> <hr/> <p>WASHINGTON</p> <p>Aberdeen KGZV 2.414</p> <p>Bear River Camp KNFY 2.490</p> <p>Bellingham KNFK 2.490</p> <p>S. S. Cadrew WIFI 2.738</p> <p>Carbon KGYF 3.387</p> <p>Centralia KGHW 2.414</p> <p>Chinook Pass KGHQ 2.490</p> <p>Edmonds KOW 2.522</p> <p>Ellensburg KNFX 2.490</p> <p>Ephrata 2.490</p> <p>Everett KNFP 2.414</p> <p>Grays Harbor NMW 2.670</p> <p>Hells Crossing Camp KNFZ 2.490</p> <p>Longmire KGYA 3.387</p> <p>KGVB 3.387</p> <p>Mt. Vernon KNFI 2.414</p> <p>Olympia KNFG 2.490</p> <p>Paradise KGYC 3.387</p> <p>Port Townsend NOZ 2.670</p>	<p>Satus Pass Camp KNGA 2.490</p> <p>Seattle KGHD 2.490</p> <p>KGPA 2.414</p> <p>WVD 2.604</p> <p>WVD 5.995</p> <p>WVD 6.618</p> <p>Shuksan Camp KNFL 2.490</p> <p>Skykomish KNFU 2.490</p> <p>Snoqualmie Pass KGHE 2.490</p> <p>Spokane KGHS 2.414</p> <p>KGHS 2.458</p> <p>Sunrise KGYD 3.387</p> <p>Tacoma KGZN 2.414</p> <p>Vancouver KNGC 2.490</p> <p>Walla Walla KNGD 2.490</p> <p>Wenatchee 2.490</p> <p>White River WGYE 3.387</p> <p>Yakima KGNB 2.490</p> <p>KNGU 2.414</p> <hr/> <p>WEST VIRGINIA</p> <p>Charleston WPHI 2.490</p> <p>Clarksburg WPPF 2.490</p> <p>Fairmont WPHJ 2.490</p> <p>Parkersburg WPHQ 2.490</p> <hr/> <p>WISCONSIN</p> <p>Kenosha WPEP 2.450</p>	<p>Milwaukee WPKD 2.450</p> <hr/> <p>URUGUAY (CVA-CXA)</p> <p>Montevideo CWD 5.830</p> <p>CWE 6.610</p> <p>CWF 8.455</p> <p>CWG 11.370</p> <p>CWH 13.140</p> <hr/> <p>VATICAN STATE (HVA-HVZ)</p> <p>Vatican City HVJ 5.970</p> <p>HVJ 15.120</p> <hr/> <p>VENEZUELA (YVA-YWZ)</p> <p>Barquisimeto YV8RB 5.875</p> <p>Caracas YV2RC 6.112</p> <p>YV3RC 6.150</p> <p>YV4RC 6.375</p> <p>YV9RC 6.400</p> <p>Maracaibo YV5RMO 5.850</p> <p>Maracay YVQ 6.672</p> <p>YVQ 13.337</p> <p>YVR 9.168</p> <p>YVR 18.296</p> <p>Valencia YV6RV 6.520</p> <hr/> <p>VIRGIN ISLANDS (W)</p> <p>St. Thomas WTDV 4.295</p> <p>St. Croix WTDW 4.295</p> <p>St. John WTDX 4.295</p>
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SHORT WAVE STATIONS BY CALLS

CEC 5.820	CFT 2.284	CGP 3.268	CJW 2.416	CP7 15.300	CZG 2.416	DDCP 4.413
CEC 7.740	CFU 4.755	CGP 5.405	CJX 2.290	CQN 6.073	CZG 6.425	DDCP 8.830
CEC 8.710	CFU 5.660	CGQ 1.596	CJZ 2.452	CRCX 6.090	CZJ 1.596	DDCP 13.040
CEC 10.670	CFU 6.720	CGQ 1.668	CKB 2.284	CR6AA 7.175	CZJ 1.668	DDFF 4.413
CEC 15.860	CFU 13.200	CGT 4.865	CKO 2.284	CSL 6.150	CZL 2.290	DDFF 8.830
CEC 15.860	CFV 2.290	CGV 1.596	CKP 2.284	CT1AA 9.600	CZO 4.505	DDFF 13.040
CEC 19.880	CFW 2.290	CGV 1.668	CKS 3.040	CT1AA 15.350	CZP 4.505	DDFT 4.413
CFA2 4.465	CFX 2.284	CGY 3.152	CKS 7.550	CT1CT 3.750	CZQ 4.505	DDFT 8.830
CFC 1.596	CGA 18.180	CGZ 2.452	CKU 2.284	CT1GO 6.132	CZV 3.900	DDFT 13.040
CFC 1.668	CGA2 13.745	CJA3 17.710	CMB 5.780	CT2AJ 4.000	CZV 4.840	DFB 17.520
CFC 1.620	CGA4 9.332	CJA6 6.760	CNR 8.035	CWD 5.830	CZY 1.620	DGK 6.675
CFD 1.620	CGA6 6.690	CJD 1.510	CNR 12.820	CWE 6.610	CZZ 1.620	DGU 9.609
CFD 5.660	CGA7 6.880	CJD 1.540	COCD 6.130	CWF 8.455	DAF 4.320	DHAO 4.413
CFJ 1.620	CGA9 4.348	CJE 2.290	COCH 9.428	CWG 11.370	DAF 8.464	DHAO 8.830
CFJ 5.660	CGD 3.340	CJK 1.510	COCO 6.010	CWH 13.140	DAF 12.325	DHAO 13.040
CFM 1.620	CGE 3.040	CJM 1.580	CO9GC 6.150	CZA 2.980	DAF 12.745	DHDL 4.413
CFM 1.620	CGE 7.550	CJRO 6.150	CO9JQ 8.665	CZA 4.785	DAF 17.260	DHDL 8.830
CFM 3.040	CGM 3.152	CJRX 11.720	CO9WR 11.800	CZA 17.310	DDBR 4.413	DHDL 13.040
CFQ 7.550	CGM 3.340	CJU 3.070	CP5 6.080	CZB 1.620	DDBR 8.830	DHEY 4.413
	CGO 4.506	CJU 3.452	CP6 9.120	CZG 1.712	DDBR 13.040	DHEY 8.830

SHORT WAVE STATIONS BY CALLS

DHEY	13.040	GCB	9.280	HJABL	6.100	KBCA	3.385	KGYI	3.387	KIJZ	2.728	KNLP	3.410
DHEY	16.460	GCG	13.415	HJ5AB	6.490	KBCB	3.385	KGZA	2.414	KIKL	6.615	KNLQ	3.410
DHJZ	4.413	GCJ	9.020	HJ5ABE	14.000	KBCD	3.445	KGZB	1.712	KIKN	3.093	KNLR	3.410
DHJZ	8.830	GCU	9.950	HKE	7.090	KBCF	3.445	KGZC	2.422	KIKY	3.265	KNLS	3.387
DHJZ	13.040	GCW	9.730	HPC	10.290	KBCG	3.445	KGZD	2.490	KILB	2.150	KNLX	3.387
DHO	20.020	GDB	4.320	HPF	14.545	KBCG	3.385	KGZE	2.480	KILU	1.622	KOU	2.566
DHRL	4.413	GDB	4.320	HPSB	6.030	KBCJ	3.385	KGZF	2.452	KILL	2.520	KOW	2.522
DHRL	8.830	GDLJ	4.430	HPSJ	5.990	KBCJ	3.155	KGZG	2.466	KILY	2.994	KQJ	18.020
DHRL	13.040	GDLJ	13.320	HRM	13.810	KBK	6.758	KGZH	2.442	KIMA	2.632	KRO	5.845
DHTY	4.413	GDS	6.095	HRM	14.500	KDM	2.538	KGZI	2.458	KINT	2.726	KSW	1.658
DHTY	8.830	GDW	4.820	HST	8.020	KDK	2.538	KGZO	2.430	KIO	11.680	KSW	2.422
DHTY	13.040	GLRZ	4.415	HSP	7.968	KDV	2.538	KGZL	1.712	KIOC	2.632	KTO	16.240
DHTY	16.765	GMBJ	4.413	HSP	8.396	KDX	2.986	KGZM	2.414	KIOD	2.632	KTP	8.120
DIQ	10.285	GMBJ	12.955	HSP	17.740	KDY	2.994	KGZN	2.414	KIOG	1.622	KVP	1.712
DJA	9.560	GSA	6.050	HVJ	5.970	KEE	7.715	KGZO	2.414	KIOH	2.632	KWN	21.600
DJB	15.200	GSB	9.510	HVJ	15.120	KEJ	9.010	KGZP	2.450	KIOI	2.632	KWO	15.415
DJD	6.020	GSC	9.580	IAC	4.355	KEI	6.860	KGZQ	1.712	KION	2.632	KWU	15.355
DJD	11.770	GSD	11.750	IAC	6.650	KEJ	6.733	KGZR	2.442	KIUK	1.674	KWV	10.840
DJE	17.760	GSE	11.860	IAC	12.795	KES	10.410	KGZT	1.674	KKH	7.520	KWY	7.610
DJC	4.580	GSE	15.140	IAC	17.770	KEZ	10.400	KGZU	2.490	KKL	15.475	KWY	7.565
DJK	12.035	GSG	17.790	IAC	5.415	KFF	2.566	KGZV	2.414	KKP	16.030	KZGF	5.765
DJM	6.080	GSJ	21.470	IAC	29.820	KGHA	2.490	KGZW	2.458	KKQ	11.950	KZGF	9.170
DJN	9.540	GSJ	15.260	IAC	30.604	KGHB	2.490	KGZX	2.414	KKW	13.780	KZGG	5.825
DJO	11.790	GSJ	21.530	ICEJ	13.050	KGHC	2.490	KGZY	1.712	KKZ	13.690	KZGG	8.340
DJQ	15.280	GSK	26.100	IRA	6.070	KGHD	2.490	KHP	1.622	KLA	2.566	KZGH	5.795
DJR	15.340	GSL	6.110	IRE	11.810	KGHE	2.490	KHV	2.566	KLB	2.512	KZGH	9.490
DOAH	4.413	G6RX	4.320	IRF	8.070	KGHG	2.474	KHW	2.912	KLC	2.512	LCL	6.130
DOAH	8.830	HA53	15.370	IRM	9.823	KGHK	1.674	KHZ	2.912	KLD	2.566	LCO	13.980
DOAH	13.040	HAT	5.400	IRO	9.780	KGHM	2.474	KIAP	3.093	KLE	2.512	KLJ1	9.540
DOAI	4.413	HAT2	7.220	IRW	19.520	KGHN	2.450	KIAW	3.093	KLK	2.738	LQA	9.600
DOAI	8.830	HAT3	8.565	IS3	5.055	KGHO	1.682	KIAY	3.093	KLH	2.506	LSF	19.600
DOAI	13.040	HAT4	9.125	I2RO	5.510	KGHP	2.466	KIBA	3.093	KMYA	2.304	LSG	19.900
DOAI	16.600	HBH	18.950	I2RO	5.725	KGHQ	2.490	KIBZ	3.265	KMYA	4.610	LSK3	10.250
DOBX	4.413	HBH	18.450	I2RO	6.085	KGHR	2.490	KICE	3.265	KNBZ	2.994	LSL	9.990
DOBX	8.830	HBJ	14.535	I2RO	6.980	KGHS	2.458	KICG	3.265	KNED	1.606	LSM	19.120
DOBX	13.040	HBL	9.595	I2RO	9.380	KGHT	2.490	KICI	3.093	KNFA	2.414	LSM	21.128
EAQ	9.862	HBP	7.797	JDX	15.510	KGHU	2.442	KIDE	3.265	KNFB	2.458	LSN	9.895
FG7	6.645	HBO	12.030	JDY	9.920	KGHV	2.382	KIED	1.622	KNFE	2.382	LSN	14.480
FNSK	4.390	HB9AT	14.290	JDZ	5.710	KGHW	2.414	KIED	2.150	KNFF	2.422	LSN	21.020
FNSK	4.410	HB9B	14.236	JJA	15.750	KGHX	2.430	KIEF	1.622	KNFG	2.490	LSN2	9.890
FNSK	8.810	HB9H	7.005	JIB	10.530	KGHY	1.712	KIEF	2.150	KNFH	2.474	LSR	18.958
FNSK	8.830	HB9J	14.400	JIC	5.890	KGHZ	2.406	KIEJ	2.994	KNFI	2.414	LSX	10.350
FNSK	13.190	HCJB	8.214	JVA	18.910	KGI	2.632	KIEL	1.622	KNFJ	1.712	LSY3	18.115
FNSK	13.210	HCK	5.815	JVB	18.190	KGJX	1.712	KIEL	2.150	KNFK	2.490	NMC	2.670
FNSM	4.413	HC2CW	8.625	JVC	16.050	KGM	2.512	KIEO	2.150	KNFL	2.490	NMD	2.670
FNSM	8.830	HC2ET	4.600	JVD	15.860	KGOZ	2.466	KIFI	1.622	KNFM	2.490	NMD	2.698
FNSM	13.395	HC2JSB	4.283	JVE	15.660	KGPA	2.414	KIFI	2.150	KNFO	1.682	NMF	2.670
FTA	11.840	HC2JSB	7.770	JVF	15.620	KGPB	2.430	KIFT	2.150	KNFN	1.682	NMG	2.670
FTE	18.330	HC2RL	6.659	JVG	14.910	KGPC	1.706	KIGA	1.606	KNFP	2.414	NMN	2.670
FTK	15.863	HIH	6.800	JVH	14.440	KGPD	2.466	KIGA	2.102	KNFR	2.490	NMP	2.670
FTM	19.355	HII	10.040	JVI	13.560	KGPE	2.422	KIGW	2.102	KNFS	2.490	NMP	2.698
FTN	12.260	HIL	6.518	JVJ	12.270	KGPF	2.414	KIHH	2.190	KNFU	2.490	NMV	2.670
FTNQ	4.413	HIX	5.980	JVK	12.020	KGPG	2.422	KIJJ	2.994	KNFX	2.490	NMW	2.670
FTNQ	8.830	HIZ	6.340	JVL	11.660	KGPH	2.450	KIJJ	3.190	KNFY	2.490	NMY	2.670
FTNQ	13.395	HI1A	6.240	JVM	10.740	KGPI	2.466	KIJK	3.994	KNFZ	2.490	NOB	2.670
FZR	16.200	HIAD	6.590	JVN	10.660	KGPI	1.712	KIJK	3.190	KNGA	2.490	NOB	2.698
FZS	18.342	HJA2	5.825	JVO	10.375	KGPK	2.466	KIIL	2.994	KNGB	2.490	NOF	2.670
FZS2	11.990	HJA3	7.685	JVP	7.510	KGPL	1.712	KIIL	3.190	KNGC	2.490	NOG	2.670
GAA	20.368	HJA3	8.790	JVQ	7.470	KGPM	2.466	KIIM	2.994	KNGD	2.490	NOJ	2.670
GAQ	18.970	HJA3	12.830	JVR	1.390	KGPN	2.466	KIIM	3.190	KNGE	1.712	NOM	2.670
GAS	18.304	HJA7	5.400	JVS	6.990	KGPO	2.450	KIIN	2.994	KNGF	2.422	NOP	2.670
GAU	18.620	HJB	14.930	JVT	6.590	KGPP	2.442	KIIN	3.190	KNGG	1.698	NOR	2.670
GAW	18.200	HJN	6.080	JVU	5.790	KGPP	1.712	KIIO	2.994	KNGH	2.474	NOR	2.698
GBA	13.984	HJP	7.465	JVV	5.730	KGPR	1.712	KIIO	3.190	KNGJ	2.490	NOU	2.670
GBB	13.500	HJY	9.930	JYK	13.600	KGPS	2.414	KIIP	3.093	KNKG	2.450	NOV	2.670
GBB	4.430	HJY	18.444	JYR	7.880	KGPW	2.406	KIIQ	2.150	KNGL	1.712	NOY	2.670
GBB	4.975	HJ1ABB	6.447	JYS	9.840	KGPP	2.442	KIIV	2.726	KNGM	2.450	NOZ	2.670
GBB	8.680	HJ1ABD	7.280	JYT	5.760	KGPY	1.574	KIIX	2.726	KNGN	2.490	OAX4D	5.780
GBB	12.780	HJ1ABE	6.115	JZA	15.980	KGpz	2.450	KIHY	2.726	KNGO	2.450	OAX4G	6.230
GBB	17.080	HJ1ABG	6.042	JZB	10.660	KGQ	2.986	KIJB	2.994	KNGP	2.430	OAI	18.600
GBB	10.770	HJ1ABH	6.300	JZC	5.830	KGX	2.632	KIJI	1.622	KNGT	2.450	OER2	6.072
GBB	12.150	HJ1ABJ	6.006	JZD	16.910	KGXU	1.622	KIJK	1.622	KNGU	2.414	OP1	20.040
GBU	12.240	HJ2ABA	6.170	JZE	13.020	KGXW	1.606	KIJO	1.622	KNQV	2.490	OPM	10.135
GBU	22.290	HJ2ABC	5.975	JZF	8.500	KGYA	3.387	KIJP	2.986	KNGR	2.490	ORG	19.200
GBW	14.440	HJ2ABD	5.980	JZG	6.330	KGYB	3.387	KIJR	2.986	KNIA	2.604	ORK	10.330
GBX	10.530	HJ3ABD	7.390	KAG	19.880	KGYC	3.387	KIJS	1.622	KNKG	3.410	OXY	6.060
GBX	16.150	HJ3ABF	6.200	KAY	14.980	KGYD	3.387	KIJU	2.986	KNKS	2.604	OXY	9.490
GBZW	4.413	HJ3ABH	6.012	KAZ	9.990	KGYE	3.387	KIJV	1.622	KNKU	2.604	OXY	15.300
GBZW	8.830	HJ4AB1	6.230	KBA	3.385	KGYF	3.387	KIJW	2.632	KNKY	2.604	PCJ	15.220
GBZW	13.320	HJ4ABC	11.700	KBAI	2.304	KGYG	3.387	KIJX	2.632	KNKY	2.604	PCK	18.400
GCA	9.710	HJ4ABE	5.900	KBAM	3.445	KGYH	3.387	KIJJ	2.728	KNLO	3.410	PCM	18.600

SHORT WAVE STATIONS BY CALLS

PCV	17.830	VE9CS	6.070	WIEX	2.102	WPDD	1.712	WPGW	2.382	W1XAL	6.040	YDG4	2.850
PDK	10.410	VE9DN	6.005	WIEX	2.390	WPDE	2.442	WPGX	2.466	W1XAL	11.790	YDG5	2.090
PDK	12.050	VE9BN	9.555	WIFI	2.738	WPDF	2.442	WPGZ	2.474	W1XAL	15.250	YDG6	1.900
PD1	6.445	VE9DR	6.005	WIR	4.276	WPDG	2.458	WPHA	2.466	W1XAL	21.460	YDG7	3.300
PE2	6.445	VE9DR	9.580	WIR	4.540	WPDH	2.442	WPHB	2.422	W1XH	2.110	YDH3	3.490
PHI	11.725	VE9EH	6.080	WIY	13.870	WPDI	2.430	WPHC	1.596	W1XK	9.570	YDH4	3.310
PHI	17.775	VE9GW	11.810	WJER	1.606	WPDJ	2.414	WPHD	2.458	W2XAF	15.330	YDH5	3.250
PLE	18.830	VE9HX	6.110	WJER	2.102	WPDK	2.450	WPHE	1.634	W2XAF	9.530	YDH6	3.130
PLF	17.850	VFJ	2.290	WJN	7.370	WPDL	2.442	WPHF	2.450	W2XBJ	4.550	YDH7	1.960
PLG	15.950	VIZ3	11.495	WKA	21.060	WPDM	2.430	WPHG	1.712	W2XBJ	10.370	YDH9	1.920
PLP	11.000	VK1	6.425	WKC	10.465	WPDN	2.382	WPHI	2.490	W2XBJ	13.900	YDI2	2.110
PLV	9.415	VK2ME	9.585	WKDT	1.630	WPDO	2.458	WPHJ	2.490	W2XBJ	17.940	YDJ2	2.890
PMA	19.345	VK3LR	5.678	WKDU	1.706	WPDP	2.474	WPHK	1.596	W2XE	6.120	YDJ3	2.870
PMB	20.606	VK3LR	9.580	WKEM	1.622	WPDR	2.422	WPHM	2.442	W2XE	11.830	YDJ4	1.840
PMC	18.135	VK3ME	9.503	WKEM	2.150	WPDS	2.430	WPHN	2.466	W2XE	15.270	YDK2	3.190
PMN	10.260	VKJ	9.750	WKF	4.253	WPDJ	2.490	WPHO	2.430	W3XAL	6.100	YDK3	2.910
PMY	5.140	VLK	8.095	WKF	19.220	WPDU	1.712	WPHP	2.466	W3XAL	17.780	YDK4	3.270
PNI	8.775	VLK	10.520	WKJ	9.460	WPDV	2.458	WPHQ	2.490	W3XAU	6.060	YDK5	2.710
PPQ	11.670	VLZ	7.960	WKK	21.410	WPDW	2.422	WPHS	1.634	W3XAU	9.590	YDK6	1.860
PPU	19.270	VLZ	7.980	WKL	8.940	WPDX	2.414	WPHU	1.634	W3XL	6.425	YDL2	4.810
PRADO	6.620	VPD	13.045	WKM	18.860	WPDY	2.414	WPHY	2.474	W3XL	17.310	YDL3	3.450
PRF5	9.505	VP3MR	7.080	WKN	19.820	WPDZ	2.490	WPHZ	2.482	W4XB	6.040	YDL4	3.410
PSA	21.069	VQJM	4.430	WKO	15.970	WPEA	2.382	WPSP	1.674	W7XK	3.493	YDL5	3.210
PSA	14.935	VQJM	8.830	WKP	6.950	WPEB	2.442	WQB	17.940	W8XA	1.682	YDL6	2.750
PSD	15.070	VQJP	4.430	WKU	14.830	WPEC	2.466	WQC	17.860	W8XAL	6.060	YDM2	3.320
PSF	14.690	VQJP	8.830	WKW	15.445	WPED	1.712	WQE	18.920	W8XK	6.140	YDN2	1.940
PSH	10.220	VQ7LO	6.060	WLA	18.350	WPEE	2.450	WQF	17.920	W8XK	9.570	YDN3	2.790
PSK	8.180	VUB	9.565	WLEB	1.646	WPEF	2.450	WQFA	2.466	W8XK	11.870	YD02	3.430
RAU	15.104	VUC	6.112	WLEZ	2.150	WPEG	2.450	WQFB	2.414	W8XK	15.210	YD03	3.290
RF	7.260	VUC	9.575	WLK	16.270	WPEH	1.712	WQFE	1.634	W8XK	17.780	YD04	3.180
RIM	7.626	VWY	8.975	WLL	17.900	WPEI	1.712	WQFG	2.450	W8XK	21.540	YD05	2.930
RIO	10.160	VWY	17.480	WMA	13.390	WPEJ	1.712	WQFH	2.450	W9XAA	6.080	YD06	2.770
RIR	5.040	VWZ	8.690	WMDZ	2.442	WPEK	2.430	WQFL	1.712	W9XAA	11.830	YD07	2.070
RIR	10.880	VWZ	8.693	WMEF	1.606	WPEL	1.666	WQFO	2.430	W9XAA	17.780	YD08	1.980
RKF	4.875	VWZ	8.700	WMEF	2.020	WPEM	2.466	WQFQ	2.442	W9XAK	2.050	YD09	1.880
RKF	6.870	VWZ	8.708	WMEF	2.102	WPEP	2.450	WQG	15.040	W9XBS	6.425	YDQ2	3.390
RKF	6.880	VXU	5.540	WMEF	2.760	WPEQ	1.570	WQH	18.880	W9XBU	1.634	YDQ3	3.350
RKF	6.900	VXV	5.540	WMEP	2.930	WPES	2.442	WQI	17.880	W9XF	6.100	YDQ4	3.230
RKF	9.750	VXW	5.540	WMEP	6.615	WPET	1.706	WQL	14.815	W9XF	6.425	YDQ5	2.950
RKF	12.500	VXX	5.405	WMEQ	6.615	WPEV	1.666	WQN	5.263	W9XQ	6.425	YDQ6	2.810
RKI	7.520	VYP	1.596	WMES	2.550	WPEW	1.666	WQN	5.505	XEBT	6.000	YDU2	3.370
RKI	15.040	VYP	1.668	WMEU	2.930	WPFA	1.712	WQN	5.825	XECR	7.380	YDU3	5.260
RKI	15.090	VYR	1.712	WMEU	6.615	WPFC	2.442	WQP	6.725	XECV	5.980	YDU4	2.830
RKK	6.135	VYW	2.416	WMEV	2.930	WPDF	2.430	WQQ	13.900	XGB	11.140	YDU5	1.850
RKK	12.270	VYZ	2.212	WMEV	6.615	WPFE	2.442	WQR	16.015	XGBD	9.580	YDV2	3.330
RNE	12.000	WAD	8.930	WMF	14.470	WPFQ	2.442	WQS	13.915	XGK	18.690	YID	4.470
ROI	5.490	WAW	12.930	WMJ	2.422	WPFH	2.414	WQU	13.855	XGL	7.960	YID	6.135
RPK	7.225	WCG	10.370	WMN	14.590	WPFI	2.414	WQV	14.800	XGN	16.380	YNA	14.480
RPT	5.995	WCK	2.414	WMO	2.414	WPFK	2.430	WQW	10.600	XGO	7.575	YNLF	6.714
RRD	8.225	WDB	6.718	WMP	1.666	WPFM	2.382	WQY	20.100	XGOX	6.000	Y1GG	6.450
R5B	5.375	WDG	4.535	WNA	9.170	WPFN	1.712	WRB	2.458	XGOX	9.500	YVQ	6.672
R5N	5.440	WDN	4.550	WNB	10.675	WPFO	2.474	WRDQ	2.474	XGOX	11.900	YVQ	13.337
RSZ	8.770	WDS	18.900	WNC	15.055	WPFJ	2.490	WRDR	2.414	XGOX	17.800	YVR	9.168
RTA	6.440	WEA	10.610	WND	4.098	WPFQ	2.474	WRDS	1.642	XGW	10.420	YVR	18.296
RTZ	7.275	WEB	6.935	WNEI	1.622	WPFS	2.458	WRJ	3.410	YBG	10.430	YV2RC	6.112
RV15	4.273	WEC	8.930	WNEI	2.150	WPFS	2.474	WST	3.410	YBZ	7.680	YV3RC	6.150
RV59	5.996	WEL	8.950	WNER	2.060	WPFT	2.442	WTDV	4.295	YCP	8.575	YV3RC	9.510
SRI	9.490	WEL	13.435	WNFP	2.422	WPFU	2.422	WTDW	4.295	YDA	3.040	YV4RC	6.375
SUV	10.055	WEM	7.400	WOA	6.755	WPFV	2.466	WTDX	4.295	YDA	6.040	YV5RMO	5.850
SUZ	13.810	WES	9.448	WOB	5.850	WPFW	2.466	WTR	6.385	YDA2	2.385	YV6RV	6.520
TFK	9.050	WET	9.470	WOF	9.750	WPFX	2.442	WTT	18.940	YDA3	1.640	YV10RS	5.720
TGF	14.545	WEY	1.630	WOG	4.253	WPFY	2.442	WVD	2.604	YDA4	1.550	ZB	6.750
TG1X	9.450	WEZ	6.928	WOK	10.550	WPFZ	2.442	WVD	5.995	YDA5	6.129	ZA	6.590
TG2X	5.940	WHER	2.202	WON	9.870	WPGA	2.466	WVD	6.618	YDA6	2.870	ZEB	6.590
TIEP	6.710	WHER	1.606	WOO	4.178	WPGB	2.466	WVAD	4.988	YDA7	3.270	ZFA	5.025
TIEP	13.415	WIED	1.566	WOO	4.753	WPGC	1.658	WVAJ	3.410	YDA8	1.510	ZFB	10.055
TIGPH	5.820	WIED	2.390	WOO	8.560	WPGD	2.458	WVAL	3.410	YDB	4.470	ZFD	10.335
TIN	14.545	WIEG	2.150	WOO	12.840	WPGG	1.596	WVAM	3.410	YDB2	2.450	ZFO	5.300
TIU	14.545	WIEH	1.622	WOO	17.120	WPGH	2.414	WVAO	3.410	YDB3	1.660	ZFS	4.512
TIPG	6.550	WIEK	1.646	WOU	2.506	WPGI	2.430	WWE	3.410	YDB4	1.615	ZGE	6.125
TIR	7.685	WIEK	2.190	WOX	2.590	WPGJ	2.414	WWG	3.410	YDB5	1.595	ZHI	6.060
TIRCC	6.550	WIEL	1.646	WOY	4.178	WPGK	2.466	WWH	3.410	YDB6	1.570	ZHJ	6.080
TYA	12.215	WIEL	2.190	WOY	4.753	WPLG	2.442	WWHJ	3.410	YDB7	1.530	ZLR	7.390
VAC	1.510	WIEO	1.606	WOY	8.560	WPGM	2.414	WWM	3.410	YDD2	1.630	ZLS	8.900
VAF	1.510	WIEO	2.020	WOY	12.840	WPGN	2.490	WWN	3.410	YDD3	1.585	ZLT	10.990
V8Q	2.350	WIEO	2.102	WOY	17.120	WPGO	2.490	WWR	3.410	YDE2	4.810	ZSS	19.890
V8Y	1.540	WIEO	2.760	WOZ	3.423	WPGP	2.442	WWZ	3.410	YDE3	2.910	ZSV	8.220
V8Y	1.650	WIEW	1.606	WO9	6.385	WPGQ	1.596	WXA	8.050	YDE4	2.415	ZSV	12.500
VE9AS	6.425	WIEW	2.102	WPDA	2.414	WPGS	2.490	WXH	2.604	YDE5	2.750	ZTJ	6.123
VE9BJ	6.090	WIEX	1.566	WPDB	1.712	WPGT	2.482	WXH	6.662	YDG2	3.470	ZP10	6.666
VE9CA	6.030	WIEX	1.606	WPDC	1.712	WPGV	1.712	WYBF	2.604	YDG3	3.150	ZP11	3.800

530 kilocycles (565.7)

CJKL ak 1000 Kirkland Lake, Ont. E—.....

540 kilocycles (555.2)

CJRM ak 1000 F Moose Jaw, Sask. M—7:30-23:00*

550 kilocycles (545.1)

CFNB ak 500	F (1)	Fredericton, N. B.	A—8:10-10:30*
KFUO ae 500	2 (1)	St. Louis, Mo.	C—7-8; 9:30-9:45; 12:15-12:45; 3-3:45*
KFYR ae 1000	N (5)	Bismarck, N. D.	C—7:00-24:00
KOAC ak 1000	.....	Corvallis, Ore.	P—9:00-21:00*
KSD ak 1000	2R	St. Louis, Mo.	C—8-9:15; 9:30-12:15; 12:45-15; 15:45-21; 22-1*
KTSA ak 1000	C (5)	San Antonio, Texas	C—6:30-24
WDEV ae 500	D	Waterbury, Vt.	E—7:00-17:00*
WGR ck 1000	C	Buffalo, N. Y.	E—7:00-1:00*
WKRC ak 1000	C	Cincinnati, Ohio	E—7:00-1:00*
WSVA ak 500	D	Harrisonburg, Va.	E—7:00-ss*

560 kilocycles (535.4)

KFDM ak 500	(1)	Beaumont, Texas	C—7:15-14:00; 16:00-22:00
KLZ ae 1000	C	Denver, Colo.	M—6:30-24:00*
KSFO ak 1000	.....	San Francisco, Calif.	P—7:30-1:00*
KWTO ak 5000	D	Springfield, Mo.	C—6:00-17:45*
WFIL ak 1000	B	Philadelphia, Pa.	E—7:00-1:00*
WIND ak 1000	(5)	Gary, Ind.	C—7:00-24:00*
WNOX ak 1000	C (2)	Knoxville, Tenn.	C—6:45-23:30*
WQAM ae 1000	C	Miami, Fla.	E—7:00-24:00*
XEAO ak 250	(.15)	Mexicali, L. C.	P—8:00-22:00
XEFC ak 100	.....	Merida, Yuc.	C—.....

570 kilocycles (526.0)

KGKO ak 250	C (1)	Wichita Falls, Tex.	C—7:30-23:30*
KMTR ak 1000	.....	Hollywood, Calif.	P—6:45-23:30
KVI ak 1000	C	Tacoma, Wash.	P—6:00-24:00*
WKBN ae 500	1C	Youngstown, Ohio	E—7:30-1:00
WMCA ak 500	.....	New York, N. Y.	E—7:00-2:00
WNAX ak 1000	C (5)	Yankton, S. D.	C—6:00-24:00*
WOSU ak 750	I (1)	Columbus, Ohio	E—1:00-23:00
WSYR ak 250	B	Syracuse, N. Y.	E—7:00-1:00*
WWNC ak 1000	N	Asheville, N. C.	E—7:30-1:00*

580 kilocycles (516.9)

CFPR z 50	.....	Prince Rupert, B. C.	P—.....
CHRC ak 100	F	Quebec, Que.	E—8:30-14:00; 16:30-23:00*
CKCL ak 100	F	Toronto, Ont.	E—8:00-23:30
CKUA ak 500	.....	Edmonton, Alta.	M—13:00-15:15; 19-21
KMJ ak 1000	C	Fresno, Calif.	P—7:00-24*
KSAC ak 500	2 (1)	Manhattan, Kans.	C—9:30-10:30; 12:30-14:30
WCHS ak 500	(1)	Charleston, W. Va.	E—7:00-23:00
WDBO ae 1000	C	Orlando, Fla.	E—7:00-24:00
WIBW ak 1000	C2 (5)	Topeka, Kans.	C—5:30-9:30; 10:30-12:30; 14-16:30; 17:30-24*
WTAG ae 500	R	Worcester, Mass.	E—7:45-1:00*

590 kilocycles (508.2)

KHQ ak 1000	N (2.5)	Spokane, Wash.	P—6:45-24:00
WEEL ak 1000	R	Boston, Mass.	E—7:00-1:00*
WKZO ae 1000	D	Kalamazoo, Mich.	E—7:00-18:00*
WOW ae 1000	R (5)	Omaha, Neb.	C—6:30-00:30
XEPN ak 50000	.....	Piedras Negras, Coah.	C—5:00-8:00; 18:00-24:00*

600 kilocycles (499.7)

CFCF ae 400	FN	Montreal, Que.	E—8:00-24:00*
CJOR ak 500	.....	Vancouver, B. C.	P—7:30-23:15
CMW ak 1000	.....	Havana, Cuba	E—.....
CRCW z 500	F (1)	Windsor, Ont.	E—.....
FQN z 250	609	St. Pierre, Miquelon	L—.....
KFSD ae 1000	N	San Diego, Calif.	P—7:00-24:00*
WCAC ak 500	2	Storrs, Conn.	E—Silent

North American B. C. Stations by Frequencies with Saturday's Time on the Air

WCAO	ae	500	C (1)	Baltimore, Md.	E-7:00-24:00*
WICC	ae	500	2 C (1)	Bridgeport, Conn.	E-.....
WMT	ak	1000	B (2.5)	Cedar Rapids, Iowa	C-6:00-24:00*
WREC	ak	1000	C (2.5)	Memphis, Tenn.	C-7:00-24:00*

610 kilocycles (491.5)

KFRC	ck	1000	C (5)	San Francisco, Calif.	P-6:00-24:00*
WDAF	ak	1000	R (5)	Kansas City, Mo.	C-6:30-24:00*
WIP	ae	1000	....	Philadelphia, Pa.	E-7:00-1:00*
WJAY	ae	500	D	Cleveland, Ohio	E-6:00-17:15*
XFX	ak	1000	....	Mexico City, D. F.	C-.....

620 kilocycles (483.6)

KGW	ak	1000	N (5)	Portland, Ore.	P-7:00-24:00
KTAR	ae	1000	N	Phoenix, Ariz.	M-7:00-23:15*
WFLA	ak	1000	Na (5)	Clearwater, Fla.	E-7:00-24:00*
WHJB	ak	250	D	Greensburg, Pa.	E-7:00-17:00*
WLBZ	ak	500	C (1)	Bangor, Maine	E-8:00-24:00*
WSUN	ae	1000	Na (5)	St. Petersburg, Fla.	E-7:30-1:00
WTMJ	ae	1000	N (5)	Milwaukee, Wis.	C-6:45-00:30

630 kilocycles (475.9)

CFCO	ak	100	F	Chatham, Ont.	E-7:30-9:00; 11:00-13:30; 17:00-23:00
CFCY	ae	1000	F	Char't'w'n, P.E.I.	A-11:45-13:30; 17:30-23:30*
CJGX	ae	500	F	Yorkton, Sask.	C-8:00-14:00; 18:00-22:00
CKOV	ak	100	F	Kelowna, B. C.	P-8:00-22:30*
KFRU	ak	500	1 (1)	Columbia, Mo.	C-6:00-9:00; 14:00-ss; 19:00-22:00
KGFX	ak	200	D	Pierre, S. D.	C-9:30-11:00; 12:00-17:15*
WGBF	ak	500	1	Evansville, Ind.	C-7:00-19:00; 22:00-24:00
WMAL	ak	250	B (.5)	Washington, D. C.	E-7:00-1:00*
WOS	ak	500	1D	Jefferson City, Mo.	C-9:00-14:00
WPRO	ak	250	....	Providence, R. I.	E-7:30-24:00*
XEZ	z	500	....	Merida, Yuc.	C-.....

640 kilocycles (468.5)

CMBY	z	150	....	Havana, Cuba	E-.....
KFI	ah	50000	N	Los Angeles, Calif.	P-6:45-24:00*
WAIU	ae	500	....	Columbus, Ohio	E-6:15-17:30
WOI	ae	5000	D	Ames, Iowa	C-6:45-16:00
XEOX	ak	250	Saltillo, Coah.	C-.....

650 kilocycles (461.3)

WSM	ae	50000	N	Nashville, Tenn.	C-6:30-24:00*
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660 kilocycles (454.3)

CMCX	z	150	Havana, Cuba	E-.....
WAAW	ak	500	D	Omaha, Neb.	C-6:00-17:45*
WEAF	ak	50000	R	New York, N. Y.	E-6:45-1:00*

670 kilocycles (447.5)

WMAQ	ak	50000	N	Chicago, Ill.	C-7:00-1:00*
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680 kilocycles (440.9)

CMCQ	z	250	Havana, Cuba	E-.....
KFEQ	ak	2500	D	St. Joseph, Mo.	C-6:00-17:00*
KPO	ak	50000	N	San Francisco, Calif.	P-7:00-24:00*
VAS	akn	2000	685	Glace Bay, N. S.	A-23:00-23:10; 00:00-00:10*
VOWR	ck	500	681	St. John's, Nfld.	L-11:00-18:30
WPTF	ae	5000	DnN	Raleigh, N. C.	E-7:00-23:00*

690 kilocycles (434.5)

CFRB	ak	10000	C	Toronto, Ont.	E-8:00-24:00*
CJGJ	aj	100	F	Calgary, Alta.	M-7:30-16:30; 20:00-23:00*
NAA	akn	1000	....	Arlington, Va.	E-10:10-10:15; 11:55-12:00; 15:45-15:50; 21:55-22:05
XET	ak	500	....	Monterrey, N. L.	C-12:00-21:00*

700 kilocycles (428.3)

RDN	z	500	706	San Salvador, E. S.	L—.....
WLW	ak	50000	N	Cincinnati, Ohio	E—6:30-2:00*

710 kilocycles (422.3)

KIRO	ae	500	.....	Seattle, Wash.	P—5:30-ss; 22:00-4:00
KMPC	ak	500	.....	Beverly Hills, Calif.	P—6:00-18:00; 21:00-1:00*
WOR	ak	50000	.....	Newark, N. J.	E—6:45-9:30*
XEN	ak	1000	Mexico City, D. F.	C—9:00-12:00; 13:00-16:00; 17:00-24:00

720 kilocycles (416.4)

WGN	ak	50000	Chicago, Ill.	C—7:00-2:30
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730 kilocycles (410.7)

CFPL	ak	100	F	London, Ont.	E—8:15-10:30; 12:00-13:30; 17:00-23:30
CJCA	ah	1000	F	Edmonton, Alta.	M—7:30-13:30; 16:30-1:00
CKAC	ck	5000	C	Montreal, Que.	E—7:30-1:00*

740 kilocycles (405.2)

KMMJ	ae	1000	D	Clay Center, Neb.	C—5:00-18:00*
KTRB	ak	250	D	Modesto, Calif.	P—6:00-17:30*
WHEB	ak	250	D	Portsmouth, N. H.	E—9:00-17:30*
WSB	ah	50000	N	Atlanta, Ga.	C—6:55-24:00*

750 kilocycles (399.8)

CMCW	dk	150	.....	Havana, Cuba	E—.....
KGU	aj	25000	N	Honolulu, T. H.	L—6:30-22:30*
WJR	ak	50000	C	Detroit, Mich.	E—6:00-24:00*
XEAM	z	7.5	.....	Matamoros, Tams.	C—.....

760 kilocycles (394.5)

CMHX	ak	500	(.15)	Cienfuegos, Cuba	E—8:00-22:00*
KXA	ae	250	(.5)	Seattle, Wash.	P—6:30-ss; 22:00-1:00*
WBAL	ae	10000	BSy	Baltimore, Md.	E—.....
WEW	ae	1000	D	St. Louis, Mo.	C—6:00-ss*
WJZ	ak	50000	BSy	New York, N. Y.	E—8:00-1:00*
XEOK	z	250	.....	Tijuana, L. C.	P—.....

770 kilocycles (389.4)

CMBS	ak	150	.....	Havana, Cuba	E—10:00-12:00; 15:30-18:00
KFAB	ak	10000	CSy	Lincoln, Neb.	C—6:00-24:00*
WBBM	ae	50000	CSy	Chicago, Ill.	C—6:50-2:15*

780 kilocycles (384.4)

CHWK	dk	100	F	Chilliwack, B. C.	P—11:45-22:30*
CKSO	ak	1000	F	Sudbury, Ont.	L—12:00-14:00; 17:00-23:00*
CMJK	ak	250	.....	Camaguey, Cuba	E—11:30-14:30; 17:00-22:45
KEHE	ak	500	2 (1)	Los Angeles, Calif.	P—6:00-10:00; 13:00-17:00; 20:00-4:00
KELW	ak	500	2	Burbank, Calif.	P—10:00-13:00; 17:00-20:00; 4:00-6:00
KFDY	ae	1000	D	Brookings, S. D.	C—12:30-14:00*
KFQD	ck	250	.....	Anchorage, Alaska	L—18:00-24:00
KGHL	ak	1000	N (2.5)	Billings, Mont.	M—8:00-23:00*
WEAN	ae	500	C	Providence, R. I.	E—7:45-1:00*
WMC	ak	1000	N (2.5)	Memphis, Tenn.	C—6:45-1:00
WTAR	ae	500	N (1)	Norfolk, Va.	E—7:00-24:00*
XEYZ	z	10000	.....	Mexico City, D. F.	C—10:00-23:00*

790 kilocycles (379.5)

CMOA	z	150	.....	Havana, Cuba	E—.....
KGO	ak	7500	N	San Francisco, Calif.	E—7:30-24:00*
WGY	ak	50000	R	Schenectady, N. Y.	E—6:45-1:00*

800 kilocycles (374.8)

HIX	ak	700	Santo Domingo, D.R.	L—11:30-13:00; 17:00-18:00*
WBAP	ak	50000	Na	Fort Worth, Tex.	C—6-7; 8:30-10:30; 12:30-15; 17:30-18:30; 19-22

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WFAA	ak	50000	Na	Dallas, Tex.	C—7-8:30; 10:30-12:30; 15-17:30; 18:30-19; 22-24
WTBO	ak	250	D	Cumberland, Md.	E—8:45-ss*

810 kilocycles (370.2)

CMCF	ak	250	815	Havana, Cuba	E—10:30-24*
CMHW	ak	100	....	Cienfuegos, Cuba	E—13:00-14:00; 17:00-21:00
WCCO	ae	50000	C	Minneapolis, Minn.	C—6:45-1:00
WNYC	ak	1000	D	New York, N. Y.	E—9:00-1 hour after ss
XFC	z	350	....	Aguascalientes, Ags.	C—.....

820 kilocycles (365.6)

WHAS	aj	50000	C	Louisville, Ky.	C—7:00-24:00*
XETW	dk	500	....	Mexico City, D. F.	C—12:00-24:00*

830 kilocycles (361.2)

KOA	ak	50000	N	Denver, Colo.	M—7:00-24:00*
WEU	ak	1000	D	Reading, Pa.	E—8:00-ss*
WHDH	ae	1000	Dn	Boston, Mass.	E—7:00-ss in Denver
WRUF	ae	5000	Dn	Gainesville, Fla.	E—8:00-18:45*

840 kilocycles (356.9)

CFQC	ak	1000	F	Saskatoon, Sask.	M—8:00-13:30; 17:30-23:00
CMQ	ak	500	....	Havana, Cuba	E—6:55-1:00*
CRCT	ak	5000	FN	Toronto, Ont.	E—6:45-24:00*
VOGY	ak	400	....	St. John's, Nfld.	L—10:00-11:30; 13:00-14:30; 18:00-21:00
XEP	z	500	....	Mexico City, D. F.	C—.....

850 kilocycles (352.7)

KIEV	ak	100	D	Glendale, Calif.	P—6:00-18:00*
TIEP	z	500	....	San Jose, C. R.	C—.....
WESG	ak	1000	C	Elmira, N. Y.	E—7:30-18:15*
WWL	ae	10000	C	New Orleans, La.	C—6:00-24:00*
XEFE	z	250	....	Nuevo Laredo, T.	C—.....

860 kilocycles (348.6)

WABC	ak	50000	C	New York, N. Y.	E—7:30-2:00*
WHB	ak	1000	D	Kansas City, Mo.	C—6:00-17:00*
XEMO	ak	5000	....	Tijuana, L. C.	P—7:00-1:00*

870 kilocycles (344.6)

WENR	ak	50000	Na	Chicago, Ill.	C—15:00-19:00; 00:00-1:00
WLS	ae	50000	Na	Chicago, Ill.	C—8:00-15:00; 19:00-24:00

880 kilocycles (340.7)

CFJC	ak	100	F	Kamloops, B. C.	P—7:30-10:30; 12:00-14:00; 18:00-21:00
CMBN	z	150	....	Havana, Cuba	E—.....
CRCO	ak	1000	F	Ottawa, Ont.	E—8:00-9:00; 11:50-14:00; 17:00-24:00*
KFKA	ak	500	2 (1)	Greeley, Colo.	M—5-7; 9-14; 16:30-19; 20:30-24*
KLX	ae	1000	....	Oakland, Calif.	P—8:00-23:00*
KPOF	ae	500	2	Denver, Colo.	M—7:30-9:00; 14:30-16:00; 19:00-20:30*
WCOC	ae	500	(1)	Meridian, Miss.	C—7:30-14:00; 17:00-22:30*
WGBI	ae	500	1	Scranton, Pa.	E—9:30-12:30; 13:30-16:30; 17:30-23:00
WPHR	ak	500	D	Petersburg, Va.	E—7:30-ss*
WQAN	ae	250	1	Scranton, Pa.	E—12:30-13:30; 16:30-17:30
WSUI	ae	500	(1)	Iowa City, Iowa	C—9:00-22:00*

890 kilocycles (336.9)

KARK	ak	250	(.5)	Little Rock, Ark.	C—6:00-22:00*
KFNF	ak	500	2 (1)	Shenandoah, Iowa	C—5:30-8:00; 11:00-16:00; 18:00-21:00*
KFPY	ak	1000	C	Spokane, Wash.	P—6:50-24:00*
KUSD	ae	500	2	Vermillion, S. D.	C—Irrregular
WBAA	ak	1000	D	W. Lafayette, Ind.	C—11:00-17:00*
WGST	ak	500	C (1)	Atlanta, Ga.	C—6:00-24:00*
WILL	ak	250	2 (1)	Urbana, Ill.	C—8:00-11:00; 16-18; 22-24
WJAR	ae	500	R	Providence, R. I.	E—8:00-1:00*
WMMN	ak	500	(1)	Fairmont, W. Va.	E—7:30-22:00*
XEW	ak	50000	....	Mexico City, D. F.	C—.....

900 kilocycles (333.1)

KGBU	ak	500	..	Ketchikan, Alaska	L.....
KHJ	ae	1000	C (5)	Los Angeles, Calif.	P-6:00-1:00*
KSEI	ck	250	(.5)	Pocatello, Idaho	M-7:30-23:00*
WBEN	ak	1000	R	Buffalo, N. Y.	E-7:00-1:00
WBLI	z	500	DP	New Haven, Conn.	E.....
WFMD	ah	500	DP	Frederick, Md.	E-7:00-ss*
WJAX	ae	1000	N (5)	Jacksonville, Fla.	E-7:00-1:00*
WKY	ae	1000	N	Oklahoma City, Ok.	C-6:45-00:30
WLBL	ak	2500	D	Stevens Point, Wis.	C-8:00-16:00*
WTAD	ak	500	D	Quincy, Ill.	C-7:00-ss*

910 kilocycles (329.6)

CJAT	ak	250	F	Trail, B. C.	P-7:00-24:00
CRMC	ak	5000	F	Montreal, Que.	E-5:00-24:00
XENT	ak	65000	....	Nuevo Laredo, Tams.	C-19:30-1:30*

920 kilocycles (325.9)

CMX	ae	650	....	Havana, Cuba	E-8:00-1:00
HHK	ae	1000	....	Port-au-Prince, Haiti	E.....
KFEL	ak	500	a	Denver, Colo.	M-6:00-1:00*
KOMO	ak	1000	N (5)	Seattle, Wash.	P-7:00-24:00*
KPRC	ak	1000	N (5)	Houston, Texas	C-6:30-24:00*
KVOD	ak	500	a	Denver, Colo.	M-6:00-24:00*
WAAF	ak	500	D	Chicago, Ill.	C-6:00-16:30*
WBSO	ae	500	D	Babson Park, Mass.	E-8:30-17:00*
WPEN	ak	250	(.5) 1	Philadelphia, Pa.	E-7:30-22:00*
WRAX	ak	250	1 (.5)	Philadelphia, Pa.	E-7:30-22:00*
WSPA	ae	1000	D	Spartanburg, S. C.	E-6:00-19:30*
WWJ	ak	1000	R	Detroit, Mich.	E-7:00-24:00*
XEAA	ak	200	....	Mexicali, L. C.	P-6:00-22:00*

930 kilocycles (322.4)

CFAC	ak	100	F	Calgary, Alta.	M-7:00-23:00*
CFCH	ak	100	F	North Bay, Ont.	E-12:00-14; 17:30-23:00*
CFLC	ae	100	....	Prescott, Ont.	E-8:00-10:00; 12-14; 17-19:30
CHNS	ae	1000	F	Halifax, N. S.	A-6:00-24:00
CKPC	ae	100	F	Brantford, Ont.	E-7:00-24:00*
CKPR	ak	100	F	Fort William, Ont.	E.....
KGBZ	ak	1000	2 (2.5)	York, Neb.	C-7:30-9:30; 11-12:30; 14-15:30; 17-18:30; 20:30-23
KMA	ak	1000	2 (2.M)	Shenandoah, Iowa	C-9:30-11; 12:30-14; 15:30-17; 18:30-20:30
KROW	ak	500	(1)	Oakland, Calif.	P-6:00-2:00*
TIRH	z	50	....	San Jose, C. R.	C.....
WBRC	ak	1000	C	Birmingham, Ala.	C-7:00-23:00*
WDBJ	ae	1000	C	Roanoke, Va.	E-7:00-24:00*

940 kilocycles (319.0)

CMBC	djl	500	....	Havana, Cuba	E-9:00-00:30*
KOIN	ak	1000	C (5)	Portland, Ore.	P-6:30-24:00*
VOAS	ak	100	....	St. John's, Nfld.	L-11-12:30; 16-17:30; 19:45-21:30
WAAT	ae	500	D	Jersey City, N. J.	E-6:30-18:00*
WAVE	bk	1000	N	Louisville, Ky.	C-7:00-24:00*
WCSE	ae	1000	R (2.5)	Portland, Maine	E-7:45-24:00*
WDAY	ae	1000	N (5)	Fargo, N. D.	C-7:00-24:00*
WHA	ak	1000	D (5)	Madison, Wis.	C-8:00-16:30*
XEFO	ak	5000	(XF0)	Mexico City, D. F.	C-7:00-24:00*

950 kilocycles (315.6)

CRCS	ak	100	F	Chicourtmi, Que.	E-17:00-23:00*
KFWB	ak	1000	(2.5)	Hollywood, Calif.	P-7:00-23:30*
KHSL	ak	250	D	Chico, Calif.	P-7:00-ss*
KMBC	ae	1000	C (5)	Kansas City, Mo.	C-5:55-24:00*
WRC	ak	500	R (1)	Washington, D. C.	E-7:00-1:00*
YNVA	z	30	....	Managua, Nic.	C.....

960 kilocycles (312.3)

CKY	ak	15000	F	Winnipeg, Man.	C-8:00-14; 16-24*
CMCD	ak	250	....	Havana, Cuba	E-11:00-24:00*
XEAW	ak	50000	....	Reynosa, Tams.	C-19:00-10:00*

970 kilocycles (309.1)

KJR	ak	5000	N	Seattle, Wash.	P-7:30-24:00*
WCFL	ae	5000	B	Chicago, Ill.	C-7:00-24:00*
WIBG	ak	100	D	Glenside, Pa.	E-6:00-ss*

980 kilocycles (303.9)

KDKA	ae	50000	B	Pittsburgh, Pa.	E-7:00-1:00*
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990 kilocycles (302.8)

WBZ	ak	50000	BSy	Boston, Mass.	E-7:00-1:00*
WBZA	ak	1000	BSy	Springfield, Mass.	E-7:00-1:00*
XEAF	ak	500	....	Nogales, Sonora	M-9:00-13; 18-22*
XEK	ak	100	....	Mexico City, D. F.	C-11:00-16; 18:00-2:00*
XES	dk	250	....	Tampico, Tams.	C-9:30-14:30; 17-22; 1:00-2:30*

1000 kilocycles (299.8)

CMBZ	ak	250	....	Havana, Cuba	E-7:00-24:00*
KFVD	ak	250	Dn	Los Angeles, Calif.	P-6:30-ss; 22-24*
TIGH	z	500	....	San Jose, C. R.	C-.....
WHO	ak	50000	R	Des Moines, Iowa	C-6:30-7:15; 12:45-17; 18:30-22:30
KEY	z	10	....	Merida, Yuc.	C-.....

1010 kilocycles (296.9)

CHML	ak	100	F	Hamilton, Ont.	E-8:00-23:00*
CHWC	ak	500	3F	Regina, Sask.	M-7:00-9:00; 10-11; 12-13; 15:30-24
CKCD	ak	100	....	Vancouver, B. C.	P-7:30-23:30*
CKCK	ak	500	3F	Regina, Sask.	M-9-10; 11-12; 13:30-15:30
CKCO	ak	100	F	Ottawa, Ont.	E-12-14; 18-23*
CKIC	ak	50	....	Wolfville, N. S.	A-18:00-19:00
CKWX	ak	100	F	Vancouver, B. C.	P-7:00-19:30; 23:30-1:00
CMJA	ak	300	....	Camaguey, Cuba	E-12:00-22:00*
KGGF	ak	1000	2	Coffeyville, Kans.	C-7:00-14; 16:30-21:30
KQW	ak	1000	....	San Jose, Calif.	P-6:30-24:00*
TIGA	z	30	1014	Cartago, C. R.	C-.....
WHN	ae	1000	(5)	New York, N. Y.	E-8:00-1:00*
WIS	ae	500	N (1)	Columbia, S. C.	E-7:30-24:00*
WNAD	ae	1000	2 (1)	Norman, Okla.	C-Silent
XEU	ak	250	....	Veracruz, Ver.	C-7:00-8:00; 22:00-23:00

1020 kilocycles (293.9)

KYW	ak	10000	R	Philadelphia, Pa.	C-8:00-1:00*
XEJ	ak	1000	....	Juarez, Chih.	C-10:00-14:00; 17-23:30*

1030 kilocycles (291.1)

CFCN	ak	10000	....	Calgary, Alta.	M-7:00-23:00
CKLW	ag	5000	....	Windsor, Ont.	E-7:00-1:00*
CMCY	ak	1000	....	Havana, Cuba	E-.....
XEB	ak	10000	....	Mexico City, D. F.	C-9:00-24:00*

1040 kilocycles (288.3)

KRLD	ae	10000	C	Dallas, Texas	C-6:30-24:00
KWJJ	ak	500	....	Portland, Ore.	P-7:00-ss; 21-3:00*
WKAR	ae	1000	D	East Lansing, Mich.	E-12-12:30; 14-17*
WTIC	ah	50000	R	Hartford, Conn.	E-7:00-24:00*

1050 kilocycles (285.5)

CMKD	ak	250	....	Santiago, Cuba	E-7:30-22:30*
CRCK	ak	1000	F	Quebec, Que.	E-16:30-24*
KFBI	ak	5000	Dn	Abilene, Kans.	C-6:45-19:30*
KNX	ak	50000	....	Hollywood, Calif.	P-7:00-24:00*
TIFA	z	75	....	San Jose, C. R.	C-.....

1060 kilocycles (282.8)

CMK	ae	250	....	Havana, Cuba	E-11-13; 19-24*
KTHS	ae	10000	N	Hot Springs, Ark.	C-8-13; 15-17; 20-23*

North American B. C. Stations by Frequencies with Saturday's Time on the Air

VOAC	z	40	1065	St. John's, Nfld.	L—
WBAL	ak	10000	B	Baltimore, Md.	E—7:00-24:00*
WJAG	ak	1000	D	Norfolk, Neb.	C—7:00-ss*
XEA	ak	125	....	Guadalajara, Jal.	C—8:30-9; 18-23*

1070 kilocycles (280.2)

CMHA	z	50	....	Sagua la Grande, C.	E—
KJBS	ak	500	Dn	San Francisco, Calif.	P—22:00-21:00*
WCAZ	ak	100	D	Carthage, Ill.	C—9:30-15:30*
WDZ	ak	100	D	Tuscola, Ill.	C—8:00-16:00*
WTAM	ak	50000	R	Cleveland, Ohio	E—6:30-1:00*

1080 kilocycles (277.6)

WBT	ak	50000	C	Charlotte, N. C.	E—6:45-24:00*
WCBD	ak	5000	1Dny	Waukegan, Ill.	C—7:30-10:30; 13-15
WMBI	ak	5000	1Dn	Chicago, Ill.	C—7:00-7:30; 10:30-13; 15-16:30*
XEMA	z	50	Tampico, Tams.	C—

1090 kilocycles (275.1)

KMOX	ak	50000	C	St. Louis, Mo.	C—5:30-24:00*
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1100 kilocycles (272.6)

CRCV	ak	500	F	Vancouver, B. C.	P—5:30-23:00*
KGDM	ak	1000	D	Stockton, Calif.	P—6:00-ss*
KWKH	ae	10000	C	Shreveport, La.	C—
WLWL	ae	5000	I	New York, N. Y.	E—6:00-20:00
WPG	ak	5000	1C	Atlantic City, N. J.	E—8:30-18; 20-00:30
XEL	z	250	....	Mexico City, D. F.	C—

1110 kilocycles (270.1)

CMCO	ak	250	....	Havana, Cuba	E—9:00-24:00*
KSOO	ak	2500	Dn	Sioux Falls, S. D.	C—6:30-18:30*
WRVA	ae	5000	N	Richmond, Va.	E—7:00-24:00*
XELO	z	10000	....	Piedras Negras, Co.	C—

1120 kilocycles (267.7)

CHLP	ak	100	F	Montreal, Que.	E—8:00-23:00*
CHSJ	ae	500	F (1)	St. John, N. B.	A—6:00-7:45; 17-24
CKOC	ae	500	F (1)	Hamilton, Ont.	E—8:00-24:00*
CKX	ak	100	F	Brandon, Man.	C—11:30-12:30; 19-22:30
CMGF	dk	100	....	Matanzas, Cuba	E—15-17; 20-22:30*
CMKM	ak	200	....	Manzanillo, Cuba	E—8:00-11:55; 19-22*
KFIO	ae	100	D	Spokane, Wash.	P—6:00-17:00*
KFSG	ag	500	a (1)	Los Angeles, Calif.	P—6:30-7:15; 19:30-24
KRKD	aj	500	a (1)	Los Angeles, Calif.	P—7:45-19:30
KRSC	ak	100	D	Seattle, Wash.	P—6:00-ss*
WCOP	ak	500	D	Boston, Mass.	E—7:00-ss*
WDEL	ak	250	(.5)	Wilmington, Del.	E—9:00-24:00*
WGCM	ae	500	....	Mississippi City	C—8-14; 16-22:30*
WISN	ak	250	(1)	Milwaukee, Wis.	C—7:00-24:00*
WTAW	ae	500	....	College Station, Tex.	C—12:20-12:50

1130 kilocycles (265.3)

CMJI	ak	50	....	Ciego de Avila, Cuba	E—
KSL	ae	50000	C	Salt Lake City, Utah	M—6:30-24:00*
WJJD	ak	20000	Dn	Chicago, Ill.	C—6:00-18:45*
WOV	ag	1000	D	New York, N. Y.	E—8:00-18:00*

1140 kilocycles (263.0)

CMBG	z	200	....	Havana, Cuba	E—
KVOO	ak	25000	IN	Tulsa, Okla.	C—6:00-ss; 21-1:00
WAPI	ae	5000	IN	Birmingham, Ala.	C—

1150 kilocycles (260.7)

CMJF	z	200	....	Camaguey, Cuba	E—
WHAM	ae	50000	B	Rochester, N. Y.	E—7:30-00:30*

North American B. C. Stations by Frequencies with Saturday's Time on the Air

XED	ak	2500	1155	Guadalajara, Jal.	C-8:00-9:00; 12:00-24:00*
XEH	ak	250	.....	Monterrey, N. L.	C-9:00-21:00*
XEWZ	ak	100	.....	Mexico City, D. F.	C-12:00-1:00*

1160 kilocycles (258.5)

CMHJ	z	100	.....	Cienfuegos, Cuba	E-11:00-13:00; 17:00-21:00*
WOWO	ae	10000	1C	Fort Wayne, Ind.	C-7:00-18:30
WVVA	ak	5000	1C	Wheeling, W. Va.	E-6:00-2:00
XEC	z	30	.....	Tijuana, L. C.	P-.....

1170 kilocycles (256.3)

CMBD	z	150	.....	Havana, Cuba	E-.....
WCAU	ae	50000	C	Philadelphia, Pa.	E-8:00-1:00*

1180 kilocycles (254.1)

CMJO	ak	50	.....	Ciego de Avila, Cuba	E-9:00-13; 18-22*
KEX	ak	5000	2N	Portland, Ore.	P-6:30-17:30; 20-24*
KOB	ak	10000	2	Albuquerque, N. M.	M-11:00-21:00*
V99EK	ak	10	1185	Montmagny, Que.	E-.....
WDGY	ak	1000	Dn (5)	Minneapolis, Minn.	C-6:30-18:30*
WINS	ak	1000	.....	New York, N. Y.	E-6:00-19:30*
WMAZ	ak	1000	.....	Macon, Ga.	E-7:00-19:30*
XEFA	z	500	.....	Mexico City, D. F.	C-.....

1190 kilocycles (252.0)

CMKV	z	50	.....	Santiago, Cuba	E-.....
HJ	z	15	1195	Santo Domingo, D.R.	E-.....
VONF	ak	500	1195	St. John's, Nfld.	L-12:00-14:00; 18-20; 21:30-23
WATR	ak	100	D	Waterbury, Conn.	E-9:00-17:15*
WOAI	ak	50000	N	San Antonio, Texas	C-6:55-23:30*
WSAZ	ak	1000	.....	Huntington, W. Va.	E-7:00-19:15

1200 kilocycles (249.9)

CHAB	ak	100	F	Moose Jaw, Sask.	M-7:00-22:00*
CKNX	ak	50	.....	Wingham, Ont.	E-11-13; 17-21*
CKTB	ae	100	F	St. Catharines, Ont.	E-10-24:00*
CMCJ	ak	350	.....	Havana, Cuba	E-.....
KADA	ak	100	D	Ada, Okla.	C-7:00-17:45*
KBTM	ak	100	D	Jonesboro, Ark.	C-8:30-18:30*
KFJB	ak	100	(.25)	Marshalltown, Iowa	C-6:00-21:00*
KFXD	ae	100	(.25)	Nampa, Idaho	M-7:00-21:00*
KFXJ	ak	100	(.25)	Grand Junction, Col.	M-9:00-21:00*
KGDE	ak	100	(.25)	Fergus Falls, Minn.	C-7:00-21:00*
KGEK	ak	100	.....	Sterling, Colo.	M-11:30-13:30
KGFJ	ae	100	.....	Los Angeles, Calif.	P-24 hours daily
KGHI	ak	100	(.25)	Little Rock, Ark.	C-8:00-13; 15-22*
KMLB	ak	100	.....	Monroe, La.	C-.....
KSUN	ak	100	D	Lowell, Ariz.	M-9:00-17:45*
KVOS	dk	100	.....	Bellingham, Wash.	P-6:00-24:00*
KWG	ak	100	C	Stockton, Calif.	P-7:00-24:00*
WABI	ak	100	.....	Bangor, Maine	E-9:00-14; 18-22*
WAIM	ak	100	.....	Anderson, S. C.	E-7:30-21:30*
WBBZ	ak	100	.....	Ponca City, Okla.	C-6:30-21:45*
WBNO	ak	100	1	New Orleans, La.	C-12-17; 20-23*
WCAT	ak	100	D	Rapid City, S. D.	C-12:30-13:30
WCAX	ak	100	.....	Burlington, Vt.	E-12:00-1:00*
WCLO	ak	100	.....	Janesville, Wis.	C-7:00-20:00*
WCPO	ak	100	(.25)	Cincinnati, Ohio	E-7:30-23:00*
WFAM	ak	100	8	South Bend, Ind.	C-6:30-24:00*
WHBC	ak	100	(.25)	Canton, Ohio	E-7:00-9:00; 12-15; 18-21*
WHBY	ak	100	(.25)	Green Bay, Wis.	C-7:00-22:00*
WIBX	aej	100	(.3) C	Utica, N. Y.	E-7:00-1:00*
WIL	ak	100	(.25)	St. Louis, Mo.	C-7:00-24:00*
WJBC	ak	100	6	Bloomington, Ill.	C-9:00-12:30; 15-19:30*
WJBL	ak	100	6	Decatur, Ill.	C-6:30-9; 12:30-15; 19:30-24*
WJWB	ak	100	1	New Orleans, La.	E-8:00-12:00; 17-20*
WKBO	ak	100	3 (.25)	Harrisburg, Pa.	C-7:30-11; 15-18; 20-23*
WKJC	ae	100	3 (.25)	Lancaster, Pa.	E-11:00-15; 18-20*
WLVA	ak	100	(.25)	Lynchburg, Va.	E-7:00-14; 17-22*
WMFR	ae	100	PD	High Point, N. C.	E-7:00-ss*
WMPC	ak	100	(.25)	Lapeer, Mich.	E-Silent
WNRI	ak	100	(.25) P	Newport, R. I.	E-.....
WRBL	ak	100	.....	Columbus, Ga.	C-7:00-21:00*
WWAE	ae	100	8	Hammond, Ind.	C-7:00-8:30; 11-13; 16-24

1210 kilocycles (247.8)

CJGS	z	50	....	Stratford, Ont.	E-9:00-13:30; 16:30-22*
CJCU	z	50	....	Aklavik, N. W. T.	P-20:30-21:30*
CKBI	ak	100	F	Prince Albert, Sask.	M-8:00-13:30; 17-23*
CKCH	ak	100	F	Hull, Que.	E-8-9; 10:30-13:15; 17-23:15
CKMC	ak	50	....	Cobalt, Ont.	E-.....
CMHI	ak	150	....	Santa Clara, Cuba	E-11-12; 20-21*
KASA	ck	100	....	Elk City, Okla.	C-6-8; 9-13:30; 14:30-20*
KDLR	ak	100	....	Devils Lake, N. D.	C-6:30-16; 18-20:30*
KDON	z	100	P	Del Monte, Calif.	P-.....
KFJI	ak	100	....	Klamath Falls, Ore.	P-8:30-21:00*
KFOR	ae	100	(.25)C	Lincoln, Neb.	C-7:00-23:00*
KFPW	ak	100	....	Fort Smith, Ark.	C-6:30-14; 17-21:30*
KFVS	ak	100	6 (.25)	Cape Girardeau, Mo.	C-9:00-12; 16-19:30; 21-24
KFXM	ak	100	9	San Bernardino, Cal.	P-9:00-12:45; 18-22*
KGY	ak	100	....	Olympia, Wash.	P-7:00-23:00*
KIEM	ak	100	....	Eureka, Calif.	P-7:30-22:00*
KIUL	ak	100	....	Garden City, Kans.	M-6:00-20:45
KPPC	ak	50	9	Pasadena, Calif.	P-Silent
KVSO	ak	100	0	Ardmore, Okla.	C-7:00-18:00*
KWEA	z	100	....	Shreveport, La.	C-.....
KWTN	ak	100	....	Watertown, S. D.	C-7:00-21:00*
TGW	ak	10000	....	Guatemala City	C-11-13; 18:30-5
WALR	ak	100	....	Zanesville, Ohio	E-.....
WBAX	ae	100	....	Wilkes Barre, Pa.	E-7:30-12; 18-24
WBBL	ak	100	S	Richmond, N. J.	E-Silent
WBRB	ak	100	3	Red Bank, N. J.	E-17:00-19:00
WCOL	ak	100	....	Columbus, Ohio	E-7:00-23:00*
WCRW	ae	100	4	Chicago, Ill.	C-11-14; 17-19*
WEBQ	ae	100	6 (.25)	Harrisburg, Ill.	C-6-9; 12-16; 19:30-21
WEDC	ae	100	4	Chicago, Ill.	C-8:30-10; 15:30-17; 0-2
WFAS	ak	100	....	White Plains, N. Y.	E-9-11:30; 15-17; 19-22
WGBW	ae	100	3	Freeport, N. Y.	E-Silent
WGNY	ak	100	3	Chester, N. Y.	E-6:45-9; 11:30-15
WHBF	ak	100	(.25)	Rock Island, Ill.	C-7:30-23:00*
WHBU	ak	100	(.25)	Anderson, Ind.	C-6:30-24:00*
WIBU	ak	100	(.25)	Poynette, Wis.	C-7:00-19:00*
WJBY	ak	100	....	Gadsden, Ala.	C-9:00-21:00*
WJEL	ae	100	D	Hagerstown, Md.	E-6:30-23:00
WJIM	z	100	(.25)	Lansing, Mich.	E-.....
WJW	ae	100	(.25)	Akron, Ohio	E-9:00-23:00*
WKOK	ak	100	1	Sunbury, Pa.	E-12:00-18:00
WMBG	ak	100	C (.25)	Richmond, Va.	E-7:00-24:00*
WMFG	z	100	....	Hibbing, Minn.	C-.....
WMFN	ak	100	....	Clarksdale, Miss.	C-7:00-21:00*
WOCL	ak	50	....	Jamestown, N. Y.	E-10:30-22:30*
WOMT	ak	100	....	Manitowoc, Wis.	C-7:00-21:00*
WPAX	ak	250	D	Thomasville, Ga.	E-7:00-ss*
WSBC	ae	100	4	Chicago, Ill.	C-6-8:30; 10-11; 14-15:30; 20-22; 23-24*
WSIX	ak	100	....	Springfield, Tenn.	C-6:00-14:30; 17-20:30*
WSOC	ak	100	N (.25)	Charlotte, N. C.	E-7:00-24:00*
WTAX	ak	100	....	Springfield, Ill.	C-7:00-22:30*
XEE	z	50	....	Durango, Dgo.	C-.....
XEFV	ak	100	....	Juarez, Chih.	M-8:00-15; 17-22*
XEMZ	z	250	....	Tijuana, L. C.	P-.....
XETH	ak	100	....	Puebla, Pue.	C-8:30-11; 13-15; 19-24
.....	z	100	DP	Rochester, N. Y.	E-.....

1220 kilocycles (245.8)

CMJE	z	50	....	Camaguey, Cuba	E-.....
KFKU	ae	1000	a (5)	Lawrence, Kas.	E-14:30-15; 18-18:15
KTW	ak	1000	S2	Seattle, Wash.	P-Silent
KWSC	ae	1000	2 (5)	Pullman, Wash.	P-6:45-8; 10:30-21:30
WCAD	ak	500	D	Canton, N. Y.	E-12:30-13:30; 15-16*
WCAE	ak	1000	R (5)	Pittsburgh, Pa.	E-6:45-1:00*
WDAE	ae	1000	C (2.5)	Tampa, Fla.	E-8:00-24:00*
WREN	ak	1000	Ba (5)	Lawrence, Kas.	C-7:00-24:00*
XETF	ak	12	....	Veracruz, Ver.	C-10:00-15:00; 18:30-23:00*

1230 kilocycles (243.8)

CJOC	ak	100	F	Lethbridge, Alta.	M-7:30-22:30
CMCB	ak	150	....	Havana, Cuba	E-10:00-23:00*
KGBX	ak	500	....	Springfield, Mo.	C-7:00-13; 16-23*
KGGM	ak	250	(.5)	Albuquerque, N. M.	M-7:00-14; 16-21*
KYA	ak	1000	N	San Francisco, Calif.	P-8:00-23:00*
WFBM	ae	1000	C	Indianapolis, Ind.	C-6:30-24:00*

North American B. C. Stations by Frequencies with Saturday's Time on the Air

WNAC	ak	1000	C (2.5)	Boston, Mass.	E—6:30-1:00*
XEFJ	ak	100	....	Monterrey, N. L.	C—11:00-14; 18-21:30*
YNOP	z	100	....	Managua, Nic.	C—.....

1240 kilocycles (241.8)

CJCB	ak	1000	F	Sydney, N. S.	A—10-14; 17:30-24*
CMHB	z	50	....	Sancti Spiritus, Cuba	E—.....
KGCU	ak	250	1	Mandan, N. D.	M—12:00-17; 18:45-21*
KLPM	ak	250	1	Minot, N. D.	C—7:00-13; 18-19:45; 22-23:30*
KTAT	ak	1000	....	Fort Worth, Texas	C—7:00-24:00*
KTFI	ae	1000	....	Twin Falls, Idaho	M—5:45-00:15*
WKAQ	ae	1000	....	San Juan, P. R.	A—11-14; 18-24
WXYZ	ak	1000	B	Detroit, Mich.	E—7:00-24:00*
XEAI	z	100	....	Mexico City, D. F.	C—.....
XEKL	z	50	....	Leon, Guan.	C—10:30-16; 17-23*
XELA	z	50	....	Saltillo, Coah.	C—.....

1250 kilocycles (239.9)

CMCG	ak	250	1255	Havana, Cuba	A—8:00-24:00*
CMCK	ak	150	....	Santiago, Cuba	E—8:00-14; 16-23*
KFOX	ae	1000	....	Long Beach, Calif.	P—5:30-24:00*
WCAL	ah	1000	2 (2.5)	Northfield, Minn.	C—9:45-10:16
WDSU	ak	1000	....	New Orleans, La.	C—7:00-24:00*
WHBI	ak	1000	a (2.5)	Newark, N. J.	E—Silent
WLB	ak	1000	2	Minneapolis, Minn.	C—19:00-20:00
WNEW	ae	1000	a (2.5)	Newark, N. J.	E—24 hours daily
WTCN	ak	1000	2 (5)	Minneapolis, Minn.	C—6:00-9:43; 10:16-19; 20-24

1260 kilocycles (238.0)

CFRN	ak	100	F	Edmonton, Alta.	M—7:30-24:00
KGVO	ak	1000	....	Missoula, Mont.	M—7:30-22:00*
KOIL	ak	1000	B (2.5)	Council Bluffs, Iowa	C—6:00-1:00*
KPCAC	ak	500	D	Port Arthur, Texas	C—6:00-ss*
KRGV	ak	500	....	Weslaco, Texas	C—7:00-21:00*
KUOA	ak	1000	D	Fayetteville, Ark.	C—6:00-10; 12-18*
KVOA	ak	500	....	Tucson, Ariz.	M—6-9; 12-15; 18-21
WHIO	ae	1000	R	Dayton, Ohio	E—.....
WNBX	ak	1000	....	Springfield, Vt.	E—7:15-17:45
WTOC	ae	1000	C	Savannah, Ga.	E—7:00-1:00*

1270 kilocycles (236.1)

CMHD	dk	250	....	Caibarien, Cuba	E—20:00-21:00
HRN	z	100	....	Tegucigalpa, Hond.	C—.....
KGCA	ak	100	2D	Decorah, Iowa	C—8:30-9:45; 10:45-11:30; 12:30-14:30*
KOL	ae	1000	C (2.5)	Seattle, Wash.	P—6:45-24:00*
KVOR	ae	1000	C	Colorado Spgs., Colo.	M—7:00-22:00*
KWLC	ak	100	2D	Decorah, Iowa	C—7:30-8:30; 9:45-10:45; 11:30-12:30; 14:30-15:30*
WASH	ak	500	aN	Grand Rapids, Mich.	E—7:00-24:00*
WFBP	ak	500	R	Baltimore, Md.	E—7:00-24:00*
WJDX	ae	1000	N (2.5)	Jackson, Miss.	C—7:00-23:00*
WOOD	ak	500	aN	Grand Rapids, Mich.	E—7:00-24:00*
XEG	z	200	....	Ensenada, L. C.	P—.....
XFB	ak	250	....	Jalapa, Ver.	C—8:00-9:00; 13-14:30; 20-23:30
YNLF	z	20	1275	Managua, Nic.	C—.....

1280 kilocycles (234.2)

CMCU	z	150	....	Havana, Cuba	E—12:00-18:00*
KFBB	ae	1000	(2.5)	Great Falls, Mont.	M—8:00-22:00*
WCAM	ae	500	1	Camden, N. J.	E—Silent
WCAP	ae	500	1	Asbury Park, N. J.	E—10:30-16; 20-21
WDOD	ak	1000	C (5)	Chattanooga, Tenn.	C—7:00-23:30*
WIBA	ae	1000	N (5)	Madison, Wis.	C—7:00-24:00*
WORC	ak	500	C	Worcester, Mass.	E—8:00-24:00*
WRR	ak	500	....	Dallas, Texas	C—7:00-23:00*
WTNJ	ak	500	1	Trenton, N. J.	E—8:00-8:30; 13-14; 17-20
XEMX	z	12	....	Mexico City, D. F.	C—.....

1290 kilocycles (232.4)

KDYL	ak	1000	N	Salt Lake City, Utah	M—6:20-1:00*
KLCN	ak	100	D	Blytheville, Ark.	C—8:00-18:00*

North American B. C. Stations by Frequencies with Saturday's Time on the Air

KTRH	ak	1000	C (5)	Houston, Texas	C-6:30-24:00*
WEBC	ae	1000	N (5)	Superior, Wis.	C-7:00-24:00*
WJAS	ak	1000	C (2.5)	Pittsburgh, Pa.	E-7:30-24:00
WNBZ	z	100	D	Saranac Lake, N. Y.	E-.....
WNEL	ak	500	....	San Juan, P. R.	E-7:00-9; 11-14:30; 16-24

1300 kilocycles (230.6)

HIZ	z	10	....	Santo Domingo, D.R.	E-.....
KALE	ak	500	3C	Portland, Ore.	P-7:00-10:30; 14:30-17; 18-19; 20-23
KFAC	ak	1000	D	Los Angeles, Calif.	P-24 hours daily
KFH	ak	1000	C	Wichita, Kans.	C-7:00-24:00*
KFJR	ag	500	3	Portland, Ore.	P-10:30-14:30; 17-18; 19-20
WBRR	ae	1000	1	Brooklyn, N. Y.	E-Silent
WEVD	ak	1000	1	New York, N. Y.	E-7:00-12; 15-21; 22-23; 24-1:00
WEAB	ae	1000	1	New York, N. Y.	E-9:00-10; 12-15; 21-22; 23-24*
WFBC	ak	1000	(5)	Greenville, S. C.	E-7:30-22:30*
WHAZ	ae	500	1	Troy, N. Y.	E-Silent
WIOD	ak	1000	N	Miami, Fla.	E-7:30-24:00*

1310 kilocycles (228.9)

CHCK	ak	50	....	Charlottetown, P.E.I.	A-12:00-13:30; 17:00-21:00
CJLS	ak	100	....	Yarmouth, N. S.	A-10-13; 17:30-19:30*
KCV	ak	100	F	Quebec, Que.	E-8:00-14; 17-23*
KCRJ	ak	100	D	Jerome, Ariz.	M-7:30-9:30; 12-13; 16:30-18
KFPL	dk	100	(.25)	Dublin, Texas	C-6:00-21:30*
KFXR	ak	100	(.25)	Oklahoma City, Ok.	C-6:00-24:00*
KFYO	dk	100	(.25)	Lubbock, Texas	C-7:00-21:15*
KGCX	ak	100	(.25)	Wolf Point, Mont.	M-7:30-9:30; 12-15; 18-19*
KGEZ	aj	100	....	Kalispell, Mont.	M-7:00-21:00*
KGFW	ak	100	....	Kearney, Neb.	C-7:00-13:30; 15:30-21*
KINY	ak	100	....	Juneau, Alaska	L-8:00-14; 16-22:00*
KIT	ak	100	(.25)	Yakima, Wash.	P-7:00-24:00
KIUJ	ak	100	....	Santa Fe, N. Mex.	P-7:00-13:30; 16:30-22*
KMED	ck	100	(.25)	Medford, Ore.	P-8:00-20:00*
KRMD	ak	100	....	Shreveport, La.	C-7:00-21:00*
KROC	z	100	P	Rochester, Minn.	C-.....
KTSM	ak	100	....	El Paso, Texas	M-6:30-22:30*
KVOL	ak	100	....	Lafayette, La.	C-7:00-14; 17-22*
KXRO	ak	100	....	Aberdeen, Wash.	P-7:30-22:00*
WBEO	ae	100	....	Marquette, Mich.	C-9:30-16:30*
WBOW	ak	100	(.25)	Terre Haute, Ind.	C-6:45-14; 16-23*
WBRE	ak	100	....	Wilkes Barre, Pa.	E-8:00-22:30
WCLS	ak	100	....	Joliet, Ill.	C-7:00-20:30
WCMI	z	100	D	Ashland, Ky.	E-6:30-24:00*
WDAH	ak	100	S	El Paso, Texas	M-Silent
WEBR	aeh	100	(.25)	Buffalo, N. Y.	E-7:00-24:00*
WEMP	z	100	PD	Milwaukee, Wis.	C-.....
WEXL	ak	50	....	Royal Oak, Mich.	E-8:00-4:00*
WFBC	ae	100	3	Altoona, Pa.	E-10:30-16:30; 18:15-21:15
WFDF	mk	100	....	Flint, Mich.	E-7:00-24:00*
WGH	aj	100	(.25)	Newport News, Va.	E-7:00-24:00
WHAT	ak	100	4	Philadelphia, Pa.	E-9:00-11:30; 13-16; 21-24
WJAC	ae	100	3	Johnstown, Pa.	E-8:00-10:30; 16:30-18:15; 21:15-24
WLBC	ak	50	6 (.1)	Muncie, Ind.	C-7:00-18:00; 19:30-23:00
WLNH	ak	100	....	Laconia, N. H.	E-8:00-23:00*
WMBO	ak	100	....	Auburn, N. Y.	E-8:00-20:00*
WMFF	ak	100	D (.25)	Plattsburg, N. Y.	E-8:00-16:00*
WNBH	ak	100	(.25) C	New Bedford, Mass.	E-7:45-23:30*
WOL	ak	100	....	Washington, D. C.	E-7:00-24:00*
WRAP	ak	100	....	Reading, Pa.	E-7:00-13; 16-22*
WROL	ak	100	(.25)	Knoxville, Tenn.	C-7:00-24:00*
WSAJ	ae	100	....	Grove City, Pa.	E-Football Game
WSGN	ak	100	(.25)	Birmingham, Ala.	C-7:00-21:00*
WSJS	ak	100	C	Winston-Salem, N.C.	E-8:00-24:00*
WTAL	ak	100	P	Tallahassee, Fla.	E-7:00-23:00*
WTEL	ce	100	4	Philadelphia, Pa.	E-7:00-9; 11:30-13; 16-21
WTJS	ak	100	(.25)	Jackson, Tenn.	C-7:00-13:45; 16-22
WTRC	ak	50	6 (.1)	Elkhart, Ind.	C-8:00-14; 17:30-19:30*
XEAJ	z	15	....	Oaxaca, Oax.	C-.....
XECW	z	10	....	Mexico City, D. F.	C-.....
XEFW	ak	250	....	Tampico, Tams.	C-9:00-11; 12-14:30; 17-21
XETB	ak	125	....	Torreón, Coah.	M-11:00-16; 18:30-21*
XEX	ak	125	....	Monterrey, N. L.	C-.....
XFA	z	5	....	Aguascalientes, Ags.	C-.....

1320 kilocycles (227.1)

CMOX	ak	250	....	Havana, Cuba	E-12:00-24:00*
KGHF	ak	500	....	Pueblo, Colo.	M-7:00-22:00*

North American B. C. Stations by Frequencies with Saturday's Time on the Air

KGMB ak 1000	C	Honolulu, T. H.	L—6:00-24:00
KID ae 250	(.5)	Idaho Falls, Idaho	M—9:00-21:00*
KRNT ak 500	C (1)	Des Moines, Iowa	C—6:00-24:00*
WADC ae 1000	C (2.5)	Akron, Ohio	E—8:00-24:00*
WORK ak 1000	....	York, Pa.	E—8:00-17:30*
WSMB ak 500	N	New Orleans, La.	C—7:00-1:00

1330 kilocycles (225.4)

CMHK z 250	....	Cruces, Cuba	E—10:00-11:30
KGB ag 1000	C (2.5)	San Diego, Calif.	P—7:00-1:00*
KMO ak 250	....	Tacoma, Wash.	P—6:45-23:00*
KSCJ aj 1000	1C (2.5)	Sioux City, Iowa	C—7:30-23:00*
WDRG ae 1000	C (2.5)	Hartford, Conn.	E—8:00-24:00*
WSAI ak 1000	R (2.5)	Cincinnati, Ohio	E—7:00-24:00*
WTAQ ae 1000	1	Eau Claire, Wis.	C—7:00-20:00

1340 kilocycles (223.7)

CMJL z 100	....	Camaguey, Cuba	E—.....
KGDY ak 250	D	Huron, S. D.	C—7:00-18:00*
KGIR ak 1000	N (2.5)	Butte, Mont.	M—8:00-23:00*
KGNO ak 250	....	Dodge City, Kans.	C—7:00-20:00*
WGOA ak 500	C	Pensacola, Fla.	C—7:30-23:00*
WFEA ae 500	C (1)	Manchester, N. H.	E—8:00-23:00*
WSPD ae 1000	C (2.5)	Toledo, Ohio	E—7:00-1:00*
XFD z 350	....	Jalapa, Ver.	C—.....

1350 kilocycles (222.1)

CMCA z 250	....	Havana, Cuba	E—12:00-14:00; 17:00-23:00*
KIDO ak 1000	(2.5)	Boise, Idaho	M—7:30-22:00*
KWK ak 1000	B (5)	St. Louis, Mo.	C—6:30-1:30*
WAWZ ae 500	1 (1)	Zarephath, N. J.	E—7:45-8:45; 17-18:30
WBNX ae 250	1	New York, N. Y.	E—6:00-7:30; 9-13

1360 kilocycles (220.4)

CMJH dk 100	....	Ciego de Avila, Cuba	E—8:00-9:30; 10-14; 17-22*
KCRK ak 250	....	Enid, Okla.	C—7:00-14; 16:30-23*
KGER ak 1000	....	Long Beach, Calif.	P—7:00-23:00*
WCSC ak 500	(1)	Charleston, S. C.	E—8:00-15:30; 17-22*
WFBL ak 1000	C (5)	Syracuse, N. Y.	E—7:00-1:00*
WGES ae 500	1	Chicago, Ill.	C—7:00-12; 15:30-20*
WQBC ak 1000	D	Vicksburg, Miss.	C—8:00-10; 12-17:30*
WSBT ak 500	1	South Bend, Ind.	C—6:30-24:00*

1370 kilocycles (218.8)

CKCW ak 100	F	Moncton, N. B.	A—8:00-9:30; 12-14; 17-24*
CMGE ak 50	....	Cardenas, Cuba	L—11:00-14; 18-22:30*
KAST ak 100	D	Astoria, Ore.	P—7:00-18:30*
KELD z 100	....	El Dorado, Ark.	C—.....
KERN ak 100	....	Bakersfield, Calif.	P—7:00-24:00*
KFGQ ak 100	....	Boone, Iowa	C—.....
KFJM ak 100	(.25)	Grand Forks, N. D.	C—8:00-20:00*
KFJZ ae 100	....	Fort Worth, Texas	C—7:00-23:00*
KFRO ak 100	D	Longview, Texas	C—6:00-ss*
KGAR ae 100	(.25)	Tucson, Ariz.	M—7:00-13; 16-22*
KGFG bk 100	....	Oklahoma City, Ok.	C—9:00-11; 14-19; 19:45-22*
KGFL ak 100	4	Roswell, N. M.	M—7:00-9:30; 12-13; 16-19:30*
KGKL ak 100	(.25)	San Angelo, Texas	C—8:00-21:30*
KICA ak 100	4	Clovis, N. M.	M—7:00-16:30; 19:30-21:30*
KIUF ak 100	P	Durango, Colo.	M—7:00-23:00*
KLUP z 100	(.25)	Galveston, Texas	C—.....
KMAC ak 100	5	San Antonio, Texas	C—7-8:30; 10-11; 12-13:30; 16-18; 19-20; 22-00:30*
KONO ak 100	5	San Antonio, Texas	C—6-7; 8:30-10; 11-12; 13:30-16; 18-19; 20-22*
KRE ak 100	(.25)	Berkeley, Calif.	P—24 hours daily
KRKO ak 50	1	Everett, Wash.	P—7:30-12; 16:30-20*
KSLM ak 100	....	Salem, Ore.	P—9:00-23:00
KULJ ak 100	....	Walla Walla, Wash.	P—6:30-22:00*
KVL ak 100	1	Seattle, Wash.	P—12:00-16:30; 19-22
KWKC ak 100	....	Kansas City, Mo.	C—6-9; 12-15; 18-21*
KWYO ak 100	....	Sheridan, Wyo.	M—7:00-24:00*
WABY aj 100	....	Albany, N. Y.	E—7:00-24:00*
WAGF ak 100	....	Dothan, Ala.	C—8:00-17:15*
WBNY z 100	2P (.25)	Buffalo, N. Y.	E—.....

North American B. C. Stations by Frequencies with Saturday's Time on the Air

WBTM	ak	100	(.25)	Danville, Va.	E-7:00-14; 17-22*
WCBM	ae	100	(.25)	Baltimore, Md.	E-.....
WDAS	ae	100	(.25)	Philadelphia, Pa.	E-7:30-24:00*
WGL	ae	100	C	Fort Wayne, Ind.	C-6:30-9:30; 11:45-13:30; 17-24*
WBBO	ak	100	.....	Memphis, Tenn.	C-7:55-14; 16-22:30*
WHDF	ak	100	(.25)	Calumet, Mich.	E-7:00-9; 11:30-13:30; 17:30-20:30*
WBIM	ak	100	(.25)	Jackson, Mich.	E-7:00-00:45*
WJTL	ak	100	.....	Atlanta, Ga.	E-6:30-24:00*
WLLH	ak	100	(.25)	Lowell, Mass.	E-7:30-24:00*
WMBR	ak	100	C (.25)	Jacksonville, Fla.	E-7:00-24:00*
WMFD	ak	100	D	Wilmington, N. C.	E-7:30-17:45*
WMFO	ak	100	D	Decatur, Ala.	E-7:00-17:15*
WOC	ak	100	C (.25)	Davenport, Iowa	C-7:00-24:00*
WFAY	ak	100	.....	Portsmouth, Ohio	E-8:00-11:30; 12-21*
WFB	ak	100	.....	Hattiesburg, Miss.	C-7:00-21:00*
WODM	ae	100	D	St. Albans, Vt.	E-.....
WRAC	ak	100	(.25)	Williamsport, Pa.	E-7:30-20:00*
WRDO	ae	100	.....	Augusta, Maine	E-8:00-23:30*
WRJN	ak	100	(.25)	Racine, Wis.	C-7:45-22:45*
WSVS	ak	50	D2	Buffalo, N. Y.	E-8:30-10:00
XEZ	ak	100	.....	Mexico City, D. F.	C-18:00-1:00*
XEI	ak	125	.....	Morelia, Mch.	C-14:00-15:30; 21:00-22:00*
XZZ	z	100	.....	San Luis Potosi, SLP	C-9:30-15; 17-22*

1380 kilocycles (217.3)

CMBX	ak	150	.....	Havana, Cuba	E-.....
KOH	ak	500	C	Reno, Nev.	P-8:00-24:00*
KOV	ae	500	.....	Pittsburgh, Pa.	E-7:00-24:00*
WALA	af	500	C (1)	Mobile, Ala.	E-8:00-23:00*
WKBH	ae	1000	.....	LaCrosse, Wis.	C-7:30-23:00*
WNBC	mk	250	D	New Britain, Conn.	E-7:00-17:15*
WSMK	ak	200	C	Dayton, Ohio	E-7:00-19:30; 22-1:00*

1390 kilocycles (215.7)

CJRC	ak	100	F	Winnipeg, Man.	C-7:30-23:00*
CMJC	z	150	.....	Camaguey, Cuba	E-.....
HH	ak	15	1395	San Ped. de Macoris, DR	E-.....
KLRA	ae	1000	C (2.5)	Little Rock, Ark.	C-6:30-23:30*
KOOS	ae	250	.....	Marshfield, Ore.	P-8:00-20:00*
KOY	ae	500	(1)	Phoenix, Ariz.	M-7:00-22:15*
WHK	ae	1000	C (2.5)	Cleveland, Ohio	E-7:30-24:00*

1400 kilocycles (214.2)

CMGC	z	100	.....	Matanzas, Cuba	E-.....
CMKR	z	100	.....	Santiago, Cuba	E-.....
KLO	ak	500	.....	Ogden, Utah	M-8:30-21:30*
KTUL	ak	500	C (1)	Tulsa, Okla.	C-6:30-24:00*
TGX	ak	250	.....	Guatemala City, Gt.	C-7:00-10:30; 13-15; 19-23*
WARD	ak	500	2	Brooklyn, N. Y.	E-15:45-18; 22:30-1:00
WBBC	ae	500	2 (1)	Brooklyn, N. Y.	E-.....
WIRE	ak	500	R (1)	Indianapolis, Ind.	C-7:00-24:00*
WLTH	ak	500	2	Brooklyn, N. Y.	E-11:00-13:30; 18:00-19:30
WVFW	ak	500	2	Brooklyn, N. Y.	E-13:30-15:45; 21-22:30

1410 kilocycles (212.6)

CHNC	ak	500	F (1)	New Carlisle, Que.	A-9:00-10; 12-13; 17:30-23:30*
CKFC	ak	50	5	Vancouver, B. C.	P-15-16:30*
CKMO	ag	100	5F	Vancouver, B. C.	P-.....
CMCR	z	150	.....	Havana, Cuba	E-12:00-13; 16-18; 20-21
KGNC	ae	1000	(2.5)	Amarillo, Texas	C-.....
WAAB	ak	500	C	Boston, Mass.	E-7:30-24:00*
WBGM	ae	500	.....	Bay City, Mich.	E-6:45-00:45*
WHBL	ae	500	4	Sheboygan, Wis.	C-6:00-10:00; 13-16:30; 18-19:30*
WHIS	ak	250	(.5)	Bluefield, W. Va.	E-7:00-9; 12-15; 18-20*
WROK	ak	500	4	Rockford, Ill.	C-10:00-13:00; 16-18; 20-22:30*
WSFA	ak	500	C (1)	Montgomery, Ala.	C-6:30-22:30*

1420 kilocycles (211.1)

CKGB	ak	100	.....	Timmins, Ont.	E-12-13:30; 17-22:30*
CKNC	ak	100	F	Toronto, Ont.	E-8:00-23:15*
CMGI	z	50	.....	Matanzas, Cuba	E-.....
KABC	ak	100	(.25)	San Antonio, Texas	C-7:00-23:00*

North American B. C. Stations by Frequencies with Saturday's Time on the Air

KABR	ak	100	....	Aberdeen, S. Dak.	C-.....
KALB	z	100	D	Alexandria, La.	C-.....
KBBP	aj	100	4	Portland, Ore.	P-Silent
KCCM	ak	100	....	Texarkana, Ark.	C-7:00-14; 16-21*
KRIZ	ak	100	....	Fond du Lac, Wis.	C-9-13; 16-21*
KGFF	ak	100	....	Shawnee, Okla.	C-7:30-15; 17-21*
KGGC	ak	100	....	San Francisco, Cal.	P-9:00-13; 16-23*
KGIW	ak	100	1	Alamosa, Colo.	M-7:00-14; 18-21*
KHBC	z	100	....	Hilo, T. H.	L-.....
KIDW	z	100	1	Lamar, Colo.	M-7:00-12; 15-18*
KIUN	ak	100	....	Pecos, Texas	C-7:00-14; 16-22*
KNET	z	100	DP	Palestine, Texas	C-.....
KORE	ae	100	....	Eugene, Ore.	P-7:45-21:00*
KRLC	ak	100	....	Lewiston, Idaho	P-6:30-22:00*
KRLH	z	100	DP	Midland, Tex.	C-.....
KUMA	ak	100	....	Yuma, Ariz.	M-4:00-9; 11-13:30; 18-22*
KWBG	ak	100	....	Hutchinson, Kans.	C-7:00-19:00*
KXL	ak	100	4 (.25)	Portland, Ore.	P-7:00-1:00
WACO	ak	100	C	Waco, Texas	C-7:00-23:00*
WAGM	ae	100	....	Presque Isle, Maine	E-11:00-13; 16-19*
WAZL	ak	100	2	Hazleton, Pa.	E-10:30-14:30; 16-22*
WCBS	ak	100	....	Springfield, Ill.	C-7:00-22:00*
WEED	ak	100	3	Rocky Mount, N. C.	E-7:00-16; 20-22*
WEHC	ak	100	3 (.25)	Charlottesville, Va.	E-7:00-13; 16-20*
WEHS	ak	100	a	Cicero, Ill.	C-16-18*
WELL	ak	100	....	Battle Creek, Mich.	E-7:30-24:00*
WGPC	ak	100	....	Albany, Ga.	C-7:00-21:00*
WHDL	ak	100	D	Olean, N. Y.	E-7:00-ss*
WHFC	ae	100	a	Cicero, Ill.	C-7:00-13:30; 18-1:00*
WILM	aj	100	2	Wilmington, Del.	E-7:00-11; 14-17; 21-24*
WJBO	ak	100	....	Baton Rouge, La.	C-6:45-22:00*
WJMS	ak	100	....	Ironwood, Mich.	C-7:30-19:30*
WKBI	ak	100	a	Cicero, Ill.	C-13:30-16:00*
WLAP	ak	100	(.25)	Lexington, Ky.	C-7:00-22:00*
WLBK	ak	100	....	Kansas City, Kans.	C-7:00-22:00*
WLEU	ak	100	(.25)	Erie, Pa.	E-8:00-23:00*
WMAS	ak	100	C (.25)	Springfield, Mass.	E-7:30-24:00*
WMBC	ae	100	(.25)	Detroit, Mich.	E-7:30-24:00*
WMBH	ak	100	(.25)	Joplin, Mo.	C-7:00-21:30*
WMFJ	ak	100	....	Daytona Beach, Fla.	E-8:00-24:00*
WNRA	ak	100	....	Muscle Shoals, Ala.	C-7:00-13:00; 16-22*
WPAD	ak	100	(.25)	Paducah, Ky.	C-7:00-9:30; 11:00-14:00; 16-22:30*
WPAR	ak	100	....	Parkersburg, W. Va.	E-8:00-1:00
WPRP	z	100	P (.25)	Ponce, P. R.	A-.....
WWC	z	1000	P	Spartanburg, S. C.	E-.....
XEAZ	z	7	....	Guantanamo, Gto.	C-.....
XEFB	ak	100	....	Monterrey, N. L.	C-10:00-14:00; 17:00-22:30

1430 kilocycles (209.7)

CMJP	ak	100	....	Camaguey, Cuba	E-10:00-12:00; 20:00-22:00*
KECA	ah	1000	(5) N	Los Angeles, Calif.	P-7:00-23:00*
KGNF	ak	1000	D	North Platte, Neb.	C-7:00-ss*
KSO	ak	500	B (1)	Des Moines, Iowa	C-6:30-1:00*
WBNS	ae	500	C (1)	Columbus, Ohio	E-6:30-24:00*
WHEC	ae	500	C (1)	Rochester, N. Y.	E-8:00-24:00*
WHP	ak	500	C (1)	Harrisburg, Pa.	E-8:00-24:00*
WNBR	ae	500	(1)	Memphis, Tenn.	C-7:30-22:15*
WOKO	aj	500	C (1)	Albany, N. Y.	E-8:00-1:00*

1440 kilocycles (208.2)

KDFN	ak	500	....	Casper, Wyo.	M-7:30-13:30; 15:00-21:00*
KLS	ag	250	D	Oakland, Calif.	P-7:00-18:00*
KXYZ	z	1000	....	Houston, Texas	C-6:00-22:30*
TIFS	z	7.5	(1441)	Cartago, C. R.	C-.....
WBIG	ae	500	C (1)	Greensboro, N. C.	E-7:00-23:00*
WCBA	aj	500	a	Allentown, Pa.	E-7:00-1:00*
WMBD	aj	500	C (1)	Peoria, Ill.	C-6:00-24:00*
WSAN	aj	500	a	Allentown, Pa.	E-13:00-23:00
XEFI	ae	250	....	Chihuahua, Chih.	C-13:00-16:00; 20-22:30*

1450 kilocycles (206.8)

CFCT	ae	75	....	Victoria, B. C.	P-8:00-12:30; 17:30-20:15; 00-2:00
CHGS	ae	50	F	Summerside, P.E.I.	A-7:30-8:45; 10:30-14; 16-23*
KTBS	ak	1000	N	Shreveport, La.	C-6:30-24:00*
WGAR	ak	500	B (1)	Cleveland, Ohio	E-7:00-1:00
WHOM	ae	250	....	Jersey City, N. J.	E-7:00-24:00*

North American B. C. Stations by Frequencies with Saturday's Time on the Air

WSAR	ae	250	....	Fall River, Mass.	E-8:00-15:30; 17-22:15*
WTFI	ak	500	....	Athens, Ga.	E-8:00-20:00*

1460 kilocycles (205.4)

CMKF	z	50	....	Holguin, Cuba	E-.....
KSTP	ak	25000	N	St. Paul, Minn.	C-6:45-00:15*
WJSV	ak	10000	C	Washington, D. C.	E-6:30-1:00*

1470 kilocycles (204.0)

CMOK	z	150	....	Havana, Cuba	E-.....
KGA	ak	5000	N	Spokane, Wash.	P-6:00-24:00*
WLAC	ak	5000	C	Nashville, Tenn.	C-6:30-24:00*

1480 kilocycles (202.6)

KOMA	ak	5000	C	Oklahoma City, Ok.	C-7:00-24:00*
WKBW	ck	5000	C	Buffalo, N. Y.	E-7:00-1:00*

1490 kilocycles (201.2)

KFBK	ak	5000	C	Sacramento, Calif.	P-7:00-24:00*
WCKY	ae	5000	B	Covington, Ky.	E-7:00-1:00

1500 kilocycles (199.9)

CJIC	ak	100	....	Sault Ste. Marie, Ont.	E-11:00-14; 17-20*
CMCN	z	150	....	Havana, Cuba	E-.....
KDB	ak	100	C	Santa Barbara, Calif.	E-7:00-24:00*
KGFI	ak	100	(.25)	Corpus Christi, Tex.	C-7:00-15; 18-22*
KGFK	ak	100	Y	Moorhead, Minn.	C-8:00-21:00*
KGKB	ak	100	....	Tyler, Texas	C-8:00-14:00; 17-23*
KGKY	ak	100	(.25)	Scottsbluff, Neb.	M-7:00-15; 17-21*
KNEL	z	100	DP	Brady, Tex.	C-.....
KNOW	ak	100	....	Austin, Texas	C-7:00-14; 16-22*
KOTN	ak	100	D	Pine Bluff, Ark.	C-7:00-ss*
KPJM	ak	100	....	Prescott, Ariz.	M-8:00-13:30; 17:30-20:00*
KPLC	ak	100	....	Lake Charles, La.	C-7:00-14; 17-21*
KPO	ak	100	(.25)	Wenatchee, Wash.	P-7:00-23:00*
KREG	ak	100	....	Santa Ana, Calif.	P-9:00-23:00*
KRNR	z	100	DP	Roseburg, Ore.	P-.....
KXO	ae	100	....	El Centro, Calif.	P-7:00-14:00; 16:00-21:00*
WCNW	ak	100	i (.25)	Brooklyn, N. Y.	E-15:00-21:00
WDNC	ae	100	C	Durham, N. C.	E-7:30-00:30*
WGAL	ae	100	(.25)	Lancaster, Pa.	E-9:00-22:00*
WHBB	z	100	DP	Selma, Ala.	E-.....
WHEF	ak	100	(.25)	Kosciusko, Miss.	C-6:30-21:00*
WJBK	ae	100	(.25)	Detroit, Mich.	E-7:00-24:00*
WKBB	ak	100	(.25)	E. Dubuque, Ill.	C-7:00-21:00*
WKBV	ak	100	....	Richmond, Ind.	C-10:00-12:00; 18:00-22:00*
WKBZ	ak	100	(.25)	Muskegon, Mich.	E-7:30-22:00*
WKEU	ak	100	....	Griffin, Ga.	C-7:00-17:00*
WMBQ	ae	100	i	Brooklyn, N. Y.	E-9:00-11:00
WMEX	ak	100	(.25)	Boston, Mass.	E-.....
WNBF	ae	100	C	Binghamton, N. Y.	E-7:00-22:00*
WOPI	ae	100	....	Bristol, Tenn.	E-7:00-23:00
WRDW	ak	100	....	Augusta, Ga.	E-8:00-21:00*
WRGA	ak	100	(.25)	Rome, Ga.	C-7:00-10:00; 12-15; 18-21*
WSYB	ak	100	....	Rutland, Vt.	E-10:00-13; 17-21*
WTMV	ak	100	....	East St. Louis, Ill.	C-6:00-23:00
WTRL	ak	100	i (.25)	Woodside, N. Y.	E-8-9; 11-15; 21-1:00
WWSV	ae	100	(.25)	Pittsburgh, Pa.	E-8:00-24:00*
.....	z	100	P	Valley City, N. Dak.	C-.....

1510 kilocycles (198.6)

CFRC	ak	100	....	Kingston, Ont.	E-Irregular
CKCR	ak	100	....	Waterloo, Ont.	E-8:00-14:00; 17:00-24:00*

1530 kilocycles (196.0)

W1XBS z 1000 Waterbury, Conn. E—.....
 W9XBY ak 1000 Kansas City, Mo. C—7:00-2:00*

1550 kilocycles (193.4)

W2XR z 1000 Long Isl. City, N. Y. E—Silent
 W6XAI ak 1000 Bakersfield, Calif. P—12:00-23:00*

KEY TO SYMBOLS

**As Shown in the index by
Frequencies and Dial Numbers**

Frequency is given in kilocycles; wavelengths in meters. Night power is shown in watts in third column. Daytime power is shown in parenthesis 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>e Sends Ekko stamp for 10c.</p> <p>f Sends Ekko stamp for 5c.</p> <p>g Sends Ekko stamp for postage.</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 Radio Brdstg. Commission.</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> |
|--|---|--|

Time on the Air

*Asterisk indicates that the hours are the same for the other week days.

The time is given in accordance with the "24-hour clock." Noon is always 12:00, but midnight may be either 0:00 or 24:00. To change to time of your own clock, subtract twelve. Thus, 18:00-24:00 is 6:00 p. m. to midnight. 23:00-0:30 is 11:00 p. m. to 12:30 a. m. A signifies Atlantic Standard Time (AST). E is Eastern Standard Time (EST). C is Central Standard Time (CST). P is Pacific Standard Time (PST). L is Local Standard Time (LST).

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.

ALABAMA	ALASKA	Yuma KUMA 1420 100	Texarkana KXMC 1420 100	
Birmingham	Anchorage	ARKANSAS		
→ WAPI 1140 5000 N	KFOD 780 250	Blytheville	CALIFORNIA	
→ WBRC 930 1000 C	Juneau	→ KLCN 1290 100	Bakersfield	
WGSN 1310 100	KINY 1310 100	El Dorado	→ KERN 1370 100 C	
Decatur	Ketchikan	KELD 1370 100	W6XAI 1550 1000	
→ WMFO 1370 100	KGBU 900 500	Fayetteville	Berkeley	
Dothan	ARIZONA		→ KRE 1370 100	
→ WAGF 1370 100	Jerome	→ KUOA 1260 1000	Beverly Hills	
Gadsden	→ KCRJ 1310 100	Fort Smith	→ KMPC 710 500	
→ WJBY 1210 100	Lowell	→ KFPW 1210 100	Burbank	
Mobile	KSUN 1200 100	Hot Springs	KELW 780 500	
→ WALA 1380 500 C	Phoenix	→ KTHS 1060 10000 N	Chico	
Montgomery	KOY 1390 500	Jonesboro	→ KHSL 950 250	
WSFA 1410 500 C	→ KTAR 620 1000 N	Little Rock	Del Monte	
Muscle Shoals	Prescott	→ KARK 890 250	KDON 1210 100	
→ WNRA 1420 100	→ KPJM 1500 100	→ KGHI 1200 100	El Centro	
Selma	Tucson	→ KLRA 1390 1000 C	→ KXO 1500 100	
WHBB 1500 100	→ KGAR 1370 100	Pine Bluff	Eureka	
	KVOA 1260 500	→ KOTN 1500 100	→ KIEM 1210 100	

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Fresno		
KMJ	580	1000 C
Glendale		
KIEV	850	100
Hollywood		
KFWB	950	1000
KMTR	570	1000
KNX	1050	50000 C
Long Beach		
KFOX	1250	1000
KGER	1360	1000
Los Angeles		
KECA	1430	1000 N
KEHE	780	500
KFCF	1300	1000
KFI	640	50000 N
KFSG	1120	500
KFVD	1000	250
KGFJ	1200	100
KHJ	900	1000 C
KRDK	1120	500
Modesto		
KTRB	740	250
Oakland		
KLS	1440	250
KLX	880	1000
KROW	930	1000
Pasadena		
KPPC	1210	50
Sacramento		
KFBK	1490	5000 C
San Bernardino		
KFXM	1210	100
San Diego		
KFSD	600	1000 N
KGB	1330	1000 C
San Francisco		
KFRC	610	1000 C
KGCC	1420	100
KGO	790	7500 N
KJBS	1070	500
KJPO	680	50000 N
KSFO	560	1000
KYA	1230	1000 N
San Jose		
KQW	1010	1000
Santa Ana		
KREG	1500	100
Santa Barbara		
KDB	1500	100 C
Stockton		
KGDM	1100	1000
KWG	1200	100 C
COLORADO		
Alamosa		
KGIW	1420	100
Colorado Springs		
KVOR	1270	1000 C
Denver		
KFEL	920	500
KLZ	560	1000 C
KOA	830	50000 N
KPOF	880	500
KVOD	920	500
Durango		
KIUP	1370	100
Grand Junction		
KFXJ	1200	100
 Greeley		
KKFA	880	500
Lamar		
KIDW	1420	100
 Pueblo		
KGHF	1320	500
Sterling		
KGEK	1200	100

CONNECTICUT		
Bridgeport		
WICG	600	500 C
Hartford		
WDRG	1330	1000 C
WTIC	1040	50000 R
New Britain		
WNBC	1380	250
New Haven		
WELI	900	500
Storrs		
WCAC	600	500
Waterbury		
WATR	1190	100
WIXBS	1530	1000
DELAWARE		
Wilmington		
WDEL	1120	250
WILM	1420	100
DISTRICT OF COLUMBIA		
Washington		
WJWS	1460	10000 C
WMAL	630	250 B
WOL	1310	100
WRC	950	500 R
FLORIDA		
Clearwater		
WFLA	620	1000 N
Daytona Beach		
WMFJ	1420	100
Gainesville		
WRUF	830	5000
Jacksonville		
WJAX	900	1000 N
WMBR	1370	100 C
Miami		
WIOD	1300	1000 N
WQAM	560	1000 C
Orlando		
WDBO	580	1000 C
Pensacola		
WCOA	1340	500 C
St. Petersburg		
WSUN	620	1000 N
Tallahassee		
WTAL	1310	100
Tampa		
WDAA	1220	1000 C
GEORGIA		
Albany		
WGPC	1420	100
Athens		
WTFI	1450	500
Atlanta		
WGST	890	500 C
WJTL	1370	100
WSB	740	50000 N
Augusta		
WRDW	1500	100
Columbus		
WRBL	1200	100
Griffin		
WKEU	1500	100
Macon		
WMAZ	1180	1000
Rome		
WRGA	1500	100
Savannah		

WTOG		1260	1000 C
Thomasville			
WPAX	1210	250	
HAWAII			
Hilo			
KHBC	1420	100	
Honolulu			
KGMB	1320	1000 C	
KGU	750	2500 N	
IDAHO			
Boise			
KIDO	1350	1000	
Idaho Falls			
KID	1320	250	
Lewiston			
KRLC	1420	100	
Nampa			
KFXD	1200	100	
Pocatello			
KSEI	900	250	
Twin Falls			
KTFI	1240	1000	
ILLINOIS			
Bloomington			
WJBC	1200	100	
Carthage			
WCZA	1070	100	
Chicago			
WAAF	920	500	
WBBM	770	50000 C	
WCBF	978	5000 B	
WCRW	1210	100	
WEDC	1210	100	
WENR	870	50000 N	
WGES	1360	500	
WGN	720	50000	
WJJD	1130	20000	
WLS	870	50000 N	
WMAO	670	50000 N	
WMBI	1080	5000	
WSBC	1210	100	
Cicero			
WEHS	1420	100	
WHFC	1420	100	
WKBI	1420	100	
Decatur			
WJBL	1200	100	
East Dubuque			
WKBB	1500	100	
East St. Louis			
WTMV	1500	100	
Harrisburg			
WEBQ	1210	100	
Joliet			
WCLS	1310	100	
Peoria			
WMBD	1440	500 C	
Quincy			
WTAD	900	500	
Rockford			
WROK	1410	500	
Rock Island			
WHBF	1210	100	
Springfield			
WCBS	1420	100	
WTAX	1210	100	
Tuscola			
WDZ	1070	100	
Urbana			
WILL	890	250	
Waukegan			
WCBD	1080	5000	

INDIANA			
Anderson			
WHBU	1210	100	
Elkhart			
WTRC	1310	50	
Evansville			
WGBF	630	500	
Fort Wayne			
WGL	1370	100 C	
WOWO	1160	10000 C	
Gary			
WIND	560	1000	
Hammond			
WWAE	1200	100	
Indianapolis			
WFBM	1230	1000 C	
WIRE	1400	500 R	
Muncie			
WLBC	1310	50	
Richmond			
WKBV	1500	100	
South Bend			
WFAM	1200	100	
WSBT	1360	500 C	
Terre Haute			
WBOW	1310	100	
West Lafayette			
WBAA	890	1000	
IOWA			
Ames			
WIOI	640	5000	
Boone			
KFGQ	1370	100	
Cedar Rapids			
WMT	600	1000 B	
Council Bluffs			
KOIL	1260	1000 B	
Davenport			
WOC	1370	100 C	
Decorah			
KGCA	1270	100	
KWLC	1270	100	
Des Moines			
KRNT	1328	500 C	
KSO	1430	500 B	
WHO	1000	50000 R	
Iowa City			
WSUI	880	500	
Marshalltown			
KFJB	1200	100	
Shenandoah			
KFNF	890	500	
KMA	930	1000	
Sioux City			
KSCJ	1330	1000 C	
KANSAS			
Ablene			
KFBI	1050	5000	
Coffeyville			
KGFF	1010	1000	
Dodge City			
KGNO	1340	250	
Garden City			
KIUL	1210	100	
Hutchinson			
KWBG	1420	100	
Kansas City			
WLBK	1420	100	
Lawrence			
KFKU	1220	1000	
WRKN	1220	1000 B	
Manhattan			
KSAC	580	500	

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Topoka ↳WBW 580 1000 C Wichita ↳KPH 1300 1000 C</p> <p style="text-align: center;">KENTUCKY</p> <p>Ashtand WCM1 1310 100 Covington ↳WCKY 1490 5000 B Lexington ↳WLAP 1420 100 Louisville ↳WAVE 940 1000 N ↳WHAS 820 50000 C Paducah ↳WPAD 1420 100</p> <p style="text-align: center;">LOUISIANA</p> <p>Alexandria KALB 1420 100 Baton Rouge ↳WJBO 1420 100 Lafayette ↳KVOL 1310 100 Lake Charles ↳KPLC 1500 100 Nonroe ↳KMLB 1200 100 New Orleans ↳WBNO 1200 100 ↳WDSU 1250 1000 ↳WJBW 1200 100 ↳WSMB 1320 500 N ↳WWL 850 10000 C Shreveport ↳KRMD 1310 100 ↳KTBS 1450 1000 N KWEA 1210 100 ↳KWKH 1100 10000 C</p> <p style="text-align: center;">MAINE</p> <p>Augusta WRDO 1370 100 Bangor WABI 1200 100 WLBZ 620 500 C Portland WCSH 940 1000 R Presque Isle WAGM 1420 100</p> <p style="text-align: center;">MARYLAND</p> <p>Baltimore ↳WBAL 1060 10000 B WCAO 600 500 C WCBM 1370 100 WFBZ 1270 500 R Cumberland WTBO 800 250 Frederick WFMD 900 500 Hagerstown WJEG 1210 100</p> <p style="text-align: center;">MASSACHUSETTS</p> <p>Babson Park WBOS 920 500 Boston WAAB 1410 500 C ↳WBZ 990 50000 B WCOP 1120 500 WEFI 990 1000 R WHDH 830 1000 WMEX 1500 100</p>	<p>WNAC 1230 1000 C Fall River WSAR 1450 250 Lowell WLLH 1370 100 New Bedford WNBH 1310 100 C Springfield ↳WBZA 990 1000 B WMAS 1420 100 C Worcester WORC 1280 500 C WTAG 580 500 R</p> <p style="text-align: center;">MICHIGAN</p> <p>Battle Creek ↳WELL 1420 100 Bay City ↳WBGM 1410 500 Calumet ↳WHDF 1370 100 Detroit ↳WJBK 1500 100 ↳WJR 750 50000 C ↳WMBC 1420 100 ↳WWJ 920 1000 R ↳WXYZ 1240 1000 B East Lansing ↳WKAR 1040 1000 Flint ↳WFDL 1310 100 Grand Rapids ↳WASH 1270 500 N ↳WOOD 1270 500 N Ironwood ↳WJMS 1420 100 Jackson ↳WJBM 1370 100 Kalamazoo ↳WKZO 590 1000 Lansing WJIM 1210 100 Lapeer WMPG 1200 100 Marquette WBEO 1310 100 Muskegon ↳WKBB 1500 100 Royal Oak ↳WEXL 1310 50</p> <p style="text-align: center;">MINNESOTA</p> <p>Fergus Falls ↳KGDE 1200 100 Hibbing WMFG 1210 100 Minneapolis ↳WCCO 810 50000 C ↳WDGY 1180 1000 ↳WLB 1250 1000 ↳WTCN 1250 1000 Moorhead KGFK 1500 100 Northfield ↳WCAL 1250 1000 Rochester ↳KRCC 1310 100 St. Paul ↳KSTP 1460 25000 N</p> <p style="text-align: center;">MISSISSIPPI</p> <p>Clarksdale WMFN 1210 100 Nattiesburg ↳WPPB 1370 100</p>	<p>Jackson ↳WJDX 1270 1000 N Kosciusko ↳WHEP 1500 100 Laurel ↳WAML 1310 100 Meridian ↳WCOC 880 500 Mississippi City ↳WGCN 1120 500 Vicksburg ↳WQBC 1360 1000</p> <p style="text-align: center;">MISSOURI</p> <p>Cape Girardeau KFSV 1210 100 Columbia ↳KFRU 630 500 Jefferson City ↳WOS 630 500 Joplin ↳WMBH 1420 100 Kansas City ↳KMBC 950 1000 C ↳KWKC 1370 100 ↳WDAF 610 1000 R ↳WHB 860 1000 R W9XBY 1530 1000 St. Joseph ↳KPEQ 680 2500 St. Louis ↳KFUO 550 500 ↳KMOX 1090 50000 C ↳KSD 550 1000 R ↳KWK 1350 1000 B ↳WEW 760 100 ↳WIL 1200 100 ... ↳WLL 1500 100 Springfield ↳KGBV 1230 500 ↳KWTO 560 5000</p> <p style="text-align: center;">MONTANA</p> <p>Billings ↳KGLH 780 1000 N Butte ↳KGR 1340 1000 N Great Falls ↳KFPB 1280 1000 Kallispell KGEZ 1310 100 Missoula KGV0 1260 1000 Wolf Point ↳KGCX 1310 100</p> <p style="text-align: center;">NEBRASKA</p> <p>Clay Center ↳KMMJ 740 1000 Kearney KGFV 1310 100 Lincoln ↳KFAB 770 10000 C ↳KFOR 1210 100 C Norfolk ↳WJAG 1060 1000 North Platte ↳KGNF 1430 1000 Omaha ↳WAAW 660 500 ↳WOW 590 1000 R Scottsbluff KGTKY 1500 100 York ↳KGBZ 930 1000</p>	<p style="text-align: center;">NEVADA</p> <p>Reno ↳KOH 1380 500 C</p> <p style="text-align: center;">NEW HAMPSHIRE</p> <p>Laconia WLNH 1310 100 Manchester WFEA 1340 500 C Portsmouth WHEB 740 250</p> <p style="text-align: center;">NEW JERSEY</p> <p>Asbury Park ↳WCAP 1280 500 Atlantic City WPG 1100 5000 C Camden WCAM 1280 500 Jersey City WAAT 940 500 ↳WHOM 1450 250 Newark WHBI 1250 1000 ↳WNEW 1250 1000 ↳WOR 710 50000 Red Bank WBRB 1210 100 Trenton ↳WTNJ 1280 500 Zarephath ↳WAWZ 1350 500</p> <p style="text-align: center;">NEW MEXICO</p> <p>Albuquerque ↳KGGM 1230 250 ↳KOB 1180 10000 Clovis ↳KICA 1370 100 Roswell ↳KGFJ 1370 100 Santa Fe ↳KIUJ 1310 100</p> <p style="text-align: center;">NEW YORK</p> <p>Albany WABY 1370 100 WOKO 1430 500 C Auburn WMBO 1310 100 Binghamton WBNF 1500 100 Brooklyn WARD 1400 500 ↳WBBC 1400 500 WBBR 1300 1000 WCNW 1500 100 WLTH 1400 500 ↳WMBQ 1500 100 WYFW 1400 500 Buffalo WBBN 900 1000 R ↳WBBR 1310 100 WGR 550 1000 C ↳WKBW 1480 5000 C WSVS 1370 50 WBNY 1370 100 Canton WCAD 1220 500 Chester ↳WGNV 1210 100 Elmira WESG 850 1000 C Freeport ↳WGBB 1210 100</p>
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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Jamestown		
WOGL	1210	50
Long Island City		
W2XR	1550	1000
New York		
WABC	860	50000 C
WBNX	1350	250
WBOQ	860	50000
WEAF	660	50000 R
WEVD	1300	1000
WFAB	1300	1000
WHN	1010	1000
WINS	1180	1000
WJZ	760	50000 B
WLWL	1100	5000
WMCA	570	500
WNYC	810	1000
WOV	1130	1000
Olean		
WHDL	1420	100
Plattsburg		
WMFF	1310	100
Rochester		
WHAM	1150	50000 B
WHEC	1430	500 C
.....	1210	100
Saranac Lake		
WNBZ	1290	100
Schenectady		
WG Y	790	50000 R
Syracuse		
WFBL	1360	1000 C
WSYR	570	250 B
Troy		
WHAZ	1300	500
Utica		
WIBX	1200	100 C
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	500 C
High Point		
WMFR	1200	100
Raleigh		
WPTF	680	5000 N
Rocky Mount		
WEED	1420	100
Wilmington		
WMFD	1370	100
Winston-Salem		
WSJS	1310	100 C

NORTH DAKOTA

Bismarck		
KFYR	550	1000 N
Devils Lake		
KDLR	1210	100
Fargo		
WDAY	940	1000 N
Grand Forks		
KFJM	1370	100
Mandan		
KGCU	1240	250
Minot		
KLPM	1240	250
Valley City		
.....	1500	100

OHIO

Akron		
WADC	1320	1000 C
WJW	1210	100
Canton		
WHBC	1200	100
Cincinnati		
WCPO	1200	100
WKRC	550	1000 C
WLW	700	500000 N
WSAI	1330	1000 R
Cleveland		
WGAR	1450	500 B
WHK	1390	1000 C
WJAY	610	500
WTAM	1070	50000 R
Columbus		
WAIU	640	500
WBNS	1430	500 C
WCOL	1210	100
WOSU	570	750
Dayton		
WHIO	1260	1000 R
WSMK	1380	200 C
Portsmouth		
WPAY	1370	100
Toledo		
WSPD	1340	1000 C
Youngstown		
WKBN	570	500 C
Zanesville		
WALR	1210	100

OKLAHOMA

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

OREGON

Astoria		
KAST	1370	100
Corvallis		
KOAC	550	1000
Eugene		
KORE	1420	100
Klamath Falls		
KFJI	1210	100
Marshfield		
KOOS	1390	250
Medford		
KMED	1310	100
Portland		
KALE	1300	500 C
KBPS	1420	100
KEX	1180	5000 N
KFJR	1300	500
KGW	620	1000 N

KOIN	940	1000 C
KWJJ	1040	500
KXL	1420	100

Roseburg		
KRNR	1500	100
Salem		
KSLM	1370	100

PENNSYLVANIA

Allentown		
WGBA	1440	500
WSAN	1440	500
Altoona		
WFBG	1310	100
Erie		
WLEU	1420	100
Glenside		
WIBG	970	100
Greensburg		
WHJB	620	250
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
WKJC	1200	100

Philadelphia		
KY W	1020	10000 R
WCAU	1170	50000 C
WDAS	1370	100
WFIL	560	1000 B
WHAT	1310	100
WIP	610	1000
WPEN	920	250
WRAX	920	250
WTEL	1310	100
Pittsburgh		
KDKA	980	50000 B
KQV	1380	500
WCAE	1220	1000 R
WJAS	1290	1000 C
WWSW	1500	100
Reading		
WEEU	830	1000
WRAW	1310	100
Scranton		
WGBI	880	500
WOAN	880	250
Sunbury		
WKOK	1210	100
Wilkes-Barre		
WBAX	1210	100
WBRE	1310	100
Williamsport		
WRAC	1370	100
York		
WORK	1320	1000

PUERTO RICO

Ponce		
WPRP	1420	100
San Juan		
WKAQ	1240	1000
WNEL	1290	500

RHODE ISLAND

Newport		
WNRI	1200	100
Providence		
WEAN	780	500 C

WJAR	890	500 R
WPRO	630	250

SOUTH CAROLINA

Anderson		
WAIM	1200	100
Charleston		
WCSC	1360	500
Columbia		
WIS	1010	500 N
Greenville		
WFBC	1300	1000
Spartanburg		
WSPA	920	1000
WVC	1420	1000

SOUTH DAKOTA

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

TENNESSEE

Bristol		
WOPI	1500	100
Chattanooga		
WDOD	1280	1000 C
Jackson		
WTJS	1310	100
Knoxville		
WNOX	560	1000 C
WROL	1310	100
Memphis		
WBBO	1370	100
WMC	780	1000 N
WNBR	1430	500
WREC	600	1000 C
Nashville		
WLAC	1470	5000 C
WSM	650	50000 N
Springfield		
WSIX	1210	100

TEXAS

Amarillo		
KGNC	1410	1000
Austin		
KNOW	1500	100
Beaumont		
KFDM	560	500
Brady		
KNEL	1500	100
College Station		
WTAW	1120	500
Corpus Christi		
KGFI	1500	100
Dallas		
KRLD	1040	10000 C
WFAA	800	50000 N
WRR	1280	500

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Dublin		
→KFFL	1310	100
El Paso		
→KTSM	1310	100
→WDAH	1310	100
Fort Worth		
→KFJZ	1370	100
→KTAT	1240	1000
→WBAP	800	50000 N
Galveston		
→KLUF	1370	100
Houston		
→KPRC	920	1000 N
→KTRH	1290	1000 C
→KXYZ	1440	1000
Langview		
→KFR0	1370	100
Lubbock		
→KFYO	1310	100
Midland		
KRLH	1420	100
Palestine		
KNET	1420	100
Pease		
KIUN	1420	100
Port Arthur		
→KABC	1260	500
San Angelo		
→KGL	1370	100
San Antonio		
→KAC	1420	100
→KMAC	1370	100
→KNO	1370	100
→KTS	550	1000 C
→W0AI	1190	50000 N
Tyler		
→KGB	1500	100
Waco		
→W0	1420	100 C
Weslaco		
→KRGV	1260	500
Wichita Falls		
→KGO	570	250 C
UTAH		
Ogden		
→KLO	1400	500
Salt Lake City		
→KDYL	1290	1000 N
→KSL	1130	50000 C
VERMONT		
Burlington		
W0AX	1200	100
Rutland		
W0YB	1500	100
St. Albans		
W0DM	1370	100
Springfield		
W0NB	1260	1000
Waterbury		
→W0EV	550	500
VIRGINIA		
Arlington		
NAA	690	1000
Charlottesville		
W0EC	1420	100
Danville		
W0TM	1370	100
Harrisburg		
→W0VA	550	500
Lynchburg		
W0VA	1200	100
Newport News		
→W0GH	1310	100

Norfolk		
→WTR	780	500 N
Petersburg		
→WPHR	880	500
Richmond		
W0BL	1210	100
→W0BG	1210	100 C
→W0RA	1110	5000 N
Roanoke		
→W0BJ	930	1000 C
WASHINGTON		
Aberdeen		
→KXRO	1310	100
Bellingham		
KVOS	1200	100
Everett		
KRKO	1370	50
Olympia		
KGV	1210	100
Pullman		
→KWSC	1220	1000
Seattle		
KIRO	710	500
→KJR	970	5000 N
→KOL	1270	1000 C
→KOMO	920	1000 N
KRW	1120	100
KTV	1220	1000
KVL	1370	100
→KXA	760	250
Spokane		
KFIO	1120	100
→KPPY	890	1000 C
→KGA	1470	5000 N
→KHQ	590	1000 N
Tacoma		
KMO	1330	250
→KVI	570	1000 C
Walla Walla		
KUJ	1370	100
Wenatchee		
KPQ	1500	100
Yakima		
KIT	1310	100
WEST VIRGINIA		
Bluefield		
→W0IS	1410	250
Charleston		
W0HS	580	500
Fairmont		
→W0MN	890	500
Huntington		
→W0SA	1190	1000
Parkersburg		
→W0AR	1420	100
Wheeling		
→W0VA	1160	5000 C
WISCONSIN		
Eau Claire		
W0AQ	1330	1000
Fond du Lac		
→KFLZ	1420	100
Green Bay		
→W0BY	1200	100
Janesville		
→W0LO	1200	100
LaCrosse		
→W0BH	1380	1000
Madison		
W0HA	940	1000
→W0BA	1280	1000 N
Manitowac		
→W0MT	1210	100

Milwaukee		
W0MP	1310	100
→W0SN	1120	250 C
→W0TMJ	620	1000 N
Peayette		
→W0BU	1210	100
Racine		
W0JN	1370	100
Shsbogyan		
W0BL	1410	500
Stevens Point		
→W0LB	900	2500
Superior		
→W0EB	1290	1000 N
WYOMING		
Casper		
→KIDN	1440	500
Sheridan		
→KWYO	1370	100
CANADA		
ALBERTA		
Calgary		
CFAC	930	100 F
→CFCN	1030	10000
CJCJ	690	100 F
Edmonton		
CFRN	1260	100 F
→CJCA	730	1000 F
CKUA	580	500
Lethridge		
CJOC	1230	100 F
BRITISH COLUMBIA		
Chilliwack		
CHWK	780	100 F
Kamloops		
CFJC	880	100 F
Kelowna		
→CKOV	630	100 F
Prince Rupert		
CFPR	580	50
Trail		
CJAT	910	250 F
Vancouver		
CJOR	600	500
CKGD	1010	100
CKFC	1410	50
CKMO	1410	100 F
CKWX	1010	100 F
CRCV	1100	500 F
Victoria		
→CFCT	1450	75
MANITOBA		
Brandon		
CKX	1120	100 F
Winnipeg		
CJRC	1390	100 F
→CKY	960	15000 F
NEW BRUNSWICK		
Fredericton		
CFNB	550	500 F
Moncton		
CKCW	1370	100 F
St. John		
CHSJ	1120	500 F

N. W. TERRITORY		
Aktavik		
CJCU	1210	50
NOVA SCOTIA		
Glace Bay		
VAS	685	2000
Halifax		
CHNS	930	1000 F
Sydney		
CJCB	1240	1000 F
Wolfville		
CKIC	1010	50
Yarmouth		
CJLS	1310	100
ONTARIO		
Brantford		
CKFC	930	100 F
Chatham		
→CFCO	630	100 F
Cobalt		
CKMK	1210	50
Fort William		
CKPR	930	100 F
Hamilton		
CHML	1010	100 F
CKOC	1120	500 F
Kingston		
CFRC	1510	100
Kirkland Lake		
CJKL	530	1000
London		
CFPL	730	100 F
North Bay		
CFCH	930	100 F
Ottawa		
CKCO	1010	100 F
CRCO	880	1000 F
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
Timmins		
CKGB	1420	100
Toronto		
→CFRB	690	10000 C
CKKL	580	100 F
CKNC	1420	100 F
→CRCT	840	5000 N
Waterloo		
CKCR	1510	100
Windsor		
CKLW	1030	5000
CRGW	600	500 F
Wingham		
CKNX	1200	50
PRINCE EDWARD ISLAND		
Charlottetown		
CFCY	630	1000 F
CHCK	1310	50
Summerside		
CHGS	1450	50 F

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

QUEBEC		
Chicoutimi		
CRCS	950	100 F
Hull		
CKKH	1210	100 F
Montmagny		
VE9EK	1185	10
Montreal		
CFCF	600	400 N
CHLP	1120	100 F
CKAC	730	5000 C
CRCM	910	5000 F
New Carlisle		
CHNC	1410	500 F
Quebec		
CHRC	580	100 F
CKVC	1310	100 F
CKCK	1010	1000 F

SASKATCHEWAN		
Moose Jaw		
CHAB	1200	100 F
CJRM	540	1000 F
Prince Albert		
CKBI	1210	100 F
Regina		
CHWC	1010	500 F
CKCK	1010	500 F
Saskatoon		
CFQC	840	1000 F
Yorkton		
CJGX	630	500 F

NEWFOUNDLAND		
St. John's		
VOAC	1065	40
VOAS	940	100
VOGY	840	400
VONF	1195	500
VOWR	681	500

MIQUELON		
St. Pierre		
FQN	609	250

CENTRAL AMERICA

COSTA RICA		
Cartago		
TIRS	1441	7.5
TIGA	1014	30
San Jose		
TIEP	850	500
TIFA	1050	75
TIGH	1000	500
TIRH	930	50

GUATEMALA		
Guatemala City		
TGX	1210	10000
TCX	1400	250

HONDURAS		
Tegucigalpa		
HRN	1270	100

NICARAGUA		
Managua		
YNLF	1275	20

YNOP	1230	100
YNVA	950	30

EL SALVADOR		
San Salvador		
RDN	706	500

MEXICO		
AGUASCALIENTES		
Aguascalientes		
XFA	1310	5
XFC	810	350
CHIHUAHUA		
Chihuahua		
XEFI	1440	250
Juarez		
XEFV	1210	100
XEJ	1020	1000
COAHUILA		
Piedras Negras		
XELO	1110	10000
XEPN	590	50000
Saltillo		
XELA	1240	50
XEOX	640	250
Torreon		
XETB	1310	125
XERA	840	250
D. F.		

MEXICO		
Mexico City		
XEAI	1240	100
XEB	1030	10000
XECW	1310	10
XEFA	1180	500
XEFO	940	5000
XEFZ	1370	100
XEK	990	100
XEL	1100	250
XEMX	1280	12
XEN	710	1000
XEP	840	500
XETW	820	500
XEW	890	50000
XEWZ	1150	100
XEYZ	780	10000
XFX	610	1000

MEXICO		
DURANGO		
Durango		
XEE	1210	50
GUANAJUATO		
Guanajuato		
XEAX	1420	7
Leon		
XEKL	1240	500
JALISCO		
Guadalajara		
XEA	1060	125
XED	1155	2500
LOWER CALIFORNIA		
Ensenada		
XEG	1270	200
Mexicali		
XEAA	920	200

MEXICO		
TAMAULIPAS		
Matamoros		
XEAM	750	7.5
Nuevo Laredo		
XEFE	850	250
XENT	910	65000
Reynosa		
XEAW	960	50000
Tampico		
XEFW	1310	250
XEMA	1080	50
XES	990	250
VERACRUZ		
Jalapa		
XFB	1270	250
XFD	1340	350
Veracruz		
XETF	1220	12
XEU	1010	250

MEXICO		
YUCATAN		
Merida		
XEFC	560	100
XEY	1000	10
XEZ	630	500

MEXICO		
WEST INDIES		
CUBA		
Caibarien		
CMHD	1270	250
Camaguey		
CMJA	1010	300
CMJC	1390	150
CMJE	1220	50
CMJF	1150	200

MEXICO		
WEST INDIES		
CUBA		
San Juan		
CMJK	780	250
CMJL	1340	100
CMJP	1430	100
Cardenas		
CMGE	1370	50
Ciego de Avila		
CMJH	1360	100
CMJI	1130	50
CMJO	1180	50
Cienfuegos		
CMHJ	1160	100
CMHW	810	100
CMHX	760	500
Cruces		
CMHK	1330	250
Havana		
CMBC	940	500
CMBD	1170	150
CMBG	1140	200
CMBN	880	150
CMBS	770	150
CMBX	1380	150
CMBY	640	150
CMBZ	1000	250
CMCA	1350	250
CMCB	1230	150
CMCD	960	250
CMCF	815	250
CMCG	1255	250
CMCJ	1200	350
CMCN	1500	150
CMCO	1110	250
CMCQ	680	250
CMCR	1410	150
CMCU	1280	150
CMCV	750	150
CMCX	660	150
CMCY	1030	1000
CMK	1060	250
CMOA	790	150
CMOK	1470	150
CMOX	1320	250
CMO	840	500
CMW	600	1000
CMX	920	650
Holguin		
CMKF	1460	50
Manzanillo		
CMKM	1120	200
Matanzas		
CMGK	1400	100
CMGF	1120	100
CMGI	1420	50
Sagua la Grande		
CMHA	1070	50
Sancti Spiritus		
CMHB	1240	50
Santa Clara		
CMHI	1210	150
Santiago		
CMKC	1250	150
CMKD	1050	250
CMKR	1400	100
CMKV	1190	50

MEXICO		
WEST INDIES		
CUBA		
San Pedro de Macoris		
HH	1395	15
Santo Domingo		
HJ	1195	15
HIX	800	700
HIZ	1300	10
HAITI		
Port-au-Prince		
HHK	920	1000

XEAO	560	250
Tijuana		
XEC	1160	30
XEMO	860	5000
XEMZ	1210	250
XEOK	760	250

MEXICO		
MICHOOACAN		
Morelia		
XEJ	1370	125
NUEVO LEON		
Monterrey		
XEFB	1420	100
XEFJ	1230	100
XEH	1150	250
XET	690	500
XEX	1310	125

MEXICO		
OAXACA		
Oaxaca		
XEAJ	1310	15

MEXICO		
PUEBLA		
Puebla		
XETH	1210	100

MEXICO		
SAN LUIS POTOSI		
San Luis Potosi		
XEZZ	1370	100

MEXICO		
SONORA		
Negales		
XEAF	990	500

MEXICO		
TAMAULIPAS		
Matamoros		
XEAM	750	7.5
Nuevo Laredo		
XEFE	850	250
XENT	910	65000
Reynosa		
XEAW	960	50000
Tampico		
XEFW	1310	250
XEMA	1080	50
XES	990	250

MEXICO		
VERACRUZ		
Jalapa		
XFB	1270	250
XFD	1340	350
Veracruz		
XETF	1220	12
XEU	1010	250

MEXICO		
YUCATAN		
Merida		
XEFC	560	100
XEY	1000	10
XEZ	630	500

MEXICO		
WEST INDIES		
CUBA		
Caibarien		
CMHD	1270	250
Camaguey		
CMJA	1010	300
CMJC	1390	150
CMJE	1220	50
CMJF	1150	200

CMJK	780	250
CMJL	1340	100
CMJP	1430	100
Cardenas		
CMGE	1370	50
Ciego de Avila		
CMJH	1360	100
CMJI	1130	50
CMJO	1180	50
Cienfuegos		
CMHJ	1160	100
CMHW	810	100
CMHX	760	500

Cruces		
CMHK	1330	250
Havana		
CMBC	940	500
CMBD	1170	150
CMBG	1140	200
CMBN	880	150
CMBS	770	150
CMBX	1380	150
CMBY	640	150
CMBZ	1000	250
CMCA	1350	250
CMCB	1230	150
CMCD	960	250
CMCF	815	250
CMCG	1255	250
CMCJ	1200	350
CMCN	1500	150
CMCO	1110	250
CMCQ	680	250
CMCR	1410	150
CMCU	1280	150
CMCV	750	150
CMCX	660	150
CMCY	1030	1000
CMK	1060	250
CMOA	790	150
CMOK	1470	150
CMOX	1320	250
CMO	840	500
CMW	600	1000
CMX	920	650

Holguin		
CMKF	1460	50
Manzanillo		
CMKM	1120	200
Matanzas		
CMGK	1400	100
CMGF	1120	100
CMGI	1420	50
Sagua la Grande		
CMHA	1070	50
Sancti Spiritus		
CMHB	1240	50
Santa Clara		
CMHI	1210	150
Santiago		
CMKC	1250	150
CMKD	1050	250
CMKR	1400	100
CMKV	1190	50

DOMINICAN REPUBLIC		
San Pedro de Macoris		
HH	1395	15

NORTH AMERICAN B. C. STATIONS BY CALLS

CFAC 930 100 Calgary, Alta. T. P. & O. Brdsg. Co., Southam Bldg.	CJLS 1310 100 Yarmouth, N. S. Laurie L. Smith, Grand Hotel
CFCF 600 400 Montreal, Que. Mt. Royal Hotel	CJOC 1230 100 Lethbridge, Alta. Marquis Hotel
CFCH 930 100 North Bay, Ont. Capitol Theatre Bldg. Roy H. Thomson	CJOR 600 500 Vancouver, B. C. G. C. Chandler, Hotel Grosvenor
CFCN 1030 10000 Calgary, Alta. Toronto Gen. Trust Bldg.	CJRC 1390 100 Winnipeg, Man. Royal Alexandra Hotel
CFCO 630 100 Chatham, Ont. Wm. Pitt Hotel	CJRM 540 1000 Moose Jaw, Sask. 311 Main St. No.
CFCT 1450 75 Victoria, B. C. 620 View St.	CKAC 730 5000 Montreal, Que. 980 St. Catherine St. W.
CFCY 630 1000 Charlottetown, P.E.I. 143 Great George St.	CKBI 1210 100 Prince Albert, Sask. Canada Bldg.
CFJC 890 100 Kamloops, B. C. Wilcox-Hall Bldg.	CKCD 1010 100 Vancouver, B. C. 142 Hastings St. W.
CFLC 930 100 Prescott, Ont. Hoy Bldg., 307 George St.	CKCH 1210 100 Hull, Que. Standish Hall Hotel
CFNB 550 500 Fredericton, N. B. York St.	CKCK 1010 500 Regina, Sask. 1853 Hamilton St.
CFPL 730 100 London, Ont. Rlhomond St.	CKCL 580 100 Toronto, Ont. 444 University Ave.
CFPR 580 50 Prince Rupert, B. C. Felix E. Batt	CKCO 1010 100 Ottawa, Ont. 272 Somerset St. W.
CFQC 840 1000 Saskatoon, Sask. 216 First Ave., No.	CKCR 1510 100 Waterloo, Ont. 24 King St., So.
CFRB 690 10000 Toronto, Ont. 37 Bloor St. W.	CKCV 1310 100 Quebec, Que. 142 St. John St.
CFRC 1510 100 Kingston, Ont. Queens University, Fleming Hall	CKCW 1370 100 Moncton, N. B. Moncton Brdsg. Co., Ltd., K. of P. Hall
CFRN 1260 100 Edmonton, Alta. 109 C. P. R. Building	CKCF 1410 50 Vancouver, B. C. Hemlock & 12th Ave.
CHAB 1200 100 Moose Jaw, Sask. P. O. Box 26	CKGB 1420 100 Timmins, Ont. R. H. Thompson, Press Bldg.
CHCK 1310 50 Charlottetown, P.E.I. 36 Upper Hillsboro St.	CKIK 1010 50 Wolfville, N. S. Acadia University
CHGS 1450 50 Summerside, P.E.I. 190 Water St.	CKLW 1030 5000 Windsor, Ont. Guaranty Trust Bldg.
CHLP 1120 100 Montreal, Que. Sun Life Bldg.	CKMC 1210 50 Cobalt, Ont. R. L. MacAdam
CHML 1010 100 Hamilton, Ont. Pigott Bldg.	CKMO 1410 100 Vancouver, B. C. 1604 Bekins Bldg.
CHNC 1410 500 New Carlisle, Que. Gaspesian Radlo Brdsg. Co.	CKNC 1420 100 Toronto, Ont. 805 Davenport Road
CHNS 930 1000 Halifax, N. S. Lord Nelson Hotel	CKNX 1200 50 Wingham, Ont. Wingham Radio Club
CHRC 580 100 Quebec, Que. CHRC, Ltd., Victoria Hotel	CKOC 1120 500 Hamilton, Ont. Wentworth Bldg.
CHSJ 1120 500 St. John, N. B. Admiral Beatty Hotel	CKOV 630 100 Kelowna, B. C. Okanagan Broadcasters, Ltd., Box 243
CHWC 1010 500 Regina, Sask. R. H. Williams & Sons, Kitchener Hotel	CKPC 930 100 Brantford, Ont. Arcade Bldg.
CHWK 780 100 Chilliwack, B. C. Box 452	CKPR 930 100 Fort William, Ont. Royal Edward Hotel
CJAT 910 250 Trail, B. C. Kootenay Brdsg. Co., P. O. Box 1959	CKSO 780 1000 Sudbury, Ont. W. E. Mason, Grand Theatre Bldg.
CJCA 730 1000 Edmonton, Alta. 10122-100A St.	CKTB 1200 100 St. Catharines, Ont. E. T. Sandell, Welland House
CJCB 1240 1000 Sydney, N. S. 318 Charlotte St.	CKUA 580 500 Edmonton, Alta. University of Alberta
CJCJ 690 100 Calgary, Alta. New Albertan Bldg.	CKWX 1010 100 Vancouver, B. C. Hotel Georgia
CJCS 1210 50 Stratford, Ont. M. I. Higgins, 151 Ontario St.	CKX 1120 100 Brandon, Man. City Hall Square
CJCU 1210 50 Aklavik, N. W. T. Dr. J. A. Urquhart, Dept. of Interior	CKY 960 15000 Winnipeg, Man. Sherbrooke St.
CJGX 630 500 Yorkton, Sask. 188 Grain Exchange Bldg. (Winnipeg)	CMBC 940 580 Havana, Cuba Domingo Fernandez, Monte No. 139
CJIC 1500 100 S. Ste. Marie, Ont. Windsor Hotel, P. O. Box 504	CMBD 1170 150 Havana, Cuba Luis Perez Garcia, Calle 17 No. 3, Vedado
CJKL 530 1800 Kirkland Lake, Ont. Northern Brdsg. Co., Ltd.	CMGB 1140 200 Havana, Cuba John L. Stowers, Hospital No. 100

NORTH AMERICAN B. C. STATIONS BY CALLS

CMBN 880 150 Havana, Cuba Pozos Dulces No. 3
CMBS 770 150 Havana, Cuba Calzada y H. St., Vedado
CMBX 1380 150 Havana, Cuba Alberto Alvarez, San Miguel 194
CMBY 640 150 Havana, Cuba Infanta 132 Callejas Estefani
CMBZ 1000 250 Havana, Cuba Manuel y G. Salas, San Rafael No. 14
CMCA 1350 250 Havana, Cuba Galiano No. 102
CMCB 1230 150 Havana, Cuba Metropolitan Bldg. 828/30.
CMCD 960 250 Havana, Cuba Calle G y 25, Vedado
CMCF 815 250 Havana, Cuba Cuban Brdcastg. Co., Paseo de Marti No. 9
CMCG 1255 250 Havana, Cuba Malecon No. 340 Altos
CMCJ 1200 350 Havana, Cuba Rafael Rodriguez, Estevez No. 4
CMCN 1500 150 Havana, Cuba Reina y Ave. Buen Retiro, Marianao
CMCO 1110 250 Havana, Cuba Oficios 116, Enrique Lasanta
CMCQ 680 250 Havana, Cuba Vista Alegre No. 80, Vibora
CMCR 1410 150 Havana, Cuba Milagros No. 35, Vibora
CMCU 1280 150 Havana, Cuba San Francisco No. 13, Vibora
CMCW 750 150 Havana, Cuba San Lazaro No. 113
CMCX 660 150 Havana, Cuba Maceo No. 7, Guanaboa
CMCY 1030 1000 Havana, Cuba Manuel D. Auran, Calle G 215, Vedado
CMGC 1400 100 Matanzas, Cuba Independencia No. 56
CMGE 1370 50 Cardenas, Cuba Genaro Sebarter, Cespedes No. 180
CMGF 1120 100 Matanzas, Cuba G. Betancourt No. 51
CMGI 1420 50 Matanzas, Cuba Armando Lizama Mart No. 35
CMHA 1070 50 Sagua la Grande, Cu. Abelardo Menocal, Carrillo No. 31
CMHB 1240 50 Sancti Spiritus, Cuba Independencia No. 33
CMHD 1270 250 Caibarien, Cuba Manuel Alvarez, M. Escobar 17
CMHI 1210 150 Santa Clara, Cuba Lavis y Paz, Independencia No. 34
CMHJ 1160 100 Cienfuegos, Cuba Romualdo Ugalde, Sta. Elena 184
CMHK 1330 250 Cruces, Cuba Heredia No. 61
CMHW 810 100 Cienfuegos, Cuba P. O. Box 226, Ramon Gonzales
CMHX 760 500 Cienfuegos, Cuba F. Chayarry, P. O. Box 205
CMJA 1010 300 Camaguey, Cuba Rafael Valdes, P. O. Box 64
CMJC 1399 150 Camaguey, Cuba Cisneros y G. Gomez
CMJE 1220 50 Camaguey, Cuba Manuel Fernandez, Enos. Aguerre No. 2
CMJF 1150 200 Camaguey, Cuba John L. Stowers, Republica No. 88
CMJH 1360 100 Ciego de Ayila, Cuba Luis Maraurt, H. Castilla 37

CMJI 1130 50 Ciego de Avila, Cuba Gilberto Gessa Lopez, Independencia 95
CMJK 780 250 Camaguey, Cuba Cla. Nacional de Radio, Finlay No. 3
CMJL 1340 100 Camaguey, Cuba M. Caymares, Republica 181
CMJO 1180 50 Ciego de Avila, Cuba C. Central & Maceo
CMJP 1430 100 Camaguey, Cuba Cesar Canall, Callejas No. 28
CMK 1060 250 Havana, Cuba Hotel Plaza
CMKC 1250 150 Santiago, Cuba J. A. Saco, P. O. Box 466
CMKD 1050 250 Santiago, Cuba Box 23
CMKF 1460 50 Holguin, Cuba Libertad esq. Arias
CMKM 1120 200 Manzanillo, Cuba Merchan P. Figeredo, P. O. Box 4
CMKR 1400 100 Santiago, Cuba B. Maso alta 71
CMKV 1190 50 Santiago, Cuba Oscar Vidal, Palma Soriano
CMOA 798 150 Havana, Cuba Juan Fernandez, Aguiar 126 Altes
CMOK 1470 150 Havana, Cuba Rafael Valdez, Estrella 121
CMOX 1320 250 Havana, Cuba 10 entre 17 y 19, Vedado
CMQ 840 500 Havana, Cuba 25 Numero 445, Vedado
CMW 600 1000 Havana, Cuba Troncoco y Gil, Prado 105 (altos)
CMX 920 650 Havana, Cuba Edif. J. Calle, Oficios y Obrapae
CRCK 1050 1000 Quebec, Que. Chateau Frontenac Hotel
CRCM 910 5000 Montreal, Que. 1231 St. Catherine St. W.
CRCO 880 1000 Ottawa, Ont. Chateau Laurier Hotel
CRCS 950 100 Chicoutimi, Que. 4 Rue Larouche
CRCT 840 5000 Toronto, Ont. 805 Davenport Road
CRCV 1100 500 Vancouver, B. C. 1150 Main Street
CRCW 600 500 Windsor, Ont. Guaranty Trust Bldg.
FQN 609 250 St. Pierre, Miq.
HHK 920 1000 Port-au-Prince, Haiti Haitian Government
HIH 1395 15 San Pedro de M., D.R. Domingo Dominguez
HIJ 1195 15 Santo Domingo, D.R. Tuto Baez, Hostos 34
HIX 800 700 Santo Domingo, D.R. J. R. Saladin, Director General
HIZ 1300 10 Santo Domingo, D.R. Abbes and Garcia
HRN 1270 100 Tegucigalpa, Hond.
KABC 1420 100 San Antonio, Texas Texas Theatre Bldg.
KABR 1420 100 Aberdeen, S. Dak. Aberdeen Broadcast Co.
KADA 1200 100 Ada, Okla. C. C. Morris
KALB 1420 100 Alexandria, La. Alexandria Brdcastg. Co.

NORTH AMERICAN B. C. STATIONS BY CALLS

KALE 1300 500 Portland, Ore. Kale, Inc., New Heathman Hotel	KFJI 1210 100 Klamath Falls, Ore. KFJI Broadcasters, Inc., Willard Hotel
KARK 890 250 Little Rock, Ark. N. S. L. Bldg.	KFJM 1370 100 Grand Forks, N. D. University of North Dakota
KASA 1210 100 Elk City, Okla. E. M. Woody, Casa Grande Hotel	KFJR 1300 500 Portland, Ore. 622 Lumberman's Bldg.
KAST 1370 100 Astoria, Ore. Abraham Shapiro, 611 Commercial St.	KFJZ 1370 100 Fort Worth, Texas 502 Trinity Life Bldg.
KBPS 1420 100 Portland, Ore. 546 N. E. 12th Ave.	KFKA 880 500 Greeley, Colo. Box 735
KBTM 1200 100 Jonesboro, Ark. Jay P. Beard	KFKU 1220 1000 Lawrence, Kans. University of Kansas
KCMC 1420 100 Texarkana, Ark. Box 865	KFNH 890 500 Shenandoah, Iowa 407 Sycamore St.
KCRC 1360 250 Enid, Okla. Enid Radiophone Co., Oxford Hotel	KFOR 1210 100 Lincoln, Neb. Howard Shuman, Hotel Lincoln
KCRJ 1310 100 Jerome, Ariz. Chas. C. Robinson, Drawer D	KFOX 1250 1000 Long Beach, Calif. 220 E. Anaheim St.
KDB 1500 100 Santa Barbara, Calif. 15-17 E. Haley St.	KFPL 1310 100 Dublin, Texas C. C. Baxter, Box 176
KDFN 1440 500 Casper, Wyo. Donald Lewis Hathaway, Box 930	KFPW 1210 100 Fort Smith, Ark. Goldman Hotel
KDKA 980 5900 Pittsburgh, Pa. Grant Building	KFPY 890 1000 Spokane, Wash. Symons Bldg.
KDLR 1210 100 Devils Lake, N. D. KDLR, Inc., 1025 3rd Street	KFQD 780 250 Anchorage, Alaska 411—4th Ave.
KDON 1210 100 Del Monte, Calif. Richard F. Lewis	KFRC 610 1000 San Francisco, Calif. 1000 Van Ness Ave.
KDYL 1290 1000 Salt Lake City, Utah Ezra Thompson Bldg.	KFRO 1370 100 Longview, Texas Voice of Longview, Box 86
KECA 1430 1000 Los Angeles, Calif. 1000 S. Hope St.	KFRU 630 500 Columbia, Mo. KFRU, Inc., 9th and Elm Sts.
KEHE 780 500 Los Angeles, Calif. 214 S. Vermont St.	KFSD 600 1000 San Diego, Calif. U. S. Grant Hotel
KELD 1370 100 El Derado, Ark. T. H. Barton	KFSG 1120 500 Los Angeles, Calif. 1100 Glendale Blvd.
KELW 780 500 Burbank, Calif. 3702 Magnolia Park Blvd.	KFUO 550 500 St. Louis, Mo. 801 De Mun St.
KERN 1370 100 Bakersfield, Calif. Elk's Club	KFVD 1000 250 Los Angeles, Calif. E. L. Cord, 645 S. Mariposa
KEX 1180 5000 Portland, Ore. Oregonian Bldg.	KFVS 1210 100 Cape Girardeau, Mo Oscar C. Hirsch, Box 275
KFAB 770 10000 Lincoln, Neb. Cornhusker Hotel	KFWB 950 1000 Hollywood, Calif. Warner Bros. Motion Pictures, Inc.
KFAC 1300 1000 Los Angeles, Calif. E. L. Cord, 645 So. Mariposa	KFXD 1280 100 Nampa, Idaho Frank E. Hurt, 1024 12th Ave., S.
KFBB 1280 1000 Great Falls, Mont. Buttrety Broadcast., Inc., P. O. Box 1817	KFXJ 1200 100 Grand Jct., Colo. Hillcrest Manor
KFBI 1050 5000 Abilene, Kans. Box 345	KFXM 1210 100 San Bernardino, Calif. California Hotel
KFBK 1490 5000 Sacramento, Calif. Sacramento Bee, 7th & I Sts.	KFXR 1310 100 Oklahoma City, Okla. 541 Hightower Bldg.
KFDM 560 500 Beaumont, Texas Beaumont Hotel, P. O. Box 2950	KFYO 1310 100 Lubbock, Texas Kirksey Bros., Hotel Lubbock
KFDY 780 1000 Breackings, S. D. Box L. State College Station	KFYR 550 1000 Bismarck, N. D. 320 Broadway
KFEL 920 500 Denver, Colo. Albany Hotel	KGA 1470 5000 Spokane, Wash. 1023 W. Riverside Ave.
KFEQ 680 2500 St. Joseph, Mo. Schneider Bldg., KFEQ, Inc.	KGAR 1370 100 Tucson, Ariz. 142 S. 6th Ave.
KFGQ 1370 100 Boone, Iowa 924 W. 2nd St.	KGB 1330 1000 San Diego, Calif. 1012—1st Ave.
KFH 1300 1000 Wichita, Kans. 124 1/2 S. Market St.	KGBU 900 500 Ketchikan, Alaska Mile 5, Wards Cove Rd.
KFI 640 50000 Los Angeles, Calif. 1000 S. Hope St.	KGBX 1230 500 Springfield, Mo. KGBX, Inc., St. Louis at Kimbrough
KFIO 1120 100 Spokane, Wash. Ziegler Building	KGBZ 930 1000 York, Neb. KGBZ Broadcasting Co., 719 Grant Ave.
KFIZ 1420 100 Fond du Lac, Wis. 18 W. 1st St.	KGCA 1270 100 Decorah, Iowa Charles W. Greenley, 201 Water St.
KFJB 1200 100 Marshalltown, Iowa 1603 W. Main St.	KGCU 1240 250 Mandan, N. D. 404 W. Main St.

NORTH AMERICAN B. C. STATIONS BY CALLS

KGCK 1310 100 Wolf Point, Mont. E. E. Krebsbach.
KGDE 1200 100 Fergus Falls, Minn. C. L. Jaren
KGDM 1100 1000 Stockton, Calif. E. F. Pepper, 42 S. Calif. St.
KGDY 1340 250 Huron, S. D. Voice of S. D., Inc., 347 Dakota Ave.
KGEK 1290 100 Sterling, Colo. Elmer G. Beehler, 109 W. 2nd St.
KGER 1360 1000 Long Beach, Calif. 435 Pine Ave.
KGEZ 1310 100 Kalispell, Mont. Donald C. Treloar, Box 1
KGFF 1420 100 Shawnee, Okla. 9th & Bell Sts.
KGFG 1370 100 Oklahoma City, Okla. Okla. Broadcasting Co., 1113 N. Broadway
KGFI 1500 100 Corpus Christi, Texas Eagle Broadcasting Co., Inc., P. O. Box 1508
KGJ 1200 100 Los Angeles, Calif. Ben S. McGlashan, 1417 S. Figueroa
KGFK 1500 100 Moorhead, Minn. Comstock Hotel
KGFL 1370 100 Roswell, N. M. KGFL, Inc., 507 N. Main St.
KGFW 1310 100 Kearney, Neb. 919 West 27th St.
KGFX 630 200 Pierre, S. D. Dana McNeil, Box 573
KGGC 1420 100 San Francisco, Calif. 230 Eddy St.
KGGF 1010 1000 Coffeyville, Kans. Coffeyville Journal Bldg.
KGGM 1230 250 Albuquerque, N. M. Kimo Building
KGHF 1320 500 Pueblo, Colo. C. P. Ritchie, 113 Broadway
KGHI 1200 100 Little Rock, Ark. Arkansas Brdstg. Co., Marion Hotel
KGHL 780 1000 Billings, Mont. 5th & N. Broadway
KGIR 1340 1000 Butte, Mont. KGIR, Inc., 121 W. Broadway
KGIW 1420 100 Alamesa, Colo. Leonard E. Wilson, 326 N. Commercial
KGKB 1500 100 Tyler, Texas 115 S. College
KGKL 1370 100 San Angelo, Texas KGKL, Inc., St. Angelus Hotel
KGKO 570 250 Wichita Falls, Texas 9th St. & Indiana Ave.
KGKY 1500 100 Scottsbluff, Neb. Hillard Co., Inc., 1517 1/2 Broadway
KGMB 1320 1000 Honolulu, T. H. Honolulu Broadcasting Co., Box 2663
KGNC 1410 1000 Amarillo, Texas Plains Radio Brdstg. Co.
KGNF 1430 1000 North Platte, Neb. Great Plains Broadcasting Co., W. 12th St.
KGNO 1340 250 Dodge City, Kans. First Natl. Bank Bldg.
KGO 790 7500 San Francisco, Calif. 111 Sutter St.
KGU 750 2500 Honolulu, T. H. Kapiolani at South St.
KGVO 1260 1000 Missoula, Mont. Mosbys, Inc., 240 N. Higgins
KGW 620 1000 Portland, Ore. 325 Adler St.
KGY 1210 100 Olympia, Wash. KGY, Inc., 11th and Capitol Way

KHBC 1420 100 Hilo, T. H.
KHJ 900 1000 Los Angeles, Calif. 7th & Bixel Sts.
KHQ 590 1000 Spokane, Wash. Sprague Ave. & Post St.
KHSL 950 250 Chico, Calif. Golden Empire Brdstg. Co.
KICA 1370 100 Clovis, N. M. Southwest Broadcasting Co.
KID 1320 250 Idaho Falls, Idaho Box 487
KIDO 1350 1000 Boise, Idaho Hotel Boise
KIDW 1420 100 Lamar, Colo. Lamar Broadcasting Co., Box 688
KIEM 1210 100 Eureka, Calif. Redwood Brdstg. Co., Vance Hotel
KIEV 850 100 Glendale, Calif. Cannon System, Ltd., Glendale Hotel
KINY 1310 100 Juneau, Alaska Edwin A. Kraft
KIRO 710 500 Seattle, Wash. Tower Bldg.
KIT 1310 100 Yakima, Wash. 109 1/2 E. Yakima Ave.
KIUJ 1310 100 Santa Fe, N. Mex. W. C. Irvin
KIUL 1210 100 Garden City, Kans. Garden City Brdstg. Co.
KIUN 1420 100 Pecos, Texas J. H. Hawkins & B. H. Hubbs
KIUP 1370 100 Durango, Colo. C. Guy Shepard, 2800 Main Street
KJBS 1070 500 San Francisco, Calif. 1380 Bush St.
KJR 970 5000 Seattle, Wash. Skinner Bldg.
KLCN 1290 100 Blytheville, Ark. C. L. Lintzenich, Main and Division St.
KLO 1400 500 Ogden, Utah 405-25th St.
KLPM 1240 250 Minot, N. D. John B. Cooley, Box 707
KLRA 1390 1000 Little Rock, Ark. Arkansas Broadcasting Co., Box 550
KLS 1440 250 Oakland, Calif. Warner Bros., 2201 Telegraph Ave.
KLUF 1370 100 Galveston, Texas Geo. R. Clough, Buccaner Hotel
KLX 880 1000 Oakland, Calif. Tribune Tower
KLZ 560 1000 Denver, Colo. Shirley-Savoy Hotel
KMA 930 1000 Shenandoah, Iowa Earl E. May Seed & Nursery Co.
KMAC 1370 100 San Antonio, Texas W. W. McAllister, Smith-Young Tower
KMBC 950 1000 Kansas City, Mo. Piekwick Hotel
KMED 1310 100 Medford, Ore. Mrs. W. J. Virgin, Sparta Bldg.
KMJ 580 1000 Fresno, Calif. Van Ness & Calaveras Sts.
KMLB 1200 100 Monroe, La. Francis Hotel
KMMJ 740 1000 Clay Center, Neb. The M. M. Johnson Co.
KMO 1330 250 Tacoma, Wash. KMO, Inc., Hotel Winthrop
KMOX 1090 50000 St. Louis, Mo. 401 S. 12th St.

NORTH AMERICAN B. C. STATIONS BY CALLS

KMPC 710 500 Beverly Hills, Calif. 9631 Wiltshire Blvd.	KRLD 1040 10000 Dallas, Texas KRLD Radio Corp., Adolphus Hotel
KMTR 570 1000 Hollywood, Calif. KMTR Radio Corp., 915 N. Formosa Ave.	KRLH 1420 100 Midland, Texas Clarence Scharbauer
KNEL 1500 100 Brady, Texas G. L. Burns	KRMD 1310 100 Shreveport, La. Jefferson Hotel
KNET 1420 100 Palestine, Texas Palestine Brdstg. Assn.	KRNR 1500 100 Roseburg, Ore. Oregon Pub. Co.
KNOW 1500 100 Austin, Texas Norwood Building	KRNT 1320 500 Des Moines, Iowa 715 Locust Street
KNX 1050 58000 Hollywood, Calif. West. Broadcast Co., Inc., 1558 N. Vine St.	KROC 1310 100 Rochester, Minn. Southern Minnesota Broadcasting Co.
KOA 830 50000 Denver, Colo. General Electric Co., 1370 Krameria St.	KROW 930 1000 Oakland, Calif. 1803 Franklin St.
KOAC 550 1000 Corvallis, Ore. Oregon State Agricultural College	KRSC 1120 100 Seattle, Wash. Radio Sales Corp., Washington Athletic Club
KOB 1180 10000 Albuquerque, N. M. Albuquerque Journal, Box 1319	KSAC 580 500 Manhattan, Kans. State College of Agriculture
KOH 1380 500 Reno, Nev. 440 N. Virginia St.	KSCJ 1330 1000 Sioux City, Iowa Perkins Bros. Co., 415 Douglas St.
KOIL 1260 1000 Council Bluffs, Iowa Mona Motor Oil Co.	KSD 550 1000 St. Louis, Mo. St. Louis Post-Dispatch
KOIN 940 1000 Portland, Ore. KOIN, Inc., New Heathman Hotel	KSEI 900 250 Pocatello, Idaho Radio Service Corp., 141 S. 6th Ave.
KOL 1270 1000 Seattle, Wash. Northern Life Tower	KSFO 560 1000 San Francisco, Calif. Russ Building
KOMA 1480 5000 Oklahoma City, Okla Biltmore Hotel	KSL 1130 50000 Salt Lake City, Utah Vermont Bldg.
KOMO 920 1000 Seattle, Wash. Skinner Bldg.	KSLM 1370 100 Salem, Ore. Oregon Radio, Inc.
KONO 1370 100 San Antonio, Texas Mission Broadcast Co., Milam Bldg.	KSO 1430 500 Des Moines, Iowa 715 Locust Street
KOOS 1390 250 Marshfield, Ore. H. H. Hanseth, Hall Bldg.	KS00 1110 2500 Sioux Falls, S. D. Sioux Falls Brdest. Assn., Carpenter Hotel
KORE 1420 100 Eugene, Ore. 733 Willamette St.	KSTP 1460 25000 St. Paul, Minn. St. Paul Hotel
KOTN 1500 100 Pine Bluff, Ark. Universal Brdstg. Corp., Hotel Pines	KSUN 1200 100 Lowell, Ariz. Copper Electrical Co., Drawer C
KOY 1390 500 Phoenix, Ariz. P. O. Box 1323	KTAR 620 1000 Phoenix, Ariz. Heard Building
KPAC 1260 500 Port Arthur, Texas Port Arthur College	KTAT 1240 1000 Fort Worth, Texas Ft. Worth Natl. Bank Bldg.
KPJM 1500 100 Prescott, Ariz. Scott & Sturm, P. O. Box 782	KTBS 1450 1000 Shreveport, La. Box 17
KPLC 1500 100 Lake Charles, La. Calcasieu Brdstg. Co., Majestic Hotel	KTFI 1240 1000 Twin Falls, Idaho Radio Broadcasting Corp., Box 521
KPO 680 50000 San Francisco, Calif. 111 Sutter St.	KTHS 1060 10000 Hot Springs, Ark. Chamber of Commerce, Box 886
KPOF 880 500 Denver, Colo. Pillar of Fire, 1845 Champa St.	KTRB 740 250 Modesto, Calif. McTammany & Bates, P. O. Box 405
KPPC 1210 50 Pasadena, Calif. 585 E. Colorado St.	KTRH 1290 1000 Houston, Texas KTRH Broadcasting Co., Rlee Hotel
KPQ 1500 100 Wenatchee, Wash. KPQ Bldg., 20 2nd St.	KTSA 550 1000 San Antonio, Texas Southwest Broadcasting Co., Plaza Hotel
KPRC 920 1000 Houston, Texas Lamar Hotel	KTSM 1310 100 El Paso, Texas P. O. Box 1976
KQV 1380 500 Pittsburgh, Pa. KQV Broadcasting Co., 1406 C. of C. Bldg.	KTUL 1400 500 Tulsa, Okla. National Bank of Tulsa Bldg.
KQW 1010 1000 San Jose, Calif. 87 E. San Antonio St.	KTW 1220 1000 Seattle, Wash. 7th & Spring St.
KRE 1370 100 Berkeley, Calif. 2337 Shattuck Ave.	KUJ 1370 100 Walla Walla, Wash. KUJ, Inc., Marcus Whitman Hotel
KREG 1500 100 Santa Ana, Calif. 3rd & Sycamore Sts.	KUMA 1420 100 Yuma, Ariz. Dr. A. H. Schermann, Box 267
KRGV 1260 500 Weslaco, Texas KRGV Inc.	KUOA 1260 1000 Fayetteville, Ark. KUOA, Inc., Washington Hotel
KRKD 1120 500 Los Angeles, Calif. 815 Spring Arcade Bldg.	KUSD 890 500 Vermillion, S. D. University of South Dakota
KRKO 1370 50 Everett, Wash. Lee Mudgett, 2814 Rucker Ave.	KVI 570 1000 Tacoma, Wash. W. R. Rust Bldg.
KRLC 1420 100 Lewiston, Idaho H. E. Studebaker, Lewis-Clarke Hotel	KVL 1370 100 Seattle, Wash. KVL, Inc., 2101 Smith Tower

NORTH AMERICAN B. C. STATIONS BY CALLS

KVOA 1260 500 Tucson, Ariz. Cons. Natl. Bank Bldg.	VAS 685 2000 Glace Bay, N. S. Canadian Marconi Co., Ltd.
KVOD 920 500 Denver, Colo. Continental Oil Bldg.	VESEK 1185 10 Montmagny, Que. J. A. Marquis, P. O. Box 52
KVOL 1310 100 Lafayette, La. Evangeline Hotel	VOAC 1065 40 St. John's, Nfld.
KVOO 1140 25000 Tulsa, Okla. Wright Bldg.	VOAS 940 100 St. John's, Nfld Ayre & Sons, Ltd., Water St.
KVOR 1270 1000 Colorado Spg., Colo. Antlers Hotel	VOGY 840 400 St. John's, Nfld. Newfoundland Hotel
KVOS 1290 100 Bellingham, Wash. 115 W. Magnolia St.	VONF 1195 500 St. John's, Nfld. Dominion Broadcasting Co., Ltd., Box 135
KVSO 1210 100 Ardmore, Okla. Ardmorette Pub. Co., Inc.	VOWR 681 500 St. John's, Nfld. Wesley United Church, Box 157
KWBG 1420 100 Hutchinson, Kans. W. B. Greenwald	WAAB 1410 500 Boston, Mass. 21 Brookline Ave.
KWEA 1210 100 Shreveport, La. Spring & Fannin Sts., Times Pub. Co.	WAAF 920 500 Chicago, Ill. Palmer House
KWGG 1200 100 Stockton, Calif. Medico-Dental Bldg.	WAAT 940 500 Jersey City, N. J. Bremer Broadcasting Corp., 50 Journal Sq.
KWJJ 1040 500 Portland, Ore. 622 Salmon St.	WAAW 660 500 Omaha, Neb. Omaha Grain Exchange
KWK 1350 1000 St. Louis, Mo. Thomas Patriek, Inc., Hotel Chase	WABC 860 50000 New York, N. Y. 485 Madison Ave.
KWKC 1370 100 Kansas City, Mo. 3915 Main St.	WABI 1200 100 Bangor, Maine Community Brdsg. Service
KWKH 1100 10000 Shreveport, La. Spring & Fannin Sts., Times Pub. Co.	WABY 1370 100 Albany, N. Y. Hotel Ten Eyck
KWLC 1270 100 Decarah, Iowa Luther College	WACO 1420 100 Waco, Texas Amicable Bldg.
KWSC 1220 1000 Pullman, Wash. State College of Washington	WADC 1320 1000 Akron, Ohio Allen T. Simmons, P. O. Box 29
KWTN 1210 100 Watertown, S. D. Citizens Bank Bldg.	WAGF 1370 100 Dothan, Ala. P. O. Box 25
KWTO 560 5000 Springfield, Mo. KGBX Inc., St. Louis at Kimbrough	WAGM 1420 100 Presque Isle, Me. Aroostook Broadcasting Corp., Main St.
KWYO 1370 100 Sheridan, Wyo. Big Horn Brdsg. Co.	WAIM 1200 100 Anderson, S. C. Anderson College
KXA 760 250 Seattle, Wash. American Radio Tel. Co., 312 Bigelow Bldg.	WAIU 640 500 Columbus, Ohio Deshler-Wallick Hotel
KXL 1420 100 Portland, Ore. KXL Broadcasters, Multnomah Hotel	WALA 1380 500 Mobile, Ala. Pape Brdsg. Corp., P. O. Box 288
KXO 1500 100 El Centro, Calif. F. M. Bowles, Box 140	WALR 1210 100 Zanesville, Ohio First Trust & Savings Bank Bldg.
KXRO 1310 100 Aberdeen, Wash. KXRO, Inc., Hotel Morek	WAML 1310 100 Laurel, Miss. Southland Radio Corp., Box 26
KXYZ 1440 1000 Houston, Texas Gulf Building	WAPI 1140 5000 Birmingham, Ala. Protective Life Bldg.
KYA 1230 1000 San Francisco, Calif. 988 Market St.	WARD 1400 500 Brooklyn, N. Y. 427 Fulton St.
KYW 1020 10000 Philadelphia, Pa. 1622 Chestnut Street	WASH 1270 500 Grand Rapids, Mich. Grand Rapids Natl. Bank Bldg.
NAA 690 1000 Arlington, Va. United States Navy	WATR 1190 100 Waterbury, Conn. WATR Co. Inc., 47 Grand St.
RDN 706 500 San Salvador, E. S. Republic of El Salvador	WAVE 940 1000 Louisville, Ky. WAVE, Inc., 1525 Brown Hotel
TGW 1210 10000 Guatemala, Gua. 2227 Maquinaria 3389	WAWZ 1350 500 Zarephath, N. J. Pillar of Fire
TGX 1400 250 Guatemala City	WAZL 1420 100 Hazleton, Pa. Hazleton Broadcasting Service, Inc.
TIEP 850 500 San Jose, C. R.	WBAA 890 1000 West Lafayette, Ind. Purdue University
TIFA 1050 75 San Jose, C. R.	WBAL 1060 10000 Baltimore, Md. Lexington Bldg., Amer. Radio News Corp.
TIFS 1441 7.5 Cartago, C. R.	WBAP 800 50000 Fort Worth, Texas Ft. Worth Star-Telegram
TIGA 1014 30 Cartago, C. R.	WBAX 1210 100 Wilkes-Barre, Pa. John H. Stenger, Jr., 70 S. Main St.
TIGH 1000 500 San Jose, C. R.	WBBC 1400 500 Brooklyn, N. Y. 552-54 Atlantic Ave.
TIRH 930 50 San Jose, C. R.	WBBL 1210 100 Richmond, Va. 1627 Monument Ave.

NORTH AMERICAN B. C. STATIONS BY CALLS

WBBM 770 50000 Chicago, Ill. 410 N. Michigan Ave.	WCCO 810 50000 Minneapolis, Minn. Nioclet Hotel
WBBR 1300 1000 Brooklyn, N. Y. 124 Columbia Heights	WCFL 970 5000 Chicago, Ill. 686 Lake Shore Drive
WBBZ 1200 100 Ponca City, Okla. C. L. Carrell, 407 W. South Ave.	WCBS 580 500 Charleston, W. Va. WOBU, Inc., Ruffner Hotel
WBCM 1410 500 Bay City, Mich. James E. Davibson, Hotel Wenonah	WKCY 1490 5000 Covington, Ky. 6th & Madison Sts.
WBEN 900 1000 Buffalo, N. Y. WBEN, Inc., Hotel Statler	WCLO 1200 100 Janesville, Wis. 200 E. Milwaukee St.
WBEQ 1318 100 Marquette, Mich. 146 W. Washington St.	WCLS 1310 100 Joliet, Ill. WCLS, Inc., 301 E. Jefferson St.
WBIG 1440 500 Greensboro, N. C. O. Henry Hotel	WCMI 1310 100 Ashland, Ky. Ashland Broadcasting Co., Box 106
WBNO 1200 100 New Orleans, La. Hotel New Orleans	WCNW 1500 100 Brooklyn, N. Y. Arthur Faske, 864-868 Flatbush Ave.
WBNS 1430 500 Columbus, O. 33 N. High St.	WCOA 1340 500 Pensacola, Fla. San Carlos Hotel
WBNX 1350 250 New York, N. Y. 260 E. 161st St.	WCOC 880 500 Meridian, Miss. Box 603
WBNY 1370 100 Buffalo, N. Y. Roy L. Albertson	WCOL 1210 100 Columbus, Ohio WCOL Inc., 33 N. High St.
WBOQ 860 50000 New York, N. Y. Atlantic Broadcasting Corp.	WCOP 1120 500 Boston, Mass. Joseph M. Kirby, Hotel Copley-Plaza
WBOW 1310 100 Terre Haute, Ind. Banks of Wabash, Inc., 19 Beach Block	WCPO 1200 100 Cincinnati, Ohio Continental Radio Co., Hotel Sinton
WBRB 1210 100 Red Bank, N. J. 63 Broad St.	WCRW 1210 100 Chicago, Ill. Clinton R. White, 2756 Pine Grove Ave.
WBRC 930 1000 Birmingham, Ala. Bankhead Hotel	WCSC 1360 500 Charleston, S. C. Francis Marion Hotel
WBRE 1310 100 Wilkes-Barre, Pa. Louis G. Baltimore, 16 N. Main	WCSS 940 1000 Portland, Me. Congress Square Hotel
WBSO 920 500 Babson Park, Mass. Drawer B	WDAE 1220 1000 Tampa, Fla. Tampa Times Co., Tampa Terrace
WBT 1080 50000 Charlotte, N. C. Station WBT, Inc., Wilder Bldg.	WDAF 610 1000 Kansas City, Mo. 1729 Grand Ave.
WBTM 1370 100 Danville, Va. Miller Bldg.	WDAH 1310 100 El Paso, Texas Box 1976
WBZ 990 50000 Boston, Mass. Hotel Bradford	WDAS 1370 100 Philadelphia, Pa. WDAS Brdsg. Co., Inc., 1211 Chestnut St.
WBZA 990 1000 Springfield, Mass. Hotel Kimball	WDAY 940 1000 Fargo, N. D. WDAY, Inc., Black Bldg., 118 Broadway
WCAC 600 500 Storrs, Conn. Connecticut State College	WDBJ 930 1000 Roanoke, Va. Times World Corp., P. O. Box 150
WCAD 1220 500 Canton, N. Y. St. Lawrence University	WDBO 580 1000 Orlando, Fla. P. O. Box 1097
WCAE 1220 1000 Pittsburgh, Pa. P. O. Box 1705	WDEL 1120 250 Wilmington, Del. WDEL, Inc., 10th and King Sts.
WCAL 1250 1000 Northfield, Minn. St. Olaf College	WDEV 550 500 Waterbury, Vt. Harry C. Whitehill, Stowe St.
WCAM 1280 500 Camden, N. J. City of Camden, City Hall	WDGY 1180 1000 Minneapolis, Minn. Dr. Geo. W. Young, 909 W. Broadway
WCAO 600 500 Baltimore, Md. 811 W. Lanvale St.	WDNC 1500 100 Durham, N. C. Washington Duke Hotel
WCAP 1280 500 Asbury Park, N. J. Convention Hall	WDOD 1280 1000 Chattanooga, Tenn. WDOD-Broadcasting Corp., Hotel Patten
WCAT 1200 100 Rapid City, S. D. South Dakota State School of Mines	WDRC 1330 1000 Hartford, Conn. WDRS, Inc., Corning Bldg., 11 Asylum St.
WCAU 1170 50000 Philadelphia, Pa. WCAU Broadcasting Co., 1622 Chestnut	WDSU 1250 1000 New Orleans, La. WDSU Inc., Hotel Monteleone
WCAX 1200 100 Burlington, Vt. 203 College St.	WDZ 1070 100 Tuscola, Ill. James L. Bush, Star Store Bldg.
WCAZ 1070 100 Carthage, Ill. 97 1/2 Adams St.	WEAF 660 50000 New York, N. Y. 30 Rockefeller Plaza
WCBA 1440 500 Allentown, Pa. B. Bryan Musselman, 39-41 10th St.	WEAN 780 500 Providence, R. I. New Crown Hotel
WCBD 1080 5000 Waukegan, Ill. Karcher Hotel	WEBC 1290 1000 Superior, Wis. Spaulding Hotel, Duluth, Minn.
WCBM 1370 100 Baltimore, Md. Keith Theatre Bldg.	WEBQ 1210 100 Harrisburg, Ill. 100 E. Popular St.
WCBS 1420 100 Springfield, Ill. WCBS, Inc., 208 1/2 S. 5th.	WEBR 1310 100 Buffalo, N. Y. Howel Broadcasting Co., Inc., 23 North

NORTH AMERICAN B. C. STATIONS BY CALLS

WEDC 1210 100 Chicago, Ill. Emil Denmark, 3860 Ogden Ave.	WGL 1370 100 Fort Wayne, Ind. F. C. Zieg, 213 W. Main St.
WEED 1420 100 Rocky Mount, N. C. Wm. Avera Wynne, Box 221	WGN 720 50000 Chicago, Ill. WGN, Inc., 435 N. Michigan Ave.
WEEI 590 1000 Boston, Mass. 182 Tremont St.	WGNV 1210 100 Chester, N. Y. Peter Goelet (Orange County)
WEEU 830 1000 Reading, Pa. Berks Broadcasting Co., 533 Penn.	WGPC 1420 100 Albany, Ga. Rylander Theatre Bldg.
WEHC 1420 100 Charlottesville, Va. P. O. Box 221	WGR 550 1000 Buffalo, N. Y. Rand Bldg.
WEHS 1420 100 Cicero, Ill. WEHS, Inc., 6138 W. Cermak Rd.	WGST 890 500 Atlanta, Ga. Ansley Hotel
WELI 900 500 New Haven, Conn. Patrick J. Goode	WGY 790 50000 Schenectady, N. Y. 1 River Road
WELL 1420 100 Battle Creek, Mich. Enquirer News, 38 W. State St.	WHA 940 1000 Madison, Wis. University of Wisconsin, Radio Hall
WEMP 1310 100 Milwaukee, Wis. Milwaukee Brdcastg. Co.	WHAM 1150 50000 Rochester, N. Y. 100 Carlson Road
WENR 870 50000 Chicago, Ill. Merchandise Mart	WHAS 820 50000 Louisville, Ky. 300 W. Liberty St.
WESG 850 1000 Elmira, N. Y. Mark Twain Hotel	WHAT 1310 100 Philadelphia, Pa. Public Ledger Bldg.
WEVD 1300 1000 New York, N. Y. Jewish Daily Forward, Hotel Claridge	WMAZ 1300 500 Troy, N. Y. 8th St.
WEW 760 1000 St. Louis, Mo. St. Louis University, 221 N. Grand Blvd.	WHB 860 1000 Kansas City, Mo. WHB Broadcasting Co., Scarritt Bldg.
WEXL 1310 50 Royal Oak, Mich. 212 W. 6th St.	WHBB 1500 100 Selma, Alabama YMCA Bldg.
WFAA 800 50000 Dallas, Texas Baker Hotel	WHBC 1200 100 Canton, Ohio Edw. P. Graham, 319 Tusc. St., W.
WFAB 1300 1000 New York, N. Y. 154 W. 57th St.	WHBF 1210 100 Rock Island, Ill. Hotel Harms
WFAM 1200 100 South Bend, Ind. South Bend Tribune, 225 W. Colfax Ave.	WHBI 1250 1000 Newark, N. J. 100 Shipman St.
WFAS 1210 100 White Plains, N. Y. Hotel Roger Smith	WHBL 1410 500 Sheboygan, Wis. Press Publishing Co., Press Bldg.
WFBC 1300 1000 Greenville, S. C. Imperial Hotel	WHBQ 1370 100 Memphis, Tenn. Brdcastg. Sta. WNBQ, Inc., Hotel Claridge
WFBG 1310 100 Altoona, Pa. Gable Broadcasting Co., 12th Ave. & 13th St	WHBU 1210 100 Anderson, Ind. Anderson Broadcasting Corp., Box 816
WFBL 1360 1000 Syracuse, N. Y. Onondaga Hotel	WHBY 1200 100 Green Bay, Wis. WHBY, Inc., Bellin Bldg.
WFBM 1230 1000 Indianapolis, Ind. 307 N. Pennsylvania St.	WHDF 1370 100 Calumet, Mich. Box 643
WFBR 1270 500 Baltimore, Md. 7 St. Paul St.	WHDH 830 1000 Boston, Mass. Matheson Radio Co., 62 Boyiston
WFDF 1310 100 Flint, Mich. Union Industrial Bldg.	WHDL 1420 100 Olean, N. Y. Exchange Natl. Bank Bldg.
WFEA 1340 500 Manchester, N. H. Carpenter Hotel	WHEE 740 250 Portsmouth, N. H. Box 522, 39 Congress St.
WFIL 560 1000 Philadelphia, Pa. WFIL Broadcasting Co., 801 Market	WHEC 1430 500 Rochester, N. Y. WHEC, Inc., 40 Franklin St.
WFLA 620 1000 Clearwater, Fla. Box 119	WHEF 1500 100 Kosciusko, Miss. Box 631
WFMD 900 500 Frederick, Md. Francis Scott Key Hotel	WHFC 1420 100 Cicero, Ill. WHFC, Inc., 6138 W. Cermak Road
WGAL 1500 100 Lancaster, Pa. WGAL, Inc., 8 W. King St.	WHIO 1260 1000 Dayton, Ohio 39 S. Ludlow St.
WGAR 1450 500 Cleveland, Ohio WGAR Broadcasting Co., Hotel Statler	WHIS 1410 250 Bluefield, W. Va. Bland St.
WGBB 1210 100 Freeport, N. Y. H. H. Carman, 64 S. Grove St.	WHJB 620 250 Greensburg, Pa. Penn-Albert Hotel, 128 Pa. Ave.
WGBF 630 500 Evansville, Ind. 519 Vine St.	WHK 1390 1000 Cleveland, Ohio 1311 Terminal Tower
WGBI 880 500 Scranton, Pa. 1000 Wyoming Ave.	WHN 1010 1000 New York, N. Y. 1540 Broadway
WGCM 1120 500 Mississippi City Great Southern Golf Club, Box 207	WHO 1000 50000 Des Moines, Iowa Central Brdcastg. Co., 914 Walnut St.
WGES 1360 500 Chicago, Ill. 4000 Washington Blvd.	WHOM 1450 250 Jersey City, N. J. 2870 Hudson Boulevard
WGH 1310 100 Newport News, Va. 2813 Washington Ave.	WHP 1430 500 Harrisburg, Pa. WHP, Inc., 216 Locust St.

NORTH AMERICAN B. C. STATIONS BY CALLS

WIBA 1280 1000 Madison, Wis. 111 King St.	WJTL 1370 100 Atlanta, Ga. Volunteer Life Bldg.
WIBG 970 100 Glenside, Pa. Seaboard Radio Brdcastg. Corp.	WJW 1210 100 Akron, Ohio WJW, Inc., 41 S. High St.
WIBM 1370 100 Jackson, Mich. WIBM, Inc., 306 W. Michigan Ave.	WJZ 760 50000 New York, N. Y. 30 Rockefeller Plaza
WIBU 1210 100 Poynette, Wis. Wm. C. Forrest, R. F. D. No. 3	WKAQ 1240 1000 San Juan, P. R. Radio Corp. of Puerto Rico, Box 1414
WIBW 580 1000 Topeka, Kans. 11th & Topeka Blvd.	WKAR 1040 1000 East Lansing, Mich. Michigan State College
WIBX 1200 100 Utica, N. Y.	WKBB 1500 100 East Dubuque, Ill. Hotel Julien
WIBX , Inc., 1st Natl. Bank Bldg.	WKBH 1380 1000 LaCrosse, Wis. WKBH, Inc., 409 Main St.
WICC 600 500 Bridgeport, Conn. Stratfield Hotel	WKBI 1420 100 Cicero, Ill. WKBI, Inc., 6138 W. Cermak Road
WIL 1200 100 St. Louis, Mo. Melbourne Hotel	WKBN 570 500 Youngstown, Ohio 17 N. Champlon St.
WILL 890 250 Urbana, Ill. University of Illinois	WKBO 1200 100 Harrisburg, Pa. Penn Harris Hotel
WILM 1420 100 Wilmington, Del. 920 King St.	WKBV 1500 100 Richmond, Ind. Knox Radio Corp., Box 308
WIND 560 1000 Gary, Ind. 504 Broadway	WKBW 1480 5000 Buffalo, N. Y. Rand Bldg.
WINS 1180 1000 New York, N. Y. 114 E. 58th St., Hearst Radio, Inc.	WKBZ 1500 100 Muskegon, Mich. Occidental Hotel Bldg.
WIOD 1300 1000 Miami, Fla. News Tower, Biscayne Blvd.	WKEU 1500 100 Griffin, Ga. Radio Station WKEU, 906 Hill St.
WIP 610 1000 Philadelphia, Pa. Gimbel Bldg., 9th & Chestnut Sts.	WKJC 1200 100 Lancaster, Pa. 16 W. King St.
WIRE 1400 500 Indianapolis, Ind. 540 N. Meridian St.	WKOK 1210 100 Sunbury, Pa. 1150 N. Front St.
WIS 1010 500 Columbia, S. C. Station WIS, Inc., Box 635	WKRC 550 1000 Cincinnati, Ohio WKRC, Inc., Hotel Alms
WISN 1120 250 Milwaukee, Wis. 123 W. Michigan St., Hearst Radio, Inc.	WKY 900 1000 Oklahoma City, Okla. Plaza Court Bldg.
WJAC 1310 100 Johnstown, Pa. WJAC, Inc., Locust St.	WKZO 590 1000 Kalamazoo, Mich. John E. Fetzer, Burdick Hotel
WJAG 1060 1000 Norfolk, Neb. Norfolk Daily News	WLAC 1470 5000 Nashville, Tenn. WLAC, Inc., 159—4th Ave., No.
WJAR 890 500 Providence, R. I. Outlet Co., Weybossett St.	WLAP 1420 100 Lexington, Ky. Main & Esplanade
WJAS 1290 1000 Pittsburgh, Pa. Chamber of Commerce Bldg.	WLB 1250 1000 Minneapolis, Minn. University of Minnesota
WJAX 900 1000 Jacksonville, Fla. City of Jacksonville	WLBC 1310 50 Muncie, Ind. D. A. Burton, Anthony Bldg.
WJAY 610 500 Cleveland, Ohio 1224 Huron Road	WLBK 1420 100 Kansas City, Kans. 901 N. 8th Street
WJBC 1200 100 Bloomington, Ill. Kaskaskia Broadcasting Co.	WLBL 900 2500 Stevens Point, Wis. Fox Theater Bldg.
WJBK 1500 100 Detroit, Mich. 6559 Hamilton Ave.	WLBZ 620 500 Bangor, Me. Maine Broadcasting Co., Inc., 100 Ma'n
WJBL 1200 100 Decatur, Ill. Gushard Bldg.	WLEU 1420 100 Erie, Pa. Commerce Building
WJBO 1420 100 Baton Rouge, La. 334 Florida Street	WLLH 1370 100 Lowell, Mass. Merrimac Brdcastg. Co., Box D
WJBW 1200 100 New Orleans, La. C. C. Carlson, Godchaux Bldg.	WLNH 1310 100 Laconia, N. H. 523 Main St.
WJBY 1210 100 Gadsden, Ala. Gadsden Broadcasting Co., 112 N. 8th St.	WLS 870 50000 Chicago, Ill. 1230 W. Washington Blvd.
WJDX 1270 1000 Jackson, Miss. Lamar Life Bldg.	WLTH 1400 500 Brooklyn, N. Y. 105 2nd Ave., (N. Y. City)
WJEJ 1210 100 Hagerstown, Md. Lovely Dame Bldg.	WLVA 1200 100 Lynchburg, Va. 915 Main St.
WJIM 1210 100 Lansing, Mich. Capital City Brdcastg. Co.	WLW 700 500000 Cincinnati, Ohio 1329 Arlington St.
WJJD 1130 20000 Chicago, Ill. WJJD, Inc., 201 N. Wells St.	WLWL 1100 5000 New York, N. Y. 415 W. 59th St.
WJMS 1420 100 Ironwood, Mich. WJMS, Inc., St. James Hotel	WMAL 630 250 Washington, D. C. 712—11th St., N. W.
WJR 750 50000 Detroit, Mich. WJR, Inc., Fisher Bldg.	WMAQ 670 50000 Chicago, Ill. Merchandise Mart
WJSV 1460 10000 Washington, D. C. Earle Building	

NORTH AMERICAN B. C. STATIONS BY CALLS

WMAS 1420 100 Springfield, Mass. WMAS, Inc., 70 Chestnut St.	WNRI 1200 100 Newport, R. I. S. George Webb, 21 Bull St.
WMAZ 1180 1000 Macon, Ga. 211 Cotton Ave.	WNYC 810 1000 New York, N. Y. Centre & Duane Sts.
WMBC 1420 100 Detroit, Mich. 7310 Woodward Ave.	WOAI 1190 50000 San Antonio, Texas Southland Industries, Inc., 1038 Navarro
WMBD 1440 500 Peoria, Ill. 114 N. Madison St.	WOC 1370 108 Davenport, Iowa 1002 Brady Street
WMBG 1210 100 Richmond, Va. 914 W. Broad St.	WOCL 1210 50 Jamestown, N. Y. A. E. Newton, 840 N. Main St.
WMBH 1420 100 Joplin, Mo. 1334 Roosevelt St.	WOI 640 5000 Ames, Iowa Iowa State College
WMBI 1080 5000 Chicago, Ill. 153 Institute Place	WOKO 1430 500 Albany, N. Y. WOKO, Inc., Hotel Ten Eyck
WMBO 1310 100 Auburn, N. Y. WMBO, Inc., Metcalf Bldg.	WOL 1310-108 Washington, D. C. American Broadcasting Co., Annapolis Hotel
WMBQ 1580 100 Brooklyn, N. Y. Metropolitan Brcdstg. Corp., 95 Leonard St.	WOMT 1210 100 Manitowoc, Wis. Francis M. Kadow, Box 326
WMBR 1370 100 Jacksonville, Fla. F. J. Reynolds, Carling Hotel	WOOD 1270 500 Grand Rapids, Mich. Grand Rapids Natl. Bank Bldg.
WMC 780 1000 Memphis, Tenn. WMC, Inc., Hotel Gayoso	WOPI 1500 100 Bristol, Tenn. 22nd & State Sts.
WMCA 570 580 New York, N. Y. 1697 Broadway	WOR 710 50008 Newark, N. J. 147 Market St.
WMEX 1590 100 Boston, Mass. The Northern Corp., Hotel Manger	WORC 1280 500 Worcester, Mass. Alfred F. Kleindienst, 60 Franklin St.
WMFD 1370 100 Wilmington, N. C. Hotel Wilmington	WORK 1320 1000 York, Pa. York Broadcasting Co., 15 S. Beaver St.
WMFF 1310 100 Plattsburg, N. Y. Hotel Cumberland	WOS 630 500 Jefferson City, Mo. State Highway Control, Capitol Bldg.
WMFG 1210 100 Hibbing, Minn. Head of the Lakes Brcdstg. Co.	WOSU 570 750 Columbus, Ohio Ohio State University
WMFJ 1420 100 Daytona Beach, Fla. W. Wright Esch	WOV 1130 1000 New York, N. Y. 132 West 43rd St.
WMFN 1210 100 Clarksdale, Miss. Attala Brcdstg. Corp., Box 180	WOW 590 1000 Omaha, Neb. Woodmen of the World, 4th and Farnam
WMFO 1370 100 Decatur, Ala. James R. Doss, Jr.	WOWO 1160 10000 Fort Wayne, Ind. Main Auto Supply Co., 213 W. Main
WMFR 1200 100 High Point, N. C. Hart & Nelson	WPAD 1420 100 Paducah, Ky. 2201 Broadway
WMMN 890 500 Fairmount, W. Va. West Va. Brcdstg. Corp., 208 Main St.	WPAR 1420 100 Parkersburg, W. Va. Chancellor Hotel
WMPC 1200 100 Lapeer, Mich. 81 Liberty St.	WPAX 1210 250 Thomasville, Ga. H. Wimpy, 135 E. Jackson St.
WMT 680 1000 Cedar Rapids, Iowa Hotel Montrose	WPAY 1370 180 Portsmouth, Ohio Veebee Corp.
WNAC 1230 1000 Boston, Mass. 21 Brookline Ave.	WPEN 920 250 Philadelphia, Pa. 22nd & Walnut Sts.
WNAD 1010 1000 Norman, Okla. University of Oklahoma	WPFB 1370 100 Hattiesburg, Miss. Forest Brcdstg. Co., 512 Main St.
WNAX 570 1000 Yankton, S. D. House of Gurney, Inc., 2nd and Capital St.	WPG 1100 5000 Atlantic City, N. J. City of Atlantic City, Convention Hall
WNBC 1380 250 New Britain, Conn. Wm. J. Sanders, 147 Main St.	WPHR 880 500 Petersburg, Va. WLBG, Inc., Medical Arts Bldg.
WNBF 1500 100 Binghamton, N. Y. Arlington Hotel	WPRO 630 250 Providence, R. I. Cherry & Webb Brcdstg. Co., 15 Chestnut
WNBH 1310 100 New Bedford, Mass. 251 Union St	WPRP 1420 100 Ponce, P. R. Julio M. Conesa
WNBK 1430 500 Memphis, Tenn. Memphis Broadcasting Co., Hotel DeVoy	WPTF 680 5000 Raleigh, N. C. 324 Fayetteville St.
WNBX 1260 1000 Springfield, Vt. WNBX Broadcasting Corp., 39 Main St.	WQAM 560 1000 Miami, Fla. Miami Brcdstg. Co., Inc., 327 N. E. 1st Ave.
WNBZ 1230 100 Saranac Lake, N. Y. Smith & Mace, 70 Broadway	WQAN 880 250 Scranton, Pa. Scranton Times, 149 Penn Ave.
WNEL 1290 500 San Juan, P. R. Box 1252	WQBC 1360 1000 Vicksburg, Miss. Delta Broadcasting Co., Hotel Vicksburg
WNEW 1250 1000 Newark, N. J. Wodaam Corp., 100 Shipman St.	WQDM 1370 100 St. Albans, Vt. 42 N. Main St.
WNOX 560 1000 Knoxville, Tenn. WNOX, Inc., Hotel Andrew Johnson	WRAK 1370 100 Williamsport, Pa. WRAK, Inc., 244 W. 4th St.
WNRA 1420 100 Muscle Shoals, Ala. P. O. Box 486, Sheffield, Ala.	WRAW 1310 100 Reading, Pa. Reading Broadcasting Co., 533 Penn St.

NORTH AMERICAN B. C. STATIONS BY CALLS

WRAX 920 250 Philadelphia, Pa.
WRAX Broadcasting Co., 217 S. Broad St.

WRBL 1200 100 Columbus, Ga.
Royal Theatre Bldg.

WRC 950 500 Washington, D. C.
National Press Bldg.

WRDO 1370 100 Augusta, Me.
WRDO, Inc., Augusta House

WRDW 1500 100 Augusta, Ga.
Augusta Brdcastg. Co., 309 8th St.

WREC 600 1000 Memphis, Tenn.
WREC, Inc., Hotel Peabody

WREN 1220 1000 Lawrence, Kans.
WREN Brdcastg. Co., 7th and Vermont St.

WRGA 1500 100 Rome, Ga.
10 Third Ave.

WRJN 1370 100 Racine, Wis.
Racine Broadcasting Corp., Hotel Racine

WROK 1410 500 Rockford, Ill.
109 So. Water St.

WROL 1310 100 Knoxville, Tenn.
Stuart Broadcasting Corp., 524 S. Gay

WRR 1260 500 Dallas, Texas
City of Dallas, Southland Life Bldg.

WRUF 830 5000 Gainesville, Fla.
State University

WRVA 1110 5000 Richmond, Va.
Larus & Bros Co., Inc., 22nd and Gary St.

WSAI 1330 1000 Cincinnati, Ohio
Crosley Radio Corp., 1329 Arlington

WSAJ 1310 100 Grove City, Pa.
Grove City College, 418 Poplar St.

WSAN 1440 500 Allentown, Pa.
WSAN, Inc., 39 10th St.

WSAR 1450 250 Fall River, Mass.
Academy of Music Bldg.

WSAZ 1190 1000 Huntington, W. Va.
WSAZ, Inc., P. O. Box 729

WSB 740 50000 Atlanta, Ga.
Atlanta Journal, 7 N. Forsyth St.

WSBC 1210 100 Chicago, Ill.
Gene T. Dyer, 1258 S. Michigan Ave.

WSBT 1360 500 South Bend, Ind.
South Bend Tribune, 225 W. Colfax Ave.

WSFA 1410 500 Montgomery, Ala.
Jefferson Davis Hotel

WSGN 1310 100 Birmingham, Ala.
Tutwiler Hotel

WSIX 1210 100 Springfield, Tenn.
638 Tire & Vulcanizing Co.

WSJS 1310 100 Winston-Salem, N. C.
Winston-Salem Journal Co., 416 N. Marshall

WSM 650 50000 Nashville, Tenn.
301-7th Ave. No.

WSMB 1320 500 New Orleans, La.
WSMB, Inc., Maison Blanche Bldg.

WSMK 1380 200 Dayton, Ohio
WSMK, Inc., 121 N. Main St.

WSOC 1210 100 Charlotte, N. C.
WSOC, Inc., 516 W. Trade St.

WSPA 920 1000 Spartanburg, S. C.
Virgil V. Evans, Ravenel and Avant St.

WSPD 1340 1000 Toledo, Ohio
Toledo Broadcasting Co., 505 Jefferson

WSUI 880 500 Iowa City, Iowa
State University of Iowa

WSUN 620 1000 St. Petersburg, Fla.
Recreation Pier

WSVA 550 500 Harrisonburg, Va.
Main & Market Sts.

WSVS 1370 50 Buffalo, N. Y.
666 E. Delavan Ave.

WSYV 1500 100 Rutland, Vt.
Phillip Weiss Music Co., Box 328

WSYR 570 250 Syracuse, N. Y.
315 Starret-Syracuse Bldg.

WTAD 900 500 Quincy, Ill.
Illinois Brdcastg. Corp., State and 6th

WTAG 500 500 Worcester, Mass.
18 Franklin St.

WTAL 1310 100 Tallahassee, Fla.
Florida Capitol Broadcasters, Inc.

WTAM 1070 50000 Cleveland, Ohio
1367 E. 6th St.

WTAQ 1330 1000 Eau Claire, Wis.
WHBY Inc., Hotel Eau Claire

WTAR 780 500 Norfolk, Va.
WTAR Radio Corp., Bank of Com. Bldg.

WTAW 1120 500 College Station, Tex.
Agricultural and Mechanical College

WTAX 1210 100 Springfield, Ill.
WTAX, Inc., 416 E. Capitol Ave.

WTBO 800 250 Cumberland, Md.
Associated Brdcastg. Corp., Box 794

WTCN 1250 1000 Minneapolis, Minn.
Wesley Temple Bldg.

WTEL 1310 100 Philadelphia, Pa.
3701 N. Broad Street

WTFI 1450 500 Athens, Ga.
Liberty Brdcastg. Co., 133 E. Washington St.

WTTIC 1040 50000 Hartford, Conn.
26 Grove St.

WTJS 1310 100 Jackson, Tenn.
Sun Publishing Co., Sun Bldg.

WTMJ 620 1000 Milwaukee, Wis.
The Journal Co., 333 W. State St.

WTMV 1500 100 East St. Louis, Ill.
Mississippi Valley Brdcastg. Co.

WTNJ 1280 500 Trenton, N. J.
Trenton Brdcastg. Co., Stacy Trent Hotel

WTOC 1260 1000 Savannah, Ga.
Savannah Brdcastg. Co., De Soto Hotel

WTRC 1310 50 Elkhart, Ind.
Truth Pub. Co., Inc., Hotel Elkhart

WVFW 1400 500 Brooklyn, N. Y.
Paramount Brdcastg. Co., 4 & 5 Court Sq.

WWAE 1200 100 Hammond, Ind.
402 Hammond Bldg.

WWC 1420 1000 Spartanburg, S. C.
Virgil V. Evans, Ravenel & Avant St.

WWJ 920 1000 Detroit, Mich.
Evening News Assn., 616 Lafayette Bldv.

WWL 850 10000 New Orleans, La.
Loyola University, Roosevelt Hotel

WWNC 570 1000 Asheville, N. C.
Citizen Brdcastg. Co., Inc., Flatiron Bldg.

WWRL 1500 100 Woodside, N. Y.
41-30-58th St.

WWSW 1500 100 Pittsburgh, Pa.
Hotel Keystone

WWVA 1160 5000 Wheeling, W. Va.
Hawley Bldg.

WXYZ 1240 1000 Detroit, Mich.
Macabees Bldg.

W1XBS 1530 1000 Waterbury, Conn.
61 Leavenworth St., Amer. Republican, Inc.

W2XR 1550 1000 Long Island City, N. Y.
Scientific Brdcastg. Serv., 41 Park Row, N. Y.

W6XAI 1550 1000 Bakersfield, Calif.
Pioneer Mercantile Co.

W9XBY 1530 1000 Kansas City, Mo.
106 West 14th St.

XEA 1060 125 Guadalajara, Jal.
Alberto Palos Souza, Apdo. 197

NORTH AMERICAN B. C. STATIONS BY CALLS

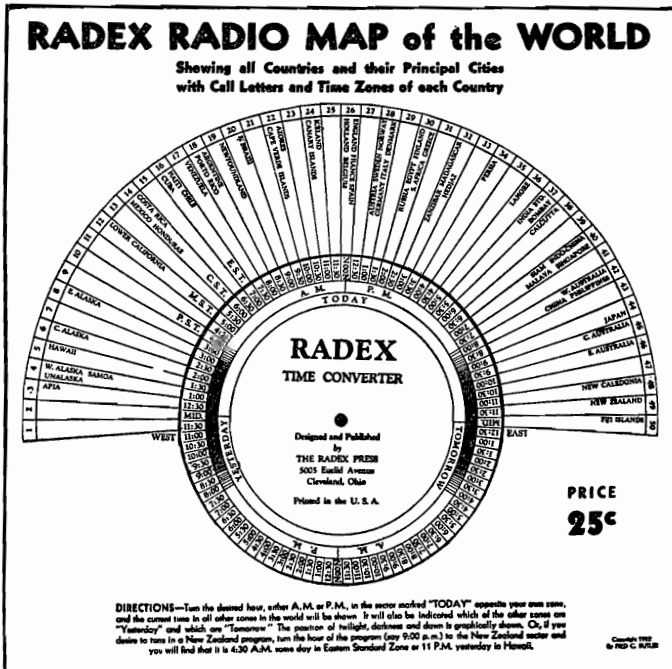
XEAA 920 200 Mexicali, B. C. P. O. Box 714 (Calxico, Calif.)	XEMO 860 5000 Tijuana, B. C. P. O. Box 202, San Diego, Calif.
XEAF 990 500 Negales, Sen. Francisco G. Elias, Hotel Central	XEMX 1280 12 Mexico City, D. F. Alfonso T. Avalos, Salamanca 87
XEAI 1240 100 Mexico City, D. F. Carlos Gonzales Caballero, Insurgentes 366	XEMZ 1210 250 Tijuana, L. C. Ave. "D" No. 542
XEAJ 1310 15 Oaxaca, Oax. Enrique M. Cribuela, 3a, Gurrero 18	XEN 710 1000 Mexico City, D. F. Cerveceria Modelo Ave. Juarez 77
XEAM 750 7.5 Matamores, Tams. Edificio Banco Longoria	XENT 910 65000 Nueve Laredo, Tams. Box 410, Laredo, Texas
XEAO 560 250 Mexicali, B. C. Luis L. Castro, C. Altamirano 156	XEOK 760 250 Tijuana, L. C. Carlos de la Sierra, Calle 5a 312
XEAW 960 50000 Reynosa, Tams. Apartado No. 6	XEOX 640 250 Saltillo, Coah. Victoria No. 4, Altos
XEAZ 1420 7 Guanajuato, Gto. Antonio Zavala, Pasco de la Presa 85	XEP 840 500 Mexico City, D. F. Cla Difusora de Mexico S. A., Rembrandt 11
XEB 1030 10000 Mexico City, D. F. El Buen Tono, S. A., Apdo. 79-44	XEPN 590 50000 Piedras Negras, Coah. Piedras Negras Brdstg. Co., Box 360
XEC 1160 30 Tijuana, B. C. Luis F. Enciso, Teatro Zaragoza	XES 990 250 Tampico, Tams. Fernando Sada, Box 309
XECW 1310 10 Mexico City, D. F. Maria Elena Bravode Cordero Ave. Juarez 104	XET 690 500 Monterrey, N. L. P. O. Box 203, Hidalgo
XED 1155 2500 Guadalajara, Jal. Cla. Radiofonografica, Apdo. 197	XETB 1310 125 Torreon, Coah. P. O. Box 225
XEE 1210 50 Durango, Dgo. 20 de Nov. 112 (Apdo. 148)	XETF 1220 12 Veracruz, Ver. Jose M. Lopez, Independencia 28
XEFA 1180 500 Mexico City, D. F. Eduardo Limon Segul, Meditarraneo 236	XETH 1210 100 Puebla, Pue. Ramon Huerta G., Calle 17, Oriente 11
XEFB 1420 100 Monterrey, N. L. Jesus Quintanilla, P. O. Box 317	XETW 820 500 Mexico City, D. F. Rafael M. Pena, Ave. 16 de Sep. 83
XEFC 560 100 Merida, Yuc. J. Molina Font. Calle 59, 517	XEU 1010 250 Veracruz, Ver. Fernando Pazos Sosa, Independencia 98
XEFE 850 250 Laredo, Tams. R. T. Carranza, Km. 4 Carretera Laredo Mt.	XEW 890 50000 Mexico City, D. F. P. O. Box 2516
XEFI 1440 250 Chihuahua, Chih. Feliciano Lopez Isles, Ap. 157	XEWZ 1150 100 Mexico City, D. F. P. O. Box 291
XEFJ 1230 100 Monterrey, N. L. R. Junco de la Vega, P. O. Box 186	XEX 1310 125 Monterrey, N. L. L. F. Petit Jean, P. O. Box 10
XEFO 940 5000 Mexico City, D. F. Reforma No. 137	XEY 1000 10 Merida, Yuc. Calle 64, Numero 568
XEFV 1210 100 Jaurez, Chih. Cordova & Prieto, Ave. Ferrocarril 104	KEYZ 780 10000 Mexico City, D. F. Angel M. Diez, Ave. Juarez 48
XEFW 1310 250 Tampico, Tams. J. E. Martinez, Salvador Diaz Miron 6	KEZ 630 500 Merida, Yuc. Jorge L. Falomeque, Estamores Ctd 214
XEFZ 1370 100 Mexico City, D. F. Manuel Zetina, Cedro & Nonoalco No. 344	KEZZ 1370 100 San Luis Potosi, SLP Emilio Delgado R. Ave. Chicosein 32
XEG 1270 200 Ensenada, B. C. Juan C. Chavez	XFA 1310 5 Aguascalientes, Ags. A. Postal 92
XEH 1150 250 Monterrey, N. L. Tarnava y Cia, P. O. Box 147	XFB 1270 250 Jalapa, Ver. Gobierno del Estado de Veracruz
XEI 1370 125 Morelia, Mich. Carlos Gutierrez M., F. I. Madero 545	XFC 810 350 Aguascalientes, Ags. Gobierno del Estado de Aguascalientes
XEJ 1020 1000 Juarez, Chih. Juan G. Buttner, P. O. Box 111	XFD 1340 350 Jalapa, Ver. Gobierno Estado de Veracruz
XEK 990 100 Mexico City, D. F. Arturo Martinez, Jalapa No. 51	XFO 940 5000 Mexico City, D. F. Nat. Rev. Party, Ave. Morelos 110
XEKL 1240 500 Leon, Guan. 5 de Mayo 26	XFX 610 1090 Mexico City, D. F. Secretaria de Educacion Publica
XEL 1100 250 Mexico City, D. F. Calzada del Rosel No. 1	YNLF 1275 20 Managua, Nicaragua
XELA 1240 50 Saltillo, Coah. Enrique Gomez, Chauhtemos 28 Sur	YNOP 1230 100 Managua, Nicaragua
XELO 1110 10000 Piedras Negras, Coah. Piedras Negras Brdstg. Co.	YNVA 950 30 Managua, Nicaragua
XEMA 1080 50 Tampico, Tams. Manuel M. Pier, Aretsanos 10	

In the December issue, the foreign broadcasting stations will be listed. The Short Wave stations will appear again in January.

BEST SHORTWAVE BROADCASTING STATIONS BY CALL LETTERS

Frequencies are given in megacycles and the time is Eastern Standard.

CEC, Santiago, Chile, 10.670. Sun., 2030-2100.	DJN, Berlin, Germany, 9.540. 0030-0215; 0345-0715; 1705-2245.	Tues., 2115-2315; Sun., 1745-1945.
CJRO, Winnipeg, Man., 6.150. Sun., 1500-2200; other days, 2000-2400.	DJQ, Berlin, Germany, 15.280. 0800-1130.	HIH, San Pedro de Macoris, D. R., 6.800. 1600-2030.
CJRX, Winnipeg, Man., 11.720. Sun., 1500-2200; other days, 2000-2400.	EAQ, Madrid, Spain, 9.862. 1730-1900; Sat., 1200-1400.	HIX, Santo Domingo, D. R., 5.980. Tues., Fri., 2000-2200.
COCB, Havana, Cuba, 6.130. Sun., 1700-2300; weekdays, 1100-2400.	GSB, Daventry, England, 9.510. 0115-0315; 1215-1500; 1515-1645.	HIZ, Santo Domingo, D. R., 6.315. Sat., 2300-0100; daily exc. Sun., 1700-1800.
COCH, Havana, Cuba, 9.428. Daily 1000-1200; 1600-1800; 2100-2200.	GSC, Daventry, England, 9.580. 1800-2000; 2200-2300.	HJ1AB, Barranquilla, Colombia, 6.447. 1700-2200.
COCO, Havana, Cuba, 6.010. Daily 1600-1900.	GSD, Daventry, England, 11.750. 0115-0315; 1215-1600; 1800-2000 2200-2300.	HJ1AB, Cartagena, Colombia, 7.280. 1945-2115.
CO9GC, Santiago, Cuba, 6.150. Sun., 0000-0200.	GSE, Daventry, England, 11.860. 1100-1200.	HJ1AB, Cartagena, Colombia, 6.115. Sun. at 0400; Mon., 2200-2400; Wed., 2000-2200.
CO9JQ, Camaguey, Cuba, 8.665.	GSF, Daventry, England, 15.140. 0900-1200; 1615-1745; 0600-0845.	HJ1AB, Barranquilla, Colombia, 6.042. 1900-2200.
CO9WR, Sancti-Spiritus, Cuba, 11.800.	GSG, Daventry, England, 17.790. 0900-1045; 0600-0845.	HJ1AB, Cienega, Colombia, 6.300. Tues., Fri., 1945-2200.
CRCX, Bowmanville, Ont., 6.090. Daily 1830-2330.	GSL, Daventry, England, 6.110. 2200-2300.	HJ2ABC, Cucuta, Colombia, 5.975. Daily exc. Sun., 1800-2100.
CT1AA, Lisbon, Portugal, 9.600. Tues., Thurs., Sat., 1630-1900.	HAS3, Budapest, Hungary, 15.370. Sun., 0900-1000.	HJ3AB, Bogota, Colombia, 7.390. 1930-2300.
DJA, Berlin, Germany, 9.560. 0030-0215; 0800-1130; 1705-2115.	HAT4, Budapest, Hungary, 9.125. Sun., 1800-1900.	HJ3AB, Bogota, Colombia, 6.200. 1900-2300.
DJB, Berlin, Germany, 15.200. 0345-0715; 0800-1030; 2230-2330.	HBL, Geneva, Switz., 9.595. Sat., 1730-1815.	HJ3ABH, Bogota, Colombia, 6.012. Sun., 1600-2100; other days, 1800-2300.
DJC, Berlin, Germany, 6.020. 1200-1630; 2130-2245.	HBP, Geneva, Switz., 7.797. Sat., 1730-1815.	HJ4ABA, Medellin, Colombia, 11.720. 1130-1300; 1830-2230.
DJD, Berlin, Germany, 11.770. 1200-1630; 1705-2245.	HCBJ, Quito, Ecuador, 8.214. Daily exc. Mon., 1915-2315.	HJ4ABC, Pereira, Colombia, 6.230. 1900-2000.
DJE, Berlin, Germany, 17.760. 0800-1130.	HC2ET, Guayaquil, Ecuador, 4.600. Wed., Sat., 2130-2300.	HJ4ABE, Medellin, Colombia, 5.900. 1900-2300.
	HC2RL, Guayaquil, Ecuador, 6.659.	



Just turn the dial to the time in your zone and—Presto! Change—there is the time for every other place in the world.

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HJ4ABL, Manizales, Colombia, 6.100. Sat., 2300-2430.
HJ5ABD, Cali, Colombia, 6.490. Thurs., Sat., Sun., 1900-2100.
HP5B, Panama City, Panama, 6.030. 1900-2200.
HP5J, Panama City, Panama, 9.590. 1930-2200.
HVJ, Vatican City, 5.970. Sun., 0500-0530. 15.120. Tests late afternoons.
I2RO, Rome, Italy, 9.630. Mon., Wed., Fri., 1800-1930.
JVH, Nazaki, Japan, 14.640. 0000-0100. Mon., Thurs., 1600-1700.
JVM, Nazaki, Japan, 10.740. Daily, 0400-0745.
LKJ1, Jeloy, Norway, 9.540. 0500-0800.
OAX4D, Lima, Peru, 5.780. Wed., Sat., 2100-2330.
ORK, Brussels, Belgium, 10.330. 1200-1400.
PCJ, Hilversum, Netherlands, 15.220. Sun., 0730-1000; Tues., 0300-0600; Wed., 0700-1100.
PHI, Hilversum, Netherlands, 11.730. 0830-1100, daily exc. Tues. and Wed.
PRADO, Riobamba, Ecuador, 6.620. Thurs., 2100-2330.
PRF5, Rio de Janeiro, Brazil, 9.505. 1700-1745.
RNE, Moscow, USSR, 12.000. Daily, 1400-1800; Sun., 0700-1100; Wed., 0600-0700.
RV15, Khabarovsk, USSR., 4.273. Daily, 0300-0900.
TIEP, San Jose, Costa Rica., 6.710. 1900-2200.
TIGPH, San Jose, Costa Rica, 5.820. 1900-2200.
TIPG, San Jose, Costa Rica, 6.355.
TIRCC, San Jose, Costa Rica, 6.550. Daily, 1800-1900. Sun., Thurs., 2000-2100; Sun., 1100-1300.
VK2ME, Sydney, Australia, 9.585. Sun., 0000-0200; 0430-0830; 0900-1100.
VK3LR, Melbourne, Australia, 9.580. Mon., Tues., Wed., Thurs., 0315-0730; Fri., 2230-0200; Sat., 0500-0730.
VK3ME, Melbourne, Australia, 9.503. Wed., Thurs., Fri., Sat., 0500-0700.
VPD, Suva, Fiji, 13.045. 0030-0130.
VUB, Bombay, India, 9.565. Sun., near 7 a.m.
W1XAL, Boston, Mass., 11.790. Tues., Thurs., Sun., 1830-2030.
W1XK, Millis, Mass., 9.570. 0700-0100.
W2XAD, Schenectady, N. Y., 1840-2300.
W2XAF, Schenectady, N. Y., 9.530. 1840-2300.
W2XE, Wayne, N. J., 6.120. 2000-2300. 11.830: 1700-1900. 15.270: 1000-1700.
W3XAL, Bound Brook, N. J., 6.100. Mon., Wed., Sat., 1700-0100. 17.780: Tues., Thurs., Fri., 1500-1600.
W3XAU, Philadelphia, Pa., 9.590: 1200-2000.
W3XL, Bound Brook, N. J., 17.310: 1100-1700.
W4XB, Miami, Fla., 6.040. Sun., 1130-1500; 1700-2400. Other days, 1200-1400; 1730-2400.
W8XK, Pittsburgh, Pa., 6.140: 2100-0100. 11.870: 1700-2100. 15.210: 0900-1900. 21.540: 0700-0900.
W8XAL, Cincinnati, Ohio, 6.060. Sun., 0700-1900; 2200-0130. Other days, 0630-1900; 2200-0200.
W9XF, Chicago, Ill., 6.100: Monday to Friday, 0100-0200; 2100-2200; Sat., 0100-0200; Sun., 0100-0230; 2100-2200.
XECH, Mexico City, D. F., 7.380: Sun., 1800-1900.
XECW, Mexico City, D. F., 5.980: daily 2300-2400.
YV2RC, Caracas, Venezuela, 6.112. 1700-2145.
YV3RC, Caracas, Venezuela, 6.150. 1700-2200.
YV4RC, Caracas, Venezuela, 6.375. 1630-2230.
YV5RMO, Maracaibo, Venezuela, 5.850. Daily exc. Sun., 1700-2130.
YV6RV, Valencia, Venezuela, 6.520: 1700-2200.
YVQ, Maracay, Venez., 6.672. Sat., 2000-2100.
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Enclosed find \$.....for which send me postpaid my choice of your offers as checked below:

- Program "slates" 1 for 10c 2 for 15c 4 for 25c
- One Radio World Map and Time Converter..... 25c
- One copy of the next RADEX 25c
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Per year outside the U. S. A., \$2.50
- Beginner's Story of Radio50

(If you live in Ohio, add 3% for State Sales Tax. No tax on Subscriptions.)

Write Name Plainly

Street and Number.....

City and State



Sometimes I think there ought to be a law to make everyone do a little studying every week. I didn't think that a year ago because it looked like all the cards were stacked against me. But I am surely making good money now. Maybe my story will show you the way to larger earnings also.

I THOUGHT RADIO WAS A PLAYTHING

But Now My Eyes Are Opened, and I'm Making Over \$40.00 a Week!

\$40 a week! Man alive, a year ago I thought anyone making so much was just plain lucky.

Twelve months ago I was just barely getting by. It was the same old story—a little job; a salary as small as the job.

If you had told me that twelve months later I would be making \$40 a week in my own Radio business—I'd thought you were crazy.

But I am getting ahead of my story—let me tell you how it all started. I was hard up a year ago because I had been kidding myself—that's all—not because I had to be. I thought a fellow either had to be lucky or have a string of college degrees to make good money.

One day I picked up a magazine and an ad attracted me because it seemed to fit my case. It said, "I will show you how to start a spare time or full time Radio service business of your own WITHOUT CAPITAL."

"They're trying to kid somebody," I thought, "but I'll find out what it's all about."

I wrote in and within a few days received a 64-page book telling about the opportunities in Radio, how I could prepare right at home in my spare time, and how they would show me how to start making money in my neighborhood selling and repairing Radio sets. It would have sounded too good to be true if the promises had not been backed up by nearly 100 letters from fellows who had taken their course and were very enthusiastic about it.

What has happened since seems almost like a dream. I started to take their course and soon I was ready to start making money in my neighborhood—as much as \$5 and \$15 a week. It wasn't long until I had saved enough money to start a little business of my own.

That business has since grown to the point where I am clearing an average of \$40 a week. All this took place under the watchful guidance of my friends at the National Radio Institute. They also offered to train me for other lines. Broadcasting Stations, Radio Manufacturers, Operating on Board Ship, Servicing Sets, Aviation Radio, Television, Short Wave, Automobile and Police Radio, Loud Speaker Systems are other fields their training covers. And to think, until the day I wrote for that book, I'd been wailing, "I never had a chance and will never have one because I have no pull or a good education!"

Friend—you may not be as bad off as I was—

but think it over—are you satisfied? Are you making as much money as you need? Would you sign a contract to stay where you are for the next ten years at the same salary? Those are the things you have to think about—because no one is going to make it his business to push you ahead—you must make it your own business.

Take my tip—write for their book, "Rich Rewards in Radio." It won't cost you anything except a postage stamp. It shows you a lot of things which I don't believe you know now about Radio—a lot of facts and figures on the opportunities in this new, fast-growing field. Where the jobs are, what they pay, how to get ready for them. Beginners as well as experienced men are making as much as \$500 to \$1,500 a year more as a result of N.R.I. training. And at the same time they send the book "Rich Rewards in Radio" they'll send you, without any cost or obligation, a Free Lesson to prove that their training is easy, practical, fascinating. The lesson they send "Radio Receiving Troubles—the Cause and Remedy" is valuable. And when you see how simple this lesson is to understand you'll know why many fellows with less than a grammar school education have mastered N.R.I. training and are now making good money as Radio Experts.

You are not placing yourself under any obligation by writing for this material as they will gladly send it to anyone who is ambitious and wants to get ahead. Mail the coupon in an envelope or paste it on a 1c postcard. Just address Mr. J. E. Smith, President, National Radio Institute, Dept. 5MO, Washington, D. C.

J. E. SMITH, President,
National Radio Institute
Dept. 5MO, Washington, D. C.

Dear Mr. Smith:

Without obligation, send me the sample lesson and your free book about spare time and full time Radio opportunities, and how I can train for them at home in spare time. (Please print plainly)

Name..... Age.....

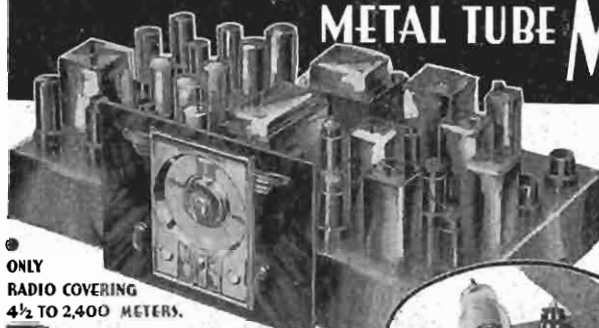
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EVERYWHERE, radio enthusiasts are praising this amazingly beautiful, bigger, better, more powerful, super selective, 18-tube 6-tuning range radio. They say it is a tremendous improvement over Midwest's 16-tube set, so popular last season. It is sold direct to you from Midwest Laboratories at a positive saving of 30% to 50%. (This statement has been verified by a Certified Public Accountant who conducted an impartial survey among representative Ohio, Kentucky and Indiana radio retailers.) Before you buy any radio, write for FREE 40-page 1936 catalog. Never before so much radio for so little money. Why pay more? You are triple-protected with One Year Guarantee, Foreign Reception Guarantee and Money-Back Guarantee!

This super Midwest will out-perform \$200 to \$300 sets on a point-for-point comparison. That is why nationally known orchestra leaders like Fred Waring, George Olsen, Jack Denny, Ted Fio Rito, and others use Midwest sets to study types of harmony and rhythmic beats followed by leading American and Foreign orchestras

80 ADVANCED 1936 FEATURES

Scores of marvelous features, many exclusive, explain Midwest super performance and thrilling world-wide all-wave reception enable Midwest to bring in weak distant foreign stations, with full loud speaker volume, on channels adjacent to locals. Only Midwest offers so many features . . . only Midwest times as low as 4½ meters . . . only Midwest gives the sensational new Push-Button Tuning feature, etc. See pages 17 to 21 in FREE catalog for description of the 80 features. Read about advantages of 6 Tuning ranges offered for first time . . . E, A, L, M, H and U. They make this Super De Luxe 18-tube set the equivalent of six different radios . . . offer tuning ranges not obtainable in other radios at any price!

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No middlemen's profits to pay — you buy at wholesale price direct from laboratories . . . saving 30% to 50%. Increasing costs are sure to result in higher radio prices soon. Buy before the big advance . . . NOW . . . while you can take advantage of Midwest's sensational value. You can order your Midwest 1936 Full Scope High Fidelity Acousti-Tone radio from the 40-page catalog with as much certainty of satisfaction as if you were to come yourself to our great radio laboratories. You save 30% to 50% . . . you get 10 days FREE trial . . . as little as \$5.00 puts a Midwest radio in your home . . . Satisfaction guaranteed or money back. Write today, for FREE catalog.

SAVE UP TO 50%



Thrill to new explorations in sections of radio spectrum that are strangers to you. Every type of broadcast from North and South America, Europe, Asia, Africa and Australia is now yours. Send today for money-saving facts.

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Long Island, N. Y.—After comparing many different makes, I finally decided upon Midwest. It out-performs other radios costing almost twice as much! The crystal-clear tone is so life-like that it sounds as though I am in the studios, actually hearing artists performing.



TODAY'S FINEST RADIO SAYS TED FIO RITO

My new Midwest is finest radio I have had pleasure of hearing. Bass-Treble control is marvelous . . . enables one to hear every instrument in orchestra.



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This Midwest is engineered from the ground up to use either the new METAL tubes or glass-metal counterpart tubes. Local sockets and newest circuits permit use of either type . . . just as you desire.

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 Check here if interested in a Midwest All-Wave Battery Radio

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Now, Push-Button Silent Tuning is offered for first time! Simply pushing Silencer Button hushes set between stations suppresses noises. Pressing Station Finder Button automatically indicates proper dial position for bringing in extremely weak stations.

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Establishes new radio style overnight! The V-Front Dispersing Vanes were developed by Midwest engineers as a result of a study of directional effect of the Midwest Full Scope High Fidelity Speaker. These Vanes spread the beautiful laccourt of the "highs" throughout the entire room in a scientific manner, directing the High Fidelity waves uniformly to the ear. Send for new FREE 40-page catalog. It pictures the complete line of beautiful 1936 Acousti-Tone V-Spread consoles and chassis in four colors

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Now, get complete range of audible frequencies from 30 to 16,000 cycles, being transmitted by four new High Fidelity Broadcasting stations—WIXBS, WOXY, WXXI and W6XAL
Glorious new Acousti-tone is achieved assuring life-like crystal-clear "concert" realism



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