

THE NOVEMBER 1935

# A RADIO INDEX

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November 1, 1935



# RADIO INDEX

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TWELFTH YEAR

NUMBER 93

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# 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-TGW (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."

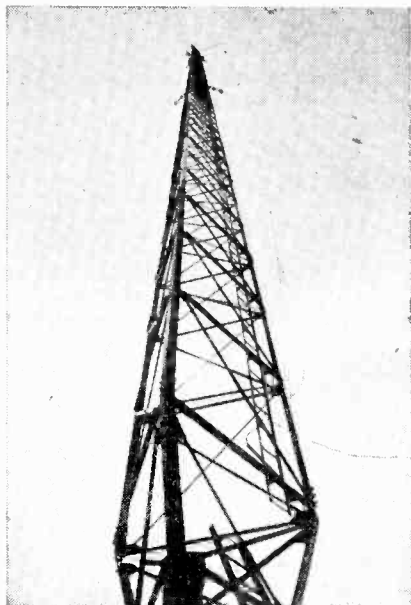
### A Request from Switzerland

"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 Pon-toise, 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 Radiofonographica, 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 WLF, 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. HJ4BE 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 HP5H 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 Zapora 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, PRAS, 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 shortwaves 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 Bundle, 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

**M**ANY 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 O1s 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. Hammel 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 wall 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 'nerst'. 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

**I**N 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

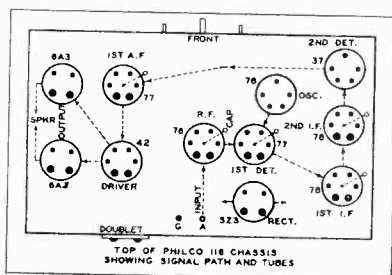
The inclined sounding board was exclusively developed by Philco in 1932, being offered in the old model 90X. The slope of the sounding board directs the high notes up to the listener's ear, and the large area of the board faithfully reproduces the low notes. To this effective sound repro-

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



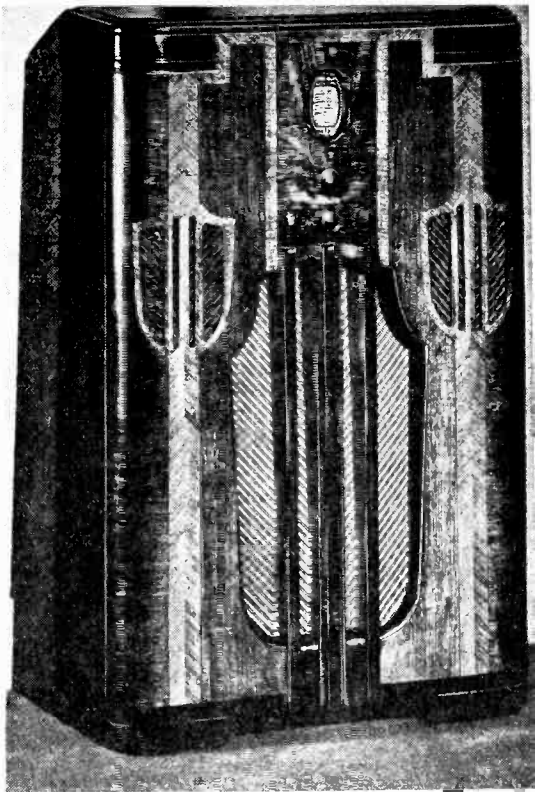


the daylight foreign and American short-wave stations; night-time stations of a similar nature; police, aircraft and ship calls; amateur bands; the standard broadcast band; and a longer wave aircraft, commercial and U. S. Weather Bureau forecast band. These bands have the following frequency ranges: 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

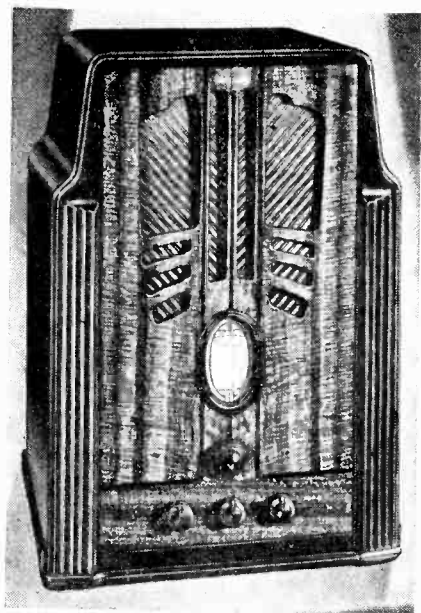
Through the scientific balancing of each unit of the circuit with all others, complete shielding of parts and tubes, and a non-radiating built-in filter that prevents interference going out to nearby sets, the Philco engineers have developed an excellent all-wave superheterodyne set.



*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

**I**N 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, KFYR, Bismarck, N. D., is the only offender. On 560, KFDM, 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

souvenir. Of course we will acknowledge all reports with a beautiful postcard 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

**T**HE 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 me 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 DX-ers," 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

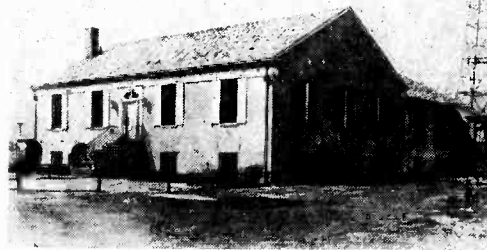
"In your DX Calendar," reminds Walter Snyder, 1401 Logan St., Grand Rapids, Mich., "you listed the names of the cities but not the states. It is very inconvenient to have to turn to another index to find which state a station is in. For example, very few people know that Nampa is in Idaho. If you had 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

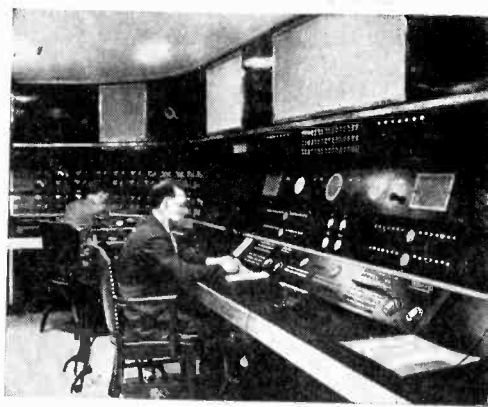
"Believe it or not," challenges Ashley V. R. Walcott, 76 San Rafael Way, San Francisco, Cal., "but the Bay District is furnishing two more stations with ideas about 24-hour broadcasting—namely, KRE in Berkeley and KGGC in San Francisco. While this may be good news to those Eastern DXers who have not 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 keys. 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," explains 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 12½ 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, WEAJ 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 Spartan 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.

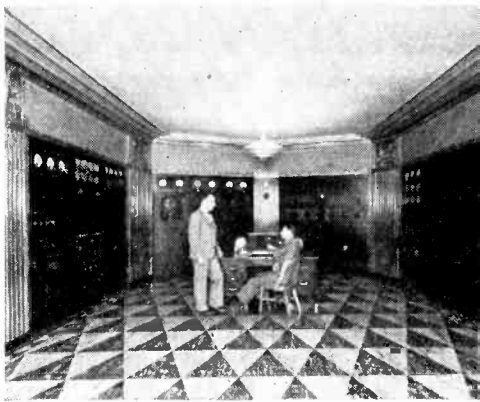
"In 1933, I built a 13-tube super and discarded my old log. During the fall and winter of 1934-35 and up to the present time, I have logged 635 stations on this receiver. I am foreman of the test department of the Sparton Radio Co. and would be glad to answer questions about Sparton receivers."

"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, Guadaljara, 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 WEAF. 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; WWDI, 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.

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## What Is DXing?

● ● ● By R. H. Weaver

*President, National Radio Club*

**M**OST 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, DXing 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?

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## The Northernmost Station

**W**HO 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.

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## The News on the Air

**J**UDGING 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



out news items, this would certainly be appreciated not only by us, I'm sure, but by every sea-going person. At present there are five radio owners aboard this ship and each owns a RADEX to find the best programs for the night."

Because of this universal interest in the news flashes, one of the questions that was asked in our recent questionnaire was regarding this feature. This data is now being arranged chronologically and, if it does not appear in this issue, it will certainly be published in the December number. It will require several pages to give the information that has been collected and we trust it will be widely appreciated and used.

## Time Signals by Music

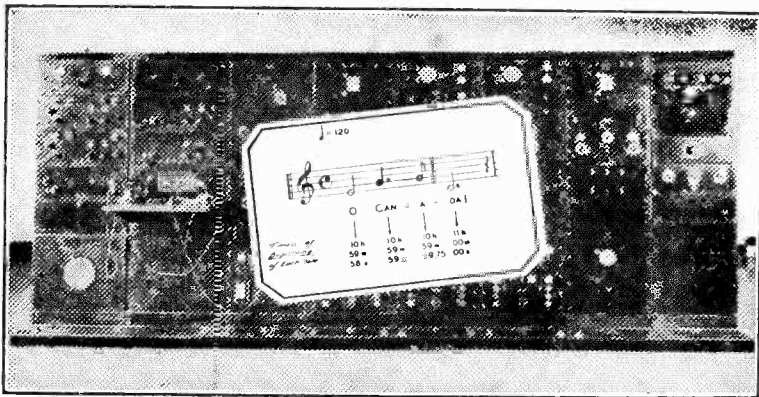
● ● ● By Jack McLaren

When radio listeners from coast to coast hear the first four notes of "O Canada" played at 11:00 p. m. EST, on Sunday, September 29th, they will hear the inauguration of a musical time service to be broadcast each evening thereafter at the same hour by the CRC. Such is the novel scheme which engineers, under the guidance of Lt. Col. W. Arthur Steel, of the Commission, have been work-

ing on for the past several weeks and which has now reached the stage of perfection.

Although musical time signals, by way of various chimes, have been used by other broadcasting systems for several years, the Commission's use of the first four notes of "O Canada" is an original idea. The music, which will be produced in the Commission's Standard Frequency Laboratory, comes from a specially constructed electrical oscillator which at the exact second, sends out the musical notes by means of a time switch actuated by a clock in the laboratory. From this laboratory, the signal will be carried to station CRCO, thence to the national network. The device is automatic and will not require the presence of an engineer.

So highly accurate has the signal been developed that it will be heard at precisely the same time each night and will not vary even the slightest fraction of a second. Upon the start of the first note, it will be two seconds to eleven o'clock. Upon the start of the second note it will be one second to eleven. Upon the start of the third note it will be one-quarter of a second to eleven and upon the start of the fourth note, it will be the exact hour.



Control panels from which originate the musical signals

## My DX Corner

● ● ● By Murray Buitekant\*



**I**T 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 Paristen, 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\*

**O**N 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

**T**HE 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.

840 - 950

Gov	3410	
	to	
	3420	
	to	
	3460	
Gov	3470	
	to	
	3480	
	to	
	3500	
Gov	8510	
C-G	8520	
Gov	8530	
	to	
	8540	
C-L	8560	
	to	
	8570	
	to	
	8580	
Gov	8590	
	to	
	8620	
	to	
	8630	
	to	
	8640	
	to	
	8650	
	to	
	8660	
C-G	8670	
	to	
	8690	
P-P	8700	
	to	
	8720	
	to	
	8730	
Gov	8740	
	to	
	8750	
F-P	8800	
	to	
	8800	
	to	
	8810	
	to	
	8850	
P-Gov	8860	
	to	
	8870	
	to	
	8890	
Gov	8900	
	to	
	8900	
P-P	8910	
	to	(1)
	9020	
Gov	9030	
	to	
	9040	
Gov	9050	
	to	
	9060	
	to	
	9080	
Gov	9090	
	to	
	9100	
	to	
	9110	
Gov	9120	
	to	
	9130	
	to	(1)
	9240	
Gov	9250	
	to	
	9260	
	to	
	9280	
Gov	9285	
	to	
	9290	
P-P	9300	
	to	(2)
	9490	
RE	9500	
	to	
	9540	
Gov	9550	

950 - 12135

RE	9560	
	to	
	9600	
	to	
	9610	
Print to Print	9610	
	to	
	9990	
Gov	10000	
	to	
	10010	
	to	
	10030	
Gov	10035	
	to	
	10040	
	to	(1)
	10180	
Av	10190	
	to	
	10200	
Print to Print	11000	
	to	
	11010	
	to	
	11025	
Gov	11040	
	to	
	11055	
	to	
	11100	
	to	(1)
	11115	
	to	
	11325	
P	11340	
R	11355	
	to	
	11370	
	to	
	11420	
	to	
	11415	
	to	
	11450	
Gov	11475	
	to	
	11490	
	to	(1)
	11685	
RE	11700	
	to	
	11715	
Gov	11730	
	to	
	11745	
	to	
	11800	
	to	
	11810	
	to	
	12000	
Gov	12015	
P-P	12030	
	to	
	12045	
	to	
	12090	
	to	
	12105	
	to	
	12120	
	to	
	12135	
Gov	to	

12135 - 15885

Gov	12155	
	to	
	12170	
	to	
	12300	
Gov	12315	
Av	12330	
	to	
	12345	
	to	
	12375	
Gov	12380	
Gov	12390	
Gov	12405	
Gov	12420	
	to	
	12435	
	to	
	12450	
Gov	12465	
Gov	12480	
	to	
	12495	
	to	
	12525	
Gov	12540	
	to	
	12555	
	to	
	12600	
Gov	12615	
	to	
	12630	
	to	
	12690	
Gov	12705	
	to	
	12720	
	to	
	12750	
Gov	12765	
	to	
	12780	
Gov	12795	
	to	
	12810	
	to	
	12840	
RE	12855	
	to	
	12870	
	to	
	12885	
	to	
	12900	
	to	
	12915	
	to	(1)
	13035	
	to	
	13050	
	to	
	13080	
	to	
	13095	
	to	
	13155	
	to	
	13170	
P-P	13185	
	to	
	13200	
	to	
	13275	
	to	
	13290	
	to	
	13335	
	to	
	13350	
	to	
	13375	
	to	
	13380	
	to	(1)
	13390	
	to	
	13540	
Gov	13545	
	to	
	13555	
	to	
	13570	
	to	
	13575	
Gov	13585	
	to	(2)

# Do You Know—

what happens in your set when you turn the dial?

It will double your enjoyment of Radio to have a clear understanding of its principles.

## The Beginner's Story of Radio

gives you in clear and simple language, the story of just what "makes the wheels go'round."

Beautifully bound in leatherette, the 96 pages, printed in large, clear type, give you, in words you can understand, the fascinating story of radio.

In this book

**B. Francis Dashiell**

Technical Editor of RADEN

conducts you on a personal tour through your radio set, pointing out exactly what part each of the many devices plays in turning the mysterious waves into programs for your enjoyment.

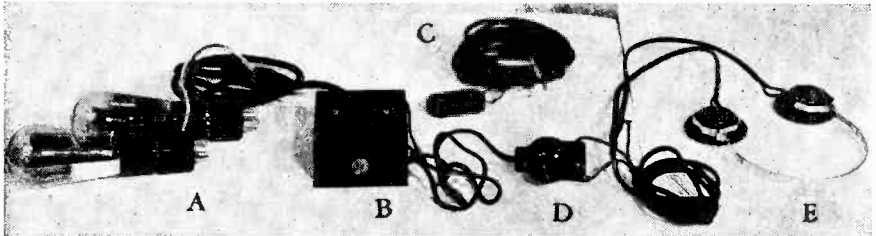
Every lover of radio should have this book in his library. It should be in the hands of every boy. Place your orders now for Christmas gifts.

Price  
Only 50c postpaid

**The Radex Press Inc.**  
Conneaut, Ohio

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# The "Perfect" Method of Using Head Phones



"A". The small socket adapter or adapters are placed under the power tubes where they remain.

"B". The Perfect Phone Adapter is placed on the underside of console or table. The tips of the phones may be inserted in the box and used directly at the set. No phone plug is required. The toggle-switch silences the speaker if desired. Price of Adapter, \$3.95 postpaid. (In Ohio, \$4.07)

"C". By inserting this extension cord and connector, the phones may be used at a distance of 15 feet from the set. Price 50c. (In Ohio, 52c)

"D". When this Distant Volume Control is inserted in the Adapter as shown, the volume may be regulated at a distance or the "blurb" may be silenced altogether. The extension cord may also be used between the Volume Control and the set. Price, \$2.00. (In Ohio, \$2.06)

"E". The phones may be used directly with the Adapter or they may be used with the Volume Control as shown. This permits their use at a distance. We can furnish phones of the regular 2000-ohm type at \$2.75 or the Trimm "Feather weight" shown in the illustration for \$8.05. These we believe to be the best phones made. (In Ohio add 3% for sales tax.)

*In ordering, be sure to give make and model of receiver and, if possible, a list of tubes used.*

## THE RADEX PRESS INC.

Conneaut, Ohio

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# WHAT'S ON THE AIR TONIGHT

Fill in calls and dial numbers for those stations through which you best receive the three chains. You can then turn quickly to the one that has the feature you want.

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 WJVS 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 WHCQ 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 WMAL 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 WJVS WKRC WNAC WOKO  
 WQAM WSPD WTOC WVVVA

**R — Amos 'n' Andy**  
 CRCT KYW WBNB WCAE WCSH  
 WFAF 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 KPAB KFH KGKO  
 KDKA KLZ KMBC KRLD KRNT  
 KRCJ KTSB KTUL KWKH WAAB  
 WABC WBBM WBT WCAO WDAE  
 WBT WCAO WCCO WCOA WDAE  
 WDBO WDNC WFBL WFHM WFEA  
 WGR WGST WHAS WHCQ WHK  
 WHP WICG WISN WJVS WKRC  
 WLCR WLBB WMBD WMBG WOKO  
 WORC WOWO WSJS WSMK WSPD  
 WVVVA

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

**B — Ivory Stamp Club**  
 KDKA KOIL KSO KWK WBAL  
 WBEZ WBZA WENR WFIL WGAR  
 WHAM WJZ WMAL 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 WFHM WGR  
 WHAS WHK WJAS WJVS WKRC  
 WNAC 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  
 WBZ WBBM WBT WCAO WCAU  
 WCCO WDRC WEAN WFBL WGR  
 WHAS WHK WJAS WJVS WKRC  
 WNAC

**B — Dangerous Paradise**  
 KDKA KOIL KSO KTBS KWK  
 WBAL WBAP WBZ WBZA WENR  
 WFIL WHAM WJZ WLW WMAL  
 WREN WSB WSM WSMH WSYR

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

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

**R — Hammerstein's Music Hall**  
 KSD KYW WBNB WCAE WCSH  
 WDAF WFAF WEEL WFBR WGY  
 WHO WHIO WJAR WMAQ WOW  
 WRC WSAI WTAG WTAM WTIC  
 WVVVA

**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 WHCQ WHK  
 WHP WICC WJAS WJVS WKRC  
 WLBB WMAS WMBG WNAC WOKO  
 WORC WSPD

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

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

**B — Evening in Paris**  
 KDKA KOIL KSO KWK WBAL  
 WBZ WBZA WCKY WFIL WGAR  
 WHAM WJZ WLS WMAL 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  
 KPAB KFKB KFIY KPRC KGB  
 KHJ KIRA KLZ KMBC KMJ KMOX  
 KOIN KOMA KRLD KRNT KSL  
 KTRH KTSB KTUL KVI KWG  
 WABC WADC WBBM WBNB WBRB  
 WBT WCAO WCAU WCCO WDAE  
 WDBJ WDRC WDSU WEAN WFBL  
 WFBM WGST WHAS WHCQ WHK  
 WICC WISN WJAS WJVS WKBW  
 WKRC WLAC WNAC WNAX WOKO  
 WORC WQAM WREC WSPD

**R — A. & P. Gypsies**  
 KSD KYW WBNB WCAE WCSH  
 WDAF WFAF WEEL WGY WHO  
 WHIO WIRE WJAR WMAQ WOW  
 WRC WSAI WTAG WTAM WTIC  
 WVVVA

**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 WMAL WMC WMT  
 WOAI WPTF WREN WRVA WVS  
 WSM WSMB WSOE WSYR WTAR  
 WTMJ WWNC

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

# MONDAY (Continued)

WMAQ WMC WOAI WOW WPTF  
WRG WRVVA WSB WSM WSMB  
WSOC WTAG WTAM WTAR WTMJ  
WVJ WVNC

## 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-8:30, P-7:00

### C — Wayne King's Orchestra

CKLW KDB KERN KFAB KFBK  
KFPY KFRG KGB KHJ KLZ KMBC  
KMJ KMOX KOIN KOL KRLL  
KSL KVI KWG WAAB WABC WADC  
WBMM WBNS WCOA 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 WBNB WCAE  
WCSH WDAF WFAE WVEE WFAA  
WFBZ WGY WHO WJAR WMAQ  
WOW 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 KFRG KGB KHJ KLZ KMBC  
KMJ KMOX KOIN KOL KRLL  
KRRT KSL KVI KWG WABC WADC  
WBMM WCAO WCAU WCCO WDRG  
WDSU WEAN WFBL WFBM WGST  
WHAS WHK WJAS WJSV WKBW  
WKRC WNAC 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 KRLL  
KSL KTRH KTSa KVI KWOR KWG  
KWKH WAAB WABC WADC WALA  
WBMM WHG WBNS WBRB WBT  
WCAO WDAE WDBO WDNC WDDC  
WDRG WFBL WFBM WGR WGST  
WHAS WHK WHF WIBW WJAS  
WJAS WJAS WJSV WKBN WKRC  
WKRC WLAC WLZ WMBR WNOX  
WOKO WORC WOWO 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  
KFRG KGB KHJ KLRA KLZ KMBC  
KMJ KMOX KOIN KOL KOMA  
KRLL KSL KTRH KVI KWG  
WALA WBMM 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 KRLL KSL KTRH KVI  
KWOR KWG KWKH WABC WADC  
WALA WBIG WBNS WBRB WBT  
WCAO WDAE WDBO WDNC WDDC  
WDRG WFBM WGST WHAS WHK  
WHF WIBX WJAS WJSV WKBN  
WKBW WKRC WLAC WLZ WMBR  
WNOX WOKO WORC WOWO WPG  
WQAM WREC WSBT WSFA WJSV  
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 KFBK KFPY KFRG  
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 WBRB WBT WCAO WCAU  
WCOA WDAE WDBJ WDDO WDDC  
WDRG WEAN WFEA WICC WJSD  
WLAC WLZ WMAS WMBG WMBR  
WNAC WNOX WORC WREC WSFA  
WSJS WTOC

### C — One Night Stands

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

### R — Voice of Firestone

KDYL KPSD KGHG KGIR KGU  
KGV 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 KRLL KSCJ KTRH KTSa  
KFOR KWKH WAAB WABC WACO  
WALA WBMM WBIG WCAO WCAU  
WDAE WDBJ WDDO WDNC WDDC  
WDRG WESG WFBL WFBM WFBZ  
WGR WGST WHEC WIBX WJR  
WKBN WLAC WLZ WMAS WMBD  
WMBG WMBR WNOX WOC WOKO  
WORA 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 WAAC WALA WBIG WBRB  
WBT WCAO WDAE WDBJ WDDO  
WDNC WDDC WDRG WGST WLAC  
WLZ WMAS WMBG WMBR WNOX  
WOLC 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

KFYR KSD KYW WBNB WCAE  
WCSH WDAF WDAY WFAE WFCB  
WFBZ WGY WHIO WJAS 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 KRLL  
KTRH WABC WADC WBBM WBNS  
WBRB WBT WCAO WCAU WDRG

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

### R — Leo Reisman's Orchestra

KSD KYW WBNB WCAE WCSH  
WDAF WFAE WVEE WFBZ WFLA  
WGY WHO WJSD WJAS WJAR WJAX  
WMAQ WOW WPTF WRC WSOQ  
WTAG WTAM WTAR WTIC WWJ  
WVNC

### B — Ene 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 KFRG  
KGB KGKO KHJ KLRA KLZ KMBC  
KMJ KMOX KOH KOIN KOL KOMA  
KRLL KRNT KSCJ KSL KTRH  
KTSa KTUL KVI KWOR KWG  
KWKH WABC WACO WADC WALA  
WBMM WBIG WBNS WBRB WBT  
WCAO WCAU WCCO WDAE WDAE  
WDBJ WDBO WDNC WDDC WDRG  
WDSU WEAN WFBL WFBM WGST  
WHAS WHK WIBW WJAS WJSV  
WJSV WKBW WKRC WLAC WMBG  
WMBR WNAC WNAX WNOX WOC  
WOKO WQAM WREC WSFA WSJS  
WSPD WTOC

### R — Wayne King and Orchestra

KFYR KPRC KSD KSTP KTBS  
KYOO KYW WAVE WBNB WCAE  
WCSH WDAF WDAY WFAE WVEE  
WFAA WGY WHO WJAS 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 WBNB WCAE WCSH  
WFAE WVEE WFBZ 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 KOMA KRLL KRNT KSCJ  
KTRH KTSa KTUL KWKH WABC  
WACO WADC WALA WBMM WBIG  
WBNS WBRB WBT WCAO WCAU  
WCCO WDAE WDBJ WDDO WDNC  
WDDC WDRG WDSU WEAN WFBL  
WFBM WFEA WGST WHAS WHEC  
WHK WHF WIBW WIBX WJAS  
WJAS WJR WJSV WKBN WKBW

## TUESDAY (Continued)

WKRC WLAC WLBB WMAS WMBD  
WMBG WMBR WNAC WNBX  
WNOX WOKO WORC WOWO WPG  
WQAM WREC WSBT WSFA WSJS  
WSPD WTOG

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

**C — Fred Waring and Orchestra**  
CFRB CKAC CKLW KDB KERN  
KFAB KFBK KFH KFPY KFRC  
KGB KGKO KHJ KLRA KLZ KMBC  
KMJ KMOX KHJ KOIN KOL KOMA  
KRLD KSCJ KSL KTRH KTVL  
KWG KWKH WABC WACO WADC  
WALA WBBM WBIG WBNS WBRC  
WBT WCAO WCAU WCCO WCOA  
WDAE WDBJ WDBO WDNC WDOD  
WDRG WDSU WEAN WFBL WFBM  
WGST WHAS WHEC WHK WHP  
WIBW WIBX WICX WISN WJAX  
WJWB WKBN WKRW WKRC WLAC  
WLBZ WMAS WMBD WMBR WNAC  
WNAK WNOX WOC WOKO WORC  
WOWO WPG WQAM WREC WSBT  
WSFA WSJS WSMK WSPD WTOG

**R — Eddie Duchin and Orchestra**

KDYL KFI KFSD KFYR KGHL  
KGIR KGW KHQ KOA KOMO KPO  
KPRC KSD KSTP KTRH KTBS  
KVOO KYW WAVE WBAF WBEN  
WCAE WCSH WDAF WDAY WFAF  
WBCB WEEI WFBF 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 WTVR  
WTVL WTMJ WWJ WWNC

**B — Helen Hayes; Drama**

KDKA KOIL KSO KWK WBAL  
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 WBAF WBEN  
WCAE WCSH WDAF WDAY WFAF  
WBCB WEEI WFBF WGY WHIO  
WIBA WJAR WKY WLW WMAQ  
WOAI WOW WRC WTAG WTAM  
WTVL WTMJ WWJ

**B — Wendell Hall, Songs**

CFCE KDKA KOIL KSO KWK  
WBAL 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 KFRC KGB KGKO KHJ  
KLRA KLZ KMBC KMOX KOH KOL  
KOMA KRLD KSL KTRH KTVL  
KTUL KVI KVOR KWG KWKH  
WABC WACO WADC WALA WBIG  
WBNS WBRC WBT WCAO WDAE  
WDBJ WDBO WDNC WDOD WDRG  
WDSU WFBL WFBM WFEA WGST  
WHAS WHEC WHK WHP WIBW  
WIBX WICX WJAS WJWB WKBN  
WKBW WKRC WLAC WLBZ WMAS  
WMBG WMHR WNOX WOKO  
WORC WOWO WPG WQAM WREC  
WSBT WSFA WSJS WSMK WSPD  
WTOG

**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  
KGRJ KGW KHQ KOA KOMO KPO  
KPRC KTRH KTBS WAPI WAVE  
WBAF WDAY WECB WIBA WIRE  
WJDX WKY WMC WOA WSB WSM  
WSMB

**C — Walter O'Keefe; Glen Gray**

KDB KERN KFBK KFPY KFRC  
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**

**R — 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 — Easy 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  
KFRC KGB KGKO KHJ KLRA KLZ  
KMBC KMOX KOH KOL KRLD  
KRNT KSCJ KTRH KTVL  
KVOR KWG KWKH WABC WACO  
WADC WALA WBBM WBRC WBT  
WCAU WCOA WDAE WDBJ WDBO  
WDNC WDRG WEAN WESG WFBL  
WFBM WGR WGST WHAS WHK  
WIBX WISN WJAS WJWB WKBN  
WKRC WMBG WNAC WNOX  
WOKO WOWO WQAM WREC WSJS  
WSMK WSPD WTOG WVVV

**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 KTRH  
KTBS KTHS KVOO KYW WAPI  
WAVE WBEN WCAE WCSH WDAF  
WDAY WFAF WBCB WEEI WFBF  
WFLA WGY WHO WHIO WIBA  
WIOD WIRE WIS WJAR WJAX  
WJDX WKY WLW WMAQ WMC  
WOAI WOW WPTF WRC WRVA  
WSB WSM WSMB WTAG WTAM  
WTVL WTMJ WWJ WWNC

**C — Cavalcade of America**

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

**B — Life Savers Rendezvous**

CRCT 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 WTVR WNNC

**R — Wayne King, See Tuesday**

**C — Burns and Allen**

KFAB KFH KLRA KMBC KMOX  
KOMA KRLD KRNT KSCJ KTRH  
KTVL KWKH WABC WADC  
WBBM WBNS WBRC WBT WCAO  
WCAU WCCO WDAE WDBJ WDBO  
WDRG WDSU WEAN WFBL WFBM  
WFEA WGR WGST WHAS WHEC  
WHK WHP WHW WIBX WICC  
WJAS WJR WJWB WKRC WLAC  
WLBZ WMAS WMBD WMBG  
WMBR WNAC WNAK WNOX  
WOKO WORC WPG WQAM WREC  
WSPD

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

**C — Chestfield Program**

CKAC CKLW KDB KERN KFBK  
KFPY KFRC KGKO KHJ KLRA  
KLZ KMBC KMJ KOIN KOL KSL  
KTUL KVI KWG WAAB WABC  
WADC WALA WBBM WBIG WBNS  
WBRC WBT WCAO WCOA WDAE  
WDBJ WDBO WDNC WDRG WDSU  
WFBL WFBM WFEA WGST WHAS  
WHEC WHP WICC WJAS WJWB  
WKBW WKRC WLAC WLBZ WMBG  
WMBR WNOX WOKO WORC WOWO  
WPG WQAM WREC WSBT WSPD  
WTOG

**R — Town Hall; Fred Allen**

KFYR KPRC KSD KSTP KTBS  
KTHS KVOO KYW WAPI WAVE  
WBAF WBEN WCAE WCSH WDAF  
WDAY WFAF WBCB WEEI WFAA  
WFBF WFLA WGY WHO WIBA  
WIOD WIS WJAR WJAX WJDX  
WKY WLW WMAQ WMC WOA  
WOW WPTF WRC WRVA WSB  
WSM WSMB WSOC WTAG WTAM  
WTVR WTVL WTMJ WWJ WWNC

**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 KTVL KVOR KWKH WABC  
WACO WADC WALA WBIG WBNS  
WBRC WBT WCAO WCAU WDAE  
WDBJ WDBO WDNC WDOD WDRG  
WEAN WFBL WFBM WFEA WGST  
WHEC WIBW WIBX WICC WISN  
WJAS WJR WJWB WKWB WKRC  
WLAC WMAS WMBD WMBR  
WNAC WNOX WOC WOKO WORC  
WQAM WREC WSBT WSJS WSPD  
WTOG

## 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 KBD KTBS KTHS KYW  
WBEN WCAE WCSH WDAF WFAE  
WEEI WFAA WGY WHO WJAR  
WKY WMAQ WQAI WOW WRC  
WSAI WTAG WTAM WTVG WJW

**C — Lud Gluskin and Orchestra**  
CFRB CKAC KFH KGKO KLRA  
KLZ KMBC KMOX KOMA KRLD  
KSCJ KTRH KTSa KVOR KWKH  
WABC WACO WADC WALA WBIG  
WBNS WBTC WBT WCAO WCAU  
WCCO WDBC WDBJ WDNC WDOE  
WDOE WDRC WEAN WFBL WFBM  
WFPA WGST WHAS WHEC WHK  
WIBW WIBC WICC WISN WJAS  
WJW WJWS WKBW WKRC WLAC  
WMAS WMBD WMBR WNAC  
WNAX WNOX WOC WOKO WORC  
WPG WQAM WREC WSBT WSJS  
WSMK WSPD WTOG

**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 KVOO  
KYW WAVE WBEN WCAE WCSH  
WDAF WFAE WEEI WFAA WFBW  
WGY WHO WHIO WIRE WJAR  
WJDX WKY WLW WMAQ WMC  
WQAI WOW WRC WBB WSW  
WSMB WTAG WTAM WTVG WJW  
**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 CKAC KDB KFAB KFH  
KFY KFRG KGB KGKO KIJ  
KLRA KLZ KMBC KOH KOL  
KOMA KRLD KRNT KSCJ KTRH  
KTSa KTVL KVI KVOR KWKH  
WAAB WABC WACO WADC WALA  
WBBS WBIG WBNS WBTC WBT  
WCAO WCCO WCOA WDAE WDBJ  
WDBO WDNC WDOE WDRC WFBL  
WFBM WFEA WGR WGST WHAS  
WHEC WHK WHP WIBW WLBX  
WICC WISN WJAS WJWS WKRC  
WLAC WLWB WMAS WMBD WMBG  
WMBR WNOX WOC WOKO WORC  
WOW WPG WQAM WREC WSBT  
WSFA WSJS WSMK WSPD WTOG

**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 WQAI  
WSB WSM WSMB WTMJ  
**C — Burns and Allen**  
KDB KERN KFBK KFPY KFRG  
KGB KHJ KLZ KMJ KOIN KOL  
KSL KVI KVOR 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  
WDNC WDOE WDRC WGST WLAC  
WLBB WMAS WMBG WMBR WORC  
WQAM WREC WSFA WSJS WTOG

**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 CKLW KFAB KFH KGB  
KLRA KLZ KMBC KMOX KRLD  
KRNT KSCJ KSL KTSa KTUL  
KWG KWKH WAAB WABC WACO  
WBBS WBIG WBNS WBTC WBT  
WCOA WDAE WDOE WDNC WDOE  
WDRC WDSU WFBL WFBM WFEA  
WGR WGST WHAS WHEC WHP  
WIBX WJWS WKRC WLAC WLW  
WMBD WMBG WMBR WOKO  
WORO WQAM WREC WWSB  
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**

CKLW KFAB KMBC KMOX KRNT  
WABC WADC WBBS WBNS WCAO  
WCAU WCCO WDRC WEAN WFBL  
WFBM WGR WHAS WHK WJAS  
WJWS WKRC WNAC WOKO WSMK  
WSPD

**R — Rudy Vallee's Variety Hour**  
CFRC CRCT KDYL KFI KFYR  
KGW KHQ KOA KOMO KPO KSD  
KSTP KTAR KYW WBEN WCAE  
WCSH WDAF WDAY WFAE WFBW  
WEEI WFBW WGY WHO WJAR  
WLW WMAQ WOW WRC WTAG  
WTAM WTVG WTMJ WJW

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

**C — Atwater Kent Concert**  
CKAC CKLW KDB KERN KFBK  
KFPY KFRG KGB KHJ KLZ KMBC  
KMJ KMOX KOIN KOL KOMA  
KRLD KRNT KSL KTSa KVI KWG  
WABC WADC WBBS WBT WCAO  
WCAU WCCO WDAE WDBO WDRC  
WDSU WEAN WFBL WFBM WGR  
WGST WHAS WHK WJAS WJWS  
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 KFSD KFYR KGLH  
KGRG KGW KHQ KOA KOMO  
KPO KPRC KSD KSTP KTAR  
KTBS KYW WAPI WAVE WBPW  
WBEN WCAE WCSH WDAF WDAY  
WFAE WFBW WEEI WFBW WFLA  
WGY WHO WHIO WIBA WIOD  
WIRE WIS WJAR WJAX WJDX  
WKY WMAQ WMC WQAI WOW  
WPTF WRC WRVA WSAI WSM  
WSM WSMB WSOC WTAG WTAM  
WTAH WTVG WTMJ WJW WJWC

**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 KFRG KGB KHJ KLZ KMBC  
KMJ KMOX KOIN KOL KOMA  
KRLD KRNT KSL KTRH KTSa  
KVI KWG KWKH WABC WADC  
WBBS WBNS WBTC WBT WCAO  
WCAU WCCO WDOE WDRC WDSU  
WFBM WFBW WGST WHAS  
WHEC WHK WHP WISN WJAS  
WJR WJWS 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 KFAB KFBK  
KFH KFPY KFRG KGB KHJ KLRA  
KLZ KMBC KMJ KMOX KOIN  
KOL KRLD KRNT KSL KTRH  
KTSa KTUL KVI KWG WABC  
WBBS WBNS WBTC WBT WCAO  
WCAU WCCO WDOE WDRC  
WDSU WFBM WFBW WGST WHAS  
WHP WISN WJAS WJWS 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 KTAR KTBS KTHS  
KYW WAPI WAVE WBPW WBEN  
WCAE WCSH WDAF WDAY WFAE  
WFBW WEEI WFBW WFLA WGY  
WHO WIBA WIOD WIS WJAR  
WJAX WJDX WKY WLW WMAQ  
WMC WQAI WOW WPTF WRC  
WRVA WBS WSM WSMB WTAG  
WTAM WTVG WTMJ WJW WJWC

**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 CKAC CKLW KDB KERN  
KFBK KFBK KFH KFPY KFRG  
KGB KGKO KIJ KLRA KMBC  
KMJ KMOX KOH KOIN KOL KOMA  
KRLD KSCJ KSL KTRH KTSa  
KTUL KVI KVOR KWG KWKH  
WABC WACO WADC WALA WBBS  
WBIG WBNS WBTC WBT WCAO  
WCAU WCCO WCOA WDAE WDBJ  
WDBO WDOE WDRC WDSU WFBL  
WFBM WFEA WGST WHAS WHEC  
WHK WHP WISN WJAS WJWS  
WKRC WLAC WLBB WMAS WMBD  
WMBR WNOX WOC WOKO WORC  
WOW WPG WQAM WREC  
WSBT WSFA WSJS WSMK WSPD  
WTOG

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

**C — Dance Orchestra**

CFRB CKAC CKLW KDB KFBK  
KFH KFPY KFRG KGB KGKO KHJ  
KLRA KLZ KMBC KOH KOIN  
KOMA KRLD KSL KTRH KTSa  
KTUL KVOR KWG KWKH WAAB  
WABC WACO WADC WALA WBIG  
WBNS WBTC WBT WCAO WCOA  
WDAE WDBJ WDBO WDNC WDOE  
WDRC WDSU WFBL WFBM WFEA  
WGST WHAS WHEC WHK WHP  
WIBW WIBC WICC WJAS WJWS  
WKBW WKBW WKRC WLAC WLBB  
WMAS WMBG WMBR WNAC  
WNOX WOKO WORC WOWO 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. Kaltenborn**

CKLW KDB KERN KFAB KFH  
KFPY KFRC KGB KGKO KIJ  
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 WDDO WDFW WEAN WESG  
WFBL WFBM WFEA WGST WHAS  
WHFC WHP WIBW WIBX WISN  
WJAS WJSV WKBW 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 WBRC WDAE WDBJ  
WDBO WDNC WDDO WFBL WFBM  
WFEA WGST WHAS WHFC 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 WDRS WEAN WGR WJAS  
WJSV WKRC WOKO 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 WDRS WEAN WFBL  
WFBM WHAS WHFC WHK WIBW  
WICC WJAS WJLR WJSV WKBW  
WKRC WLWB WMAS WMBD WNAC  
WOC WOKO WORC WSPD

**R — Cities Service Concert**  
CRCT KDYL KOA KPRC KSD  
KSTP KTBS KTHS KVOO KYW  
WBAP WBEN WCAE WCHS WDAF  
WEAF WEBC WEEI WFAA WFBR  
WGY WHO WHIO WIOD WJAR  
WKY WMAQ WQAI WOW WRC  
WRVA WSAI WTAG WTAM WTIC  
WTMJ WWJ

**B — Irene Rich; Dramatic Sketch**  
KDKA KDYL KFI KGW KHQ  
KOIL KOMO KPO KSO KTAR  
WAVE WBAL WBZ WBZA WGAR  
WHAM WHIR WJZ WLS WMAL  
WMC WMT WREN WSB WSMI  
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 KIJ KLZ KMBC KMJ  
KMOX KOIN KOL KOMA KRNT  
KSL KWG WABC WADC WBNS  
WBRC WBT WCAO WCAU WCCO  
WDRS WDSU WEAN WFBL WFBM  
WGR WGST WHAS WHK WJAS  
WJSV WKRC WMAS WMBG WNAC  
WOKO WSPD

**B — Ruth Etting; Red Nichols**  
KDKA KDYL KFI KFSB KGW  
KHQ KOIL KOMO KPO KSO KTAR  
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**  
**C — Hollywood Hotel**

CFRB CKAC CKLW KDB KERN  
KFAB KFBC 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 WDRS WDSU WEAN  
WFBL WFBM WFEA WGST WHAS  
WHFC WHK WHP WIBW WIBX  
WICC WJAS WJSV WKBW WKRC  
WLAC WLWB WMAS WMBD WMBG  
WMBR WNAC WNAX WNOX  
WOKO WORC WPG WQAM WREC  
WSPD

**R — Frank Munn; Vivienne Segal**  
KSD KYW WBEN WCAE WCHS  
WDAF WEAF WEEI WFBR WGY  
WJAR WLW WMAQ WOW WRC  
WTAG WTAM WWJ

**B — Palmolive Beauty Box Theatre**  
CFRC CRCT KDKA KFYR KOIL  
KPRC KSO KSTP KTBS KWK  
WAPI WAVE WBAL WBZ WBZA  
WCKY WDAY WEBC WENR WFAA  
WFIL WFLA WGAR WHAM WIBA  
WIOD WIRE WIS WJAX WJDX  
WJZ WKY WLS WMAL WMC WMT  
WQAI WPTF WREN WRVA WSB  
WSM WSNB WSOC WSYR WTAR  
WTMJ WWB WNC

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**R — True Story Court**

KSD KYW WBEN WCAE WCHS  
WDAF WEEI WFBR WGY WHO  
WHIO WJAR WHAQ WOW WRC  
WTAG WTAM WTIC 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  
WAAB WABC WADC WBBM WBNS  
WBT WCAO WCAU WCCO WDRS  
WFBL WFBM WGST WHAS WHK  
WJAS WJSV WKBW WKRC WOKO  
WSBT WSPD

**R — Campana's First Nighter**  
KDYL KFI KGW KHQ KOA KOMO  
KPO KPRC KSD KSTP KYW WBEN  
WCAE WCHS WDAF WEAF WEBC  
WEEI WFAA WFBR WGY WHO  
WJAR WKY WLW WMAQ WMC  
WQAI WOW WRC WSB WSMB  
WTAG WTAM WTIC 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 KFYR KGW KHQ KOA  
KOMO KPO KPRC KSD KSTP  
KTBS KTHS KVOO WAVE WCAE  
WDAF WDAY WEAF WEBC WEEI  
WFAA WFLA WHIO WIBA WIOD  
WIS WJAR WJAX WJDX WKY  
WMAQ WMC WQAI WOW WPTF  
WRVA WSAI WSB WSMB WNOX  
WTAG WTAM WTAR WTIC WTMJ  
WWJ WVNC

**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 KFRC KGKO KLZ  
KRLD KRNT KSCJ KTRH WABC  
WACO WBBM WDBJ WDBO WDDO  
WFBM WGST WHP WISN WJAS  
WLAC WMBD WNAC WNOX WOC  
WORC WOWO WSMK

**B — Palmolive Beauty Box Theatre**  
KDYL KFI KFSB KGHL KGR  
KGW KHQ KOA KOMO KPO KTAR  
WLW

**E-12:00 p.m., C-11:00, M-10:00, P-9:00**  
**C — Richard Himber's Orchestra**  
KDB KERN KFBC 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 KFBC  
KPH KFPY KFRC KGB KGKO KIJ  
KLRA KLZ KMBC KOH KOIN KOL  
KOMA KRLD KSCJ KSL KTSK  
KTUL KVI KVOR KWG KWKH  
WAAB WABC WACO WADC WBBM  
WBIG WBRB WBT WCAO WCAU  
WDAE WDBJ WDBO WDNC WDDO  
WDRS WESG WFBL WFBM WGST  
WHAS WHFC WHK WHP WIBW  
WIBX WISN WJSV WKBW WLAC  
WLWB WMBD WMBG WMBR  
WNOX WOC WOKO WORC WOWO  
WQAM WREC WSBT WSFA WSJS  
WSMK WSPD WTOC WVVA

**E-6:45 p.m., C-5:45, M-4:45, P-3:45**  
**C — Saundra Brown, Songs**

CFRB KLRA WAAB WABC WADC  
WALA WBRB WCAO WDAE WDBJ  
WDBO WDNC WDDO WDRS WFBL  
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 KFYR KOA KPRC KSD  
KSTP KTBS KYW WAPI WAVE  
WBAP WBEN WCAE WCHS WDAF  
WDAY WEAF WEBC WEEI WFBR  
WGY WHIO WIBA WIOD WIRE  
WIS WJAR WJAX WJDX WKY  
WLW WMAQ WMC WQAI WOW  
WPTF WRC WRVA WSB WSM  
WSMB WSOC WSUN WTAG WTAM  
WTAR WTIC WWJ WVNC

**C — Atlantic Family; Frank Parker**  
WABC WADC WBIG WBNS WBT  
WCAO WCAU WDAE WDBJ WDBO  
WDRS WEAN WFBL WHFC WHK  
WHP WICC WJAS WKBW WKBW  
WMAS WMBG WMBR WNAC

**SATURDAY (Continued)**

WOKO WORC WPG WQAM WSJS WTOC

**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 WFLB 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 KESD KFYZ KGHJ KGR KGU KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTAR KTBS KTHS KVOO KYW WAPI WAVE WBAF WBN WCAE WCEH WDAF WDAY WFAF WFB WFEI WFAA WFBF WFLA WGY WHO WHIO WIBA WIOD WIRE WIS WJAS WJAR WJAX WJDX WKY WLW WMAQ WMC WOAI WOW WPTF WRC WRVA WSB WSM WSMB WSOC WTAG WTAM WTAR WTIC WTMJ WWJ WWNC

**C — Club Columbia: Musical Comedy**

CFRB CKAC KFHK KGKO KLRA KLZ KMBC KMOX KOMA KSCJ KSL KTRH KVOR KWKH WABC WACO WADC WALA WBIG WBNS WBRC WCAO WCAU WCCO WDAE WDBJ WDBO WDNC WDDC WDRS WEAN WFBL WFBM WFEA WGR WGST WHAS WHEC WHK WIBW WIBX WICC WISN WJAS WJR WJSV WLAC WLZ WMAS WMBD WMBG WMBR WNAC WNOX WOC WOKO WORC WPG WQAM WREC WSBT WSJS WSPD WTOC

**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 KVOR KWKH WABC WACO WADC WALA WBBM WBIG WBNS WBRC WCAO WCAU WCCO WDAE WDBJ WDBO WDNC WDDC WDRS WEAN WFBL WFBM WFEA WGR WGST WHAS WHEC WHK WIBW WIBX WICC WISN WJAS WJR WJSV WKRC WLAC WLZ WMAS WMBD WMBG WMBR WNAC WNOX WOC WORC WPG WREC WSBT WSJS WSPD WTOC

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

**R — G-Men; Drums**

KDYL KFI KESD KFYZ KGHJ KGR KGU KHQ KOA KOMO KPO KPRC KSD KSTP KTAR KTBS KYW WAPI WAVE WBAF WBN WCAE WCEH WDAF WDAY WFAF WFB WFEI WFBF WFLA WGY WHO WHIO WIBA WIOD WIRE WIS WJAS WJAR WJAX WJDX WKY WLW WMAQ WMC WOAI WOW WPTF WRC WRVA WSB WSM WSMB WSOC WTAG WTAM WTAR WTIC WTMJ WWJ WWNC

**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 KESD KFYZ KGHJ KGR KGU KHQ KOA KOMO KPO KPRC KSD KSTP KTAR KTBS KYW WAPI WAVE WBAF WBN WCAE WCEH WDAF WDAY WFAF WFB WFEI WFBF WFLA WGY WHO WHIO WIBA WIOD WIS WJAR

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

**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 KFHK KGKO KLRA KLZ KMBC KMOX KOMA KRLD KSCJ KSL KTRH KTSa KVOR KWKH WABC WACO WADC WALA WBBM WBIG WBNS WBR WBT WCAO WCAU WCCO WDAE WDBJ WDBO WDNC WDDC WDRS WEAN WFBL WFBM WFEA WGR WGST WHAS WHEC WHK WIBW WIBX WICC WISN WJAS WJR WJSV WKRB WKRC WLCWLBZ WMAS WMBD WMBG WMBR WNAC WNOX WOC WOKO WORC WPG WQAM WREC WSBT WSJS WSPD WTOC

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

**C — California Melodies**

CFRB CKAC KFHK KGKO KLRA KLZ KMBC KMOX KOMA KRLD KSCJ KSL KTRH KTSa KVOR KWKH WABC WACO WADC WALA WBBM WBIG WBNS WBR WBT WCAO WCAU WCCO WDAE WDBJ WDBO WDNC WDDC WDRS WEAN WFBL WFBM WFEA WGR WGST WHAS WHEC WHK WIBW WIBX WICC WISN WJAS WJR WJSV WKRB WKRC WLAC WLZ WMAS WMBD WMBG WMBR WNAC 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**

**C — Dance Orchestra**

CFRB CKAC KFLW KDB KFHK KFHK KFYZ KFRC KGB KGKO KLRA KLZ KMBC KMOX KOH KOIN KOL KRLD KSCJ KSL KTSa KTUL KVI KVOR KWG KWKH WABC WACO WADC WBBM WBIG WBNS WBR WCAU WCCO WDBJ WDBO WDNC WFB WFBM WGST WHAS WHEC WHK WHP WIBW WIBX WISN WJAS WJSV WKRC WLAC WLZ WMAS WMBD WMBR WNOX WOC WORA WPG WREC WSEA WSJS WSMK WSPD WTOC WVVa

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

**C — Dance Orchestra**

CKLW KDB KERN KFHK KFHK KFYZ KFRC KGB KGKO KLRA KLZ KMBC KMOX KOH KOIN KOL KOMA KRLD KTSa KTUL KVI KVOR KWG KWKH WABC WACO WADC WBBM WBIG WBNS WBR WCAU WCCO WDBJ WDBO WDNC WFB WFBM WGST WHAS WHEC WHK WHP WIBW WIBX WISN WJAS WJSV WKRC WLAC WLZ WMAS WMBD WMBR WNOX WOC WORC WPG WQAM WREC WSBT WFA WSJS WSMK WSPD WTOC WVVa

**B — National Barn Dance**

KDYL KFI KFYZ KGW KHQ KOA KOMO KPO KPRC KSTP KTBS KTHS KVOO WAVE WBAF WDAY WECB WIBA WJDX WKY WLW WMC WOAI 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 KFHK KFHK KFYZ KFRC KGKO KIJ KLRA KOH KOL KOMA KRLD KSCJ KSL KTSa KTUL KVOR KWKH WABC WACO WADC WBBM WBIG WBNS WBR WBT WCAO WCAU WCCO WDAE WDBJ WDBO WDNC WDDC WDRS WEAN WFBL WFBM WFEA WGR WGST WHAS WHEC WHK WHP WJBW WJBX WJCS WJAZ WJDX WJES WJMS WJNB WJNC WJAX WJNO WJOK WJRC WJPG WJQM WJRC WJST WJSA WSJS WSMK WSPD WTOC WVVa

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

**C — Dance Orchestra**

CKAC CKLW KDB KERN KFHK KFHK KFYZ KGB KGKO KLRA KLZ KOH KOIN KOL KOMA KRLD KSL KTSa KTUL KVI KVOR KWG KWKH WABC WACO WADC WBNS WBR WBT WCAO WCAU WCCO WDBJ WDBO WDNC WDDC WEAN WFBL WFBM WHAS WHK WHP WJBX WJCS WJAZ WJDX WJES WJMS WJNB WJNC WJAX WJNO WJOK WJRC WJPG WJQM WJRC WJST WJSA WSJS WSMK WSPD WTOC

**SUNDAY**

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

**C — Salt Lake Tabernacle Choir**

CKLW KFAB KFHK KFHK KGKO KLRA KLZ KOMA KRLD KRNT KSCJ KSL KTRH KTSa KTUL KWKH WABC WADC WALA WBIG WBNS WBR WBT WCAO WCCO WDBO WDBO WDAE WDBJ WDBO WDNC WDDC WDRS WEAN WFBL WFBM WFEA WGR WGST WHK WHP WIBW WISN WJAS WJSV WKBN WLAC WLZ WMAS WMBD WMBR WNAC WNAK WOC WOKO WORC WOWO WPG WQAM WREC WSEA WSJS WSMK WSPD WTOC

**R — Major Bowes' Capitol Family**

KDYL KFYZ KOA KPRC KSTP KTBS KVOO WAPI WCAE WDAF WDAY WFAF WFB WFBF WFLA WGY WHO WHIO WJAR WJAX WKY WMAQ WMC WOAI WRC WRVA WSAI WSMB WTAG WTMJ WWNC

**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**

CFCF CRCT KDKA KDYL KFI KFYZ KGO KGW KHQ KOA KOIL KOMO KPRC KSO KVOO WAPI WBAF WBZ WBZA WCKY WDBJ WECB WGAR WHAM WIS WJDX WJZ WKY WMAL WOAI WREN WSMB WSYR WNNC

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

**C — Trans-Atlantic Broadcast**

CFRB CKAC KFHK KGKO KLRA KLZ KMBC KRLD KSCJ KTRH KTSa KVOR WABC WACO WADC WALA WBIG WBNS WBR WCAU WCCO WDAE WDBJ WDBO WEAN WESG WFB WFBM WFEA WGR WHAS WJBX WJAS WJSV WKBN WLAC WLZ WMBD WMBR WNAC WOC WOKO WORC WPG WQAM WREC WSJS WSMK WSPD WTOC

## SUNDAY (Continued)

**E-1:00 p.m., C-12:00, M-11:00, P-10:00**  
**C — Church of the Air**  
CFRB KFH KGKO KLRA KOMA  
KRLD KSCJ KSL KTRH KTS  
KVOR KWKH WABC WACO WALA  
WBNS WBT WCAO WCCO WDAE  
WDBJ WDBO WIOD WESG WFBM  
WGR WHAS WHEC WHIB WIBX  
WJAS WJSV WKBN WKRC WLAC  
WLZB 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 WCAU  
WJAS 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 KPRC KGB KHJ KLZ KMBC  
KMJ KMOX KOIN KOL KOMA  
KRLD KSL KTRH KTSB KVI KVG  
WABC WADC WBBM WBNS WBRC  
WBT WCAO WCAU WCCO WDBJ  
WDRC WDSU WEAN WFBM WGST  
WHAS WHEC WHK WHB WICC  
WJAS WJSV WKBW WKRC WNAO  
WNOX WOKO WORC WREC WTOC

**E-2:00 p.m., C-1:00, M-12:00, P-11:00**  
**C — Mary Eastman, Soprano**  
CFRB CKAK KFH KGKO KLRA  
KLZ KMBC KRLD KSCJ KTRH  
KTSB KVOR KWKH WABC WADC  
WALA WBIG WBNS WBRC WBT  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDCN WDDO WDRC WEAN  
WESG WFBL WFBM WFGA WGST  
WHAS WHEC WHK WIBW WIBX  
WICC WJAS WJAS WJR WKBN  
WKBW WKRC WLAC WLZB WMAS  
WMBD WMBG WMBR WNAO  
WNOX WOC WOKO WORC WPG  
WQAM WREC WSJS WSMK WSPD  
WTOC

**B — Magic Key of RCA**  
CFRC KDKA KDYL KFI KFYY  
KGU KGW KHQ KOA KOIL KOMO  
KPO KPRC KSO KSTP KTBS KTHS  
KVOO KWK WAPI WAVE WBAL  
WBZ WBZA WCKY WDAY WECB  
WENR WFAP WFIL WFLA WGAR  
WHAM WIBA WIOD WIS WJAX  
WJDX WJZ WKY WMAL WMC  
WMT WOAI WPTF WREN WRVA  
WSB WSM WSMB WSOC WSYR  
WTAR WTMJ WWNC WXYZ

**E-2:45 p.m., C-1:45, M-12:45, P-11:45**  
**C — Blue Flames; Mixed Quartet**  
CFRB KFH KGKO KLRA KLZ  
KMBC KOMA KRLD KSCJ KSL  
KTRH KTSB KVOR KWKH WAAB  
WABC WACO WADC WALA WBBM  
WBIG WBNS WBRB WBT WCAO  
WCAU WCCO WDAE WDBJ WDBO  
WDCN WDDO WEAN WESG WFBL  
WFBM WGST WHAS WHEC WHK  
WHB WIBX WICC WJAS WJAS  
WJR WKBN WKBW WKRC WLAC  
WLZB WMBD WMBG WMBR  
WNAO 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 CKAK KFH KGKO KLRA  
KLZ KOMA KRLD KSCJ KSL  
KTRH KTSB KVOR KWKH WABC  
WACO WADC WALA WBBM WBIG

WBNS WBRC WBT WCAO WCAU  
WCCO WDAE WDBJ WDBO WDCN  
WDDO WDFC WEAN WESG WFBL  
WFBM WGB WGST WHAS WHEC  
WHK WIBW WIBX WICC WJAS  
WJAS WJR WKBN WKBW WKRC  
WLAC WLZB WMAS WMBD WMBG  
WMBR WNAO 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 KTBS KVOO KWK  
WAPI WAVE WBAL WBT WBSA  
WDAY WEBC WENR WFAP 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 WDCR  
WEAN WFBL WFGA WGAR WGR  
WHB WHO WICC WIND WJAS  
WJDX WJR WLW WLW WMAS  
WNAO 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 WDCR WEAN  
WFBL WFBM WGR WHAS WHEC  
WHK WJAS WJSV WKRC WOKO  
WSPD

**B — Rosas and Drums**  
KDKA KOIL KSO KWK WBAL  
WBZ WBZA WENR WFIL WGAR  
WHAM WJZ WLW WMAL WMT  
WREN WSYR

**R — Penthouse Serenade**  
CFRC KDYL KFI KFYY KGW  
KHQ KOA KOMO KPO KPRC  
KSTP KTBS KTHS KVOO KYW  
WAPI WAVE WBAL WBN WCAE  
WCSH WDAF WDAY WFAE WFGA  
WHEI WFBM WFLA WGY WHB  
WIBA WIOD WIS WJAR WJAX  
WJDX WKY WMAQ WMC WMAI  
WOB WPTF WRC WRV WSAI  
WSB WSM WSMB WSOC WTAG  
WTAM WTAR WTC WJZ WWNC

**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 WDCR WDSU WEAN  
WFBL WFBM WGR WHAS WHEC  
WHK WHX WICC WJSV WMAS  
WOKO WORC WSPD WVVV

**R — Dream Drama**  
KYW WBN WCAE WCSI WDAF  
WFAE WEEI WFBR WGY WJAR  
WMAQ WRC WSAI WTAG WTAM  
WTC WJZ

**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**  
**B — Gabriel Heatter, Talks**  
KDKA KOIL KSO WBAL WBZ  
WBZA WENR WFIL WGAR WHAM  
WJZ WMAL WREN WSYR

**R — Al Goodman and Orchestra**  
KRD KYW WBN WCAE WCSI  
WDAF WFAE WEEI WFBR WGY

WHO WHIO WIRE WJAR WMAQ  
WOW WRC WSAI WTAG WTAM  
WTC WJZ

**E-6:00 p.m., C-5:00, M-4:00, P-3:00**  
**C — National Amateur Night**  
CFRB CKLW KERN KFAB KFBK  
KFPY KPRC KGB KHJ KLZ KMBC  
KMJ KMOX KOIN KOL KRLD  
KSL KVI KWG WAAB WABC  
WBBM WBNS WBT WCAO WCAU  
WCCO WDCR WDSU WFIL WFBM  
WGST WHAS WHEC WHB WJAS  
WJSV WKBW WKRC WOKO WOVO  
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 KPRC KGB KHJ KLZ KMJ  
KMOX KOIN KOL KRLD KRNT  
KSL KVI KWG WAAB WABC  
WBBM WBNS WBRC WBT WCAO  
WCAU WCCO WDCR WDSU WEAN  
WFBL WFBM WHAS WHEC WJAS  
WJR WJSV WKBW WKRC WLAC  
WVVV

**B — Compana's Grand Hotel**  
KDKA KDYL KFI KGW KHQ KOA  
KOIL KOMO KPO KSO KRTP KWK  
WBAL WBZ WBZA WCKY WECB  
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 WDCR  
WEAN WFBM 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 KPRC  
KGB KHJ KLZ KMBC KMOX KOIN  
KOL KSL KVI KWG WABC WBBM  
WCAO WCAU WCCO WDCR WFBL  
WGR WHAS WHK WJAS WJSV  
WKRC WNAO WOKO

**B — Jack Benny; Johnny Green**  
KDKA KFYR KOIL KPRC KSO  
KSTP KTBS KTHS KVOO KWK  
WAPI WAVE WBAL WBR WBZ  
WBZA WCKY WDAY WERC WENR  
WFIL WFLA WGAR WHAM WJAX  
WIOD WIRE WJAX WJZ WPTF  
WMAL WMC WMT WOAI WPTF  
WREN WRVA WSB WSM WMBM  
WSOC WSYR WTAR WTMJ

**E-7:30 p.m., C-6:30, M-5:30, P-4:30**  
**R — Fireside Recitals**  
KSD KYW WBN WCAE WCSI  
WDAF WFAE WFBR WGY WHIO  
WIRE WJAR WMAQ WOW WRC  
WSAI WTAG WTAM WTC WJZ

**C — Phil Baker; Hal Kemp**  
CKLW KLRA KRLD KTRH KTSB  
KWKH WABC WACO WADC WALA  
WBNS WBNS WBRB WBT WCAO  
WCAU WCOA WDAE WDBJ WDBO  
WDCN WDDO WDCR WDSU WEAN  
WESG WFBL WFBM WFGA WGR  
WGST WHAS WHEC WHK WHB  
WICC WJAS WJSV WKBN WKRC  
WLAC WLZB WMAS WMBR WNAO  
WNOX WOKO WORC WOVO WQAM  
WREC WSBT WSAI WSJS WSMK  
WSPD WTOC WVVV

**B — Ozzie Nelson; Robt. L. Ripley**  
KDKA KDYL KFI KFYY KGW  
KHQ KOA KOIL KOMO KPO KPRC  
KSO KSTP KTAR KVOO KWK

## SUNDAY (Continued)

WBAL WBZ WBZA WCKY WDAY  
 WEBC WFAA WFLA WGAR WHAM  
 WBCA WIOD WJAX WJDX WJZ  
 WKY WLS WMAL WMC WMT  
 WOAI WPTF WREN WRVA WBB  
 WBM 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 WREN WCAE  
 WCHS WEAF WFBW WGY WHO  
 WHIO WIRE WJAR WLW WMAQ  
 WRC WTAG WTAM WTMT 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 KTHS KVOO  
 KYW WAPI WAVE WBNB WBZ  
 WBZA WCAE WCHS WDAF WDAY  
 WEAF WEBC WFAA WFBW WFLA  
 WGY WHO WIOD WIS WJAR  
 WJAX WJDX WKY WLW WMAQ  
 WMC WMOI WOW WPTF WRC  
 WRVA WSB WSM WSMB WTAG  
 WTAM WTAR WTIC WTMJ WWJ  
 WWNC

**C — Eddie Cantor**  
 KFAB KFH KLRA KLZ KMBC  
 KMOX KOMA KRLL KRNT KTRH  
 KTSa KTUL KWKH WABC WADC  
 WBBM WBNS WBRC WBT WCAO  
 WCAU WCCO WDOD WDRC WEAN  
 WEAN WFBL WFBM WGR WGST  
 WEAS WHEC WHK WICC WJAS  
 WJR WJSV WKRC WLAC WNAC  
 WOKO WOWO 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 KOI KOMA  
 KRLL KRNT KSL KTRH KTUL  
 KVI KWG WABC WADC WBBM  
 WBNS WBRC WBT WCAO WCAU  
 WCCO WDRC WDSU WEAN WFBL  
 WFBM WGR WHAS WHEC WHK  
 WJAS WJR WJSV WKRC WLAC  
 WNAC WOKO WOWO 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 KTSa KTUL KVI  
 KVOR KWG KWKH WABC WACO  
 WADC WALA WBBM WBIG WBNS  
 WBRC WBT WCAO WCAU WCCO  
 WCOA WDAE WDBJ WDOD WDNC  
 WDOD WDRC 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 WSPA  
 WSJS WSMK WSPD WTCO

**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 WTAG WTAM  
 WTIC WTMJ WWJ

**B — Charles Previn 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 KVOO KYW  
 WAVE WBNB WCAE WCHS WDAF  
 WDAY WEAF WEBC WEEI WFAA  
 WFBW WFLA WGY WHO WHIO  
 WIBA WIOD WIS WJAR WJAX  
 WJDX WKY WMAQ WMC WOA  
 WOW WPTF WRC WRVA WSAI  
 WWS WSM WSMB WSOC WTAG  
 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 — Nielsa Goodelle, Songs**  
 KDKA KOIL KSO KWK WBAL  
 WBZ WBZA 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 WBNS WCAO WCAU  
 WCCO WDBC WDSU WFBL WFBM  
 WHAS WHK WIBW WJAS WJSV  
 WKBW WKRC WSPD

**R — General Motors Concert**  
 CFCE CRCT KDYL KFI KFSD  
 KFJR KGW KHQ KOA KOMO  
 KPO KPRC KSTP KTAR KTBS  
 KTHS KYW WAPI WAVE WBAI  
 WBNB WCAE WCHS WDAF WDAY  
 WEAF WEBC WEEI WFBW WFLA  
 WGY WHO WHIO WIBA WIOD  
 WIRE WIS WJAR WJAX WJDX  
 WKY WMAQ WMC WOA WOV  
 WPTF WRC WRVA WSB WSM  
 WSMB WSOC WTAG 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  
 WDOD WDNC WDOD WDRC WEAN  
 WFEA WGST WICC WJSV WLBZ  
 WMAS WMBG WMBR WNAC  
 WORC WQAM WREC WSJS WTCO

**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  
 KTHS WBAI WDAF WKY WOA

**C — Eddie Cantor**  
 KDB KERN KFAB 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 KTHS WAPI WAVE  
 WBAI WJDX WMC WBS WSM

**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 KFAB KFPY KFRC  
 KGB KHJ KIZ KMJ KOIN KOI  
 KSL KVI KWG

**E-12:00 p.m., C-11:00, M-10:00, P-9:00**  
**B — Charles Previn 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 Heldt, 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  
 Freddie 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, R  
 Burns and Allen, 8:30 and 11:30 p.m. Wednesday, C  
 Eddie Cantor, 8:00 and 11:00 p.m. Sunday, C  
 Eddy Aes, 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

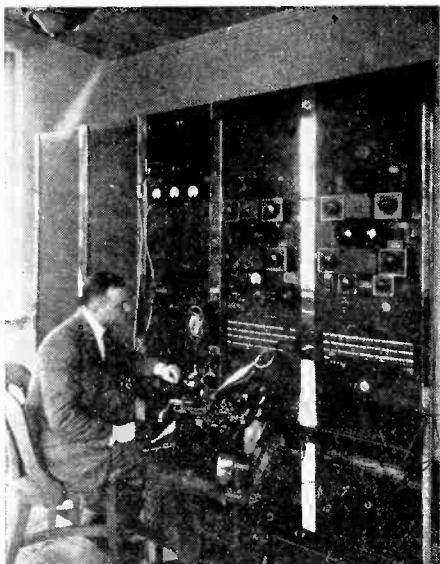
Fleischmann Variety, 8:00 p.m. Thursday, R  
 Flying Red Horse Tavern, 8:00 p.m. Friday, C  
 Gulf Headliners, 7:30 p.m. Sunday, C  
 Hammerstein's Music Hall, 8:00 p.m. Monday, R  
 Hollywood Hotel, 9:00 p.m. Friday, C  
 Life Savers Rendezvous, 8:00 p.m. Wednesday, B  
 Magic Key of RCA, 2:00 p.m. 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 Dragonette, 8:00 p.m. Friday, R  
 Ruth Etting, 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 Martin, 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  
 Lovell 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	CHML	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	WELL	New Haven, Conn. from WMFI
1200	WCPO	Cincinnati, Ohio, from WFBE
1310	WEMP	Milwaukee, Wis., from WISC

### RE-INSTATED

1310	NETB	Torreon, 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	WRBN	Roanoke, Va.

## QUICK INDEX to Station Data

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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
(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
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5:00-7:00	WTRC	1310	50	Elkhart
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#### November 3, 10, 17, 24

All Night	KNL	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	Ouirago
2:00-4:00	XEWZ	1150	100	Mexico City
2:30-4:00	CKWV	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	Waila Waila
(Frequency checks—WHDland WCAN)				
3:00-3:30	RN	1113	10000	Fecamp, France
3:00-4:00	CHWK	780	100	Chilliwack
(Frequency checks—WSYB to KIN)				

#### November 18

1:41-1:49	CFCY	630	1000	Charlottetown
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**November 25**  
 2:30-4:00 KADA 1200 100 Ada  
**November 4, 11, 18, 25**  
 12:01-1:00 WGES 1380 500 Chicago

**Tuesday Mornings**

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

**November 19**

1:01-1:09 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 WECB 1290 1000 Duluth  
 2:00-4:10 WIRE 1400 500 Indianapolis  
 (Frequency checks—WEBR to WTMV)  
 5:50-6:10 KVSQ 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 CFNB 550 500 Fredericton  
 2:00-2:30 KWTO 560 5000 Springfield  
 2:11-2:19 CHSK 1120 500 St. John  
 2:21-2:29 CKCW 1370 100 Moncton  
 2:30-3:00 WCMI 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 CFNB 580 500 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 880 500 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 988 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—WBRB to KGGM)

4:00-6:00 CMHX 780 500 Cienfuegos, Cuba

**November 9**

5:00-6:00 WNBX 1260 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

12:30-1:30 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., 0610-0640; 1010-1040; 1710-1740. Other days 0500-1945.

VAF, Alert Bay, B. C. 50 watts. Dominion Gov.  
 YDA8, Tandjongpriok, N. E. I. 500 W. N. V. Nederlandsch Indische-Radio Omroep Moatschapij, Konigsplein W. S. Batavia-Centrum, Java, N. E. I. Daily, 0530-1100; 1745-1845; 2230-0130.

1.530 megs. 195.96 m.

YDB7, Soerabaja, N. E. I. 75 watts. Address, see YDA8 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 YDA8, 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 YDA8, 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 Radio Omroep Moats-

## SHORT WAVE STATIONS BY FREQUENCIES

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

1.666 megs.	179.96 m.	Ecuador, Estonia, Union of South Africa, United States of America.
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.		
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.		
1.674 megs.	179.10 m.	
KGHK, Palo Alto, Calif. 20 watts. Municipal police.		
KGZT, Santa Cruz, Calif. 100 watts.		
KIUK, Jefferson City, Mo. State police.		
WPSP, Harrisburg, Pa. 1 kW. State police.		
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.		
WSXA, Portable in Ohio. 50 watts. Dept. of High- ways, Div. of State Highway Patrol.		
1.698 megs.	176.57 m.	
KNGG, Phoenix, Ariz. 1 kW. Arizona State Highway Dept.		
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.		
1.712 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.		
KGPI, Beaumont, Tex. City of B.		
KGPL, Los Angeles, Calif. City of L. A.		
KGPU, 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.		
YYR, Montreal, P. Q. 400 watts. Police calls in French and English. City of M. Police Dept.		
WPDB, 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.		
WPFA, 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.		
1.715 megs to 2.000 megs. 174.82 m. to 149.91 meters		
Amateur Band. Phones in following countries work between 1.875 and 2.000 megs. (149.91 m to 159.90 meters). Australia, Argentina, Canada		
1.840 megs.	162.95 m.	
YDJ4, Cheribon, N.E.I. Batavia Radio Vereeniging.		
1.850 megs.	162.06 m.	
YDUS, Bandjermasin, Borneo, N.E.I. Owner: "Eureka."		
1.860 megs.	161.19 m.	
YDK6, Semarang, N.E.I. Radio Vereeniging Midden Java.		
1.880 megs.	159.47 m.	
YD09, Soerabaja, N.E.I. Owner: Holvast.		
1.900 megs.	157.80 m.	
YD6G, Batavia, N.E.I. Batavia Radio Vereeniging.		
1.920 megs.	156.16 m.	
YDH9, Buitenzorg, N.E.I. Batavia Radio Vereeniging.		
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.	
YD08, 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.		
WJER, Broadcast pickup. WTMJ, The Journal Co., 332 W. State St., Milwaukee, Wisc.		
WMEF, Broadcast pickup. 150 watts. Address WIEO, 2,020 megs.		

## SHORT WAVE STATIONS BY FREQUENCIES

2.110 meg. 142.09 m. W1XH, Boston, Mass. YD12, Soekaboemi, N.E.I., Batavia Radio Vereeniging.		landsche Indische Radio Omroep Moetschappij, Koningsplein W. 5, Batavia-Centrum, Java. 0530-1100; 1745-1845; 2230-0130.
2.150 meg. 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. Ferosa 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. WMCA, 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.	2.382 meg. 125.87 m. KGHT, Brownsville, Tex. 25 watts. City of B. KGHV, 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.	
2.190 meg. 136.90 m. KIIH, 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.	2.390 meg. 125.45 m. WIED, Broadcast pickup. 50 watts. N. B. C. 38 Rockefeller Plaza, N. Y. City. WIEX, Broadcast pickup. 50 watts. Address WIED above.	2.385 meg. 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.
2.212 meg. 135.54 m. VYZ, High Falls, P. Q. 50 watts. James McLaren Co., Ltd.	2.396 meg. 125.14 m. VYM, Winnipeg, Man. 600 watts. Board of Police Commissioners. Tests 15, 35 and 55 minutes past each hour.	
2.284 meg. 131.22 m. CFT, Leamington, Ont. 14 watts. Dept. of Public Works. CFX, Pelee Island, Ont. 22 watts. Dept. of Public Works. CKB, Pictou, 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, Pictou Island, N. S. 15 watts. Dept. of Public Works.	2.406 meg. 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.	
2.290 meg. 130.93 m. CFV, Namu, B. C. 100 watts. British Columbia Packers, Ltd. CFW, Benes Bay, B. C. 100 watts. Canadian Fishing Co., Ltd. CJE, Ceaseceae, 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, Hemaiko, B. C. 100 watts. Hemaiko Logging Co., Ltd.	2.414 meg. 124.20 m. KGHW, Centralia, Wash. 15 watts. City of C. Police. KGPB, Seattle, Wash. Seattle Police Dept. KGGF, 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. 500 watts. City of C. Police. KNFI, Mt. Vernon, Wash. 500 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. WPDY, Detroit, Mich. City of D. Police. WPFY, Atlanta, Ga. City of A. Police. WPFH, Baltimore, Md. City of B. Police. WPGH, Columbus, Ga. City of C. Police. WPGI, 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. ..... Oneonta, N. Y. 50 watts.	
2.304 meg. 130.13 m. KBAI, Ketchikan, Alaska. Forestry. KMYA, Juneau, Alaska. Forestry.	2.415 meg. 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.	
2.350 meg. 127.58 m. VBQ, Halifax, N. S. 25 watts. Works ships in harbor. YDE5, Djokjakarta, N. E. I. 25 watts. N. V. Neder-		

## SHORT WAVE STATIONS BY FREQUENCIES

2.416 megas. 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 megas. 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.  
**WNFP**, Niagara Falls, N. Y. 135 watts. City of N. F.  
**WPDR**, 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 megas. 123.38 m.  
**KGHX**, Santa Ana, Calif. 400 watts. Orange county Police.  
**KGPB**, Minneapolis, Minn. 500 watts. City of M.  
**KGZJ**, Phoenix, Ariz. Municipal Police.  
**KNGP**, Shreveport, La. 100 watts.  
**WPDI**, Columbus, Ohio. Franklin County Police.  
**WPDN**, Dayton, Ohio. City of D. Police.  
**WPDG**, 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 megas. 122.77 m.  
**KGHU**, Austin, Texas. 100 watts. City of A. Police.  
**KGPP**, Portland, Ore. City of P. Police.  
**KGXP**, Denver, Colo. City and County of D. Police.  
**KGZM**, Klamath Falls, Ore. City of K. F. Police.  
**KGZR**, Salem, Ore. 50 watts. City of S. Police.  
**WMDZ**, Indianapolis, Ind. Municipal Police.  
**WPDE**, 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.  
**WPEC**, Muskegon, Mich. City of M. Police.  
**WPEF**, Reading, Pa. City of R. Police.  
**WPFJ**, 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.  
**WPHY**, Yorkers, N. Y. 490 watts. City of Y. Police.  
**WPFZ**, Miami, Fla. 100 watts. City of M. Police.  
**WPLG**, Binghamton, N. Y. 400 watts. City of B.  
**WPGP**, 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 megas. 122.38 m.  
**KGHN**, Hutchinson, Kans. 50 watts. City of H.  
**KGPH**, Oklahoma City, Okla.  
**KGPO**, Tulsa, Okla. City of Tulsa Police.  
**KGZP**, 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.  
**WPKD**, 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 megas. 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 megas. 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.  
**WPDQ**, Akron, Ohio. 250 watts. City of A. Police.  
**WPDV**, Charlotte, N. C. City of C. Police.  
**WPFJ**, 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 megas. 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.  
**KGPI**, Omaha, Nebr. City of O. Police.  
**KGPK**, Sioux City, Iowa. City of S. C. Police.  
**KGPM**, San Jose, Calif.  
**KGPN**, Davenport, Iowa. City of D. Police.  
**KGZG**, Des Moines, Iowa. City of D. M. Police.  
**WPEC**, Memphis, Tenn. City of M. Police.  
**WPEM**, 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.  
**WPGB**, 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.  
**WPHA**, Fitchburg, Mass. 50 watts. City of F. Police.  
**WPHN**, Tampa, Fla. 100 watts. City of T. Police.  
**WPHJ**, 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 megas. 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.  
**WPDJ**, Philadelphia, Pa. City of P. Police.  
**WPFQ**, Knoxville, Tenn. City of K. Police.  
**WPFK**, Swarthmore, Pa. Borough of S. Police.  
**WPFJ**, Asheville, N. C. 200 watts. Buncombe County Police.  
**WPGJ**, 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.  <b>KGZE</b>, San Antonio, Tex. City of S. A. and State of Texas Police.  <b>WPGT</b>, New Castle, Pa. 50 watts. City of N. C. Police.  <b>WPHZ</b>, Oil City, Pa. 50 watts. City of O. C. Police.            ..... , Monessen, Pa. 50 watts.            ..... , Sharon, Pa.</p>	<p>2.538 megs. 118.13 m.  <b>KDH</b>, Port Alexander, Alaska. Karl Hansen.  <b>KDK</b>, Wrangell, Alaska. Works <b>KIJB</b>, <b>KLA</b>, <b>KFF</b>.  <b>KLD</b> daily at 0130. Owner: A. R. Brueger.  <b>KDV</b>, Cordova (Eyak River), Alaska. Pioneer Sea Foods Co.  <b>WNFG</b>, M. S. Arb No. 3. Owner: A. R. Brueger.</p>
<p>2.490 megs. 120.41 m.  <b>KGHA</b>, Snowplow No. A232, 10 watts. State of Wash.  <b>KGHB</b>, Snowplow No. A227. 10 watts. State of Wash.  <b>KGHC</b>, Portable in Washington. 10 watts. State of W.  <b>KGHD</b>, Seattle, Wash. 50 watts. State of Wash.  <b>KGHE</b>, Snoqualmie Pass, Wash. State of W., Highway &amp; Police Dept.  <b>KGHQ</b>, Chinook Pass, Wash. 10 watts. State of W., Highway &amp; Police.  <b>KGHR</b>, Portable in Wash. 10 watts. State of Wash.  <b>KGZD</b>, San Diego, Calif. City of S. D. Police. Two transmitters, one 50 watts and another, 100 watts.  <b>KGZU</b>, Lincoln, Nebr. City of L. Police.  <b>KNFG</b>, Olympia, Wash. 50 watts. State of W. Police.  <b>KNFK</b>, Bellingham, Wash. 50 watts. State of Wash.  <b>KNFL</b>, Shuksan Camp, Wash. 10 watts. State of Wash. Highways.  <b>KNFM</b>, Compton, Calif. 25 watts.  <b>KNFR</b>, Rotary Snow Plow. 10 watts. State of Wash., Highway and Police Dept.  <b>KNFS</b>, Rotary Snow Plow. 10 watts. State of Wash., Highway and Police Dept.  <b>KNFU</b>, Skykomish, Wash. 10 watts. State of W.  <b>KNFX</b>, Ellenburg, Wash. 10 watts. Address <b>KNFS</b> above.  <b>KNFY</b>, Boar River Camp, Wash.  <b>KNFZ</b>, Hells Crossing Camp, Wash. 10 watts.  <b>KNGA</b>, Satus Pass Camp, Wash. 10 watts.  <b>KNGB</b>, Yakima, Wash. 50 watts.  <b>KNGC</b>, Vancouver, Wash. 50 watts.  <b>KNGD</b>, Walla Walla, Wash. 10 watts.  <b>KNGJ</b>, El Centro, Calif. 50 watts.  <b>KNGN</b>, Norfolk, Nebr. 25 watts.  <b>KNGQ</b>, Wenatchee, Wash. 50 watts. Address <b>KNFS</b>.  <b>KNGR</b>, Spokane, Wash. 50 watts. Address <b>KNFS</b>.  <b>WPDT</b>, Kokomo, Ind. City of K. Police.  <b>WPDZ</b>, Fort Wayne, Ind. City of F. W. Police.  <b>WPPF</b>, Clarksburg, W. Va. City of C. Police.  <b>WPGN</b>, South Bend, Ind. 100 watts. City of S. B. Police.  <b>WPGO</b>, Huntington, N. Y. 25 watts. Town of H. Police.  <b>WPGS</b>, Mineola, N. Y. County of Nassau Police.  <b>WPHI</b>, Charleston, W. Va. 50 watts. City of C. Police.  <b>WPHJ</b>, Fairmont, W. Va. 100 watts.  <b>WPHQ</b>, Parkersburg, W. Va. 50 watts. City of P. Police.            ..... , Ephrata, Wash. 10 watts. State of Wash., Highway &amp; Police.</p>	<p>2.550 megs. 117.58 m.  <b>WMES</b>, Lorain, Ohio. 500 watts. Public Coastal Station. Lorain County Radio Corp.</p> <p>2.566 megs. 116.84 m.  <b>KFF</b>, Union Bay, Alaska. Works <b>KDK</b>. Nakat Packing Corp.  <b>KHV</b>, Nakeen, Alaska. Nakat Packing Corp.  <b>KLA</b>, Waterfall, Alaska. Works <b>KDK</b>. Address above.  <b>KLD</b>, Hidden Inlet, Alaska. Works <b>KDK</b>. Address above.  <b>KOU</b>, Wilmington, Calif. Southern Calif. Telephone Co.  <b>WLFP</b>, M. S. "Alaskan". Works <b>KDK</b>.            A number of Motorships owned by the Nakat Packing Corp. work on this frequency.</p> <p>2.590 megs. 115.76 m.  <b>WOX</b>, St. George, Staten Island, N. Y. Harbor phone. New York Telephone Co.</p>
<p>2.506 megs. 119.64 m.  <b>KLH</b>, San Rafael, Calif. Pacific Telephone &amp; Telegraph Co.  <b>WOU</b>, Marshfield, Mass. Phones fishing vessels.</p>	<p>2.604 megs. 115.14 m.  <b>KNIA</b>, Glacier National Park, Montana.  <b>KNKS</b>, Yosemite National Park, Calif.  <b>KNKU</b>, Yosemite National Park, Calif.  <b>KNKX</b>, Deer Camp, Yosemite, Calif.  <b>KNKY</b>, Devil's Post Pile Nat'l. Monument, Calif.  <b>WVD</b>, Seattle, Wash. 500 watts. Alaskan Telephone Co., 517 Federal Office Bldg., Seattle.  <b>WXH</b>, Ketchikan, Alaska. Works <b>WVD</b>.  <b>WYBF</b>, Napoleon, Mo. 500 watts. United States Army.</p> <p>2.616 megs. 114.61 m.  <b>KION</b>, Tin City, Alaska. 200 watts. American Tin Fields, Inc.</p>
<p>2.512 megs. 119.36 m.  <b>KGM</b>, Ketchikan, Alaska. Alaska Pacific Salmon Co.  <b>KLB</b>, Port Althorp, Alaska. Address <b>KGM</b> above.  <b>KLC</b>, Kake, Alaska. Address <b>KGM</b> above.  <b>KLE</b>, Rose Inlet, Alaska. Address <b>KGM</b>.  <b>SHIPS</b> owned by Alaska Pacific Salmon Co. as follows:  <b>KGJK</b>, Jeannette E.; <b>KGNM</b>, Doris E.;  <b>KGNX</b>, Yes Bay; <b>WDEM</b>, Wm. T. Muir;  <b>WFR</b>, Frances E.; <b>WIDL</b>, Leonine; <b>WIDM</b>, Sally S.; <b>WIDN</b>, Virginia E.; <b>WNFM</b>, Alco.</p>	<p>2.632 megs. 113.91 m.  <b>KGI</b>, Nellie Juan, Alaska. (<b>KIOD</b>) Copper River Packing Co.  <b>KGX</b>, Port Wakefield, Alaska. (<b>KIOC</b>) Apex Fish Co.  <b>KIJW</b>, Shearwater Bay, Alaska. Kadiak Fisheries Co.  <b>KIJX</b>, Kadiak Island, Alaska. Kadiak Fisheries.  <b>KIMA</b>, Port Hobron, Alaska. American Pacific Whaling Co.  <b>KIOC</b>, Port Wakefield, Alaska. (<b>KGX</b>) Apex Fish Co.  <b>KIOD</b>, Nellie Juan, Alaska. 50 watts. Phones Anchorage and ships. Copper River Packing Co.  <b>KIOH</b>, Iron Creek (Rasperry Straits), Alaska. 50 watts. Southwestern Herring Co.  <b>KIOI</b>, Akutan, Alaska. 50 watts. American Pacific Whaling Co.            ..... , Funter Bay Camp, Alaska.</p>
<p>2.525 megs. 118.88 m.  <b>KOW</b>, Edmonds, Wash. Pacific Telephone &amp; Telegraph Co.</p>	<p>2.670 megs. 112.29 m.  <b>NMC</b>, Point Bonita, Calif. 200 watts. United States Coast Guard.  <b>NMD</b>, Cleveland, Ohio. 200 watts.  <b>NMF</b>, Winthrop, Mass. 200 watts. U. S. Coast Guard.  <b>NMG</b>, Mobile, Ala. U. S. Coast Guard.  <b>NMN</b>, Cape Henry, Va. 200 watts. U. S. Coast Guard.  <b>NMP</b>, Wilmette, Ill. 200 watts.  <b>NMV</b>, Fort Lauderdale, Fla. 200 watts. U. S. Coast Guard.  <b>NMW</b>, Grays Harbor, Wash. 200 watts.  <b>NMY</b>, Rockaway Point, N. Y. 200 watts. U. S. Coast Guard.  <b>NOB</b>, Buffalo, N. Y. 200 watts. U. S. Coast Guard.  <b>NOF</b>, St. Petersburg, Fla. 200 watts. U. S. Coast Guard.</p>

## SHORT WAVE STATIONS BY FREQUENCIES

NOG, Gloucester, Mass. 50 watts. U. S. Coast Guard Base 7.	2.850 megas.	105.20 m.
NOJ, San Pedro, Calif. 200 watts. U. S. Coast Guard Base 17.	YDG4, Batavia, Java, N. E. I. Owner: Lindeteves Stokvis.	
NOM, Miami, Fla.	2.870 megas.	104.47 m.
NOP, Woods Hole, Mass. 50 watts. U. S. Coast Guard, Section Base 18.	YDA6, Cheribon, N. E. I. 15 watts.	
NOR, Sault Ste. Marie, Mich. 200 watts.	YDJ3, Tegai, N. E. I. Owner: v. Wingen.	
NOR, New London, Conn. 200 watts. U. S. Coast Guard.	2.890 megas.	103.74 m.
NOV, Cape May, N. J. 200 watts. U. S. Coast Guard.	YDJ2, Pekalongan, N. E. I. Owner: v. Wingen.	
NOY, Galveston, Texas. 200 watts.	2.910 megas.	103.03 m.
NOZ, Port Townsend, Wash. 200 watts.	YDE3, Semarang, N. E. I. 15 watts.	
....., Yaquina Bay, Ore. U. S. C. G.	YDK3, Semarang, N. E. I. Owner: v. Wingen.	
2.698 megas.	111.13 m.	
NMD, Cleveland, Ohio. 200 watts.	2.912 megas.	102.96 m.
NMP, Wilmette, Ill. 200 watts.	KHW, Akutan, Alaska. American Pacific Whaling Co.	
NOB, Buffalo, N. Y. 200 watts. U. S. Coast Guard.	KHZ, Port Hobron, Alaska. Address KHW.	
NOR, Sault Ste. Marie, Mich. 200 watts.	2.930 megas.	102.33 m.
....., Arena Cove, Calif. Works NMC. U. S. C. G.	WMEP, Suffield, Ohio. 200 watts.	
2.710 megas.	110.63 m.	
YDK5, Semarang, N. E. I. Radio Vereniging Midden-Java.	WMEU, St. Petersburg, Fla. 400 watts.	
2.726 megas.	109.98 m.	
KIHW, San Gabriel Dam No. 2, Calif. 200 watts. Los Angeles County Flood Control District.	WMEV, Opa Locka, Fla. (Goodyear Zeppelin Base). 400 watts.	
KIIX, Tujunga Dam No. 1, Calif. Address KIHW above.	WDO5, Soerabaja, N. E. I. Owner: Goldberg.	
KIHY, Los Angeles, Calif. 400 watts. Address KIHW above.	2.950 megas.	101.63 m.
KINT, Portable, Los Angeles County, Calif. 50 watts. Address above.	YDQ5, Malang, N. E. I. Owner: Vls.	
2.728 megas.	109.90 m.	
KIJY, Hood River, Ore. 100 watts. Special emergency station owned by Crag Rats, Inc., a mountain-climbing organization.	2.980 megas.	100.61 m.
KIJZ, Portable in Oregon. See above.	CZA, Drummondville, P. Q. 4 kW. Phones ships. Canadian Marconi Co., Box 1690, Montreal, P. Q.	
2.738 megas.	109.50 m.	
KLKG, M. S. La Merced. Alaska Southern Packing Co.	2.986 megas.	100.41 m.
VGBQ, Yacht Seyelyn II. Capt. Paul F. Johnson.	KDX, M. S. LaMerced (vessel moored in vicinity of False Pass, Alaska). 50 watts. Alaska Southern Packing Co.	
WDDQ, "Zapora" Willis Navigation Co.	KGQ, Todd, Alaska. Peril Straits Packing Co.	
WDFL, "El Ferrito". Ben S. McGlashan, KGFJ. 1417 S. Figueroa, Los Angeles.	KIJP, Uganik, Alaska. Works KIJR, KIJU. San Juan Fishing & Packing Co.	
WIFI, S. S. Cadrew, in Seattle Harbor, Wash. Works ships in harbor. Owner, A. E. Griswold.	KIJR, Port San Juan, Alaska. Works KIJP, KIJU. Address KIJP.	
WLFJ, "Onawa". C. M. Poncin.	KIJU, Todd, Alaska. Works KIJR, KIJP. Peril Straits Packing Co.	
WLFS, "Uganik". San Juan Fishing & Packing Co.	WNFJ, M. S. Sunset. Alaska Southern Packing Co.	
WOFM, "Principia". L. A. Macomber.	2.994 megas.	100.14 m.
2.750 megas.	109.03 m.	
YDL6, Djokjakarta, N. E. I. Owner: v. Wingen.	KDY, Pillar Bay, Alaska. Fidalgo Island Packing Co.	
2.760 megas.	108.63 m.	
KNED, Broadcast pickup. 50 watts. (WBAP) Blackstone Hotel, Ft. Worth, Texas.	KIEJ, Poorman, Alaska. 50 watts. Owner: W. N. Grown.	
WIEO, Broadcast pickup. 50 watts. N. B. C., 30 Rockefeller Plaza, N. Y. City.	KIJJ, Tanana, Alaska. Northern Commercial Co.	
WMEF, Broadcast pickup. 150 watts. Address WIEO above.	KIJK, Circle, Alaska. 50 watts. Phones Fairbanks, Anchorage, etc. Northern Commercial Co.	
2.770 megas.	108.24 m.	
YD06, Soerabaja, N. E. I. Owner: Eureka.	KIIL, Fort Yukon, Alaska. 50 watts. Phones WXP Fairbanks, and WXE Anchorage. Northern Commercial Co.	
2.790 megas.	107.45 m.	
YDN3, Madioen, N. E. I. Owner: v. Wingen.	KIIM, Hot Springs, Alaska. 50 watts. See KIIL above.	
2.810 megas.	106.70 m.	
YDQ6, Malang, N. E. I. Owner: v. Wingen.	KIIN, Eagle, Alaska. 50 watts. See KIIL above.	
2.830 megas.	105.94 m.	
YDU4, Medan, Sumatra, N. E. I. Owner: Avrom.	KIIO, McGrath, Alaska. 50 watts. See KIIL above.	
	KIJB, Cape Polo, Alaska. 50 watts. A. R. Brueger.	
	KILY, Excursion Inlet, Alaska. 50 watts. Astoria & Puget Sound Canning Co.	
	KNBZ, Pillar Bay, Alaska. (KDY) Address KDY above.	
	3.046 megas.	98.62 m.
	CFQ, Edmonton, Alta. Edmonton Journal, Ltd.	
	CGE, Calgary, Alta. 100 watts. Calgary Herald Ltd., Southam Bldg.	
	CKS, Portable. 100 watts. Calgary Herald; see above.	
	YDA, Tandjongprieck, N. E. I. 19 kW. N. V. Nederlandsche Indische Radio Omroep Maatschappij, Koningsplein West 5. Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.	
	3.070 megas.	97.66 m.
	CJU, Winnipeg, Man. Canadian Airways, Ltd.	

## SHORT WAVE STATIONS BY FREQUENCIES

(Western Lines), 60 Brock St., Winnipeg. WKDL, Miami, Fla. (airway). WMDU, San Juan, Puerto Rico. (airway).	3.290 megs.	91.13 m.
	YDD3, Soerabaja, N. E. I. Owner: Radio Electric.	
	3.300 megs.	90.85 m.
KIAP, Rose Inlet, Alaska. 100 watts. Alaska Pacific Salmon Co.	CZV, Waterloo Mine, B. C. Waterloo Gold Mines. Ltd.	
KIAW, Port Althorp, Alaska. Address KIAP above.	YDG7, Batavia, Java, N. E. I. Owner: Pianohandel Kok.	
KIAY, Ketchikan, Alaska. Address KIAP above.	3.310 megs.	90.58 m.
KIBA, Kake, Alaska. Address KIAP above.	YDH4, Bandoeng, Java, N. E. I. Owner: Luyks.	
KICI, View Cove, Dall Island, Alaska. 50 watts. Superior Portland Cement Co.	3.320 megs.	90.31 m.
KIIP, Willow Creek Mines, Luckyshot, Alaska. 30 watts. Phones Anchorage. Owner: W. E. Dunkle.	YDM2, Tjopoe, N. E. I. Radio Vereeniging.	
KIKN, Eyak River, Alaska. 50 watts. Pioneer Sea Foods Co.	3.330 megs.	90.04 m.
	YDV2, Bandjormasin, Borneo, N. E. I. Owner: Eureka.	
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.	3.340 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.	
3.130 megs.	95.79 m.	
YDH6, Bandoeng, N. E. I. Owner: Prot. Kerk.	3.350 megs.	89.50 m.
	YDQ3, Malang, N. E. I. Owner: Lammeree.	
3.150 megs.	95.18 m.	
YDG3, Batavia, Java, N. E. I. Owner: Luyks.	3.370 megs.	88.97 m.
	YDU2, Medan, Sumatra, N. E. I. Owner: Avrom.	
3.152 megs.	95.12 m.	
CGM, Montreal, P. Q. Canadian Marconi Co., Box 1690, M. Phones CGY.	3.385 megs.	88.57 m.
CGY, Yamachiche, P. Q. Phones CGM. Address CGM above.	KBAA, Portland, Ore. Forestry. KBCA, Santa Barbara, Calif. KBCE, Santa Barbara, Calif. KBCC, Yreka, Calif. KBCH, Oakland, Calif.	
3.155 megs.	95.03 m.	
KBCJ, San Francisco, Calif. Weather Bureau.	3.387 megs.	88.50 m.
3.170 megs.	94.58 m.	
YDO4, Soerabaja, N. E. I. Owner: Jarico.	KGYA, Longmire, Wash. Forestry station. Address Mr. R. D. Waterhouse, Mount Rainier National Park, Longmire. KGYB, Longmire, Wash. Address KGYA above. KGYC, Paradise, Wash. Address KGYA above. KGYD, Sunnriso, Wash. Address KGYA above. KGYE, White River, Wash. Address KGYA above. KGYF, Carbon, Wash. Address KGYA above. KGYG, Portable station of the Forestry Dept. of the State of Washington. KGYH, same as KGYG above. KGYI, same as KGYG above. KNLS, Gobblers Knob, Mt. Ranier Nat'l. Park, Wash. KNLX, Shriners Peak, Mt. Ranier Nat'l. Park, Wash.	
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: Wels.		
3.210 megs.	93.40 m.	
YDL5, Djokjakarta, N. E. I. Owner: Heliant Muller.	3.390 megs.	88.44 m.
3.230 megs.	92.82 m.	
YDQ4, Malang, N. E. I. Owner: Radinova.	3.410 megs.	87.92 m.
3.250 megs.	92.25 m.	
YDH5, Garoet, Java, N. E. I. Bandoeng Radio Vereeniging.	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, Poe 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, Huron Island Lighthouse, Mich. Address WRJ above. WWE, Fourteen Foot Shoals Lighthouse, Mich. Address WRJ.	
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.		

## SHORT WAVE STATIONS BY FREQUENCIES

<b>WWG</b> , Cheboygan Range Lighthouse, Mich. Address WRJ above.		<b>East Radio Station.</b> Announcements in Russian, Chinese, English. Never verifies; mailing address unknown. Daily, 0300-0900.
<b>WWH</b> , Stannard Rock Lighthouse, Mich. Address WRJ above.		4.276 megs. 70.11 m.
<b>WWHJ</b> , Delaware Breakwater Station, Philadelphia, Pa. Address WRJ.		<b>WIR</b> , Rocky Point, N. Y. 40 kW. Works Port-au-Prince, Santo Domingo. Address R. C. A., Central Frequency Bureau, 66 Broad St., N. Y. C.
<b>WWM</b> , Marquette Lighthouse, Mich. Address same as WRJ above.		4.280 megs. 70.05 m.
<b>WWN</b> , Detroit River Lighthouse, Mich. Address WRJ above.		<b>IBEJ</b> , S. S. Conte Rosso. Works IAC, W30.
<b>WWR</b> , Detroit, Michigan. Lighthouse station. Address WRJ.		<b>IBGI</b> , S. S. Conte Verde. Works IAC, W30.
<b>WWZ</b> , Key West, Fla. Lighthouse. Address WRJ above.		<b>IBLI</b> , S. S. Conte di Savoia. Works IAC, W0D.
<b>YDL4</b> , Djokjakarta, N. E. I. Owner: Vadera.		<b>ICEJ</b> , S. S. Rev. Works IAC, W0D.
3.423 megs. 87.53 m.		4.283 megs. 70.00 m.
<b>WOZ</b> , New York, N. Y. American Telephone & Telegraph Co., 32 Sixth Ave., NYC.		<b>HC2JSB</b> , Guayaquil, Ecuador. Interval sig.: one stroke on gong. Daily exc. Monday, 2015-2315.
3.430 megs. 87.41 m.		4.295 megs. 69.81 m.
<b>YD02</b> , Soerabaja, N. E. I. Owner: Soekaradio.		<b>WTDV</b> , St. Thomas, Virgin Islands. 250 watts. Mr. H. M. McKenzie.
3.445 megs. 87.03 m.		<b>WTDW</b> , St. Croix, Virgin Islands. 250 watts.
<b>KBAM</b> , Grants Pass, Ore. Forestry.		<b>WTDX</b> , St. John, Virgin Islands. 250 watts.
<b>KBCC</b> , North Fork, Calif.		4.320 megs. 69.49 m.
<b>KBCE</b> , North Fork, Calif.		<b>DAF</b> , Norden, Germany. Phones ships. Hauptfunkstelle Norddeich, Norden-Land, Germany.
<b>KBCE</b> , North Fork, Calif.		4.320 megs. 69.40 m.
3.450 megs. 86.90 m.		<b>GDB</b> (GGRX), Rugby, England. 15 kW. Engineer-in-Chief. GPO (Radio Section), Armour House, St. Martins Le Grand, London EC1, England.
<b>YDL3</b> , Solo, N. E. I.		4.348 megs. 68.92 m.
3.452 megs. 86.85 m.		<b>CGA9</b> , Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.
<b>CJU</b> , Winnipeg, Man. Canadian Airways Ltd. (Western Lines), 60 Brock St., Winnipeg.		4.355 megs. 68.84 m.
3.470 megs. 86.40 m.		<b>IAC</b> , Coltano, Italy. 56 kW. Phones ships. Radiomarittimo Coltano Radio IAC, Piza, Italy.
<b>YDG2</b> , Batavia, Java, N. E. I. Owner: Batavia Radio Vereeniging.		4.390 megs. 68.30 m.
3.490 megs. 85.91 m.		<b>FNSK</b> , S. S. Normandie. Works Paris. French Lines, Pier 88, North River, Foot of W. 48th St., N. Y. C.
<b>YDH3</b> , Bandoeng, Java, N. E. I. Owner: de Kort.		4.410 megs. 67.99 m.
3.493 megs. 85.83 m.		<b>FNSK</b> , S. S. Normandie. Works W0D. Address 4390 megs.
<b>W7XK</b> , Seattle, Wash. 80 watts. Northern Radio Co., Kulien Bldg.		4.413 megs. 67.94 m.
<b>AMATEURS WORK BETWEEN 3.500 and 4.000 megs. (74.96 to 85.66 meters). Phones between 3.900 and 4.000 megs.</b>		All these ships work with W0D. The German ships also work DAF; British ships with GBC:
3.750 megs. 79.95 m.		<b>DDBR</b> , S. S. Berlin. North German Lloyd, Pier 42, North River. Foot of Morton St., N. Y. City.
<b>CT1CT</b> , Lisbon, Portugal. 500 watts. "Radio Eddy-stone". Sr. Oscar G. Lomelino, Rua Gomez Freire 79, 2-D, Lisbon. Daily, 0900-1100.		<b>DDCP</b> , S. S. Cap Polonia.
3.800 megs. 78.90 m.		<b>DDFF</b> , S. S. Reliance.
<b>ZP11</b> , Asuncion, Paraguay.		<b>DDFT</b> , S. S. Oceana.
4.000 megs. 74.96 m.		<b>DHAO</b> , S. S. Albert Ballin. Hamburg American Lines, Pier 86, North River, W. 46th St., N. Y. C.
<b>CT2AJ</b> , Ponta Delgada, Azores. 50 watts. Mr. H. E. J. Smith, St. Michael, Ponta Delgada. Wed., Sat., 1700-1900.		<b>DHDL</b> , S. S. Cap Arcona.
4.098 megs. 73.16 m.		<b>DHEY</b> , S. S. Deutschland.
<b>WND</b> , Hialeah, Fla. 400 watts. Phones ZFS Nassau.		<b>DHJZ</b> , S. S. Hamburg. Address DHAO above.
4.178 megs. 71.76 m.		<b>DHRL</b> , S. S. New York. Address DHAO above.
<b>W00</b> , Ocean Gate, N. J. 20 kW. Phones ships. American Telephone & Telegraph Co., Long Lines Dept., 32 Sixth Ave., N. Y. C.		<b>DHTY</b> , S. S. Resolute.
<b>W0Y</b> , Lawrenceville, N. J. 20 kW. Address W00		<b>DOAH</b> , S. S. Bremen. North German Lloyd, Pier 4, Foot of 58th St., Brooklyn, N. Y.
4.253 megs. 70.50 m.		<b>DOAI</b> , S. S. Europa. Address DOAH above.
<b>WKF</b> , Lawrenceville, N. J. A. T. & T. Address W00 above.		<b>DOBX</b> , S. S. Columbus. Address DOAH above.
<b>W0G</b> , Ocean Gate, N. J.		<b>FNSM</b> , S. S. Paris. French Lines, Pier 57, Hudson River, New York City.
4.273 megs. 70.16 m.		<b>FTNQ</b> , S. S. Ile de France. Address FNSM above.
<b>RV15</b> , Khabarovsk, USSR (Siberia). 20 kW. "Far		<b>GBZW</b> , S. S. Berengaria. International Marine Radio Co., Ltd., Connaught House, 62 Alwyeh, 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.		
GMBJ, S. S. Empress of Britain.		
GMIQ, S. S. Belgenland. Address GBZW above.		
	4.415 megs.	67.91 m.
GLRZ, S. S. Aquitania. Address GBZW, 4.413 megs.		
	4.430 megs.	67.68 m.
GBC, Rugby, England. Works ships. Address GDB, 4.320 megs.		
GDLJ, S. S. Homeric. Address GBZW, 4.413 megs.		
VQJM, S. S. Monarch of Bermuda.		
VQJP, S. S. Queen of Bermuda.		
	4.465 megs.	67.14 m.
CFA2, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.		
	4.470 megs.	67.07 m.
YDB, Soerabaja, N. E. I. 1 kW.		
YID, Bagdad, Iraq.		
	4.505 megs.	66.55 m.
CGO, Ocean Falls, B. C. North-West Telephone Co., Corner 2nd Ave. and Wylie St., Vancouver, B. C.		
CZO, Prince George, B. C. Address CGO above.		
CZP, Claydon Bay, B. C. Address CGO above.		
	4.512 megs.	66.44 m.
ZFS, Nassau, Bahamas. Works WNC Hialeah. Office of Supt. of Telegraphs, Central Bay St., Nassau N. P., Bahamas.		
	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.		
	4.540 megs.	66.04 m.
WIR, Rocky Point, N. Y. 40 kW. Works Port-au-Prince, Santo Domingo. Address WDG, 4.535 megs.		
	4.550 megs.	65.89 m.
WDN (W2XBJ), Rocky Point, N. Y. Address WDG, 4.535 megs.		
	4.580 megs.	65.46 m.
DJG, Zeesen, Germany. Reichs-Rundfunk-Gesellschaft, Haus des Rundfunks, Masurenallee, Berlin-Charlottenburg 9, Germany.		
	4.600 megs.	65.18 m.
HC2ET, Guayaquil, Ecuador. Interval sig.: 12 chimes. P. O. Box 249. Fri., Sat., 2130-2300.		
	4.610 megs.	65.04 m.
KMYA, Juneau, Alaska. Forestry.		
	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.		
WOY, Lawrenceville, N. J. 20 kW. Address WOO above.		
	4.755 megs.	63.05 m.
CFU, Rossland, B. C. Consolidated Mining & Smelting Co.		
	4.785 megs.	62.66 m.
CZA, Drummondville, P. Q. Phones ships. Canadian Marconi, Box 1690, Montreal.		
	4.810 megs.	62.33 m.
YDE2, Solo, N. E. I. 100 watts.		
YDL2, Solo, N. E. I. Owner: Solosche Radio Vereeniging.		
	4.840 megs.	61.95 m.
CZV, Waterloo Mines, B. C. Waterloo Gold Mines, Inc.		
	4.865 megs.	61.63 m.
CGT, Campbell River, B. C. North-West Telephone Co., Corner 2nd and Wylie St., Vancouver, B. C.		
	4.875 megs.	61.50 m.
RKF, Moscow, USSR. 20 kW.		
	4.975 megs.	60.27 m.
GBC, Rugby, England. 5 kW. Phones ships. Address GDW, 4.820 megs.		
	4.988 megs.	60.11 m.
WWAD, S. S. Violet. Works Lighthouses on Great Lakes.		
	5.015 megs.	59.78 m.
IS3, Bolling Field, Va. United States Army airport.		
	5.025 megs.	59.67 m.
ZFA, St. George (Hamilton) Bermuda. 1.5 kW. Phones WOB nights.		
	5.040 megs.	59.49 m.
RIR, Tiflis, USSR. 4 kW.		
	5.140 megs.	58.33 m.
PMY, Bandoeng, N. E. I. 600 watts. Bandoeng Radio Vereeniging, Nilmy Bldg., Bandoeng. 0040-0240; 0640-0940.		
	5.260 megs.	57.00 m.
YDU3, Medan, Sumatra, N. E. I. Owner: Meyer.		
	5.263 megs.	56.96 m.
WQN, Rocky Point, N. Y. Address WDG, 4.535 megs.		
	5.300 megs.	57.57 m.
ZFO, Cat Cay, Bahamas. 50 watts. Address ZFS, 4.512 megs.		
	5.375 megs.	55.78 m.
RSB, Stalinsk, USSR. 2 kW.		
	5.400 megs.	55.52 m.
HAT, Szekesfehervar, Hungary. 6 kW. "Justice for Hungary!" Announcements French, English, Hungarian by lady. Address: Magyar Kiralyi Postakiserleti 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 mogs.	54.11 m.	5.845 mogs.	51.30 m.
VXU, Regina, Sask. Dept. of Natural Resources, Govt. of the Province of Sask.		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 mogs.	51.25 m.
5.550 mogs.	54.02 m.	WOB, Lawrenceville, N. J. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. C.	
I2RO, Rome, Italy. Ente Italiano per le Audizioni Radiofoniche, Via Montello 5, Rome.		YV5RMO, Maracaibo, Venezuela. "Ecos del Caribe." (member Gadena Indo-Americana.) One gong precedes station announcement. Programs close with Blue Danube March. Address: Sr. Santiago M. Vegas, Apartado 214. Daily exc. Sun., 1130-1300; 1730-2130.	
5.660 mogs.	52.97 m.		
CFD, Kenora, Ont. 150 watts. Ont. Dept. of Land <sup>s</sup> and Forests.		5.885 mogs.	51.12 m.
CFJ, Red Lake, Ont. Address CFD above.		HI1J, San Pedro de Macoris, D. R. Daily 1700-2030.	
CFU, Rossland, B. C. Consolidated Mining & Smelting Co. of Canada, Ltd.		5.875 mogs.	51.03 m.
5.710 mogs.	52.51 m.	YV8RB, Barquisimeto, Venezuela. "La Voz de Lara."	
JDZ, Darien. Works JVU nazaki.		5.890 mogs.	50.90 m.
5.720 mogs.	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, Taihoku (Chureki) Taiwan. Works JVG, JVL, JVV.	
5.725 mogs.	52.37 m.	5.900 mogs.	50.82 m.
I2RO, Rome, Italy. Address EIAR, 5.550 mogs.		HJ4ABE, Medellin, Colombia. 1kW. (relays HJ4ABK) "La Voz de Antioquia." Daily, 1900-2300. Owner: Jose M. Acevedo F.	
5.730 mogs.	52.32 m.	5.940 mogs.	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 mogs.	52.00 m.	5.970 mogs.	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 19 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-Vaticana, Pontificia Accademia Della Scienze, Roma-Castina Pio IV, Citta del Vaticano. Schedule: Sundays and holidays, 0500-0530. Daily, 1400-1415.	
5.780 mogs.	51.87 m.	5.980 mogs.	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 mogs.	51.78 m.	HJ2ABD, Bucaramanga, Colombia. 100 watts. Sr. Hector McCormick.	
JVU, Nazaki, Japan. 10 kW. Works JZA-B-C. Address JVV, 5730 mogs.		XECW, Mexico City. D. F. 10 watts. "del Caballero Santokan." add: Calle del Bajio 120. Daily 2300-2400.	
5.795 mogs.	51.74 m.	5.995 mogs.	50.01 m.
KZGH, Iloilo, P. I. (Iloilo Island). Inter-Island phone. Philippine Long Distance Tele. Co.		RPT, Tashkent, USSR. 1 kW.	
5.810 mogs.	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 mogs.	50.00 m.
5.815 mogs.	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: l'Internationale. Add: Inna Marr, Central Radio Committee, Petrovka 12, Moscow. (temporarily discontinued).	
5.820 mogs.	51.52 m.		
CEC, La Granja (Santiago) Chile. Compania Internacional de Radio, Casilla 16-D, Santiago de Chile.			
5.825 mogs.	51.47 m.		
TIGPH, San Jose, Costa Rica. "Alma Tica." 1900-2200.			
HJA2, Bogota, Colombia.			
KZGG, Cebu, Isl. of Cebu, P. I. Inter-Island phone. Philippine Long Distance Telephone Co.			
5.830 mogs.	51.43 m.		
WQN, Rocky Point, N. Y. R. C. A., Central Frequency Bureau, 66 Broad St., New York City.			
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

<p>6.000 megs. 49.97 m.  <b>XEBT</b>, Mexico City, D. F. 1 kW. Interval sig.: cuckoo, rooster, bugle, auto horn, fire bell. Relays <b>XEB</b>. Add: El Buen Tono S. A., Apartado 79-44. Daily 1000 to 0115.</p> <p><b>XGQX</b>, Nanking, China (proposed). Administration of Central Broadcasting Stations, Central Executive Committee of Kuomintang, Nanking.</p>	<p>6.060 megs. 49.48 m.  <b>OXY</b>, Skamliebaek, Denmark (Copenhagen). 500 watts. Chimes at 6 p.m. EST. Add: Harold J. Rud, Press Secretary, Statsradlofonien, Heibergsgade 7, Copenhagen. Daily 1300-1830.</p> <p><b>VQ7LO</b>, Nairobi, Kenya Colony. Cable &amp; 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><b>W3XAU</b>, Philadelphia (Newton Square) Pa. Relays <b>WCAU</b>, CBS, WCAU Building, 1622 Chestnut St., 2100-2300.</p> <p><b>W8XAL</b>, Cincinnati (Mason) Ohio. 10 kW. Relays <b>NBC-WLW</b>. Crosley Radio Corp., 1329 Arlington St. Daily exc. Sun., 0630-2000; Sun., 0800-2000; daily exc. Sat., 2300-0200; Sat., 2300-0300.</p> <p><b>ZHI</b>, 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>
<p>6.005 megs. 49.93 m.  <b>VE9DN</b>, Drummondville, P. Q. Canadian Marconi Co., P. O. Box 1690, Montreal.</p> <p><b>VE9DR</b>, Montreal, P. Q. Address <b>VE9DN</b> above.</p>	<p>6.070 megs. 49.39 m.  <b>IRA</b>, Rome, Italy. Address <b>EIAR</b>, 5,550 megs.</p> <p><b>VE9CS</b>, Vancouver, B. C. 2-10 watts. Radio Service Engineers Ltd., 734 Davie St. Daily 2000-2200.</p>
<p>6.006 megs. 49.92 m.  <b>HJ1ABJ</b>, Santa Marta, Colombia. 50 watts. "La Voz de Santa Marta." Member Cadena Indo-Americana. Sr. Julio A. Sanchez T.</p>	<p>6.072 megs. 49.37 m.  <b>OER2</b>, Vienna, Austria. 1.5 kW. Oesterr. Radioverkehrs A. G., Wien I, Johannesgasse 4b. Sat., 0900-1800; Sun., silent; other days, 0900-1700.</p> <p><b>CQN</b>, Macau. 500 watts. Ann: Portuguese and English. Mon., Fri., 0300-0500.</p>
<p>6.010 megs. 49.89 m.  <b>COCO</b>, 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>	<p>6.080 megs. 49.31 m.  <b>CP5</b>, La Paz, Bolivia. "Radio Illimani." Compania Radio Boliviana, Casilla 637. Daily, 2000-2100.</p> <p><b>DJM</b>, Zeesen, Germany. Add: <b>DJC</b>, 6,020 megs.</p> <p><b>HJN</b>, Bogota, Colombia. Sr. Luis Ramirez Arana, Jefe del Servicio de Inalambricos, Ministerio de Correos y Telegrafos.</p> <p><b>VE9EH</b>, Charlottetown, P. E. I. 250 watts. Relays <b>CFCY</b>. Island Radio Broadcasting Co., Ltd., 143 Great George St.</p> <p><b>W9XAA</b>, Chicago, Ill. 500 watts. Relays <b>NBC-WCFE</b>. Daily exc. Sun., 0930-1800; Sun., 1130-2100. Mr. Maynard Marquardt, Chicago Federation of Labor, 666 Lake Shore Drive.</p> <p><b>ZHJ</b>, Penang, Straits Settlements. 49 watts. Hon. Secy., Penang Wireless Society, 40 Perak Road. Daily exc. Sun., 0640-0840.</p>
<p>6.012 megs. 49.87 m.  <b>HJ3ABH</b>, 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>	<p>6.085 megs. 49.27 m.  <b>I2RO</b>, Rome, Italy. Address <b>EIAR</b>, 5,550 megs.</p>
<p>6.020 megs. 49.80 m.  <b>DJC</b>, 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>	<p>6.090 megs. 49.23 m.  <b>VE9BJ</b>, St. John, N. B. 50 watts. C. A. Munro Ltd., Canterbury Street.</p> <p><b>CRCX</b>, Bowmansville, Ont. 200 watts. Relays Canadian Radio Commission-CRCT. Address: R. R. No. 4. Daily 1830-2330.</p>
<p>6.030 megs. 49.72 m.  <b>HP5B</b>, Panama City, Panama. 100 watts. "Estacion Miramar". Address: Estacion Radiodifusora Miramar de la Radio Panama S. A., Apartado 910. Daily, 1900-2200.</p> <p><b>VE9CA</b>, 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>	<p>6.100 megs. 49.87 m.  <b>GSA</b>, 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>6.040 megs. 49.64 m.  <b>W1XAL</b>, Boston, Mass. Address: Educational Director, University Club, Boston. Tues., Thurs., 1930-2130; Sun., 1700-1900.</p> <p><b>W4XB</b>, Miami, Fla. (transmitter on Collins Island). 2500 watts. Relays <b>WIOD</b>. Isle of Dreams Broadcasting Co. Sun., 1130-1500; 1708-2400. Weekdays, 1208-1400; 1730-2400.</p> <p><b>YDA</b>, Tandjongprieik, N. E. I. 10 kW. Key Station, NIRM Network. N. V. Nederlandsche Indische Radio Omroep (Moatschappij, Koningsplein West 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.</p>	<p>6.110 megs. 49.87 m.  <b>GSL</b>, Daventry, England. "L for Liberty." Int. sigs:</p>
<p>6.042 megs. 49.62 m.  <b>HJ1ABG</b>, Barranquilla, Colombia. 150 watts. "Emisora Atlantico." Member, Cadena Indo-Americana. Interval sig: 4-note chime. Address: Sr. Andres Jimeno, Apartado 445.</p>	

## SHORT WAVE STATIONS BY FREQUENCIES

<p><b>Bow Bells and Big Ben.</b> Sign off: God Save the King. Address GSA, 6.050 megas. Daily, 2200-2300.</p> <p><b>HJ4ABB, Manizales, Colombia.</b> 300 watts. "Radio Manizales." Sr. Ernesto Villegas.</p> <p><b>VE9CG, Calgary, Alta.</b> Calgary Herald, Ltd.</p> <p><b>VE9HX, Halifax, N. S.</b> The Maritime Broadcasting Co., Box 998.</p> <hr/> <p style="text-align: center;">6.112 megas.                      49.05 m.</p> <p><b>VUC, Calcutta, India.</b> Indian State Broadcasting Service, 1 Garstin Place.</p> <p><b>YV2RC, Caracas, Venezuela.</b> 1 kW. "Broadcasting Caracas." "La Habla a la Nacion." Apartado 2009. Sun., 0930-2230; weekdays, 1030-1330; 1600-2200.</p> <hr/> <p style="text-align: center;">6.115 megas.                      49.03 m.</p> <p><b>HJ1ABE, Cartagena, Colombia.</b> 180 watts. "La Voz de los Laboratorios Fuentes." Address: Laboratorios Fuentes L., Apartado 31.</p> <hr/> <p style="text-align: center;">6.120 megas.                      48.99 m.</p> <p><b>W2XE, New York, N. Y. (Wayne, N. J.)</b> 10 kW. Relays CBS-WABC. Columbia Broadcasting System, 485 Madison Ave. at 52nd St., N. Y. C. Daily, 1800-2300.</p> <p><b>YDA5, Bandoeng, Java, N. E. I.</b> 1.5 kW. N. V. Nederlandsch Indische Radio Omroep Maatschappij, Tegallengah 0.23, Bandoeng. 0530-1100; 1745-1845; 2230-0330.</p> <hr/> <p style="text-align: center;">6.122 megas.                      48.97 m.</p> <p><b>ZTJ, Johannesburg, Union of South Africa.</b> 5 kW. African Broadcasting Co., Joubert St. P. O. Box 4559.</p> <hr/> <p style="text-align: center;">6.125 megas.                      48.95 m.</p> <p><b>ZGE, Kuala Lumpur, Federated Malay States.</b> 180 watts. Hon. Secy., the Malayan Amateur Radio Society, Mercantile Bank Bldg., K. L. Sun., Tues., Fri., 0640-0840.</p> <hr/> <p style="text-align: center;">6.130 megas.                      48.91 m.</p> <p><b>COCD, Vedado, Havana, Cuba.</b> 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.</p> <p><b>LCL, Jeloy, Norway.</b> Director General, Administration des Telegraphes du Royaume de Norvege, Oslo, Norway.</p> <hr/> <p style="text-align: center;">6.132 megas.                      48.89 m.</p> <p><b>CT1GO, Parede, Portugal.</b> Sun., 1130-1300; Sun., Tues., Wed., Thurs., Fri., 1920-2030.</p> <hr/> <p style="text-align: center;">6.135 megas.                      48.87 m.</p> <p><b>RKK, Moscow, USSR.</b> 20 kW.</p> <hr/> <p style="text-align: center;">6.140 megas.                      48.83 m.</p> <p><b>W8XK, Pittsburgh (Saxonburg), Pa.</b> 40 kW. Relays NBC-KDKA. Westinghouse Electric &amp; Manufacturing Co., Grant Bldg., Pittsburgh. Daily, 2100-0100.</p> <hr/> <p style="text-align: center;">6.145 megas.                      48.79 m.</p> <p>..... Villejust, France. 120 kW. (Under constr.)</p> <hr/> <p style="text-align: center;">6.150 megas.                      48.75 m.</p> <p><b>CJRO, Winnipeg, Man. (Middlechurch).</b> Relays CRC programs. James Richardson &amp; Sons, Ltd., Royal Alexandria Hotel, Winnipeg. Daily, 2000-2400.</p> <p><b>CO9GC, Santiago de Cuba.</b> Relays CMKB. "Ask for Bacardi." Laboratorio Radio-electrico, Sres. Grau y Caminero. Apartado 137. Daily, 0930-1000; 1245-1330; 1530-1615.</p>	<p><b>CSL, Lisbon, Portugal.</b></p> <p><b>YV3RC, Caracas, Venezuela.</b> "Radiodifusora Venezuela YV3RC en Caracas." Bajos Pasaje Ramella. 1700-2200.</p> <hr/> <p style="text-align: center;">6.170 megas.                      48.60 m.</p> <p><b>HJ2ABA, Tunja, Colombia.</b> 50 watts. "Ecos de Boyaca." Member: Cadena Indo-Americana. Sr. Pompelio Sanchez.</p> <hr/> <p style="text-align: center;">6.200 megas.                      48.36 m.</p> <p><b>HJ3ABF, Bogota, Colombia.</b> 50 watts. "La Voz de Bogota." Interval sig.: 6 chimes. Daily 1900-2300.</p> <hr/> <p style="text-align: center;">6.230 megas.                      48.13 m.</p> <p><b>HJ4ABC, Perelra, Colombia.</b> 50 watts. "La Voz de Pereira." 0930-1100; 1900-2000.</p> <p><b>OAX4G, Lima, Peru.</b> Relays OAX4C. R. Grellaud y Cie. Daily, 1900-2100.</p> <hr/> <p style="text-align: center;">6.240 megas.                      48.05 m.</p> <p><b>HI1A, Santiago de los Caballeros, D. R.</b> "La Voz del Yaque." Daily 1930-2130; Sun., 0100.</p> <hr/> <p style="text-align: center;">6.380 megas.                      47.59 m.</p> <p><b>HJ1ABH, Cienega, Colombia.</b> 48 watts. Sergio Martinez Aparicio, Jr. Tues., Fri., 1945-2200.</p> <hr/> <p style="text-align: center;">6.315 megas.                      47.48 m.</p> <p><b>HIZ, Santo Domingo, D. R.</b> 100 watts. Operator. Frank Hutton, Calle Duarte No. 68. Sat., 2300-0100; daily exc. Sun., 1700-1800.</p> <hr/> <p style="text-align: center;">6.330 megas.                      47.36 m.</p> <p><b>JZG, Nazaki, Japan.</b> 10 kW. Works ships. Kokusai-Denwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.</p> <hr/> <p style="text-align: center;">6.375 megas.                      47.03 m.</p> <p><b>YV4RC, Caracas, Venezuela.</b> "La Florida." "Estacion S.A.R." Member: Cadena Indo-Americana. Address: Estacion SAR, Este 10, Bis No. 71. Caracas. Daily, 1630-2230.</p> <hr/> <p style="text-align: center;">6.385 megas.                      46.94 m.</p> <p><b>BC1, Chanute Field, Rantoul, Ill.</b> Army airport.</p> <p><b>IS3, Bolling Field, Va. (Washington, D. C.)</b> Army airport.</p> <p><b>WO9, Mitchell Field, Mineola, Long Island.</b> Army airport.</p> <p><b>WTR, Albrook Field, Canal Zone.</b> Army airport.</p> <hr/> <p style="text-align: center;">6.400 megas.                      46.85 m.</p> <p><b>YV9RC, Caracas, Venez.</b> "Ondas Populares."</p> <hr/> <p style="text-align: center;">6.410 megas.                      46.77 m.</p> <p><b>T1PG (T1ZPG), San Jose, Costa Rica.</b> 1 kW. "La Voz de la Victor." Perry Girton, Apartado 224. Sun., 0600-0700; 1100-2230. Weekdays, 1100-1300; 1730-2230.</p> <hr/> <p style="text-align: center;">6.425 megas.                      46.66 m.</p> <p><b>CZG, Prince Rupert, B. C. B. C. Provincial Police.</b></p> <p><b>VE9AS, Fredericton, N. B.</b> Address: C/o Electrical Engineering Dept., University of New Brunswick.</p> <p><b>VK1, Selfridge Field, Mt. Clemens, Mich.</b> Army airport.</p> <p><b>W3XL, Bound Brook, N. J.</b> 18 kW. NBC Control station and cue station for nearly all special "stunt" broadcasts. Address NBC, 38 Rockefeller Plaza, N. Y. City.</p> <p><b>W9XF, Chicago, (Downers Grove) Ill.</b> Address W9XF 6.100 megas.</p> <p><b>W9XQ, same as W9XF above.</b></p> <p><b>W9XBS, same as W9XF above.</b></p>
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## SHORT WAVE STATIONS BY FREQUENCIES

6.440 mgs.	46.56 m.	voice is used. Reports from readers of actual VOICE reception are requested.
RTA, Novosibirsk, USSR.	15 kW.	
6.445 mgs.	46.52 m.	6.662 mgs. 45.00 m.
PD1, Maxwell Field, Montgomery, Ala. Army airport.		WXH, Ketchikan, Alaska. Phones Seattle.
PE2, Wright Field, Dayton, Ohio. Army airport.		6.666 mgs. 44.98 m.
6.447 mgs.	46.50 m.	ZP10, Asuncion, Paraguay.
HJIAB, Barranquilla, Colombia. 300 watts. "La Voz de Barranquilla." Relays HJIABA. Address: Elias J. Pellet B., Apartado 715. Daily, 1700-2200.		6.672 mgs. 44.94 m.
6.450 mgs.	46.48 m.	YVQ, Maracay, (Santa Rita), Venezuela. Address: Estados Unidos de Venez., Servicio Radiotelegrafico.
YN1CG, Managua, Nicaragua. "La Voz de los Lagos." Raul Gutierrez U. & Cie., Ltd. Daily, 1245-1430; 1900-2145.		6.675 mgs. 44.91 m.
6.490 mgs.	46.20 m.	DGK, Nauen, Germany. Address: Reichspostzentramt, Telegraphentechnisches Reichsam, Schoneberger Strasse 11-15, Berlin-Tempelhof.
HJ5ABD, Cali, Colombia. "La Voz del Valle." Apartado 270. Thurs., Sat., Sun., 1900-2100.		6.690 mgs. 44.82 m.
6.500 mgs.	46.13 m.	CGA6, Drummondville, P. Q. Address VE9DN, 6.005 mgs.
HIL, Santo Domingo, D. R. Mr. J. C. Pellicer, Box 623. HI4D, Santo Domingo, D. R. "La Voz de Quisqueya." 1300-1340; 1640-1940; daily exc. Sun.		6.710 mgs. 44.68 m.
6.520 mgs.	45.98 m.	TIEP, San Jose, Costa Rica. "La Voz del Tropico." Sr. Eduardo Pinto Hernandez, Apartado 257. Member: Cadena Indo-Americana. Daily, 1900-2200.
YV6RV, Valencia, Carabobo, Venezuela. "La Voz de Carabobo." Sres. Hermann y Williams Degwitz.		6.718 mgs. 44.62 m.
6.550 mgs.	45.76 m.	KBK, Manila, P. I. 50 kW. Radio Corp. of the Philippines, Plaza Moraga, Manila.
TIRCC, San Jose, Costa Rica. 500 watts. "Radioemisora Catolica Costaricense". Box 1064.		WDB, Rocky Point, N. Y. Works Havana. Radio Corp. of A., Central Frequency Bureau, 66 Broad St., N. Y. City.
6.590 mgs.	45.50 m.	6.720 mgs. 44.62 m.
ZEA, Salisbury, Southern Rhodesia. 500 watts. Works ZEB.		CFU, Rossland, B. C. Consolidated Mining & Smelting Co.
ZEB, Bulawayo, Southern Rhodesia. 500 watts. Works ZEA.		6.725 mgs. 44.57 m.
6.610 mgs.	45.36 m.	WQO, Rocky Point, N. Y. Address WDB. 6.718 mgs.
CWE, Cerrito (Montevideo) Uruguay. 1.5 kW.		6.735 mgs. 44.53 m.
6.615 mgs.	45.32 m.	KEQ, Kahuku, Oahu, Hawaii. Works California.
KIKL, Los Angeles, Calif.		6.750 mgs. 44.42 m.
WMEP, Suffield, Ohio. 400 watts. Airways.		JVT, Nazaki, Japan. 20 kW. Works Dixon and broadcasts. Address JZG. 6.330 mgs.
WMEQ, Wheeling, Ill. Airways.		ZBW, Hong Kong. 250 watts. Address: Betty Billings, Secy., Hong Kong Broadcasting Committee, P. O. Box 200.
WMEU, St. Petersburg, Fla. 400 watts. Airways.		6.755 mgs. 44.38 m.
WMEV, Opa Locka, Fla. (Goodyear Zeppelin Base). 400 watts.		WOA, Lawrenceville, N. J. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. City.
6.618 mgs.	45.31 m.	6.760 mgs. 44.35 m.
WVD, Seattle, Wash. Phones Alaska. Alaskan Telephone Co., 517 Federal Office Bldg.		CJA6, Drummondville, P. Q. Address VE9DN, 6.005 mgs.
6.620 mgs.	45.29 m.	6.790 mgs. 44.16 m.
PRADO, Riobamba, Ecuador. "Estacion El Prado." Member: Cadena Indo-Americana. Apartado 98. Thurs., 2100-2330 and other nights irregularly.		GDB, Rugby, England. Address GDW, 4,820 mgs.
6.645 mgs.	45.12 m.	6.800 mgs. 44.09 m.
BF4, Kelly Field, San Antonio, Tex. Army airport.		HHH, San Pedro de Macoris, D. R. "La Voz del Higuamo." 75 watts. Sr. Domingo Dominguez. Daily 1600-2030. Sunday, 0300-0400.
FG7, Langley Field, Va. Army airport.		6.860 mgs. 43.71 m.
IS3, Bolling Field, Va. (Washington, D. C.) Army airport.		KEL, Bolinas, Calif. RCA Communications, Inc. Pacific Division, 28 Geary St., San Francisco, Calif.
6.650 mgs.	45.09 m.	6.870 mgs. 43.64 m.
HC2RL, Guayaquil, Ecuador. "Quinta Piedad." Address: Dr. Roberto Levi, Apartado 759. Tues., 2114-2314; Sun. 1745-1945.		RKF, Moscow, USSR. 20 kW.
IAC, Coltao, Italy. 14 kW. Works ships. Address IAC, 4.355 mgs.		
This frequency has been assigned to certain SHIPS but it is not known whether or not		

## SHORT WAVE STATIONS BY FREQUENCIES

CGA7, Drummondville, P. Q. Address VE9DN, 6.005 megs. RKF, Moscow, USSR. 20 kW.	6.880 megs. 43.58 m.	HJ3ABD, Bogota, Colombia. 50 watts. "Colombia Broadcasting." Apartado 509. Daily, 1930-2300.	7.390 megs. 40.57 m.
RKF, Moscow, USSR. 20 kW.	6.900 megs. 43.45 m.	JVR, Nazaki, Japan. Works Hongkong. Address JZG, 6.330 megs.	7.400 megs. 40.51 m.
GDS, Rugby, England. 15 kW. Phones N. Y. nights Address GDW, 4.820 megs.	6.905 megs. 43.42 m.	ZLR, Wellington, N. Z. 1 kW. Works VLJ. Address: Supt. of Post and Telegraphs, G. P. O.	7.400 megs. 40.51 m.
WEZ, Rocky Point, N. Y. Address WDB, 6.718 megs.	6.928 megs. 43.27 m.	WEM, Rocky Point, N. Y. Works London, Honolulu. Address WDB, 6.718 megs.	7.465 megs. 40.16 m.
WEB, Rocky Point, N. Y. Works Paris. Address WDB, 6.718 megs.	6.935 megs. 43.23 m.	HJP, Bogota, Colombia. Works Hialeah nights.	7.470 megs. 40.14 m.
WKP, Rocky Point, N. Y. Address WDB, 6.718 megs.	6.950 megs. 43.13 m.	JVQ, Nazaki, Japan. 10 kW. Works PLE, PLV. Address JZG, 6.330 meg.	7.510 megs. 39.92 m.
JVS, Nazaki, Japan. Works Shanghai. Address JZG, 6.330 megs.	6.990 megs. 42.89 m.	JVP, Nazaki, Japan. 20 kW. Works Europe. Address JZG, 6.330 megs.	7.520 megs. 39.87 m.
HB9H, Berne, Switzerland. Swiss Shortwave Association, 30 Neuengasse, Berne. First Monday each month, 1500-1615.	7.000 megs. 7.300 m. 41.07 meters to 42.83 meters. Amateur Band. Foreign amateurs use phone in this band. USA, code only.	KDK, Kahuku, Oahu, Hawaii. Works Dixon. (?) KKH, Kahuku, Oahu, Hawaii. Works Dixon. RKI, Moscow, USSR. 20 kW. ....., Kahuku, Oahu, Hawaii. Works GMBJ.	7.550 megs. 39.71 m.
VP3MR, Georgetown, Br. Guiana. "The Voice of Guiana." Sun., 0745-1015; Mon., 1545-1645; Thurs., 1700-1845; Mon., Wed., Sat., 1845-1945.	7.005 megs. 42.80 m.	CFQ, Edmonton, Alta. The E. Journal, Ltd. CGE, Calgary, Alta. The Calgary Herald, Southam Bldg. CKS, Portable. Address CGE above.	7.565 megs. 39.63 m.
HKE, Bogota, Colombia. 138 watts. Observatorio Nacional de San Bartolome.	7.080 megs. 42.35 m.	KWY (W6XN), Dixon, Calif. Address: Transpacific Communication Co., Ltd., 140 New Montgomery St., San Francisco.	7.575 megs. 39.58 m.
CR6AA, Lobito, Portuguese West Africa. "Radio Eddystone." The Manica Trading Co., Ltd., Caixa Postal 118, Lobito.	7.090 megs. 42.29 m.	XGO, Shanghai, China. Chinese Govt. Radio Administration, Sassoon House, Jinkee Road.	7.610 megs. 39.40 m.
HAT2, Szekeferhervar, Hungary. 6 kW. "Justice for Hungary!" Announcements Hungarian, French, English by lady. Address: Magyar Kiralyi Postakiserleti Allomas, IX Kerulet Gyaly Ut 22, Budapest.	7.175 megs. 41.78 m.	KWX (W6XN), Dixon, Calif. Address KWY, 7.565 megs.	7.626 megs. 39.32 m.
RPK, Moscow, USSR. 20 kW.	7.220 megs. 41.53 m.	RIM, Tashkent, USSR. Works RKI. 20 kW.	7.680 megs. 39.04 m.
RFF, Kharkov, USSR. 1 kW.	7.225 megs. 41.50 m.	YBZ, Menado, Celebes, N. E. I. Works PNI, Macassar. Address: Mr. H. Van der Veen, Engineer-in-charge, Post-Telegraafen TelefoonDienst, Bedrijf der Radiostations op Java, Bandoeng.	7.685 megs. 39.01 m.
RTZ, Irkutsk, USSR. 15 kW.	7.260 megs. 41.30 m.	HJA3, Barranquilla, Colombia. TIR, Cartago, Costa Rica. Address: Compania Radiografica Internacional de C. R., San Jose.	7.715 megs. 38.86 m.
HJ1ABD, Cartagena, Colombia. 50 watts. "Ondas de la Heroica." Jzd. Villarreal, Director, Apartado 252. Daily, 1945-2115.	7.275 megs. 41.23 m.	KEE, Bolinas, Calif. Address KEL, 6.860 megs.	7.740 megs. 38.74 m.
WJN, Rocky Point, N. Y. Address WDB, 6.718 megs.	7.280 megs. 41.18 m.	CEC, La Granja (Santiago) Chile. Address CEC, 5.820 megs.	7.797 megs. 38.47 m.
XECR, Mexico City, D. F. Announcements: Spanish, English. Address: Departamento de Publicidad de la Secretaria de Relaciones Exteriores. Sunday, 1800-1900.	7.370 megs. 40.68 m.	HBP, Prangins (Geneva) Switzerland. 20 kW. "Radio Nations." Works USA and broadcasts. Programs consist of talks in English, French, Spanish. Address: M. G. Gallarati, Information Section, League of Nations. Geneva. Sat., 1730-1815.	

## SHORT WAVE STATIONS BY FREQUENCIES

OCO, Lima (Valverde) Peru.	7.820 megs.	38.34 m.	8.464 megs.	35.42 m.
	7.830 megs.	38.29 m.	DAF, Norden, Germany.	Works ships. Address Hauptfunkstelle Norddeich, Norden-Land.
HC2JSB, Guayaquil, Ecuador.	Interval sig.: one gong.		8.500 megs.	35.27 m.
JYR, Kemikawa-Cho, Chiba-Ken, Japan.	5 kW. Experimental.		JZF, Nazaki, Japan.	10 kW. Works ships. Address JZG, 6.330 megs.
	7.920 megs.	37.86 m.		
GCP, Rugby, England.	Address GDW. 4.820 megs.		8.560 megs.	35.03 m.
	7.960 megs.	37.67 m.	WOO, Ocean Gate, N. J.	20 kW. Works ships. American Telephone & Telegraph Co., Long Lines Dept., 32 Sixth Ave., N. Y. C.
VLZ (VK2ME), Pennant Hills (Sydney), N. S. W., Australia.	3.5 kW. Address: Amalgamated Wireless (A/sia) Ltd., 47 York St., Sydney.		WOY, Lawrenceville, N. J.	20 kW. Address WOO above.
XGL, Shanghai, China.	Address: XGO, 7.575 megs.			
	7.968 megs.	37.63 m.	8.565 megs.	35.00 m.
HSP, Bangkok, Siam.	20 kW. Address Post and Telegraph Dept.		HAT3, Szekesfehervar, Hungary.	20 kW. "Justice for Hungary!" Announce in Hungarian, French, English by lady. Address HAT2, 7.220 megs.
	7.980 megs.	37.57 m.		
VLZ (VK2ME), Pennant Hills (Sydney) Australia.	Address VLZ, 7.960 megs.		YCP, Balikpapan, N. E. I.	3 kW. Address YBZ. 7.680 megs.
HSJ, Bangkok, Siam.	20 kW. Address HSP. 7.968 megs.			
	8.020 megs.	37.38 m.	8.620 megs.	34.78 m.
CNR, Rabat, Morocco.	12 kW. Phones Paris. Direction de l'Office des Postes, des Telegraphes et des Telephones du Maroc. Rabat.		WVD, Seattle, Wash.	Works Alaska at 2400. Alaskan Telephone Co., 517 Federal Office Bldg., Seattle.
	8.035 megs.	37.31 m.		
WXA, Juneau, Alaska.	Works WVD at 2400.		8.625 megs.	34.76 m.
	8.070 megs.	37.15 m.	HC2CW, Guayaquil, Ecuador.	"Ondas del Pacifico."
IRF, Rome, Italy.	Works N. Y. Societe Italo Radio, Servizi Radioelectrici, Via Calabria No. 46-48, Roma 125, Italy.			
	8.095 megs.	37.04 m.	8.665 megs.	34.60 m.
VLK, Pennant Hills (Sydney) Australia.	Address VLZ, 7.960 megs.		C09JQ, Camaguey, Cuba.	150 watts. Rafael Grimany. Calle General Gomez No. 4.
	8.120 megs.	36.92 m.		
KTP, Manila, P. I.	Phones Dixon near 1000. Address KBK, 6.718 megs.		8.680 megs.	34.54 m.
	8.180 megs.	36.65 m.	GBC, Rugby, England.	Works ships. Address GDW. 4.820 megs.
PSK, Rio de Janeiro (Marapicu) Brazil.	Phones N. Y. and Buenos Aires. Companhia Radio Internacional do Brasil, Caixa Postal 709, Rio de Janeiro.			
	8.214 megs.	36.50 m.	8.690 megs.	34.50 m.
HCJB, Quite, 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.		VWZ, Kirkee, Poona, India.	10 kW. Works also on freqs. 8.691, 8.693, 8.700 megs. Phones London.
	8.220 megs.	36.47 m.		
ZSV, Walvis Bay, Union of South Africa.	1 kW.		8.708 megs.	34.43 m.
	8.225 megs.	36.45 m.	VWZ, Kirkee, Poona, India.	10 kW. Phones London.
RRD, Moscow, USSR.	20 kW.			
	8.396 megs.	35.71 m.	8.710 megs.	34.42 m.
HSP, Bangkok, Siam.	20 kW. Address HSP, 7.968 megs.		CEC, La Granja, (Santiago) Chile.	800 watts. Address CEC. 5.820 megs.
	8.455 megs.	35.46 m.		
CWF, Montevideo (Cerrito) Uruguay.	1.5 kW.		8.770 megs.	34.19 m.
			RSZ, Irkutsk, USSR.	15 kW. Tests with RNE.
			8.775 megs.	34.16 m.
			PNI, Macassar, Celebes, N. E. I.	3 kW. Phones Bandaeng. Address YBZ, 7.680 megs.
			8.790 megs.	34.11 m.
			HJA3, Barranquilla, Colombia.	
			8.810 megs.	34.03 m.
			FNSK, S. S. Normandie.	Works Paris nights. French Lines, Pier 88, North River, Foot of W. 48th St., N. Y. C.
			8.830 megs.	33.95 m.
			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.
			DDBR, S. S. Berlin.	
			DDCP, S. S. Cap Polonio.	
			DDFF, S. S. Reliance.	
			DDFT, S. S. Oceana.	
			UHAO, S. S. Albert Ballin.	
			DHDL, S. S. Cap Arcona.	
			DHEY, S. S. Deutschland.	

## SHORT WAVE STATIONS BY FREQUENCIES

DHJZ, S. S. Hamburg.	9.415 mogs.	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 Veen, Post-Telegraafen Telefoon dienst, Bedrijf der Radiostations op Java, Bandoeng.
DHTY, S. S. Resolute.	9.428 mogs.	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, 1000-1100.
DOAI, S. S. Europa.	9.448 mogs.	31.74 m.
DOBX, S. S. Columbus.	WES, Rocky Point, N. Y.	Address WAD, 8.930 mogs.
FNSK, S. S. Normandie.	9.450 mogs.	31.73 m.
	Works WOO nights.	Address 8.810 mogs.
FNSM, S. S. Paris.	9.460 mogs.	31.69 m.
FTNQ, S. S. Ile de France.	WKJ, New Brunswick, N. J.	Address WNA, 9.170 mogs.
GBZW, S. S. Berengaria.	9.470 mogs.	31.66 m.
GDLJ, S. S. Homeric.	WET, Rocky Point, N. Y.	Works Buenos Aires, Caracas. Address WAD, 8.930 mogs.
GFVW, S. S. Majestic.	9.490 mogs.	31.59 m.
GLRZ, S. S. Aquitania.	KZGH, Iloilo, P. I.	Inter-Island phone. Philippine Long Distance Telephone Co.
GLSQ, S. S. Olympic.	OXY, Copenhagen, Denmark.	Not used at present.
GMBJ, S. S. Empress of Britain.	SR1, Poznan, Poland.	1 kW. Tues., 1300-1500; Wed., 0800-0900. Radio Pozanski, Plac Wolnosce 11, Rozglosnia, Poznan. (This station is probably off the air).
GMJQ, S. S. Belgenland.	9.500 mogs.	31.56 m.
VQJM, S. S. Monarch of Bermuda.	XGOX, Nanking, China.	See 6.000 mogs.
VQJP, S. S. Queen of Bermuda.	9.503 mogs.	31.55 m.
	8.900 mogs.	33.69 m.
ZLS, Wellington, N. Z.	Address Supt. of Post and Telegraphs, G.P.O.	
	8.930 mogs.	33.57 m.
WAD, Rocky Point, N. Y.	R. C. A., Central Frequency Bureau, 66 Broad St., N. Y. City.	
WEC, Rocky Point, N. Y.	Address WAD above.	
	8.940 mogs.	33.54 m.
KZGG, Cebu, Island of Cebu, P. I.	Inter-Island phone. Philippine Long Distance Telephone Co.	
WKL, Rocky Point, N. Y.	Address WAD, 8.930 mogs.	
	8.950 mogs.	33.50 m.
WEL, Rocky Point, N. Y.	Address WAD, 8.930 mogs.	
	8.975 mogs.	33.41 m.
VWY, Kirkee, Poona, India.	Phones London.	
	9.010 mogs.	33.28 m.
KEJ, Bolinas, Calif.	20-40 kW. Address KEL, 6.860 mogs.	
	9.020 mogs.	33.24 m.
GCS, Rugby, England.	15 kW. Phones N. Y. night.	
	9.050 mogs.	33.13 m.
TFK, Reykjavik, Iceland.	8.5 kW.	
	9.120 mogs.	32.88 m.
CP6, La Paz, Bolivia.	"Illimani Radio." Compania Radio Boliviana, Casilla 637.	
	9.125 mogs.	32.86 m.
HAT4, Szekesfehar, Hungary.	20 kW. "Justice for Hungary!" Announce in Hungarian, French, English by lady. Address HAT2, 7.220 mogs.	
	9.168 mogs.	32.70 m.
YVR, Santa Rita, Maracay, Venezuela.	Address YVQ, 6.672 mogs.	
	9.170 mogs.	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 mogs.	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 mogs.	32.13 m.
CGA4, Drummondville, P. Q.	Phones London. Address VESDN, 6.005 mogs.	
	9.505 mogs.	31.54 m.
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.	
	9.510 mogs.	31.53 m.
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 mogs. Daily, 0115-0315; 1215-1500; 1515-1645.	
	9.520 mogs.	31.49 m.
XEDQ, Guadalajara, Jal.	Relays XED. Address Cia. Radiofonografica, Apartado 197. Daily, 0800-0900; 1200-2400.	
	9.530 mogs.	31.46 m.
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.	
	9.540 mogs.	31.43 m.
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, 5.020 mogs.	

## SHORT WAVE STATIONS BY FREQUENCIES

LKJ1, Jeloy, Norway. 500 watts. Address LCL, 6.130 megas. Daily, 0500-0800.	9.630 megas.	31.13 m.	I2RO, Rome, Italy. Address Ente Italiano Audizioni Radiofoniche, Via Montello 5, Rome. American Hour broadcast Mon., Wed., Fri., 1800-1930.
9.555 megas. 31.38 m.			
VE9DN, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.	9.710 megas.	30.88 m.	GCA, Rugby, England. 15 kW. Phones N. Y. and Buenos Aires. Address GCB, 9.280 megas.
9.560 megas. 31.36 m.			
DJA, Zeesen, Germany. For details see DJN, 9.540 megas.	9.750 megas.	30.75 m.	RKF, Moscow, USSR. 20 kW.
9.565 megas. 31.35 m.			VLJ, Sydney (Pennant Hills), Australia. 3.5 kW. Phones Bandoeng. Address VK2ME. 9.585 megas.
VUB, Bombay, India. Indian State Broadcasting Service, Irwin House, Sprotts Road, Ballard Estate, Bombay. Sun., 0700-0900 approximately.	9.790 megas.	30.63 m.	WOF, Lawrenceville, N. J. Address WNA, 9.170 megas.
9.570 megas. 31.33 m.			
W1XK, Mills (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.	9.840 megas.	30.47 m.	JYS, Kemikawa-Cho, Chiba-Ken, Japan. Experimental. 10 kW.
W8XK, Pittsburgh (Saxonburg), Pa. This frequency loaned to W1XK.	9.862 megas.	30.40 m.	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.
9.575 megas. 31.31 m.			
VUC, Calcutta, India. Refer to VUC, 6.112 megas.	9.870 megas.	30.38 m.	WON, Lawrenceville, N. J. 20 kW. Works London. Add.: WNA, 9.170.
9.580 megas. 31.30 m.			
GSC, Daventry, England. 20 kW. "C for Cooperation." For other details see GSB, 9.510 megas. Daily, 1800-2000; 2200-2300.	9.890 megas.	30.32 m.	LSN2, Buenos Aires (Hurlingham), Argentina. Address LQA, 9.600 megas.
VE9DR, Montreal, P. Q. Address VE9DN, 9.555 megas.			
VK3LR, Melbourne, Australia. Research Section, P. M. G. Dept., 61 Little Collins St., C1, Melbourne. Daily, 0400-0800.	9.895 megas.	30.30 m.	LSN, Buenos Aires (Hurlingham), Argentina. Works N. Y. Address LQA, 9.600 megas.
XGBD, Shanghai, China. 18.5 kW. (Existence doubtful).	9.920 megas.	30.22 m.	JDY, Darien. Works JVU, Nazaki.
9.585 megas. 31.28 m.			
VK2ME, Sydney (Pennant Hills), Australia. 12 kW. "The Voice of Australia." Laughing notes of the kookaburra, the Laughing Jackass, various times during program. Sign off: God Save the King. Address: Amalgamated Wireless (A/asia) Ltd., 47 York St., Sydney. Sundays, 0100-0300; 0500-1100.	9.930 megas.	30.19 m.	HJY, Bogota, Colombia. Phones CEC, OCI evenings.
..... Villejust, France. 120 kW. (Under construction).	9.950 megas.	30.13 m.	GCU, Rugby, England. 15 kW. Works N. Y. nights. Address GCB, 9.280 megas.
9.590 megas. 31.26 m.			
HP5J, Panama City, Panama. 1 kW. "La Voz de Panama." Manuel Diaz Dece, Apartado 867. Daily, 1145-1300; 1930-2200.	9.990 megas.	30.01 m.	KAZ, Manila, P. I. 40 kW. Works Dixon. Radio Corp. of the Philippines, Plaza Moraga.
W3XAU, Philadelphia (Newton Square), Pa. Relays CBS-WCAU. 750 watts. Address W3XAU, 6.060 megas. Daily, 1200-2000.			LSL, Buenos Aires, Argentina. Address LQA, 9.500 megas.
9.595 megas. 31.25 m.			
HLB, 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.	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.
9.600 megas. 31.23 m.			
CT1AA, Lisbon, Portugal. 2 kW. "Radio Colonial." Interval sig.: 3 cuckoos. Address: Senhor Abilio Nunes dos Santos, Jr., Av. Antonio d'Aguilar 144, Tues., Thurs., Sat., 1630-1900.	10.040 megas.	29.86 m.	HII, Santo Domingo, D. R.
LQA, Buenos Aires, Argentina. Compania Internacional de Radio, Defensa 143, B. A.	10.055 megas.	29.82 m.	SUV, Cairo (Abu Zabal), Egypt. 10 kW. Marconi Radio Telegraph Co., of Egypt, S. A., Box 795, Cairo.
9.609 megas. 31.20 m.			ZFB, Hamilton (St. George) Bermuda. 1.5 kW. Phones N. Y. days.
DGU, Nauen, Germany. Phones Egypt irreg. Address DGK, 6.675 megas.			



## SHORT WAVE STATIONS BY FREQUENCIES

10.070 mogs. 29.77 m. EHY, Madrid (Pozuelo del Rey). Spain. Phones YVR afternoons. Compania Telefonica Nacional de Espana, S. A., Margall 2, Madrid.	10.465 mogs. 28.64 m. WKC, Rocky Point, N. Y. 100 kw. Address WAD. 8.930 mogs.
10.080 mogs. 29.74 m. RIR, Tiflis, USSR. Works RIO, RNE mornings.	10.520 mogs. 28.50 m. VLK, Pennant Hills (Sydney), Australia. 16 kW. Address VK2ME, 9.585 mogs.
10.135 mogs. 29.58 m. OPM, Leopoldville, Belgian Congo. 12 kW. Works ORK. Address Leopoldville Radio Station.	10.530 mogs. 28.47 m. GBX, Rugby, England. 8 kW. Address GCB, 9.280 mogs.
10.160 mogs. 29.51 m. RIO, Baku, USSR. Works RIR, RNE mornings.	JIB, Taihoku (Chureki) Taiwan. Works JVG, JVL, JVV.
10.200 mogs. 29.34 m. PSH, Rio de Janeiro (Marapic), Brazil. 12 kW. Works Buenos Aires. Cia. Radiotelegraphica Brasileira, Caixa Postal 500.	10.550 mogs. 28.42 m. WOK, Lawrenceville, N. J. 20 kW. Address WNA. 9.170 mogs.
10.250 mogs. 29.25 m. LSK3, Buenos Aires (Hurlingham), Argentina. 5 kW.	10.600 mogs. 28.28 m. WQW, Rocky Point, N. Y. Works Berlin. Address WAD. 8.930 mogs.
10.260 mogs. 29.22 m. PMN, Bandoeng, N. E. I. 3 kW. Works Sydney. Address PLV, 9.415.	10.610 mogs. 28.25 m. WEA, Rocky Point, N. Y. 40 kW. Address WAD. 8.930 mogs.
10.285 mogs. 29.15 m. DIQ, Koenigsusterhausen, Germany. Address DGK, 6.675 mogs.	10.660 mogs. 28.13 m. JVN, Nazaki, Ibaraki-Ken, Japan. 20 kW. Works Europe and broadcasts to America. Sign off: Japanese National Anthem. Address, see JZG, 6.330 mogs. Mon., Thurs., 1600-1700; daily, 0000-0100.
10.290 mogs. 29.14 m. HPC, Panama City, Panama.	10.670 mogs. 28.10 m. CEC, La Granja, (Santiago) Chile. 4 kW. Compania Internacional de Radio S. A. (Chile), Casilla 16-D, Santiago. Broadcasting irregularly.
10.330 mogs. 29.02 m. ORK, Brussels (Ruysselde), Belgium. 11 kW. Works OPM irregularly; broadcasts daily. Ann.: Radio I.N.R. Sign off: La Brabaconne. Address: Regie des Telegraphes et des Telephones, Direction des Radicommunications, Bruxelles.	10.675 mogs. 28.09 m. WNB, Lawrenceville, N. J. 500 watts. Phones Bermuda. Address, WNA, 9.170 mogs.
10.335 mogs. 29.31 m. ZFD, St. George, Bermuda. 1.5 kW. Address reports on special transmissions to Town Clerk, St. George.	10.740 mogs. 27.92 m. JVM, Nazaki, Ibaraki-Ken, Japan. 20 kW. Other details identical JVN, 10.660.
10.350 mogs. 28.97 m. LSX, Buenos Aires (Monte Grande), Argentina. 20 kW. Transradio Internacional, Compania Radiotelegrafica Argentina S. A. San Martin 329.	10.770 mogs. 27.84 m. GBP, Rugby, England. 15 kW. Address GCB, 9.280 mogs.
10.370 mogs. 28.91 m. WCG (W2XBJ), Tuckerton, N. J.	10.840 mogs. 27.66 m. KWV (W6XN), Dixon, Calif. 20 kW. Address: Transpacific Communication Co., Ltd., 140 New Montgomery St., San Francisco, Calif.
10.375 mogs. 28.89 m. JVO, Nazaki, Japan. 10 kW. Works JZA, JZB, JZC, Harbin. Address JZG, 6.330 mogs.	10.960 mogs. 27.36 m. JZB, Shinkio (Kanjoshi) Manchukuo. 20 kW. Works JVI, JVO, JVV. Add: Manchukuo Telephone & Telegraph Co., Ltd., Shinkio.
10.400 mogs. 28.83 m. KEZ, Bolinas, Calif. 40 kW. RCA Communications, Inc., Pacific Division, 28 Geary St., San Francisco, Calif.	10.990 mogs. 27.28 m. ZLT, Wellington, N. Z. Works VLZ. Supt. Posts and Telegraphs.
10.410 mogs. 28.80 m. KES, Bolinas, Calif. 40 kW. Address KEZ, 10.400 mogs.	11.000 mogs. 27.26 m. PLP, Bandoeng, Java, N. E. I. 3 kW.
10.420 mogs. 28.77 m. XGW, Shanghai, China. 20 kW. Address XGO, 7.575 mogs.	11.140 mogs. 26.91 m. XGB, Shanghai China. 15 kW. (Existence doubtful)
10.430 mogs. 28.75 m. YBG, Medan, Sumatra, N. E. I. 3 kW. Works Bandoeng. Director of Govt. Radio Service, Telegraaf en Telefoondienst, Serdangweg 2, Medan. Daily, 0430-0530; 2030-2300	11.370 mogs. 26.38 m. CWG, Cerrito (Montevideo), Uruguay. 1.5 kW.
	11.495 mogs. 26.08 m. VIZ3, Rockbank (Melbourne), Australia. Tests with Canada. Address VK3KE, 9.503 mogs.
	11.660 mogs. 25.71 m. JVL, Nazaki, Japan. 10 kW. Works JIA, JIB, JIC Taiwan. Address JZG, 6.330 mogs.

## SHORT WAVE STATIONS BY FREQUENCIES

11.670 megs.	25.69 m.	kW. Address, see 11.720 megs. Daily, 1115-1415; 1500-1800.
<b>PPQ</b> , Rio de Janeiro (Sepetiba), Brazil. 5 kW. Address, see PSH, 10.220 megs.		
11.680 megs.	25.67 m.	11.940 megs.
<b>KIO</b> , Kahuku, Oahu, Hawaii. Works Bolinas. Kahuku, Oahu, T. H. Works GMBJ.		25.11 m.
		<b>FTA</b> , Ste. Assise, France. Works Saigon. Societe Francaise Radio-Electrique, 79 Blvd. Haussmann, Paris VIII.
11.720 megs.	25.58 m.	11.950 megs.
<b>CJRX</b> , Winnipeg, Man. (Middlechurch). James Richardson & Sons, Royal Alexandra Hotel. Daily, 2000-2400.		25.08 m.
		<b>KKQ</b> , Bolinas, Calif. Address KEZ, 10.400 megs.
11.725 megs.	25.57 m.	11.990 megs.
<b>HJ4BA</b> , 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.		25.00 m.
		<b>FZS2</b> , Saigon, French Indo-China. 15 kW. Phones Paris. Cie. Generale de Telegraphie Sans Fil, Boite Postale 238.
11.725 megs.	25.57 m.	12.000 megs.
<b>PHI</b> , Hilversum, Netherlands. 23.6 kW. (Winter frequency). Philips' Omroep Holland-Indie, Emmasingel 29, Eindhoven. Announces in Dutch, Malay, German, French, English, Spanish, Portuguese. Close: Dutch National Anthem.		24.99 m.
		<b>RNE</b> , 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.
11.750 megs.	25.52 m.	12.020 megs.
<b>GSD</b> , 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.		24.94 m.
		<b>JVK</b> , Nazaki, Japan. Works Shanghai. Address JZG, 6.330 megs.
11.770 megs.	25.47 m.	12.030 megs.
<b>DJD</b> , 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.		24.92 m.
		<b>HBO</b> , Prangins, (Geneva) Switzerland. 20 kW. "Radio Nations." Address: see HBP, 7.797 megs.
11.790 megs.	25.43 m.	12.035 megs.
<b>DJO</b> , Zeesen, Germany. Address DJC, 6.020 megs. <b>W1XAL</b> , Boston, Mass. 5 kW.		24.91 m.
		<b>DJK</b> , Nauen, Germany. 7.2 kW. Address DGK, 6.675 megs.
11.800 megs.	25.37 m.	12.050 megs.
<b>CO9WR</b> , Sancti-Spiritus, Cuba. 150 watts. V. E. Weiss y O. Ramirez, Apartado 85.		24.88 m.
		<b>PDV</b> , Kootwijk, Netherlands. 60 kW. Address: PDK, 10.410 megs.
11.810 megs.	25.39 m.	12.150 megs.
<b>VE9GW</b> , Toronto (Bowmanville), Ont.		24.68 m.
		<b>GBS</b> , Rugby, England. 15 kW. Phones N. Y. Afternoons. Address: GCB, 9.280 megs.
11.811 megs.	25.38 m.	12.215 megs.
<b>IRE</b> , Rome, Italy. Address 12RO, 9.630 megs. Daily, 0815-0900; 0915-1015; 1200-1300; 1345-1430.		24.55 m.
		<b>TYA</b> , Paris, France. Phones Algeria. Address: FTA, 11.940 megs.
11.830 megs.	25.34 m.	12.225 megs.
<b>W2XE</b> , New York, N. Y. (Wayne, N. J.). Relays CBS, WABC. 10 kW. Address W2XE, 6.120 megs. Daily, 1500-1700.		24.53 m.
		<b>TFK</b> , Reykjavik, Iceland. 8.5 kW.
<b>W9XAA</b> , Chicago, Ill.		12.240 megs.
		24.49 m.
11.845 megs.	25.31 m.	<b>GBU</b> , Rugby, England. Phones N. Y. Address: GCB, 9.280 megs.
<b>Villejust</b> , France. 120 kW. Under construction.		12.250 megs.
		24.48 m.
11.860 megs.	25.28 m.	<b>TYB</b> , Pontoise, France. Works JVH and Ships.
<b>GSE</b> , 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.		12.260 megs.
		24.46 m.
11.870 megs.	25.25 m.	<b>FTN</b> , Ste. Assise, France. Address: FTA, 11.940 megs.
<b>W8XK</b> , Pittsburgh (Saxonburg), Pa. 40 kW. Relays NBC-KDKA. Westinghouse Electric & Manufacturing Co., Grant Bldg., Pittsburgh, Pa. Daily, 1700-2100.		12.270 megs.
		24.52 m.
11.880 megs.	25.24 m.	<b>JVJ</b> , Nazaki, Japan. Works Hongkong. Address JZG, 6.330 megs.
<b>"Radio Coloniale,"</b> Pontoise, France. 15		20 kW.
		<b>RKK</b> , Moscow, USSR. 20 kW.
		12.325 megs.
		24.33 m.
		<b>DAF</b> , Norden, Germany. 5 kW. Phones ships, mornings. For address see DAF, 8.464 megs.
		12.500 megs.
		23.99 m.
		<b>RKF</b> , Moscow, USSR. 20 kW.
		<b>ZSV</b> , Walvis Bay, Union of South Africa. 1 kW.
		12.745 megs.
		23.60 m.
		<b>DAF</b> , Norden, Germany. 5 kW. Works ships. Address DAF, 8.464 megs.
		12.780 megs.
		23.46 m.
		<b>GBC</b> , Rugby, England. 5 kW. Works ships. Address GCB, 9.280 megs.

## SHORT WAVE STATIONS BY FREQUENCIES

12.795 mags.	23.45 m.		
IAC, Coltano, Italy. 14 kW. Works ships. Address IAC, 4.355 mags.		13.337 mags.	22.48 m. Venezuela. Phones Hialeah days.
12.830 mags.	23.36 m.		
CNR, Rabat, Morocco. Works Paris. Address. CNR, 8.035 mags.		13.390 mags.	22.39 m. Address WNA, 9.170 mags.
HJA3, Barranquilla, Colombia.			
12.840 mags.	23.35 m.		
WOO, Ocean Gate, N. J. 20 kW. Works ships. Address WNA, 9.170 mags.		13.395 mags.	22.39 m. FNSM, S. S. Paris. FTNQ, S. S. Ile de France.
WOY, Lawrenceville, N. J. 20 kW. Address WNA, 9.170 mags.			
12.930 mags.	23.18 m.		
WAW, Hialeah, Fla.		13.415 mags.	22.35 m. GCJ, Rugby, England. Works JVH, Nazaki. Address GCB 9.280 mags., 0300-0800. TIEP, San Jose, Costa Rica. "La Voz del Tropico". Sr. Eduardo Pinto Hernandez, Apartado 257. Sunday at 1300.
12.955 mags.	23.14 m.		
GMBJ, S. S. Empress of Britain. Works WOO, IAC, DAF, GBC, CZA, etc.		13.435 mags.	22.31 m. WEL, Rocky Point, N. Y. Phones London. Address WAD 8.930 mags.
13.020 mags.	23.03 m.		
JZE, Nazaki, Japan. 10 kW. Works ships. Address, JZG, 6.330 mags.		13.500 mags.	22.21 m. GBB, Rugby, England. Phones Canada and Egypt days. Address: GCB, 9.280 mags.
13.040 mags.	22.99 m.		
SHIPS. For address of these ships refer to 4413, 4415 and 4430 mags. All these ships work with WOO, and DAF.		13.560 mags.	22.11 m. JVI, Nazaki, Japan. 10 kW. Works JWA, JZB, JZC Harbin. Address: Kokusai-Denwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.
DDBR, S. S. Berlin.			
DDCP, S. S. Cap Polonio.			
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.			
13.045 mags.	22.98 m.		
VPD, Suva, Fiji Islands. "Radio Suva." Amalgamated Wireless, (A/sia) Ltd., Suva, Fiji. Daily exc. Sun., 0030-0130.			
13.050 mags.	22.97 m.		
These ships work with IAC and WOO. All owned by the Italian Line, 1 State St., N. Y. C.			
IBEJ, S. S. Conte Rosso.			
IBGI, S. S. Conte Verde.			
IBLI, S. S. Conte di Savoia.			
ICEJ, S. S. Rex.			
13.140 mags.	22.82 m.		
CWH, Montevideo (Cerrito), Uruguay. 1.5 kW.			
13.190 mags.	22.73 m.		
FNSK, S. S. Normandie. Works Paris afternoons. Address FNSK, 8.810 mags.			
13.200 mags.	22.71 m.		
CFU, Rossland, B. C. Consolidated Mining & Smelting Co.			
13.210 mags.	22.70 m.		
FNSK, S. S. Normandie. Works WOO, afternoons. Address FNSK, 8.810 mags.			
13.320 mags.	22.51 m.		
GBZW, S. S. Berengaria.			
GDJL, S. S. Homeric.			
GEVW, S. S. Majestic.			
GLRZ, S. S. Aquitania.			
GLSQ, S. S. Olympic.			
GMJQ, S. S. Belgenland.			
		14.000 to 14.400 mags.	20.82 to 21.42 meters. AMATEURS. Phones work between 14.150 and 14.250 mags.

## SHORT WAVE STATIONS BY FREQUENCIES

14.000 mags. 21.42 m.	14.935 mags. 20.07 m.
HJSABE, 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 Neuengasse, 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-Vatican, 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, Zeeson, 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. 19.68 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.
14.690 mags. 20.41 m.	W1XAL, Boston, Mass. 5 kW.
PSF, Rio de Janeiro, Brazil. Phones Madrid and Buenos Aires. Companhia Radio Internacional do Brasil, Caixa Postal 709.	15.260 mags. 19.65 m.
14.800 mags. 20.26 m.	GSJ, Daventry, England. "I for Island." For other details see GSF, 15.140 mags.
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 JIA, 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. W2XE, New York, N. Y. (Wayne, N. J.). 10 kW. Relays WABC-CBS. For address see 6.120 mags. Daily 1100-1300.	15.760 mags. 19.02 m. JYT, Kemikawa-Che, Chiba-Ken, Japan. 5 kW.
15.280 mags. 19.62 m. DJQ, Zeesen, Germany.	15.860 mags. 18.90 m. CEC, La Granja (Santiago), Chile. 800 watts. Phones Peru, afternoons. Address CEC, 10,670 mags. JVD, Nazaki, Japan. Works Shanghai. Address JVI, 13,560 mags.
15.295 mags. 19.60 m. Villejust, France. 120 kW. Under con- struction.	15.863 mags. 18.90 m. FTK, Ste. Assise, France. Piones Saigon. Address FTA, 11,940 mags.
15.300 mags. 19.60 m. CP7, La Paz, Bolivia. Compania Radio Boliviana, Casilla 637.	15.950 mags. 18.80 m. PLG, Bandoeng, Java. N. E. I.
OXY, Copenhagen, Denmark.	15.970 mags. 18.77 m. WKO, Rocky Point, N. Y. Address WPE, 13,840 mags.
15.330 mags. 19.56 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.	16.015 mags. 18.72 m. WQR, Rocky Point, N. Y. Address WPE, 13,840 mags.
15.340 mags. 19.55 m. DJR, Zeesen, Germany.	16.030 mags. 18.71 m. KKP, Kahuku, Oahu, Hawaii. Kahuku, Oahu, T. H. Phones GMBJ.
15.350 mags. 19.53 m. CT1AA, Lisbon, Portugal. 2 kW. Int. Sig.: 3 cuckoos. Address CT1AA, 9,600 mags.	16.050 mags. 18.68 m. JVC, Nazaki, Japan. Works Hongkong. Address JVI, 13,560 mags.
15.355 mags. 19.52 m. KWU (W6XN), Dixon, Calif. 20 kW. Address KWV, 10,840 mags.	16.150 mags. 18.56 m. GBX, Rugby, England. Phones Sydney. Address Engineer-in-chief, G.P.O. (Radio Section), Armour House, St. Martins le Grand, London EC1.
15.370 mags. 19.51 m. HAS3, Szekesferhervar, Hungary. 20 kW. "Justice for Hungary!" Announce in Hungarian, French, English by lady. Address, see HAT2, 7,220 mags.	16.200 mags. 18.51 m. FZR, Saigon, French Indo-China. Phones Paris. Address FZS2, 11,990 mags.
15.415 mags. 19.45 m. KWO (W6XN), Dixon, Calif. 20 kW. Address KWV 10,840 mags.	16.240 mags. 18.49 m. KTO, Manila, P. I. Phones Dixon. Radio Corp. of the Philippines, Plaza Moraga, Manila.
15.440 mags. 19.42 m. PRADO, Riobamba, Ecuador. "Estacion El Prado." Apartado 98. This freq. used in summer only, Sundays, 1700-1800.	16.270 mags. 18.48 m. WLK, Lawrenceville, N. J. Works London. Address WMF, 14,470 mags.
15.445 mags. 19.41 m. WKW, Rocky Point, N. Y. Address WPE, 13,840.	16.380 mags. 18.30 m. XGN, Shanghai, China. Address XGO, 7,575 mags.
15.454 mags. 19.40 m. Pontoise, France. (Proposed).	16.460 mags. 18.22 m. DHEY, S. S. Deutschland. Works WOO, DAF. Ad- dress, North German Lloyd, Pier 4, Foot of 58th St., Brooklyn, N. Y.
15.475 mags. 19.37 m. KKL, Bolinas, Calif. Address KEZ, 10,400 mags.	16.600 mags. 18.06 m. DOAI, S. S. Europa. Phones WOO, DAF. Address DHEY above.
15.510 mags. 19.33 m. JDX, Darien. Works JVU Nazaki.	16.765 mags. 17.88 m. DHTY, S. S. Resolute. Works WOO, DAF.
15.620 mags. 19.19 m. JVF, Nazaki, Japan. 20 kW. Works Dixon, nights. Address JVI, 13,560 mags.	16.910 mags. 17.73 m. JZD, Nazaki, Japan. 20 kW. Works ships. Address JVI, 13,560 mags.
15.660 mags. 19.15 m. JVE, Nazaki, Japan. 10 kW. Works Bandoeng nights. Address JVI, 13,560 mags.	17.080 mags. 17.55 m. GBC, Rugby, England. 5 kW. Works ships. Ad- dress GBX, 16,150 mags.
15.680 mags. 19.12 m. JZA, Shinkio (Kanjoshi) Manchukuo. 20 kW. Works JVI, JVO, JVU. Ad.: Manchukuo Tele- phone & Telegraph Co., Shinkio.	17.120 mags. 17.51 m. 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.
15.750 mags. 19.04 m. JIA, Taihoku (Chureki) Taiwan. Works JVG, JVL, JVU.	17.260 mags. 17.37 m. DAF, Norden, Germany. 5 kW. Works ships Ad- dress 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, Botand 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 1630, 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-Denwa 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 Bld. 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., 0600-0845; Sun., 0630-0845.		PCV, Kootwijk, Netherlands. Works Java, mornings. Radiolaboratory Neth. State Telegraphs, Parkstraat 29, S'Gravenhage.	
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.
WQJ, 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 985, Lima.	
17.920 megs.	16.73 m.	18.830 megs.	15.92 m.
WQF, Recky 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 megs.	15.89 m.	19.980 megs.	15.01 m.
WKM, Rocky Point, N. Y. 40 kW. Address: R.C.A., 66 Broad St., N. Y. City.		KAX, Manila, P. I. Radio Corp. of the Philippines. Plaza Moraga, Manila.	
18.880 megs.	15.88 m.	20.020 megs.	14.98 m.
WQH, Rocky Point, N. Y. Address WKM, 18.860 megs.		DHO, Nauen, Germany. 7.2 kW. Works S. America. Reichspost-zentralamt, Telegraphentechnisches Reichsamt, Schöneberger Strasse 11-15, Berlin-Tempelhof.	
18.890 megs.	15.87 m.	20.040 megs.	14.97 m.
ZSS, Capetown (Klipheuvcl), Union of South Africa. 5 kW. Works London. Overseas Communication Co., Kodak House, Shortmarket St., Capetown.		OPL, Leopoldville, Belgian Congo. 9 kW. Works ORG.	
18.900 megs.	15.86 m.	20.100 megs.	14.91 m.
WDS, Rocky Point, N. Y. Address WKM, 18.860 megs.		WQY, Rocky Point, N. Y. 40 kW. Address: WKM, 18.860 megs.	
18.910 megs.	15.86 m.	20.368 megs.	14.72 m.
JVA, Nazaki, Japan. 20 kW. Works Europe. Address JVB, 18.190.		GAA, Rugby, England. 15 kW. Address: GBX, 16.150 megs.	
18.920 megs.	15.84 m.	20.606 megs.	14.55 m.
WQE, Rocky Point, N. Y. Address WKM, 18.860 megs.		PMB, Bandoeng, Java, N. E. I. Works PCK. Address: PMC, 18.135 megs.	
18.940 megs.	15.83 m.	21.020 megs.	14.27 m.
WTT, Rocky Point, N. Y. Address WKM, 18.860 megs.		LSN, Buenos Aires (Hurlingham), Argentina. Works N. Y. Address: LSN, 14.489 megs.	
18.950 megs.	15.82 m.	21.060 megs.	14.24 m.
HBF, Prangins (Geneva), Switzerland. 20 kW. Address HBJ, 14.535 megs.		KWN (W6XN), Dixon, Calif. 20 kW. Address: KWW, 10.840 megs.	
18.958 megs.	15.82 m.	WKA, Lawrenceville, N. J. 20 kW. Address: WLA, 18.350 megs.	
LSR, Buenos Aires, Argentina. Works CEC, HJY, OCl.		21.070 megs.	14.23 m.
18.970 megs.	15.80 m.	PSA, Rio de Janeiro (Marapicu), Brazil. 10 kW. Works N. Y. Address: PSF, 14.690 megs.	
GAQ, Rugby, England. Works Capetown 0800. Address GBX, 16.150 megs.		21.128 megs.	14.19 m.
18.120 megs.	15.68 m.	LSM, Buenos Aires (Monte Grande), Argentina. Address: LSY3, 18.115 megs.	
LSM, Buenos Aires, Argentina. Works Europe.		21.410 megs.	14.00 m.
19.200 megs.	15.62 m.	WKK, Lawrenceville, N. J. Address: WLA, 18.250 megs.	
ORG, Brussels (Ruyssede), Belgium. 8 kW. Works Leopoldville. Address ORK, 10.330 megs.		21.460 megs.	13.97 m.
19.220 megs.	15.60 m.	W1XAL, Boston, Mass. 5 kW.	
WKF, Lawrenceville, N. J. 20 kW. Address WLA, 18.350 megs.		21.470 megs.	13.96 m.
19.270 megs.	15.57 m.	GSH, Daventry, England. "H for Home." Interval sig: Westminster Chimes and Big Ben. Sign off: God Save the King. Address: British Broadcasting Corp., Brdcsting. House, London W.1.	
PPU, Rio de Janeiro, Brazil. Works Paris. 13.5 kW. Address: Cia Radiotelegraphica Brasileira, Caixa Postal 500, Rio de Janeiro.		21.490 megs.	13.95 m.
19.345 megs.	15.50 m.	....., Villejust, France. 120 kW. Under construction.	
PMA, Bandoeng, Java, N. E. I. 40 kW. Address: PMC, 18.135 megs.		21.530 megs.	13.93 m.
FTM, Ste. Assise, France. Address: FTE, 18.330 megs.		GSJ, Daventry, England. "J for Justice." See GSH, 21.470 megs.	
19.520 megs.	15.36 m.	21.540 megs.	13.92 m.
IRW, Rome, Italy. Works Argentina. 20 kW. Address: Societe Italo Radio, Servizi Radioelectrici, Via Calabria No. 46-48, Roma 125.		W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Relays NBC-KDKA. Grant Building. 0700-0900.	
19.690 megs.	15.30 m.	22.290 megs.	13.45 m.
LSF, Buenos Aires (Monte Grande), Argentina. 7 kW. Address: LSY3, 18.115 megs.		GBU, Rugby, England. Works N. Y. Address: GBX, 16.150 megs.	
19.680 megs.	15.24 m.	26.100 megs.	11.49 m.
CEC, La Granja (Santiago), Chile. 4 kW. Compania Internacional de Radio S. A. (Chile), Casilla 16-D, Santiago.		GSK, Daventry, England. "K for King." See GSH, 21.470 megs.	
19.820 megs.	15.13 m.	29.820 megs.	10.05 m.
WKN, Lawrenceville, N. J. Address: WLA, 18.350.		IAF, Fiumicino, Italy. 5 kW.	
19.900 megs.	15.06 m.	30.604 megs.	9.80 m.
LSG, Buenos Aires (Monte Grande), Argentina. 7 kW. Address: LSY3, 18.115 megs.		IAG, Golfo Aranci, Sardinia. 5 kW.	

# SHORT WAVE STATIONS BY LOCATIONS

<p><b>ALASKA (K)</b></p> <p>Akutan</p> <p><b>KHW</b> 2,912</p> <p><b>KIOI</b> 2,632</p> <p>Cape Pole</p> <p><b>KIJB</b> 2,994</p> <p>Circle</p> <p><b>KIHK</b> 2,994</p> <p><b>KIKK</b> 3,190</p> <p>Cordova</p> <p><b>KDV</b> 2,538</p> <p>Deep Cove</p> <p><b>KHP</b> 1,622</p> <p><b>KIJV</b> 1,622</p> <p>Eagle</p> <p><b>KIIN</b> 2,994</p> <p><b>KIIN</b> 3,190</p> <p>Excursion Inlet</p> <p><b>KILY</b> 2,994</p> <p>Eyak River</p> <p><b>KIKN</b> 3,093</p> <p>Fort Yukon</p> <p><b>KHIL</b> 2,994</p> <p><b>KHIL</b> 3,190</p> <p>Hidden Inlet</p> <p><b>KIDE</b> 3,265</p> <p><b>KLD</b> 2,566</p> <p>Hot Springs</p> <p><b>KTIM</b> 2,994</p> <p><b>KIIM</b> 3,190</p> <p>Iron Creek</p> <p><b>KIOH</b> 2,632</p> <p>Juneau</p> <p><b>KMYA</b> 2,304</p> <p><b>KMYA</b> 4,610</p> <p><b>WXA</b> 8,050</p> <p>Kadlak Island</p> <p><b>KIJX</b> 2,632</p> <p>Kake</p> <p><b>KIBA</b> 3,093</p> <p><b>KLC</b> 2,512</p> <p>Ketchikan</p> <p><b>KBAl</b> 2,304</p> <p><b>KGM</b> 2,512</p> <p><b>KIAY</b> 3,893</p> <p><b>WXH</b> 2,604</p> <p><b>WXH</b> 6,662</p> <p>McGrath</p> <p><b>KIHO</b> 2,994</p> <p><b>KIHO</b> 3,190</p> <p>Nakeen</p> <p><b>KHV</b> 2,566</p> <p><b>KICE</b> 3,265</p> <p>Nellie Juan</p> <p><b>KGI</b> 2,632</p> <p><b>KIOD</b> 2,632</p> <p>Newport Walter</p> <p><b>KIJS</b> 1,622</p> <p>Pillar Bay</p> <p><b>KDY</b> 2,994</p> <p><b>KNBZ</b> 2,994</p> <p>Poorman</p> <p><b>KJEJ</b> 2,994</p> <p>Port Alexander</p> <p><b>KDH</b> 2,538</p> <p><b>KGXW</b> 1,606</p> <p>Port Althorp</p> <p><b>KIAW</b> 3,093</p> <p><b>KLB</b> 2,512</p> <p>Port Armstrong</p> <p><b>KGXU</b> 1,622</p> <p>Port Conclusion</p> <p><b>KIJI</b> 1,622</p> <p>Port Herbert</p> <p><b>KIJO</b> 1,622</p> <p>Port Hobron</p> <p><b>KHZ</b> 2,512</p> <p><b>KIMA</b> 2,632</p> <p>Port San Juan</p> <p><b>KIJR</b> 2,986</p>	<p><b>P. Wakefield</b></p> <p><b>KGX</b> 2,632</p> <p><b>KIOC</b> 2,632</p> <p>Red Bluff</p> <p><b>KIOG</b> 1,622</p> <p>Rose Inlet</p> <p><b>KIAP</b> 3,093</p> <p><b>KLE</b> 2,512</p> <p>Saldovia</p> <p><b>KIKY</b> 3,265</p> <p>Shearwater Bay</p> <p><b>KIJW</b> 2,632</p> <p>Tanana</p> <p><b>KIIJ</b> 2,994</p> <p><b>KIJI</b> 3,190</p> <p>Tin City</p> <p><b>KION</b> 2,616</p> <p>Todd</p> <p><b>KGQ</b> 2,986</p> <p><b>KIJU</b> 2,986</p> <p>Uganik</p> <p><b>KIJP</b> 2,986</p> <p>Union Bay</p> <p><b>KFF</b> 2,566</p> <p><b>KICG</b> 3,265</p> <p>View Cove</p> <p><b>KICI</b> 3,093</p> <p>Washington Bay</p> <p><b>KIJK</b> 1,622</p> <p>Waterfall</p> <p><b>KIBZ</b> 3,265</p> <p><b>KLA</b> 2,566</p> <p>Willow Creek</p> <p>Mines</p> <p><b>KIIP</b> 3,093</p> <p>Wrangell</p> <p><b>KDK</b> 2,538</p> <p><b>ARGENTINA (LOA-LVZ)</b></p> <p>Buenos Aires</p> <p><b>LQA</b> 9,600</p> <p><b>LSF</b> 19,600</p> <p><b>LSG</b> 19,900</p> <p><b>LSK3</b> 10,250</p> <p><b>LSL</b> 9,990</p> <p><b>LSM</b> 19,120</p> <p><b>LSM</b> 21,128</p> <p><b>LSN</b> 9,895</p> <p><b>LSN</b> 14,480</p> <p><b>LSN</b> 21,020</p> <p><b>LSN2</b> 9,890</p> <p><b>LSR</b> 18,958</p> <p><b>LSX</b> 10,350</p> <p><b>LSY3</b> 18,115</p> <p><b>AUSTRALIA (VHA-VMZ)</b></p> <p>Fiskville</p> <p><b>VIZ3</b> 11,495</p> <p>Melbourne</p> <p><b>VK3LR</b> 9,586</p> <p><b>VK3ME</b> 9,503</p> <p>Sydney</p> <p><b>VK2ME</b> 9,585</p> <p><b>VLJ</b> 9,750</p> <p><b>VLK</b> 8,095</p> <p><b>VLK</b> 10,520</p> <p><b>VLZ</b> 7,960</p> <p><b>VLZ</b> 7,980</p> <p><b>AUSTRIA (OAE-OEZ)</b></p> <p>Vienna</p> <p><b>OER2</b> 6,072</p>	<p><b>AZORES (CT2-)</b></p> <p>Ponta Delgada</p> <p><b>CT2AJ</b> 4,000</p> <p><b>BAHAMAS (ZF-)</b></p> <p>Cat Cay</p> <p><b>ZFO</b> 5,300</p> <p>Nassau</p> <p><b>ZFS</b> 4,512</p> <p><b>BELGIAN CONGO (OP-)</b></p> <p>Leopoldville</p> <p><b>OPL</b> 20,040</p> <p><b>OPM</b> 10,135</p> <p><b>BELGIUM (ONA-OTZ)</b></p> <p>Brussels</p> <p><b>ORG</b> 19,200</p> <p><b>ORK</b> 10,330</p> <p><b>BERMUDA (ZF-)</b></p> <p>Hamilton</p> <p><b>ZFA</b> 5,025</p> <p><b>ZFB</b> 10,055</p> <p>St. George</p> <p><b>ZFD</b> 10,335</p> <p><b>BOLIVIA (CPA-CPZ)</b></p> <p>La Paz</p> <p><b>CP5</b> 6,080</p> <p><b>CP6</b> 9,120</p> <p><b>CP7</b> 15,300</p> <p><b>BRAZIL (PPA-PYZ)</b></p> <p>Rio de Janeiro</p> <p><b>PPQ</b> 11,670</p> <p><b>PPU</b> 19,270</p> <p><b>PRF5</b> 9,505</p> <p><b>PSA</b> 14,935</p> <p><b>PSA</b> 21,070</p> <p><b>PSD</b> 15,070</p> <p><b>PSF</b> 14,690</p> <p><b>PSH</b> 10,220</p> <p><b>PSK</b> 8,180</p> <p><b>BRITISH GUIANA (VP3)</b></p> <p>Georgetown</p> <p><b>VP3MR</b> 7,080</p> <p><b>CANADA (CFA-CKZ; CYA-CZZ; VAA-VGZ; VXA-VYZ)</b></p> <p><b>ALBERTA</b></p> <p>Calgary</p> <p><b>CGE</b> 3,040</p> <p><b>CGE</b> 7,550</p> <p><b>CKS</b> 3,040</p> <p><b>CKS</b> 7,550</p>	<p><b>VE9CA</b> 6,030</p> <p><b>VE9CA</b> 11,860</p> <p>Edmonton</p> <p><b>CFQ</b> 3,040</p> <p><b>CFQ</b> 7,550</p> <p><b>BRITISH COLUMBIA</b></p> <p>Alert Bay</p> <p><b>VAF</b> 1,510</p> <p>Anyox</p> <p><b>CZQ</b> 5,405</p> <p>Bones Bay</p> <p><b>CFW</b> 2,290</p> <p>Campbell River</p> <p><b>CGT</b> 4,865</p> <p><b>CJD</b> 1,510</p> <p><b>CJD</b> 1,540</p> <p>Cape Lazo</p> <p><b>VAC</b> 1,510</p> <p>Ceepeecee</p> <p><b>CJE</b> 2,290</p> <p>Claydon Bay</p> <p><b>CZP</b> 4,505</p> <p>Homako</p> <p><b>VFJ</b> 2,290</p> <p>Humpback Bay</p> <p><b>CZL</b> 2,290</p> <p>Knight Inlet</p> <p><b>CJK</b> 1,510</p> <p>Margaret Bay</p> <p><b>CJX</b> 2,290</p> <p>Namu</p> <p><b>CFV</b> 2,290</p> <p>Ocean Falls</p> <p><b>CGO</b> 4,505</p> <p>Prince George</p> <p><b>CZO</b> 4,505</p> <p>Prince Rupert</p> <p><b>CGP</b> 3,268</p> <p><b>CGP</b> 5,485</p> <p><b>CZG</b> 2,712</p> <p><b>CZG</b> 1,416</p> <p><b>CZG</b> 6,425</p> <p>Resland</p> <p><b>CFU</b> 4,755</p> <p><b>CFU</b> 5,660</p> <p><b>CFU</b> 6,720</p> <p><b>CFU</b> 13,200</p> <p>Sage Croek</p> <p><b>VXX</b> 5,405</p> <p>Vancouver</p> <p><b>CGZ</b> 2,452</p> <p><b>VE9CS</b> 6,070</p> <p>Waterloo Mine</p> <p><b>CZV</b> 3,300</p> <p><b>CZV</b> 4,840</p> <p><b>MANITOBA</b></p> <p>Winnipeg</p> <p><b>CJRO</b> 6,150</p> <p><b>CJRX</b> 11,720</p> <p><b>CJU</b> 3,070</p> <p><b>CJU</b> 3,452</p> <p><b>VYW</b> 2,396</p> <p><b>NEW BRUNSWICK</b></p> <p>Fredericton</p> <p><b>VE9AS</b> 6,425</p> <p>St. John</p> <p><b>CJW</b> 2,416</p> <p><b>VE9BJ</b> 6,090</p> <p><b>NOVA SCOTIA</b></p> <p>Halifax</p> <p><b>VBQ</b> 2,350</p>	<p><b>VE9HX</b> 6,110</p> <p>Lunenburg</p> <p><b>VBY</b> 1,540</p> <p><b>VBY</b> 1,650</p> <p>Pictou</p> <p><b>CKB</b> 2,284</p> <p>Pictou Island</p> <p><b>PKU</b> 2,284</p> <p><b>ONTARIO</b></p> <p>Bowmanville</p> <p><b>CRCX</b> 6,090</p> <p><b>VE9GW</b> 11,810</p> <p><b>VE9GW</b> 24,380</p> <p>Kenora</p> <p><b>CFD</b> 1,620</p> <p><b>CFD</b> 5,660</p> <p>Leamington</p> <p><b>CFT</b> 2,284</p> <p>Pelee Island</p> <p><b>CFX</b> 2,284</p> <p>Red Lake</p> <p><b>CFJ</b> 1,620</p> <p><b>CFJ</b> 5,660</p> <p><b>PRINCE EDWARD ISLAND</b></p> <p>Borden</p> <p><b>CJM</b> 1,580</p> <p>Charlottetown</p> <p><b>VE9EH</b> 6,080</p> <p><b>QUEBEC</b></p> <p>Bellevue</p> <p><b>CZB</b> 1,620</p> <p>Crane Island</p> <p><b>CKO</b> 2,284</p> <p>Drummondville</p> <p><b>CFA2</b> 4,465</p> <p><b>CFA4</b> 10,520</p> <p><b>CGA</b> 18,180</p> <p><b>CGA2</b> 13,745</p> <p><b>CGA4</b> 9,332</p> <p><b>CGA6</b> 6,690</p> <p><b>CGA7</b> 6,880</p> <p><b>CGA9</b> 4,348</p> <p><b>CGD</b> 3,340</p> <p><b>CJA3</b> 17,710</p> <p><b>CJA6</b> 6,760</p> <p><b>CZA</b> 2,980</p> <p><b>CZA</b> 4,785</p> <p><b>CZA</b> 6,285</p> <p><b>CZA</b> 8,515</p> <p><b>CZA</b> 12,660</p> <p><b>VEDSN</b> 6,085</p> <p><b>VEDSN</b> 9,555</p> <p><b>VE9DN</b> 11,780</p> <p>High Falls</p> <p><b>VYZ</b> 2,212</p> <p>Manicouagan</p> <p><b>CFM</b> 1,620</p> <p>Montmagny</p> <p><b>CKP</b> 2,284</p> <p>Montreal</p> <p><b>CGM</b> 3,152</p> <p><b>VE9DR</b> 6,005</p> <p><b>VE9DR</b> 9,580</p> <p><b>VYR</b> 1,712</p> <p>Riviere du Chef</p> <p><b>CZY</b> 1,620</p> <p>St. Felecion</p> <p><b>CZZ</b> 1,620</p>	<p>Tabouret</p> <p><b>CFL</b> 1,620</p> <p>Verdun</p> <p><b>CJZ</b> 2,452</p> <p>Yamachiche</p> <p><b>CGY</b> 3,152</p> <p><b>SASKATCHEWAN</b></p> <p>Cub Lake</p> <p><b>CFC</b> 1,596</p> <p><b>CFC</b> 1,668</p> <p>Emma Lake</p> <p><b>CGV</b> 1,596</p> <p><b>CGV</b> 1,668</p> <p>Hudson Bay</p> <p>Junct.</p> <p><b>VXV</b> 5,540</p> <p>Isle-a-la-Crosee</p> <p><b>CZJ</b> 1,596</p> <p><b>CZJ</b> 1,668</p> <p>Lac la Ronge</p> <p><b>CGQ</b> 1,596</p> <p><b>CGQ</b> 1,668</p> <p>Prince Albert</p> <p><b>VYP</b> 1,596</p> <p><b>VYP</b> 1,668</p> <p>Regina</p> <p><b>VXU</b> 5,540</p> <p>Portable</p> <p><b>VXW</b> 5,540</p> <p><b>CANAL ZONE (W)</b></p> <p>Albrook Field</p> <p><b>WTR</b> 6,385</p> <p><b>CHILE (CAA-CEZ)</b></p> <p>Santiago</p> <p><b>CEC</b> 8,820</p> <p><b>CEC</b> 7,740</p> <p><b>CEC</b> 8,710</p> <p><b>CEC</b> 10,670</p> <p><b>CEC</b> 15,860</p> <p><b>CEC</b> 19,680</p> <p><b>CHINA (XGA-XUZ)</b></p> <p>Nanking</p> <p><b>XGOX</b> 6,000</p> <p><b>XGOX</b> 9,500</p> <p><b>XGOX</b> 11,900</p> <p><b>XGOX</b> 17,800</p> <p>Shanghai</p> <p><b>XGB</b> 11,140</p> <p><b>XGBD</b> 9,580</p> <p><b>XGK</b> 18,690</p> <p><b>XGL</b> 7,960</p> <p><b>XGN</b> 16,380</p> <p><b>XGO</b> 7,575</p> <p><b>XGW</b> 10,420</p> <p><b>COLOMBIA (HJA-HKZ)</b></p> <p>Barranquilla</p> <p><b>HJA3</b> 7,685</p> <p><b>HJA3</b> 8,790</p> <p><b>HJA3</b> 12,830</p> <p><b>HJ1AB</b> 6,447</p> <p><b>HJ1ABG</b> 6,042</p> <p>Bogota</p> <p><b>HJA2</b> 5,825</p> <p><b>HJB</b> 14,930</p>
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## SHORT WAVE STATIONS BY LOCATIONS

HJN 6.080	<b>DOMINICAN REPUBLIC (HIA-HIZ)</b>  San Pedro de Macorist HIH 6.800 Santiago de los Caballeros HI-1-A 6.240 Santo Domingo HII 10.040 HIL 6.518 HIX 5.980 HIZ 6.340 HI4D 6.500	FZS 18.342	HAT3 8.565	<b>KENYA (VQ7-)</b>  Nairobi VQ7LO 6.600  MACAU  Macau CQN 6.073  MADAGASCAR (F)  Tananarive ..... 5.996  MANCHUKUO (J)  Shinkio JZA 15.680 JZB 10.960 JZC 5.830  MEXICO (XAA-XFZ)  Guadalajara XEDQ 9.520 Mexico City XDA 14.525 XEBT 6.000 XECR 7.380 XECW 5.980  MOROCCO (CNA-CNZ)  Rabat CNR 8.035 CNR 12.820  NETHERLANDS (PAA-PIZ)  Hilversum PCJ 15.220 PHI 11.725 PHI 17.775  Kootwijk PCK 18.400 PCM 18.600 PCV 17.830 PDK 10.410 PDV 12.050  NETHERLAND EAST INDIES (PKA-POZ; YBA-YHZ)  Borneo Bandjermasin YDUS 1.850 YDV2 3.330  Celebes Macassar PNI 8.775 Menado YBZ 7.688  Java Balikpapan YCP 8.575 Bandoeng PLE 18.830 PLF 17.850 PLG 15.950 PLK 14.480 PLM 12.290 PLP 11.000 PLQ 10.670	PLV 9.415	
HJP 7.465		FZS2 11.990	HAT4 9.125		PMA 19.345	
HJY 9.930		<b>GERMANY (D)</b>  Nauen DFA 19.240 DFB 17.520 DFC 12.980 DFD 14.665 DFE 9.810 DFL 10.850 DGG 6.675 DGU 9.609 DHO 20.020 DJK 12.035  Norden DAF 4.320 DAF 8.464 DAF 12.325 DAF 17.260  Zeeseen DIA 10.285 DIJ 9.560 DJB 15.200 DJC 6.020 DJD 11.770 DJE 17.760 DJG 4.580 DJL 15.110 DJM 6.080 DJN 9.540 DJO 11.790 DJP 11.850 DJQ 15.280 DJR 15.340	<b>INDIA (VTA-VWZ)</b>  Bombay VUB 9.565  Calcutta VUC 6.112 VUC 9.575  Kirkee VWY 8.975 VWY 17.480 VWZ 8.690 VWZ 8.693 VWZ 8.700 VWZ 8.708  ITALY (I)  Coltano IAC 4.355 IAC 6.650 IAC 12.795  Fiuminicino IAF 5.415 IAF 29.820  Golfo Aranci IAG 30.604  Rome IRA 6.070 IRE 11.810 IRF 8.070 IRM 9.823 IRO 9.780 IRW 19.520 I2R0 5.550 I2R0 5.725 I2R0 6.085 I2R0 6.980 I2R0 9.630		PMB 20.606	
HJZ 18.444					HONGKONG (Z) HRM 13.810 HRM 14.500	PMC 18.135
HJ3ABD 7.390					HONGKONG (Z) HJV 14.640 HJV 13.560 HJV 12.270 HJV 12.020 HJV 11.660 HJV 10.740 HJV 10.660 HJV 10.375 HJV 7.510 HJV 7.470 HJV 7.390 HJV 6.990 HJV 6.750 HJV 5.790 HJV 5.730 HJV 16.910 HJV 13.020 HJV 8.500 HJV 8.250 HJV 6.330	PWN 10.260
HJ3ABF 6.200					HUNGARY (HAA-HAZ)  Budapest HAS3 15.370 HAT 5.400 HAT2 7.220	PMY 5.140
HJ3ABH 6.812					<b>HAWAII (K)</b>  Honolulu KGQP 1.712  Kahuku KEQ 6.733 KIO 11.680 KKH 7.520 KKP 16.030 KRO 5.845 ..... 5.845 ..... 7.520 ..... 11.680 ..... 16.030  HONDURAS (HRA-HRZ)  Tela HRM 13.810 HRM 14.500  HONGKONG (Z)  Hongkong ZBW 6.750  HUNGARY (HAA-HAZ)  Budapest HAS3 15.370 HAT 5.400 HAT2 7.220	YDA5 6.120
HKE 7.098						YDD2 1.630
Bucaramanga HJ2ABD 5.980						YDH3 3.490
Calli HJ5ABD 6.490						YDH4 3.310
HJ5ABE 14.000	YDH6 3.130					
Cartagena HJ1ABD 7.280	YDH8 1.960					
HJ1ABE 6.115	Batavia YDA2 2.385					
Cienaga HJ3ABH 6.300	YDD3 1.585					
Cucuta HJ2 5.400	YDG2 3.470					
HJ2ABC 5.975	YDG3 3.150					
Manizales HJ4ABB 7.200	YDG4 2.850					
HJ4ABL 6.100	YDG5 2.090					
Medellin HJ4ABA 11.720	YDG6 1.900					
HJ4ABE 5.900	YDG7 3.300					
Pereira HJ4ABC 6.230	Buitenzorg YDA3 1.640					
Santa Marta HJ1ABJ 6.006	YDH9 1.920					
Tunja HJ2ABA 6.170	Cheribon YDA6 2.870					
<b>COSTA RICA (TIA-TIZ)</b>  Cartago TIN 14.545 TIU 14.545 TIR 7.685  San Jose TIEP 6.710 TIEP 13.415 TIGPH 5.820 TIPG 6.410 TIRCC 6.550  CUBA (CLA-CMZ; COA-COZ)  Camaguey CO9JQ 8.665 Havana CMB 5.780 COCD 6.130 COCH 9.428 COCO 6.010 Sancti Spiritus CO9WR 11.800 Santiago CO9GC 6.150  DARIEN (J)  Darien JDX 15.510 JDY 9.920 JDZ 5.710  DENMARK (OUA-OZZ)  Copenhagen OKY 6.060 OKY 9.490 OKY 15.300	YDA7 2.870					
	YDA8 1.840					
	Djember YDQ2 3.390					
	Djocjacarta YDB3 1.660					
	YDE5 2.350					
	YDL4 3.410					
	YDL5 3.210					
	YDL6 2.750					
	Garoet YDH5 3.250					
	Kediri YDN2 1.940					
Madioen YDN3 2.790						
Magelang YDK4 3.270						
Malang YDB6 1.570						
YDQ3 3.350						
YDQ4 3.230						
YDQ5 2.950						
YDQ6 2.810						
Pekalongan YDA7 3.270						
YDJ2 2.890						
Semarang YDB2 2.450						
YDE3 2.910						
YDK2 3.190						
YDK3 2.910						
YDK5 2.710						
YDK6 1.860						
Soekaboemi YDA4 1.550						
YDI2 2.110						
Solo YDB5 1.595						
YDE2 4.810						
YDL2 4.810						
YDL3 3.450						
Sourabaya YDB 4.480						
YDB7 1.530						
YDE4 2.415						
YDQ2 3.430						
YDQ3 3.290						
YDQ4 3.270						
YDQ5 2.930						
YDQ6 2.780						
YDQ7 2.870						



## SHORT WAVE STATIONS BY LOCATIONS

Wilmette NMP 2.670 NMP 2.698 Wheeling WMEQ 6.615	<b>LOUISIANA</b> Baton Rouge WPEQ 1.570 New Orleans WPEK 2.430 Shreveport KGPY 1.574 KGZL 1.712 KNGP 2.430	E. Lansing WRDS 1.642 Flint WPFD 2.442 Fourteen Foot Sheals WWE 3.410 Grand Rapids WPEB 2.442 Grosse Pointe WRDR 2.414 Highland Park WMO 2.414 Huron Island WWAO 3.410 Jackson WPHP 2.466 Lansing WPDL 2.442 Manitou Island WVAJ 3.410 Marquette WWM 3.410 Muskegon WPFC 2.442 Passage Island WWAL 3.410 Poe Reef WRJ 3.410 Port Huron WPGB 2.466 Rock of Ages WWAM 3.410 Saginaw WPES 2.442 Sault Ste. Marie NOR 2.670 NOR 2.698 Selfridge Field VK1 6.425 Stannard Rock WWH 3.410	<b>NEVADA</b> Reno KGHM 2.474 <b>NEW HAMPSHIRE</b> Nashua WPHB 2.422 <b>NEW JERSEY</b> 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 WOA 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	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 WNFP 2.422 Oneonta ..... 2.414 Rochester WPDR 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 WDS 18.900 WEA 10.610 WEB 6.935 WEC 8.930 WEL 8.950 WEL 13.435 WEM 7.400 WES 9.448 WET 9.470 WEZ 6.928 WIR 4.276 WIR 4.540 WIY 13.870 WJN 7.370 WKC 10.465 WKL 8.940 WKM 18.860 WKO 15.970 WKP 6.950 WKU 14.830 WKW 15.445 WLL 17.900 WPE 13.840 WQB 17.940 WQC 17.860 WQE 18.920 WQF 17.920 WQG 15.040 WQH 18.880 WQI 17.880 WQL 14.815 WQN 5.263 WQN 5.505 WQN 5.825 WQO 6.725 WQP 13.908 WQR 16.015 WQS 13.915 WQU 13.855 WQV 14.800 WQW 10.600 WQY 20.100 WTT 18.940 Schenectady W2XAD 15.330 W2XAF 9.530	S. Schenectady WPGC 1.658 St. George W0X 2.590 Syracuse WPEA 2.382 Utica WPGJ 2.414 Yonkers WPFY 2.442 <b>NORTH CAROLINA</b> Asheville WPF5 2.458 WPF5 2.474 Charlotte WPDV 2.458 <b>OHIO</b> Akron WPDO 2.458 Cincinnati WKDU 1.706 W8XAL 6.060 Cleveland NMD 2.670 NMD 2.698 WRBH 2.458 Columbus WPDI 2.430 WPGQ 1.596 Dayton WPDM 2.430 Findlay WPGG 1.596 Lancaster WQFO 2.430 Lorain WMES 2.550 Massillon WPHC 1.596 Portsmouth WPGI 2.430 Steubenville WPHD 2.458 Suffield WMEP 2.930 WMEP 6.615 Toledo WRDQ 2.474 Wilmingon WPHK 1.596 Wright Field PE2 6.445 Youngstown WPDG 2.458 Zanesville WPHO 2.430 <b>OKLAHOMA</b> Duncan KNGK 2.450 Lawton KGHP 2.466 Muskegee KNGT 2.450 Oklahoma City KGPH 2.450 Tulsa KGPO 2.450 <b>OREGON</b> Hood River KIJY 2.728
<b>INDIANA</b> Columbla City ..... 1.634 Culver WPHS 1.634 Fort Wayne WPDZ 2.490 Indianapolis WMDZ 2.442 ..... 1.634 Jasper WPHU 1.634 Kokomo WPDT 2.490 Marion County WPHE 1.634 Muncie WPGP 2.442 Richmond WPDH 2.442 Seymour WQFE 1.634 South Bend WPGN 2.490	<b>MAINE</b> Portland WPFU 2.422 <b>MARYLAND</b> Baltimore WPFH 2.414 <b>MASSACHUSETTS</b> Arlington WPED 1.712 Boston WEY 1.630 WPGV 1.712 WIXAL 6.040 WIXAL 11.790 WIXAL 15.250 WIXAL 21.460 WIXH 2.110 Brookline WPEJ 1.712 Fairhaven WPFN 1.712 Fitchburg WPHA 2.466 Frammingham 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 <b>MICHIGAN</b> Bay City WPGA 2.466 Chebogan Range WVG 3.410 Detroit WCK 2.414 WKDT 1.630 WPDX 2.414 WNN 3.410 WWR 3.410	<b>MINNESOTA</b> Duluth KNFE 2.382 Minneapolis KGPB 2.430 St. Paul WPDS 2.430 <b>MISSOURI</b> Jefferson City KIUK 1.674 Kansas City KGPE 2.422 Napoleon WYBF 2.604 St. Louis KGPC 1.706 <b>MONTANA</b> Glacier Nat'l Park KNIA 2.604 <b>NEBRASKA</b> Lincoln KGZU 2.490 Norfolk KNGN 2.490 Omaha KGPI 2.466	<b>NEW YORK</b> Albany WPGH 2.414 Auburn WPDN 2.382 Binghamton WPLG 2.442	<b>KANSAS</b> Chanute KGZF 2.450 Coffeyville KGZP 2.450 Dodge City KNGH 2.474 Garden City KNFH 2.474 Hutchinson KGNH 2.450 Leavenworth KNFF 2.422 Manhattan W9XAK 2.050 Topeka KGZC 2.422 Wichita KGPZ 2.450 <b>KENTUCKY</b> Lexington WPET 1.706 Louisville WPDE 2.442	

## SHORT WAVE STATIONS BY LOCATIONS

**Klamath Falls**  
KGZH 2.442

**Portland**  
KGPP 2.442

**Salem**  
KGZR 2.442

### PENN- SYLVANIA

**Harrisburg**  
WSP 1.674

**New Castle**  
WPGT 2.482

**Oil City**  
WPHZ 2.482

**Philadelphia**  
WPP 2.474

**WWHJ** 3.410

**W3XAU** 6.060

**W3XAU** 9.590

**Pittsburgh**  
WPDJ 1.712

**W8XK** 6.140

**W8XK** 9.570

**W8XK** 11.878

**W8XK** 15.210

**W8XK** 17.780

**W8XK** 21.540

**Reading**  
WPE 2.442

**Swarthmore**  
WPFQ 2.474

### RHODE ISLAND

**Cranston**  
WPGK 2.466

**E. Providence**  
WPEI 1.712

**Pawtucket**  
WPFV 2.466

**Woonsocket**  
WPEM 2.466

### SOUTH DAKOTA

**Rapid City**  
KNGM 2.450

### TENNESSEE

**Johnson City**  
WPGZ 2.474

**Knoxville**  
WPF0 2.474

**Memphis**  
WPEC 2.466

### TEXAS

**Austin**  
KGHU 2.442

**Beaumont**  
KGPJ 1.712

**Brownsville**  
KGHT 2.382

**Brownwood**  
..... 2.458

**Cleburne**  
KNGE 1.712

**Corpus Christi**  
KGHV 2.382

**Dallas**  
KVP 1.712

**El Paso**  
KGZM 2.414

**Fort Worth**  
KGRP 1.712

**Galveston**  
KNGL 1.712

**NOY** 2.670

**Houston**  
KGBZ 1.712

**Lubbock**  
KGZW 2.458

**San Antonio**  
KGZE 2.482

**Waco**  
KGZQ 1.712

**Wichita Falls**  
KGZI 2.458

### UTAH

**Salt Lake City**  
KGPW 2.406

### VIRGINIA

**Bolling Field**  
IS3 5.015

**Cape Henry**  
NMN 2.670

**Langley Field**  
FG7 6.645

### WASHINGTON

**Aberdeen**  
KGZV 2.414

**Bear River Camp**  
KNFY 2.490

**Bellingham**  
KNFK 2.490

**S. S. Cadrew**  
WIFI 2.738

**Carbon**  
KGYF 3.387

**Centralia**  
KGHV 2.414

**Chinook Pass**  
KQHW 2.490

**Edmonds**  
KOW 2.522

**Ellensburg**  
KNFX 2.490

**Ephrata**  
..... 2.490

**Everett**  
KNFP 2.414

**Grays Harbor**  
NMW 2.670

**Hells Crossing Camp**  
KNFZ 2.490

**Longmire**  
KGYA 3.387

**KGYB** 3.387

**Mt. Vernon**  
KNFI 2.414

**Olympia**  
KNFG 2.490

**Paradise**  
KGYC 3.387

**Port Townsend**  
NOZ 2.670

### Satus Pass Camp

**KNGA** 2.490

**Seattle**  
KGHD 2.490

**KGPA** 2.414

**WVD** 2.604

**WVD** 5.995

**WVD** 6.618

**Shuksan Camp**  
KNFL 2.490

**Skykomish**  
KNFU 2.490

**Snoqualmie Pass**  
KGHE 2.490

**Spokane**  
KGHS 2.414

**KGHS** 2.458

**Sunrise**  
KGYD 3.387

**Tacoma**  
KGZN 2.414

**Vancouver**  
KNGC 2.490

**Walla Walla**  
KNGD 2.490

**Wenatchee**  
..... 2.490

**White River**  
WGYE 3.387

**Yakima**  
KNGB 2.490

**KNGU** 2.414

### WEST VIRGINIA

**Charleston**  
WPHI 2.490

**Clarksburg**  
WPF 2.490

**Fairmont**  
WPHJ 2.490

**Parkersburg**  
WPHQ 2.490

**WISCONSIN**

**Kenosha**  
WPEP 2.450

### Milwaukee WPKD 2.450

### URUGUAY (CVA-CXA)

**Montevideo**  
CWD 5.830

**CWE** 6.610

**CWF** 8.455

**CWG** 11.370

**CWH** 13.140

### VATICAN STATE (HVA-HVZ)

**Vatican City**  
HVJ 5.970

**HVJ** 15.120

### VENEZUELA (YVA-YWZ)

**Barquisimeto**  
YV8RB 5.875

**Caracas**  
YV2RC 6.112

**YV3RC** 6.150

**YV4RC** 6.375

**YV3RC** 6.400

**Maracaibo**  
YV5RM 5.850

**Maracay**  
YVQ 6.672

**YVQ** 13.337

**YVR** 9.168

**YVR** 18.296

**Valencia**  
YV6RV 6.520

### VIRGIN ISLANDS (W)

**St. Thomas**  
WTDV 4.295

**St. Croix**  
WTDW 4.295

**St. John**  
WTDX 4.295

## 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 7.748	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 15.868	CFU 13.200	CGT 4.865	CKO 2.284	CSL 6.150	CZL 2.290	DDFF 8.830
CEC 19.880	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 3.848	CT1AA 15.350	CZP 4.505	DDFT 4.413
CEC 19.880	CFX 2.284	CGY 3.152	CKS 7.550	CT1CT 3.756	CZQ 4.505	DDFT 8.830
CEC 19.880	CGA 18.180	CGZ 2.452	CKU 2.284	CT1GO 6.132	CZV 3.300	DDFT 13.040
CFC 1.596	CGA2 13.745	CJA3 17.710	CMB 5.780	CT2AJ 4.000	CZV 4.840	DFB 17.520
CFC 1.668	CGA4 9.332	CJA6 6.760	CNR 8.830	CWD 5.830	CZV 1.620	DGK 6.675
CFC 1.668	CGA6 6.690	CJD 1.510	CNR 12.820	CWE 6.610	CZZ 1.620	DGU 9.609
CFD 1.620	CGA7 6.880	CJD 1.540	COCD 6.130	CWF 8.455	DAF 4.320	DHAO 4.413
CFD 5.660	CGA9 4.348	CJE 2.290	COCH 9.428	CWH 11.370	DAF 8.464	DHAO 8.830
CFJ 1.620	CGD 3.340	CJK 1.510	COCO 6.018	CWG 13.140	DAF 12.325	DHAO 13.040
CFJ 5.660	CGE 3.040	CJM 1.580	CO9GC 6.150	CZA 2.980	DAF 12.745	DHDL 4.413
CFJ 5.660	CGE 7.550	CJRO 6.150	CO9JQ 8.665	CZA 4.785	DAF 17.260	DHDL 8.830
CFM 1.620	CGM 3.152	CJRX 11.720	CO9WR 11.800	CZA 17.310	DDBR 4.413	DHDL 13.040
CFQ 3.040	CGM 3.340	CJU 3.070	CP5 6.080	CZB 1.620	DDBR 8.830	DHEY 4.413
CFQ 7.550	CGO 4.506	CJU 3.452	CP6 9.120	CZG 1.712	DDBR 13.040	DHEY 8.830

## SHORT WAVE STATIONS BY CALLS

DHEY	13.048	GCB	9.280	HJAABL	6.100	KBCA	3.385	KGYI	3.387	KIJZ	2.728	KNLP	3.410
DHEY	16.460	GCJ	13.415	HJSABD	6.498	KBCB	3.385	KGZA	2.414	KIKL	6.615	KNLQ	3.410
DHJZ	4.413	GCS	9.020	HJSABE	14.000	KBCD	3.445	KGZB	1.712	KIKN	3.093	KNLR	3.410
DHJZ	8.830	GCU	9.550	HKE	7.090	KBCE	3.445	KGZC	2.422	KIKY	3.265	KNLS	3.387
DHJZ	13.040	GCW	9.790	HPC	10.290	KBCF	3.445	KGZD	2.490	KILB	2.150	KNLX	3.387
DHO	20.020	GDB	4.320	HPF	14.545	KBCG	3.385	KGZE	2.482	KILU	1.622	KOU	2.566
DHRL	4.413	GDB	6.790	HPSB	6.030	KBCH	3.385	KGZF	2.450	KILU	2.150	KOW	2.522
DHRL	8.830	GDLJ	4.430	HPSJ	9.590	KBCJ	3.385	KGZG	2.466	KILY	2.994	KQJ	18.020
DHRL	13.040	GDLJ	13.320	HRM	13.810	KBK	6.718	KGZH	2.442	KIMA	2.632	KRO	5.845
DHTY	4.413	GDS	6.095	HRM	14.500	KDH	2.538	KGZI	2.458	KINT	2.726	KSW	1.658
DHTY	8.830	GDW	4.820	HSJ	8.028	KDK	2.538	KGZJ	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	21.060
DJB	15.280	GSB	9.510	HVJ	15.120	KEJ	9.010	KGZP	2.450	KIOI	2.632	KWO	15.415
DJC	6.028	GSC	9.580	IAC	4.355	KEL	6.860	KGZQ	1.712	KION	2.616	KWU	15.355
DJD	11.770	GSD	11.750	IAC	6.650	KEQ	6.733	KGZR	2.442	KIUU	1.674	KWV	10.840
DJE	17.760	GSE	11.860	IAC	12.795	KEZ	16.410	KGZT	1.674	KKH	7.520	KWX	7.610
DJG	4.580	GSF	15.140	IAC	17.770	KEZ	10.400	KGZU	2.490	KKL	15.475	KWY	7.565
DJK	12.035	SGG	17.790	IAF	5.415	KFF	2.566	KGZV	2.414	KKP	16.030	KZGF	5.765
DJM	6.080	GSH	21.470	IAF	29.820	KGHA	2.490	KGZW	2.458	KKQ	11.950	KZGF	9.170
DJN	9.540	GSI	15.260	IAG	30.604	KGHB	2.490	KGZX	2.414	KKW	13.780	KZGG	5.825
DJO	1.790	GSJ	21.530	ICEJ	13.050	KGHC	2.490	KGZY	1.712	KKZ	13.690	KZGO	8.940
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	HA5X	15.370	IRM	9.823	KGHK	1.674	KHZ	2.912	KLD	2.566	LCO	13.980
DOAH	13.040	HAT	5.400	IRO	9.789	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	5.015	KGHO	1.682	KIAY	3.893	KLH	2.566	LSF	19.600
DOAI	13.040	HAT4	9.125	I2RO	5.550	KGHP	2.466	KIBA	3.093	KMYA	2.304	L5G	19.900
DOAI	16.600	HBF	18.950	I2RO	5.725	KGHW	2.490	KIBZ	3.266	KMYA	4.610	LSK3	10.250
DOBX	4.413	HBH	18.450	I2RO	6.085	KGHR	2.490	KICE	3.265	KNB	2.994	L5L	9.990
DOBX	8.830	HBJ	14.535	I2RO	6.980	KGHS	2.458	KICG	3.265	KNED	1.686	L5M	19.120
DOBX	13.040	HBL	9.595	I2RO	9.630	KGHT	2.382	KICI	3.093	KNF	2.414	L5N	21.128
EAQ	9.862	HBP	7.797	JDX	15.510	KGHU	2.442	KIDE	3.265	KNFB	2.458	L5N	9.895
FG7	6.645	HBO	12.030	JBY	9.920	KGHV	2.382	KIED	1.622	KNFE	2.382	L5N	14.480
FNSK	4.390	H89AT	14.290	JDZ	5.710	KGHW	2.414	KIED	2.150	KNFF	2.422	L5N	21.020
FNSK	4.410	H89B	14.236	JIA	15.750	KGHX	2.438	KIEF	1.622	KNFG	2.490	L5N2	9.890
FNSK	8.810	H89H	7.005	JIB	10.530	KGHY	1.712	KIEF	2.150	KNFH	2.474	L5R	18.958
FNSK	8.830	H89J	14.400	JIC	5.890	KGHZ	2.406	KI9A	2.994	KNFI	2.414	L5X	10.350
FNSK	13.190	HCKJ	8.214	JVA	18.910	KGI	2.632	KIEL	1.622	KNFJ	1.712	LSY3	18.115
FNSK	13.218	HCK	8.515	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	4.690	JVD	15.860	KGOZ	2.466	KIFI	1.622	KNFM	2.490	NMD	2.698
FNSM	13.395	HC2J5B	4.283	JVE	15.660	KGPA	2.414	KIFI	2.150	KNFN	1.682	NMF	2.670
FTA	11.840	HC2J5B	7.770	JVF	15.620	KGPB	2.430	KIFT	2.150	KNFO	1.682	NMF	2.670
FTE	14.330	HC2RL	6.659	JVG	14.910	KGPC	1.706	KIGA	1.606	KNFP	2.414	NMP	2.670
FTK	15.863	HIC	6.800	JVH	14.610	KGPD	2.466	KIGA	2.102	KNFR	2.490	NMP	2.670
FTM	19.355	HI1	10.440	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	KI1H	2.190	KNFU	2.490	NMP	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	KI1J	3.190	KNFY	2.490	NMY	2.670
FTNQ	13.395	HI1A	6.240	JVM	10.740	KGPI	2.466	KI1K	2.994	KNFZ	2.490	NOB	2.670
FZR	16.200	HI1D	6.590	JVN	10.660	KGPJ	1.712	KI1K	3.190	KNGA	2.490	NOB	2.698
FZS	18.342	HJA2	5.825	JVO	10.375	KGPK	2.466	KI1L	2.994	KNGB	2.490	NOF	2.670
FZS2	11.998	HJA3	7.685	JVP	7.510	KGPL	1.712	KI1L	3.190	KNGC	2.490	NOG	2.670
GAA	20.368	HJA3	8.790	JVQ	7.470	KGPM	2.466	KI1M	2.994	KNGD	2.490	NOJ	2.670
GAQ	18.970	HJA3	12.830	JVR	7.390	KGPN	2.466	KI1M	3.190	KNGE	1.712	NOJ	2.670
GAS	18.304	HJA7	5.400	JVS	6.990	KGPO	2.450	KI1N	2.994	KNGF	2.422	NOR	2.670
GAU	18.628	HJB	14.930	JVT	6.750	KGPP	2.442	KI1N	3.190	KNGG	1.698	NOR	2.670
GAW	18.200	HJN	6.080	JVU	5.790	KGPP	1.712	KI1O	2.994	KNGH	2.474	NOR	2.698
GBA	13.954	HJP	7.465	JVV	5.730	KGPR	1.712	KI1O	3.190	KNGJ	2.490	NOR	2.670
GBB	13.500	HJY	9.930	JVK	13.600	KGPS	2.414	KI1P	3.093	KNGK	2.458	NOV	2.670
GBC	4.430	HJY	18.444	JVR	7.880	KGPW	2.406	KIQ	2.150	KNGL	1.712	NOY	2.670
GBC	4.975	HJ1ABB	6.447	JVS	9.840	KGPX	2.442	KI1W	2.726	KNGM	2.490	NOZ	2.670
GBC	8.680	HJ1ABD	7.280	JVT	15.768	KGPY	1.574	KI1X	2.726	KNGN	2.490	OAX4D	5.780
GBC	12.788	HJ1ABC	6.415	JZA	15.680	KGPZ	2.450	KI1Y	2.726	KNGO	2.490	OAX4G	6.230
GBC	17.088	HJ1ABG	6.042	JZB	10.960	KCQ	2.986	KI1Z	2.994	KNGP	2.439	O1	18.670
GBP	10.770	HJ1ABH	6.300	JZC	5.830	KCX	1.622	KI1J	1.622	KNGT	2.450	OER2	6.072
GBS	12.150	HJ1ABJ	6.066	JZE	16.910	KCXU	1.622	KI1K	1.622	KNGU	2.414	OP1	20.040
GBU	12.240	HJ2ABA	6.170	JZE	13.020	KCXW	1.606	KI1O	1.622	KNGQ	2.498	OPM	10.135
GBU	22.290	HJ2ABC	5.975	JZF	8.020	KGYA	3.387	KI1P	2.986	KNGR	2.490	ORG	19.200
GRW	14.440	HJ2ABD	5.980	JZG	6.338	KGYB	3.387	KI1R	2.986	KNIA	2.604	ORK	10.330
GBX	10.530	HJ3ABD	7.390	KAX	19.980	KGYC	3.387	KI1S	1.622	KNGK	3.410	OXY	6.060
GBX	16.150	HJ3ABF	2.000	KAY	14.980	KGYD	3.387	KI1U	2.986	KNKS	2.604	OXY	9.490
GBZW	4.413	HJ3ABA	6.012	KAZ	9.990	KGYE	3.387	KI1V	1.622	KNKK	2.604	OXY	15.300
GBZW	8.830	HJ4ABA	11.720	KBA	3.385	KGYF	3.387	KI1W	2.632	KNKK	2.604	PCJ	15.220
GBZW	13.320	HJ4ABC	6.230	KBA1	2.304	KGYG	3.387	KI1X	2.632	KNKY	2.604	PCM	18.400
GCA	9.710	HJ4ABE	5.900	KBA1M	3.445	KGYH	3.387	KI1Y	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	WIXAL	6.040	YDG4	2.850
PDK	10.410	VE9DN	6.005	WIEX	2.390	WPDE	2.442	WPGX	2.466	WIXAL	11.790	YDG5	2.090
PDK	12.050	VE9DN	6.555	WIFI	2.738	WPDF	2.442	WPGZ	2.474	WIXAL	15.250	YDG6	1.900
PD1	6.445	VE9DR	6.005	WIR	4.276	WPDG	2.458	WPHA	2.466	WIXAL	21.460	YDG7	3.500
PE2	6.445	VE9DR	6.580	WIR	4.540	WPDH	2.442	WPHB	2.422	WIXH	2.110	YDH3	3.490
PHI	11.725	VE9EH	6.080	WIY	13.870	WPDJ	2.430	WPHC	1.596	WIKX	9.570	YDH4	3.310
PHI	17.775	VE9GW	11.810	WJER	1.606	WPDJ	2.414	WPHD	2.458	WZXAD	15.330	YDH5	3.250
PLE	18.830	VE9HX	6.110	WJER	2.102	WPKD	2.450	WPHE	1.634	WZXAF	9.530	YDH6	3.130
PLF	17.850	VFJ	2.290	WJN	7.370	WPLD	2.442	WPHF	2.450	WZXBJ	4.550	YDH7	1.960
PLG	15.950	VIZ3	11.495	WKA	21.060	WPMI	2.430	WPHG	1.712	WZXBJ	10.370	YDH9	1.920
PLP	11.000	VK1	6.425	WKC	10.465	WPDN	2.382	WPHI	2.490	WZXBJ	13.900	YD12	1.110
PLV	9.415	VK2ME	9.585	WKDT	1.630	WPDN	2.458	WPHJ	2.490	WZXBJ	17.940	YD12	2.890
PMA	19.345	VK3LR	6.578	WKDU	1.706	WDDP	2.474	WPHK	1.596	WZXE	6.120	YD13	2.870
PMB	20.606	VK3LR	9.580	WKEM	1.622	WDRR	2.422	WPHM	2.442	WZXE	11.830	YD14	1.840
PMC	18.135	VK3ME	9.503	WKEM	2.150	WDDS	2.430	WPHN	2.466	WZXE	15.270	YD12	3.190
PMN	10.260	VLJ	9.750	WKF	4.253	WDDT	2.490	WPHO	2.430	W3XAL	6.100	YDK3	2.910
PMY	5.140	VLK	8.095	WKF	19.220	WDDU	1.712	WPHP	2.466	W3XAL	17.780	YDK4	3.270
PNI	8.775	VLK	10.520	WKL	9.460	WDDV	2.458	WPHQ	2.490	W3XAU	0.660	YDK5	2.710
PPQ	11.670	VLZ	7.960	WKK	21.410	WDDW	2.422	WPHS	1.634	W3XAU	9.590	YDK6	1.860
PPU	19.270	VLZ	7.980	WKL	8.340	WDDX	2.414	WPHU	1.634	W3XL	6.425	YDL2	4.810
PRADO	6.620	VPD	13.045	WKM	18.860	WDDY	2.414	WPHV	2.474	W3XL	17.318	YDL3	3.450
PRF5	9.585	VP3MR	7.080	WKN	19.820	WDDZ	2.490	WPHZ	2.482	W4XB	6.040	YDL4	3.410
PSA	21.063	VQJM	4.430	WKO	15.970	WPEA	2.466	WPSP	1.674	W7XK	3.493	YDL5	3.200
PSA	14.935	VQJM	8.830	WKP	6.950	WPEB	2.442	WQB	17.940	W8XA	1.682	YDL6	2.750
PSD	15.076	VQJP	4.430	WKU	14.830	WPEC	2.466	WQC	17.860	W8XAL	6.060	YDM2	3.320
PSF	14.590	VQJP	8.830	WKA	15.445	WPEE	1.712	WQE	18.922	W8XK	6.140	YDN2	1.940
PSH	10.220	VQ7LO	6.060	WLV	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
RAF	7.260	VUC	9.575	WLL	16.270	WPEH	1.712	WQFE	1.634	W8XK	17.780	YD04	3.180
RIF	7.625	VUY	9.875	WLK	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	6.890	WMDZ	2.442	WPEK	2.430	WQFL	1.712	W9XAA	11.330	YD07	2.070
RIR	10.080	VWZ	6.893	WMEF	1.606	WPEL	1.666	WQFO	2.430	W9XAA	17.780	YD08	1.880
RKF	4.875	VWZ	8.700	WMEF	2.920	WPEM	2.466	WQFQ	2.442	W9XAK	2.050	YD09	1.900
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	WPF	1.712	WQN	5.825	XECR	7.380	YDU3	5.260
RKI	15.090	VYR	1.712	WMEU	6.615	WPPC	2.442	WQN	6.725	XECW	5.980	YDU4	2.830
RKK	6.135	VYW	2.416	WMEV	2.930	WPPD	2.430	WQP	13.900	XGB	11.140	YDU5	1.850
RKK	12.270	VYZ	2.212	WMEV	6.615	WPEE	2.442	WQR	16.015	XGBD	9.580	YDV2	3.330
RNE	12.000	WAD	8.930	WMF	14.470	WPGF	2.442	WQS	13.915	XGL	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
RPT	7.225	WCG	10.370	WMN	14.590	WPFJ	2.414	WQV	14.800	XGN	16.380	YNA	14.480
RPK	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	XG0X	6.000	YV1G6	6.450
RSB	5.375	WDG	4.535	WNA	9.170	WPFN	1.712	WRBH	2.458	XG0X	9.500	VNQ	6.672
RSN	5.440	WDN	4.550	WNB	10.675	WPF0	2.474	WRDQ	2.474	XG0X	11.900	VVQ	13.337
RSZ	8.770	WDS	18.900	WNC	15.055	WPF1	2.490	WRDR	2.414	XG0X	17.800	VVR	9.168
RTA	6.440	WEA	10.610	WND	4.098	WPF2	2.474	WRDS	1.642	XGW	10.420	VVR	18.296
RTZ	7.275	WEB	6.935	WNEI	1.622	WPF5	2.458	WRJ	3.410	YBG	10.430	YV2RC	6.112
RV15	4.273	WEC	8.930	WNEI	2.150	WPF5	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
SR1	9.490	WEL	13.435	WNFP	2.422	WPFU	2.422	WTDV	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	YV5RM0	5.850
SUZ	13.810	WES	9.448	WOB	5.850	WPFV	2.466	WTR	6.385	YDA2	2.385	YV6VR	6.520
TFK	9.050	WET	9.470	WOF	9.750	WPFX	2.442	WTT	18.940	YDA3	1.640	YV10RSC5	7.200
TGF	14.545	WEY	1.630	WOG	4.253	WPFY	2.442	WVD	2.600	YDA4	1.550	ZBW	6.750
TG1X	9.450	WEZ	6.928	WOK	10.550	WPFZ	2.442	WVD	5.995	YDA5	6.120	ZEA	6.590
TG2X	5.940	WHER	2.102	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	WWAJ	3.410	YDA8	1.510	ZFB	10.055
TIGPH	5.820	WIED	2.390	WOO	8.560	WPGD	2.458	WWAL	3.410	YDB	4.470	ZFD	10.335
TIN	14.545	WIEG	2.150	WOO	12.840	WPGG	1.596	WWAM	3.410	YDB2	2.450	ZFO	5.300
TIU	14.545	WIEH	1.622	WOO	17.120	WPGH	2.414	WWAO	3.410	YDB3	1.660	ZFS	4.512
TIPG	6.550	WIEK	1.646	WOX	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	WWE	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	YDB2	1.630	ZLS	8.900
VAF	1.510	WIEO	2.020	WOY	12.840	WPGN	2.490	WWN	3.410	YDB3	1.585	ZLT	10.990
VBQ	2.350	WIEO	2.102	WOY	17.120	WPGO	2.490	WWR	3.410	YDB2	4.810	ZSS	19.890
VBY	1.540	WIEO	2.760	WOZ	3.423	WPGP	2.442	WVZ	3.410	YDB3	2.910	ZSV	8.220
VE9A	1.650	WIEW	1.606	WO9	6.385	WPGQ	1.596	WXA	8.050	YDE4	2.415	ZVJ	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	3.860

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*
WNAX 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	1 (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 ae 100	F	Toronto, Ont.	E-8:00-23:30
CKUA ak 500	.....	Edmonton, Alta.	M-13:00-15:15; 19-21
KMJJ 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-7:00-23:00-4:15pm-11-29-35
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* 12:15pm-11-15-35
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 (4)	Windsor, Ont.	E-.....
FON ae 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**

WGAO	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)** 491

-KFRC	ck	1000	C (5)	San Francisco, Calif.	P-6:00-24:00*
WDFA	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)** 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	ae	1000	Na (5)	Clearwater, Fla.	E-7:00-24:00*
-WHJB	ak	250	D	Greensburg, Pa.	E-7:00-17:00* 12:30 pm
WLZB	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)** 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*
CJGJ	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*
WGFB	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)** 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)** 461.3

-WSM	ae	50000	N	Nashville, Tenn.	C-6:30-24:00*
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**660 kilocycles (454.3)** 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)** 447.5

-WMAQ	ak	50000	N	Chicago, Ill.	C-7:00-1:00* 1:00-1:30
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**680 kilocycles (440.9)** 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*
VQWR	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)** 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) 537

RDN z 500 706 San Salvador, E. S. L—  
 —WLW ak 500000 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—6:45-00:30\*  
 XEN ak 1000 ..... Mexico City, D. F. C—9:00-12:00; 13:00-16:00; 17:00-24:00 *10-26 33*

720 kilocycles (416.4) 537

—WGN ak 50000 ..... Chicago, Ill. G—7:00-2:30

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) 7/7

CMCW dk 150 ..... Havana, Cuba E—  
 —KGU aj 2500 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. E—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 ae 10000 CSy Lincoln, Neb. C—6:00-24:00\*  
 —WBBM ae 50000 CSy Chicago, Ill. C—6:50-2:15\*

780 kilocycles (384.4) 4/1

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) 397

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

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

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)** 37

CMCF ak 250	815	Havana, Cuba	E--10:30-24*
CMHW ak 300	.....	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)** 36

-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)** 36

KOA ak 50000	N	Denver, Colo.	M--7:00-24:00*
WEEU 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)** 35

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)** 35

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)** 34

-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)** 34

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)** 34

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*
WGOC 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)** 33

KARK ak 250	(.5)	Little Rock, Ark.	C--6:00-22:00*
KFNE ak 500	2 (1)	Shenandoah, Iowa	C--5:30-8:00; 11:00-16:00; 18:00-21:00*
KEFY ak 1000	C	Spokane, Wash.	P--6:50-24:00*
KUSD ae 500	2	Vermillion, S. D.	C--Irregular
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) 94

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*
WIAX aeh 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) 97

CJAT ak 250	F	Trail, B. C.	P-7:00-24:00
-CRCM 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) 98

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) 99

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*
CFCL ak 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) 100

CMBC djf 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*
WCSH 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) 101

GRCS ak 100	F	Chicoutimi, 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) 102

CKY ak 15000	F	Winnipeg, Man.	C-8:00-14; 16-24*
CMGD 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*
WFCL	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	5000	B	Pittsburgh, Pa.	E-7:00-1:00*
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990 kilocycles (302.8)

WBZ	ak	5000	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	5000	R	Des Moines, Iowa	C-6:30-7:15; 12:45-17; 18:30-22:30
XEY	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
KOW	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	5000	R	Hartford, Conn.	E-7:00-24:00* 4-5, 13-7

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	5000	.....	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, ss*	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	5000	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	1N	Tulsa, Okla.	C—6:00-ss; 21-1:00
WAPI	ae	5000	1N	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*

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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) 1.9

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*
VE9EK	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) 1.7/4

CMKV	z	50	.....	Santiago, Cuba	E—.....
HIJ	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) 1.7/2

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. Catherines, 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*
KFBJ	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	.....	Bufington, 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*
WJBW	ak	100	1	New Orleans, La.	C—8:00-12:00; 17-20*
WKBO	ak	100	3 (.25)	Harrisburg, Pa.	E—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*
WMPG	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) / /

CJCS	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-9:00-12:05; 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	5	Richmond, Va.	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	3	White Plains, N. Y.	E-9-11:30; 15-17; 19-22
WGBB	ae	100	3	Freeport, N. Y.	E-Silent
WGNV	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*
WJBJ	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	I	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*
WPAK	ak	250	D	Thomasville, Ga.	E-7:00-88*
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.	C-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*

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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* 1:15pm-11-25-55 (10/4)
XEAI	z	100	.....	Mexico City, D. F.	C—.....
XEKL	z	500	.....	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	ak	1000	.....	Long Beach, Calif.	P—5:30-24:00*
WCAL	ah	1000	2 (2.5)	Northfield, Minn.	C—6:00-1:00*
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*
KPAC	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*
WFRB	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)

CMGU	z	150	.....	Havana, Cuba	E—12:00-18:00*
KFBF	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	.....	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
WFAB	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-7:00-22:30*
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	F	Yarmouth, N. S.	A-10-13; 17:30-19:30*
KCCV	ak	100	D	Quebec, Que.	E-8:00-14; 17-23*
KCRJ	ak	100	D	Jerome, Ariz.	M-7:30-9:30; 12-13; 16:30-18
KFPJ	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*
KGFV	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	z	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	ae	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*
WFBG	ae	100	3	Altoona, Pa.	E-10:30-16:30; 18:15-21:15
WFDF	mk	100	.....	Flint, Mich.	E-7:00-24:00*
WGII	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*
WRAW	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	N	York, Pa.	E-8:00-17:30*
WSMB ak	500	N	New Orleans, La.	C-7:00-1:00

X 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	I	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*
WGCA ak	500	C	Pensacola, Fla.	C-7:30-23:00*
WFEA ae	500	C (1)	Manchester, N. H.	E-9:00-23:00*
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	I (1)	Zarephath, N. J.	E-7:45-8:45; 17-18:30
WBNX ae	250	I	New York, N. Y.	E-6:00-7:30; 9-13

1360 kilocycles (220.4)

CMRH dk	100	...	Ciego de Avila, Cuba	E-8:00-9:30; 10-14; 17-22*
KCJR 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	I	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	I	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	(2.5)	Grand Forks, N. D.	C-8:00-20:00*
KFJZ ae	100	...	Fort Worth, Texas	C-7:00-23:00*
KFRG ak	100	D	Longview, Texas	C-6:00-88*
KGAR ae	100	(2.5)	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	(2.5)	San Angelo, Texas	C-8:00-21:30*
KICA ak	100	4	Clovis, N. M.	M-7:00-16:30; 19:30-21:30*
KIUP ak	100	P	Durango, Colo.	M-7:00-23:00*
KLUF z	100	(2.5)	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	(2.5)	Berkeley, Calif.	P-24 hours daily
KRKO ak	50	I	Everett, Wash.	P-7:30-12; 16:30-20*
KSLM ak	100	...	Salem, Ore.	P-9:00-23:00
KUJ ak	100	...	Walla Walla, Wash.	P-6:30-22:00*
KVL ak	100	I	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 (2.5)	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*
WHBO	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*
WIBM	ak	100	(.25)	Jackson, Mich.	E—7:00-00:45*
WJTL	ak	100	.....	Atlanta, Ga.	C—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*
WPAY	ak	100	.....	Hartsmouth, Ohio	E—8:00-11:30; 12-21*
WPFB	ak	100	.....	Hattiesburg, Miss.	C—7:00-21:00*
WQDM	ae	100	D	St. Albans, Vt.	E
WRAC	ak	100	(.25)	Williamsport, Pa.	E—7:30-20:00*
WRDQ	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
XEFZ	ak	100	.....	Mexico City, D. F.	C—18:00-1:00*
XEI	ak	125	.....	Merelia, Mch.	C—14:00-15:30; 21:00-22:00*
XEZZ	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.	C—8:00-23:00*
WKBI	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	(.25)	Amarillo, Texas	C—
WAAB	ak	500	C	Boston, Mass.	E—7:30-24:00*
WBCM	ae	500	.....	Bay City, Mich.	E—8:45-00:45*
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—.....
KBPS	aj	100	4	Portland, Ore.	P—Silent
KCMC	ak	100	.....	Texarkana, Ark.	C—7:00-14; 16-21*
KFIZ	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	ak	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—.....
KORF	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*
WLBF	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	.....	Guanajuato, 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*
WHCC	ae	500	C (1)	Rochester, N. Y.	E—8:00-24:00*
WHP	ae	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	ak	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	ak	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)**

GMOK	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.	P—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	(.25)	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*
KRRR	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*
WKBW	ak	100	(.25)	E. Dubuque, Ill.	C—7:00-21:00*
WKBV	ak	100	(.25)	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	I	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	ak	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
WWRL	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.

- |  |   |  |
|--|---|--|
| <b>Second Column Symbols</b>             | k Has no stamps.                            | networks   |
| a Verifies reception for return postage. | m Verifies for 5c.                          | P Has construction permit only.                            |
| b Verifies only occasionally.            | n Weather or time only.                     | R National "Red" network.                                  |
| c Does not verify.                       | z No information available.                 | S Sunday only.   |
| d Verification 10c; letter 25c.          |   | Sy Synchronized.   |
| e Sends Ekko stamp for 10c.              | <b>Fourth Column Symbols</b>                | X Has permit to increase power.                            |
| f Sends Ekko stamp for 5c.               | R National "Blue" network.                  | Y Has permit to change location.                           |
| g Sends Ekko stamp for postage.          | C Columbia network.                         | Z Has permit to change frequency.                          |
| h Sends own station stamp for 10c.       | D Day time only.                            | a-b-c. Small letters show stations using same transmitter. |
| l Sends own station stamp for 5c.        | Day Day time with occasional evening hours. | 1-2-3. Figures denote stations sharing time.               |
| j Sends own station stamp for postage.   | F Canadian Radio Brdestg. Commission.       | ..... No information                                       |
|  | N National "Red" and "Blue"                 |  |

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 KCMC 1420 100
<b>Birmingham</b>	<b>Anchorage</b>	<b>ARKANSAS</b>	<b>CALIFORNIA</b>
WAPI 1140 5000 N	KFPD 780 250	<b>Blytheville</b>	<b>Bakersfield</b>
WBRC 930 1000 C	<b>Juneau</b>	KLCN 1290 100	KERN 1370 100 C
WSGN 1310 100	KJNY 1310 100	<b>El Dorado</b>	W6XAI 1550 1000
<b>Decatur</b>	<b>Ketchikan</b>	KELD 1370 100	<b>Berkeley</b>
WMFO 1370 100	KGBU 900 500	<b>Fayetteville</b>	KRE 1370 100
<b>Dothan</b>	<b>ARIZONA</b>	KUOA 1260 1000	<b>Beverly Hills</b>
WAGF 1370 100	<b>Jerome</b>	<b>Fort Smith</b>	KMPC 710 500
<b>Gadsden</b>	KCRJ 1310 100	KFPW 1210 100	<b>Burbank</b>
WJBY 1210 100	<b>Lowell</b>	<b>Hot Springs</b>	KELW 780 500
<b>Mobile</b>	KSUN 1200 100	KTHS 1060 10000 N	<b>Chico</b>
WALA 1380 500 C	<b>Phoenix</b>	<b>Jonesboro</b>	KHSL 950 250
<b>Montgomery</b>	KOY 1390 500	KBTM 1200 100	<b>Del Monte</b>
WSFA 1410 500 C	KTAR 620 1000 N	<b>Little Rock</b>	KDON 1210 100
<b>Muscle Shoals</b>	<b>Prescott</b>	KARK 890 250	<b>El Centro</b>
WNRA 1420 100	KPJM 1500 100	KCHH 1200 100	KXO 1500 100
<b>Selma</b>	<b>Tucson</b>	KIRA 1390 1000 C	<b>Eureka</b>
WHBB 1500 100	KGAR 1370 100	<b>Pine Bluff</b>	KIEM 1210 100
	KVOA 1260 500	KOTN 1500 100	

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p><b>Fresno</b>  <b>KMJ</b> 580 1000 C  <b>Glendale</b>  <b>KIEV</b> 850 100  <b>Hollywood</b>  <b>KFWB</b> 950 1000  <b>KMTR</b> 570 1000  <b>KNX</b> 1050 50000  <b>Long Beach</b>  <b>KFOX</b> 1250 1000  <b>KGER</b> 1360 1000  <b>Los Angeles</b>  <b>KECA</b> 1430 1000 N  <b>KEHE</b> 780 500  <b>KFAC</b> 1300 1000  <b>KFI</b> 640 50000 N  <b>KFSG</b> 1120 500  <b>KFVD</b> 1000 250  <b>KGFJ</b> 1200 100  <b>KHJ</b> 900 1000 C  <b>KRKD</b> 1120 500  <b>Modesto</b>  <b>KTRB</b> 740 250  <b>Oakland</b>  <b>KLS</b> 1440 250  <b>KLX</b> 880 1000  <b>KROW</b> 930 1000  <b>Pasadena</b>  <b>KPPC</b> 1210 50  <b>Sacramento</b>  <b>KFBK</b> 1490 5000 C  <b>San Bernardino</b>  <b>KFXM</b> 1210 100  <b>San Diego</b>  <b>KFSD</b> 600 1000 N  <b>KGB</b> 1330 1000 C  <b>San Francisco</b>  <b>KFRG</b> 610 1000 C  <b>KGGC</b> 1420 100  <b>KGO</b> 790 7500 N  <b>KJBS</b> 1070 500  <b>KPO</b> 680 50000 N  <b>KSFO</b> 560 1000  <b>KYA</b> 1230 1000 N  <b>San Jose</b>  <b>KQW</b> 1010 1000  <b>Santa Ana</b>  <b>KREG</b> 1500 100  <b>Santa Barbara</b>  <b>KDB</b> 1500 100 C  <b>Stockton</b>  <b>KGDM</b> 1100 1000  <b>KWG</b> 1200 100 C</p>	<p><b>CONNECTICUT</b>  <b>Bridgeport</b>  <b>WICC</b> 600 500 C  <b>Hartford</b>  <b>WDRC</b> 1330 1000 C  <b>WTIC</b> 1040 50000 R  <b>New Britain</b>  <b>WNBC</b> 1380 250  <b>New Haven</b>  <b>WELI</b> 900 500  <b>Storrs</b>  <b>WCAC</b> 600 500  <b>Waterbury</b>  <b>WATR</b> 1190 100  <b>WIXBS</b> 1530 1000</p> <p><b>DELAWARE</b>  <b>Wilmington</b>  <b>WDEL</b> 1120 250  <b>WILM</b> 1420 100</p> <p><b>DISTRICT OF COLUMBIA</b>  <b>Washington</b>  <b>WJSV</b> 1460 10000 C  <b>WMAL</b> 630 250 B  <b>WOL</b> 1310 100  <b>WRC</b> 950 500 R</p> <p><b>FLORIDA</b>  <b>Clearwater</b>  <b>WFLA</b> 620 1000 N  <b>Daytona Beach</b>  <b>WMFJ</b> 1420 100  <b>Gainesville</b>  <b>WRUF</b> 830 5000  <b>Jacksonville</b>  <b>WJAX</b> 900 1000 N  <b>WMBR</b> 1370 100 C  <b>Miami</b>  <b>WIQD</b> 1300 1000 N  <b>WQAM</b> 560 1000 C  <b>Orlando</b>  <b>WDBO</b> 580 1000 C  <b>Pensacola</b>  <b>WCOA</b> 1340 500 C  <b>St. Petersburg</b>  <b>WSUN</b> 620 1000 N  <b>Tallahassee</b>  <b>WTAL</b> 1310 100  <b>Tampa</b>  <b>WDAE</b> 1220 1000 C</p> <p><b>GEORGIA</b>  <b>Albany</b>  <b>WGPC</b> 1420 100  <b>Athens</b>  <b>WTFI</b> 1450 500  <b>Atlanta</b>  <b>WGST</b> 890 500 C  <b>WJTL</b> 1370 100  <b>WSB</b> 740 50000 N  <b>Augusta</b>  <b>WRDW</b> 1500 100  <b>Columbus</b>  <b>WRBL</b> 1200 100  <b>Griffin</b>  <b>WKFE</b> 1500 100  <b>Macon</b>  <b>WMAZ</b> 1180 1000  <b>Rome</b>  <b>WRGA</b> 1500 100  <b>Savannah</b></p>	<p><b>WTOC</b> 1260 1000 C  <b>Thomasville</b>  <b>WPAX</b> 1210 250</p> <p><b>HAWAII</b>  <b>Hilo</b>  <b>KHBC</b> 1420 100  <b>Honolulu</b>  <b>KGMB</b> 1320 1000 C  <b>KGU</b> 750 2500 N</p> <p><b>IDAHO</b>  <b>Boise</b>  <b>KIDO</b> 1350 1000  <b>Idaho Falls</b>  <b>KID</b> 1320 250  <b>Lewiston</b>  <b>KRLC</b> 1420 100  <b>Nampa</b>  <b>KFXD</b> 1200 100  <b>Pocatello</b>  <b>KSEI</b> 900 250  <b>Twin Falls</b>  <b>KTFI</b> 1240 1000</p> <p><b>ILLINOIS</b>  <b>Bloomington</b>  <b>WJBC</b> 1200 100  <b>Carthage</b>  <b>WCAZ</b> 1070 100  <b>Chicago</b>  <b>WAAF</b> 920 500  <b>WBBM</b> 770 50000 C  <b>WCFL</b> 970 5000 B  <b>WCRW</b> 1210 100  <b>WEDC</b> 1210 100  <b>WENR</b> 870 50000 N  <b>WGES</b> 1360 500  <b>WGN</b> 720 50000  <b>WJLD</b> 1130 20000  <b>WLS</b> 870 50000 N  <b>WMAQ</b> 670 50000 N  <b>WMBI</b> 1080 5000  <b>WWSB</b> 1210 100  <b>Cicero</b>  <b>WEHS</b> 1420 100  <b>WHFC</b> 1420 100  <b>WKBI</b> 1420 100  <b>Decatur</b>  <b>WJBL</b> 1200 100  <b>East Dubuque</b>  <b>WKBB</b> 1500 100  <b>East St. Louis</b>  <b>WTMV</b> 1500 100  <b>Harrisburg</b>  <b>WEBQ</b> 1210 100  <b>Joliet</b>  <b>WGLS</b> 1310 100  <b>Peoria</b>  <b>WMBD</b> 1440 500 C  <b>Quincy</b>  <b>WTAD</b> 900 500  <b>Rockford</b>  <b>WROK</b> 1410 500  <b>Rock Island</b>  <b>WHBF</b> 1210 100  <b>Springfield</b>  <b>WCBS</b> 1420 100  <b>WTAX</b> 1210 100  <b>Tuscola</b>  <b>WDZ</b> 1070 100  <b>Urbana</b>  <b>WILL</b> 890 250  <b>Waukegan</b>  <b>WCBD</b> 1080 5000</p>	<p><b>INDIANA</b>  <b>Anderson</b>  <b>WHBU</b> 1210 100  <b>Elkhart</b>  <b>WTRC</b> 1310 50  <b>Evansville</b>  <b>WGBF</b> 630 500  <b>Fort Wayne</b>  <b>WGL</b> 1370 100 C  <b>WOWO</b> 1160 10000 C  <b>Gary</b>  <b>WIND</b> 560 1000  <b>Hammond</b>  <b>WWAE</b> 1200 100  <b>Indianapolis</b>  <b>WFBM</b> 1230 1000 C  <b>WIRE</b> 1400 500 R  <b>Muncie</b>  <b>WLBC</b> 1310 50  <b>Richmond</b>  <b>WKBY</b> 1500 100  <b>South Bend</b>  <b>WFAM</b> 1200 100  <b>WSBT</b> 1360 500 C  <b>Terre Haute</b>  <b>WBOW</b> 1310 100  <b>West Lafayette</b>  <b>WBAA</b> 890 1000</p> <p><b>IOWA</b>  <b>Ames</b>  <b>WOI</b> 640 5000  <b>Boone</b>  <b>KFGO</b> 1370 100  <b>Cedar Rapids</b>  <b>WMT</b> 600 1000 B  <b>Council Bluffs</b>  <b>KOIL</b> 1260 1000 B  <b>Davenport</b>  <b>WOC</b> 1370 100 C  <b>Decorah</b>  <b>KGCA</b> 1270 100  <b>KWLC</b> 1270 100  <b>Des Moines</b>  <b>KRNT</b> 1328 500 C  <b>KSO</b> 1430 500 B  <b>WHO</b> 1000 50000 R  <b>Iowa City</b>  <b>WSUI</b> 880 500  <b>Marshalltown</b>  <b>KFJB</b> 1200 100  <b>Shenandoah</b>  <b>KFNF</b> 890 500  <b>KMA</b> 930 1000  <b>Sioux City</b>  <b>KSCJ</b> 1330 1000 C</p> <p><b>KANSAS</b>  <b>Abilene</b>  <b>KFBI</b> 1050 5000  <b>Coffeyville</b>  <b>KGGF</b> 1010 1000  <b>Dodge City</b>  <b>KGNO</b> 1340 250  <b>Garden City</b>  <b>KIUL</b> 1210 100  <b>Hutchinson</b>  <b>KWBG</b> 1420 100  <b>Kansas City</b>  <b>WLBF</b> 1420 100  <b>Lawrence</b>  <b>KFKU</b> 1220 1000  <b>WREN</b> 1220 1000 B  <b>Manhattan</b>  <b>KSAC</b> 580 500</p>
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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p><b>Topeka</b>                      WIBW 580 1000 C                      Wichita                      KFH 1300 1000 C</p> <p><b>KENTUCKY</b></p> <p>Ashland                      WCMI 1310 100                      Covington                      WCKY 1490 5000 B                      Lexington                      WLAP 1420 100                      Louisville                      WAVE 940 1000 N                      WHAS 820 5000 C</p> <p>Paducah                      WPAD 1420 100</p> <p><b>LOUISIANA</b></p> <p>Alexandria                      KALB 1420 100                      Baton Rouge                      WJBO 1420 100                      Lafayette                      KVOL 1310 100                      Lake Charles                      KPLC 1500 100                      Monroe                      KMLB 1200 100                      New Orleans                      WBNO 1200 100                      WDSU 1250 1000                      WJBW 1200 100                      WSMB 1320 500 N                      WWL 850 10000 C</p> <p>Shreveport                      KRMD 1310 100                      KTBS 1450 1000 N                      KWEA 1210 100                      KWKH 1100 10000 C</p> <p><b>MAINE</b></p> <p>Augusta                      WRDO 1370 100</p> <p>Bangor                      WABI 1200 100                      WLBZ 620 500 C</p> <p>Portland                      WCSH 940 1000 R                      Presque Isle                      WAGM 1420 100</p> <p><b>MARYLAND</b></p> <p>Baltimore                      WBAL 1060 10000 B                      WCAO 600 500 C                      WCBM 1370 100                      WFBR 1270 500 R</p> <p>Cumberland                      WTBO 800 250</p> <p>Frederick                      WFMD 900 500</p> <p>Hagerstown                      WJEJ 1210 100</p> <p><b>MASSACHUSETTS</b></p> <p>Babson Park                      WBSO 920 500</p> <p>Boston                      WAAB 1410 500 C                      WBZ 990 5000 B                      WCOP 1120 500                      WEEI 590 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><b>MICHIGAN</b></p> <p>Battle Creek                      WELL 1420 100</p> <p>Bay City                      WBCM 1410 500</p> <p>Calumet                      WHDF 1370 100</p> <p>Detroit                      WJBK 1500 100                      WJR 750 50000 C                      WMBC 1420 100                      WJWJ 920 1000 R                      WXYZ 1240 1000 B</p> <p>East Lansing                      WKAR 1040 1000</p> <p>Flint                      WFDL 1310 100</p> <p>Grand Rapids                      WASH 1270 500 N                      WOOD 1270 500 N</p> <p>Ironwood                      WJMS 1420 100</p> <p>Jackson                      WIBM 1370 100</p> <p>Kalamazoo                      WKZO 590 1000</p> <p>Lansing                      WJIM 1210 100</p> <p>Lapeer                      WMPC 1200 100</p> <p>Marquette                      WBEO 1310 100</p> <p>Muskegon                      WKBZ 1500 100</p> <p>Royal Oak                      WEXL 1310 50</p> <p><b>MINNESOTA</b></p> <p>Fergus Falls                      KGDE 1200 100</p> <p>Hibbing                      WMFG 1210 100</p> <p>Minneapolis                      WCCO 810 50000 C                      WDGY 1180 1000                      WLB 1250 1000                      WTCN 1250 1000</p> <p>Moorhead                      KGFK 1500 100</p> <p>Northfield                      WCAL 1250 1000</p> <p>Rochester                      KRCC 1310 100</p> <p>St. Paul                      KSTP 1460 25000 N</p> <p><b>MISSISSIPPI</b></p> <p>Clarksdale                      WMPN 1210 100</p> <p>Hattiesburg                      WPFH 1370 100</p>	<p>Jackson                      WJDX 1270 1000 N</p> <p>Kosciusko                      WHEF 1500 100</p> <p>Laurel                      WAML 1310 100</p> <p>Meridian                      WCOC 880 500</p> <p>Mississippi City                      WGCN 1120 500</p> <p>Vicksburg                      WQBC 1360 1000</p> <p><b>MISSOURI</b></p> <p>Cape Girardeau                      KFVS 1210 100</p> <p>Columbia                      KFRL 630 500</p> <p>Jefferson City                      WOS 630 500</p> <p>Joplin                      WMBH 1420 100</p> <p>Kansas City                      KMBC 950 1000 C                      KWKC 1370 100                      WDAF 610 1000 R                      WHB 860 1000                      W9XBZ 1530 1000</p> <p>St. Joseph                      KFEO 680 2500</p> <p>St. Louis                      KFUD 550 500                      KMOX 1090 50000 C                      KSD 550 1000 R                      KWK 1350 1000 B                      WEW 760 1000                      WIL 1200 100                      Springfield                      KGBX 1230 500                      KWTO 560 5000</p> <p><b>MONTANA</b></p> <p>Billings                      KGHL 780 1000 N</p> <p>Butte                      KGR 1340 1000 N</p> <p>Great Falls                      KFBB 1280 1000</p> <p>Kallispell                      KGEZ 1310 100</p> <p>Missoula                      KGVO 1260 1000</p> <p>Wolf Point                      KGCK 1310 100</p> <p><b>NEBRASKA</b></p> <p>Clay Center                      KMMJ 740 1000</p> <p>Kearney                      KGFV 1310 100</p> <p>Lincoln                      KFAB 770 10000 C                      KFOR 1210 100 C</p> <p>Norfolk                      WJAC 1060 1000</p> <p>North Platte                      KGNE 1430 1000</p> <p>Omaha                      WAAW 660 500                      WOW 590 1000 R</p> <p>Scottsbluff                      KGKY 1500 100</p> <p>York                      KGBZ 930 1000</p>	<p><b>NEVADA</b></p> <p>Reno                      KOH 1380 500 C</p> <p><b>NEW HAMPSHIRE</b></p> <p>Laconia                      WLNH 1310 100</p> <p>Manchester                      WEA 1340 500 C</p> <p>Portsmouth                      WHIEB 740 250</p> <p><b>NEW JERSEY</b></p> <p>Asbury Park                      WCAP 1280 500</p> <p>Atlantic City                      WPG 1100 5000 C</p> <p>Camden                      WCAM 1280 500</p> <p>Jersey City                      WAAZ 940 500                      WHOM 1450 250</p> <p>Newark                      WHBI 1250 1000                      WNEW 1250 1000                      WOR 710 50000</p> <p>Red Bank                      WBRB 1210 100</p> <p>Trenton                      WTNJ 1280 500</p> <p>Zarephath                      WAWZ 1350 500</p> <p><b>NEW MEXICO</b></p> <p>Albuquerque                      KGGM 1230 250                      KOB 1180 10000</p> <p>Clovis                      KICA 1370 100</p> <p>Roswell                      KGFL 1370 100</p> <p>Santa Fe                      KIUF 1310 100</p> <p><b>NEW YORK</b></p> <p>Albany                      WABY 1370 100                      WOKO 1430 500 C</p> <p>Auburn                      WMBO 1310 100</p> <p>Binghamton                      WNBZ 1500 100</p> <p>Brooklyn                      WARD 1400 500                      WBBC 1400 500                      WBRR 1300 1000                      WCNW 1500 100                      WLTH 1400 500                      WMBQ 1500 100                      WYFV 1400 500</p> <p>Buffalo                      WBEN 900 1000 R                      WEBR 1310 100                      WGR 550 1000 C                      WKBW 1480 5000 C                      WWSV 1370 50                      WBNY 1370 100</p> <p>Canton                      WCAD 1220 500</p> <p>Chester                      WGNV 1210 100</p> <p>Elmira                      WESG 850 1000 C</p> <p>Freeport                      WGBB 1210 100</p>
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# NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<b>Jamestown</b>		
WOCL	1210	50
<b>Long Island City</b>		
W2XR	1550	1000
<b>New York</b>		
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

<b>Olean</b>		
WHDL	1420	100
<b>Plattsburg</b>		
WMFF	1310	100
<b>Rochester</b>		
WHAM	1150	50000 B
WHEC	1430	500 C
.....	1210	100
<b>Saranac Lake</b>		
WNBZ	1290	100
<b>Schenectady</b>		
WGY	790	50000 R
<b>Syracuse</b>		
WFBL	1360	1000 C
WSYR	570	250 B
<b>Troy</b>		
WHAZ	1300	500
<b>Utica</b>		
WIBX	1200	100 C
<b>White Plains</b>		
WFAS	1210	100
<b>Woodside</b>		
WWRL	1500	100

## NORTH CAROLINA

<b>Asheville</b>		
WWNC	570	1000 N
<b>Charlotte</b>		
WBT	1080	50000 C
WSOC	1210	100 N
<b>Durham</b>		
WDNC	1500	100 C
<b>Greensboro</b>		
WBIG	1440	500 C
<b>High Point</b>		
WMFR	1200	100
<b>Raleigh</b>		
WPTF	680	5000 N
<b>Rocky Mount</b>		
WEED	1420	100
<b>Wilmington</b>		
WMFD	1370	100
<b>Winston-Salem</b>		
WSJS	1310	100 C

## NORTH DAKOTA

<b>Bismarck</b>		
KFYR	550	1000 N
<b>Devils Lake</b>		
KDLR	1210	100
<b>Fargo</b>		
WDAY	940	1000 N
<b>Grand Forks</b>		
KFJM	1370	100
<b>Mandan</b>		
KGGU	1240	250
<b>Minot</b>		
KLPM	1240	250
<b>Valley City</b>		
.....	1500	100

## OHIO

<b>Akron</b>		
WADC	1320	1000 C
WJW	1210	100
<b>Canton</b>		
WHBS	1200	100
<b>Cincinnati</b>		
WCPO	1200	100
WKRC	550	1000 C
WLW	700	500000N
WSAI	1330	1000 R
<b>Cleveland</b>		
WGAR	1450	500 B
WHK	1390	1000 C
WJAY	610	500
WTAM	1070	50000 R
<b>Columbus</b>		
WAU	640	500
WBNS	1430	500 C
WCOL	1210	100
WOSU	570	750
<b>Dayton</b>		
WHIO	1260	1000 R
WSMK	1380	200 C
<b>Portsmouth</b>		
WPAY	1370	100
<b>Toledo</b>		
WSPD	1340	1000 C
<b>Youngstown</b>		
WKBN	570	500 C
<b>Zanesville</b>		
WALR	1210	100

## OKLAHOMA

<b>Ada</b>		
KADA	1210	100
<b>Ardmore</b>		
KVSO	1200	100
<b>Elk City</b>		
KASA	1210	100
<b>Enid</b>		
KCRC	1360	250
<b>Norman</b>		
WNAD	1010	1000
<b>Oklahoma City</b>		
KFXR	1310	100
KGGF	1370	100
KOMA	1480	5000 C
WKY	900	1000 N
<b>Ponca City</b>		
WBBZ	1200	100
<b>Shawnee</b>		
KGFF	1420	100
<b>Tulsa</b>		
KTUL	1400	500 C
KVOO	1140	25000 N

## OREGON

<b>Astoria</b>		
KAST	1370	100
<b>Corvallis</b>		
KOAC	550	1000
<b>Eugene</b>		
KORE	1420	100
<b>Klamath Falls</b>		
KFJJ	1210	100
<b>Marshfield</b>		
KOOS	1390	250
<b>Medford</b>		
KMED	1310	100
<b>Portland</b>		
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
<b>Roseburg</b>		
KRRR	1500	100
<b>Salem</b>		
KSLM	1370	100

## PENNSYLVANIA

<b>Allentown</b>		
WCBA	1440	500
WSAN	1440	500
<b>Altoona</b>		
WFBG	1310	100
<b>Erie</b>		
WLEU	1420	100
<b>Glenside</b>		
WIBG	970	100
<b>Greensburg</b>		
WHJB	620	250
<b>Grove City</b>		
WSAJ	1310	100
<b>Harrisburg</b>		
WHP	1430	500 C
WKBO	1200	100
<b>Hazleton</b>		
WAZL	1420	100
<b>Johnstown</b>		
WJAC	1310	100
<b>Lancaster</b>		
WGAL	1500	100
WKJC	1200	100

<b>Philadelphia</b>		
KYW	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
<b>Pittsburgh</b>		
KDKA	980	50000 B
KQV	1380	500
WCAE	1220	1000 R
WJAS	1290	1000 C
WWSW	1500	100
<b>Reading</b>		
WEEU	830	1000
WRAW	1310	100
<b>Scranton</b>		
WGBI	880	500
WQAN	880	250
<b>Sunbury</b>		
WKOK	1210	100
<b>Wilkes-Barre</b>		
WBAX	1210	100
WBRE	1310	100
<b>Williamsport</b>		
WRAC	1370	100
<b>York</b>		
WORK	1320	1000

## PUERTO RICO

<b>Ponce</b>		
WPRP	1420	100
<b>San Juan</b>		
WKAQ	1240	1000
WNEL	1290	500

## RHODE ISLAND

<b>Newport</b>		
WNRI	1200	100
<b>Providence</b>		
WEAN	780	500 C

WJAR	890	500 R
WPRO	630	250

## SOUTH CAROLINA

<b>Anderson</b>		
WAIM	1200	100
<b>Charleston</b>		
WCSC	1360	500
<b>Columbia</b>		
WIS	1010	500 N
<b>Greenville</b>		
WFBC	1300	1000
<b>Spartanburg</b>		
WSPA	920	1000
WWC	1420	1000

## SOUTH DAKOTA

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

## TENNESSEE

<b>Bristol</b>		
WOPI	1500	100
<b>Chattanooga</b>		
WDDO	1280	1000 C
<b>Jackson</b>		
WTJS	1310	100
<b>Knoxville</b>		
WNOX	560	1000 C
WROL	1310	100
<b>Memphis</b>		
WIBQ	1370	100
WMC	780	1000 N
WNBR	1430	500
WREC	600	1000 C
<b>Nashville</b>		
WLAC	1470	5000 C
WSM	650	50000 N
<b>Springfield</b>		
WSIX	1210	100

## TEXAS

<b>Amarillo</b>		
KGNC	1410	1000
<b>Austin</b>		
KNOW	1500	100
<b>Beaumont</b>		
KFDM	560	500
<b>Brady</b>		
KNEL	1500	100
<b>College Station</b>		
WTAW	1120	500
<b>Corpus Christi</b>		
KGFI	1500	100
<b>Dallas</b>		
KRLD	1040	10000 C
WFAA	800	50000 N
WRR	1280	500

## NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<b>Dublin</b>		
KFPL	1310	100
<b>El Paso</b>		
KTSM	1310	100
WDAH	1310	100
<b>Fort Worth</b>		
KFJZ	1370	100
KTAT	1240	1000
WBAP	800	50000 N
<b>Galveston</b>		
KLUF	1370	100
<b>Houston</b>		
KPRC	920	1000 N
KTRH	1290	1000 C
KXYZ	1440	1000
<b>Longview</b>		
KFRO	1370	100
<b>Lubbock</b>		
KFYO	1310	100
<b>Midland</b>		
KRLH	1420	100
<b>Palestine</b>		
KNET	1420	100
<b>Pecos</b>		
KIUN	1420	100
<b>Port Arthur</b>		
KPAC	1260	500
<b>San Angelo</b>		
KGKL	1370	100
<b>San Antonio</b>		
KABC	1420	100
KMAC	1370	100
KONO	1370	100
KTSA	550	1000 C
WOAI	1190	50000 N
<b>Tyler</b>		
KGKB	1500	100
<b>Waco</b>		
WACO	1420	100 C
<b>Westaco</b>		
KRGV	1260	500
<b>Wichita Falls</b>		
KGKO	570	250 C
<b>UTAH</b>		
<b>Ogden</b>		
KLO	1400	500
<b>Salt Lake City</b>		
KDYL	1290	1000 N
KSL	1130	50000 C
<b>VERMONT</b>		
<b>Burlington</b>		
WCAX	1200	100
<b>Rutland</b>		
WSYB	1500	100
<b>St. Albans</b>		
WQDM	1370	100
<b>Springfield</b>		
WNBX	1260	1000
<b>Waterbury</b>		
WDEV	550	500
<b>VIRGINIA</b>		
<b>Arlington</b>		
NAA	690	1000
<b>Charlottesville</b>		
WEHC	1420	100
<b>Danville</b>		
WBTM	1370	100
<b>Harrisonburg</b>		
WSVA	550	500
<b>Lynchburg</b>		
WLVA	1200	100
<b>Newport News</b>		
WGH	1310	100

<b>Norfolk</b>		
WTAR	780	500 N
<b>Petersburg</b>		
WPHR	880	500
<b>Richmond</b>		
WBBL	1210	100
WMBG	1210	100 C
WRVA	1110	5000 N
<b>Roanoke</b>		
WDBJ	930	1000 C
<b>WASHINGTON</b>		
<b>Aberdeen</b>		
KXRO	1310	100
<b>Bellingham</b>		
KVOS	1200	100
<b>Everett</b>		
KRKO	1370	50
<b>Olympia</b>		
KG Y	1210	100
<b>Pullman</b>		
KWSC	1220	1000
<b>Seattle</b>		
KIRO	710	500
KJR	970	5000 N
KOL	1270	1000 C
KOMO	920	1000 N
KRSC	1120	100
KTW	1220	1000
KVL	1370	100
KXA	760	250
<b>Spokane</b>		
KFIO	1120	100
KEPY	890	1000 C
KGA	1470	5000 N
KHO	590	1000 N
<b>Tacoma</b>		
KMO	1330	250
KVI	570	1000 C
<b>Walla Walla</b>		
KUJ	1370	100
<b>Wenatchee</b>		
KPO	1500	100
<b>Yakima</b>		
KIT	1310	100
<b>WEST VIRGINIA</b>		
<b>Bluefield</b>		
WHIS	1410	250
<b>Charleston</b>		
WCHS	580	500
<b>Fairmont</b>		
WMMN	890	500
<b>Huntington</b>		
WSAZ	1190	1000
<b>Parkersburg</b>		
WPAR	1420	100
<b>Wheeling</b>		
WWVA	1160	5000 C
<b>WISCONSIN</b>		
<b>Eau Claire</b>		
WTAQ	1330	1000
<b>Fond du Lac</b>		
KFIZ	1420	100
<b>Green Bay</b>		
WBHY	1200	100
<b>Janesville</b>		
WCLO	1200	100
<b>LaCrosse</b>		
WKBH	1380	1000
<b>Madison</b>		
WHA	940	1000
WIBA	1280	1000 N
<b>Manitowoc</b>		
WOMT	1210	100

<b>Milwaukee</b>		
WEMP	1310	100
WISN	1120	250 C
WTMJ	620	1000 N
<b>Peynette</b>		
WIBU	1210	100
<b>Racine</b>		
WRJN	1370	100
<b>Sheboygan</b>		
WBHL	1410	500
<b>Stevens Point</b>		
WLBL	900	2500
<b>Superior</b>		
WEBC	1290	1000 N
<b>WYOMING</b>		
<b>Casper</b>		
KDFN	1440	500
<b>Sheridan</b>		
KWYO	1370	100
<b>CANADA</b>		
<b>ALBERTA</b>		
<b>Calgary</b>		
CFAC	930	100 F
CFCN	1030	10000
CJGJ	690	100 F
<b>Edmonton</b>		
CFRN	1260	100 F
CJCA	730	1000 F
CKUA	580	500
<b>Lethbridge</b>		
CJOC	1230	100 F
<b>BRITISH COLUMBIA</b>		
<b>Chilliwack</b>		
CHWK	780	100 F
<b>Kamloops</b>		
CFJC	880	100 F
<b>Kelowna</b>		
CKOV	630	100 F
<b>Prince Rupert</b>		
CFPR	580	50
<b>Trail</b>		
CJAT	910	250 F
<b>Vancouver</b>		
CJOR	600	500
CKGD	1010	100
CKFK	1410	50
CKMO	1410	100 F
CKWX	1010	100 F
CRCV	1100	500 F
<b>Victoria</b>		
CFCT	1450	75
<b>MANITOBA</b>		
<b>Brandon</b>		
CKX	1120	100 F
<b>Winnipeg</b>		
CJRC	1390	100 F
CKY	960	15000 F
<b>NEW BRUNSWICK</b>		
<b>Fredericton</b>		
CFNB	550	500 F
<b>Moncton</b>		
CKGW	1370	100 F
<b>St. John</b>		
CHSJ	1120	500 F

<b>N. W. TERRITORY</b>		
<b>Aklavik</b>		
CJCU	1210	50
<b>NOVA SCOTIA</b>		
<b>Glace Bay</b>		
VAS	685	2000
<b>Halifax</b>		
CHNS	930	1000 F
<b>Sydney</b>		
CJCB	1240	1000 F
<b>Wolfville</b>		
CKIC	1010	50
<b>Yarmouth</b>		
CJLS	1310	100
<b>ONTARIO</b>		
<b>Brantford</b>		
CKPC	930	100 F
<b>Chatham</b>		
CFCO	630	100 F
<b>Cobalt</b>		
CKMK	1210	50
<b>Fort William</b>		
CKPR	930	100 F
<b>Hamilton</b>		
CHML	1010	100 F
CKOC	1120	500 F
<b>Kingston</b>		
CFRC	1510	100
<b>Kirkland Lake</b>		
CJKL	530	1000
<b>London</b>		
CFPL	730	100 F
<b>North Bay</b>		
CFCH	930	100 F
<b>Ottawa</b>		
CKCO	1010	100 F
CRCO	880	1000 F
<b>Prescott</b>		
CFLC	930	100
<b>St. Catharines</b>		
CKTB	1200	100 F
<b>Sault Ste. Marie</b>		
CJIC	1500	100
<b>Stratford</b>		
CJCS	1210	50
<b>Sudbury</b>		
CKSO	780	1000 F
<b>Timmins</b>		
CKGB	1420	100
<b>Toronto</b>		
CFRB	690	10000 C
CKLK	580	100 F
CKNC	1420	100 F
CRCT	840	5000 N
<b>Waterloo</b>		
CKCR	1510	100
<b>Windsor</b>		
CKLW	1030	5000
CRCW	600	500 F
<b>Wingham</b>		
CKNX	1200	50
<b>PRINCE EDWARD ISLAND</b>		
<b>Charlottetown</b>		
CFYJ	630	1000 F
CHCK	1310	50
<b>Summerside</b>		
CHGS	1450	50 F

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

QUEBEC		
Chicoutimi		
CRCS	950	100 F
Hull		
CKGH	1210	100 F
Montmagny		
VE9EK	1185	10
Montreal		
CFCF	600	400 N
CHLP	1120	100 F
CKAC	730	5000 C
CRGM	910	5000 F
New Carlisle		
CHNC	1410	500 F
Quebec		
CHRC	580	100 F
CKCV	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		
TIFS	1441	7.5
TIGA	1014	30
San Jose		
TIPF	850	500
TIFA	1050	75
TIGH	1000	500
TIRH	930	50
GUATEMALA		
Guatemala City		
TGW	1210	1000
TGX	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
XEON	640	250
Torreon		
XETR	1310	125
D. F.		
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
DURANGO		
Durango		
XEE	1210	50
GUANAJUATO		
Guanajuato		
XEAZ	1420	7
Leon		
XEKL	1240	500
JALISCO		
Guadalajara		
XEA	1060	125
XED	1155	2500
LOWER CALIFORNIA		
Ensenada		
XEG	1270	200
Mexicali		
XEAA	920	200

XEAO	560	250
Tijuana		
XBC	1160	30
XEMO	860	5000
XEMZ	1210	250
XEOK	760	250
MICHOACAN		
Morelia		
XEI	1370	125
NUEVO LEON		
Monterrey		
XEFB	1420	100
XEFJ	1230	100
XEH	1150	250
XET	690	500
XEX	1310	125
OAXACA		
Oaxaca		
XEAJ	1310	15
PUEBLA		
Puebla		
XETH	1210	100
SAN LUIS POTOSI		
San Luis Potosi		
XEZZ	1370	100
SONORA		
Nogales		
XEAF	990	500
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		
XFR	1270	250
XFD	1340	350
Veracruz		
XETF	1220	12
XEU	1010	250
YUCATAN		
Merida		
XEFC	560	100
XEY	1000	10
XEZ	630	500
WEST INDIES		
CUBA		
Caibarien		
CMID	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
CMCO	680	250
CMCR	1410	150
CMCU	1280	150
CMCW	750	150
CMCX	660	150
CMCY	1030	1000
CMK	1060	250
CMOA	790	150
CMOK	1470	150
CMOX	1320	250
CMQ	840	500
CMW	600	1000
CMX	920	650
Holguin		
CMKF	1460	50
Manzanillo		
CMKM	1120	200
Matanzas		
CMGC	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		
HHH	1395	15
Santo Domingo		
HJJ	1195	15
HIX	800	700
HIZ	1300	10
HAITI		
Port-au-Prince		
HHK	920	1000

## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>CFAC</b>	<b>930</b>	<b>100</b>	<b>Calgary, Alta.</b> T. P. & C. Brdcastg. Co., Southam Bldg.
<b>CFCF</b>	<b>600</b>	<b>400</b>	<b>Montreal, Que.</b> Mt. Royal Hotel
<b>CFCH</b>	<b>930</b>	<b>100</b>	<b>North Bay, Ont.</b> Capitol Theatre Bldg. Roy H. Thomson
<b>CFCN</b>	<b>1030</b>	<b>10000</b>	<b>Calgary, Alta.</b> Toronto Gen. Trust Bldg.
<b>CFCO</b>	<b>630</b>	<b>100</b>	<b>Chatham, Ont.</b> Wm. Pitt Hotel
<b>CFCT</b>	<b>1450</b>	<b>75</b>	<b>Victoria, B. C.</b> 620 View St.
<b>CFCY</b>	<b>630</b>	<b>1000</b>	<b>Charlottetown, P.E.I.</b> 143 Great George St.
<b>CFJC</b>	<b>880</b>	<b>100</b>	<b>Kamloops, B. C.</b> Wilcox-Hall Bldg.
<b>CFLC</b>	<b>930</b>	<b>100</b>	<b>Prescott, Ont.</b> Hoy Bldg., 307 George St.
<b>CFNB</b>	<b>550</b>	<b>500</b>	<b>Fredericton, N. B.</b> York St.
<b>CFPL</b>	<b>730</b>	<b>100</b>	<b>London, Ont.</b> Richmond St.
<b>CFPR</b>	<b>580</b>	<b>50</b>	<b>Prince Rupert, B. C.</b> Felix E. Batt
<b>CFQC</b>	<b>840</b>	<b>1000</b>	<b>Saskatoon, Sask.</b> 216 First Ave., No.
<b>CFRB</b>	<b>690</b>	<b>10000</b>	<b>Toronto, Ont.</b> 37 Bloor St. W.
<b>CFRC</b>	<b>1510</b>	<b>100</b>	<b>Kingston, Ont.</b> Queens University, Fleming Hall
<b>CFRN</b>	<b>1260</b>	<b>100</b>	<b>Edmonton, Alta.</b> 109 C. P. R. Building
<b>CHAB</b>	<b>1200</b>	<b>100</b>	<b>Moose Jaw, Sask.</b> P. O. Box 26
<b>CHCK</b>	<b>1310</b>	<b>50</b>	<b>Charlottetown, P.E.I.</b> 36 Upper Hillsboro St.
<b>CHGS</b>	<b>1450</b>	<b>50</b>	<b>Summerside, P.E.I.</b> 190 Water St.
<b>CHLP</b>	<b>1120</b>	<b>100</b>	<b>Montreal, Que.</b> Sun Life Bldg.
<b>CHML</b>	<b>1010</b>	<b>100</b>	<b>Hamilton, Ont.</b> Pigott Bldg.
<b>CHNC</b>	<b>1410</b>	<b>500</b>	<b>New Carlisle, Que.</b> Gaspesian Radio Brdcastg. Co.
<b>CHNS</b>	<b>930</b>	<b>1000</b>	<b>Halifax, N. S.</b> Lord Nelson Hotel
<b>CHRC</b>	<b>580</b>	<b>100</b>	<b>Quebec, Que.</b> CHRC, Ltd., Victoria Hotel
<b>CHSJ</b>	<b>1120</b>	<b>500</b>	<b>St. John, N. B.</b> Admiral Beatty Hotel
<b>CHWC</b>	<b>1010</b>	<b>500</b>	<b>Regina, Sask.</b> R. H. Williams & Sons, Kitchener Hotel
<b>CHWK</b>	<b>780</b>	<b>100</b>	<b>Chilliwack, B. C.</b> Box 452
<b>CJAT</b>	<b>910</b>	<b>250</b>	<b>Trail, B. C.</b> Kootenay Brdcastg. Co., P. O. Box 1959
<b>CJCA</b>	<b>730</b>	<b>1000</b>	<b>Edmonton, Alta.</b> 10122—100A St.
<b>CJCB</b>	<b>1240</b>	<b>1000</b>	<b>Sydney, N. S.</b> 318 Charlotte St.
<b>CJCJ</b>	<b>690</b>	<b>100</b>	<b>Calgary, Alta.</b> New Albertan Bldg.
<b>CJCS</b>	<b>1210</b>	<b>50</b>	<b>Stratford, Ont.</b> M. I. Higgins, 161 Ontario St.
<b>CJCU</b>	<b>1210</b>	<b>50</b>	<b>Aklavik, N. W. T.</b> Dr. J. A. Urquhart, Dept. of Interior
<b>CJGX</b>	<b>630</b>	<b>500</b>	<b>Yorkton, Sask.</b> 188 Grain Exchange Bldg. (Winnipeg)
<b>CJIC</b>	<b>1500</b>	<b>100</b>	<b>S. Ste. Marie, Ont.</b> Windsor Hotel, P. O. Box 504
<b>CJKL</b>	<b>530</b>	<b>1900</b>	<b>Kirkland Lake, Ont.</b> Northern Brdcastg Co., Ltd.

<b>CJLS</b>	<b>1310</b>	<b>100</b>	<b>Yarmouth, N. S.</b> Laurie L. Smith, Grand Hotel
<b>CJOC</b>	<b>1230</b>	<b>100</b>	<b>Lethbridge, Alta.</b> Marquis Hotel
<b>CJOR</b>	<b>600</b>	<b>500</b>	<b>Vancouver, B. C.</b> G. C. Chandler, Hotel Grosvenor
<b>CJRC</b>	<b>1390</b>	<b>100</b>	<b>Winnipeg, Man.</b> Royal Alexandra Hotel
<b>CJRM</b>	<b>540</b>	<b>1000</b>	<b>Moose Jaw, Sask.</b> 311 Main St. No.
<b>CKAC</b>	<b>730</b>	<b>5000</b>	<b>Montreal, Que.</b> 980 St. Catherine St. W.
<b>CKBI</b>	<b>1210</b>	<b>100</b>	<b>Prince Albert, Sask.</b> Canada Bldg.
<b>CKCD</b>	<b>1010</b>	<b>100</b>	<b>Vancouver, B. C.</b> 142 Hastings St. W.
<b>CKCH</b>	<b>1210</b>	<b>100</b>	<b>Hull, Que.</b> Standish Hall Hotel
<b>CKCK</b>	<b>1010</b>	<b>500</b>	<b>Regina, Sask.</b> 1853 Hamilton St.
<b>CKCL</b>	<b>580</b>	<b>100</b>	<b>Toronto, Ont.</b> 444 University Ave.
<b>CKCO</b>	<b>1010</b>	<b>100</b>	<b>Ottawa, Ont.</b> 272 Somerset St. W.
<b>CKCR</b>	<b>1510</b>	<b>100</b>	<b>Waterloo, Ont.</b> 24 King St., So.
<b>CKCV</b>	<b>1310</b>	<b>100</b>	<b>Quebec, Que.</b> 142 St. John St.
<b>CKCW</b>	<b>1370</b>	<b>100</b>	<b>Moncton, N. B.</b> Moncton Brdcastg. Co., Ltd., K. of P. Hall
<b>CKFK</b>	<b>1410</b>	<b>50</b>	<b>Vancouver, B. C.</b> Hemlock & 12th Ave.
<b>CKGB</b>	<b>1420</b>	<b>100</b>	<b>Timmins, Ont.</b> R. H. Thompson, Press Bldg.
<b>CKIC</b>	<b>1010</b>	<b>50</b>	<b>Wolfville, N. S.</b> Acadia University
<b>CKLW</b>	<b>1030</b>	<b>5000</b>	<b>Windsor, Ont.</b> Guaranty Trust Bldg.
<b>CKMC</b>	<b>1210</b>	<b>50</b>	<b>Cobalt, Ont.</b> R. L. MacAdam
<b>CKMO</b>	<b>1410</b>	<b>100</b>	<b>Vancouver, B. C.</b> 1604 Bekins Bldg.
<b>CKNC</b>	<b>1420</b>	<b>100</b>	<b>Toronto, Ont.</b> 805 Davenport Road
<b>CKNX</b>	<b>1200</b>	<b>50</b>	<b>Wingham, Ont.</b> Wingham Radio Club
<b>CKOC</b>	<b>1120</b>	<b>500</b>	<b>Hamilton, Ont.</b> Wentworth Bldg.
<b>CKOV</b>	<b>630</b>	<b>100</b>	<b>Kelowna, B. C.</b> Okanagan Broadcasters, Ltd., Box 243
<b>CKPC</b>	<b>930</b>	<b>100</b>	<b>Brantford, Ont.</b> Arcade Bldg.
<b>CKPR</b>	<b>930</b>	<b>100</b>	<b>Fort William, Ont.</b> Royal Edward Hotel
<b>CKSO</b>	<b>780</b>	<b>1000</b>	<b>Sudbury, Ont.</b> W. E. Mason, Grand Theatre Bldg.
<b>CKTB</b>	<b>1200</b>	<b>100</b>	<b>St. Catharines, Ont.</b> E. T. Sandell, Welland House
<b>CKUA</b>	<b>580</b>	<b>500</b>	<b>Edmonton, Alta.</b> University of Alberta
<b>CKWX</b>	<b>1010</b>	<b>100</b>	<b>Vancouver, B. C.</b> Hotel Georgia
<b>CKX</b>	<b>1120</b>	<b>100</b>	<b>Brandon, Man.</b> City Hall Square
<b>CKY</b>	<b>960</b>	<b>15000</b>	<b>Winnipeg, Man.</b> Sherbrooke St.
<b>CMBC</b>	<b>940</b>	<b>500</b>	<b>Havana, Cuba</b> Domingo Fernandez, Monte No. 139
<b>CMBD</b>	<b>1170</b>	<b>150</b>	<b>Havana, Cuba</b> Luis Perez Garcia, Calle 17 No. 3, Vedado
<b>CMBG</b>	<b>1140</b>	<b>200</b>	<b>Havana, Cuba</b> John L. Stowers, Hospital No. 100

## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>CMBN 880 150 Havana, Cuba</b> Pozos Dulces No. 3	<b>CMJI 1130 50 Ciego de Avila, Cuba</b> Gilberto Gessa Lopez, Independencia 95
<b>CMBS 770 150 Havana, Cuba</b> Calzada y H. St., Vedado	<b>CMJK 780 250 Camaguey, Cuba</b> Cla. Nacional de Radio, Fintay No. 3
<b>CMBX 1380 150 Havana, Cuba</b> Alberto Alvarez, San Miguel 194	<b>CMJL 1340 100 Camaguey, Cuba</b> M. Caymares, Republica 181
<b>CMBY 640 150 Havana, Cuba</b> Infanta 132 Callejas Estefani	<b>CMJO 1180 50 Ciego de Avila, Cuba</b> C. Central & Maceo
<b>CMBZ 1000 250 Havana, Cuba</b> Manuel y G. Salas, San Rafael No. 14	<b>CMJP 1430 100 Camaguey, Cuba</b> Cesar Canal, Callejas No. 28
<b>CMCA 1350 250 Havana, Cuba</b> Gallano No. 102	<b>CMK 1060 250 Havana, Cuba</b> Hotel Plaza
<b>CMCB 1230 150 Havana, Cuba</b> Metropolitan Bldg. 828/30.	<b>CMKC 1250 150 Santiago, Cuba</b> J. A. Saco, P. O. Box 466
<b>CMCD 960 250 Havana, Cuba</b> Calle G y 25, Vedado	<b>CMKD 1050 250 Santiago, Cuba</b> Box 23
<b>CMCF 815 250 Havana, Cuba</b> Cuban Brdcastg. Co., Paseo de Marti No. 9	<b>CMKF 1460 50 Holguin, Cuba</b> Libertad esq. Arias
<b>CMCG 1255 250 Havana, Cuba</b> Malecon No. 340 Altos	<b>CMKM 1120 200 Manzanillo, Cuba</b> Merchan P. Figeredo, P. O. Box 4
<b>CMCJ 1200 350 Havana, Cuba</b> Rafael Rodriguez, Estevez No. 4	<b>CMKR 1400 100 Santiago, Cuba</b> B. Maso alta 71
<b>CMCN 1500 150 Havana, Cuba</b> Rena y Ave. Buen Retiro, Marianao	<b>CMKV 1190 50 Santiago, Cuba</b> Oscar Vidal, Palma Soriano
<b>CMCO 1110 250 Havana, Cuba</b> Oficlos 116, Enrique Lasanta	<b>CMOA 790 150 Havana, Cuba</b> Juan Fernandez, Aguiar 126 Altos
<b>CMCQ 680 250 Havana, Cuba</b> Vista Alegre No. 80, Vibora	<b>CMOK 1470 150 Havana, Cuba</b> Rafael Valdez, Estrella 121
<b>CMCR 1410 150 Havana, Cuba</b> Milagros No. 35 Vibora	<b>CMOX 1320 250 Havana, Cuba</b> 10 entre 17 y 19, Vedado
<b>CMCU 1280 150 Havana, Cuba</b> San Francisco No. 13, Vibora	<b>CMQ 840 500 Havana, Cuba</b> 25 Numero 445, Vedado
<b>CMCW 550 150 Havana, Cuba</b> San Lazaro No. 113	<b>CMW 600 1000 Havana, Cuba</b> Troncoso y Gll, Prado 105 (altos)
<b>CMCX 660 150 Havana, Cuba</b> Maceo No. 7, Guanabacoa	<b>CMX 920 650 Havana, Cuba</b> Edif. J. Calle, Oficlos y Obrapca
<b>CMCY 1030 1000 Havana, Cuba</b> Manuel D. Autran, Calle G 215, Vedado	<b>CRCK 1050 1000 Quebec, Que.</b> Chateau Frontenac Hotel
<b>CMGC 1400 100 Matanzas, Cuba</b> Independencia No. 56	<b>CRCM 910 5000 Montreal, Que.</b> 1231 St. Catherine St. W.
<b>CMGE 1370 50 Cardenas, Cuba</b> Genaro Sebster, Cespedes No. 180	<b>CRCO 880 1000 Ottawa, Ont.</b> Chateau Laurier Hotel
<b>CMGF 1120 100 Matanzas, Cuba</b> G. Betancourt No. 51	<b>CRCS 950 100 Chicoutimi, Que.</b> 4 Rue Larouche
<b>CMGI 1420 50 Matanzas, Cuba</b> Armando Lizama Mart No. 35	<b>CRCT 840 5000 Toronto, Ont.</b> 805 Davenport Road
<b>CMHA 1070 50 Sagua la Grande, Cu.</b> Abelardo Menocal, Carrillo No. 31	<b>CRCV 1100 500 Vancouver, B. C.</b> 1150 Main Street
<b>CMHB 1240 50 Sancti Spiritus, Cuba</b> Independencia No. 33	<b>CRCW 600 500 Windsor, Ont.</b> Guaranty Trust Bldg.
<b>CMHD 1270 250 Calbarien, Cuba</b> Manuel Alvarez, M. Escobar 17	<b>FQN 609 250 St. Pierre, Mlq.</b>
<b>CMHI 1210 150 Santa Clara, Cuba</b> Lavis y Paz, Independencia No. 34	<b>HHK 920 1000 Port-au-Prince, Haiti</b> Haitian Government
<b>CMHJ 1160 100 Cienfuegos, Cuba</b> Romualdo Ugalde, Sta. Elena 184	<b>HIH 1395 15 San Pedro de M., D.R.</b> Domingo Dominguez
<b>CMHK 1300 250 Cruces, Cuba</b> Heredia No. 61	<b>HIJ 1195 15 Santo Domingo, D.R.</b> Tuto Baez, Hostos 34
<b>CMHW 810 100 Cienfuegos, Cuba</b> P. O. Box 226, Ramon Gonzales	<b>HIX 800 700 Santo Domingo, D.R.</b> J. R. Saladin, Director General
<b>CMHX 760 500 Cienfuegos, Cuba</b> F. Chavarry, P. O. Box 205	<b>HIZ 1300 10 Santo Domingo, D.R.</b> Abbes and Garcia
<b>CMJA 1010 300 Camaguey, Cuba</b> Rafael Valdes, P. O. Box 64	<b>HRN 1270 100 Tegucigalpa, Hond.</b>
<b>CMJC 1390 150 Camaguey, Cuba</b> Cisneros y G. Gomez	<b>KABC 1420 100 San Antonio, Texas</b> Texas Theatre Bldg.
<b>CMJE 1220 50 Camaguey, Cuba</b> Manuel Fernandez, Hnos. Aguerre No. 2	<b>KABR 1420 100 Aberdeen, S. Dak.</b> Aberdeen Broadcast Co.
<b>CMJF 1150 200 Camaguey, Cuba</b> John L. Stowers, Republica No. 88	<b>KADA 1200 100 Ada, Okla.</b> C. C. Morris
<b>CMJH 1360 100 Ciego de Avila, Cuba</b> Luis Narauri, H. Castilla 37	<b>KALB 1420 100 Alexandria, La.</b> Alexandria Brdcastg. Co.

## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>KALE 1300</b>	<b>500</b>	<b>Portland, Ore.</b>	<b>KFJI 1210</b>	<b>100</b>	<b>Klamath Falls, Ore.</b>
Kale, Inc., New	Heathman Hotel		KFJI Broadcasters, Inc., Willard Hotel		
<b>KARK 890</b>	<b>250</b>	<b>Little Rock, Ark.</b>	<b>KFJM 1370</b>	<b>100</b>	<b>Grand Forks, N. D.</b>
N. S. L. Bldg.			University of North Dakota		
<b>KASA 1210</b>	<b>100</b>	<b>Elk City, Okla.</b>	<b>KFJR 1300</b>	<b>500</b>	<b>Portland, Ore.</b>
E. M. Woody, Casa Grande Hotel			622 Lumberman's Bldg.		
<b>KASt 1370</b>	<b>100</b>	<b>Astoria, Ore.</b>	<b>KFJZ 1370</b>	<b>100</b>	<b>Fort Worth, Texas</b>
Abraham Shapiro, 611 Commercial St.			502 Trinity Life Bldg.		
<b>KBPS 1420</b>	<b>100</b>	<b>Portland, Ore.</b>	<b>KFKA 880</b>	<b>500</b>	<b>Greeley, Colo.</b>
546 N. E. 12th Ave.			Box 735		
<b>KBTM 1200</b>	<b>100</b>	<b>Jonesboro, Ark.</b>	<b>KFKU 1220</b>	<b>1000</b>	<b>Lawrence, Kans.</b>
Jay P. Beard			University of Kansas		
<b>KCMC 1420</b>	<b>100</b>	<b>Texarkana, Ark.</b>	<b>KFNH 890</b>	<b>500</b>	<b>Shenandoah, Iowa</b>
Box 865			407 Sycamore St.		
<b>KCRC 1360</b>	<b>250</b>	<b>Enid, Okla.</b>	<b>KFOR 1210</b>	<b>100</b>	<b>Lincoln, Neb.</b>
Enid Radiophone Co., Oxford Hotel			Howard Shuman, Hotel Lincoln		
<b>KCRJ 1310</b>	<b>100</b>	<b>Jerome, Ariz.</b>	<b>KFOX 1250</b>	<b>1000</b>	<b>Long Beach, Calif.</b>
Chas. C. Robinson, Drawer D			220 E. Anaheim St.		
<b>KDB 1500</b>	<b>100</b>	<b>Santa Barbara, Calif.</b>	<b>KFPL 1310</b>	<b>100</b>	<b>Dublin, Texas</b>
15-17 E. Haley St.			C. C. Baxter, Box 176		
<b>KDFN 1440</b>	<b>500</b>	<b>Casper, Wyo.</b>	<b>KFPW 1210</b>	<b>100</b>	<b>Fort Smith, Ark.</b>
Donald Lewis Hathaway, Box 930			Goldman Hotel		
<b>KDKA 980</b>	<b>50000</b>	<b>Pittsburgh, Pa.</b>	<b>KFPY 890</b>	<b>1000</b>	<b>Spokane, Wash.</b>
Grant Building			Symons Bldg.		
<b>KDLR 1210</b>	<b>100</b>	<b>Devils Lake, N. D.</b>	<b>KFQD 780</b>	<b>250</b>	<b>Anchorage, Alaska</b>
KDLR, Inc., 1025 3rd Street			411-4th Ave.		
<b>KDON 1210</b>	<b>100</b>	<b>Del Monte, Calif.</b>	<b>KFRC 610</b>	<b>1000</b>	<b>San Francisco, Calif.</b>
Richard F. Lewis			1000 Van Ness Ave.		
<b>KDYL 1290</b>	<b>1000</b>	<b>Salt Lake City, Utah</b>	<b>KFR0 1370</b>	<b>100</b>	<b>Longview, Texas</b>
Ezra Thompson Bldg.			Voice of Longview, Box 86		
<b>KECA 1430</b>	<b>1000</b>	<b>Los Angeles, Calif.</b>	<b>KFRU 630</b>	<b>500</b>	<b>Columbia, Mo.</b>
1000 S. Hope St.			KFRU, Inc., 9th and Elm Sts.		
<b>KEHE 780</b>	<b>500</b>	<b>Los Angeles, Calif.</b>	<b>KFS0 600</b>	<b>1000</b>	<b>San Diego, Calif.</b>
214 S. Vermont St.			U. S. Grant Hotel		
<b>KELD 1370</b>	<b>100</b>	<b>El Dorado, Ark.</b>	<b>KFSG 1120</b>	<b>500</b>	<b>Los Angeles, Calif.</b>
T. H. Barton			1100 Glendale Blvd.		
<b>KELW 780</b>	<b>500</b>	<b>Burbank, Calif.</b>	<b>KFU0 550</b>	<b>500</b>	<b>St. Louis, Mo.</b>
3702 Magnolia Park Blvd.			801 De Mun St.		
<b>KERN 1370</b>	<b>100</b>	<b>Bakersfield, Calif.</b>	<b>KFVD 1000</b>	<b>250</b>	<b>Los Angeles, Calif.</b>
Elk's Club			E. L. Cord, 645 S. Mariposa		
<b>KEX 1180</b>	<b>5000</b>	<b>Portland, Ore.</b>	<b>KFVS 1210</b>	<b>100</b>	<b>Cape Girardeau, Mo</b>
Oregonian Bldg.			Oscar C. Hirsch, Box 275		
<b>KFAB 770</b>	<b>10000</b>	<b>Lincoln, Neb.</b>	<b>KFWB 950</b>	<b>1000</b>	<b>Hollywood, Calif.</b>
Cornhusker Hotel			Warner Bros. Motion Pictures, Inc.		
<b>KFAC 1300</b>	<b>1000</b>	<b>Los Angeles, Calif.</b>	<b>KFXD 1200</b>	<b>100</b>	<b>Nampa, Idaho</b>
E. L. Cord, 645 So. Mariposa			Frank E. Hurt, 1024 12th Ave., S.		
<b>KFBB 1280</b>	<b>1000</b>	<b>Great Falls, Mont.</b>	<b>KFXJ 1200</b>	<b>100</b>	<b>Grand Jct., Colo.</b>
Buttrey Broadcast, Inc., P. O. Box 1817			Hillcrest Manor		
<b>KFBI 1050</b>	<b>5000</b>	<b>Abitene, Kans.</b>	<b>KFXM 1210</b>	<b>100</b>	<b>San Bernardino, Calif.</b>
Box 345			California Hotel		
<b>KFBK 1490</b>	<b>5000</b>	<b>Sacramento, Calif.</b>	<b>KFXR 1310</b>	<b>100</b>	<b>Oklahoma City, Okla.</b>
Sacramento Bee, 7th & I Sts.			541 Hightower Bldg.		
<b>KFDM 560</b>	<b>500</b>	<b>Beaumont, Texas</b>	<b>KFY0 1310</b>	<b>100</b>	<b>Lubbock, Texas</b>
Beaumont Hotel, P. O. Box 2950			Kirksey Bros., Hotel Lubbock		
<b>KFDY 780</b>	<b>1000</b>	<b>Breokings, S. D.</b>	<b>KFYR 550</b>	<b>1000</b>	<b>Bismarck, N. D.</b>
Box L. State College Station			320 Broadway		
<b>KFEL 920</b>	<b>500</b>	<b>Denver, Colo.</b>	<b>KGA 1470</b>	<b>5000</b>	<b>Spokane, Wash.</b>
Albany Hotel			1023 W. Riverside Ave.		
<b>KFEQ 680</b>	<b>2500</b>	<b>St. Joseph, Mo.</b>	<b>KGAR 1370</b>	<b>100</b>	<b>Tucson, Ariz.</b>
Schneider Bldg., KFEQ, Inc.			142 S. 6th Ave.		
<b>KFGQ 1370</b>	<b>100</b>	<b>Boone, Iowa</b>	<b>KGB 1330</b>	<b>1000</b>	<b>San Diego, Calif.</b>
924 W. 2nd St.			1012-1st Ave.		
<b>KFH 1300</b>	<b>1000</b>	<b>Wichita, Kans.</b>	<b>KGBU 900</b>	<b>500</b>	<b>Ketchikan, Alaska</b>
124 1/2 S. Market St.			Mile 5. Wards Cove Rd.		
<b>KFI 640</b>	<b>50000</b>	<b>Los Angeles, Calif.</b>	<b>KGBX 1230</b>	<b>500</b>	<b>Springfield, Mo.</b>
1000 S. Hope St.			KGBX, Inc., St. Louis at Kimbrough		
<b>KFIO 1120</b>	<b>100</b>	<b>Spokane, Wash.</b>	<b>KGBZ 930</b>	<b>1000</b>	<b>Yerk, Neb.</b>
Ziegler Building			KGBZ Broadcasting Co., 719 Grant Ave.		
<b>KFIZ 1420</b>	<b>100</b>	<b>Fond du Lac, Wis.</b>	<b>KGCA 1270</b>	<b>100</b>	<b>Decorah, Iowa</b>
18 W. 1st St.			Charles W. Greenley, 201 Water St.		
<b>KFJB 1200</b>	<b>100</b>	<b>Marshalltown, Iowa</b>	<b>KGCU 1240</b>	<b>250</b>	<b>Mandan, N. D.</b>
1603 W. Main St.			404 W. Main St.		

NORTH AMERICAN B. C. STATIONS BY CALLS

<b>KG CX</b> 1310 100 Wolf Point, Mont. E. E. Krebsbach.	<b>KH BC</b> 1420 100 Hilo, T. H.
<b>KG DE</b> 1280 100 Fergus Falls, Minn. C. L. Jaren	<b>KH J</b> 900 1000 Los Angeles, Calif. 7th & Bixel Sts.
<b>KG DM</b> 1100 1000 Stockton, Calif. E. F. Peffer, 42 S. Calif. St.	<b>KH Q</b> 590 1000 Spokane, Wash. Sprague Ave. & Post St.
<b>KG DY</b> 1340 250 Huron, S. D. Voice of S. D., Inc., 347 Dakota Ave.	<b>KH SL</b> 950 250 Chico, Calif. Golden Empire Brdstg. Co.
<b>KG EK</b> 1200 100 Sterling, Colo. Elmer G. Beehler, 109 W. 2nd St.	<b>KI CA</b> 1370 100 Clovis, N. M. Southwest Broadcasting Co.
<b>KG ER</b> 1360 1000 Long Beach, Calif. 435 Pine Ave.	<b>KI D</b> 1320 250 Idaho Falls, Idaho Box 487
<b>KG EZ</b> 1310 100 Kallispell, Mont. Donald C. Treloar, Box 1	<b>KI DO</b> 1350 1000 Boise, Idaho Hotel Boise
<b>KG FF</b> 1420 100 Shawnee, Okla. 9th & Bell Sts.	<b>KI DW</b> 1420 100 Lamar, Colo. Lamar Broadcasting Co., Box 688
<b>KG FG</b> 1370 100 Oklahoma City, Okla. Okla. Broadcasting Co., 1113 N. Broadway	<b>KI EM</b> 1210 100 Eureka, Calif. Redwood Brdstg. Co., Vance Hotel
<b>KG FI</b> 1500 100 Corpus Christi, Texas Eagle Broadcasting Co., Inc., P. O. Box 1508	<b>KI EV</b> 850 100 Glendale, Calif. Cannon System, Ltd., Glendale Hotel
<b>KG FJ</b> 1200 100 Los Angeles, Calif. Ben S. McGlashan, 1417 S. Figueroa	<b>KI NY</b> 1310 100 Juneau, Alaska Edwin A. Kraft
<b>KG FK</b> 1500 100 Moorhead, Minn. Comstock Hotel	<b>KI RO</b> 710 500 Seattle, Wash. Tower Bldg.
<b>KG FL</b> 1370 100 Roswell, N. M. KGFL, Inc., 507 N. Main St.	<b>KI T</b> 1310 100 Yakima, Wash. 109 1/2 E. Yakima Ave.
<b>KG FW</b> 1310 100 Kearney, Neb. 919 West 27th St.	<b>KI UJ</b> 1310 100 Santa Fe, N. Mex. W. C. Irvin
<b>KG FX</b> 630 200 Pierre, S. D. Dana McNeil, Box 573	<b>KI UL</b> 1210 100 Garden City, Kans. Garden City Brdstg. Co.
<b>KG GC</b> 1420 100 San Francisco, Calif. 230 Eddy St.	<b>KI UN</b> 1420 100 Pecos, Texas J. H. Hawkins & B. H. Hubbs
<b>KG GF</b> 1010 1000 Coffeyville, Kans. Coffeyville Journal Bldg.	<b>KI UP</b> 1370 100 Durango, Colo. C. Guy Shepard, 2800 Main Street
<b>KG GM</b> 1230 250 Albuquerque, N. M. Kimo Building	<b>KJ BS</b> 1070 500 San Francisco, Calif. 1380 Bush St.
<b>KG HF</b> 1320 500 Pueblo, Colo. C. P. Ritchie, 113 Broadway	<b>KJ R</b> 970 5000 Seattle, Wash. Skinner Bldg.
<b>KG HI</b> 1200 100 Little Rock, Ark. Arkansas Brdstg. Co., Marion Hotel	<b>KL CN</b> 1290 100 Blytheville, Ark. C. L. Lintzenich, Main and Division St.
<b>KG HL</b> 780 1000 Billings, Mont. 5th & N. Broadway	<b>KL O</b> 1400 500 Ogden, Utah 405-25th St.
<b>KG IR</b> 1240 1000 Butte, Mont. KGIR, Inc., 121 W. Broadway	<b>KL PM</b> 1240 250 Minot, N. D. John B. Cooley, Box 707
<b>KG IW</b> 1420 100 Alamosa, Colo. Leonard E. Wilson, 326 N. Commercial	<b>KL RA</b> 1390 1000 Little Rock, Ark. Arkansas Broadcasting Co., Box 550
<b>KG KB</b> 1500 100 Tyler, Texas 115 S. College	<b>KL S</b> 1440 250 Oakland, Calif. Warner Bros., 2201 Telegraph Ave.
<b>KG KL</b> 1370 100 San Angelo, Texas KGKL, Inc., St. Angelus Hotel	<b>KL UF</b> 1370 100 Galveston, Texas Geo. R. Clough, Buccaneer Hotel
<b>KG KO</b> 570 250 Wichita Falls, Texas 9th St. & Indiana Ave.	<b>KL X</b> 880 1000 Oakland, Calif. Tribune Tower
<b>KG KY</b> 1500 100 Scottsbluff, Neb. Hilliard Co., Inc., 1517 1/2 Broadway	<b>KL Z</b> 560 1000 Denver, Colo. Shirley-Savoy Hotel
<b>KG MB</b> 1320 1000 Honolulu, T. H. Honolulu Broadcasting Co., Box 2663	<b>KMA</b> 930 1000 Shenandoah, Iowa Earl E. May Seed & Nursery Co.
<b>KG NC</b> 1410 1000 Amarillo, Texas Plains Radio Brdstg. Co.	<b>KMAC</b> 1370 100 San Antonio, Texas W. W. McAllister, Smith-Young Tower
<b>KG NF</b> 1430 1000 North Platte, Neb. Great Plains Broadcasting Co., W. 12th St.	<b>KM BC</b> 950 1000 Kansas City, Mo. Pickwick Hotel
<b>KG NO</b> 1340 250 Dodge City, Kans. First Natl. Bank Bldg.	<b>KM ED</b> 1310 100 Medford, Ore. Mrs. W. J. Virgin, Sparta Bldg.
<b>KG O</b> 790 7500 San Francisco, Calif. 111 Sutter St.	<b>KM J</b> 580 1000 Fresno, Calif. Van Ness & Calaveras Sts.
<b>KG U</b> 750 2500 Honolulu, T. H. Kapiolani at South St.	<b>KML B</b> 1200 100 Monroe, La. Francis Hotel
<b>KG VO</b> 1260 1000 Missoula, Mont. Moshys, Inc., 240 N. Higgins	<b>KMM J</b> 740 1000 Clay Center, Neb. The M. M. Johnson Co.
<b>KG W</b> 628 1000 Portland, Ore. 325 Adler St.	<b>KMO</b> 1330 250 Tacoma, Wash. KMO, Inc., Hotel Winthrop
<b>KG Y</b> 1210 100 Olympia, Wash. KGY, Inc., 11th and Capitol Way	<b>KMO X</b> 1090 50000 St. Louis, Mo. 401 S. 12th St.

**NORTH AMERICAN B. C. STATIONS BY CALLS**

<b>KMPC 710 500 Beverly Hills, Calif.</b> 9631 Wilshire Blvd.	<b>KRLD 1040 10000 Dallas, Texas</b> KRLD Radio Corp., Adolphus Hotel
<b>KMTR 570 1000 Hollywood, Calif.</b> KMTR Radio Corp., 915 N. Formosa Ave.	<b>KRLH 1420 100 Midland, Texas</b> Clarence Scharbauer
<b>KNEL 1500 100 Brady, Texas</b> G. L. Burns	<b>KRMD 1310 100 Shreveport, La.</b> Jefferson Hotel
<b>KNET 1420 100 Palestine, Texas</b> Palestine Brdstg. Assn.	<b>KRRR 1500 100 Roseburg, Ore.</b> Oregon Pub. Co.
<b>KNOW 1500 100 Austin, Texas</b> Norwood Building	<b>KRNT 1320 500 Des Moines, Iowa</b> 715 Locust Street
<b>KNX 1050 50000 Hollywood, Calif.</b> West. Broadcast Co., Inc., 1558 N. Vine St.	<b>KROC 1310 100 Rochester, Minn.</b> Southern Minnesota Broadcasting Co.
<b>KOA 830 50000 Denver, Colo.</b> General Electric Co., 1370 Krameria St.	<b>KROW 930 1000 Oakland, Calif.</b> 1803 Franklin St.
<b>KOAC 550 1000 Corvallis, Ore.</b> Oregon State Agricultural College	<b>KRSC 1120 100 Seattle, Wash.</b> Radio Sales Corp., Washington Athletic Club
<b>KOB 1180 10000 Albuquerque, N. M.</b> Albuquerque Journal, Box 1319	<b>KSAC 580 500 Manhattan, Kans.</b> State College of Agriculture
<b>KOH 1380 500 Reno, Nev.</b> 440 N. Virginia St.	<b>KSCJ 1330 1000 Sioux City, Iowa</b> Perkins Bros. Co., 415 Douglas St.
<b>KOIL 1260 1000 Council Bluffs, Iowa</b> Mona Motor Oil Co.	<b>KSD 550 1000 St. Louis, Mo.</b> St. Louis Post-Dispatch
<b>KOIN 940 1000 Portland, Ore.</b> KOIN, Inc., New Heathman Hotel	<b>KSEI 900 250 Pocatello, Idaho</b> Radio Service Corp., 141 S. 6th Ave.
<b>KOL 1270 1000 Seattle, Wash.</b> Northern Life Tower	<b>KSFO 568 1000 San Francisco, Calif.</b> Russ Building
<b>KOMA 1480 5000 Oklahoma City, Okla</b> Blitmore Hotel	<b>KSL 1130 50000 Salt Lake City, Utah</b> Vermont Bldg.
<b>KOMO 920 1000 Seattle, Wash.</b> Skinner Bldg.	<b>KSLM 1370 100 Salem, Ore.</b> Oregon Radio, Inc.
<b>KONO 1370 100 San Antonio, Texas</b> Mission Broadcast Co., Milam Bldg.	<b>KSO 1430 500 Des Moines, Iowa</b> 715 Locust Street
<b>KOOS 1390 250 Marshfield, Ore.</b> H. H. Hanseth, Hall Bldg.	<b>KSOO 1110 2500 Sioux Falls, S. D.</b> Sioux Falls Brdst. Assn., Carpenter Hotel
<b>KORE 1420 100 Eugene, Ore.</b> 733 Willamette St.	<b>KSTP 1460 25000 St. Paul, Minn.</b> St. Paul Hotel
<b>KOTN 1500 100 Pine Bluff, Ark.</b> Universal Brdstg. Corp., Hotel Pines	<b>KSUN 1200 100 Lowell, Ariz.</b> Copper Electrical Co., Drawer C
<b>KOY 1390 500 Phoenix, Ariz.</b> P. O. Box 1323	<b>KTAR 620 1000 Phoenix, Ariz.</b> Heard Building
<b>KPAC 1260 500 Port Arthur, Texas</b> Port Arthur College	<b>KTAT 1240 1000 Fort Worth, Texas</b> Ft. Worth Natl. Bank Bldg.
<b>KPJM 1500 100 Prescott, Ariz.</b> Scott & Sturm, P. O. Box 782	<b>KTBS 1450 1000 Shreveport, La.</b> Box 17
<b>KPLC 1500 100 Lake Charles, La.</b> Caleasieu Brdstg. Co., Majestic Hotel	<b>KTFI 1240 1000 Twin Falls, Idaho</b> Radio Broadcasting Corp., Box 521
<b>KPO 680 50000 San Francisco, Calif.</b> 111 Sutter St.	<b>KTHS 1060 1000 Hot Springs, Ark.</b> Chamber of Commerce, Box 886
<b>KPOF 880 500 Denver, Colo.</b> Pillar of Fire, 1845 Champa St.	<b>KTRB 740 250 Modesto, Calif.</b> McTammany & Bates, P. O. Box 405
<b>KPPC 1210 50 Pasadena, Calif.</b> 585 E. Colorado St.	<b>KTRH 1290 1000 Houston, Texas</b> KTRH Broadcasting Co., Rice Hotel
<b>KPQ 1500 100 Wenatchee, Wash.</b> KPQ Bldg., 20 2nd St.	<b>KTSA 550 1000 San Antonio, Texas</b> Southwest Broadcasting Co., Plaza Hotel
<b>KPRC 920 1000 Houston, Texas</b> Lamar Hotel	<b>KTSM 1310 100 El Paso, Texas</b> P. O. Box 1976
<b>KQV 1380 500 Pittsburgh, Pa.</b> IQV Broadcasting Co., 1406 C. of C. Bldg.	<b>KTUL 1400 500 Tulsa, Okla.</b> National Bank of Tulsa Bldg.
<b>KQW 1010 1000 San Jose, Calif.</b> 87 E. San Antonio St.	<b>KTW 1220 1000 Seattle, Wash.</b> 7th & Spring St.
<b>KRE 1370 100 Berkeley, Calif.</b> 2337 Shattuck Ave.	<b>KUJ 1370 100 Walla Walla, Wash.</b> KUJ, Inc., Marcus Whitman Hotel
<b>KREG 1500 100 Santa Ana, Calif.</b> 3rd & Sycamore Sts.	<b>KUMA 1420 100 Yuma, Ariz.</b> Dr. A. I. Sebermann, Box 267
<b>KRGV 1260 500 Weslaco, Texas</b> KRGV Inc.	<b>KUOA 1260 1000 Fayetteville, Ark.</b> KUOA, Inc., Washington Hotel
<b>KRKD 1120 500 Los Angeles, Calif.</b> 815 Spring Arcade Bldg.	<b>KUSD 890 500 Vermillion, S. D.</b> University of South Dakota
<b>KRKO 1370 50 Everett, Wash.</b> Lee Mudgett, 2814 Rucker Ave.	<b>KVI 570 1000 Tacoma, Wash.</b> W. R. Rust Bldg.
<b>KRLC 1420 100 Lewiston, Idaho</b> H. E. Studebaker, Lewis-Clarke Hotel	<b>KVL 1370 100 Seattle, Wash.</b> KVL, Inc., 2101 Smith Tower



## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>KVOA 1260 500 Tucson, Ariz.</b> Cons. Natl. Bank Bldg.	<b>VAS 685 2000 Glace Bay, N. S.</b> Canadian Maroon Co., Ltd.
<b>KVOD 920 500 Denver, Colo.</b> Continental Oil Bldg.	<b>VEBEK 1185 10 Montmagny, Que.</b> J. A. Marquis, P. O. Box 52
<b>KVOL 1310 100 Lafayette, La.</b> Evangeline Hotel	<b>VOAC 1065 40 St. John's, Nfld.</b>
<b>KVOO 1140 25000 Tulsa, Okla.</b> Wright Bldg.	<b>VOAS 940 100 St. John's, Nfld</b> Ayre & Sons, Ltd., Water St.
<b>KVOR 1270 1000 Colorado Spg., Cole.</b> Antlers Hotel	<b>VOGY 840 400 St. John's, Nfld.</b> Newfoundland Hotel
<b>KVOS 1200 100 Bellingham, Wash.</b> 115 W. Magnolia St.	<b>VONF 1195 500 St. John's, Nfld.</b> Dominion Broadcasting Co., Ltd., Box 135
<b>KVSO 1210 100 Ardmore, Okla.</b> Ardmorelta Pub. Co., Inc.	<b>VOWR 681 500 St. John's, Nfld.</b> Wesley United Church, Box 157
<b>KWBG 1420 100 Hutchinson, Kans.</b> W. B. Greenwald	<b>WAAB 1410 500 Boston, Mass.</b> 21 Brookline Ave.
<b>KWEA 1210 100 Shreveport, La.</b> Spring & Fannin Sts., Times Pub. Co.	<b>WAFF 920 500 Chicago, Ill.</b> Palmer House
<b>KWG 1200 100 Stockton, Calif.</b> Medico-Dental Bldg.	<b>WAAT 940 500 Jersey City, N. J.</b> Bremer Broadcasting Corp., 50 Journal Sq.
<b>KWJJ 1040 500 Portland, Ore.</b> 622 Salmon St.	<b>WAAW 660 500 Omaha, Neb.</b> Omaha Grain Exchange
<b>KWK 1350 1000 St. Louis, Mo.</b> Thomas Patrick, Inc., Hotel Chase	<b>WABC 860 50000 New York, N. Y.</b> 485 Madison Ave.
<b>KWKC 1370 100 Kansas City, Mo.</b> 3915 Main St.	<b>WABI 1200 100 Bangor, Maine</b> Community Brdstg. Service
<b>KWKH 1100 10000 Shreveport, La.</b> Spring & Fannin Sts., Times Pub. Co.	<b>WABY 1370 100 Albany, N. Y.</b> Hotel Ten Eyck
<b>KWLC 1270 100 Decorah, Iowa</b> Luther College	<b>WACO 1420 100 Waco, Texas</b> Amicable Bldg.
<b>KWSC 1220 1000 Pullman, Wash.</b> State College of Washington	<b>WADC 1320 1000 Akron, Ohio</b> Allen T. Simmons, P. O. Box 29
<b>KWTN 1210 100 Watertown, S. D.</b> Citizens Bank Bldg.	<b>WAGF 1370 100 Dothan, Ala.</b> P. O. Box 25
<b>KWTO 560 5000 Springfield, Mo.</b> KGBX Inc., St. Louis at Kimbrough	<b>WAGM 1420 100 Presque Isle, Me.</b> Aroostook Broadcasting Corp., Main St.
<b>KWYO 1370 100 Sheridan, Wyo.</b> Big John Brdstg. Co.	<b>WAIM 1200 100 Anderson, S. C.</b> Anderson College
<b>KXA 760 250 Seattle, Wash.</b> American Radio Tel. Co., 312 Bigelow Bldg.	<b>WAIU 640 500 Columbus, Ohio</b> Deshler-Wallick Hotel
<b>KXL 1420 100 Portland, Ore.</b> KXL Broadcasters, Multnomah Hotel	<b>WALA 1380 500 Mobile, Ala.</b> Fape Brdstg. Corp., P. O. Box 288
<b>KXO 1500 100 El Centro, Calif.</b> F. M. Bowles, Box 140	<b>WALR 1210 100 Zanesville, Ohio</b> First Trust & Savings Bank Bldg.
<b>KXXRO 1310 100 Aberdeen, Wash.</b> KXXRO, Inc., Hotel Morek	<b>WAML 1310 100 Laurel, Miss.</b> Southland Radio Corp., Box 26
<b>KXYZ 1440 1000 Houston, Texas</b> Gulf Building	<b>WAPI 1140 5000 Birmingham, Ala.</b> Protective Life Bldg.
<b>KYA 1230 1000 San Francisco, Calif.</b> 988 Market St.	<b>WARD 1400 500 Brooklyn, N. Y.</b> 427 Fulton St.
<b>KYW 1020 10000 Philadelphia, Pa.</b> 1622 Chestnut Street	<b>WASH 1270 500 Grand Rapids, Mich.</b> Grand Rapids Natl. Bank Bldg.
<b>NAA 690 1000 Arlington, Va.</b> United States Navy	<b>WATR 1190 100 Waterbury, Conn.</b> WATR Co. Inc., 47 Grand St.
<b>RDN 706 500 San Salvador, E. S.</b> Republic of El Salvador	<b>WAVE 940 1000 Louisville, Ky.</b> WAVE, Inc., 1525 Brown Hotel
<b>TGW 1210 10000 Guatemala, Gua.</b> 2227 Maquinaria 3389	<b>WAWZ 1350 500 Zarephath, N. J.</b> Pillar of Fire
<b>TGX 1400 250 Guatemala City</b>	<b>WAZL 1420 100 Hazleton, Pa.</b> Hazleton Broadcasting Service, Inc.
<b>TIEP 850 500 San Jose, C. R.</b>	<b>WBAA 890 1000 West Lafayette, Ind.</b> Purdue University
<b>TIFA 1050 75 San Jose, C. R.</b>	<b>WBAL 1060 10000 Baltimore, Md.</b> Lexington Bldg., Amer. Radio News Corp.
<b>TIFS 1441 7.5 Cartago, C. R.</b>	<b>WBAP 800 50000 Fort Worth, Texas</b> Ft. Worth Star-Telegram
<b>TIGA 1014 30 Cartago, C. R.</b>	<b>WBAX 1210 100 Wilkes-Barre, Pa.</b> John H. Stenger, Jr., 70 S. Main St.
<b>TIGH 1000 500 San Jose, C. R.</b>	<b>WBBC 1400 500 Brooklyn, N. Y.</b> 552-54 Atlantic Ave.
<b>TIRH 930 50 San Jose, C. R.</b>	<b>WBBL 1210 100 Richmond, Va.</b> 1627 Monument Ave.

## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>WBMM 770 50000</b> Chicago, Ill. 410 N. Michigan Ave.	<b>WCCO 810 50000</b> Minneapolis, Minn. Nicollet Hotel
<b>WBBR 1300 1000</b> Brooklyn, N. Y. 124 Columbia Heights	<b>WCFL 970 5000</b> Chicago, Ill. 666 Lake Shore Drive
<b>WBBZ 1200 100</b> Ponca City, Okla. C. L. Carrel, 407 W. South Ave.	<b>WCHS 580 500</b> Charleston, W. Va. WOBU, Inc., Ruffner Hotel
<b>WBCM 1410 500</b> Bay City, Mich. James E. Davison, Hotel Wenonah	<b>WCKY 1490 5000</b> Covington, Ky. 6th & Madison Sts.
<b>WBEN 900 1000</b> Buffalo, N. Y. WBEN, Inc., Hotel Statler	<b>WCO 1200 100</b> Janesville, Wis. 200 E. Milwaukee St.
<b>WBEO 1310 100</b> Marquette, Mich. 146 W. Washington St.	<b>WCLS 1310 100</b> Joliet, Ill. WCLS, Inc., 301 E. Jefferson St.
<b>WBIG 1440 500</b> Greensboro, N. C. O. Henry Hotel	<b>WCMI 1310 100</b> Ashland, Ky. Ashland Broadcasting Co., Box 106
<b>WBNO 1200 100</b> New Orleans, La. Hotel New Orleans	<b>WCNW 1500 100</b> Brooklyn, N. Y. Arthur Paske, 864-868 Flatbush Ave.
<b>WBNS 1430 500</b> Columbus, O. 33 N. High St.	<b>WCOA 1340 500</b> Pensacola, Fla. San Carlos Hotel
<b>WBNX 1350 250</b> New York, N. Y. 260 E. 161st St.	<b>WCOC 880 500</b> Meridian, Miss. Box 603
<b>WBNY 1370 100</b> Buffalo, N. Y. Roy L. Albertson	<b>WCOL 1210 100</b> Columbus, Ohio WCOL Inc., 33 N. High St.
<b>WBOQ 860 50000</b> New York, N. Y. Atlantic Broadcasting Corp.	<b>WCOP 1120 500</b> Boston, Mass. Joseph M. Kirby, Hotel Copley-Plaza
<b>WBOW 1310 100</b> Terre Haute, Ind. Banks of Wabash, Inc., 19 Beach Block	<b>WCPO 1200 100</b> Cincinnati, Ohio Continental Radio Co., Hotel Sinton
<b>WBRB 1210 100</b> Red Bank, N. J. 63 Broad St.	<b>WCRW 1210 100</b> Chicago, Ill. Clinton R. White, 2756 Pine Grove Ave.
<b>WBRC 930 1000</b> Birmingham, Ala. Bankhead Hotel	<b>WCSC 1360 500</b> Charleston, S. C. Francis Marion Hotel
<b>WBRE 1310 100</b> Wilkes-Barre, Pa. Louis G. Baltimore, 16 N. Main	<b>WCSH 940 1000</b> Portland, Me. Congress Square Hotel
<b>WBSO 920 500</b> Sabson Park, Mass. Drawer B	<b>WDAE 1220 1000</b> Tampa, Fla. Tampa Times Co., Tampa Terrace
<b>WBT 1080 50000</b> Charlotte, N. C. Station WBT, Inc., Wilder Bldg.	<b>WDAF 610 1000</b> Kansas City, Mo. 1729 Grand Ave.
<b>WBTM 1370 100</b> Danville, Va. Miller Bldg.	<b>WDAH 1310 100</b> El Paso, Texas Box 1976
<b>WBZ 990 50000</b> Boston, Mass. Hotel Bradford	<b>WDAS 1370 100</b> Philadelphia, Pa. WDAS Brdstg. Co., Inc., 1211 Chestnut St.
<b>WBZA 990 1000</b> Springfield, Mass. Hotel Kimball	<b>WDAY 940 1000</b> Fargo, N. D. WDAY, Inc., Black Bldg., 118 Broadway
<b>WCAC 600 500</b> Storrs, Conn. Connecticut State College	<b>WDBJ 930 1000</b> Roanoke, Va. Times World Corp., P. O. Box 150
<b>WCAD 1220 500</b> Canton, N. Y. St. Lawrence University	<b>WDBO 580 1000</b> Orlando, Fla. P. O. Box 1097
<b>WCAE 1220 1000</b> Pittsburgh, Pa. P. O. Box 1705	<b>WDEL 1120 250</b> Wilmington, Del. WDEL, Inc., 10th and King Sts.
<b>WCAL 1250 1000</b> Northfield, Minn. St. Olaf College	<b>WDEV 550 500</b> Waterbury, Vt. Harry C. Whitehill, Stowe St.
<b>WCAM 1280 500</b> Camden, N. J. City of Camden, City Hall	<b>WDGY 1180 1000</b> Minneapolis, Minn. Dr. Geo. W. Young, 909 W. Broadway
<b>WCAO 600 500</b> Baltimore, Md. 811 W. Lanvale St.	<b>WDNC 1500 100</b> Durham, N. C. Washington Duke Hotel
<b>WCAP 1280 500</b> Asbury Park, N. J. Convention Hall	<b>WDDO 1280 1000</b> Chattanooga, Tenn. WDDO Broadcasting Corp., Hotel Patten
<b>WCAT 1200 100</b> Rapid City, S. D. South Dakota State School of Mines	<b>WDRC 1330 1000</b> Hartford, Conn. WDRC, Inc., Corning Bldg., 11 Asylum St.
<b>WCAU 1170 50000</b> Philadelphia, Pa. WCAU Broadcasting Co., 1622 Chestnut	<b>WDSU 1250 1000</b> New Orleans, La. WDSU Inc., Hotel Monteleone
<b>WCAX 1200 100</b> Burlington, Vt. 203 College St.	<b>WDZ 1070 100</b> Tuscola, Ill. James L. Bush, Star Store Bldg.
<b>WCAZ 1070 100</b> Carthage, Ill. 97 1/2 Adams St.	<b>WEAF 660 50000</b> New York, N. Y. 30 Rockefeller Plaza
<b>WCBA 1440 500</b> Allentown, Pa. B. Bryan Musseiman, 39-41 10th St.	<b>WEAN 780 500</b> Providence, R. I. New Crown Hotel
<b>WCBD 1080 5000</b> Waukegan, Ill. Karcher Hotel	<b>WEBC 1290 1000</b> Superior, Wis. Spaulding Hotel, Duluth, Minn.
<b>WCBM 1370 100</b> Baltimore, Md. Keith Theatre Bldg.	<b>WEBQ 1210 100</b> Harrisburg, Ill. 100 E. Popular St.
<b>WCBS 1420 100</b> Springfield, Ill. WCBS, Inc., 208 1/2 S. 5th.	<b>WEBR 1310 100</b> Buffalo, N. Y. Howel Broadcasting Co., Inc., 23 North

## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>WEDC 1210</b>	<b>100</b>	<b>Chicago, Ill.</b>	<b>WGL 1370</b>	<b>100</b>	<b>Fort Wayne, Ind.</b>
Emil Denmark, 3860 Ogden Ave.			F. C. Zieg, 213 W. Main St.		
<b>WEED 1420</b>	<b>100</b>	<b>Rocky Mount, N. C.</b>	<b>WGN 720</b>	<b>50000</b>	<b>Chicago, Ill.</b>
Wm. Avera Wynne, Box 221			WGN, Inc., 435 N. Michigan Ave.		
<b>WEEI 590</b>	<b>1000</b>	<b>Boston, Mass.</b>	<b>WGNV 1210</b>	<b>100</b>	<b>Chester, N. Y.</b>
182 Tremont St.			Peter Goelet (Orange County)		
<b>WEEU 830</b>	<b>1000</b>	<b>Reading, Pa.</b>	<b>WGPC 1420</b>	<b>100</b>	<b>Albany, Ga.</b>
Berks Broadcasting Co., 533 Penn.			Rylander Theatre Bldg.		
<b>WEHC 1420</b>	<b>100</b>	<b>Charlottesville, Va.</b>	<b>WGR 550</b>	<b>1000</b>	<b>Buffalo, N. Y.</b>
P. O. Box 221			Rand Bldg.		
<b>WEHS 1420</b>	<b>100</b>	<b>Cicero, Ill.</b>	<b>WGST 890</b>	<b>500</b>	<b>Atlanta, Ga.</b>
WEHS, Inc., 6138 W. Cermak Rd.			Ansley Hotel		
<b>WELI 900</b>	<b>500</b>	<b>New Haven, Conn.</b>	<b>WGY 790</b>	<b>50000</b>	<b>Schenectady, N. Y.</b>
Patrick J. Goode			1 River Road		
<b>WELL 1420</b>	<b>100</b>	<b>Battle Creek, Mich.</b>	<b>WHA 940</b>	<b>1000</b>	<b>Madison, Wis.</b>
Enquirer News, 38 W. State St.			University of Wisconsin, Radio Hall		
<b>WEMP 1310</b>	<b>100</b>	<b>Milwaukee, Wis.</b>	<b>WHAM 1150</b>	<b>58000</b>	<b>Rochester, N. Y.</b>
Milwaukee Brdstg. Co.			100 Carlson Road		
<b>WENR 878</b>	<b>50000</b>	<b>Chicago, Ill.</b>	<b>WHAS 820</b>	<b>50000</b>	<b>Louisville, Ky.</b>
Merchandise Mart			300 W. Liberty St.		
<b>WESG 850</b>	<b>1000</b>	<b>Elmira, N. Y.</b>	<b>WHAT 1310</b>	<b>100</b>	<b>Philadelphia, Pa.</b>
Mark Twain Hotel			Public Ledger Bldg.		
<b>WEVD 1300</b>	<b>1000</b>	<b>New York, N. Y.</b>	<b>WHAZ 1300</b>	<b>500</b>	<b>Troy, N. Y.</b>
Jewish Daily Forward, Hotel Claridge			8th St.		
<b>WEW 760</b>	<b>1000</b>	<b>St. Louis, Mo.</b>	<b>WHB 860</b>	<b>1000</b>	<b>Kansas City, Mo.</b>
St. Louis University, 221 N. Grand Bldg.			WHB Broadcasting Co., Scarritt Bldg.		
<b>WEXL 1310</b>	<b>50</b>	<b>Royal Oak, Mich.</b>	<b>WHBB 1500</b>	<b>100</b>	<b>Selma, Alabama</b>
212 W. 6th St.			YMCA Bldg.		
<b>WFAA 800</b>	<b>50000</b>	<b>Dallas, Texas</b>	<b>WHBC 1200</b>	<b>100</b>	<b>Canton, Ohio</b>
Baker Hotel			Edw. P. Graham, 319 Tusc. St., W.		
<b>WFAB 1300</b>	<b>1000</b>	<b>New York, N. Y.</b>	<b>WHBF 1210</b>	<b>100</b>	<b>Rock Island, Ill.</b>
154 W. 57th St.			Hotel Harms		
<b>WFAM 1208</b>	<b>100</b>	<b>South Bend, Ind.</b>	<b>WHBI 1250</b>	<b>1000</b>	<b>Newark, N. J.</b>
South Bend Tribune, 225 W. Cofax Ave.			100 Shipman St.		
<b>WFAS 1210</b>	<b>100</b>	<b>White Plains, N. Y.</b>	<b>WHBL 1410</b>	<b>500</b>	<b>Sheboygan, Wis.</b>
Hotel Roger Smith			Press Publishing Co., Press Bldg.		
<b>WFBC 1300</b>	<b>1000</b>	<b>Greenville, S. C.</b>	<b>WHBQ 1370</b>	<b>100</b>	<b>Memphis, Tenn.</b>
Imperial Hotel			Brdstg. Sta. WNBQ, Inc., Hotel Claridge		
<b>WFBG 1310</b>	<b>100</b>	<b>Altoona, Pa.</b>	<b>WHBU 1218</b>	<b>100</b>	<b>Anderson, Ind.</b>
Gable Broadcasting Co., 12th Ave. & 13th St			Anderson Broadcasting Corp., Box 816		
<b>WFBL 1360</b>	<b>1000</b>	<b>Syracuse, N. Y.</b>	<b>WHBY 1200</b>	<b>100</b>	<b>Green Bay, Wis.</b>
Onondaga Hotel			WHBY, Inc., Bellin Bldg.		
<b>WFBM 1230</b>	<b>1000</b>	<b>Indianapolis, Ind.</b>	<b>WHDF 1370</b>	<b>100</b>	<b>Calumet, Mich.</b>
307 N. Pennsylvania St.			Box 643		
<b>WFBR 1270</b>	<b>500</b>	<b>Baltimore, Md.</b>	<b>WHDH 830</b>	<b>1000</b>	<b>Boston, Mass.</b>
7 St. Paul St.			Matheson Radio Co., 62 Boyiston		
<b>WFDF 1310</b>	<b>100</b>	<b>Flint, Mich.</b>	<b>WHDL 1420</b>	<b>100</b>	<b>Olean, N. Y.</b>
Union Industrial Bldg.			Exchange Natl. Bank Bldg.		
<b>WFEA 1340</b>	<b>500</b>	<b>Manchester, N. H.</b>	<b>WHEB 740</b>	<b>250</b>	<b>Portsmouth, N. H.</b>
Carpenter Hotel			Box 522, 39 Congress St.		
<b>WFIL 560</b>	<b>1000</b>	<b>Philadelphia, Pa.</b>	<b>WHEC 1430</b>	<b>500</b>	<b>Rochester, N. Y.</b>
WFIL Broadcasting Co., 801 Market			WHEC, Inc., 40 Franklin St.		
<b>WFLA 620</b>	<b>1000</b>	<b>Clearwater, Fla.</b>	<b>WHEF 1500</b>	<b>100</b>	<b>Kosciusko, Miss.</b>
Box 119			Box 631		
<b>WFMD 900</b>	<b>500</b>	<b>Frederick, Md.</b>	<b>WHFC 1420</b>	<b>100</b>	<b>Cicero, Ill.</b>
Francis Scott Key Hotel			WHFC, Inc., 6138 W. Cermak Road		
<b>WGAL 1500</b>	<b>100</b>	<b>Lancaster, Pa.</b>	<b>WHIO 1260</b>	<b>1000</b>	<b>Dayton, Ohio</b>
WGAL, Inc., 8 W. King St.			39 S. Ludlow St.		
<b>WGAR 1450</b>	<b>500</b>	<b>Cleveland, Ohio</b>	<b>WHIS 1410</b>	<b>250</b>	<b>Bluefield, W. Va.</b>
WGAR Broadcasting Co., Hotel Statler			Brand St.		
<b>WGBB 1210</b>	<b>100</b>	<b>Freeport, N. Y.</b>	<b>WHJB 620</b>	<b>250</b>	<b>Greensburg, Pa.</b>
H. H. Carman, 64 S. Grove St.			Penn-Albert Hotel, 128 Pa. Ave.		
<b>WGBF 630</b>	<b>500</b>	<b>Evansville, Ind.</b>	<b>WHK 1390</b>	<b>1000</b>	<b>Cleveland, Ohio</b>
519 Vine St.			1311 Terminal Tower		
<b>WGRI 880</b>	<b>500</b>	<b>Scranton, Pa.</b>	<b>WHN 1010</b>	<b>1000</b>	<b>New York, N. Y.</b>
1000 Wyoming Ave.			1540 Broadway		
<b>WGCM 1120</b>	<b>500</b>	<b>Mississippi City</b>	<b>WHO 1000</b>	<b>50000</b>	<b>Des Moines, Iowa</b>
Great Southern Golf Club, Box 207			Central Brdstg. Co., 914 Walnut St.		
<b>WGES 1360</b>	<b>500</b>	<b>Chicago, Ill.</b>	<b>WHOM 1450</b>	<b>250</b>	<b>Jersey City, N. J.</b>
4000 Washington Blvd.			2870 Hudson Boulevard		
<b>WGH 1310</b>	<b>100</b>	<b>Newport News, Va.</b>	<b>WHP 1430</b>	<b>500</b>	<b>Harrisburg, Pa.</b>
2813 Washington Ave.			WHIP, Inc., 216 Locust St.		

## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>WIBA</b> 1280 1000 Madison, Wis. 111 King St.	<b>WJTL</b> 1370 100 Atlanta, Ga. Volunteer Life Bldg.
<b>WIBG</b> 970 100 Glenside, Pa. Seaboard Radio Brdsg. Corp.	<b>WJW</b> 1210 100 Akron, Ohio WJW, Inc., 41 S. High St.
<b>WIBM</b> 1370 100 Jackson, Mich. WIBM, Inc., 306 W. Michigan Ave.	<b>WJZ</b> 760 50000 New York, N. Y. 30 Rockefeller Plaza
<b>WIBU</b> 1210 100 Poynette, Wis. Win. C. Forrest, R. F. D. No. 3	<b>WKAQ</b> 1240 1000 San Juan, P. R. Radio Corp. of Puerto Rico, Box 1414
<b>WIBW</b> 580 1000 Topeka, Kans. 11th & Topeka Blvd.	<b>WKAR</b> 1040 1000 East Lansing, Mich. Michigan State College
<b>WIBX</b> 1200 100 Utica, N. Y. WIBX, Inc., 1st Natl. Bank Bldg.	<b>WKBB</b> 1500 100 East Dubuque, Ill. Hotel Julien
<b>WICC</b> 600 500 Bridgeport, Conn. Stratfield Hotel	<b>WKBH</b> 1380 1000 LaCrosse, Wis. WKBH, Inc., 409 Main St.
<b>WIL</b> 1200 100 St. Louis, Mo. Melbourne Hotel	<b>WKBI</b> 1420 100 Cicero, Ill. WKBI, Inc., 6138 W. Cermak Road
<b>WILL</b> 890 250 Urbana, Ill. University of Illinois	<b>WKBN</b> 570 500 Youngstown, Ohio 17 N. Champion St.
<b>WILM</b> 1420 100 Wilmington, Del. 920 King St.	<b>WKBO</b> 1200 100 Harrisburg, Pa. Penn Harris Hotel
<b>WIND</b> 560 100 Gary, Ind. 504 Broadway	<b>WKBY</b> 1500 100 Richmond, Ind. Knox Radio Corp., Box 308
<b>WINS</b> 1180 1000 New York, N. Y. 114 E. 68th St., Hearst Radio, Inc.	<b>WKBW</b> 1490 5000 Buffalo, N. Y. Rand Bldg.
<b>WIOD</b> 1300 1000 Miami, Fla. News Tower, Biscayne Blvd.	<b>WKBZ</b> 1500 100 Muskegon, Mich. Occidental Hotel Bldg.
<b>WIP</b> 610 1000 Philadelphia, Pa. Gimbel Bldg., 9th & Chestnut Sts.	<b>WKEU</b> 1500 100 Griffin, Ga. Radio Station WKEU, 908 Hill St.
<b>WIRE</b> 1400 500 Indianapolis, Ind. 540 N. Meridian St.	<b>WKJC</b> 1200 100 Lancaster, Pa. 16 W. King St.
<b>WIS</b> 1010 500 Columbia, S. C. Station WIS, Inc., Box 635	<b>WKOK</b> 1210 100 Sunbury, Pa. 1150 N. Front St.
<b>WISN</b> 1120 250 Milwaukee, Wis. 123 W. Michigan St., Hearst Radio, Inc.	<b>WKRC</b> 550 1000 Cincinnati, Ohio WKRC, Inc., Hotel Alms
<b>WJAC</b> 1310 100 Johnstown, Pa. WJAC, Inc., Locust St.	<b>WKY</b> 900 1000 Oklahoma City, Okla. Plaza Court Bldg.
<b>WJAG</b> 1860 1000 Norfolk, Neb. Norfolk Daily News	<b>WKZO</b> 590 1000 Kalamazoo, Mich. John E. Fetzer, Burdick Hotel
<b>WJAR</b> 890 500 Providence, R. I. Outlet Co., Weybossett St.	<b>WLAC</b> 1470 5000 Nashville, Tenn. WLAC, Inc., 150-4th Ave., No.
<b>WJAS</b> 1290 1000 Pittsburgh, Pa. Chamber of Commerce Bldg.	<b>WLAP</b> 1420 100 Lexington, Ky. Main & Esplanade
<b>WJAX</b> 900 1000 Jacksonville, Fla. City of Jacksonville	<b>WLB</b> 1250 1000 Minneapolis, Minn. University of Minnesota
<b>WJAY</b> 610 500 Cleveland, Ohio 1224 Huron Road	<b>WLBC</b> 1310 50 Muncie, Ind. D. A. Burton, Anthony Bldg.
<b>WJBC</b> 1200 100 Bloomington, Ill. Kaskaskia Broadcasting Co.	<b>WLBF</b> 1420 100 Kansas City, Kans. 901 N. 8th Street
<b>WJBK</b> 1500 100 Detroit, Mich. 6659 Hamilton Ave.	<b>WLBL</b> 900 2500 Stevens Point, Wis. Fox Theater Bldg.
<b>WJBL</b> 1200 100 Decatur, Ill. Gushard Bldg.	<b>WLBZ</b> 620 500 Bangor, Me. Maine Broadcasting Co., Inc., 100 Ma'n Commerce Building
<b>WJBO</b> 1420 100 Baton Rouge, La. 334 Florida Street	<b>WLEU</b> 1420 100 Erie, Pa. Commerce Building
<b>WJBW</b> 1200 100 New Orleans, La. C. C. Carlson, Godechaux Bldg.	<b>WLLH</b> 1370 100 Lowell, Mass. Merrimac Brdsg. Co., Box D
<b>WJBY</b> 1210 100 Gadsden, Ala. Gadsden Broadcasting Co., 112 N. 8th St.	<b>WLNH</b> 1310 100 Laconia, N. H. 523 Main St.
<b>WJDX</b> 1270 1000 Jackson, Miss. Lamar Life Bldg.	<b>WLS</b> 870 50000 Chicago, Ill. 1230 W. Washington Blvd.
<b>WJEJ</b> 1210 100 Hagerstown, Md. Lovely Dame Bldg.	<b>WLTH</b> 1400 500 Brooklynn, N. Y. 105 2nd Ave., (N. Y. City)
<b>WJIM</b> 1210 100 Lansing, Mich. Capital City Brdsg. Co.	<b>WLVA</b> 1200 100 Lynchburg, Va. 915 Main St.
<b>WJJD</b> 1130 20000 Chicago, Ill. WJJD, Inc., 201 N. Wells St.	<b>WLW</b> 700 500000 Cincinnati, Ohio 1329 Arlington St.
<b>WJMS</b> 1420 100 Ironwood, Mich. WJMS, Inc., St. James Hotel	<b>WLWL</b> 1180 5000 New York, N. Y. 415 W. 59th St.
<b>WJR</b> 750 50000 Detroit, Mich. WJR, Inc., Fisher Bldg.	<b>WMAL</b> 630 250 Washington, D. C. 712-11th St., N. W.
<b>WJSV</b> 1460 10000 Washington, D. C. Earle Building	<b>WMAQ</b> 670 50000 Chicago, Ill. Merchandise Mart

## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>WMAS 1420</b> 100 Springfield, Mass. WMAS, Inc., 70 Chestnut St.	<b>WNRI 1200</b> 100 Newport, R. I. S. George Webb, 21 Bull St.
<b>WMAZ 1180</b> 1000 Macon, Ga. 211 Cotton Ave.	<b>WNYC 810</b> 1000 New York, N. Y. Centre & Duane Sts.
<b>WMBC 1420</b> 100 Detroit, Mich. 7310 Woodward Ave.	<b>WOAI 1190</b> 5000 San Antonio, Texas Southland Industries, Inc., 1038 Navarro
<b>WMBD 1440</b> 500 Peoria, Ill. 114 N. Madison St.	<b>WOC 1370</b> 100 Davenport, Iowa 1002 Brady Street
<b>WMBG 1210</b> 100 Richmond, Va. 914 W. Broad St.	<b>WOCL 1210</b> 50 Jamestown, N. Y. A. E. Newton, 840 N. Main St.
<b>WMBH 1420</b> 100 Jepfm, Mo. 1334 Roosevelt St.	<b>WOI 640</b> 5000 Ames, Iowa Iowa State College
<b>WMBI 1080</b> 5000 Chicago, Ill. 153 Institute Place	<b>WOKO 1430</b> 500 Albany, N. Y. WOKO, Inc., Hotel Ten Eyck
<b>WMBO 1310</b> 100 Auburn, N. Y. WMBO, Inc., Metcalf Bldg.	<b>WOL 1310</b> 100 Washington, D. C. American Broadcasting Co., Annapolis Hotel
<b>WMBO 1500</b> 100 Brooklyn, N. Y. Metropolitan Brdcastg. Corp., 95 Leonard St.	<b>WOMT 1210</b> 100 Manitowoc, Wis. Francis M. Kadow, Box 326
<b>WMBR 1370</b> 100 Jacksonville, Fla. F. J. Reynolds, Carling Hotel	<b>WOOD 1270</b> 500 Grand Rapids, Mich Grand Rapids Natl. Bank Bldg.
<b>WMC 780</b> 1000 Memphis, Tenn. WMC, Inc., Hotel Gayoso	<b>WOPI 1500</b> 100 Bristol, Tenn. 22nd & State Sts.
<b>WMCA 570</b> 500 New York, N. Y. 1697 Broadway	<b>WOR 710</b> 5000 Newark, N. J. 147 Market St.
<b>WMEX 1500</b> 100 Boston, Mass. The Northern Corp., Hotel Manger	<b>WORC 1280</b> 500 Worcester, Mass. Alfred F. Kleindienst, 60 Franklin St.
<b>WMFD 1370</b> 100 Wilmington, N. C. Hotel Wilmington	<b>WORK 1320</b> 1000 York, Pa. York Broadcasting Co., 15 S. Beaver St.
<b>WMFF 1310</b> 100 Plattsburg, N. Y. Hotel Cumberland	<b>WOS 630</b> 500 Jefferson City, Mo. State Highway Control, Capitol Bldg.
<b>WMFG 1210</b> 100 Hibbing, Minn. Head of the Lakes Brdcastg. Co.	<b>WOSU 570</b> 750 Columbus, Ohio Ohio State University
<b>WMFJ 1420</b> 100 Daytona Beach, Fla. W. Wright Esch	<b>WOV 1130</b> 1800 New York, N. Y. 132 West 43rd St.
<b>WMFN 1210</b> 100 Clarksdale, Miss. Attala Brdcastg. Corp., Box 180	<b>WOW 590</b> 1000 Omaha, Neb. Woodmen of the World, 4th and Farnam
<b>WMFO 1370</b> 100 Decatur, Ala. James R. Doss, Jr.	<b>WOWO 1150</b> 10000 Fort Wayne, Ind. Main Auto Supply Co., 213 W. Main
<b>WMFR 1200</b> 100 High Point, N. C. Hart & Nelson	<b>WPAD 1420</b> 100 Paducah, Ky. 2201 Broadway
<b>WMMN 890</b> 500 Fairmount, W. Va. West Va. Brdcastg. Corp., 208 Main St.	<b>WPAR 1420</b> 100 Parkersburg, W. Va. Chancellor Hotel
<b>WMPC 1200</b> 100 Lapeer, Mich. 13 Liberty St.	<b>WPAX 1210</b> 250 Thomasville, Ga. H. Wimpy, 135 E. Jackson St.
<b>WMT 600</b> 1000 Cedar Rapids, Iowa Hotel Montrose	<b>WPAY 1370</b> 100 Portsmouth, Ohio Veebee Corp.
<b>WNAC 1230</b> 1000 Boston, Mass. 21 Brookline Ave.	<b>WPEN 920</b> 250 Philadelphia, Pa. 22nd & Walnut Sts.
<b>WNAD 1010</b> 1000 Norman, Okla. University of Oklahoma	<b>WPFB 1370</b> 100 Hattiesburg, Miss. Forest Brdcastg. Co., 512 Main St.
<b>WNAX 570</b> 1000 Yankton, S. D. House of Gurney, Inc., 2nd and Capital St.	<b>WPG 1100</b> 5000 Atlantic City, N. J. City of Atlantic City, Convention Hall
<b>WNBC 1380</b> 250 New Britain, Conn. Wm. J. Sanders, 147 Main St.	<b>WPHR 880</b> 500 Petersburg, Va. WLBG, Inc., Medical Arts Bldg.
<b>WNBK 1500</b> 100 Binghamton, N. Y. Arlington Hotel	<b>WPRO 630</b> 250 Providence, R. I. Cherry & Webb Brdcastg. Co., 15 Chestnut
<b>WNBH 1310</b> 100 New Bedford, Mass. 251 Union St.	<b>WPRP 1420</b> 100 Pence, P. R. Julio M. Conesa
<b>WNBR 1430</b> 500 Memphis, Tenn. Memphis Broadcasting Co., Hotel DeVoy	<b>WPTF 680</b> 5000 Raleigh, N. C. 324 Fayetteville St.
<b>WNBX 1260</b> 1000 Springfield, Vt. WNBX Broadcasting Corp., 39 Main St.	<b>WQAM 560</b> 1000 Miami, Fla. Miami Brdcastg. Co., Inc., 327 N. E. 1st Ave.
<b>WNBZ 1290</b> 100 Saranac Lake, N. Y. Smith & Mace, 70 Broadway	<b>WQAN 880</b> 250 Scranton, Pa. Scranton Times, 149 Penn Ave.
<b>WNEL 1290</b> 500 San Juan, P. R. Box 1262	<b>WQBC 1360</b> 1000 Vicksburg, Miss. Delta Broadcasting Co., Hotel Vicksburg
<b>WNEW 1250</b> 1000 Newark, N. J. Wodaam Corp., 100 Shipman St.	<b>WQDM 1370</b> 100 St. Albans, Vt. 42 N. Main St.
<b>WNOX 560</b> 1000 Knoxville, Tenn. WNOX, Inc., Hotel Andrew Johnson	<b>WRAK 1370</b> 100 Williamsport, Pa. WRAK, Inc., 244 W. 4th St.
<b>WNRA 1420</b> 100 Muscle Shoals, Ala. P. O. Box 466, Sheffield, Ala.	<b>WRAW 1310</b> 100 Reading, Pa. Reading Broadcasting Co., 533 Penn St.

## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>WRAX 320 250 Philadelphia, Pa.</b> WRAX Broadcasting Co., 217 B. Broad St.	<b>WSYV 1500 100 Rutland, Vt.</b> Philip Weiss Music Co., Box 328
<b>WRBL 1200 100 Columbus, Ga.</b> Royal Theatre Bldg.	<b>WSYR 570 250 Syracuse, N. Y.</b> 315 Starret-Syracuse Bldg.
<b>WRC 950 500 Washington, D. C.</b> National Press Bldg.	<b>WTAD 900 500 Quincy, Ill.</b> Illinois Brdcastg. Corp., State and 6th
<b>WRDO 1370 100 Augusta, Me.</b> WRDO, Inc., Augusta House	<b>WTAG 580 500 Worcester, Mass.</b> 18 Franklin St.
<b>WRDW 1500 100 Augusta, Ga.</b> Augusta Brdcastg. Co., 309 8th St.	<b>WTAL 1310 100 Tallahassee, Fla.</b> Florida Capitol Broadcasters, Inc.
<b>WREC 600 1000 Memphis, Tenn.</b> WREC, Inc., Hotel Peabody	<b>WTAM 1070 50000 Cleveland, Ohio</b> 1367 E. 6th St.
<b>WREN 1220 1000 Lawrence, Kans.</b> WREN Brdcastg. Co., 7th and Vermont St.	<b>WTAQ 1330 1000 Eau Claire, Wis.</b> WHBY Inc., Hotel Eau Claire
<b>WRGA 1500 100 Rome, Ga.</b> 10 Third Ave.	<b>WTAR 780 500 Norfolk, Va.</b> WTAR Radio Corp., Bank of Com. Bldg.
<b>WRJN 1370 100 Racine, Wis.</b> Racine Broadcasting Corp., Hotel Racine	<b>WTAW 1120 500 College Station, Tex.</b> Agricultural and Mechanical College
<b>WROK 1410 500 Rockford, Ill.</b> 109 So. Water St.	<b>WTAX 1210 100 Springfield, Ill.</b> WTAX, Inc., 416 E. Capitol Ave.
<b>WROL 1310 100 Knoxville, Tenn.</b> Stuart Broadcasting Corp., 524 S. Gay	<b>WTBO 800 250 Cumberland, Md.</b> Associated Brdcastg. Corp., Box 794
<b>WRR 1280 500 Dallas, Texas</b> City of Dallas, Southland Life Bldg.	<b>WTCN 1250 1000 Minneapolis, Minn.</b> Wesley Temple Bldg.
<b>WRUF 830 5000 Gainesville, Fla.</b> State University	<b>WTEL 1310 100 Philadelphia, Pa.</b> 3701 N. Broad Street
<b>WRVA 1110 5000 Richmond, Va.</b> Larus & Bros Co., Inc., 22nd and Gary St.	<b>WTFI 1450 500 Athens, Ga.</b> Liberty Brdcastg. Co., 133 E. Washington St.
<b>WSAI 1330 1000 Cincinnati, Ohio</b> Crosley Radio Corp., 1329 Arlington	<b>WTIC 1040 50000 Hartford, Conn.</b> 26 Grove St.
<b>WSAJ 1310 100 Grove City, Pa.</b> Grove City College, 418 Poplar St.	<b>WTJS 1310 100 Jackson, Tenn.</b> Sun Publishing Co., Sun Bldg.
<b>WSAN 1440 500 Allentown, Pa.</b> WSAN, Inc., 39 10th St.	<b>WTMJ 620 1000 Milwaukee, Wis.</b> The Journal Co., 333 W. State St.
<b>WSAR 1450 250 Fall River, Mass.</b> Academy of Music Bldg.	<b>WTMV 1500 100 East St. Louis, Ill.</b> Mississippi Valley Brdcastg. Co.
<b>WSAZ 1190 1000 Huntington, W. Va.</b> WSAZ, Inc., P. O. Box 729	<b>WTNJ 1280 500 Trenton, N. J.</b> Trenton Brdcastg. Co., Stacy Trent Hotel
<b>WSB 740 50000 Atlanta, Ga.</b> Atlanta Journal, 7 N. Forsyth St.	<b>WTOC 1260 1000 Savannah, Ga.</b> Savannah Brdcastg. Co., De Soto Hotel
<b>WSBC 1210 100 Chicago, Ill.</b> Gene T. Dyer, 1258 S. Michigan Ave.	<b>WTRC 1310 50 Elkhart, Ind.</b> Truth Pub. Co., Inc., Hotel Elkhart
<b>WSBT 1360 500 South Bend, Ind.</b> South Bend Tribune, 225 W. Colfax Ave.	<b>WVFW 1400 500 Brooklyn, N. Y.</b> Paramount Brdcastg. Co., 4 & 5 Court Sq.
<b>WSFA 1410 500 Montgomery, Ala.</b> Jefferson Davis Hotel	<b>WWAE 1200 100 Hammond, Ind.</b> 402 Hammond Bldg.
<b>WSGN 1310 100 Birmingham, Ala.</b> Tutwiler Hotel	<b>WWC 1420 1000 Spartanburg, S. C.</b> Virgil V. Evans, Ravenal & Avant St.
<b>WSIX 1210 100 Springfield, Tenn.</b> 638 Tire & Vulcanizing Co.	<b>WWJ 920 1000 Detroit, Mich.</b> Evening News Assn., 616 Lafayette Blvd.
<b>WSJS 1310 100 Winston-Salem, N. C.</b> Winston-Salem Journal Co., 416 N. Marshall	<b>WWL 850 10000 New Orleans, La.</b> Loyola University, Roosevelt Hotel
<b>WSM 650 50000 Nashville, Tenn.</b> 301-7th Ave. No.	<b>WWNC 570 1000 Asheville, N. C.</b> Citizen Brdcastg. Co., Inc., Flatiron Bldg.
<b>WSMB 1320 500 New Orleans, La.</b> WSMB, Inc., Maison Blanche Bldg.	<b>WWRL 1500 100 Woodside, N. Y.</b> 41-30-58th St.
<b>WSMK 1380 200 Dayton, Ohio</b> WSMK, Inc., 121 N. Main St.	<b>WWSW 1500 100 Pittsburgh, Pa.</b> Hotel Keystone
<b>WSOC 1210 100 Charlotte, N. C.</b> WSOC, Inc., 516 W. Trade St.	<b>WWVA 1160 5000 Wheeling, W. Va.</b> Hawley Bldg.
<b>WSPA 920 1000 Spartanburg, S. C.</b> Virgil V. Evans, Ravenel and Avant St.	<b>WXYZ 1240 1000 Detroit, Mich.</b> Macabees Bldg.
<b>WSPD 1340 1000 Toledo, Ohio</b> Toledo Broadcasting Co., 505 Jefferson	<b>W1XB5 1530 1000 Waterbury, Conn.</b> 61 Leavenworth St., Amer. Republican, Inc.
<b>WSUI 880 500 Iowa City, Iowa</b> State University of Iowa	<b>W2XR 1550 1000 Long Island City, N. Y.</b> Scientific Brdcastg. Serv., 41 Park Row, N. Y.
<b>WSUN 620 1000 St. Petersburg, Fla.</b> Recreation Pier	<b>W6XA1 1550 1000 Bakersfield, Calif.</b> Pioneer Mercantile Co.
<b>WSVA 550 500 Harrisonburg, Va.</b> Main & Market Sts.	<b>W9XB1 1530 1000 Kansas City, Mo.</b> 106 West 14th St.
<b>WSVS 1370 50 Buffalo, N. Y.</b> 686 E. Delavan Ave.	<b>XEA 1060 125 Guadalajara, Jal.</b> Alberto Palos Souza, Apdo. 197

## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>XEAA 920 200 Mexicali, B. C.</b> P. O. Box 714 (Calxico, Calif.)	<b>XEMO 860 5000 Tijuana, B. C.</b> P. O. Box 202, San Diego, Calif.
<b>XEAF 990 500 Negales, Son.</b> Francisco G. Elias, Hotel Central	<b>XEMX 1280 12 Mexico City, D. F.</b> Alfonzo T. Avales, Salamanca 87
<b>XEAI 1240 100 Mexico City, D. F.</b> Carlos Gonzales Caballero, Insurgentes 369	<b>XEMZ 1210 250 Tijuana, L. C.</b> Ave. "D" No. 542
<b>XEAJ 1310 15 Oaxaca, Oax.</b> Enrique M. Cribuela, 3a, Gurrero 18	<b>XEN 710 1000 Mexico City, D. F.</b> Cerveceria Modelo Ave. Juarez 77
<b>XEAM 750 7.5 Matamores, Tams.</b> Edificio Banco Longoria	<b>XENT 910 65000 Nuevo Laredo, Tams.</b> Box 410, Laredo, Texas
<b>XEAO 560 250 Mexicali, B. C.</b> Luis L. Castro, C. Altamirano 156	<b>XEOK 760 250 Tijuana, L. C.</b> Carlos de la Sierra, Calle 5a 312
<b>XEAW 960 50000 Reynosa, Tams.</b> Apartado No. 6	<b>XEOX 640 250 Saltillo, Coah.</b> Victoria No. 4, Altos
<b>XEAZ 1420 7 Guanajuato, Gto.</b> Antonio Zavala, Pasco de la Presa 85	<b>XEP 840 500 Mexico City, D. F.</b> Cia Difusora de Mexico S. A., Rembrandt 11
<b>XEB 1030 10000 Mexico City, D. F.</b> El Buen Tono, S. A., Apdo. 79-44	<b>XEPN 590 50000 Piedras Negras, Coah.</b> Piedras Negras Brdstg. Co., Box 360
<b>XEC 1160 30 Tijuana, B. C.</b> Luis F. Enciso, Teatro Zaragoza	<b>XES 990 250 Tampico, Tams.</b> Fernando Sada, Box 309
<b>XECW 1310 10 Mexico City, D. F.</b> Maria Elena Bravode Cordero Ave. Juarez 104	<b>XET 690 500 Monterrey, N. L.</b> P. O. Box 203, Hidalgo
<b>XED 1155 2500 Guadalajara, Jal.</b> Cia. Radiofonografica, Apdo. 197	<b>XETB 1310 125 Terrenos, Coah.</b> P. O. Box 225
<b>XEE 1210 50 Durango, Dgo.</b> 20 de Nov. 112 (Apdo. 148)	<b>XETF 1220 12 Veracruz, Ver.</b> Jose M. Lopez, Independencia 25
<b>XEFA 1180 500 Mexico City, D. F.</b> Eduardo Limon Segui, Meditarraneo 236	<b>XETH 1210 100 Puebla, Pue.</b> Ramon Huerta G., Calle 17, Oriente 11
<b>XEFB 1420 100 Monterrey, N. L.</b> Jesus Quintanilla, P. O. Box 317	<b>XETW 820 500 Mexico City, D. F.</b> Rafael M. Pena, Ave. 16 de Sep. 83
<b>XEFC 560 100 Merida, Yuc.</b> J. Molina Font, Calle 59, 517	<b>XEU 1010 250 Veracruz, Ver.</b> Fernando Pazos Sosa, Independencia 98
<b>XEFE 850 250 Laredo, Tams.</b> R. T. Carranza, Km. 4 Carretera Laredo Mt.	<b>XEW 890 50000 Mexico City, D. F.</b> P. O. Box 2516
<b>XEFI 1440 250 Chihuahua, Chih.</b> Feliciano Lopez Isles, Ap. 157	<b>XEWZ 1150 100 Mexico City, D. F.</b> P. O. Box 291
<b>XEFJ 1230 100 Monterrey, N. L.</b> R. Junco de la Vega, P. O. Box 186	<b>XEX 1310 125 Monterrey, N. L.</b> L. F. Petit Jean, P. O. Box 10
<b>XEFO 940 5000 Mexico City, D. F.</b> Reforma No. 137	<b>XEY 1000 10 Merida, Yuc.</b> Calle 64, Numero 568
<b>XEFV 1210 100 Jaurez, Chih.</b> Cordova & Prieto, Ave. Ferrocarril 104	<b>XEYZ 780 10000 Mexico City, D. F.</b> Angel M. Diez, Ave. Juarez 48
<b>XEFW 1310 250 Tampico, Tams.</b> J. E. Martinez, Salvador Diaz Miron 6	<b>XEZ 630 500 Merida, Yuc.</b> Jorge L. Falomeque, Estadores Ctd 214
<b>XEFZ 1370 100 Mexico City, D. F.</b> Manuel Zetina, Cedro & Nonoale No. 344	<b>XZZ 1370 100 San Luis Potosi, SLP</b> Emilio Delgado R. Ave. Chicosein 32
<b>XEG 1270 200 Ensenada, B. C.</b> Juan C. Chavez	<b>XFA 1310 5 Aguascalientes, Ags.</b> A. Postal 92
<b>XEH 1150 250 Monterrey, N. L.</b> Tarnava y Cia, P. O. Box 147	<b>XFB 1270 250 Jalapa, Ver.</b> Gobierno del Estado de Veracruz
<b>XEI 1370 125 Morelia, Mich.</b> Carlos Gutierrez M., F. I. Madero 545	<b>XFC 810 350 Aguascalientes, Ags.</b> Gobierno del Estado de Aguascalientes
<b>XEJ 1020 1000 Juarez, Chih.</b> Juan G. Buttner, P. O. Box 111	<b>XFD 1340 350 Jalapa, Ver.</b> Gobierno Estado de Veracruz
<b>XEK 990 100 Mexico City, D. F.</b> Arturo Martinez, Jalapa No. 51	<b>XFO 940 5000 Mexico City, D. F.</b> Nat. Rev. Party, Ave. Morelos 110
<b>XEKL 1240 500 Leon, Guan.</b> 5 de Mayo 26	<b>XFX 610 1000 Mexico City, D. F.</b> Secretaria de Educacion Publica
<b>XEL 1100 250 Mexico City, D. F.</b> Calzada del Rosel No. 1	<b>YNLF 1275 20 Managua, Nicaragua</b>
<b>XELA 1240 50 Saltillo, Coah.</b> Enrique Gomez, Chauhtemos 28 Sur	<b>YNOP 1230 100 Managua, Nicaragua</b>
<b>XELO 1110 10000 Piedras Negras, Coah.</b> Piedras Negras Brdstg. Co.	<b>YNVA 950 30 Managua, Nicaragua</b>
<b>XEMA 1080 50 Tampico, Tams.</b> Manuel M. Pier, Arceasnos 10	

*In the December issue, the foreign broadcasting stations will be listed. The Short Wave stations will appear again in January.*

# AROUND the CLOCK on the SHORT WAVES

MIDNIGHT TO NOON (EST)

GMT	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00
AST	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
EST	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
CST	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
MST	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
PST	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
	DJA DJN JVH VFD VK2ME W3XAL W3XK	DJA DJN GSB GSD VPD VK2ME W3XAL W9XF	GSD W9XF	DJB DJN GSB PCJ VK3LR RV15	DJB DJN JVM RV15 VK2ME VK3LR	DJB DJN HVJ JVM LKJ1 PCJ RV15 VK2ME VK3LR VK3ME	DJB DJN GSF GSG JVM LKJ1 RNE RV15 VK2ME VK3LR W8XAL	GSG GSG JVM LKJ1 PCJ PHI RNE Pont. RNE VK2ME VK3LR W1XK W8XK	DJA DJB DJE GSG GSG PCJ PHI Pont. RNE VK2ME W1XK W8XK	DJA DJB DJE DJQ GSG GSG HAS3 PCJ PHI Pont. RNE VE9CA W1XK W8XK	DJA DJB DJE DJQ GSG GSG HVJ PCJ PHI Pont. RNE W1XK W3XAL W8XK W9XAA	DJA DJE DJQ GSG GSG Pont. W1XK W2XE W3XL W8XK W9XAA

NOON TO MIDNIGHT (EST)

GMT	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	1:00	2:00	3:00	4:00
AST	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
EST	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
CST	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
MST	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
PST	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
	DJC DJD EAQ G8B G8D ORK Pont. W1XK W2XE W3XAU W3XAL W8XK W9XAA	DJC DJD EAQ G8B G8D ORK Pont. VE9CA W3XAU W3XK W9XAA	DJC DJD G8B GSD VE9CA W1XK W2XAL W3XAU W3XK W9XAA	CJRO CJRX DJC DJD G8B GSD W1XK W2XE W3XAL W3XAU W3XK W9XAA	CJRO CJRX CT1AA DJC DJD G8B G8D G8F HIH Pont. VE9CA W1XK W2XE W3XAU W3XK W9XAA	CJRO CJRX COCO CRCX CT1AA DJA DJD DJN DJN EAQ GSC GSD HAT4 HP5B HJ1ABB IRA W8XK W9XAA XEBT YV3RC	CJRO CJRX COCO CRCX CT1AA DJA DJD DJN DJN GSC GSD HJ1ABB HJ1ABG W1XAL W1XK W2XAF W2XAF W1XAL W1XK W3XAU W9XAA W9XAA XEBT XECR YV2RC YV3RC YV4RC YV5RMO	CJRO CJRX COCO CRCX DJA DJD DJN DJN GSC GSD HC2RL HJ1ABB HP5B HJ1ABG W1XAL W1XK W2XAF W2XE W3XAU W8XK W9XAA YV2RC YV3RC YV4RC YV6RMO	CEC CJRO CJRX COCO COCX COCX CRCX DJA DJD DJN DJN HLX HJ1ABB HP5B TIEP W1XAL W1XK W2XAF W2XE W3XAU W8XK W9XAA YV2RC YV3RC YV4RC YV6RMO	CJRO CJRX COCO COCX COCX CRCX DJA DJD DJN DJN HCJB HC2ET HC2RL HLX HJ1ABB HP5B OAX4D PRADO TIGPH W1XK W2XAF W2XE W3XAU W8XK W9XAA YV2RC YV3RC YV4RC YV5RMO	CJRO CJRX COCO COCX CRCX DJA DJD G8C G8L HC2RL HC2ET OAX4D PRADO W1XK W2XAF W2XE W3XAU W8XK W9XAA XEBT	CJRO CJRX COCO CRCX HJ4ABL W1XK W3XAU W8XK W9XAA W9XF

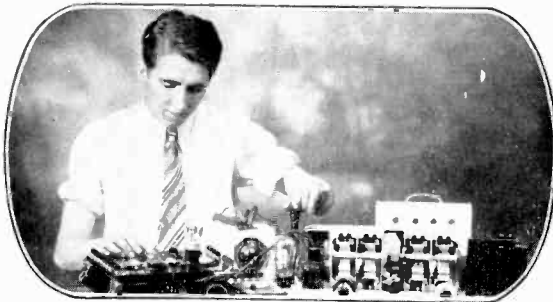


# BEST SHORTWAVE BROADCASTING STATIONS BY CALL LETTERS

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.
COCD, 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.	HJ1ABB, 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.	HJ1ABD, Cartagena, Colombia, 7.280. 1945-2115.
CO9GC, Santiago, Cuba, 6.150. Sun., 0000-0200.	GSE, Daventry, England, 11.860. 1100-1200.	HJ1ABE, Cartagena, Colombia, 6.115. Sun. at 0100; Mon., 2200-2400; Wed., 2. 0-2200.
CO9JQ, Camaguey, Cuba, 8.665.	GSF, Daventry, England, 15.140. 0900-1200; 1615-1745; 0600-0845.	HJ1ABG, Barranquilla, Colombia, 5.042. 1900-2200.
CO9WR, Sancti-Spiritus, Cuba, 11.800.	GSG, Daventry, England, 17.710. 0900-1045; 0600-0845.	HJ1ABH, Cienaga, 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.	HJ3ABD, 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.	HJ3ABF, 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.	HCJB, Quito, Ecuador, 8.214. Daily exc. Mon., 1915-2315.	HJ4ABC, Pereira, Colombia, 6.230. 1900-2000.
DJE, Berlin, Germany, 17.760.	HC2ET, Guayaquil, Ecuador, 4.600. Wed. Sat. 2130-2300.	HJ4ABE, Medellin, Colombia, 15.000.

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, 6.590. 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, 14.040. 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.  
 TIIPG, 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.  
 W1NAL, Boston, Mass., 11.790. Tues., Thurs., Sun., 1830-2030.  
 W1NK, 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.  
 XECHR, 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.  
 , Pontoise, France, 11.720. 1800-2100; 2200-2400. 11.880: 1015-1315; 1400-1700. 15.250:



*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 .....

Address .....

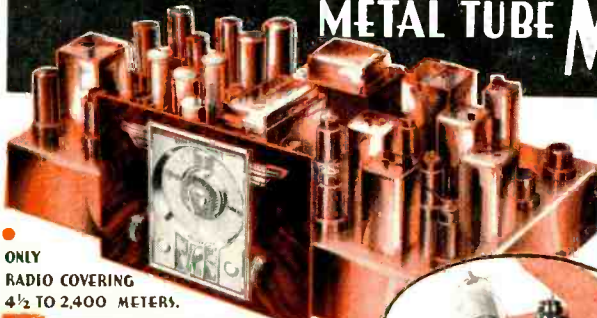
City ..... State .....

14X1

SAVE UP TO 50% by BUYING YOUR RADIO *Direct from* MIDWEST LABORATORIES

Glorious Tone Realism.. World-Wide Entertainment Guaranteed!  
with New 1936 SUPER *Deluxe*

# METAL TUBE MIDWEST



ONLY  
RADIO COVERING  
4½ TO 2,400 METERS.

**30 Days FREE Trial!**

**PUSH-BUTTON TUNING**  
(Noises Suppressed)

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.

**Acousti-Tone V-Spread Design**  
(Patent Pending)

Establishes new radio style overtop! The Vibrant 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 lacwork of the "hugs" 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.

**FULL SCOPE HIGH FIDELITY**  
Brilliant  
(Patent Pending)

**CONCERT TONE**  
Now, get complete range of audible frequencies from 30 to 16,000 cycles, being transmitted by four new High Fidelity Broadcasting stations—WJMS, WQBY, W2XR and W4XAL. Midwest's new Glorious new Acousti-tone is achieved... assuming life-like, crystal clear "concert" realism.

**V-FRONT**



**18 TUBE  
RADIO  
6 TUNING RANGES**

**WORLD'S GREATEST RADIO-VALUE**  
**59.50** with New GIANT THEATRE-SONIC SPEAKER  
(LESS TUBES)

**TERMS AS LOW AS \$5.00 DOWN**

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 Denney, Ted Fio Rito, and others use Midwest sets to study types of harmony and rhythmic beats followed by leading American and Foreign orchestras.

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Scores of marvelous features, many exclusive, explain Midwest super performance and thrilling world-wide all-wave reception. 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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**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 see either the new METAL tubes or glass/ceramic counterpart tubes. Octal sockets and new wiring permit use of either type... just as well.

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