

THE MAY, 1935

# RADIO INDEX

THE ALL-WAVE RADIO MAGAZINE



25<sup>c</sup>

More than 130 Changes in this Issue  
Do You Want More Educational  
Programs?

The Network Programs on Short Waves  
A Brand New Idea in Set Building

No. 89

# THE MONTH'S CHANGES

## FREQUENCIES

560 WNOX Knoxville, Tenn., from 1010  
 580 WILL Urbana, Ill., from 890  
 600 CMW Havana, Cuba, from 930  
 640 CMBY Havana, Cuba, from 635  
 660 CMCX Havana, Cuba, from 865  
 680 CMCQ Havana, Cuba, from 610  
 730 CMAF Havana, Cuba, from 680  
 750 CMCW Havana, Cuba, from 755  
 760 CMJK Camaguey, Cuba, from 790  
 770 CMBS Havana, Cuba, from 775  
 790 CMOA Havana, Cuba, from 1175  
 810 CMHW Cienfuegos, Cuba, from 910  
 815 CMCF Havana, Cuba, from 610  
 890 KSEI Pocatello, Idaho, from 900  
 900 WTAD Quincy, Ill., from 1440  
 920 CMX Havana, Cuba, from 928  
 940 CMBC Havana, Cuba, from 1035  
 960 CMCD Havana, Cuba, from 955  
 1000 CMBZ Havana, Cuba, from 1005  
 1010 CMJG Camaguey, Cuba, from 1050  
 1010 XEU Veracruz, Ver., from 1160  
 1010 WIS Columbia, S. C., from 560  
 1010 XEAF Nogales, Son., from 540  
 1030 CMCY Havana, Cuba, from 1100  
 1060 CMK Havana, Cuba, from 725  
 1065 VOAC St. John's, Nfld., from 1300  
 1070 CMHA Sagua la Grande, Cuba, from 1103  
 1110 CMCO Havana, Cuba, from 1280  
 1120 CMGF Matanzas, Cuba, from 971  
 1130 CMJI Ciego de Avila, from 1210  
 1140 CMBG Havana, Cuba, from 1150  
 1150 CMJF Camaguey, Cuba, from 930  
 1170 CMBD Havana, Cuba, from 1350  
 1180 CMHJ Cienfuegos, Cuba, from 1125  
 1180 CMJO Ciego de Avila, Cuba, from 1010  
 1210 CMHI Santa Clara, Cuba, from 1037  
 1220 CMJE Camaguey, Cuba, from 1170  
 1230 CMCB Havana, Cuba, from 1060  
 1240 CMHB San Spiritus, Cuba, from 1245  
 1250 CMKC Santiago, Cuba, from 1034  
 1255 CMCQ Havana, Cuba, from 1125  
 1270 CMHD Caibarien, Cuba, from 950  
 1280 CMCU Havana, Cuba, from 1255  
 1320 CMOX Havana, Cuba, from 1325  
 1320 KRNT Des Moines, Iowa, from 1430  
 1330 CMHK Cruces, Cuba, from 1225  
 1350 CMCA Havana, Cuba, from 1230  
 1360 CMJH Ciego de Avila, Cuba, from 1150  
 1370 CMGE Cardenas, Cuba, from 1375  
 1380 CMBX Havana, Cuba, from 1435  
 1410 CMCR Havana, Cuba, from 1400  
 1420 CMGI Colon, Cuba, from 1094  
 1420 WCBS Springfield, Ill., from 1210  
 1430 CMJP Moron, Cuba, from 1360  
 1460 CMKF Holquin, Cuba, from 1363  
 1470 CMOK Havana, Cuba, from 1230  
 1470 KGA Spokane, Wash., from 900

## POWER

550 CFNB Fredericton, N. B., 500 to 1000  
 580 KMJ Fresno, Calif., 500 to 1000  
 580 WILL Urbana, Ill., 250 to 1000  
 600 CMW Havana, Cuba, 1400 to 100  
 600 WICC Bridgeport, Conn., 1000 to 500  
 610 WIP Philadelphia, Pa., 1000 to 500  
 640 CMBY Havana, Cuba, 250 to 125  
 660 CMCX Havana, Cuba, 150 to 250  
 680 CMCQ Havana, Cuba, 1000 to 250  
 710 WOR Newark, N. J., 5000 to 50000  
 730 CMAF Havana, Cuba, 1000 to 250  
 750 CMCW Havana, Cuba, 150 to 117  
 770 CMBS Havana, Cuba, 150 to 130

770 KFAB Lincoln, Neb., 5000 to 10000  
 790 CMOA Havana, Cuba, 500 to 72  
 840 CMQ Havana, Cuba, 5000 to 500  
 920 CMX Havana, Cuba, 1000 to 650  
 940 CMBY Havana, Cuba, 150 to 195  
 960 CMCD Havana, Cuba, 500 to 180  
 1000 CMBZ Havana, Cuba, 100 to 120  
 1030 CMCY Havana, Cuba, 500 to 1000  
 1060 CMK Havana, Cuba, 3150 to 1500  
 1130 CMJI Ciego de Avila, Cuba, 150 to 45  
 1140 CMBG Havana, Cuba, 225 to 325  
 1170 CMBD Havana, Cuba, 150 to 163  
 1180 CMHJ Cienfuegos, Cuba, 40 to 100  
 1200 CMCJ Havana, Cuba, 400 to 500  
 1230 CMCB Havana, Cuba, 150 to 112  
 1255 CMCQ Havana, Cuba, 150 to 162  
 1320 CMGX Havana, Cuba, 200 to 250  
 1320 KGMB Honolulu, Hawaii, 250 to 1000  
 1320 KRNT Des Moines, Iowa, 250 to 500  
 1320 WSMB New Orleans, La., 500 to 1000  
 1330 CMHK Cruces, Cuba, 50 to 250  
 1350 CMCA Havana, Cuba, 150 to 435  
 1350 WAWZ Zarephath, N. J., 250 to 500  
 1380 CMBX Havana, Cuba, 150 to 171  
 1410 CMCR Havana, Cuba, 150 to 122  
 1420 WELL Battle Creek, Mich., 50 to 100  
 1440 KXYZ Houston, Texas, 500 to 1000  
 1470 CMOK Havana, Cuba, 25 to 184  
 1500 CMCN Havana, Cuba, 250 to 162

## NEW

610 KINY Juneau, Alaska  
 900 WFMD Frederick, Md.  
 1210 KIUO Ardmore, Okla.  
 1310 WTAL Tallahassee, Fla.  
 1310 KROC Rochester, Minn.  
 1370 Astoria, Ore.  
 1400 CMGC Matanzas, Cuba  
 1420 KIUN Pecos, Texas  
 1420 KWBG Hutehinson, Kans.  
 1420 Parkersburg, W. Va.  
 1500 KPLC Lake Charles, La.

## CALLS

1310 WCMJ Ashland, Ky., from WMFP  
 1370 WPAV Portsmouth, Ohio from WHBD  
 1400 WIRE Indianapolis, Ind., from WKBF

## DELETE

1310 WISC Milwaukee, Wis.  
 1310 KFPM Greenville, Tex.  
 1320 KSO Des Moines, Iowa

## PERMIT TO CHANGE LOCATION

1500 KGFK Moorehead, Minn., to Duluth, Minn.

## NETWORK

600 WMT Cedar Rapids, Iowa, NBC (Blue) from Columbia

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May 1, 1935



# RADIO INDEX

Reg. U. S. Patent Office



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PAGE TAYLOR  
Short Wave Editor

ELEVENTH YEAR

NUMBER 89

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# A Brand New Idea in Set Building

• • • By FRANCIS DASHIELL

**M**ANY of our readers will recollect with regret the passing of those early experimental days of radio when it was necessary to build your own set in order to have one. In those times everyone had to wind their own coils, drill panels and assemble the parts of the circuit as best they could. But the inevitable day arrived when complicated receivers became the rage. Soon home-made sets were too difficult to construct, and the radio-building craze died away except among amateurs and a few others who were more experimentally inclined. The flood of factory-built superheterodynes that swept the land took all the romance out of set building.

But many people opine that history repeats itself. Perhaps they are right, for, in spite of the abundance of fine radio receivers available on every hand, there now appears to be another drift toward a new era of set building. The new day brings a new idea in radio construction that permits anyone to build the most complicated superheterodyne circuit with almost no effort. One man, more than any other, is responsible for the idea back of this revival in set building.

## A Remarkable Invention

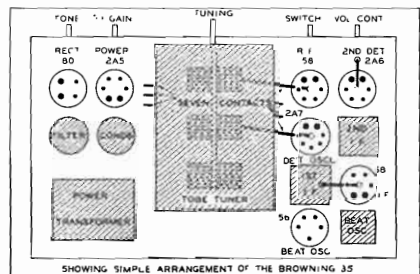
Glenn H. Browning, of Bowning-Drake fame during the early days of radio, has this time revolutionized all-wave set building. He remembers how untold thousands toiled over coils, condensers and trimmers for hours and days. He knew of the disheartening attempts to balance and tune radio-frequency and intermediate-frequency stages in sets that just couldn't be made to work properly. So, with the memory of ruffled tempers and sleepless nights,

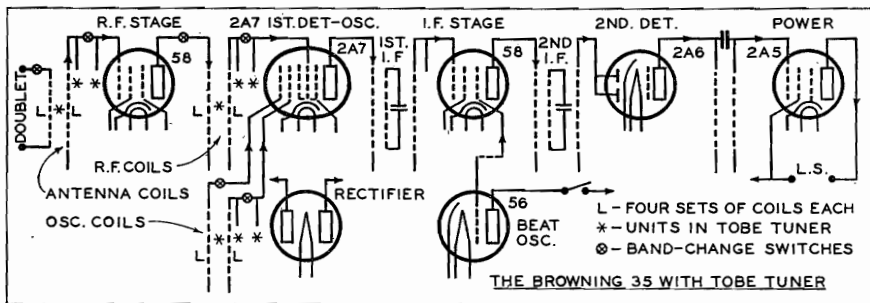
Browning, together with the Tobe Deutschmann Corporation, produced a complete, factory-assembled and adjusted tuning unit that is ready to fit into any home-made radio circuit. And the thing is so very simple that it makes us wonder why it was not done long ago.

Because of this invention it is now practical to construct efficient receivers for broadcast, short or long waves, quickly, easily and cheaply. The tuner is a compact, electro-statically shielded device, electrically and mechanically designed so as to be used as the heart and brains of any all-wave superheterodyne receiver. This tuner is the product of the Tobe Deutschmann Corporation, long eminent in the field of radio condensers and parts. The circuit with which it operates most efficiently was designed by Mr. Browning. It is his first contribution to radio since his former outstanding development.

## The Tobe Tuner

The Browning 35 with Tobe Tuner is a superheterodyne radio receiver that can be easily and quickly assembled with a minimum of connections and practically no adjusting. It is an efficient circuit using seven of the newest types of tubes. Exceptional selectivity, which tends to eliminate image frequencies and harmonics, is





provided by means of a band-pass filter i.f. stage. The i.f. transformers are accurately adjusted at the factory for a frequency of 456 kilocycles with not more than a 5 kc. band-pass width. Automatic volume control is used. A beat-frequency oscillator, an integral part of the set, permits CW signals to be received, and it also locates weak and otherwise easily missed signals.

The heart of the set is the Tobe tuner. It has been designed and assembled so as to obtain maximum gain and selectivity. This tuner incorporates a complete wave-band changing or switching arrangement as well as the several all-wave coils, trimmers and variable tuning condensers. In addition there is a tuned stage of r.f. amplification that covers all frequencies. The oscillator circuit is also within the tuner. In other words, *all* of the tuned circuits, tuning coils for the four separate wave bands, and multi-contact switches and variable and balancing condensers, are built into the sealed tuner unit.

#### Perfectly Shielded Coils

This tuner does not utilize plug-in coils. The band-change switch has silver contacts so as to make good electrical connection and also provide low losses between the parts. Provision is made automatically to short out all the other coils in the unit which are not actually in use. These coils are space wound. Silver plated wire

is used because it has the lowest possible resistance to radio or high-frequency currents that travel only on the surface of the wire.

The coils used in the antenna circuit are mounted in a separate compartment of the tuner unit. The coils for the tuned r.f. stage are in a second shielded compartment. And the oscillator coils are in a third compartment. Thus all troublesome interaction between these three essential circuits is entirely eliminated. The balancing or trimmer condensers used with each of the coils are enclosed within the proper compartments. A three-gang tuning condenser is mounted on the top of the shielded tuner unit enclosing the coils and switch connections, but it also is carefully shielded with an individual cover. This keeps the inductances away from the capacitances. The tuner is absolutely single control in its action. It holds its adjustment and provides a quality of workmanship and design seldom equaled in all-wave receivers.

#### Factory Adjusted

The whole Tobe tuner is wired, aligned, tracked and tested at the factory. This is accomplished by means of a test radio chassis identical to the chassis the set builder will construct. The tuner is slipped into place and seven clips are connected to the terminals of the tuner, and the alignment performed by a skilled operator. It is then sealed and is ready

for shipment. When the tuner is placed in a circuit no further adjustments are necessary. Here is the high point of this long-needed device—only seven connections are made to the rest of the circuit in order to build a complete receiver!

The range of the Tobe 35 tuner is from 540 to 22,600 kilocycles—54 to 22.6 megacycles, or 550 to 12 meters. The four sets of coils contained in the tuner cover four bands: First, 540 to 1,500 kilocycles; second, 1,400 to 3,850 kilocycles; third, 3,400 to 9,200 kilocycles; and fourth and last, 8,800 to 22,600 kilocycles (550 to 200 meters, 215 to 78 meters, 88 to 33 meters, and 34 to 12 meters, respectively). It can be seen that there is sufficient overlap at the end of each band to prevent the possibility of any stations being lost when shifting from band to band.

#### Seven Tubes

Band spreading can be provided on all bands by means of a micro-vernier arrangement on the three-gang tuning condenser. A pointer that is attached to the main shaft of the condenser moves over a dial which is calibrated in megacycles. A second pointer is attached to the micro-vernier tuning knob and rotates through the full 360 degrees of a scale that is divided into only 100 equal spaces.

The first tube used in the New Browning 35 circuit, as shown in the diagram, is a type 58 or 6D6, depending upon the filament voltage that is to be used in the receiver; it is the radio-frequency amplifier. The second tube is a double purpose (mixer) type 2A7 or 6A7 combination first detector with its oscillator electronically coupled. The third tube is a type 58 or 6D6 used in a highly selective intermediate-frequency stage. The fourth tube is a type 2A6 or 75 diode second detector which also furnishes the voltage for

(Continued on page 41)



## Put More Stations

### ON YOUR DIAL with the RCA World-Wide Antenna

Your radio will give amazingly better performance with an RCA World-Wide Antenna!

It greatly reduces man-made interference on short waves and brings you more foreign stations. \$6 plus installation.

The De Luxe RCA World-Wide Antenna reduces man-made interference on all wave-lengths. \$7.50 plus installation.

Ask your radio service engineer or dealer for a *Certified* Installation of the Noise-Reducing RCA World-Wide Antenna. And write for booklet, "Antenna Facts".

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### WORLD-WIDE ANTENNA SYSTEM



# The Airport Stations and Other S. W. News

• • • By PAGE TAYLOR

**S**OME of the most interesting shortwave stations at the present time are the army airports, particularly in view of the fact they verify correct reports. An interesting letter was recently received from Mr. George S. Clark of Air Corps Radio Station WTR, 19th Wing, Albrook Field, Canal Zone, giving information on a number of stations. Mr. Clark writes:

"Our transmitter here is an RCA Model ET-3666 Radiophone, designed for airports, which delivers approximately 300 watts to the antenna. We use a semi-vertical Marconi antenna. The receivers we use are a Hammerlund Comet PRO and an RCA AVR-5A Airport Superhet.

"Here is a list of the aircorps radiophone stations with which we work daily, usually between 9 pm and midnight EST.: IS3, Bolling Field, Washington, D. C., 6385, 6425 and 6645 kcs.; WO9, Mitchell Field, Hempstead, Long Island, 6385 kcs.; FG7, Langley Field, Hampton, Va., 6645 kcs.; VK1, Selfridge Field, Mich., 6425 kcs.; PE2, Wright Field, Dayton, Ohio, 6645 kcs.; BB1, Maxwell Field, Montgomery, Ala.; BCL, Chanute Field, Rantoul, Ill., 6425 kcs. and WUK, Chapman Field, Miami, Fla., 8620 kcs.

"The calls VK1, WO9 and the others that are apparently unofficial are known as tactical calls. They are assigned to these transmitters for use in air to ground communication. Such long distant point-to-point work was not contemplated when these transmitters were installed, and it is only recently that these stations, at the instigation of

the operators, have been working together in a radiophone net. Under very adverse operating circumstances we have been trying to organize some sort of dependable, systematic radiophone network and so far it has been more or less dependable but not very systematic.

"Until recently when the two broadcast stations HP5B and HP5J were licensed in Panama, WTR was the only voice modulated transmitter between Costa Rica and Colombia. Concerning the interference from YN1GG of Managua, Nicaragua, he is on daily at irregular intervals throughout the entire day on this frequency, and practically ruins our air to ground communication at times. So far we have been able to do nothing about it but make the usual formal reports."

## A New League Schedule

Mr. Gallarati of the Information Section of the League of Nations advises us that "Radio-Nations" has added a new transmission to their regular schedule. "It may interest you to know that, as a result of our recent experiments, we have fixed our second weekly broadcast for Monday morning at 8:15 am, GMT on a wavelength of 16.25 meters," he writes. HBL and HBP will continue with their usual Saturday night broadcasts. 8:15 am GMT is equivalent to 3:15 am Eastern Standard Time.

Listeners who have reported regularly to the German Shortwave Broadcasters were rewarded recently by receiving a phonograph recording of the announcer's voice and the familiar interval signal. The letter



which accompanied the recording reads: "The German shortwave station thanks you for the faithful collaboration it has received from you since its directional beam service was inaugurated, in the numerous letters and reports of reception you have sent in. Such collaboration is always very welcome, not only for the help it affords in the future development of our service, but also because it has made, as we believe, a personal bond of fellowship between our listeners and ourselves, from which we draw daily new suggestion and encouragement in our work.

"The little record which accompanies this letter is sent as a token of our wish to make this bond still closer and to give you an especial pleasure. Play it over on your gramophone to yourself and to your friends. You will hear our chime signal: "Ub 'immer Träu und Redlichkeit. . .", the familiar voice of our announcer, and two folk songs sung by a boys' choir. The record is meant to remind you that our program awaits you every evening, and to bring you at the same time a greeting from Germany."

### The "Q" Troubles

"For the past thirty days reception has been quite frequently marred by QRM, QRN and QSB," complains Irving C. Johnson, 1926 Argyle St., Chicago, Ill. However, from the few hours of good reception and from confirmations received we hope to offer a few tips that may assist some fellow DX-er in logging some elusive station. The shortwaves of today certainly remind us of the pioneer DX days way back in 1922. Then we had the same heterodyne interference which is beginning to become particularly aggravating on the shortwaves now. When these chaotic conditions existed on the BC band back in the days when PWX and KFI were the goal of every DX-er, the Federal



*Jack and Loretta Clemens, musically talented kin of the late Mark Twain and one of radio's most popular young song and dialogue teams, are on the air Sunday mornings at 11:15 EST over an NBC-WEAF hookup. Besides singing solos and duets, Jack plays the guitar and banjo and Loretta plays the piano.*

Radio Commission came to the rescue. What we need today is a World Radio Commission to regulate the 8000 shortwave stations on the globe.

"Saturday is a good day to log HVJ at the Vatican City. Very frequently they are on the air on this day at 10 am on 15.12 megs. Sunday morning is usually a good time to bring in the stations from 'down under' but recently I was surprised to find LKJ1 at Jeloy, Norway on 9.55 megs at 5 am, EST."

### Some DX Reports

"I do not know if this is considered a good catch, but recently I received a QSL card from VUB, Bombay, 9565 kcs." reports Mr. A. Belanger, 76 Hotel-de-Ville St., Hull, P. Q. "The card is signed by what looks like C. B. Sethna, Station Director of the Indian State Broadcasting Service. The best time to hear this station is between 7:30 and 8 am, EST, on Sunday mornings."

"Colorado is not favorably located for reception of European stations but there are two that come in very well," writes Murray Black, 1012 Whipple Ave., Canon City, Colo. "The two are GSA and EAQ. GSE and GSD are next best while DJB and



*Horace Heidt, whose orchestra has blazed a musical trail of glory from the University of California to Monte Carlo, may now be heard on the twice-weekly program of the CBS "Ship of Joy," Tuesdays and Thursdays at 10:30 p. m. EST.*

2RO come in well on occasions, but such occasions are to be celebrated. The S. A.'s are heard with tremendous volume; HJ1ABB is probably best but YV2RC, YV3RC, HJ3ABF, HJ1ABG and PRF5 are very good. Of all the foreign stations, PLV in Bandoeng, Java, is the most consistent. This is quite a coincidence inasmuch as this is also the most distant station heard. They are on from five to fifteen minutes each morning at about 8 am (MST), then go into inverted speech. My radio is a Pilot All-wave, 1933 model, and its performance is phenomenal for a set of moderate cost."

#### **A Dominican Special**

A QSL card from station HIH advises us that this station works on 44 meters or 6800 kcs. from 4 until 8:30 pm, EST with a power of 75

watts, and that a special program is radiated on Sunday mornings from 3 to 4 am, EST. This program is dedicated to all s.w. fans in the United States and Canada. Reports on HIH should be addressed to Sr. Domingo Dominguez, Radiodifusora HIH, La Voz del Higuamo, San Pedro de Macoris, Dominican Republic.

"The location of the Hungarian stations is called Szekesfehervar and not Skekesfehevar," corrects Albert Steinmetz, 205 E. Main St., Norristown, Pa. "Here is something I think is quite important and wonder if you agree with me: In Germany they have German mail carriers; in America, Americans, and in Hungary, the postmen are Hungarian. I think it would be better to give the address of the Hungarian stations in the Hungarian language for the benefit of the man who eventually must deliver the letter. This address is Magyar Kiralyi Postakiserleti Allosma, IX Kerulet Gyalı Ut 22, Budapest, Hungary."

#### **English Reception**

"Last night I heard Daventry on its new wavelength," contributes Geo. W. Acker, 267 N. Lyman St., Wadsworth, Ohio. "This is GSL, 49.1 meters or 6110 kcs. They were on the air at 10 pm, EST, announcing GSL, L for Liberty. This broadcast is known as Transmission No. Six. A short while ago YV6RV moved down to 6520 kcs. and has been there since. No doubt this move was made to avoid interference with HP5B. Now YV6RV is bothered by code."

Robert Pybus, 4 Highfield Road, Chorlton - cum - Hardy, Manchester, England, reports again on short-waves in England: "VK3LR has been testing lately with HBL, the League of Nations, and has been heard well here, although 3LR's announcement that they were using only 600 watts as compared with HBL's 20 kw, was

greeted with amazement. HBL, by the way, used on this last occasion a wavelength of 16 meters. CT1AA in Lisbon has slightly altered its wavelength to 31 meters; they also test once in a while on 50.26 meters near 10 pm GMT. The strength is excellent but it may offer some difficulty to American listeners."

#### The S. A. on 11.720

A Spanish-speaking station has been heard often in the early evenings on 11.720 megs. and nearly everyone reporting it believed it to be a harmonic. It is not a harmonic, however, but Radiodifusora HJ4-ABA, "Ecos de la Montana," Medellin, Colombia. This station is heard with good volume and quality, except that occasionally interference is noted from Pontoise, France. No interval signal or theme song has been recognized as yet, but the call letters, slogan, and the name of the owner, Francisco Cuartas, are mentioned often in the announcements.

James L. Black, 2252 Bellfield Ave., Cleveland, Ohio, has identified some of the new police stations which are listed by locations in the DX Log of the World but which did not have call letters at the time the Log was printed. His list follows: "Storm Lake, Iowa, 1.682 megs, KNFO; Steubenville, Ohio, 2.458, WPHD; Newcastle, Pa., 2.482, WPGE; Parkersburg, W. Va., 2.490, WPHQ. Other new ones not yet listed are WPGF, Providence, R. I., 1.712; Dodge City, Kans. on about 2.474 and Cambridge, Ohio, on 1.596. Some other interesting calls I have heard are WYER, 2.604, Lexington, Mo.; WYBF, 2.604, Napoleon, Mo.; WZAO, the U. S. Steamer Bixbee, and WZAF, somewhere in Missouri."

#### Two New Stations

"There is a new s.w. station on 9.590 megs. in Panama City, Panama," postcards R. Abella, Havana, Cuba. "This is 'La Voz de Panama,'

HP5J, and they constantly interfere with W3XAU between 7 and 10 pm, EST."

"I have logged a very new s.w. station," advises Manuel Alberto Cadilla, Box 337, San Juan, P. R. "This station is VP6YB on about 44 meters, giving its location as Demerara, Barbados, and requesting reports. Despite an unfavorable s.w. location, I have built up a log of 50 s.w. broadcasters, which I believe is very good for tropical reception."

(VP6YB, Craigston, Aquatic Gardens, Garrison, Barbados, 7070 kcs., 42.4 meters. This is an amateur station which has been conducting tests, mostly with England. On the completion of these tests it is expected regular broadcasting service will be inaugurated in either the 25-, 31- or 49-meter bands. Ed.)

"I have a 5-tube A-K Model 325 and am very pleased with its tone



Meet the newest member of Captain Henry's Show Boat troupe, Kathleen Wells, former dress shop mannequin who studied singing during her lunch hours. Born in Jersey City, this black-haired, blue-eyed colleen modeled clothes during the day and sang the blues in occasional radio appearances at night. Every Thursday at 9 p. m. EDST on NBC-WEAF.

and selectivity," says Joe Sacchi, Marshfield, Ore. "Will someone please answer these questions for me? A station on 6520 kcs. plays pipe organ music and has chimes for an interval signal. Does HP5B work every day and do they announce in English? I would like to hear from other DX'ers and will answer all letters."

Replying to the questions, the first station is YV6RV, Valencia, Venezuela, on its new frequency. HP5B works daily from 7 to 10:30 pm, EST and announces often in English.

### The French "Fones"

Francis D. Gilliland, 3621 Sutherland Road, Shaker Heights, Ohio, has a complete official list of the French commercial stations from the Compagnie Radio-France. This list includes the following telephone stations: FTX, 6175 kcs; FTF, 7770 kcs; FTY, 7885 kcs; FTL, 9965 FTA, 11940; FQO, 12160; FTN, 12260; FTK, 15880; FTO, 18250; FTE, 18330; FTM, 19355; and FRO, 19420. These stations are all located at Ste. Assise.

"I have been a s.w. fan since last May and am really pulling in the stations on my Philco 16X," boasts G. H. Millican, 321 E. 24th Ave., Amarillo, Tex. "Looking over my log I find several nice catches, among these being HC2ET, Guayaquil, Ecuador, 4600 kcs. They have so far failed to verify my reception. I have logged the three VK's, HP5B, Daventry, Zeesen, YV5RMO, Kahuku, OAS4D, HI4D, CT1AA and many others. RV15 is heard every morning before going to work, and sometimes YDB at Bandoeng."

### Reception in Western Provinces

"Shortwave reception in Alberta has been very erratic during the past five months," reports P. I. Ogilvie, Ponoka, Alta. "The best European stations are undoubtedly Daventry (GSE, -D, -B and sometimes GSA)

and Paris on 25.2 meters. EAQ, Madrid, is possibly the third best but their signal does not come through as strongly as the two other countries. The D stations at Zeesen, Germany, are heard very poorly, the best being DJC on 49.8 m. and the new station DJN. The three Australian stations come in well. I just got a verification from VK5LR in which they state they use only 600 watts in the aerial, and that their antennae are omni-directional and also uni-directional. JVE, Nazaki, Japan, can be heard calling Dixon near 8 pm; JVF calls Dixon near 6 pm;" Mr. Ogilvie hears the usual run of South American stations, rating HJ1ABB as the best of them all.

### The Rome Stations

"I received a verification from 2RO, Rome, Italy, a short while ago and note several changes in their stations," comments Jasper Pollina,



*Carlyle Stevens has been given the first annual "BBDO Award for Good Announcing." Such qualities as naturalness, absence of curious inflections and lack of mannerisms, were among those considered in making the award. Stevens is 27 years old and a regular staff announcer of Columbia chain programs emanating from WABC.*

R.1, Port Huron, Mich. "They tell me that they use two transmitters, each with a power of 25 kw., and they can work on four frequencies, 6085, 9600, 9780 and 11810 kcs. The 9780 kcs. transmissions have been dropped and they broadcast now on 9600 kcs. (same frequency used by CT1AA). Their schedule is, in EST, daily, 9 to 10 am, 11810 kcs. (to Japan); 2:30 to 5 pm, 9600 kcs; Monday, Wednesday and Friday from 6 to 7:30 pm on 6085 kcs. (to North America); Monday, Wednesday and Friday, 7:45 to 9:15 pm, 9600 kcs (to South America)."

When Rome moved to 9600 kcs. it became necessary for CT1AA to make a change. Geo. W. Acker of Wadsworth Ohio, and R. N. Putman, 920-12th Ave. No., Fargo, N. Dak., report CT1AA operating on their regular schedule on the new frequency of 9590 kcs.

#### A New Mexican

"This evening from 6-7 pm, EST, I tuned in a station which, as far as I can ascertain, does not appear in any of the current s.w. lists," post-cards J. G. Richard Heckscher, Devon, Pa. "This is XECR, 7350 kcs., Mexican Foreign Office, Mexico City, Mexico."

"So far March has been a total loss to me as I cannot get any distance through the static and heavy interference which has been so prevalent," complains Harvey E. Sells, 677 Kennesaw Ave. N. E., Atlanta, Ga. "I wonder who has heard GSL, London, testing on 6110 kcs. I heard them about 9:30 pm, CST on a Saturday night. They asked for reports and said they would verify. Can nothing be done about the amateurs and code stations working in the broadcast sections? The code stations ruin everything for me except the 19-meter band. Codes have prevented me from ever hearing PHI, and constantly play havoc with GSA and DJC. I would appreciate it if

some readers will tell me when and where to catch Honolulu."

"I am pleased to report that YV6RV does verify reports. I recently received a QQLS from them on which they tell me their frequency is changed to 6520 kcs and their broadcasting hours extended to 8:30 pm, EST. I hear this station nightly on my National FB7," reports Morgan Fashay, 168 Park St., Montclair, N. J.

#### Set Your Watch by S. W.

"I recently came across a list of government stations broadcasting time signals and it occurred to me there might be some listeners who would be interested in the list," suggests Ray N. Putnam of Fargo, N. Dak. "The list follows: 11:55 to 12 midnight, EST., NAA, Washington, 4525 kcs. 2:55 to 3 am, NAA, Washington, 9050; NPG, San Francisco, 8590 and NPM, Honolulu, 8090; 7:55 to 8 am, NPO, Cavite, P. I., 9050. 11:55 to 12 noon, NAL, Washington, 690; NAA, Washington, 8410, 12615, 16820; NPG, San Francisco, 12885; NPM, Honolulu, 8090. 3:55 to 4 pm, NAA, Washington, 9050. 6:55 to 7 pm, NAA, Washington, 9050. 9:55 to 10 pm, NAA, Washington, 9050; NPG, San Francisco, 12855; NPM, Honolulu, 16810. 11:25 to 11:30 pm, NPO, Cavite, P. I., 8872, 17744.

#### Some S. W. Chat

"Here are a few s.w. items that may be of interest," contributes W. L. Damkoehler, 6649 W. Mt. Vernon, Milwaukee, Wisc. "KD9, Ottumwa, Iowa, 15 watts, heard on 49.9 meters. The call letters of W1XAZ, Millis, Mass. have been changed to W1XK. I am using a Lincoln S-W34 for my DXing and have about 80 of the 100 Best Short-wave Stations. I would like to mention that the new HJ4ABL in Man-

*(Continued on page 40)*

# Getting Acquainted with the Stars

• • • By "BETTY"



**B**ERNICE CLAIRE left her Oakland, Calif., home in 1929 with a definite five-year plan to become a national figure in the entertainment world—and she has succeeded.

Her five years of accomplishments include: One year as the feminine star in the midwest company of the "Desert Song"; star roles in five motion pictures—"No, No Nanette," "Song of the Flame," "Kiss Me Again," "Top Speed," and "Numbered Men"; a concert tour of Canada; several New York concert and radio appearances, and a contract to co-star with Frank Munn in the weekly "Lavender and Old Lace" series heard over the Columbia network each Tuesday from 8:00 to 8:30 p.m. EDST, and on "Waltz Time" over the NBC (red) network at 9:00 p.m. EDST each Friday.

Born in Oakland, Bernice studied as a child to become a professional dancer, but discovered at an early age that she was gifted with a beautiful singing voice. "I decided it was easier to sing than dance," she confesses, "and soon gave up dancing." She made her first public appearance in the Oakland Tribune Auditorium, in one of the Aunt Elsie Club entertainments, when only eleven, and for seven years thereafter she was associated with the juvenile social organization.

The Aunt Elsie Club gave entertainments each six weeks for the children of Oakland. At 14 Bernice was selected to stage these entertainments and it was through her work there that she met Alice Eggers, an Oakland vocal teacher, who trained her voice. To Miss Eggers Bernice gives credit for much of her success.

Miss Eggers was indirectly responsible for Bernice's initial appearance on the professional stage in the "Desert Song." Back in 1929, the vocal teacher obtained an audition for Bernice with Emil Pollak, nationally-known impresario, who was visiting in San Francisco. Pollak advised her to come to New York.

Months later, without forewarning, Pollak received a telephone call from Bernice in New York. She had arrived in the city and wanted a job. And Pollak didn't fail her. Through his courtesy she was signed to play in the "Desert Song."

Bernice broke into the movies as the result of extending a courtesy to Alexander Gray, radio and movie baritone. He was to be given a movie test and asked Bernice to do a scene with him from the "Desert Song." When the test film was viewed by Hollywood executives Gray was chosen to play a star role in "Nancy"

—and Bernice, much to her surprise, was offered a contract to star in "No, No Nanette." The producers of the picture had been searching for a girl of her type—youthful, blonde and vivacious. After playing in this musical film, she was signed to play in the other four pictures. She came to radio as a natural result of her success on the stage, in the concert field, and in Hollywood.

She is friendly and democratic . . . lives in a comfortable but not lavishly decorated apartment on Central Park West, New York . . . loves to attend the theatre, but is unable to stay out very late, as lack of sleep affects her singing voice . . . likes to swim, play tennis and ride horseback.

\* \* \*

Rudy Vallee recently signed a new contract which will keep him before the microphone for another year and a half at least, and may keep him on the same job for the next seven years. The popular air headliner, who has been broadcasting for Fleischmann's for five and a half years, will achieve a record of nearly thirteen years under the same sponsorship if all the options of his new contract are fulfilled. Rudy's old contract called for his services until the end of the present year. The new one continues the agreement through 1936 with options for each of the succeeding five years, or until January 1, 1942. The young bandleader made his debut on the old Fleischmann Sunshine Hour on October 24, 1929, and has been the star of the Thursday night broadcasts over NBC networks ever since. With the evolution of the Sunshine Hour into the present Fleischmann Variety Hour he became identified as a showman as well as a singer and orchestra leader, and today is regarded as one of the air's outstanding impresarios.

\* \* \*

Robert Simmons, top tenor of the

Revelers, started life as a Methodist Episcopal minister's son in Fairplay, Mo. Educated at Marionville Academy and Washington University, St. Louis . . . enrolled at New England Conservatory of Music, Boston, and worked five years as choir director and tutor . . . studied in Berlin . . . came to radio five years ago as concert tenor . . . made good as singer of "hot tunes" because he chose to eat . . . has a lodge on mountain near Cornwall, N. Y. . . . drives his own car at high speed, although expertly . . . has an aversion for raucous voices and loud-speaking women . . . is not exactly a woman-hater but keeps 'em at a distance . . . five feet ten . . . 160 pounds . . . black wavy hair . . . brown eyes.

\* \* \*

There are really four Pickens Sisters . . . Grace is 27, Helen 26, Jane 24 and Patti 17 years old. Helen, Jane and Patti comprise the famous trio . . . Grace manages the business details and is always ready to substitute for any one of her sisters should she be taken ill. . . Jane writes those trick orchestrations you hear and is the only girl in radio who can write her own orchestrations. . . Helen helps Grace keep account of their business engagements, and Patti devotes her spare time to collecting tropical fish and answering fan mail. Mother Pickens stays in the background and keeps their scrap-book up to date.

\* \* \*

In tribute to the work they have done in promoting the welfare of amateur entertainers, the new Association of Radio Amateurs has presented a scroll to Arnold Johnson, conductor, and Ray Perkins, master-of-ceremonies, of Columbia's "National Amateur Night" broadcasts. Johnson is giving free musical advice to two non-professionals who he believes have exceptional talent. Carl Good is president of the amateur association.

# The Thrill of the Month Club

## Our Readers Tell What They Heard

**W**ITH the 1934-35 season rapidly drawing to a close, the reports are taking on the nature of post-mortems. The foreign stations are beginning to appear with greater and greater frequency in these reports. With the increasing power of the foreign stations, the improved tuning technique of our DXers and the constant improvement of receivers, another winter ought to bring the foreigners through many a loud-speaker that has never vibrated to their signals before. Already we read of Australia interfering with Nashville. Is the day coming when Timbuctoo will interfere with Podunk?

### Getting Across

"During January we experienced some very good TA reception," observes Walter C. Birch, 22 Oneida Street, East Lynn, Mass. "Some of my better catches were EAJ-41, Lodz, Madonna, Moravska-Ostrava and I1GE. CX-14 is the fellow on 810 who has been coming through WCCO regularly during the evening hours. He signs off at midnight, Argentina time, with news reports and the recording 'Anchors Aweigh.' CX-28 was also logged, identified and reported. The station on 815 is not PRA6 but a Cuban. I have never been able to get the fourth letter of his call. He is located in Havana and the first three letters are CMC. Two other stations new to me were logged: CX-16 and CE-76. The former has been raising the deuce with WWL and the latter has been heard in the background of WJZ on quite a few evenings. February was an off month for the TA's. But SA reception held up very well. New stations logged were LR-10, CPX, YV3RC and—what I consider the best catch of the season—CX-30, 'Radio Na-

cional', Montevideo, 1130 kcs. He was heard immediately after WJJD had signed off on February 20, 21 and 22. Another good catch is HHK who can be heard most any Friday p. m. from 7:30 to 9:30 on about 922.

"On Sunday, March 3, I heard the following stations in the afternoon: PP, Toulouse, Paris PTT, Fecamp, Bordeaux, CT1GL, EAJ1, EAJ7, EAJ15, Sottens, Brno, I1RO and I1TO. Sottens and Paris PTT were new additions to my season's log bringing my total TA to 45. In SA I have heard 23 stations. LR-8, 'Radio Paris', Buenos Aires, has been heard consistently during the evening this month. He has changed his frequency or else is wandering away from his 1150 as I hear him on about 1144. YV6RV is now broadcasting on 1350 instead of 675. LS2 has been a most consistent visitor. I believe I have missed him but three or four times since the middle of November. LR5 is also very regular; his signal now compares with that of LS2. I, too, heard the New Year ring in in Buenos Aires via LR5, and then shifted to LS2 to hear a special Pan-American program for the next hour."

### Traps the Locals

"I use a home-made wave-trap with a range of 500 to 3000 kcs. and find it a great help not only in tuning out unwanted stations but in tuning in many faint signals I could not hear without it," avers James L. Black, 2252 Bellfield Ave., Cleveland, Ohio. "It also makes a noiseless volume control. A very useful article for me was the one in January, 1934, 'Proper Reports Bring Verifications,' by Alfred Oppel. I have used his type of report during the past year and only twice have I failed to receive a verie. One report



says, in part, 'Your report was very easy to check and every detail was correct.' I think that is a real endorsement of Mr. Oppel's method. I am sure that more DXers ought to use it. During the frequency checks of March 7th, I heard 31 out of 48 stations, eight of those missed being in Texas or California. I heard WSPA testing on its old frequency of 1420. Also KGBX, now listed on 1230, was heard on 1310.

"Between February 13 and March 13 of this year, I added 50 new stations to my log. That is what a few nights on the frequency checks will do. I would like to correspond with other DXers. My other hobby is amateur astronomy and I would like to hear from other DXers who are interested in astronomy."

#### New Mexicans?

"I am enclosing a clipping from the Laredo Times which gives notice of a new station, XECR, Mexico City, which will give its inaugural broadcast on Sunday, March 24th. XECR is operated by the Secretary of Foreign Relations. There is also a new station with the call XEFH located at Torreon, Coahuila." This information comes from Samuel A. Meyer, Jr., 83 Canterbury Road, Rochester, N. Y., but he unfortunately fails to give either the frequencies or power of the two stations and these are not listed in the latest report from the Mexican Government. "I now have 448 stations verified on the b cb, and a total of 559 logged," adds Samuel. "Some of my best verified catches are KFPM, CFCT, XEWZ, XEU, CMCD, XEYZ, PP, VONF, LR5, CMJP, CMGF, YV1RC, TGW, HIX and Radio-Normandie. I have reports out to HHK, LR2, LR6 and HJN. Has anyone received a verje from XEFZ? I would like to correspond with DXers in Latin-America and will do my best to answer all letters. We have a little club of DXers here that we call the Rochester DX Club and on the 6th and 13th of January,



*Kay Thompson, the deep-throated singer who has become so popular with Fred Waring's Pennsylvanians, has now been joined by her two sisters, Blanche (left) and Marian (right) sing in the girls' glee club and Kay (center) does solo work. On the Columbia each Thursday from 9:30 to 10:30 p. m. EDST.*

XEKL (1240) broadcast two programs dedicated to us, I am curious to know how many DXers received these programs. Only one of our members heard it and he said it was barely audible. If any others received it, will they drop me a card?"

#### 30 Watts and 8163 Miles

"After working 4AY in Ayr, Queensland, Australia, for more than three weeks, hearing their calls on several occasions, I was finally rewarded by hearing about 30 minutes of their program without a break," says Wm. H. Ansell, 168 Wascana Street, N., Regina, Sask. "Under date of December 19, 1934, Norman L. Dahl, Managing Director of 4AY, wrote me as follows: 'It was a great pleasure to us to receive your report on the reception of this station. Considering that at present we have only 30 watts (unmodulated) in the aerial, your reception was quite remarkable. We have had more than 400 reports from New Zealand, 1400 miles distant, and have also been reported from New Guinea and the Pacific Islands. However yours is our most distant report to date.' It was a surprise to me to learn that 4AY was using only 30 watts as this station has permission to use 100 watts. Naturally, I am quite proud

of my verification which makes my nineteenth from Australia. All have been received on a Northern Electric 7-tube t. r. f. 1932 set. I hope soon to pass the twenty mark as I have reports out to two other Australians." According to our World Globe, the distance from Ayr to Regina is 8,163 miles which is some mileage for a 30-watt signal.

#### Answering Mr. Hambly

For Mr. Hambly of London, England, the following answer to his queries comes from Warren E. Winkley, P. O. Box 12, Hughson, Calif. "His Cuban station is none other than CMCY who is on 1110 kcs. according to the announcement I hear from them *every night*. I also was bothered by the terms 'General Electric' until I learned who they were. The COA Mr. Hambly hears is really COH, their short-wave call. They are heard here every night from 5:45 to 7:30 PST. CMQ is heard here absolutely R9. Two weeks ago on Bill Ellis' set, CMQ was heard with good volume a block away in clear sunlight! Incidentally CMCY dedicated a piece to me the latter part of December which it was a big thrill for me to hear. Who can be the Mexican on 705 in the evening? I never heard any human speak so fast as the announcer on that station. I've had five years of Spanish but I can't positively identify him. I thought I heard him say XED once. Who are the Spanish-speaking stations on 815, 885 and 995? For the person first reporting to me the correct identity of these stations, I'll give an indoor aerial; that is how anxious I am to learn who they are."

#### Over the North Pole

"My list of verified Europeans has increased to eleven," finds Charles H. Hesterman, 2214 Herman Ave., Saskatoon, Sask. "I now have the following verified: Stuttgart, Langenburg, Leipzig, Fecamp, PP, Milan, HAL, Monte Ceneri, Riga, Vienna and Praha. I have verified both

Langenburg and Leipzig twice which disproves any 'freak' reception. I am wondering if the signals I am receiving from Europe are coming to me via the North Pole. I hear that listeners in the Yukon are using the European stations for entertainment purposes! Otherwise why do I receive the Europeans so well and yet have great difficulty in hearing the powerful eastern USA stations? When I tuned in Vienna on 592, I heard a very fine, strong symphony orchestra. I will be pleased to answer any and all letters I receive through RADEX."

"I now have three continents verified," asserts Richard W. Watts, 19695 Beach Cliff Blvd., Rocky River, Ohio. "Three of my veries are HAL, PP and CX-26. Have reports out to LR5 and 1YA. Best on this continent are XEFZ, XEWZ, TGW and CFCT. Would like to hear from DXers outside of the U. S. and Canada. XFX is now a 24-hour station on 610. 1YA on 650 is heard often and 2UE every Saturday morning. I have now heard both the farthest east and farthest west stations, WAGM and KRGV. Have all states verified except Wyoming and Vermont. To get Idaho try 1240 at 1:00 a. m. EST and you will hear KTFI. I use a Scott all-wave with 150 feet of aerial. I am now a member of the CDXR and we have a Cleveland chapter."

#### Who Is CC-1?

"In July, 1934, I began DX with a new 9-tube all-wave Silvertone," says A. J. Paul, Rt. 2, Box 279, Austin, Texas. "I now have a total of 334 stations on the beb. including 42 states, the D. of C., Canada, Cuba, Puerto Rico, Mexico, Guatemala, Hawaii, Japan and New Zealand. I have logged five Japanese—JOBK-1, JOBK-2, JOIK, JOHK and JOAK-1. On sw. I have 39 with VK2ME-3ME-3LR, JVF and RW-15 as my best. Can anyone identify the following for me? Station CC-1 heard talking

to an airplane February 9, at 9:05 a. m. CST on 650 kcs. This could have been a harmonic. A broadcast station using the call KPRS in Houston, Texas. This station has been heard on different frequencies and is not KPRC. Would like to hear from other DXers and all letters will be answered."

"Although I am only 14 years old, I have been interested in DX for about four years," relates Bob Greer, 2514 Elm St., Youngstown, Ohio. "In 1931, after we bought a nine-tube Philco 96, I began on a small scale. That winter I received 139 stations. The next year I did a little worse, receiving only 124. In 1933-34 I got a copy of RADEX and that year I received close to 375. This year I have really gone in for DX seriously and thus far I have received 490 stations. Among my best are CMJP, TGW, CX-26, LR5, VE9EK, KXO, KERN, KWG, KPJM, XEU and CJLS. I have received 25 from California. My all-time total is now 590. I have all the states but Wyoming. I would like tips on WKZO, WKAR, WJAG and WSPA. DX is sure one good hobby."

#### The 650 Stranger Again

C. C. Wilson, 11 S. College Ave., Salem, Va., also reports the mysterious stranger on 650 to which W. Russell Du Cette, Seattle, referred in the April issue. Says Mr. Wilson: "A station on 650 kcs. comes in from about 3 a. m. to 6 a. m. EST and sounds like a hundred-watt station about 1000 or more miles distant. They broadcast American phonograph records, talk in English and apparently announce in English. I have heard real performers there too. The call I heard sounded like XELE. It does not take much QRM to spoil any announcement they make and WSM usually ruins their program." The new 1YA on 650 has been quite widely reported.

From Eugene S. Allen, 2519 Ridge Road, Berkeley, Calif.: "In the past

three months I have added 85 new stations on the bcb, to my log. During the past year I have heard 378 bc, and 117 sw. stations. Included in the 378 are 23 in Mexico, 22 in Japan, 19 in Canada, 3 in N. Z., 2 in Australia, China, Formosa, Hawaii, Puerto Rico and USSR, and one each in Cuba and Alaska. I think my best is RW-41 on 560 and RW-17 on 640. I have a Patterson PR-10 all-wave with a two-stage i. f. pre-selector, making 12 tubes in all. Antenna is 120 feet long in an E-W direction. Would like to hear from other users of the Patterson."

#### Thought It Impossible

"I was one of the DX hounds who thought it impossible to reach Europe, South America or Asia," admits Reid Kling, White Deer, Pa. "But, thanks to the tips from your magazine, I pulled in CT1GL, XIX, XJN,



*Did you know that Jack Pearl and conductor Freddie Rich are cousins? Their mothers were sisters and Freddie and Jack were brought up in the same neighborhood in New York City. Rich, whose latest portrait is shown above, and his 30-piece orchestra, and Pearl as "Peter Pfeiffer" are heard over the Columbia net each Wednesday at 10 p. m. EDST.*

CX26, LR5, KGMB with about 700 stations verified. I am using a Philco 11-tube, three years old, with no aerial except the leadin, and a copper hammer buried in the cellar for a ground. On the morning of January 1, on 1330, I heard a station at 5 a. m. EST announcing a 12-hour New Year program and the call HJ2A-. I could not catch the last letter. Can anyone help me?"

"I have read of logs and how long it took to build them so I would like to submit one that I made in just 30 minutes on one band, the 31-meter, on March 1st, from 5:30 to 6:00 EST," submits Lyle Stanard, 817 King St., Three Rivers, Mich. "Here it is: COH, PRF5, GSB, OXY, DJN, W1XAS, GSC, W3XAU, CT1AA and EAQ. These stations came in clear and loud, the volume control on my Scott 15 swung well across the dial. I did not stop to hear all the call letters but I have heard them enough times before to be sure of the identity and the type of broadcast they were presenting."

"Many thanks for printing the article, 'Which is the Best Antenna'. It is just the information that I have been looking for," appreciatively affirms Jack McLaren, 515 Rathgar Ave., Winnipeg, Man. "I have a nine-tube Rogers-Majestic, 1931 model and am using a single antenna, seven-strand, about 35 feet long and 20 feet high. I consider my best catch to be KLZ at two o'clock in the afternoon on January 16. I verified the station on a 15-minute talk at that time. Among others I have received are XEAF, XEW, XEN, KPO, XEPN, XEAW and WGY. Although I have only a standard broadcast radio, I am as much interested in s. w. as b. c."

#### From South Africa

Here is a winter report on summer reception from A. C. Lyell, Johannesburg, South Africa: "Whilst conditions were on the erratic side, there has been on the whole a measure of

improvement in the reception on the bcb. For the last ten days (January 31) there has been no trace of any sound on the broadcast band. The stations received recently include Hamburg, Budapest, Bordeaux, Breslau, Moscow, Madona, Monte Ceneri, Brno, Lwow, Rome, Cologne, Milan, Berlin, KMOX, WTAM, WOAI, WBT and WLW. These were heard during the month and verifications are being applied for. I use a Pilot 63."

"I wrote KMJ, Fresno, Calif., a very fine letter of reception, giving them about seven or eight numbers they played. I now receive a card saying they are sorry but they cannot verify my report as I did not furnish the exact wording of their station announcement. So if any listeners want to have reports verified, let them make sure that they get the station announcement as it looks as though the musical selections and other data, will not be sufficient." Thus warns J. Edward Diehm, Jr., 424 Walnut St., Pottstown, Pa.

"I am 16 and a senior in High School," prefaces Frank Field, Jr., (no address). "I am just starting my sixth month of DX using a Philco 16-B. Since October 15, 1934, I have identified 635 stations on the bcb. I have now come to the place where the going is hard although in February I added 45 stations to my list. I have every state in the U. S., every province in Canada, 20 stations in Mexico, 13 in Cuba, 3 in Australia, 2 in Guatemala, 2 in Argentina, 2 in France, and one each in Spain, Portugal, New Zealand and Korea. I have two in Puerto Rico, and one each in Alaska and Hawaii."

#### Relay Station for Mexico

Robert Phebus, RR3, Box 206, Laporte, Ind., seems to have a private connection to the Mexican stations. "I have 52 bcb. Mexican stations now operating. I get XEMO like a 50,000-watt Chicago. The following come in almost like locals:

XEFI, XEBC, XEAO, XEFB, XEOX, XES, XEAW, XEU, XFB, XFD, XFX, XFC, XEO-XEFO-XFO. On the other hand I have but 38 bcb. in Canada with the Maritime Provinces, Quebec and Ontario still out. XEPN reports a station operating on 760 as XENO, Ciudad Victoria, Tamaulipas and another as XERO. XEPN seems to work with both stations but neither is listed. Can anyone throw any light on either XENO or XERO?"

"I have been DXing for five months now and in that time I have logged 132 bcb. and 120 sw. using an RCA-Victor 122 six-tube Globe Trotter with a 50-foot two-wire antenna phased at the center to reduce electrical interference. A twisted leadin is coupled to the set by means of a matching coil. The antenna is in the attic and is NW-SE." Thus writes Lloyd G. Holmes, P. O. Box 640, Chatham, N. B. "On the bcb. I have logged stations in 33 states and six provinces. I am a member of the International Broadcasting Club of London, England, and would appreciate letters from other members."

Eric Butcher, Cokeville, Wyo., is one of our leading joiners. He signs as a member of the CDXR, ISWC, IDA, IBC, KDXC and the NNRC. Says he: "HHK on 920 kcs. came in R6 here on their special and XEBT R7. B. c. veries back from XEWZ, JOQK, JVT, Radio Coloniale, Paris, WNBR, HJ4ABE, X2AH, CFJC, CJRM, W6XAI, WLAP, CFQC and many others. If veries are wanted from XEOK, XEFL, XELO, send ten cents to Doc, Morris Associated Broadcasting System, Box 6, San Diego, Calif."

#### You Auto DX

"Have any of your readers tried DXing with an auto radio?" queries David B. Birrell, 35 Bradford St., Brighton Station, Rochester, N. Y. "I have a 1934 GE auto radio, model C-41, in my Plymouth sedan and I have logged and verified the follow-

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## NOTHING BEATS HEADPHONES for ALL-WAVE TUNING

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RADIO MFG. CO.  
Dept. RX5  
1528 Armitage Ave.  
Chicago, Ill.

ing among many others: WWL, WKBF, WIBW, WMC, WREN, WSUI, WTIC, KFI, WCCO, KPO, WFEA, KMOX, KSL, WRVA, WSB and KSOO. Every one was picked up while I was driving my car inside the city limits of Rochester between 6 p. m. and 2:30 a. m. EST. I would be much interested to hear from any other reader who has tried this wrinkle in DXing."

"The first day I had my Grunow 11-tube I received YDA, VK2ME, VLZ, EAQ, the London stations and, much to my surprise, 2RN in Dublin, Ireland," exults Charles Dooley, 731 Elberon Ave., Zanesville, Ohio, with good reason. "I have an RCA Brownie balanced s. w. aerial which cuts out most all of local interference. I would like to hear from other owners of the Grunow." Charles postscripts: "Your magazine certainly must have some circulation for when I asked for advice on a new set I received letters galore from all parts of this country, Canada and Mexico."

"Although I have logged 676 stations on the bcb.," notes Frank Wheeler, 406 Eagle Point, Lakeside, Erie, Pa., "there are plenty left for me to work on. I lack 28 in the U. S., 20 in Canada, 43 in Cuba, 42 in Mexico and 607 in other countries. I have received 1YA nine times in succession, that is every time I

have DXed in that period of time. Since my last report I have received CRCW, CMCJ, 10-AK, KFUE, WIS, KFXJ, WHDL, WDNB, KOY, KGIW, KOMO, CFLC, CKX, CKWX and CKOV. CHNS sends a picture of their vertical radiating tower at Bedford, N. S. and a 50-page book."

#### **Texas is Massachusetts' Local**

Away up in Greenfield, Mass., H. A. Brown finds his best source for NBC programs to be WOAI, San Antonio, Texas! That's going a long way for a local. Says he: "I am a new comer. On February 21, I bought an American-Bosch 7-tube all-wave set. I haven't had much luck with the sw. having logged only ten of the principal stations by their announcements in English. In two weeks, however, I have positively identified 83 stations on the bcb."

"The veries are coming in very slow," bemoans Clifford Drain, 617 Camden St., Parkersburg, West Va. "My best are LR5, KGU, KGMB, WKAQ, PP, Rennes, Radio Normandie, Bordeaux, Leipzig, I1MI, I1TO, I1TR, CP4, YV1RC, CT1GL, TGW, HIH and VE9EK. The first four were verified in 1934 and the balance this season. I still have reports out to Berlin, Munich, Frankfurt, HJN, LR4, LR6 and the new 1YA in Auckland, N. Z., 2BL in Sydney and 4RK in Rockhampton."

"My Echophone 18 sure has been a boon to me," declares Raymond S. Swenson, 2325 Tenth Street, Rockford, Ill. "My log stands at 718 stations with 523 verifications. My latest of note are 3HA, 2HD, 2UW, Bordeaux, PP, KGMB, VE9EK and 10-AK. I heard and identified ten TA's during the last two weeks in December. Right now the TP's have very good signal strength; 2BL, 2GB, 1YA and 4QG come in R7 nearly every a. m. It was JOQK I received; I have never heard JOOK."

#### **Verifies JVT**

"The Australian and New Zealand stations have been received the best

ever on the bcb, in the last few weeks," writes O. Ingmar Oleson, Ambrose, N. Dak, under date of March 7. "During this time the s.w. reception has not been as good as usual but it is improving again. I use a Scott 12-tube deluxe receiver and would like to compare notes with other users of this model. I have finally received a veri from JVT covering reception last fall."

"Starting DX the latter part of August with a 5-tube Majestic, Model 59, in six months I have heard 13 countries on four continents," is the excellent record of Paul V. Trice, 379 Grant St., Sharon, Pa. "Among the best were CFCT, TGW, KGU, XEAF, 4BC, WKAQ, LR5, HJN, HIX, 1YA and Normandie. I hear 1YA as early as 3:30 a. m. EST."

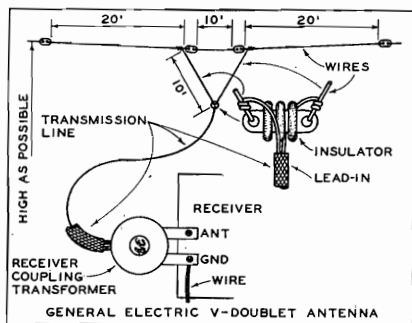
"I am a little afraid to present my small log," modestly writes Reginald Vining, 105 Tompkins St., Cortland, N. Y. "At this time I have logged 321 stations in 43 states, Canada, Mexico, Cuba, lower California, Puerto Rico and Guatemala on my Philco 4-tube midget. I consider KPO, TGW, KVI, KTM, WNEL, TGW, XFX, XEBC, and CKY my best catches to date. CRCW writes me they are on the air from 5:30 p.m. EST until 11:15 p.m. at present. I would like to correspond with any DXer. Will answer promptly."

"Purchased a Philco 144-H January 23, 1935, and started DXing," briefs A. E. Steyer, 1414 West 85th St., Cleveland, Ohio. "To date I have logged 274 stations on the bcb. On sw. I have sent reports to CT1AA, EAQ, DJC, 12RO, PCJ, YV6RV, HJ4ABB and PRF5. On March 1, Pontoise, France, could be heard all over the house. 'How am I doin'?' I'd like to communicate with anyone anywhere using the Philco."

#### **Who Spoils KDKA?**

"Can it be that one of those wandering Cubans has got on 980?" queries Dr. M. Dean Miller, 1100 Cadillac Blvd., Akron, Ohio. "KDKA  
(Continued on page 42)

# The New G-E "V" Doublet Antenna



**T**HE General Electric Company has developed a new type of doublet antenna. It is called a "V-doublet," and can be used with any type of radio receiver. The antenna responds admirably to all wave bands now in use, but this uniform selectivity is due to the arrangement of the antenna.

The system incorporates a doublet, the center portion of which takes the form of a "V." Signals intercepted by the doublet are fed to the receiver through a balanced, twisted pair of lead-in wires. This transmission line is coupled to the receiver through a specially constructed receiver-coupling transformer. The transmission line is noise-eliminating, and electric impulses of static from local sources cannot affect it. In the "V-doublet" system, complete rejection of signals picked up along the transmission line is accomplished because of the specially balanced design of the coupling transformer and the established length and impedance of the transmission line.

## Installation Is Simple

The design of the "V-doublet" antenna system is not complicated, and its installation is very simple. As shown in the drawing, the horizontal

portion of the antenna should be as high as possible above the effective ground surface. A high location removes the antenna top from the field of "man-made" static interference. However, the antenna may be placed as far as 500 feet from the receiver in order to get away from automobile highways simply by adding the required length of transmission line to the 100-foot length supplied with the antenna system. But not less than 100 feet of transmission line should be used. This line has a definite impedance and it is twisted in a certain manner. Ordinary, twisted lamp-cord cannot be used.

Each half of the doublet is 20 feet long. Insulators are used at both ends and at the center where a spacing wire 10 feet in length is placed. The sides of the "V" are each 10 feet long. At the bottom of the "V" an insulator is used to support and insulate the ends of the doublets and the transmission line, as shown in detail in the drawing. The antenna must not be stretched too tightly, but should be allowed to sag so that the center portion of the doublet is about 3 feet below its ends.

## Good Ground Important

The receiver-coupling transformer is attached to the antenna and ground terminals of the receiver. Then connect the transmission line to the terminals marked "T" and "L" of the transformer. Any remaining portion of the line should not be cut but coiled in the rear of the receiver. A short wire from the ground terminal of the receiver to the nearest cold-water pipe must be attached. The importance of a good ground cannot be overestimated, as the degree of noise reduction will depend on this.

The General Electric "V-doublet" antenna comes complete in a kit ready to be installed. The doublet wires are coiled at the top of the box with the transmission line coiled beneath. All

connections are soldered and it is only necessary to hang the antenna up in its proper place by carefully unpacking and uncoiling the wires in the kit, run the transmission line to the receiver, attach the coupler, and everything is ready for use.

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## My Radio Experiences

● ● ● By OLIVER AMLIE\*



**I**T WAS back in 1919 that I built my first radio set—a crystal receiver of my own design. My DX record on this was Denver, Colo. When tubes began to be available in 1920 I built a Hammarlund-Roberts three-tube set. On this, to my great satisfaction, I received three California stations. This set me at DX in earnest. In the International contest which old-timers will remember—the eastern U. S. stations were silenced—I received Spain, Costa

Rica, Mexico, Alberta, Cuba and California—six countries. I took fourth place in this contest.

In 1930 I became interested in short-wave radio and built a number of sets with which my results were nothing to brag about. I then designed my own s. w. receiver and, after a couple of evenings, using two 201-A and one 12-A type tubes, I received on the speaker G5SW, France, Rome and, on a Sunday morning in June, 1931, I picked up Australia. I received my verifications from VK2ME-VK3ME in September, 1931.

Then came a national short-wave contest sponsored by a radio magazine in which a trophy was presented each month. Nine trophies were won by other fans; I tried but lost. The next time I tried I received 140 stations in two weeks, received honors for 94, and the trophy was mine in spite of the fact that I had used the smallest receiver and the oldest type tubes.

Soon after this contest the Australian Broadcasting Commissioner asked me to report regularly on the signal strength of their three stations, 2ME, 3ME and 3LR. I have sent from two to four reports each month on VK2ME, four to ten on 3LR and three to five on 3ME. These reports are to continue until September, 1935.

The circuit of my three-tube receiver has become somewhat famous as a result of my work and I will be glad to send a copy of the circuit diagram to any RADEX reader who sends return postage.

\*56th City Line Ave., Overbrook, Philadelphia, Pa.

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*The RADEX Radio Map of the World with Time-Converting Dial tells the time for the whole world. Price 25c postpaid.*



# Notes and News of the I. D. A.

••• By JAMES T. SPALDING\*

**G**REETINGS DXers! We thank you all for the splendid support given this column in the short time it has appeared. We have been quite busy answering letters from friends who liked the page. Now for a few notes.

Several reports have mentioned a new Panama station, HP5J, on 9590 kcs. There is a Spanish speaking station on that frequency, but we are not sure where it is, as no calls have been heard in English.

Bill Ellis of Hughson, Calif., Director of the Second I. D. A. District, is planning an amateur relay for sending DX news and tips to our Anzac members. Fine work.

The I. D. A. contest for the handsome Randolph Trophy and other valuable awards is attracting many entrants and bids fair to be a very exciting race. More news in next month's issue.

Paul Fendersen, radio editor of the Honolulu Star Bulletin and I. D. A. representative, says Hawaii is a DXer's paradise and proves it with a fine log of Japs, Anzacs and U. S. stations.

Reports of good TA and TP reception have been received from John Shanks of Tennessee, G. T. Magee of Alabama, and Helsing Gustafson of Illinois. Mr. Magee also heard VPD.

Two new stations which should be heard by all SW fans are TI6OW. Puerto Limon, Costa Rica, on 7000 or 7070 kcs. and Hector McCormick's HJ2ABD on 5960 kcs. in Bucaramanga, Colombia.

Watch for the very special I.D.A. program from RNE and RKI on May 5, from 8:00 to 9:00 a.m. EST, which was arranged by John DeMyer of Lansing, Mich.

Oliver Amlie of Philadelphia, who needs no introduction, writes us

that VPD, Suva, Fiji Islands, is not a new station but, on the contrary, it owns and operates VK2ME and that he has personally seen a VPD veri dated August 5, 1929.

The latest British Globe Circler reports very bad MW or BCB reception in Europe, but we would be very well pleased to have half as good a log as some of the English members report. Some of the stations most frequently heard over there include WNEL, WBT, KMOX, KOA, LSZ and WTIC. The editor of B.G.C. recently made a very interesting tour by auto of Germany, Belgium and Austria in company with three university friends.

Bob Hamilton of Saltcoats, Scotland, reports reception of VK2ME, W8XK and other fine DX on his three-valve all-wave set.

We were very pleased recently by a card from A. C. Baker, who is now in Brussels in charge of electrical work at the British section of the Exhibition there. Art is a champion DXer, an ardent I.D.A. fan and a fine chap.

Emmet Iniver of Dunedin, N. Z., reports good U. S. reception from "down under" as does George Ingle of Narrabie, N.S.W.

It took plenty of work to keep our promise of free "Globe Circlers" to interested DXers but we kept our word and herewith report several new members and numerous prospects gained from readers of this page. The offer of a free copy is still open. All that is necessary is a postcard or letter requesting same to the address below or to I.D.A., 1018 Prairie St., Bloomington, Illinois. You'll get it!

Good DX is reported by George Haylock and H. M. Blaber, charter members of the London Chapter which has already outgrown its pres-

ent quarters. Other chapters have been formed in Lansing, Mich., Bloomington, Ill., two large ones in Los Angeles and our friends Elsdon Jones of Bermuda and George Milligan are busy with plans for chapters in their respective localities.

Charlie Miller of Covington, Ky., is logging plenty of 20 meter hams and other SW catches.

Lloyd Westmoreland, of Regina, has joined the publicity staff and is doing fine work on that and DX reception.

According to Senor Enrique Linares, Jr., our Panama representative and Chief Engineer of HP5B Radio Panama, they will again DX for I.D.A. on June 14 and will dedicate special selections to some of our foreign members, so you fellows watch for this program. HP5B is on 6030 kcs. and the Globe Circler was the first magazine to report this station and I.D.A. was the first club honored by a DX program.

Our Department of Foreign Affairs, whose duty is the arranging of foreign programs, has had a most successful season. Under the able direction of Vice President Randolph Hunt, programs were arranged from nearly every country in the world, many of these being from stations that most DXers previously had not had the opportunity of logging.

The German SW stations recently sent us a victrola recording of their familiar chimes, call and two folk songs in appreciation of our reports concerning reception of DJA, B, C, D, C, O and N,—a V.F.B. souvenir.

While on the subject of reports we advise DXers to make them interesting and informative. Note such items as tone, audibility, fading, Q.R.M., make of receiver, aerial and, when possible, a comparison of reception with a station in the same locality as the one reported is desirable. Never fail to include a reply coupon. Local coin or postage is useless in a foreign country.

And now, with the request to con-

tinue your reports and note our new Q.R.A., we must until June say . . . Good Dxes, Vy 73.

\*Director of Publicity, 3524 N. Western Parkway, Louisville, Ky.

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## The CRCS DX Program

**D**UE to interference from another station on the same channel as well as to adverse weather conditions, the special RADEX program from CRCS, Chicoutimi, Quebec, on March 3rd, was not as widely received as had been hoped for. The most distant report was from Ray E. Everly, 102 West Washington Street, Newton, Ill., while the most distant in Canada came from L. Scourfield, 299 Tunis St., Ingersoll, Ont. To each of the above a year's subscription to RADEX has been awarded.

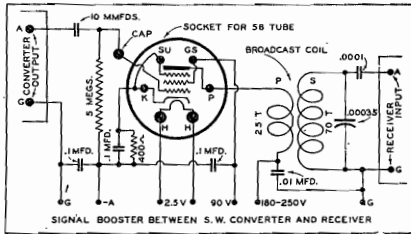
The most helpful report and the most valuable to the station engineers was received from H. E. Pippy, 18 Currie St., Glace Bay, N. S. "The report sent in by Chas. L. Morgan, 800 East 179th St., New York City, is by far the neatest bit of work we have ever seen and shows considerable effort and painstaking care by Mr. Morgan," comments J. E. Roberts, Engineer in Charge, CRCS. We are therefore duplicating the award and sending a copy of "The Beginner's Story of Radio" to both Mr. Morgan and Mr. Pippy.

The eleven next most distant listeners to report this program were from Rockford, Ill., Harvard, Ill., Rocky River, Ohio, Neenah, Wis., Proctorville, Ohio, Genoa, Ohio, Detroit, Mich., Dimondale, Mich., Akron, Ohio, and Beaver, Pa.

"CRCS will be pleased to present another DX program for RADEX at some future date," adds Mr. Roberts.

# The Monthly Clinic for RADIO PROBLEMS

• • • By THE TECHNICAL EDITOR



**I** USE a Stewart Warner short wave converter, model 301A, with my Atwater Kent broadcast receiver, model 55C. I have read about signal boosters for use between a converter and receiver, but as I do not know much about making one it will be appreciated if you will give me clear instructions, especially as to the connections to the tube. I will need all the information required so I can get the proper sizes of the parts needed.

The use of a signal booster is not always to be advised. In many cases it cannot be of much assistance as the signals are about as strong as they should be without too much noise entering into the final results. However, as a booster is relatively simple to set up, and is always worth the fun of experimenting, a circuit for a simple booster is shown in our drawing.

The specifications of the coil used as a radio-frequency transformer for the converted broadcast-band signal are the same as for any r.f. transformer in a broadcast receiver. It may be wound on a tube about two inches in diameter with No. 26 cotton covered wire. The primary should have about 25 turns and the secondary about 70 turns. A space of  $\frac{1}{8}$  inch is left where the primary ends and the secondary begins.

A type 58 tube may be used, or a type

57 just as well. The socket is shown, looking down upon the top, and the connections to the terminals are indicated. The secondary of the broadcast transformer is tuned with a .00035 mfd. capacity variable condenser. The circuit is tuned to 300 meters or whatever point reception is best when the converter is used. The values of the bypass condensers and resistors are all given in the drawing. The operating voltages may be taken from points in the receiver or separate batteries can be utilized.

## Converter Fails Below 22 Meters

*My short-wave converter fails to pick up signals below 22 meters. It originally worked well in the low waves. What shall I do to restore the low-wave band to operation?*

Failure of a converter, or any short-wave device, to operate below 22 meters usually indicates that the oscillator is not functioning. It is difficult at the best to create the high rate of oscillations needed to beat against the extremely rapid incoming frequencies. When the oscillator tube weakens it fails first on the high frequencies, and very often the mere substitution of a new tube will bring about perfect operation on the very low waves.

## Dial Seems To Slip

*My Philco 112 will be tuned exactly to 1500 kcs., and a 1500 kcs. station will come in exactly as tuned. Then, after a while the station can be heard changing its frequency, and I have to reset the dial, say, to 1495 or 1505 kcs. This also occurs on other frequencies. The set gets out of line from 2 to 10 kilocycles. I have been told that the trouble is "dial-slipping" but I have watched carefully and the dial does not move at all.*

Although your trouble is often called "dial-slipping," this is simply a term used to express the fact that the station signal appears to slip in its position on the dial. This is frequently due to temperature effects in the tuning and trimming condensers. The tuning condenser shaft may bend slightly when the heat increases, making the rotor plates diverge, thus slightly changing the capacity of the tuning condenser. The rotor shaft may, in expanding, move the plates lengthwise, accounting for the trouble. Also, any condenser plate, and even the trimmers, if it warps or bends ever so slightly (measurable only with micrometers) due to heat, can cause sufficient capacity changes to throw the dial off its original setting. Other parts in the circuit may also be responsible. Remove the chassis from the cabinet and operate it in a cool place where a good circulation of air is present and see if the trouble persists.

#### **Noise With Loud Volume**

*I have a Scott all-wave 12-tube receiver. I can not turn on much volume without getting a noise like pulling on a taut rosined string. It is worse on the short waves. The makers of this set have examined it and report it to be in good shape.*

Your report seems to indicate that the radio-frequency or intermediate-frequency stages are adjusted to unstable positions. It might be sufficient in remedying this trouble to "stagger" the tuned circuits, that is, adjust every alternate one slightly off resonance, both above and below the peak frequencies. If this does no good, the instability will probably be found due to failure of one of the plate or screen bypass condensers in the r.f. system. This trouble is quite distinct from lack of sensitivity as the latter may be due to a faulty tube, poor circuit adjustments, or a defective part. A good service man should be able to make the "staggered" adjustments using oscillator meters, but the problem is purely an experimental one.

#### **A.V.C. Blasting**

*My receiver has been returned to the makers three times and it still blasts and distorts when on a station for a while. It is the automatic volume control that causes the trouble.*

Although the effectiveness of the a.v.c. circuit throughout the sensitivity range for which it is designed, may be reduced, our suggestion is to place a high resistor from the plate to cathode of the a.v.c. tube and another of equal value from plate to ground. A value of from 5 to 8 megohms is advised.

Sometimes a.v.c. blasting may be traced to an improper selection of values for the resistors and capacities in the a.v.c. circuit or filter. By simply changing values here, this trouble can often be cleared up. These values are not at all critical.

#### **Short-Wave Harmonics**

*My model 59 Majestic works quite normal in the daytime, but late at night when the broadcast stations sign off, amateur and police stations of 160 and 170 meter bands come in on the broadcast band. The amateurs come in five to ten points of the dial on either side of 300 meters, or just double their normal wave. The police also appear at 750 kcs., and with greater volume at 1500 kcs.—in fact, between 1480 and 1550 kcs. The set is selective, and the antenna is 80 feet long.*

From your description it appears that the second, third or fourth harmonics of the oscillator in your receiver is combining with the fundamental or second harmonic frequencies of the undesired police and amateur phone stations.

While you cannot avoid these signals on their fundamental frequencies, you can avoid this harmonic interference by properly shielded and adjusted input system. You have a rather long antenna, and we suggest cutting it in two.

A wave trap in the antenna circuit of the parallel-resonant type in series with the antenna, properly shielded,

should stop this trouble. The wave trap is then tuned to the frequency of the undesired signal. Such a trap is shown on page 22 of the March, 1935, issue of RADEX.

#### Majestic Tubes

*Please tell me if there any substitute for the G2S tube in the Majestic model 210 receiver. I find it hard to get this tube from the local dealers in this small town.*

Several tube manufacturers make tubes for the Majestic receivers with characteristics similar to the original Majestic tubes.

If you wish to replace the Majestic G2S tube, we suggest the use of a Sylvania type 2S. You will find that its characteristics will match those of the Majestic model G2S as the tube is made to replace the latter.

#### Image Frequency

*I purchased a Philco model 118 and notice that on the short waves it reproduces groups of stations along the dial at such places as to make me believe that they cannot be harmonics. The set also picks up several harmonics of broadcast stations on the short-wave dial; I understand this is natural and as the set works nicely otherwise I fully expect this latter trouble. Is there anything wrong with the set which requires fixing?*

From your description it appears that you are receiving image frequencies. These are signals which find their way through the pretuner when it is set as much above the oscillator-frequency as the latter was originally above the signal frequency. To make this more clear, for example, if you can receive a station by tuning to 10 megacycles, the oscillator frequency (assuming it to be 465 kcs.) is 10,465 kcs. This is 10,000 plus 465, or 10,465 kilocycles. Now, when the receiver is tuned to 9,170 kcs. the oscillator really is performing at 9,535 kcs., and the 10 megacycle signal will be received because the difference between 10 megacycles and the oscillator frequency is 465 kilocycles—the same as the oscil-



J. Herbert Hyde, Elmwood, Conn., in his "radio corner" with his 16-L Philco on which he has logged 467 stations, positively identified, with 192 verified. He has now verified 30 stations 2000 miles or more distant. Mr. Hyde is a member of the NNRC, the Chicago S. W. Radio Club, the CDXR, and the N. Z. DX Radio Assn.

lator. This proves that the input wave trap, as well as the pretuner, must be adjusted more perfectly and all shielding faults, if present, must be corrected to prevent this image-frequency reception. Your service man or the dealer selling the set can make these adjustments without difficulty.

#### Tube Functions

*Please tell me the locations and functions of the tubes in my Stewart Warner 102B receiver, and also in my 301B short-wave receiver. This set gets weak and sometimes cuts on and off. Why is this and can it be improved?*

The tubes in the 102B receiver are: first detector—a 24; second detector—a 24; oscillator—a 27; intermediate frequency—either a type 51 or 35; pentode power output—80. The intermediate frequency of types PZ or 47; and rectifier—an this receiver is 177.5 kilocycles.

Looking down upon the set, from the rear; left rear is the i.f. 35 tube; right rear is the 47 power output; rear center is the 24 second detector. In the second row across, from left to right, first detector is a 24 tube; center is the 27 oscillator; and the right is the type 80 rectifier. The type 301B converter has two tubes—a type 24 detector and a type 27 oscillator. The plate supply plug should connect to a 250-volt source.

We believe that reception can be improved in this set if you remove the 500,000 ohm resistor that is *between* the control grid of the 47 power output tube and the point where a bypass condenser and another resistor connect together. Move the 500,000 ohm resistor over close to the condenser just mentioned but *between* it and the other resistor's point of contact. This reduces the resistance in the biasing circuit of the control-grid of the pentode power tube.

#### Aerial Condenser

*Tell me about the aerial adjustment on my Silver Marshall model Q receiver. Does it tune the short waves or the broadcast band? The set does not read correctly on the dial. Can this also be corrected?*

The antenna compensating condenser is connected in series with the antenna. It is a small trimmer condenser of about 25 mmfds. capacity and is used only to tune to the length of antenna used, so as to give maximum selectivity and volume on all the wave bands.

If your receiver is off on its calibration it means that the trimmer condensers require adjusting. This

usually is a job for the serviceman.

The two large variable condensers on the dial shaft have small trimmer condensers shunted across them. If these are properly balanced the tuning of the dial should track nicely. You can make the adjustments by tuning to three stations, one at each end of the dial and the third in the middle, and then setting the trimmers for maximum volume and proper reading on the dial. This is a tedious job. Use an insulated tool when turning the movement on the trimmers. Then each of the three intermediate-frequency coils or transformers also must be tuned, that is, the primary and secondary coils brought into proper i.f. resonance by adjusting the small trimmer condensers shunted across the two coils of each transformer. These trimmers are accessible from below the three aluminum cans shielding the three i.f. coils.

#### Leaking Condenser

*I have a Stewart Warner 1109-R 110A receiver. One of the filter condensers is corroded and a fluid of some kind leaks at times from the top of the can. What is wrong with it?*

From your description it seems evident that the electrolytic filter condenser is defective. It must be replaced. As long as this type of condenser does not leak and causes no great amount of corrosion at its terminals and does not pass more than one-quarter of a milliampere per microfarad of rated capacity it may be considered to be in good condition. But when the liquid leaks out much of the electrolyte is lost and the effectiveness of the condenser is seriously reduced.

In purchasing a new electrolytic condenser unit we suggest removing the old one and use it for a sample to determine the proper size so the new one will fit your chassis. It is hardly necessary to procure a capacity larger than 8 mfd., to the

section, and four sections is about the limit.

### Image Frequency

*I have a Philco model 16B receiver that seems to be troubled with some image frequency. Do you think that a preselector will prevent this? Also, I use a 5Z3 tube in the rectifier socket of this set?*

Because of the multiple band arrangement of the Philco 16B receiver, the use of a pre-selector is not advised. A wave trap is provided in the antenna circuit of this receiver to eliminate image frequencies. Perhaps it is only maladjustment of this wave trap that is causing your trouble. Careful adjustment of the circuits as well as selection of the proper tube in the first detector will contribute to the suppression of image interference. The type 80 rectifier may be replaced directly with the type 5Z3 tube, but no particular advantage would be obtained. The 5Z3 tube is designed to handle more power and need not be used unless more power is actually required to operate the tubes. This is not the case in your receiver.

### Interference On S-W Set

*I have built a short-wave set that works nicely, but I get harmonics of our local broadcasting station at several points on the dial. What can be done to eliminate this unwanted reception?*

Quite frequently in short-wave receivers broadcast stations will be received covering the dial almost completely. The antenna circuit in your set is not tuned intentionally and therefore signals of every frequency will impress themselves on the control grid of the amplifier. If there is no tuning in the plate circuit of the tube all of the signals will be subsequently amplified and their relative intensities will be changed in accordance with the circuit through which they pass. A considerable amount of detection of signals there-

fore often takes place in the first tube of the circuit, especially at high signal levels such as local broadcasting stations, and any carrier energy will carry this modulation into the regenerative circuit.

To avert such trouble the antenna circuit should be tuned to the frequency desired, and the first r.f. tube should be of the vario-mu type. Furthermore, a series antenna condenser of small capacity should be used to reduce this signal strength. Next, the regenerative detector should be adjusted for high selectivity by operating it extremely close to the critical point of oscillation. Of course, if the first tube acts as a detector, no amount of selectivity introduced into the regenerative detector can do any good in eliminating the undesired signals. The third caution is to be sure that the circuits are well shielded. They pick up



*You pronounce it — "Parkeyakakas" — Greek dialectician and stooge of Eddie Cantor. Off the air he is known as Harry Einstein, a former advertising executive for a large New England furniture company, who deserted the business world at the behest of Cantor. They are heard each Sunday over the Columbia from 8:00 to 8:30 p. m. EDT together with Ted Husing and Dave Rubinoff's orchestra.*

signal energy directly from nearby stations without the use of an antenna. We are sure that careful attention to the points outlined above will result in success.

### Rebuilding Difficulties

*My Silver Marshall 726 SW receiver might be improved a lot if I should rebuild the circuit and install some modern parts. Please tell me how to go about this and what new parts I should buy.*

When we desire to make changes in receivers it is well to consider the receiver as originally designed with a thorough technical understanding. It must be remembered that it is the cooperative value of the various parts in a receiver that goes toward its excellence of performance. Obviously, if we change the electrical specifications of one part, many of the other parts of the receiver must be changed to take advantage of an improvement which the one part may have.

A fair example of this is seen in a wholesale change in tubes. If we switch from a screen-grid to a pentode tube, for example, we must change the socket, the transformer coupling the tube to the next tuned circuit, the shielding of the tube, the power supply taps to feed the screen voltages, the cathode bias resistor, the volume control, the by-pass condensers, and other items. This, of course, is an extreme case, but nevertheless shows the idea plainly. Some simple changes, such as type 56 tubes for 27s, are satisfactory. Occasionally some new type tubes can be substituted for other older types merely by using adaptors that can be purchased for this purpose. A rebalancing and alignment of the set should then be in order.

### Lowered Sensitivity

*My Midwest 16 receiver has a whistle on the 800 to 900 kilocycle portion of the broadcast band. I moved the grid lead wires of the tubes as far away*

*from other wiring and parts as was possible. But this has not stopped the whistle. And now the set is weaker and seems to have lost sensitivity.*

The reduction of sensitivity may be attributed to a weakening of the tubes of the receiver due to reduction of electronic emission, accumulation of gas, metallic deposits on the elements, and other causes. Because of the cooperative nature of these tubes, it often is necessary to replace all of them at once in order to remedy such trouble.

The description which you have offered of the whistle is not sufficiently clear for us to judge its source. It may be due to self-oscillation for which there are a number of conventional cures, such as reduction of plate voltage on the r.f. and i.f. tubes, reduction of screen voltage, the correction of plate and by-pass screen troubles, proper biasing of these tubes, proper shielding precautions of repairs, and proper positions of the leads to the control-grid and plate circuits. The whistle might also be caused by image interference or actual heterodying between two stations in the section of the wave band you have mentioned.

### 10 K. C. Selectivity

*I have a model 750 Grunow receiver that seems to tune rather broadly. It does not have the 10 kilocycle station separation that I have always believed existed in radio sets. My local dealer states that this set is made to tune broadly so as to get good audio reproduction and tone. Its tone is good, of course, but I would like a little more selectivity.*

The selectivity of one circuit is increased by reducing its a.c. resistance or reactance, and the selectivity of a series of circuits, such as comprise your receiver, depends upon a number of well-balanced units and cooperating values. Selectivity is increased when the coupling between the circuits is reduced or



when the gain of the circuit is toned down. The oscillator circuit in a superheterodyne furnishes but little selectivity. On the other hand selectivity can be reduced by a great increase in antenna length.

The term 10 kilocycle selectivity applies only for a definite signal, a definite antenna length, and other very definite specifications. Otherwise no receiver can be said to have 10 kilocycle selectivity over its entire wave range. When it does have too great a selectivity it then shows a tendency to distort and force the entire range of audio frequencies through a narrow band of tuning. Now, we cannot determine exactly what the selectivity of the Grunow model 750 receiver should be, but we wish to state that any receiver, regardless of make or model, is subject to proper adjustment and, when necessary, replacement of various items so as to improve its selectivity and sensitivity.

The main factors contributing to lack of selectivity in a receiver after it has been operating for some time are: Gas in the tubes; this lowers their grid input resistances. Then moisture gets in the coils and dielectrics and ruins their constancy of resonance. Dust between the plates of the tuning condensers and on other parts causes leakage of the r.f. currents. Excess plate voltages and, in fact, any characteristics which results in a greater gain of the r.f. and i.f. circuits will tend to broaden the tuning and lower selectivity. Investigation into the matters mentioned should result in improvement in this otherwise excellently manufactured instrument.

#### Utah Speaker

*While doing some experimenting on my Utah loud speaker I loosened two screws on the top of the cover. The nuts dropped off, but some rivets prevent the entire removal of the cover and cone and therefore I cannot re-*



*Jolly Coburn of the Spartan Triolians (NBC-WJZ, Sundays, 4 p. m. EDST) is a veteran broadcaster. He directed an orchestra over WJZ back in the early days. Last year he was selected to open the Rainbow Room atop the RCA building in Rockefeller Center.*

*place the screws. Will it do any harm to use the speaker with the cover loose and the screws out?*

The speaker chassis is supported by more than the single screws which you have loosened. If vibration of the loose parts does not cause trouble there is no harm in allowing them to remain as they are. If the screws do cause trouble through vibration we suggest unriveting the cone assembly and replacing the rivets with screws. This speaker is quite simple in design and you need only follow simple mechanical rules to correct the difficulty.

#### Reason For Blue Glow

In the February issue we mentioned the blue flicker or glow observed in some tubes. The Technical Editor of "Sylvania News," published by the Hygrade Sylvania Tube Corporation and which some of our advanced readers might wish to obtain by subscription from Emporium,

Penna., has provided this department with some valuable hints about the blue glow in tubes.

There are three different types of blue haze which may appear while tubes are in operation—fluorescent glow; mercury vapor haze; and gas.

The fluorescent glow is usually of violet color and is noticeable around the inside surface of the glass bulb. The glow changes with the intensity of the signal and may become at times very brilliant. This glow has no effect on the operation of the receiver and need give no concern as it merely indicates a characteristic of the tube.

Mercury vapor haze is a blue glow noticeable in certain rectifier tubes—namely types 82 and 83. The perfect operation of some rectifiers is dependent upon a mercury vapor which comes from free mercury that has been placed in the bulb during the course of manufacture. This blue haze is in no way detrimental to the operation of these tubes.

But, gas in a tube produces a blue haze that is usually confined to the vicinity of the plate and filament structure. Its presence, when of large content, affects the operation of a receiver to the extent that erratic performance is noticeable. Gassy tubes should always be replaced with new tubes.

Most of the blue flicker which is noticeable in the larger power output tubes is due to electronic bombardment within the tube and is of a cathode-ray nature. This blue glow is apparent usually in tubes using barium (such as Sylvania). This gives a lower gas content and more uniform operation.

This, then, may create considerable doubt as to what constitutes proper blue haze or actual trouble. Rectifier tubes can be eliminated as blue glow is natural with them. Power tubes, too, as a rule, show this characteristic glow. A simple test is to bring

a strong steel magnet close to the tube bulb. A gassy tube will not be affected and the tube should be replaced. But if the glow is simply a natural fluorescent phenomenon, the presence of the magnet will shift the glow about in the tube as the magnet is shifted around the bulb.

## More Loop Experiments

• • • By H. E. Frost\*

**A**FTER reading J. L. Edmiston's comments in the March issue on the use of a loop, I am prompted, for the benefit of some of your readers who may desire to try out a loop on their own set, to give my experience covering about three years on my Atwater Kent, early model 55, t. r f. receiver.

I consulted with the serviceman of the distributors here and was informed that I could use a loop all right but would not get much out of town. I picked up an old Bodine basket-weave loop and began experimenting. I soon determined the most efficient connection and have been using it very successfully ever since.

The first tube of AK is preceded by a transformer, the primary of which is tapped for long and short aeriels. I connected one end of the loop to the long aerial post of the receiver and the other end to the stator of a .0005 mfd. variable condenser, the rotor of which I connected to the ground post of the set. I use neither ground nor aerial although there is no reason why both may not be used in conjunction with the loop. From 900 to 15000 kcs. however, the loop works better alone and loses most of its directional effect if an aerial is used.

As a test, last night between 10:30 p.m. and 12:30 a.m. I logged the following stations: KYW, CKLW, WTIC, CFCO, KNX, KTHS, WTAM, WBT, KMOX, WPG, WRVA, WISN.

KSL, and WAPI. WISN, 250 watts, Milwaukee, came in strong with ample reserve. On practically all of the above, the loop pointed E-W but for WAPI I reversed it to get better strength.

Without the loop I could not have tuned closer than three or four channels to WTAM on either side as their 50,000-watt transmitter is only about 15 miles from my home. I set the loop to neutralize WTAM. Salt Lake City on 1130, came in almost like a local.

\*10427 St. Clair Ave., Cleveland, Ohio.

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## Radio in 1922 and Now

• • • By Roy E. DeMent\*

**W**HAT a contrast in radio in 1922 and 1935!

In the former years, when radio was first being put to commercial usage, each station had its own varied programs, the larger stations being on 500 to 1,000 watts power. Now some of these same stations are on 50,000 watts and are connected with chain hookups, much to the disappointment of this listener.

In 1922, the Dallas News came out in one of its Sunday morning editions with a novel 1-tube (WD-12) set, easy to construct and easier to operate. Heretofore, I had only dealt with and built only crystal sets, no batteries and no tubes. The old galena or mixed metal crystal being used. I built this set, known by the name of "Shut-'er Down, Eddie" set (Eddie, being the operator at the Dallas News station at the time). Tuning was done by means of a variable 43-plate condenser and a slide coil. It worked fine, from the first and many were the thrills I received in logging broadcasters then called DX. Next came a one-tube audio amplifier built in another cabinet. On some stations this would pull a small

loudspeaker. I made several of these sets, each working as fine as my first one.

Then came the International Foreign Test in the fall of 1924. All American broadcasting stations were to stand by in a two-hour period at midnight, to permit American listeners to try for Europeans. My first night, was little more than a whim to try. The second night, there was a little more hope, for a friend came over with his amplifier and loudspeaker, but the latter or phones, all to no avail! The third night I tried again with my two-tubes. Needless to say, for it could never be expressed in words, what a thrill it was to hear coming over the ether waves, on a wee two-tube radio you had built yourself, the broadcasting stations 2LO, London, England, and 5SC, Glasgow, Scotland! I sent in my report and received a verification of having heard overseas stations during the test. This was in 1924, at which time I resided in Paris, Texas, the city of my birth.

Then moving to the plains country, where radio reception is supposed to be anything but good; due to the high and dry atmospheric conditions which prevail. Due to business I dropped the radio tinkering, losing out at the time all-electric sets came into existence.

Now, in 1935, I bought my first factory-built receiver, a seven-tube Super, with dynamic speaker built-in, on the first of the year. My first short wave station to be logged was EAQ, Madrid, Spain. Though I was mighty well pleased at hearing them, the old thrill wasn't there . . . it was not a home-made job!

In one month of DXing now, I have logged 43 foreign stations, to say nothing of the numerous hams, American Relays, police and airplane stations and the standard broadcast band.

Five years of real radio, skip eight

and though 1935 radio is much improved in numerous ways, here is one listener-in who still wishes that the old days were yet with us.

\*P. O. Box 206, Plainview, Texas.

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## The Reorganized Globe Circlers

By William G. Odenwalder\*

**T**HE Globe Circlers Radio DX Club was organized in September, 1932, by a trio of New Jersey enthusiasts. Growth was slow the first season, but, with its increasing prominence among the clubs, the membership soon rose more rapidly. During the first three seasons, 184 special programs were arranged through 146 stations. Fifty-two bulletins were issued bringing hundreds of DX tips to the members.

A reorganization took place in February, 1935, when the name was changed to The Globe Circlers DX Club. It is the only club in New York State. A membership drive is now being conducted. Fees are \$1.25 per year, 75c for six months and 30c for a trial period of 60 days. The president of the club is William H. Wheatley, 254 Cleveland St., Brooklyn, N. Y.; 1st vice-president, Murray Buitekant, Brooklyn; 2nd vice-president, Donald S. Voorhies, Brooklyn; 3rd vice-president, Irwin Beitman, Elyria, Ohio; secretary-treasurer, Raphael Geller, Bronx; CPC chairman, William G. Odenwalder, New York City.

\*501 West 123rd Street, New York, N. Y.

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*See the DX Log of the World for complete lists of foreign and short wave stations. Price 10c.*

## The Situation in Cuba

**D**UE to the great growth of stations in Havana and vicinity and the lack of control, the broadcasters have themselves petitioned the Government to require crystal control and assign definite frequencies to the stations so that the crystals may be ground to that specification. The Government has accordingly issued an order reallocating the channels to stations in and near Havana and, beginning, the 30th day of June, 1935, prohibiting the operation of radio stations of all classes in excess of 250 watts which are installed less than 500 meters from the boundary of a city. Stations will be suspended which fail to maintain a 50-cycle variable limit from their assigned frequency.

The following frequencies are designated "Bands of Foreign Daytime Frequencies": 544 to 576, 604 to 636, and 1284 to 1316. Following are "Bands of Foreign Nighttime Frequencies": 644 to 676, 684 to 716, 774 to 806, 844 to 906, 964 to 996, 1074 to 1136, and 1294 to 1316. Broadcasting in the first-named bands will be prohibited between 6 a.m. and 6 p.m. and in the last-named between 6 p.m. and 2 a.m.

The governmental order contains two lists of the assigned frequencies. These two lists differ in that they show the following stations assigned two different channels: CMBC, 940 and 1170; CMBD, 1170 and 1255; CMX, 910 and 920.

It is sincerely to be hoped that this step means a more positive control of our Cuban broadcasting friends. The crystal controls which are required will not only help to keep them on their assigned frequencies but the expense of such controls ought to be a deterrent to constant change in channels.

# Do You Want More Educational Programs?

**T**HE Federal Communications Commission has called a conference to be held in the city of Washington on Wednesday, May 15th, 1935, "at which time plans for mutual cooperation between broadcasters and non-profit organizations can be made to the end of combining the educational experience of the educators with the program technique of the broadcasters."

As our readers probably know there is a strong national organization which has been at work for some time to induce Congress to set aside at least one-quarter of the broadcasting channels for the use of the educational institutions and cultural organizations. The Commission indicates that although they cannot see their way clear to make such a recommendation to Congress, the Commission intends actively "to encourage the best minds among broadcasters and educators alike in order to develop a satisfactory technique for presenting educational programs in an attractive manner to the radio listeners."

We believe that our readers constitute the most important group of representative radio listeners in the United States. We would like to know their opinions in regard to this question which will be considered by the conference. If such an opinion is at all conclusive, one way or the other, we will see that it is presented to the Commission as the representative opinion of the radio listeners who constitute the "public" for whose benefit the Radio Act was established.

Will you, our readers, therefore fill out the ballot below and return

it to us at once in order that we may represent your position fairly? Immediate action is necessary as this conference is called for May 15th. If you do not wish to cut your copy of the magazine, please copy the ballot on a postcard.

RADEX makes no recommendations in this matter; it merely wishes to gather its readers' opinions and present them to the conference and to the Commission.

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## With the Editor

**T**HE May-June-July issue of the *DX Log of the World* will appear on the newsstands on May first with completely revised lists of all the broadcast and short wave stations of the world. As in the last issue, both broadcast and short-wave stations will be listed three ways—by frequencies and wave-lengths, by countries, states and cities, and by call letters. Anyone reading the letters from our readers published in RADEX must be struck with the increasing number who are picking up the foreign stations. You, too, will have that thrill one of these days and when the big moment comes, you will want a *DX Log* at hand to identify your station for you.

All those who would like to see a continuation of "The Beginner's Story of Radio" please say "Aye." "The Beginner's Story" will give anyone the fundamentals of radio and a clear understanding of just what goes on within a set. In our opinion, however, no one will ever really get a complete grasp of radio

Do you want more operas and classical music .....  Yes  No

Do you want more lectures and educational talks.  Yes  No

Mail immediately to The Radex Press, Inc., Hanna Bldg., Cleveland, Ohio.

until he actually builds sets. We are now mulling over the idea of a new series, "How to Build Radio Sets." It is our plan to get together a kit of necessary parts, reasonably priced, and ask Mr. Dashiell to prepare a series of How-to-Build articles.

#### **This is the Plan**

The first article might cover a simple regenerative set. The diagrams would call for the parts included in the kit. Our readers would then build Set No. 1 after which they would tear it down and use the same parts to build Set No. 2 which would be somewhat more advanced. The idea is that in this way our readers would learn exactly what happens when such things as chokes, grid-leaks, condensers, etc., are placed in a circuit. Each issue of RADEX would contain a How-to-Build article and these would be progressively more difficult. Wave-traps, pre-selectors, boosters, a.f. stages, etc., would be covered, all of which would use the parts contained in the original kit.

Each issue of RADEX would provide for the building of some one circuit. This would be used and experimented with for a month and then torn down ready for rebuilding into a new circuit in accordance with the next month's instructions.

Now the question is, how many will want to enroll in this set-building course. The more that enroll, the lower will be the cost of the kits. These should not, in any event, cost more than five dollars and perhaps not that much. A whole winter's enjoyment would be provided.

#### **When is a Verie?**

"That article on page 35 of the March issue has caused much argument and hard feeling between our club and RADEX," protests Donald Weber, Secretary of the Plainfields DX Club, 1377 Park Ave., Plainfield, N. J. The article to which Mr.

Weber refers is the one entitled "Yes, It is no Verie." It pertained to a letter from XEWZ reading about as follows: "We thank you for your report in which you tell us you heard our transmission." Certainly no club of standing would admit such a "verie" in any contest. Boiled down it is merely "Thank you for your letter." It is unfortunate when a station fails to verify definitely just as it is when a station fails to reply at all. A listener may be content with just logging stations or he may collect "Thank you" cards or he may collect verifications. If he is counting verifications, however, they should really and actually be verifications and not merely acknowledgments. Pursues Mr. Weber: "If a station takes the trouble to send a card or letter stating they thank you for the report and please write again and make no statement actually verifying the report or stating that it is *not* correct, why can't that be considered a verie?" Many stations reply to reports but unfortunately fail to state anywhere in their reply that the report is correct. In our opinion this is merely a "thank you" and not a verification. If our readers think we are wrong, we will be glad to publish their arguments.

#### **"It has Never Let us Down"**

A. L. George writes from aboard the steamship "Scottish Chief," enroute to Japan: "Reading the last chapter of 'The Beginner's Story of Radio,' as given in the February issue, I should say that it is a book which has been long-awaited. Your RADEX—an interesting and very informative magazine,—has proved invaluable just recently in enabling us to follow up the sequential chain of news-flashes right through the tense drama of the 'Macon' disaster. Because of the scope it covers, the magazine has been in constant demand aboard ship for reference and has never let us down." It is inter-

esting to know that "men who go down to the sea in ships" are "charting their course" in radio by the help of this magazine.

Here are some interesting figures from a recent compilation by the Electrical Division of the U. S. Department of Commerce. The first column gives the number of radio sets in use, the second the number of long-wave stations, the third the number of medium-wave stations and the last the number of short-wave stations, in each continent.

North America	26,592,613		849	33
South America	1,169,417		189	25
Europe	20,788,363	15	227	45
Europe-Asia	2,005,500	43	52	6
Asia	2,050,339		115	19
Oceania	800,163		98	6
Africa	176,079		17	7
<b>TOTAL</b>	<b>53,582,474</b>	<b>58</b>	<b>1537</b>	<b>136</b>

F. N. Maire, 2663 Terrace Drive, Honolulu, Hawaii, sends us a clipping from the Honolulu Advertiser to the effect that that paper has filed an application for a permit to erect a new short wave broadcasting station in the Island Territory. It is planned to have sufficient power to reach a radius of 7000 miles and to relay the programs of KGU. The V-type directional and reflecting antenna will be directed toward San Francisco and the reverse of the beam will point directly toward Australia and New Zealand. Development plans necessitate the building of a new master studio bigger than the two present ones of KGU combined.

Daylight Saving Time, our semi-annual bugaboo, comes into effect the last Sunday in April. We are correcting "What's on the Air Tonight" to show EDST but we find it necessary to discontinue "Where to Get the Day's News" temporarily as some of the stations listed will change to DST while others will not. This makes our news schedules wholly confusing. This feature will be resumed in a more convenient form

(Continued on page 38)

*Now in Book-Form*

## **The Beginner's Story of Radio**

by B. Francis Dashiell

*Tears the Mystery away from Radio*

Written in a surprisingly simple way and yet intriguingly interesting, this book explains just what goes on within the radio receiver when the dials are turned.

At last a real understanding of the modern marvel of Radio is possible for the ordinary listener. Don't fail to place this book in the hands of your son—it may decide his life's work.

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# The Frequency Allocation

IN THIS and succeeding issues, we are publishing in diagrammatic form the allocation of the frequencies from 10.05 to 500,000 kilocycles. These diagrams present, in the clearest form we have yet seen a picture of the subdivisions of the whole radio spectrum. For them we are indebted to "Radio Retailing" that excellent publication for dealers and servicemen. The whole series will require several issues of this magazine and we suggest that our readers save and mount each installment. The data will be most helpful in tuning, particularly in the short-wave field.

## Symbols

- AG Agriculture
- AM Amateur
- AV Aviation
- BC Broadcast, clear channel
- BE Broadcast, experimental
- BL Broadcast, local channel
- BP Broadcast, pickup
- BR Broadcast, regional channel
- CH Coastal, harbor
- CTG Coastal, telegraph
- CTL Coastal, telephone
- EM Emergency, (special)
- EX Experimental, (general)
- FI Fire (marine)
- GE Geophysical
- Gov. Government
- PM Police, municipal
- P-P Point to point (fixed)
- PR Press, (mobile)
- PS Police, state
- RE Relay, broadcast experimental
- SH Ship, harbor
- STG Ship, telegraph
- STL Ship, telephone
- TV Television
- Blank Unassigned

10.05 - 56.20		56.80 - 158		159 - 355	
CLASS OF SERVICE	FREQUENCY IN KILOCYCLES	CLASS OF SERVICE	FREQUENCY IN KILOCYCLES	CLASS OF SERVICE	FREQUENCY IN KILOCYCLES
	3000 Meters		4000 Meters		5000 Meters
Point to Point	10.05 to 17.60	P-P	56.80 to 57.40	Gov	159 to 160
	17.60 to 18.00	Gov	57.40 to 58.00	STG	161 to 171
	18.00 to 18.40	P-P	58.00 to 63.60	P-P	172 to 173
Gov	18.40 to 18.80	Gov	63.60 to 64.40	P-P	174 to 175
P-P	18.80 to 19.60	P-P	64.40 to 65.20	P-P	176 to 180
Gov	19.60 to 20.00	Gov	65.20 to 66.00	P-P	181 to 185
Point to Point	20.00 to 22.75	P-P	66.00 to 74.00	P-P	186 to 190
Gov	22.75 to 23.25	Gov	74.00 to 75.60	Gov	191 to 192
P-P	23.25 to 23.75	P-P	75.60 to 82.00	P-P	193 to 194
Gov	23.75 to 24.00	Gov	82.00 to 83.60	P-P	195 to 199
Point to Point	24.00 to 25.90	P-P	83.60 to 93.20	Gov	200 to 204
	25.90 to 26.20	Gov	93.20 to 94.00	Gov	205 to 206
Gov	26.20 to 26.50	P-P	94.00 to 96.80	Gov	207 to 208
Point to Point	26.50 to 28.30	P-P	96.80 to 100	Gov	209 to 210
	28.30 to 28.60	Gov	100 to 101	Gov	211 to 212
Gov	28.60 to 28.90	P-P	101 to 102	Gov	213 to 214
P-P	28.90 to 30.20	P-P	102 to 103	Gov	215 to 216
Gov	30.20 to 31.00	Gov	103 to 104	Gov	217 to 218
P-P	31.00 to 32.20	Gov	104 to 105	Gov	219 to 220
Gov	32.20 to 32.60	Gov	105 to 106	Gov	221 to 222
P-P	32.60 to 33.00	Gov	106 to 107	Gov	223 to 224
Gov	33.00 to 33.40	Gov	107 to 108	Gov	225 to 226
Gov	33.40 to 34.20	Gov	108 to 109	Gov	227 to 228
Point to Point	34.20 to 37.80	Gov	109 to 112	Gov	229 to 230
	37.80 to 38.20	Gov	112 to 113	Gov	231 to 232
Gov	38.20 to 38.60	Gov	113 to 114	Gov	233 to 234
Point to Point	38.60 to 42.20	Gov	114 to 115	Gov	235 to 236
	42.20 to 42.70	Gov	115 to 116	Gov	237 to 238
Gov	42.70 to 43.20	Gov	116 to 119	Gov	239 to 240
Point to Point	43.20 to 45.70	Gov	119 to 120	Gov	241 to 242
	45.70 to 46.20	Gov	120 to 121	Gov	243 to 244
Gov	46.20 to 46.70	Gov	121 to 122	Gov	245 to 246
Point to Point	46.70 to 53.20	Gov	122 to 123	Gov	247 to 248
	53.20 to 53.80	Gov	123 to 128	Gov	249 to 250
Gov	53.80 to 54.40	Gov	128 to 129	Gov	251 to 252
P-P	54.40 to 55.60	Gov	129 to 131	Gov	253 to 254
Gov	55.60 to 56.20	Gov	131 to 132	Gov	255 to 256
		Gov	132 to 133	Gov	257 to 258
		Gov	133 to 134	Gov	259 to 260
		Gov	134 to 141	Gov	261 to 262
		Gov	141 to 142	Gov	263 to 264
		Gov	142 to 143	Gov	265 to 266
		Gov	143 to 144	Gov	267 to 268
		Gov	144 to 145	Gov	269 to 270
		Gov	145 to 150	Gov	271 to 272
		Gov	150 to 151	Gov	273 to 274
		Gov	151 to 154	Gov	275 to 276
		Gov	154 to 155	Gov	277 to 278
		Gov	155 to 156	Gov	279 to 280
		Gov	156 to 158	Gov	281 to 282
		Gov		Gov	283 to 284
		Gov		Gov	285 to 286
		Gov		Gov	287 to 288
		Gov		Gov	289 to 290
		Gov		Gov	291 to 292
		Gov		Gov	293 to 294
		Gov		Gov	295 to 296
		Gov		Gov	297 to 298
		Gov		Gov	299 to 300
		Gov		Gov	301 to 302
		Gov		Gov	303 to 304
		Gov		Gov	305 to 306
		Gov		Gov	307 to 308
		Gov		Gov	309 to 310
		Gov		Gov	311 to 312
		Gov		Gov	313 to 314
		Gov		Gov	315 to 316
		Gov		Gov	317 to 318
		Gov		Gov	319 to 320
		Gov		Gov	321 to 322
		Gov		Gov	323 to 324
		Gov		Gov	325 to 326
		Gov		Gov	327 to 328
		Gov		Gov	329 to 330
		Gov		Gov	331 to 332
		Gov		Gov	333 to 334
		Gov		Gov	335 to 336
		Gov		Gov	337 to 338
		Gov		Gov	339 to 340
		Gov		Gov	341 to 342
		Gov		Gov	343 to 344
		Gov		Gov	345 to 346
		Gov		Gov	347 to 348
		Gov		Gov	349 to 350
		Gov		Gov	351 to 352
		Gov		Gov	353 to 354
		Gov		Gov	355 to 356

## With the Editor

(Continued from page 37)

with the return to Standard times the first of October.

Readers complain of the difficulty of receiving the Canadian stations on their frequency check programs. The CDXR write us that the Canadian Government fails to give any



information as to the time of these tests and that they change the hours frequently. Our readers are reminded of the fact that these frequency tests are not staged for their benefit but for the convenience of the government engineers in making the tests.

We are all mixed up on the Des Moines Register-Tribune stations in Iowa. Last month the news came that the Waterloo station, WMT, was to be moved to Cedar Rapids and that KRNT of Cedar Rapids was to be moved to Des Moines. Now comes the information that KSO at Des Moines officially became KRNT on March 17th and that KWCR (or KRNT) at Cedar Rapids has adopted the call KSO. It is not clear whether the Des Moines station will use 1430 originally assigned to KWCR or 1320, the old KSO frequency. We will try to have this mix-up straightened out in the next issue.

Comes a letter from the Canadian Marconi Co. "Our Glace Bay station

is listed in RADEX as a broadcasting station. This station ceased to be a broadcasting station as of March 31, 1933, and thereafter the frequency of 680 kcs. could only be used for the transmission of official broadcasts of the Department of Marine, Ottawa. We would be obliged if you would kindly withdraw the notice in question." While VAS is included in our list of broadcasting stations, we think our readers understand that it is not a broadcasting station in the true sense of the word. It does however broadcast weather reports on the broadcast band just as NAA broadcasts time signals. It is picked up by our readers and they want to identify it. With all due courtesy to the Canadian Marconi Co., we believe that as long as VAS uses the b.c.b. it should be listed in this magazine.

The Editor asks that his readers return the blank which will be found on page 79. It will help him greatly in providing the things the readers like best.

## NETWORK PROGRAMS on Short Waves

The broadcast stations over which programs originate are shown in the first column. The short-wave transmitters are shown in second column, frequencies in the third, wavelengths in the fourth and power in the fifth. Time is EDST.

WJZ	W3XAL	17,780	16.873	12-35 KW	Daily except Sunday, 9-10 a.m. Also Tues., Thurs. and Fri., 3-4 p.m.
WJZ	W3XL	6,100	49.18	15-35 KW	Mon., Wed., Sat., 5-6 p.m. Also Sat. midnight to 1 a.m.
WGY	W2XAF	9,530	31.48	40 KW	Daily 6:30-11 p.m. Also outstanding events from time to time.
WGY	W2XAD	15,330	19.56	20 KW	Daily 2:30-3:30 p.m. Also outstanding events from time to time.
KDKA	W8XX	6,140	48.86	40 KW	Daily 4:30 p.m. to 1 a.m.
		11,870	25.27	40 KW	Daily 4:30 p.m. to 11:00 p.m.
		15,210	19.72	40 KW	Daily 7:00 a.m. to 4:15 p.m.
		21,540	13.93	40 KW	Daily 7:00 a.m. to 2:00 p.m.
WENR	W9XF	6,100	49.18	10 KW	Mon.-Fri. incl. 1-2 a.m. and 9-10 p.m.
WLW	W8XAL	6,060	49.5	10 KW	Sat. 1-2 a.m., Sun. 1-2:30 a.m. and 9-10 p.m.
					Daily exc. Sat. and Sun., 6:30 a.m. to 8 p.m. and 11 p.m. to 3 a.m.; Sat. 6:30 a.m. to 8 p.m. and 11 p.m. to 3 a.m.; Sun. 8 a.m. to 8 p.m. and 11 p.m. to 2 a.m.
WBZ	W1XAZ	9,570	31.33	10 KW	Daily 7 a.m. to 1 a.m.; Sun. 8 a.m. to 1 a.m.
WCFL	W9XAA	6,080	49.34	.5 KW	Daily exc. Sun., 9:30 a.m. to 6 p.m.; Sun. 11:30 a.m. to 9 p.m.
		11,830	25.35	.5 KW	Used only occasionally.
		17,780	16.57	.5 KW	Used only occasionally.
WIOD	W4XB	6,040	49.67	2.5 KW	Temporarily discontinued.
CFCF	VE9DR	6,005	49.96	.05 KW	Dismantled temporarily.
CRCT	VE9GW	24,380			Experimental.
		6,095	49.2	.5 KW	Mon., Tues., Wed., 3 p.m. to midnight; Thur., Fri., Sat., 7 a.m. to midnight; Sun. 1-9 p.m.

## The DX Calendar

**D**URING the winter radio season, this magazine publishes every month a list of the special DX programs arranged by the various broadcasting stations throughout the world. These programs are quite generally discontinued in early spring and resumed in the fall. The next hour-by-hour DX calendar will appear in our October issue.

For the benefit of our readers, however, we call attention to the fact that the U. S. radio authorities check the frequencies of several hundred low-powered stations the first seven mornings of each month. At these times, other stations on the same frequencies are silenced. The hours of these tests appeared in the DX calendar in the March issue of this magazine. The times of the Canadian tests were also given in the same calendar. These are presumed to take place on the 19th and 20th of each month although the Canadian government does not adhere to a fixed schedule. In the April issue we published a resume of the monthly periods of the regular DX programs. While many of these will be dropped during the summer months, some will undoubtedly appear as scheduled. Our readers are therefore referred to the March DX calendar on page 49 of the March issue and the April DX calendar on page 35 of the April number.

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## Short Wave News

*(Continued from page 11)*

izales, Colombia is one of the most interesting of all the shortwavers. They are on every Saturday night until after 11 pm, CST.

"I have been following with in-

terest the discussions about when to log or when not to log a station. Some seem to believe that a station should be removed from one's log when it leaves the air. Then one should delete such stations as DENNE, the stratosphere balloon, HRB, etc. This does not seem right to me."

"I received a verification in less than a month from CO9GC in Santiago de Cuba. On their QSL they give their frequency as 6150 kcs. or wavelength of 48.79 meters. They retransmit the programs of CMKB, Santiago." Ansel E. Gridley, Box 1294, Sarasota, Fla.

### Portugal's Schedule

"A letter from CT1GO gives the following schedule for their station: 12396 kcs., Sunday, 10-11:30 am and Tuesday, Thursday and Friday from 1 to 2:15 pm. On 6198 kcs., Sunday, 7:20 to 8:30 pm and Tuesday, Wednesday, Thursday and Friday, 7:20 to 8:30 pm. Time is EST. CT1GO is a 350 watts station and the address is Radio Club Portugues, Parede, Portugal." P. J. Walsh, 12 Flower Hill, St. John's, Newfoundland.

"I have been hearing HAT, Budapest, on their Sunday evening schedule from 8 to 9:15 pm, EST. I also hear PCJ, Hilversum, Netherlands, on week days as well as Sundays." C. B. Denman, G.P.O., Hamilton, Bermuda.

"I have a verification which I believe is unique," writes George Tichenor, 19 S. Pierson Road, Maplewood, N. J. "It verifies reception of W2XBX and W10XAA. These two stations are in a Fairchild and a Ford airplane respectively and are owned by the Bell Telephone Laboratories. The transmitters work on 4797.5 kcs."

Charles Miller, Covington, Ky.: "HC2JSB, at Guayaquil, Ecuador, now works nightly from 8:15 to

11:15 pm, EST, on 38.96 meters, and HJ1ABD, Cartagena, Colombia, has moved down to 41.21 meters to avoid the congestion in the 49 meter band."

Wm. McDaniel: "It still is hard to tune in DJC and GSA on account of the crowded condition in the 49-meter band."

Andrew Shassetz: "Something must be done about the 'free for all' on the 31 and 49 meter bands."

Irving C. Johnson: "The interference in the shortwave bands reminds one of the pioneer DX days way back in 1922."

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## New Idea in Set Building

*(Continued from page 5)*

the automatic volume control circuit; a short-circuiting switch is provided so that the AVC can be cut out at will on the short waves. The fifth tube is the power output—a type 2A5 or 42, and feeds directly into the output transformer or loud speaker. The sixth tube is a type 56 or 76 beat oscillator. And the seventh or last tube is a type 80 rectifier which is sufficient to supply all the current and voltage necessary to operate the receiver.

### A Complete Kit

A complete kit of all parts necessary to build this brand new circuit has been assembled by the Tobe Deutschmann Corporation, Canton, Mass. All parts are carefully selected and tested for uniformity. A book describing the set and its construction, written by Glenn H. Browning, is also furnished. A complete set of prints, full size, showing every wire and position, may be had.

The base and panel are carefully drilled so the assembly of all the parts will be easy. The foundation chassis is cadmium plated and the panel is finished in black damaskene.

The metal cabinet is also of the same finish. All lugs, terminal strips, etc., of proper design, are supplied in the kit. The power transformer that is furnished has both 2.5 and 6.3-volt secondary windings so that either 2.5 or 6.3-volt tubes can be used. This power transformer, the tube sockets, filter condensers and other units, together with the intermediate-frequency transformers and resistors are set into position and easily wired. However, in the center of this assembled chassis there will still remain a vacant space toward which the free ends of seven connecting wires or leads point.

### The Tuner And Dial

The Tobe 35 tuner is mounted in this open space. Soft rubber washers are inserted between the main chassis of the set and the base of the tuner. This cushioning tends to reduce mechanical feed-back caused by actual vibration of the condenser plates due to sound waves from the loud speaker. Because the tuner has been carefully tracked and aligned at the factory it should be handled gently and should neither be opened nor adjusted under any circumstances.

When the tuner and all other parts have been assembled on the chassis the receiver is ready for the assembly of the front panel and dial. The coil-switch shaft and tuning-condenser shaft of the Tobe tuner extend through holes in the panel but do not touch. The two volume controls—one a 10,000 ohm resistance on the 58 i.f. tube, and the other a 500,000 ohm potentiometer in the diode circuit of the 2A6 tube (the main control)—are mounted on the panel along with the AVC cut-out switch, the tone control and the power switch.

A large two-color translucent dial is furnished with each kit. It indicates frequencies in megacycles, gives the locations where foreign and

domestic short-wave stations can be found, shows the police and amateur bands, translates wave lengths into meters, and separates the broadcast band and the three individual short-wave bands. The tracking and tuning adjustments made at the factory insure the dial and tuner tuning to the fraction of a division on the scales of the dial. A dial light illuminates the face from a bracket mounted in the rear of the dial.

### Uses a Loud Speaker

For the particular requirements of this receiver, a special matched speaker is offered separately. As there are many older sets in use today, many of which are mounted in fine cabinets together with excellent speakers, the Browning 35 receiver may be used to replace such sets and bring the outfit up to date. In many instances the new receiver can be placed in the old cabinet provided the old speaker has about 1800 ohms in its field resistance.

The beat-frequency oscillator which is incorporated as a part of the receiver provides an excellent tuner. When this beat oscillator is turned on signals come in with an identifying whistle. This faint carrier-wave squeal shows that a weak station signal or wave is present and careful manipulation of the adjustments will soon make the station audible. Without it the signal may be too weak to be noticed and will be passed by, even though the tuning is slow and painstaking. The microvernier knob on the short-wave dial turns the condenser shaft very slowly and also aids in tuning weak and sharp stations.

## Thrill of the Month Club

*(Continued from page 20)*

heterodynes today so badly that it cannot be listened to on either the good old Radiola 28 with a loop or the R-78 RCA-Victor. Terribly loud

whistle on this channel only."

"I am using a Sparton 8-tube model 580 all-wave and it is giving splendid satisfaction," submits J. Russell Graham, 1005 Allard Ave., Verdun, Que. "I bought this set December 11th last and my log at present stands at 476 on the bcb. and 77 on the sw. Have had no success so far with the TP's GSL on 49.10 comes in here like a local, just as well as GSA. I use a flat top aerial, one wire about 85 feet long."

Ernest Lockyer Wills, 138 Lelievre Street, Montreal, Quebec, appeals for help and advice in tuning in Japan, New Zealand and Australia on which he has set his heart. "Who," he inquires, "is the French station on 10250 kcs. It does not come in clear but I am sure it is French as I speak a little myself. She comes on at noon and is still on when I go to work at 3:30 p.m."

"Revising my log to comply with the 'RADEX Standard' suggested by Howard L. Spies, in the March issue, I find I have 467 stations," reports Leo Wickens, R. R. 1, Aldershot, Ont. "I have 20 in Canada, 13 in Mexico, 3 in Cuba, 1 in Puerto Rico and 430 in the US. My best are KERN, CJLS, WKAQ and CMC. I still lack New Hampshire, Vermont, Nevada and Wyoming."

"Please publish the fact that station WLTH, Brooklyn, does not verify," warns Harold J. Clark, President of Plainfield DX Club, 431 Watchung Ave., North Plainfield, N. J. "I have sent three reports in which postage was included. A follow-up was sent in each case. No reply as yet."

Ashley Wright, Box 274, Glen Ellyn, Ill., sends a list of the stations he had received on his four-tube Federal midget set. They reach from Portland, Oregon, on the west to Wilmington, Delaware on the east. Certainly a good record for a small set.

"I have a table model Philco 95, 9-tubes, which I bought in January,

1930," advises Benj. A. Mansfield, 28 Bates Ave., Danvers, Mass. "I am able to get KFI most any night after 9 p.m. EST. It has come in like a house afire in heavy blizzards."

"I have boosted my log from 244 to 325 with 72 veries," supplies V. R. Grassie, P. O. Box 213, Duncan, V. I., B. C. "My recent best are WKAQ, 2BL, 1YA, 3YA, 5CK, 4QG, 4BH, XEK, XEWZ and LR5. CMX conducts a swell DX program every Sunday morning, 2-4 EST. It is especially dedicated to DXers of Central and SA. Am still using my GE-X and would like to hear from DXers anywhere."

"Last November I purchased a Grunow 752 all-wave. Since then I have logged 169 b.c. and 47 s. w. which I do not think is bad for a beginner," admits John E. Webb, 15½ Veall Street, New Bedford, Mass. My b. c. log covers every frequency from 550 to 1500 and 37 states. I would like to correspond with other Grunow 752 owners."

From Bernard J. Murray, Jr., 1045 West Ninth St., Erie, Pa.: "My log of active stations now reaches 577. Now have 14 states completely logged and need only one station in each of 18 other states. Have heard 84 new stations this season including LR4, CX16, W6XAI, TGW, KVL, CKOV, KGU, XEE, CFCT, XETH and others."

"On my Sparton 931, I have received 605 stations," recapitulates Clarence Wakefield, Wlarton, Ont. "These are all separate transmitters. I do not count frequency changes, calls or moves to other cities. My best this season are 2BL, TGW, CKWX, KFPM, XEAA, XEFO, XEFB, CMBX, CMOA, CMOX, CMCU and CMCO."

"My log now stands at 701 with my best 1YA at R6, also 2YA, 2BL, CX26, KGMB, KGU, LR5, YV1RC, TGW and WKAQ. I have 51 Canadians, 26 Mexicans, 20 Cubans, 2 Puerto Ricans, two Zedders and one each in Argentina, Venezuela, Uruguay, Guatemala and both Hawaii-

ans." This excellent summary comes from Clarence Kerkel, Jr., 622½ North 7th St., Quincy, Ill.

"My record is now 440 logged with 129 verified," submits Robert N. Hoffman, 306 W. School Lane, Philadelphia, Pa. "As I write it is still broad daylight (5 p. m.) and I just heard the announcement from KOA right through WRUF, WHDH and WEEU."

From James B. Crusan, 424 Smithfield St., Mount Pleasant, Pa.: "My all-time total now stands at 513, all on my 1932 7-tube Airline. My monthly log (January) was for 209 stations."

"Could you tell me when to pick up KNRA, the Seth Parker, and the frequency most commonly used?" asks Bob Calder, Box 647, Kenora, Ontario. Bob would like to hear from other 17 year-old DXers. Referred to Dick Fales, Roslyn Estates, L. I., N. Y., who wants a correspondent in Canada.

"I started this season with about 200 stations," says Leo Herz, 1317 S. Grove Ave., Berwyn, Ill., "and this has increased to date to 330. Just started to write for verifications a month ago. I got all these on a little 4-tube Halson. Would like to correspond with other DXers and promise faithfully to answer every letter."

From "A Radexer," 1380 Snowden Ave., Memphis, Tenn.: "In seven nights, with my new RCA-Victor 'Magic Brain', I logged 203 stations on the b. c. b. including 43 on the west Coast, KGU, KFQD, HIX, and VOGY. The set has incredible power. On the s. w. I've got GBT, XGN, DJC, and several in France and Italy that I have not fully identified."

"I think DXing the greatest hobby in the world," exclaims Mrs. A. C. Johnson, Henry, S. Dak. "At present I have only 154 stations logged and 68 verified. Seems I

can't get any stations outside of the US, Canada and Mexico. I use a Gloritone, 5-tube set. Does anyone else have one like it?"

From Lewis Larson, 412 Harrison St., Lindsborg, Kansas: "My radio is a 7-tube U. S. Apex and is very selective considering that it is more than three years old. I have logged 200 stations on the b. c. b. I am able to receive the new high-fidelity stations above 1500. My radio tunes to about 1800 kcs."

"I am 15 years old and have been DXing since January, 1934," indicates Maurice E. Dolloff, 61 Boston Ave., West Medford, Mass. "I have a grand total of 330 stations including 120 with 100 watts or less on the b. c. b. with a 7-tube Apex. The monthly frequency checks have boosted my total."

From Charles Leboeuf, Box 222, North Grosvenordale, Conn.: "I have reports out to Hamburg on 904, Frankfurt-am-Main on 1195, CP4, COX, COA, XEFO, WKEU, WNEL, VOGY, and many others. These bring my log up to 647 with 82 calls deleted, 355 verified with 47 2000-mile verifications."

"I have an 8-tube Majestic 90-B which is five years old," explains Harold E. Schieffer, 451 Center St., Healdsburg, Calif. "I have received 241 stations including 18 J's, 3 in China, 2 in Hawaii, 2 in Alaska, 22 in Canada, 15 in Mexico, one in Argentina and the rest in the U. S."

"My log now stands at 342 after four months of DX. Latest catches include LR5, WAGM, WCAX, KNOW, KFPL, KFJZ and last but not least, KFPM. I use a four-tube Philco." Francis Schmidt, 707 Edmond St., Pittsburgh, Pa.

From Albert T. Cartmell, 1311 College, Kansas City, Mo.: "I have a 9-tube Silver-Marshall. In six weeks I have logged 220 covering 40 states. I have 5 from New York City, 13 from Chicago, 5 in Florida,

24 in Texas."

From Charles L. Clarke, 214 White St., Waverly, Mass.: "Started DX November, 1933, and up to the present have logged 363 including 92 100-watt, seven 50-watt and two 150-watt. So far this season have logged 39 new stations, mostly 100-watters."

From Julian Schaefer, 2036 West 83rd St., Cleveland, Ohio.: "This month has been the best I've ever had. My log is 550 active stations. I use an old 1928 Majestic with seven tubes."

From Al Vasko, RFD 2, Swanton, Ohio: "I have never used a set with more than three tubes. I have 283 in four countries with 30 s. w. in ten countries, 64 police in 23 states, foreign amateurs 406 in 43 countries and all continents. My US amateurs totaled 3389."

From Richard Fales, Roslyn Estates, Long Island: "I think every active DXer who wants to get the most out of his radio should have a Perfect Phone Adapter. It certainly is a wonderful instrument. I would like to correspond with other DXers in Mexico or Canada."

From Edgar D. Petrie, 1013 Queen St., E., Toronto, Ont.: "I have increased my log to 612 stations. On the morning of December 2, I heard TGW, WPAC, KRGV, KGKO, WHIB, CKUA, and WMEX. Would like to hear from owners of the Sonora C34."

"I recently purchased a new Crosley 6AF super," says A. V. Deterly, 125 East Blvd., Baton Rouge, La. "I like my new set very much. I am something of an amateur fan and get a lot of fun out of listening to them."

"At 7 a.m. EST, I heard a station very faintly announce the letters KTRM on about 820 kcs. Can anyone tell me what station this could have been?," asks H. Walter Hobson, 118 Miles St., State College Pa.

# 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: ED Eastern Daylight; E Eastern; C Central; M Mountain

For Pacific Time subtract one hour from Mountain.

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.

Due to change to Daylight Saving Time on April 28, some of the stations listed will be unable to carry particular features.

## MONDAY

**ED-6:00 p.m., E-5:00, C-4:00, M-3:00**  
**C — Buck Rogers; 25th Century**  
 CKLW WAAB WABC WBNS WCAO  
 WCAU WFBL WHEC WHK WJAS  
 WJSV WKBW WKRC WOKO

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

**ED-7:00 p.m., E-6:00, C-5:00, M-4:00**  
**C — Myrt and Marge**  
 WABC WADC WBT WCAO WCAU  
 WDAE WDBO WEAN WFBL WGR  
 WJAS WJSV WKRC WNAC WOKO  
 WQAM WSPD WTOC WVVVA

**B — Amos 'n' Andy**  
 CRCT KDKA WBAL WBZ WBZA  
 WCKY WENR WFLA WGAR WHAM  
 WIOD WJR WJZ WLW WMAL  
 WPTF WRVA

**ED-7:15 p.m., E-6:15, C-5:15, M-4:15**  
**B — Tony and Gus**  
 KDKA KOIL KSO KWCR KWK  
 WBAL WBZ WBZA WCKY WENR  
 WHAM WJR WJZ WMAL WSYR  
**R — Stories of Black Chamber**  
 KYW WBNB WCAE WCSH WEAF  
 WEEI WGY WJAR WMAQ WRC  
 WSAI WTAG WTAM WTIC

**ED-7:30 p.m., E-6:30, C-5:30, M-4:30**  
**C — The O'Neills**  
 WABC WCAO WCAU WDRC WFBL  
 WGR WHEC WHP WJAS WJSV  
 WMAS WOKO WORC WVVVA  
**C — Buck Rogers; 25th Century**  
 KMBC KMOX KRLLD KTRH K TSA  
 WBBM WBT WCCO WDSU WFBM  
 WGST WHAS WMBG

**B — Red Davis; Drama**  
 KDKA KOIL KPRC KSO KSTP  
 KTBS KWCR KWK WAVE WBAL  
 WBZ WBZA WECB WENR WFLA  
 WHAM WIBA WIOD WIS WJAX  
 WJDX WJZ WKY WMAL WMC  
 WPTF WENR WRVA WSB WSM  
 WSMB WSYR WTAR WWNC

**R — Easy Aces**  
 KSO KYW WCAE WCSH WEAF  
 WGY WMAQ WOW WRC WSAI  
 WTAG WTAM WWJ

**ED-7:45 p.m., E-6:45, C-5:45, M-4:45**  
**C — Boake Carter for Philco**  
 CKLW KMBC KMOX WABC WBBM  
 WBT WCAO WCAU WCCO WGR  
 WEAS WHK WJAS WJSV WNAC

**B — Dangerous Paradise; Drama**  
 KDKA KOIL KSO KTBS KVOO  
 KWCR KWK WBAL WBZ WBZA  
 WENR WFAA WGAR WHAM WJR  
 WJZ WKY WMAL WQAI WREN  
 WSB WSM WSMB WSYR

**R — Uncle Ezra**  
 KYW WBNB WCAE WCSH WDAF  
 WEAF WEEI WGY WJAR WMAQ  
 WOW WRC WSAI WTAG WTAM

**ED-8:00 p.m., E-7:00, C-6:00, M-5:00**  
**R — Richard Himber and Orchestra**  
 KPRC KSD KTBS KVOO WBAP  
 WBNB WCAE WCSH WDAF WEAF  
 WEEI WFAA WGY WHO WJAR  
 WKY WMAQ WQAI WOC WOW  
 WRC WSAI WTAG WTAM WTIC

**C — Fray and Braggotti**  
 CKLW KDB KERN KFPY KFRC  
 KGB KHJ KLZ KMBC KMJ KMOX  
 KSL KWG WABC WADC WBBM  
 WCAO WCAU WDRC WEAN WFBL  
 WFBM WGR WHAS WHK WJAS  
 WJSV WKRC WNAC WOKO WSPD

**ED-8:15 p.m., E-7:15, C-6:15, M-5:15**  
**C — Edwin C. Hill**  
 CKLW KMBC KMOX WABC WADC  
 WBBM WCAO WCAU WCCO WDRC  
 WEAN WFBL WFBM WGR WHAS  
 WHK WJAS WJSV WKRC WNAC  
 WOKO WSPD

**ED-8:30 p.m., E-7:30, C-6:30, M-5:30**  
**C — Kate Smith's Star Revue**  
 CKLW KFAB KFH KGKO KLRA  
 KMBC KMOX KOMA KRLLD KTRH  
 K TSA KUL WABC WADC WALA  
 WBBM WBNS WBRW WBT WCAO  
 WCAU WCCO WCOA WDAE WDBJ  
 WDRC WDSU WEAN WFBL WFBM  
 WFEA WGR WGST WHAS WHEC  
 WHK WIBW WIBX WICC WISN  
 WJAS WJSV WKRC WLAC WLBS

WMAS WMBG WMBR WMT WNAC  
 WNOX WNNB WOKO WORC WOWO  
 WQAM WREC WSBT WSPA WSPD

**R — Voice of Firestone**  
 CFCE CRCT KFYP KPRC KSD  
 KSTP KTBS KVOO KYW WAVE  
 WBNB WCAE WCSH WDAF WDAY  
 WEAF WECB WEEI WFBR WFLA  
 WGY WHO WIBA WIOD WIS WJAR  
 WJAX WJDX WKBF WKY WMAQ  
 WMC WQAI WOW WPTF WRC  
 WRVA WSB WSM WSMB WSOC  
 WTAG WTAM WTAR WTIC WTMJ  
 WWJ WWNC

**ED-9:00 p.m., E-8:00, C-7:00, M-6:00**  
**C — Chesterfield Program**  
 CKLW KDB KERN KFBC KFH  
 KFPY KFRC KGB KGMB KHJ  
 KLRA KLZ KMBC KMJ KMOX  
 KOH KOIN KOL KOMA KRLLD  
 KSCJ KSL KTRH K TSA KUL  
 KVI KWG WABC WACO WADC  
 WALA WBBM WBIG WBNS WBRW  
 WBT WCAO WCAU WCCO WDAE  
 WDBJ WDBO WDNC WDDO WDRC  
 WDSU WEAN WFBL WFBM WFEA  
 WGST WHAS WHEC WHK WHP  
 WIBW WICC WISN WJAS WJSV  
 WKBH WKBW WKRC WLAC WLWB  
 WLBS WMAS WMBD WMBG  
 WMBR WMT WNAC WNAX WOKO  
 WORC WOWO WPG WQAM WREC  
 WSPA WJSV WSPD WTOC

**R — A & P Gypsies**  
 KSD WBNB WCAE WCSH WDAF  
 WEAF WEEI WGY WHO WJAR  
 WLIT WMAQ WOC WOW WTAG  
 WTAM WTIC WWJ

**B — Sinclair Greater Minstrels**  
 KDKA KFI KFSD KFYP KOA KOIL  
 KPO KPRC KSO KSTP K TAR KTBS  
 KTBS KVOO KWK WBAL WBZ  
 WBZA WDAY WECB WFAA WFLA  
 WGAR WHAM WIBA WIOD WIS  
 WJAX WJDX WJR WJZ WKY WLS  
 WLW WMC WQAI WPTF WREN  
 WRVA WSB WSM WSMB WSOC  
 WTAR WTMJ WWNC

**ED-9:30 p.m., E-8:30, C-7:30, M-6:30**  
**C — The Big Show**  
 CKAC CKLW KFAB KLZ KMBC  
 KMOX KSL WABC WADC WBBM  
 WBNS WBT WCAO WCAU WCCO

# MONDAY (Continued)

WDR WDSU WEAN WFBL WFBM  
WHAS WHK WCC WJAS WJSV  
WKBW WKRC WNAC WOKO  
WOWO WREC WSPD

**R — Otto Harbach Musical Show**  
KDYL KFI KFYP KGO KGW KHQ  
KOA KOMO KPRC KSD KST-  
KTBS KVOO WBNB WCAE WCSH  
WDAF WDAY WFAF WEBC WEEI  
WFAA WFBW WFLA WGY WHO  
WIBA WIOD WIS WJAR WJAX  
WJDX WKBF WKY WLV WMAQ  
WMC WOAI WOC WOW WPTF WRC  
WRVA WSAI WSB WSM WSBM  
WTAG WTAM WTMJ WJW WNNC

**B — Princess Pat Players**  
KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WCKY WENR  
WGAR WHAM WJR WJZ WMAL  
WREN WSYR

**ED-10:00 p.m., E-9:00, C-8:00, M-7:00**  
**C — Wayne King and Orchestra**  
CKLW KDB KERN KFAB KFBK  
KFPY KFRC KGB KHJ KLZ KMBC  
KMJ KMOX KOIN KOL KRLD  
KSL KVI KWG WAAB WABC WADC  
WBMM WBNS WCAO WCAU WCCO  
WDR WDSU WEAN WFBL WFBM  
WHAS WHK WJBW WJAS WJSV  
WKBW WKRC WOKO WSPD

**R — Contented Program**  
CFCH CRCT KDYL KFI KFYP  
KGO KGW KHQ KOA KOMO KPRC  
KSD KSTP WBNB WCAE WCSH  
WDAF WFAF WEBC WEEI WFAA  
WFBW WGY WHO WJAR WKY  
WLV WLV WMAQ WMC WOAI  
WOC WOW WRC WSB WSM WTAG  
WTAM WTIC WTMJ WJW

**B — Jackie Heller, Tenor**  
KDKA KOIL KSO KWCR WBAL  
WBZ WBZA WCKY WENR WGAR  
WHAM WJR WJZ WMAL WREN  
WSYR

**ED-10:30 p.m., E-9:30, C-8:30, M-7:30**  
**C — Lilac Time; Night Singer**  
CKLW KDB KERN KFBK KFPY  
KFRC KGB KHJ KLZ KMJ KMOX  
KOIN KOL KRLD KSL KVI WABC  
WBMM WCAO WFBJ WFBM WGR  
WHAS WHK WJAS WJSV WKRC

**ED-11:00 p.m., E-10:00, C-9:00, M-8:00**  
**C — Myrt and Marge**  
KDB KERN KFAB KFBK KFPY  
KFRC KGB KHJ KLRA KLZ KMBC  
KMJ KMOX KOIN KOL KOMA  
KRLD KSL KTRH KVI KWG WALA  
WBMM WBRC WCAO WDSU WFBM  
WGST WHAS WLAC WREC WSPA

**B — Amos 'n' Andy**  
KOIL KPRC KSTP KTHS KWK  
WBAP WCKY WDAF WENR WFAA  
WJR WKY WMC WOAI WREN  
WSB WSM WTMJ

**ED-11:15 p.m., E-10:15, C-9:15, M-8:15**  
**C — Glen Gray and Orchestra**  
KLRA WABC WALA WBRC WBT  
WCAO WDAE WDBJ WDBO WDNC  
WDOD WDR WDSU WEAN WFEA  
WJSV WLAC WLBZ WLS WMBG  
WMBR WNAC WNOX WORC WPG  
WQAM WREC WSPA WJSV WTOC

**C — Edwin C. Hill**  
KDB KERN KFBK KFPY KFRC  
KGB KHJ KLZ KMJ KOIN KOL  
KSL KVI KWG

**ED-11:30 p.m., E-10:30, C-9:30, M-8:30**  
**R — Voice of Firestone**  
KDYL KFI KFSD KGHL KGIR  
KGUJ KGW KHQ KOA KOMO KPO  
KTAR  
**C — Kate Smith's Star Revue**  
KDB KERN KFBK KFPY KFRC  
KGB KHJ KLZ KMJ KOIN KOL  
KSL KVI KWG

# TUESDAY

**ED-6:00 p.m., E-5:00, C-4:00, M-3:00**  
**C — Buck Rogers, See Monday**

**ED-6:45 p.m., E-5:45, C-4:45, M-3:45**  
**B — Lowell Thomas, See Monday**

**ED-7:00 p.m., E-6:00, C-5:00, M-4:00**  
**C — Myrt and Marge, See Monday**  
**B — Amos 'n' Andy, See Monday**

**ED-7:15 p.m., E-6:15, C-5:15, M-4:15**  
**B — Tony and Gus, See Monday**

**ED-7:30 p.m., E-6:30, C-5:30, M-4:30**  
**C — Buck Rogers, See Monday**

**R — Easy Aces, See Monday**

**ED-7:45 p.m., E-6:45, C-5:45, M-4:45**  
**C — Boake Carter, See Monday**

**ED-8:00 p.m., E-7:00, C-6:00, M-5:00**  
**C — Frank Munn; Gustav Haenschen**  
CKLW KMBC KMOX WABC WADC  
WBMM WCAO WCAU WDR WRC  
WFBL WFBM WGR WHAS WHK  
WJAS WJSV WKRC WNAC WOKO

**B — Leo Reisman and Orchestra**  
KFYR KPRC KSD KSTP KTBS  
KVOO WAVE WBAP WBNB WCAE  
WCSH WDAF WDAY WFAF WEBC  
WEEI WFBW WFI WFLA WGY  
WIBA WIOD WIS WJAR WJAX  
WJDX WKBF WKY WMAQ WMC  
WOC WOW WPTF WRC WSB WSM  
WSMB WSOCT WTAG WTAM WTAR  
WTIC WTMJ WJW WNNC

**B — Eno Crime Clues**  
KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WGAR WJR  
WJZ WLS WLW WMAL WREN  
WSYR

**ED-8:30 p.m., E-7:30, C-6:30, M-5:30**  
**C — Abe Lyman; Vivienne Segal**  
CFRB CKLW KMBC KMOX WABC  
WADC WBMM WCAO WCAU WCCO  
WDR WRC WEAN WFBL WFBM WGR  
WHAS WHK WJAS WJSV WKRC  
WNAC WOKO WOW WSPD

**R — Wayne King and Orchestra**  
KPRC KSD KSTP WBNB WCAE  
WCSH WDAF WFAF WEEI WFAA  
WFI WGY WHO WJAR WKBF WKY  
WMAQ WMC WOAI WOC WOW  
WRC WSAI WSB WSM WSBM  
WTAG WTAM WTIC WTMJ WJW

**B — Edgar Guest; Welcome Valley**  
KDKA KOIL KSO KWCR WBAL  
WBZ WBZA WCKY WFL WGAR  
WHAM WJR WJZ WLS WMAL  
WMT WREN WSYR

**ED-9:00 p.m., E-8:00, C-7:00, M-6:00**  
**C — Bing Crosby**  
CKLW KDB KERN KFBK KFPY  
KFRC KGB KHJ KLZ KMBC KMJ  
KMOX KOIN KOL KRLD KSL  
KTUL KVI KWG WABC WADC  
WBMM WBT WCAO WCAU WCCO  
WDR WDSU WEAN WFBL WFBM  
WGST WHAS WHK WJAS WJSV  
WKBW WKRC WNAC WOKO  
WOWO WREC WSPD

**R — Ben Bernie and Orchestra**  
KFYR KOA KPRC KSD KSTP  
KTBS WBAP WBNB WCAE WCSH  
WDAY WFAF WEEI WFBW WFI  
WGY WJAR WJDX WKY WMAQ  
WMC WOAI WOW WRC WSB WTAG  
WTAM WTIC WTMJ WJW

**B — Red Trails; Drama**  
KDKA KDYL KFI KWG KHQ KOA  
KOIL KPO KSO KFRC KWK WBAL  
WBZ WBZA WCKY WFI WHAM  
WJR WJZ WKBZ WLS WMAL  
WREN WSYR

**ED-9:30 p.m., E-8:30, C-7:30, M-6:30**  
**C — Phil Spitalny's Orchestra**  
CKLW KDB KERN KFAB KFBK  
KFPY KFRC KGB KHJ KMBC  
KMJ KMOX KOIN KOL KSL KVI  
KWG WABC WADC WBMM WCAO  
WCAU WCCO WDR WRC WEAN WFBM  
WHAS WHK WJAS WJSV WKBW  
WKRC WMAS WNAC WOKO WOWO  
WSPD

**R — Ed Wynn; Eddie Duchin**  
KDYL KFI KFSD KFYP KGHL  
KGIR KGO KGW KHQ KOA KOMO  
KPRC KSD KSTP KTAR KTBS  
KTHS KVOO WAVE WBAP WBNB  
WCAE WCSH WDAF WDAY WFAF  
WEBC WEEI WFBW WFI WFLA  
WGY WHO WIBA WIOD WIS WJAR  
WJAX WJDX WKBF WKY WMAQ  
WMC WOAI WOW WPTF WRC  
WRVA WSB WSM WSBM WSOCT  
WTAG WTAM WTIC WTMJ WJW  
WNNC

**ED-10:00 p.m., E-9:00, C-8:00, M-7:00**  
**C — Glen Gray; Walter O'Keefe**  
CKLW KFAB KFH KLRA KMBC  
KMOX KOMA KRLD KSCJ KTRH  
KTSB KTUL KWKH WABC WACO  
WADC WALA WBMM WBIG WBNS  
WBRC WBT WCAO WCAU WCCO  
WDAE WDBJ WDBO WDNC WDOD  
WDR WDSU WEAN WFBL WFBM  
WFEA WGST WHEC WHK WHP  
WIBW WICC WISN WJAS WJSV  
WKBW WKBW WKRC WLAC  
WLWB WLWZ WMAS WMBD  
WMBG WMBR WMT WNAC WNAX  
WOKO WORC WOWO WPG WQAM  
WREC WSPA WJSV WSPD WTOC

**R — Palmolive Beauty Box**  
CFCH CRCT KDYL KFI KFSD  
KFYR KGHL KGIR KGO KGW  
KHQ KOA KOMO KPRC KSD KSTP  
KTAR KTBS KVOO WAVE WBAP  
WBNB WCAE WCSH WDAF WDAY  
WFAF WEBC WEEI WFBW WFLA  
WGY WHO WIOD WIS WJAR WJAX  
WJDX WKBF WKY WLV WMAQ  
WMC WOAI WOC WOW WPTF  
WRC WRVA WSB WSM WSBM  
WSOCT WTAG WTAM WTMJ WJW  
WNNC

**ED-10:30 p.m., E-9:30, C-8:30, M-7:30**  
**C — Horace Heidt and Orchestra**  
CKLW KDB KERN KFAB KFBK  
KFPY KFRC KGB KHJ KLRA KLZ  
KMJ KMOX KOIN KOL KRLD  
KRNT KSL KTRH KTSB KTUL  
KVI KWG WABC WBMM WBNS  
WBRC WBT WCAO WCAU WCCO  
WDR WDSU WFBL WFBM WGR  
WGST WHAS WHK WJAS WJSV  
WKRC WLAC WMBG WMBR  
WNAC WNAX WOC WOKO WQAM  
WREC

**ED-10:45 p.m., E-9:45, C-8:45, M-7:45**  
**C — Voice of Crusaders**  
CKAC CKLW KFH KGB KGKO



## TUESDAY (Continued)

KHJ KLRA KLZ KMBC KOH KOL KOMA KRLD KTRH KTSa KVI KFOR WABC WADC WALA WBBM WBIG WBNS WBT WCAO WCCO WDBJ WDBO WDNC WDOE WDRC WEAN WFBL WFEA WGR WGST WHAS WHEC WHK WHP WIBX WICC WKBN WKRC WLAC WLWB WMAS WMBG WMBR WNOX WOC WOKO WORC WPG WQAM WREB WSBT WSJS WSMK WSPD WTOC

**ED-11:00 p.m., E-10:00, C-9:00, M-8:00**  
**C — Myrt and Marge, See Monday**  
**B — Amos 'n' Andy, See Monday**

**ED-11:15 p.m., E-10:15, C-9:15, M-8:15**  
**C — Dance Orchestra**  
CKAC CKLW KDB KFH KGKO KLRA KLZ KOH KOMA KRLD KTRH KTSa KFOR KWKH WABC WACO WADC WALA WBNS WBRC WBT WCAO WDAE WDBJ WDBO WDNC WDRC WDSU WEAN WFBL WFEA WGLC WHEC WHK WHP WIBW WJAS WJSV WKBW WKRC WLAC WLWB WLWB WMAS WMBG WMBR WMT WNAO WNAO WNOX WOKO WORC WPG WQAM WSBT WSFA WSJS WSPD WTOC WVVV

**ED-11:30 p.m., E-10:30, C-9:30, M-8:30**  
**C — Dance Orchestra**  
CFRB CKAC CKLW KFH KGKO KLRA KLZ KMBC KOH KOMA KRLD KSCJ KTRH KTSa KFOR KWKH WABC WADC WBBM WBNS WBRC WBT WCAO WDAE WDBJ WDBO WDNC WDOE WDRC WDSU WEAN WFBL WFEA WHEC WHK WHP WIBW WICC WISN WJAS WJSV WKBW WKRC WLAC WLWB WLWB WMAS WMBD WMBR WMT WNAO WNAO WNOX WOC WPG WQAM WSBT WSFA WSJS WSPD WTOC WVVV

**R — Leo Reisman and Orchestra**  
KDYL KFI KFSD KGIR KGU KGW KHQ KOA KOMO KPO KTAR

## WEDNESDAY

**ED-6:00 p.m., E-5:00, C-4:00, M-3:00**  
**C — Buck Rogers, See Monday**

**ED-6:45 p.m., E-5:45, C-4:45, M-3:45**  
**B — Lowell Thomas, See Monday**

**ED-7:00 p.m., E-6:00, C-5:00, M-4:00**  
**C — Myrt and Marge, See Monday**

**B — Amos 'n' Andy, See Monday**

**ED-7:15 p.m., E-6:15, C-5:15, M-4:15**  
**R — Black Chamber, See Monday**  
**B — Tony and Gus, See Monday**

**ED-7:30 p.m., E-6:30, C-5:30, M-4:30**  
**C — Buck Rogers, See Monday**

**B — Red Davis, See Monday**

**C — The O'Neill's, See Monday**  
**R — Easy Aces, See Monday**

**ED-7:45 p.m., E-6:45, C-5:45, M-4:45**  
**C — Boake Carter, See Monday**

**B — Dangerous Paradise, See Monday**  
**R — Uncle Ezra, See Monday**

**ED-8:00 p.m., E-7:00, C-6:00, M-5:00**  
**R — One Man's Family**  
CFCH CRCT KDYL KFI KFYZ KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTAR KTBS KVOO WAVE WBAP WBEN WCAE WCKY

WCSH WDAE WDAY WEAF WEBC WEEI WFBR WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WLIT WMAQ WMC WQAI WOC WOW WPTF WRC WRW WSAI WSB WSM WSMB WTAG WTAM WTIC WTMJ WWJ WYWC

**B — Hal Kemp and Orchestra**  
KDKA KOIL KSO KWCR KWK WRAL WBZ WBZA WGAR WHAM WJRWJZ WLS WLW WMAL WREN WSYR

**C — Johnny and His Foursome**  
CKLW KMBC KMOX KRNT WABC WADC WBBM WCAO WCAU WDRC WEAN WFBL WFBM WHAS WHK WJAS WJSV WKBW WKRC WNAO WOKO WOWO WSPD

**ED-8:15 p.m., E-7:15, C-6:15, M-5:15**  
**C — Edwin C. Hill, See Monday**

**ED-8:30 p.m., E-7:30, C-6:30, M-5:30**  
**C — Everett Marshall; Victor Arden**  
CKLW KDB KERN KFBC KFPY KFRC KGB KHJ KLZ KMBC KMJ KMOX KOIN KOL KOMA KRLD KSL KVI KWG WABC WADC WBBM WBT WCAO WCAU WDRC WDSU WEAN WFBL WFBM WGR WHAS WIBW WJAS WJSV WKRC WLAC WNAO WOKO WOWO WSPD

**R — Wayne King, See Tuesday**  
**B — House of Glass; Drama**  
KDKA KOIL KSO WBAL WBZ WDKA WFLI WFLA WGAR WHAM WIOD WIS WJAX WJZ WLS WMAL WMT WPTF WREN WRVA WSOC WSYR WTAG WTVN WYWC

**ED-9:00 p.m., E-8:00, C-7:00, M-6:00**  
**R — Fred Allen; Lennie Hayton**  
KPRC KSD KSTP KTBS KVOO WBEN WCAE WCHS WDAF WEAF WEBC WEEI WFBR WGY WIOD WIS WJAR WJAX WKY WLIT WLW WMAQ WMC WQAI WOW WPTF WRC WRVA WSB WSM WSMB WTAG WTAM WTIC WTMJ WYWC

**B — Warden Lawes; Drama**  
KDKA KDYL KFI KGO KGW KHQ KOA KOIL KOMO KSO KWCR KWK WBAL WBZ WBZA WCKY WGAR WHAM WJR WJZ WKBW WLS WLW WMAL WREN WSYR  
**C — Chesterfield Program, See Mon.**

**ED-9:30 p.m., E-8:30, C-7:30, M-6:30**  
**C — George and Gracie**  
CKLW KDB KERN KFBC KFPY KFRC KGB KHJ KLZ KMBC KMJ KMOX KOIN KOL KOMA KRLD KSL KTRH KTSa KVI KWG WABC WADC WBBM WBIG WBT WCAO WCAU WCCO WDRC WDSU WEAN WFBL WFBM WHK WJAS WJSV WKBW WKRC WNAO WOKO WWO WSPD

**B — John Charles Thomas**  
KDKA KDYL KFI KGO KGW KHQ KOA KOIL KOMO KSO KWCR KWK WBAL WBZ WBZA WCKY WENR WGAR WHAM WJR WJZ WKBW WLW WMAL WREN WSYR

**ED-10:00 p.m., E-9:00, C-8:00, M-7:00**  
**C — Jack Pearl; Freddie Rich**  
CKLW KDB KERN KFBC KFPY KFRC KGB KHJ KLZ KMBC KMJ KMOX KOIN KOL KOMA KRLD KSCJ KSL KTRH KTSa KTUL KVI

KWG KWKH WABC WALA WBBM WBNS WBRC WBT WCAO WCAU WCCO WDAE WDBJ WDBO WDOE WDRC WDSU WEAN WFBL WFBM WGST WHAS WHEC WHK WHP WIBW WIBX WICC WJAS WJSV WKBW WKRC WLAC WMAS WMBD WMBG WMBR WMT WNAO WNAO WNBW WNOX WOC WOKO WOWO WQAM WREB WSBT WSMK WSPD WTOC

**R — Guy Lombardo and Orchestra**  
KPRC KSD KTBS KTHS KVOO WAVE WBEN WCAE WCHS WDAF WEAF WEEI WFAA WFBR WFLA WGY WHO WIOD WIS WJAR WJAX WJDX WKBW WKY WLIT WLW WMAQ WMC WQAI WOC WOW WPTF WRC WRVA WSB WSM WSMB WTAG WTAM WTVN WWJ WYWC

**B — Jimmy Fidler, Hollywood Gossip**  
KDKA KDYL KFI KGW KHQ KOA KOIL KOMO KPO KSO KWCR WBAL WBZ WBZA WCKY WENR WGAR WHAM WJR WJZ WLIT WMAL WREN WSYR

**ED-10:30 p.m., E-9:30, C-8:30, M-7:30**  
**C — Howard Barlow, Norman Cordon**  
CFRB CKAC CKLW KDB KFH KGKO KHJ KLRA KLZ KMBC KOH KOMA KRLD KSCJ KTRH KTSa KFOR KWKH WAAB WABC WACO WADC WALA WBBM WBIG WBRC WBT WCAO WCAU WDAE WDBJ WDBO WDNC WDOE WDRC WDSU WEAN WFBL WFBM WFEA WGLC WGR WHEC WHP WIBW WICC WISN WJAS WJSV WKRC WLAC WLWB WMAS WMBD WMBR WMT WNOX WOKO WORC WQAM WSBT WSFA WSJS WSPD WTOC

**R — Ray Noble and Orchestra**  
KDYL KFI KGW KHQ KOA KOMO KPO KSD KYW WAPI WAVE WBEN WCAE WCHS WEAF WEEI WFBR WGY WHO WJAR WJDX WKBW WLW WMAQ WMC WOW WRC WSB WSM WSMB WTAG WTAM WTVN WWJ

**ED-11:00 p.m., E-10:00, C-9:00, M-8:00**  
**C — Myrt and Marge, See Monday**  
**B — Amos 'n' Andy, See Monday**

**ED-11:15 p.m., E-10:15, C-9:15, M-8:15**  
**C — Dance Orchestra**  
KLRA WABC WALA WBRC WBT WCAO WCAU WDAE WDBJ WDBO WDNC WDOE WDRC WDSU WEAN WFBL WFBM WFEA WGLC WGR WHEC WHP WIBW WICC WISN WJAS WJSV WQAM WSFA WSJS WTOC

**C — Edwin C. Hill, See Monday**  
**ED-11:30 p.m., E-10:30, C-9:30, M-8:30**  
**C — Dance Orchestra**  
KLRA WABC WALA WBRC WBT WCAO WCAU WDBJ WDBO WDNC WDOE WDRC WDSU WEAN WFEA WGLC WGR WHEC WHP WIBW WICC WISN WJAS WJSV WQAM WPG WQAM WSFA WSJS WTOC

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

**ED-12:00 p.m., E-11:00, C-10:00, M-9:00**  
**R — Fred Allen; Lennie Hayton**  
KDYL KFI KGO KGW KHQ KOA KOMO

# THURSDAY

**ED-6:00 p.m., E-5:00, C-4:00, M-3:00**  
**C — Buck Rogers, See Monday**

**ED-6:45 p.m., E-5:45, C-4:45, M-3:45**  
**B — Lowell Thomas, See Monday**

**ED-7:00 p.m., E-6:00, C-5:00, M-4:00**  
**C — Myrt and Marge, See Monday**  
**B — Amos 'n' Andy, See Monday**

**ED-7:15 p.m., E-6:15, C-5:15, M-4:15**  
**B — Tony and Gus, See Monday**

**ED-7:30 p.m., E-6:30, C-5:30, M-4:30**  
**C — Buck Rogers, See Monday**

**R — Mollie Minstrels**  
 KSD KYW WBN WCHS WDAF  
 WEAU WGY WHO WJAR WMAQ  
 WRC WSAI WTAG WTAM WWJ

**B — Floyd Gibbons**  
 KDKA KOIL KSO WBAL WBZ  
 WBZA WENR WFIL WFLA WHAM  
 WIOD WIS WJAX WJZ WMAL  
 WMT WPTF WREN WSOC WYSR  
 WTAR WWNC

**ED-7:45 p.m., E-6:45, C-5:45, M-4:45**  
**C — Boake Carter, See Monday**

**ED-8:00 p.m., E-7:00, C-6:00, M-5:00**  
**R — Rudy Vallee and Orchestra**  
 CFCF CRCT KDYL KFI KFYZ  
 KGO KGW KHQ KOA KOMO KPRC  
 KSD KSTP KTAR KVOO WAPI  
 WBAF WBNB WCAE WCHS WDAY  
 WEAU WEEB WEEI WFBR WFI  
 WFLA WGY WHO WIOD WIS  
 WJAR WJAX WJDX WKY WLW  
 WMAQ WMC WOAI WOC WOW  
 WPTF WRC WRVA WSB WSM  
 WSMB WTAG WTAM WTIC WWJ  
 WWNC

**C — David Ross; Readings**  
 CKLW KDB KERN KFAB KFVK  
 KFPY KFRC KGB KHJ KLZ KMBC  
 KMJ KMOX KOIN KOL KSL KVI  
 KWG WABC WADC WBBM WCAO  
 WCAU WCCO WDRS WEAN WFBL  
 WFBM WGR WHAS WHK WJAS  
 WJSV WKRC WNAS WNAC WOKO  
 WSPD

**ED-8:30 p.m., E-7:30, C-6:30, M-5:30**  
**C — Leith Stevens' Harmonies**  
 CKLW KMBC KMOX WABC WADC  
 WBBM WCAO WCAU WDRS WEAN  
 WFBL WFBM WGR WHAS WHK  
 WJAS WJSV WKRC WNAC WOKO  
 WOWO WSPD

**ED-9:00 p.m., E-8:00, C-7:00, M-6:00**  
**C — Glen Gray; Walter O'Keefe**  
 CKLW KFAB KFH KLRA KMBC  
 KMOX KOMA KRLD KSCJ KTRH  
 KTSa KTUL KWKH WABC WACO  
 WADC WALA WBBM WBIG WBSN  
 WBRB WBT WCAO WCAU WCCO  
 WDAE WDBJ WDBO WDOD WDRS  
 WDSU WEAN WFBL WFBM WFEA  
 WGST WHAS WHEC WHK WHP  
 WIBW WICC WISN WJAS WJSV  
 WKBW WKRC WLAC WLWB WLBZ  
 WMBD WMBG WMBR WMT WNAC  
 WNAX WOKO WORC WOWO WPG  
 WQAM WREC WSFA WSJS WSPD WTOC

**R — Maxwell House Show Boat**  
 KDYL KFI KFSD KGHM KGIR  
 KGO KGW KHQ KOA KOMO KPRC  
 KSD KSTP KTAR KTSB WAPI  
 WAVE WBAF WBNB WCAE WCHS  
 WDAF WEAU WEEI WFBR WFI  
 WFLA WGY WHO WIOD WIS WJAR

WJAX WJDX WKBF WKY WLW  
 WMAQ WMC WOAI WOC WOW  
 WRC WRVA WSAI WSB WSM  
 WSMB WTAG WTAM WTIC WTMJ  
 WWJ WWNC

**B — Death Valley Days; Drama**  
 KDKA KOIL KSO KWCR KWK  
 WBAL WBZ WBZA WGAR WHAM  
 WJR WJZ WLS WLW WMAL WREN  
 WYSR

**ED-9:30 p.m., E-8:30, C-7:30, M-6:30**  
**C — Fred Waring's Pennsylvanians**  
 CFRB CKLW CRCM KDB KERN  
 KFAB KFVK KFH KFPY KFRC  
 KGB KGKO KHJ KLRA KLZ KMBC  
 KMJ KMOX KOH KOIN KOL KOMA  
 KRLD KSCJ KSL KTRH KTSa  
 KTUL KVI KVOR KWG WABC  
 WACO WADC WALA WBBM WBIG  
 WBSN WBRB WBT WCAO WCAU  
 WCCO WDAE WDBJ WDBO WDNC  
 WDOD WDRS WDSU WEAN WFBL  
 WFBM WFEA WGLC WGST WHAS  
 WHEC WHK WHP WIBW WICC  
 WISN WJAS WJSV WKBW WKBW  
 WKRC WLAC WLWB WLBZ WNAS  
 WMBD WMBG WMBR WMT WNAC  
 WNAX WNOX WOKO WORC WOWO  
 WPG WQAM WREC WSFA WSJS  
 WSPD WTOC

**B — Mexican Musical Tours**  
 KDKA KOIL KSO WBAL WBZ  
 WBZA WCKY WENR WFIL WGAR  
 WHAM WJZ WMAL WMT WREN

**ED-10:00 p.m., E-9:00, C-8:00, M-7:00**  
**R — Paul Whiteman's Music Hall**  
 CFCF CRCT KDYL KFI KFYZ  
 KGO KGW KHQ KOA KOMO KPRC  
 KSD KSTP KTAR KTSB KTHS  
 KVOO WAPI WAVE WBAF WBNB  
 WCAE WCHS WDAF WDAY WEAU  
 WEEB WEEI WFBR WFI WFLA  
 WGY WHO WIBA WIOD WIS  
 WJAR WJAX WJDX WKY WLW  
 WMAQ WMC WOAI WOC WOW  
 WPTF WRC WRVA WSB WSM  
 WSMB WTAG WTAM WTIC WTMJ  
 WWJ WWNC

**ED-10:30 p.m., E-9:30, C-8:30, M-7:30**  
**C — Horace Heidt, See Tuesday**

**ED-10:45 p.m., E-9:45, C-8:45, M-7:45**  
**C — Voice of Crusaders, See Tuesday**

**ED-11:00 p.m., E-10:00, C-9:00, M-8:00**  
**C — Myrt and Marge, See Monday**

**B — Amos 'n' Andy, See Monday**

**ED-11:15 p.m., E-10:15, C-9:15, M-8:15**  
**C — Dance Orchestra**  
 CFRB CRAC CKLW KDB KFH  
 KGKO KLRA KLZ KOH KOMA  
 KRLD KSCJ KTRH KTSa KVOR  
 KWKH WABC WACO WADC WALA  
 WBBM WBSN WBRB WBT WCAO  
 WCCO WDAE WDBJ WDBO WDNC  
 WDOD WDRS WDSU WEAN WFBL  
 WFBM WFEA WGLC WHEC WHK  
 WHP WIBW WISN WJAS WJSV  
 WKBW WKRC WLAC WLWB WLBZ  
 WNAS WMBD WMT WNAC WNAX  
 WNOX WOKO WORC WPG WQAM  
 WBSB WSFA WSJS WSPD WTOC  
 WWVA

**ED-11:30 p.m., E-10:30, C-9:30, M-8:30**  
**C — Glen Gray; Walter O'Keefe**  
 KDB KERN KFVK KFPY KFRC  
 KGB KHJ KLZ KMJ KOH KOIN  
 KOL KSL KVI KVOR KWG

# FRIDAY

**ED-6:30 p.m., E-5:30, C-4:30, M-3:30**  
**C — H. V. Kattenberg**  
 CKLW KFH KGKO KLZ KMBC KOH  
 KOMA KRLD KSCJ KSL KTRH  
 KVOR KWKH WAAB WABC WBBM  
 WCAO WCAU WDNC WDRS WFBL  
 WGLC WHEC WHK WISN WJAS  
 WJSV WKBW WLAC WLWB WMT  
 WOKO WORC WSPD

**ED-6:45 p.m., E-5:45, C-4:45, M-3:45**  
**B — Lowell Thomas, See Monday**

**ED-7:00 p.m., E-6:00, C-5:00, M-4:00**  
**C — Myrt and Marge, See Monday**  
**B — Amos 'n' Andy, See Monday**

**ED-7:15 p.m., E-6:15, C-5:15, M-4:15**  
**R — Black Chamber, See Monday**  
**B — Tony and Gus, See Monday**

**ED-7:30 p.m., E-6:30, C-5:30, M-4:30**  
**B — Red Davis, See Monday**  
**C — The O'Neill's, See Monday**

**ED-7:45 p.m., E-6:45, C-5:45, M-4:45**  
**C — Boake Carter, See Monday**

**B — Dangerous Paradise, See Monday**  
**R — Uncle Ezra, See Monday**

**ED-8:00 p.m., E-7:00, C-6:00, M-5:00**  
**R — Cities Service Concert**  
 CRCT KDYL KOA KPRC KSD  
 KSTP KTSB KTHS KVOO KYW  
 WBAF WBNB WCAE WCHS WDAF  
 WEAU WEEB WEEI WFAA WFBR  
 WGY WHO WJAR WKY WLIT  
 WOAI WOC WOW WRC WRVA  
 WSAI WTAG WTAM WTIC WWJ

**B — Irene Rich; Drama**  
 KDKA KOIL KSO KWCR WAVE  
 WBAL WBZ WBZA WHAM WJZ  
 WLS WMAL WMC WREN WBS  
 WSM WYSR

**C — Mrs. Franklin D. Roosevelt**  
 CFRB CKLW KDB KERN KFAB  
 KFVK KFH KFPY KFRC KGB  
 KHJ KLRA KLZ KMBC KMJ KMOX  
 KOIN KOL KOMA KRLD KSCJ  
 KSL KTRH KTSa KVI KWG WABC  
 WADC WBBM WBSN WBRB WBT  
 WCAO WCAU WCCO WDAE WDBJ  
 WDRS WDSU WEAN WFBL WFBM  
 WGR WGST WHAS WHEC WHK  
 WJAS WJSV WKRC WLAC WLWB  
 WMBG WMBR WNAS WNOX  
 WOKO WORC WQAM WREC WSPD

**ED-8:15 p.m., E-7:15, C-6:15, M-5:15**  
**C — Edwin C. Hill, See Monday**

**B — Morton Downey**  
 KOIL KSO WBZ WBZA WCKY  
 WFIL WHAM WIRE WJZ WLS  
 WMAL WMT WREN WYSR

**ED-8:30 p.m., E-7:30, C-6:30, M-5:30**  
**B — Ruth Etting; Red Nichols**  
 KDKA KOIL KSO KWK WBAL  
 WBZ WBZA WCKY WFIL WGAR  
 WHAM WJR WJZ WLS WMAL  
 WMT WREN WYSR

**C — True Story Court**  
 CKLW KMBC WABC WADC WBBM  
 WCAO WCAU WCCO WDRS WEAN  
 WFBL WGR WHK WJAS WJSV  
 WKRC WNAS WOKO

**ED-9:00 p.m., E-8:00, C-7:00, M-6:00**  
**C — March of Time**  
 CKLW KDB KERN KFVK KFPY  
 KFRC KGB KHJ KLZ KMJ KMOX  
 KOIN KOL KRLD KSL KVI KWG

## FRIDAY (Continued)

WABC WADC WBBM WCAO WCAU  
WCCO WDRS WDSU WEAN WFLA  
WFBM WGST WHAS WHK WJAS  
WJSV WKBW WKRC WNBC WOKO  
WOWO WSPD

**R — Frank Munn; Abe Lyman**  
KSD WBEN WCAE WCSH WDAF  
WEAF WEEL WFRB WGY WJAR  
WLIT WLV WMAQ WOV WRC  
WTAG WTAM WWJ

**B — Beatrice Lillie**  
CFBC CRCT KDKA KDYL KFI  
KGW KHQ KOA KOIL KOMO KPO  
KPRC KSO KTHS KWCR KWK  
WAPI WAVE WBAL WCKY WFLA  
WGAR WHAM WIOD WIS WJAX  
WJDX WJZ WKY WLIT WLS WMAJ  
WMC WPTF WREN WSB WSMB  
WSYR WTAR WWNC

**ED-9:30 p.m., E-8:30, C-7:30, M-6:30**  
**C — Hollywood Hotel**

CFBR CKAC CKLW KDB KERN  
KFAB KFBK KFH KFPY KFRC  
KGB KGKO KHJ KLRA KLZ KMBC  
KMJ KMOX KOH KOIN KOL KOMA  
KRLD KSCJ KSL KTRH KTSK  
KTUL KVI KVOR KWG KWKH  
WABC WACO WADC WALA WBBM  
WBIG WBNS WBRC WBT WCAO  
WCAU WCCO WDAE WDBJ WDOB  
WDNC WDOO WDRS WDSU WEAN  
WFBL WFBM WFEA WGST WHAS  
WHCC WHK WHP WIBW WIBX  
WICC WISN WJAS WJSV WKBH  
WKBW WKRC WLAC WLWB WLZB  
WMAS WMBD WMBG WMBR WMT  
WNAC WNAX WNOX WOKO WORC  
WOWO WPG WQAM WREC WSBT  
WSPA WJSV WSPD WTOC

**R — Pick and Pat**

KSD WBEN WCAE WCSH WDAF  
WEAF WFRB WGY WHO WJAR  
WLIT WMAQ WOC WOW WRC  
WSAI WTAG WTAM WTIC WWJ

**B — Armour Program; Phil Baker**

KDKA KDYL KFI KGO KGW KHQ  
KOA KOIL KOMO KPRC KSO  
KSTP KTAR KWK WAPI WAVE  
WBAL WBZ WBZA WEBC WENR  
WFAA WFLA WGAR WHAM WIOD  
WJAX WJR WJZ WKY WMC WOAI  
WREN WRVA WSB WSM WSMB  
WTMJ WWNC

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

**R — First Nighter; Drama**

KDYL KFI KGO KGW KHQ KOA  
KOMO KPRC KSD KSTP WBEN  
WCAE WCSH WDAF WEAF WEBC  
WEEL WFAA WFRB WGY WHO  
WJAR WKY WLIT WLW WMAQ  
WMC WOAI WOC WOW WRC WSB  
WSM WSMB WTAG WTAM WTIC  
WTMJ WWJ

**B — Joe Cook; B. A. Rolfe**

KDKA KOIL KSO KWCR KWK  
WBZA WCKY WENR WFIL WFLA  
WGAR WHAM WIOD WIS WJAX  
WJZ WMAL WPTF WREN WSOC  
WSYR WTAR WWNC

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

**C — Col. Stoopnagle and Budd**

CKLW KGB KGKO KHJ KLRA  
KMBC KOH KOL KOMA KRLD  
KSCJ KVI KVOR KWKH WAAB  
WABC WACO WBBM WBIG WBNS  
WBT WCAO WCAU WCCO WCHS  
WDBJ WDNC WDOO WDRS WDSU  
WEAN WFBL WGR WHAS WHCC

WHP WICC WJAS WJSV WKRC  
WLAC WMAS WMBD WMBG WMT  
WNAC WNOX WOC WOKO WORC  
WPG WREC WSBT WJSJ WSPD

**R — Coca Cola; Frank Black**

CFBC CRCT KDYL KFI KFSB  
KFYR KGHL KGIR KGU KGW  
KHQ KOA KOMO KPO KSTP KTAR  
KTHS KTHS KYW WAVE WCAE  
WCSH WDAY WEAF WEBC WEEL  
WFRB WFLA WGY WIBA WIS  
WJAR WJAX WJDX WKBF WLW  
WMC WOW WPTF WRC WSB  
WSMB WSOC WTAG WTAM WTAR  
WTIC WTMJ WWJ WWNC

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

**C — Myrt and Marge, See Monday**

**B — Amos 'n' Andy, See Monday**

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

**C — Dance Orchestra**

KLRA WABC WALA WBRC WBT  
WCAO WDAE WDBO WDNC WDOO  
WDRS WDSU WEAN WFEA WHK  
WJSV WLAC WLWB WMAS WNAC  
WNOX WORC WPG WQAM WSPA  
WJSJ WTOC

**C — Edwin C. Hill, See Monday**

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

**B — Joe Cook; B. A. Rolfe**

KDYL KFI KFSB KFYR KGHL  
KGIR KGW KHQ KOA KOMO KPO  
KPRC KTAR KTHS KTHS KVOO  
WAVE WBAP WDAY WEBC WIBA  
WJDX WKY WMC WOAI WSB  
WSM WSMB WTMJ

## SATURDAY

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

**C — Frederic William Wile**

CKAC CKLW KDB KERN KFBK  
KFPY KFRC KGB KHJ KLRA KLZ  
KMJ KMOX KOIN KOL KRLD  
KSL KTRH KTSK KVI KWG WAAB  
WABC WALA WBBM WBIG WBNS  
WBC WBT WCAO WCAU WCCO  
WDAE WDBJ WDOB WDNC WDOO  
WDSU WFBL WFBM WGR WGST  
WHAS WHCC WHK WICC WJSV  
WKRC WMBR WNOX WQAM  
WREC WTOC

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

**C — Socynoyland Sketches**

WABC WDRS WEAN WGR WICC  
WLWB WMAS WNBC WOKO WORC

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

**C — Victor Arden and Orchestra**

CFRB CKAC CKLW WABC WBBM  
WCAO WCAU WFBL WHK WJAS  
WNAC WOKO

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

**C — Roxy and His Gang**

CFRB CKAC CKLW KDB KERN  
KFBK KFPY KFRC KGB KHJ  
KLRA KLZ KMBC KMJ KMOX  
KOIN KOL KOMA KRLD KSL  
KTRH KTSK KVI KWG WABC  
WBBM WBRC WCAO WCAU WCCO  
WDOO WDRS WDSU WEAN WFBL  
WFBM WGR WGST WHAS WHK  
WIBW WJAS WJSV WKRC WLAC  
WMT WNAC WOKO WORC WREC  
WSPD

**R — Lucky Strike; Lennie Hayton**

KDYL KFI KFSB KFYR KGHL  
KGIR KGU KGW KHQ KOA KOMO  
KPO KPRC KSD KSTP KTAR  
KTHS KYW WAPI WAVE WBEN

WCAE WCSH WDAF WDAY WEAF  
WEBC WEEL WFRB WFLA WHIO  
WHO WIBA WIOD WIRE WIS  
WJAR WJAX WJDX WKY WLW  
WMAQ WMC WOAI WOW WPTF  
WRC WSB WSMB WSOC WTAG  
WTAM WTAR WTIC WWNC

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

**C — Benay Venuta**

CKLW KDB KERN KFBK KFPY  
KFRC KGB KHJ KLZ KMBC KMJ  
KMOX KOIN KOL KRLD KSL KVI  
KWG KWKH WABC WADC WBBM  
WBT WCAO WCAU WCCO WDRS  
WEAN WFBL WFBM WGR WHAS  
WHK WJAS WJSV WKRC WNAC  
WOKO WOWO WSPD

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

**R — Radio City; Ray Noble**

KDYL KFI KFYR KGW KHQ KOA  
KOMO KPO KPRC KSD KSTP  
KTHS KTHS KYW WAPI WAVE  
WBAP WEAN WCSH WDAF WDAY  
WEAF WEBC WEEL WFRB WFLA  
WGY WHIO WIBA WIOD WIS  
WJAR WJAX WJDX WKY WLW  
WMAQ WMC WOAI WOV WPTF  
WRC WRVA WSB WSMB WSOC  
WTAG WTAM WTAR WTIC WTMJ  
WWJ WWNC

**C — Chesterfield Program, see Monday**

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

**C — Richard Himber and Orchestra**

CKLW KFH KMBC KMOX WAAB  
WABC WADC WBBM WBNS WBT  
WCAO WCAU WCCO WDRS WHSU  
WEAN WFBL WFBM WGST WHK  
WJAS WJSV WKBW WKRC WOKO  
WSPD

**B — National Barn Dance**

KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WGAR WHAM  
WJR WJZ WKBF WLS WMAL  
WREN WSYR

**R — Al Jolson; Victor Young**

KDYL KFYR KOA KSTP KYW  
WBEN WCAE WCSH WDAF WDAY  
WEAF WEBC WEEL WFRB WGY  
WHIO WIBA WJAR WMAQ WRC  
WSAI WTAG WTAM WTIC

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

**C — California Melodies**

CFRB CKLW KDB KFH KGKO  
KHJ KLRA KLZ KMBC KOH KOMA  
KRLD KSCJ KTRH KTSK KVI  
KWKH WAAB WABC WACO WADC  
WALA WBIG WBT WCAO WCAU  
WCCO WDAE WDBJ WDOB WDNC  
WDOO WDRS WDSU WEAN WFBL  
WFBM WFEA WGLC WGR WHCC  
WHP WIBW WICC WISN WJAS  
WJSV WKRC WLAC WLWB WLZB  
WMAS WMBD WMT WNAX WNOX  
WOKO WORC WPG WQAM WSBT  
WSPA WJSV WSPD WTOC WVVV

**R — Let's Dance**

KFYR KPRC KSD KTHS KTHS  
KVOO KYW WAVE WBAP WBEN  
WCAE WCSH WDAY WEAF WEBC  
WEEL WFAA WFRB WFLA WGY  
WIBA WIOD WIS WJAR WJAX  
WJDX WKY WLW WMAQ WMC  
WOAI WOW WRC WSB WSMB  
WTAG WTAM WTAR WTIC WTMJ  
WWJ WWNC

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

**C — Richard Himber and Orchestra**

KDB KERN KFBK KFPY KFRC

## SATURDAY (Continued)

KGB KHJ KLZ KMJ KOIN KOL  
KSL KVI KWG

### B — National Barn Dance

KDYL KFI KGO KGW KHQ KOA  
KOMO WAVE WJDX WLS WMC  
WSB WSMB

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

#### C — Dance Orchestra

CKAC CKLW KLRA WAAB WABC  
WBT WDAE WDBJ WDDO WDBD  
WDRS WDSU WFBM WGLC WGR  
WHCC WHP WIBW WJAS WJSV  
WKRK WLAC WORC WQAM WSBT  
WSFA WSJS WTOC

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

#### C — Dance Orchestra

CKAC CKLW KDB KFH KGKO  
KLRA KLZ KMBC KOH KOMA  
KTRH K TSA KWKH WABC WBNS  
WCAU WDBO WDNC WDDO WEAN  
WFBL WFBM WGLC WHP WIBW  
WICC WJSV WKBW WKRC WLAC  
WLBW WNAC WNOX WOKO WPG  
WQAM WSBT WTOC

## SUNDAY

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

#### C — Salt Lake Tabernacle Choir

CKLW KFH KGKO KLRA KLZ  
KOH KRLD KSCJ KSL KTRH  
K TSA KWKH WABC WACO WADC  
WALA WBBM WBNS WCCO WDAE  
WDBO WDDO WDRS WDSU WEAN  
WFBL WFBM WFEA WGLC WHK  
WHP WIBW WICC WISN WJAS  
WJSV WLAC WLBW WLBZ WMAS  
WMBD WMBR WMT WNAZ WNAX  
WNOX WOKO WORC WQAM WREC  
WSFA WSPD

#### R — Major Bowes' Family

KDYL KFJR KOA KPRC KSTP  
KTBS KVOO WAPI WCAE WDAF  
WDAY WEAF WEEB WFAA WFBR  
WFLA WGY WHO WIOD WJAR  
WJAX WYK WMAQ WMC WOAI  
WOC WRC WRVA WSAI WSMB  
WTAG WTAM WWNC

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

#### C — Romany Trail

CKLW KMBC KMOX WABC WADC  
WBBM WCAO WCAU WDRS WEAN  
WFBL WFBM WGR WHAS WJAS  
WJSV WKH WKRC WMAS WNAC  
WOKO WORC WOVO WSPD

#### B — Radio City Symphony

CFCF CRCT KDKA KDYL KFI  
KFYR KGO KGW KHQ KOA KOIL  
KOMO KPRC KSO KVOO WAPI  
WBAL WBZ WBZA WCKY WDAY  
WEBC WGAR WHAM WIS WJDX  
WJR WJZ WKY WMAL WOAI  
WREN WSMB WSYS WWNC

### ED-1:00 p.m., E-12:00, C-11:00, M-10:00

#### C — Church of the Air

CFRB CKLW KFH KGKO KHJ  
KLRA KLZ KOH KRLD KSCJ KSL  
KTRH K TSA KWKH WAAB WABC  
WACO WALA WBBM WBIG WBNS  
WBT WCAO WCCO WDAE WDBJ  
WDBO WDNC WDDO WDRS WDSU  
WFBL WGLC WGR WHCC WHP  
WIBW WJAS WJSV WKRC WFLC  
WLBW WLBZ WMBR WMT WNOX  
WOKO WORC WPG WQAM WREC  
WSBT WSFA WSJS WSPD WVVVA

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

#### R — Miss Bab-o's Surprise

WBEN WCAE WCSH WDAF WEAF  
WEEI WFBR WFI WGY WJAR  
WMAQ WOV WRC WSAI WTAG  
WTAM WWJ

#### W — Mary Eastman; Evan Evans

CKLW KFAB KFH KLZ KMBC  
KMOX KOMA KRLD KSCJ KSL  
WABC WADC WBBM WBNS WBT  
WCAU WCCO WDRS WFBL WFBM  
WGR WHAS WHK WJAS WJSV  
WOWO

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

#### C — Lazy Dan, Minstrel Man

CKLW KDB KERN KFAB KFBK  
KFPY KFRC KGB KHJ KLZ KMBC  
KMJ KMOX KOIN KOL KOMA  
KRLD KSL KVI KWG WABC WADC  
WBBM WBNS WBT WCAO WCAU  
WCCO WDBJ WDRS WDSU WEAN  
WFBL WFBM WGST WHAS WHCC  
WHK WIBW WJAS WJSV WKBW  
WKRC WLAC WMBG WMT WNAC  
WOWO

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

#### C — Eddie Dunstetter at Organ

CKLW KDB KERN KFAB KFBK  
KFPY KFRC KGB KHJ KLZ KMBC  
KMJ KMOX KOIN KOL KOMA  
KRLD KSL KVI KWG WABC WADC  
WCCO WDBJ WDRS WDSU WEAN  
WFBL WFBM WGST WHAS WHCC  
WHK WIBW WJAS WJSV WKBW  
WKRC WLAC WMBG WMT WNAC  
WOWO

#### B — Lux Program; Dramas

KDKA KDYL KFI KFJR KGO  
KGW KHQ KOA KOIL KOMO KPRC  
KSO KSTP KTBS KTHS KVOO  
KWCR KWK WBAL WBZ WBZA  
WDAY WEBC WFAA WGAR WHAM  
WIBA WJR WJZ WKY WLW WMAL  
WOAI WPTF WREN WRVA WSYS  
WTAR

#### R — Carefree Carnival

KSD KYW WCAE WCSH WEAF  
WEEI WFBR WGY WJAR WMAQ  
WOW WRC WSAI WTAG WTAM  
WWJ

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

#### C — N. Y. Philharmonic Symphony

CFRB CKAC CKLW KFH KGKO  
KHJ KLRA KLZ KOH KRLD KSCJ  
KSL KTRH K TSA KVOR KWKH  
WABC WADC WALA WBIG WBNS  
WBT WCAO WCAU WCCO WDAE  
WDBJ WDBO WDNC WDDO WDRS  
WDSU WEAN WFBL WFBM WFEA  
WGLC WGR WHCC WHK WHP  
WIBW WICC WISN WJAS WJSV  
WKRC WLAC WLBW WLBZ WMAS  
WMBD WMBR WMT WNAC WOKO  
WORC WQAM WREC WSBT WSFA  
WSJS WSPD WTOC

#### R — Sally of the Talkies

WAPI WBEN WCAE WCSH WDAF  
WEAF WEEI WFBR WGY WHO  
WJAR WJDX WLIT WMAQ WMC  
WOC WOW WRC WSAI WSB WSM  
WSMB WTAG WTAM WWJ

### ED-3:30 p.m., E-2:30, C-1:30, M-12:30

#### R — Penthouse Serenade

KDYL KFI KGO KGW KHQ KOA  
KOMO KSD WBEN WCAE WCSH  
WDAF WEAF WEEI WFBR WGY  
WHO WJAR WLIT WLW WMAQ  
WOC WOW WRC WTAG WTAM  
WTIC WWJ

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

#### Rev. Charles E. Coughlin

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

#### R — Rhythm Symphony

KDYL KFI KGW KOA KOMO KPO  
KPRC KTBS WAPI WAVE WBAP  
WBEN WCSH WDAF WEAF WEBC  
WEEI WFBR WFLA WGY WIBA  
WIOD WJAR WJAX WJDX WLIT  
WMAQ WMC WOAI WPTF WRC  
WRVA WSAI WSB WSM WSMB  
WTAG WTAM WTIC WWJ

#### B — Jolly Coburn and Orchestra

KDKA KOIL KSO KWCR WBAL  
WBZ WBZA WCKY WENR WLIT  
WJZ WKBF WMAL WREN WSYS

### ED-4:30 p.m., E-3:30, C-2:30, M-1:30

#### R — Harry Reser and Orchestra

CFCF CRCT KTBS KTHS KVOO  
KYW WBAP WBEN WCAE WCSH  
WDAF WEAF WEEI WFBR WGY  
WJAR WKY WMAQ WOAI WRC  
WIBA WTAG WTAM WTIC WWJ

### ED-4:45 p.m., E-3:45, C-2:45, M-1:45

#### R — Dream Drama

WBEN WCAE WCSH WDAF WEAF  
WEEI WFBR WFI WGY WJAR  
WMAQ WRC WSAI WTAG WTAM  
WTIC WWJ

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

#### C — Country Church of Hollywood

CKLW KFH KLRA KLZ KMBC  
KMOX KOMA KRLD KSL KTRH  
K TSA KTUL WAAB WABC WADC  
WBBM WBIG WBRG WBT WCAO  
WCAU WCCO WDDO WDRS WDSU  
WEAN WFBL WFBM WGR WGST  
WHAS WHCC WHK WIBW WJAS  
WJSV WKBN WKRC WLAC WLBZ  
WMAS WMBG WOKO WORC WOWO  
WREC WSPD

#### R — Sentinels Serenade

CFCF CRCT KDYL KFI KFJR  
KGO KGW KHQ KOA KOMO WAVE  
WBEN WCAE WCSH WDAF WEAF  
WEBC WEEI WFBR WFI WGY  
WHO WIBA WJAR WKBF WMAQ  
WMC WOW WOV WRC WSAI WSB  
WSM WTAG WTAM WTIC WTMJ  
WWJ

#### B — Roses and Drums

KDKA KOIL KPRC KSO KTHS  
KWCR KWK WBAL WBAP WBZ  
WBZA WENR WGAR WHAM WJR  
WJZ WKY WLW WMAL WOAI  
WREN WSYS

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

#### C — Frank Crumit; Julia Sanderson

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

#### R — Tony Wons

CFCF CRCT KDYL KFI KFSD  
KFYR KGW KHQ KOA KOMO KPO  
KPRC KSD KSTP KTAR KTHS  
KVOO KYW WAPI WAVE WBAP  
WBEN WCAE WCSH WDAF WDAY  
WEAF WEBC WEEI WFBR WGY  
WHO WIBA WIOD WIS WJAR  
WJAX WJDX WKBF WKY WMAQ  
WMC WODX WOW WPTF WRC

# SUNDAY (Continued)

WRVA WSAI WSB WSBM WTAG  
WTAM WTAR WTIC WTMJ WWJ  
WWNC

## B — Cook Travelogues

KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WENR WENR  
WFI WGAR WHAM WJR WJZ  
WMAL WREN WSYR

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

## B — Becker's Dog Chats

KDKA KDYL KFI KGO KGW KHQ  
KOA KOIL KOMO KSO KWCR KWK  
WBAL WBZ WBZA WENR WGAR  
WHAM WJR WJZ WMAL WREN  
WSYR

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

## C — National Amateur Night

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

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

## C — Smilin' Ed McConnell

CKLW KDB KERN KFAB KFBK  
KFPY KFRC KGB KHJ KLZ KMJ  
KMOX KOIN KOL KRLD KSL KVI  
KWG WAAB WABC WBMM WBNS  
WBRC WBT WCAU WCCO WDRG  
WDSU WEAN WFBL WFBM WFEA  
WGST WHAS WHK WHP WICC  
WISN WJAS WJSV WKBW WKRC  
WLAC WLWB WLWZ WORC WQAM  
WRCR WVVVA

## B — Campana Grand Hotel

KDKA KDYL KFI KGO KGW KHQ  
KOA KOIL KOMO KSO KSTP KWCR  
KWK WBAL WBZ WBZA WEBC  
WENR WGAR WHAM WJR WJZ  
WMAL WREN WSYR WTMJ

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

## C — Voice of Experience

CKLW KMBC KMOX WAAB WABC  
WBMM WBT WCAO WCAU WCCO  
WDRG WEAN WFBL WHAS WHK  
WJAS WJSV WKBW WKRC WNC  
WOWO WVVVA

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

## B — Jack Benny; Don Bestor

KDKA KDYL KFI KGO KGW KHQ  
KOA KOIL KOMO KPCO KSTP  
KWCR KWK WBAL WBAP WBZ  
WBZA WEBC WGAR WHAM WIBA  
WJDX WJR WJZ WKY WLS WLW  
WMAL WMC WOAI WREN WSB  
WSM WSBM WSYR WTMJ

## C — Roadways of Romance

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

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

## B — Joe Penner; Ozlie Nelson

KDKA KDYL KFI KFYR KGO  
KGW KHQ KOA KOIL KOMO KPCO  
KSO KSTP KTAR KVOO KWCR  
KWK WBAL WBZ WBZA WDAY  
WEBC WFAA WFLA WGAR WHAM  
WIBA WIOD WJAX WJDX WJR  
WJZ WKY WLS WMAL WMC WOAI

WPTF WREN WRVA WSB WSM  
WSMB WSYR WTMJ

## R — American Radiator Musical

WBEN WCAE WCHS WEA F WFR  
WGY WJAR WMAQ WOW WRC  
WSAI WTAG WTAM WWJ

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

## R — Fitch Program; Wendell Hall

CFRC KSD WBEN WCAE WCHS  
WEAF WFRB WGY WHO WJAR  
WKBK WLIT WMAQ WOC WOW  
WRC WSAI WTAG WTAM WTIC  
WWJ

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

## C — Ethel Merman; Al Goodman

CKLW KDB KERN KFAB KFBK  
KFPY KFRC KGB KHJ KLRA KLZ  
KMBC KMJ KMOX KOIN KOL  
KOMA KRLD KSL KTRH KTSB  
KTUL KVI KWG WAAB WABC  
WADC WBMM WBRC WBT WCAO  
WCAU WCCO WDRG WDSU WEAN  
WFBL WFBM WGR WGST WHAS  
WHK WJAS WJSV WKRC WOKO  
WOWO WSPD

## R — Major Bowes' Amateur Hour

CFRC CRCT KDYL KFI KFYR  
KGO KGW KHQ KOA KOMO KPCO  
KSD KSTP KTAR KVOO WAPI  
WAYE WBEN WBZ WBZA WCAE  
WCHS WDAF WDAY WEA F WEBC  
WFAA WFBK WFLA WGY WHO  
WIOD WIS WJAR WJAX WJDX  
WKY WLIT WLW WMAQ WMC  
WOAI WOC WOW WPTF WRC  
WRVA WSB WSM WSBM WTAG  
WTAM WTIC WTMJ WWJ WWNC

## B — General Motors Symphony

KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WCKY WGAR  
WHAM WJR WJZ WLS WREN  
WSYR

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

## C — Gulf Headliners

CKLW KLRA KRLD KTRH KTSB  
WABC WACO WADC WALA WBIG  
WBNS WBRC WBT WCAO WCAU  
WDAE WDBJ WDBO WDOD WDRG  
WDSU WEAN WFEA WGST WHAS  
WHEC WHK WJAS WJSV WKRC  
WLAC WLWB WMAS WMBG WMBR  
WNAC WOKO WORC WOWO WQAM  
WREC WSPD WTOC

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

## C — Ford Symphony

CFRB CKLW KDB KERN KFBK  
KFI KFPY KFRC KGB KGKO  
KHJ KLRA KLZ KMBC KMJ  
KMOX KOH KOIN KOL KOMA  
KRLD KSCJ KSL KTRH KTSB  
KTUL KVI KFOR KWKB WABC  
WACO WADC WALA WBMM WBIG  
WBNS WBRC WBT WCAO WCAU  
WCCO WDAE WDBJ WDBO WDNB  
WDOD WDRG WDSU WEAN WFBL  
WFBM WFEA WGLC WGR WGST  
WHAS WHEC WHK WHP WJBW  
WIBX WICC WISN WJAS WJSV  
WKBH WKBW WKRC WLAC  
WLWB WLWZ WMAS WMBR WMT  
WNAC WNAX WNOX WOKO WORC  
WOWO WQAM WSBT WSFA WSJS  
WSPD WTOC WVVVA

## R — Manhattan Merry-Go-Round

CFRC KDYL KFI KGO KGW KHQ  
KOA KOMO KSD KSTP WDAF  
WEAF WEBC WFRB WFI WGY  
WHO WJAR WMAQ WOC WOW  
WRC WSAI WTAG WTAM WTIC  
WTMJ WWJ

B — Silken Strings; Charles Previn  
KDKA KDYL KFI KGO KGW KHQ  
KOA KOAI KOIL KOMO KPCO  
KSTP KWCR KWK WBAL WBAP  
WBZ WBZA WEBC WGAR WHAM  
WIBA WJR WJZ WKY WLS WLW  
WMAL WREN WSYR WTMJ

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

## R — Album of Familiar Music

CFRC CRCT KDYL KFI KGO  
KGW KHQ KOA KOMO KPCO KSD  
KSTP KVOO WBEN WCAE WCHS  
WDAF WEA F WEEL WEA F WFR  
WFI WFLA WGY WHO WIOD WIS  
WJAR WJAX WJDX WKY WMAQ  
WMC WOAI WOC WOW WPTF  
WRC WRVA WSAI WSB WSM  
WSMB WTAG WTAM WTMJ WWJ  
WWNC

## B — Walter Winchell

KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WENR WGAR  
WHAM WJR WJZ WLW WMAL  
WREN WSYR

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

## B — Adventures of Sherlock Holmes

KDKA KOIL KSO KWCR WBAL  
WBZ WBZA WCKY WENR WFIL  
WGR WHAM WJR WJZ WMAL  
WREN WSYR

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

## R — The Gibson Family

KDYL KFI KFYR KGW KHQ KOA  
KOMO KPO KSTP KYW WBEN  
WCAE WCHS WDAF WDAY WEA F  
WEBC WFRB WGY WHO WIBA  
WLW WMAQ WOW WRC WTAG  
WTAM WTIC WTMJ WWJ

## C — Wayne King, See Monday

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

## C — William A. Brady

CKAC CKLW KFH KGKO KHJ  
KLRA KLZ KMBC KOH KRLD  
KSCJ KTRH KTSB KFOR KWKB  
WABC WACO WADC WALA WBIG  
WBNS WBT WCAO WCAU WCCO  
WDAE WDBJ WDBO WDNB WDOB  
WDRG WDSU WEAN WFBL WFBM  
WFEA WGLC WGR WHEC WHP  
WIBX WICC WISN WJAS WJSV  
WKRC WLAC WLWB WLWZ WMAS  
WMBD WMBR WMT WNAX WNOX  
WOKO WORC WPG WQAM WREC  
WSBT WSFA WSJS WSPD WTOC

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

## C — Dance Orchestra

CFRB CKAC CKLW KFH KGKO  
KLRA KLZ KOH KRLD KSCJ  
KTRH KTSB KFOR KWKB WABC  
WACO WADC WBMM WBNS WBT  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDNB WDOB WDRG WDSU  
WEAN WFBL WFEA WGLC WGR  
WHEC WHK WHP WJBW WISN  
WJAS WJSV WKRC WLAC WLWB  
WLWZ WMAS WMBD WMBR WMT  
WNAC WNAX WNOX WOKO WORC  
WPG WQAM WREC WSBT WSFA  
WSJS WSPD WTOC

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

## B — Walter Winchell

KDYL KFI KFSD KGLH KGRG  
KGW KHQ KOA KOMO KPO KPCO  
KTAR KTBS KTHS WAPI WAVE  
WBAP WJDX WKY WMC WOAI  
WSB WSM WSBM

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

## B — Jack Benny; Don Bestor

KDYL KFSD KGRG KGU KHQ  
KOA KOMO KTAR

# CLASSIFIED INDEX TO CHAIN PROGRAMS

*Time in Eastern Daylight Saving*

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

Ford Concert, 9:00 p.m. Sunday, C  
General Motors Symphony, 8:00 p.m. Sunday, B  
Andre Kostelanetz, 9:00 p.m. Mon., Wed. and Sat., C  
N. Y. Philharmonic, 3:00 p.m. Sunday, C  
Radio City Music Hall, 12:30 p.m. Sunday, B

## DANCE BANDS

Victor Arden, 8:30 p.m. Wednesday; 7:30 p.m. Sat., C  
Leon Belasco, 9:30 p.m. Friday, B  
Ben Bernie, 9:00 p.m. Tuesday, R  
Don Bestor, 7:00 and 11:30 p.m. Sunday, B  
Frank Black, 10:30 p.m. Fri., R  
Jolly Cobura, 4:00 p.m. Sunday, B  
Eddie Duchin, 9:30 p.m. Tuesday, R  
Lud Gluskin, 9:30 p.m. Monday, C  
Al Goodman, 9:30 p.m. Monday, R; 8:00 p.m. Sunday, C  
Glen Gray, 10:00 p.m. Tuesday; 9:00 and 11:30 p.m. Thursday; 11:15 p.m. Mon., C  
Ferde Grofe, 9:30 p.m. Wednesday, C  
Lennie Hayton, 9:00 and 12:00 p.m. Wednesday; 8:00 p.m. Sat., R  
Horace Heidt, 10:30 p.m. Tues. and Thurs., C  
Richard Himber, 8:00 p.m. Monday, R; 9:30 and 11:00 p.m. Saturday, C  
Hal Kemp, 8:00 p.m. Wednesday, B  
Wayne King, 8:30 p.m. Tues. and Wed., R; 10:00 p.m. Sunday and Monday, C  
Let's Dance, 10:30 p.m. Saturday, R  
Guy Lombardo, 10:00 p.m. Wednesday, R  
Abe Lyman, 9:00 p.m. Friday, R; 8:30 p.m. Tuesday, C  
Ozzie Nelson, 7:30 p.m. Sunday, B  
Red Nichols, 8:30 p.m. Friday, B  
Ray Noble, 10:30 p.m. Wednesday; 9:00 p.m. Sat., R  
Charles Previn, 9:00 p.m. Sunday, B  
Leo Reisman, 8:00 and 11:30 p.m. Tuesday, R  
Harry Reser, 4:30 p.m. Sunday, R  
Freddie Rich, 10:00 p.m. Wednesday; 7:00 p.m. Sun., C  
B. A. Rolfe, 10:00 and 11:30 p.m. Friday, B  
Phil Spitalny, 9:30 p.m. Tuesday, C  
Leith Stevens, 8:30 p.m. Thursday, C  
Rudy Vallee, 8:00 p.m. Thursday, R  
Fred Waring, 9:30 p.m. Thursday, C  
Paul Whitman, 10:00 p.m. Thursday, R

## DIALOG

Fred Allen, 9:00 and 12:00 p.m. Wednesday, R  
Amos 'n' Andy, 7:00 and 11:00 p.m. dally, except Sat. and Sun., B  
Phil Baker, 9:30 p.m. Friday, B  
Jack Benny, 7:00 and 11:30 p.m. Sunday, B  
Block and Sully, 9:30 p.m. Monday, C  
Joe Cook, 10:00 and 11:30 p.m. Friday, B  
Easy Aces, 7:30 p.m. Mon., Tues. and Wed., R  
George and Grace, 9:30 p.m. Wednesday, C  
Lou Holtz, 10:00 p.m. Thursday, R  
Beatrice Lillie, 9:00 p.m. Friday, B  
Walter O'Keefe, 10:00 p.m. Tuesday; 9:00 and 11:30 p.m. Thursday, C  
Jack Pearl, 10:00 p.m. Wednesday, C  
Joe Penner, 7:30 p.m. Sunday, B  
Ray Perkins, 6:00 p.m. Sunday, C  
Pick and Pat, 9:30 p.m. Friday, R  
Stoopnagle and Budd, 10:30 p.m. Friday, C  
Uncle Ezra, 7:45 p.m. Mon., Wed., Fri., R  
Ed Wynn, 9:30 p.m. Tuesday, R

## DRAMA

Brack Chamber, 7:15 p.m. Mon., Wed. and Fri., R  
William A. Brady, 10:30 p.m. Sunday, C

Dangerous Paradise, 7:45 p.m. Mon., Wed. and Fri., B  
Red Davis, 7:30 p.m. Mon., Wed., and Fri., B  
Death Valley Days, 9:00 p.m. Thursday, B  
Dream Drama, 4:45 p.m. Sunday, R  
Eno Crime Clues, 8:00 p.m. Tuesday, B  
First Nighter, 10:00 p.m. Friday, R  
Grand Hotel, 6:30 p.m. Sunday, B  
Sherlock Holmes, 9:45 p.m. Sunday, B  
House of Glass, 8:30 p.m. Wednesday, B  
Warden Lawes, 9:00 p.m. Wednesday, B  
Lux Program, 2:30 p.m. Sunday, B  
Myrt and Marge, 7:00 and 11:00 p.m. dally, except Sat. and Sun., C  
One Man's Family, 8:00 p.m. Wednesday, R  
The O'Neills, 7:30 p.m., Mon., Wed., Fri., C  
Princess Pat Players, 9:30 p.m. Monday, B  
Red Trails, 9:00 p.m. Tuesday, B  
Irene Rich, 8:00 p.m. Friday, B  
Buck Rogers, 6:00 and 7:30 p.m. Mon. to Thurs., Inc., C  
Roses and Drums, 5:00 p.m. Sunday, B  
Sally of the Talkies, 3:00 p.m. Sunday, R  
Soconyland Sketches, 7:00 p.m. Saturday, C  
True Story Court, 8:30 p.m. Friday, C  
Welcome Valley, 8:30 p.m. Tuesday, B

## POPULAR PROGRAMS

A & P Gypsies, 9:00 p.m. Monday, R  
Album Familiar Music, 9:30 p.m. Sunday, R  
American Radiator Musical, 7:30 p.m. Sunday, R  
Miss Bab-o's Surprise, 1:30 p.m. Sunday, R  
Major Bowes, 11:30 a.m. Sunday; 8:00 p.m. Sunday, R  
California Melodies, 10:30 p.m. Saturday, C  
Carefree Carnival, 2:30 p.m. Sunday, R  
Chesterfield Program, 9:00 p.m. Mon., Wed. and Sat., C  
Cities Service Concert, 8:00 p.m. Friday, R  
Contented Program, 10:00 p.m. Monday, R  
Fleischmann Variety, 8:00 p.m. Thursday, R  
Gibson Family Musical, 10:00 p.m. Sunday, R  
Gulf Headliners, 8:30 p.m. Sunday, C  
Otto Harbach Musical Show, 9:30 p.m. Monday, R  
Hollywood Hotel, 9:30 p.m. Friday, C  
Lilac Time, 10:30 p.m. Monday, C  
Lucky Strike, 8:00 p.m. Saturday, R  
Manhattan Merry-Go-Round, 9:00 p.m. Sunday, R  
March of Time, 9:00 p.m. Friday, C  
Maxwell House Show Boat, 9:00 p.m. Thursday, R  
Mexican Musical Tours, 9:30 p.m. Thursday, B  
Molle Minstrels, 7:30 p.m. Thursday, R  
National Amateur Night, 6:00 p.m. Sunday, C  
National Barn Dance, 9:30 and 11:00 p.m. Saturday, B  
Palmolive Beauty Box, 10:00 p.m. Tuesday, R  
Penthouse Serenade, 3:30 p.m. Sunday, R  
Rhythm Symphony, 4:00 p.m. Sunday, R  
Roadways of Romance, 7:00 p.m. Sunday, C  
Roxy and His Gang, 8:00 p.m. Saturday, C  
Sentina's Serenade, 5:00 p.m. Sunday, R  
Sinclair Minstrels, 9:00 p.m. Monday, B  
Voice of Firestone, 8:30 and 11:30 p.m. Monday, R  
Tony Wons, 5:30 p.m. Sunday, R

## SINGERS

Lois Bennett, 10:00 p.m. Sunday, R  
Richard Bonelli, 9:00 p.m. Saturday, C  
Lucrezia Bori, 9:00 p.m. Monday, C  
Bernice Claire, 8:00 p.m. Tues., C; 9:00 p.m. Friday, R  
Norman Cordon, 10:30 p.m. Wednesday, C  
Bing Crosby, 9:00 p.m. Tuesday, C  
Morton Downey, 8:15 p.m. Friday, B  
Jessica Dragonette, 8:00 p.m. Friday, R  
Mary Eastman, 1:30 p.m. Sunday, C

Ruth Etting, 8:30 p.m. Friday, B  
 Foursome, 8:00 p.m. Wednesday, C  
 Wendell Hall, 7:45 and 11:00 p.m. Sunday, R  
 Annette Hanshaw, 10:00 p.m. Tuesday; 9:00 and 11:30 p.m. Thurs., C  
 Jackie Heller, 10:00 p.m. Monday, B  
 Helen Jepson, 10:00 p.m. Thursday, R  
 Al Jolson, 9:30 p.m. Saturday, R  
 Lazy Dan, 2:00 p.m. Sunday, C  
 Elizabeth Lennox, 8:30 p.m. Wednesday, C  
 Everett Marshall, 8:30 p.m. Wednesday, C  
 Maxine, 9:30 p.m. Tuesday, C  
 Ethel Merman, 8:00 p.m. Sunday, C  
 Frank Munn, 9:30 p.m. Sunday; 9:00 p.m. Friday, R; 8:00 p.m. Tuesday, C  
 Joey Nash, 8:00 p.m. Mon., R; 9:30 and 11:00 p.m. Sat., C  
 Gertrude Niesen, 9:30 p.m. Monday, C  
 Frank Parker, 9:00 p.m. Monday, R; 7:00 and 11:30 p.m. Sunday, B  
 Lily Pons, 9:00 p.m. Wednesday, C  
 Lanny Ross, 9:00 p.m. Thursday, R  
 Sanderson-Crumit, 5:30 p.m. Sunday, C  
 Mme. Schumann-Heink, 5:00 p.m. Sunday, R  
 Vivienne Segal, 8:30 p.m. Tuesday, C; 9:30 p.m. Sunday, R

Mary Small, 1:30 p.m. Sunday, R  
 Smilin' Ed McConnell, 6:30 p.m. Sunday, C  
 Kate Smith, 8:30 and 11:30 p.m. Monday, C  
 Gladys Swarthout, 8:30 and 11:30 p.m. Monday; 10:00 p.m. Tuesday, R  
 Conrad Thibault, 9:00 p.m. Thurs.; 10:00 p.m. Sun., R  
 John Charles Thomas, 9:30 p.m. Wednesday, B  
 Benay Venuta, 8:45 p.m. Saturday, C

#### TALKS

Becker's Dog Chats, 5:45 p.m. Sunday, B  
 Boake Carter, 7:45 p.m. daily, except Sat. and Sun., C  
 Cook Travelogues, 5:30 p.m. Sunday, B  
 Rev. Charles E. Coughlin, 4:00 p.m. Sunday  
 Jimmy Fidler, 10:00 p.m. Wednesday, B  
 Floyd Gibbons, 7:30 p.m. Thursday, B  
 Edwin C. Hill, 8:15 and 11:15 p.m. Mon., Wed., Fri., C  
 H. V. Kaltenborn, 6:30 p.m. Friday, C  
 Mrs. Franklin D. Roosevelt, 8:00 p.m. Friday, C  
 Lowell Thomas, 6:45 p.m. daily, except Sat. and Sun., B  
 Voice of Crusaders, 10:45 p.m. Tues. and Thurs., C  
 Voice of Experience, 6:45 p.m. Sunday; 11:30 p.m. Wednesday, C  
 Frederic William Wile, 6:00 p.m. Saturday, C  
 Walter Winchell, 9:30 and 11:15 p.m. Sunday, B

Jack Monroe Clemens, known to radio fans as Bobby, of "The Gibson Family" has been in the show business since his early days . . . born in Cleveland 26 years ago . . . says he is Mark Twain's fourth cousin . . . first radio audition on WHK in his teens . . . left school after eighth grade to contribute to family's support . . . first time in "big time" vaudeville at age of 15 . . . greatest thrills—acting on NBC and his first plane ride to Cleveland . . . likes gardenias, steaks, movies, shopping for clothes, riding bicycles and dreaming.

Freddie Rich is one of thirteen children. Six brothers are musicians and his six sisters aren't musical in the least. David Ross, who is the smallest member of "Club Romance," owns the biggest voice. Even petite Lois Bennett, the soprano, is taller than Ross.

\* \* \*

Don Bestor's eight-year-old daughter, Mary Ann, will again be featured in the Metropolitan Opera this season. She will be the youngest member of the company, playing juvenile parts.

## KEY TO SYMBOLS

As Shown in the Index by  
 Frequencies and Dial Numbers

Frequency is given in kilocycles; wavelength 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.

#### Second Column Symbols

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

#### Fourth Column Symbols

- A American Broadcasting System.

- B National "Blue" network.
- C Columbia network.
- D Day time only.
- Dn Day time with occasional evening hours.
- F Canadian Radio Brdstg. Commission.
- N National "Red" and "Blue" networks.
- P Has construction permit only.
- R National "Red" network.
- S Sunday only.
- Sy Synchronized.
- X Has permit to increase power.
- Y Has permit to change location.
- Z Has permit to change frequency.
- a-b-c. Small letters show stations using same transmitter.
- 1-2-3. Figures denote stations sharing time.
- ..... No information.

INDEX BY FREQUENCIES

540 kilocycles 555.2 meters

CJRM ak 1000 F Moose Jaw, Sask.

550 kilocycles 545.1 meters

CFNB ak 1000 F Fredericton, N. B.  
 KFYO ae 500 2 (1) St. Louis, Mo.  
 KFYR ae 1000 N (5) Bismarck, N. D.  
 KOAC ak 1000 Corvallis, Ore.  
 KSD ak 1000 2R (5) St. Louis, Mo.  
 KTSA ak 1000 C (5) San Antonio, Texas  
 TISO ak 250 ..... San Jose, C. R.  
 WDEV ae 500 D Waterbury, Vt.  
 WGR ae 1000 C Buffalo, N. Y.  
 WKRC ak 1000 C (2.5) Cincinnati, Ohio  
 WSWA z 500 DP Staunton, Va.

560 kilocycles 535.4 meters

KFDM ak 500 (1) Beaumont, Texas  
 KLZ ae 1000 C (2.5) Denver, Colo.  
 KTAB ak 1000 ..... San Francisco, Calif.  
 KWTO ak 1000 D Springfield, Mo.  
 TGW ae 10000 565 Guatemala City  
 WFIL ae 1000 B Philadelphia, Pa.  
 WIND ak 1000 (2.5) Gary, Ind.  
 WNOX ak 1000 C (2) Knoxville, Tenn.  
 WQAM ae 1000 C Miami, Fla.  
 XEAO ak 250 (.15) Mexicali, B. C.

570 kilocycles 526.0 meters

KGKO ak 500 C (1) Wichita Falls, Texas  
 KMTR ak 500 ..... Hollywood, Calif.  
 KVI ak 1000 ..... Tacoma, Wash.  
 WKBN ae 500 1C Youngstown, Ohio  
 WMCA ak 500 A New York, N. Y.  
 WNAX ak 1000 C (5) Yankton, S. D.  
 WOSU ak 750 1 (1) Columbus, Ohio  
 WSYR ak 250 B Syracuse, N. Y.  
 WWNC ae 1000 N Asheville, N. C.

580 kilocycles 516.9 meters

CHRC ak 100 F Quebec, Que.  
 CKCL ae 100 F Toronto, Ont.  
 CKUA ak 500 ..... Edmonton, Alta.  
 KMJ ak 1000 C Fresno, Calif.  
 KSAC ak 500 2 (1) Manhattan, Kans.  
 WCHS ak 500 (1) Charleston, W. Va.  
 WDBO ae 1000 C Orlando, Fla.  
 WIBW ak 1000 C2 (5) Topeka, Kans.  
 WILL ak 1000 ..... Urbana, Ill.  
 WTAG ae 500 R (1) Worcester, Mass.

590 kilocycles 508.2 meters

KHQ ak 1000 N (2.5) Spokane, Wash.  
 WEEL ak 1000 R Boston, Mass.  
 WKZO ae 1000 D Kalamazoo, Mich.  
 WOW ae 1000 R (5) Omaha, Neb.  
 XEPN ak 50000 ..... PiedrasNegras, Coah.

600 kilocycles 499.7 meters

CPCF ae 400 ..... Montreal, Que.  
 CJOR ak 500 ..... Vancouver, B. C.  
 CMW ak 100 ..... Havana, Cuba  
 CRCW z 1000 F Windsor, Ont.  
 FQN z 250 609 St. Pierre, Miquelon  
 KFSD ae 1000 N San Diego, Calif.  
 WCAC ak 500 2 Storrs, Conn.  
 WCAO ae 500 C (1) Baltimore, Md.  
 WICC ae 500 2 C (1) Bridgeport, Conn.

WMT af 1000 B (2.5) Cedar Rapids, Iowa  
 WREC ak 1000 C (2.5) Memphis, Tenn.

610 kilocycles 491.5 meters

KFRC ak 1000 C (5) San Francisco, Calif.  
 KINY z 250 P Juneau, Alaska  
 WDAF ak 1000 R (5) Kansas City, Mo.  
 WIP ae 500 A (1) Philadelphia, Pa.  
 WJAY ae 500 Cleveland, Ohio  
 XFX ak 500 ..... Mexico City, D. F.

620 kilocycles 483.6 meters

KGW ak 1000 N (5) Portland, Ore.  
 KTAR ae 1000 N Phoenix, Ariz.  
 WFLA ae 1000 Na Clearwater, Fla.  
 WHJB ak 250 (.5) Greensburg, Pa.  
 WLZ ak 500 C (1) Bangor, Maine  
 WSUN ae 1000 Na (1) St. Petersburg, Fla.  
 WTMJ ae 1000 N (5) Milwaukee, Wis.

630 kilocycles 475.9 meters

CFCY ae 1000 F Char'tw'n, P.E.I.  
 CJGX ak 500 F Yorkton, Sask.  
 CKOV ak 100 F Kelowna, B. C.  
 KFRU ak 500 1 (1) Columbia, Mo.  
 KGFX ak 200 D Pierre, S. D.  
 WGBF ae 500 1 Evanville, Ind.  
 WMAL ak 250 B (5) Washington, D. C.  
 WOS ak 500 1D Jefferson City, Mo.  
 WPRO ak 250 A Providence, R. I.  
 XEZ z 500 ..... Merida, Yuc.

640 kilocycles 468.5 meters

CMBY z 125 ..... Havana, Cuba  
 KFI ak 50000 N Los Angeles, Calif.  
 WAIU ae 500 ..... Columbus, Ohio  
 WOI ae 5000 D Ames, Iowa  
 XEOX ak 250 ..... Saltillo, Coah.

650 kilocycles 461.3 meters

WSM ae 50000 N Nashville, Tenn.

660 kilocycles 454.3 meters

CMCX z 250 ..... Havana, Cuba  
 WAAW ak 500 D Omaha, Neb.  
 WFAF ak 50000 R New York, N. Y.

670 kilocycles 447.5 meters

WMAQ ck 50000 N Chicago, Ill.

680 kilocycles 440.9 meters

CMCO z 250 ..... Havana, Cuba  
 KFEQ ae 2500 D St. Joseph, Mo.  
 KPO ak 50000 N San Francisco, Calif.  
 RDN z 500 ..... San Salvador, E. S.  
 VAS ak 2000 685 Glace Bay, N. S.  
 VOWR ck 500 681 St. John's, Nfld.  
 WPTF ae 1000 DnN (5) Raleigh, N. C.

690 kilocycles 434.5 meters

CFRB ae 10000 C Toronto, Ont.  
 CJCJ ak 100 F Calgary, Alta.  
 NAA ak 1000 ..... Arlington, Va.  
 XET ck 500 ..... Monterrey, N. L.

700 kilocycles 428.3 meters

WLW ak 500000 N Cincinnati, Ohio



INDEX BY FREQUENCIES

710 kilocycles 422.3 meters

KMPC ae 500 Beverly Hills, Calif.  
 KPCB ae 250 Seattle, Wash.  
 TIFB z 30 714 San Jose, C. R.  
 WOR ak 5000 X Newark, N. J.  
 XEN ak 1000 711 Mexico City, D. F.

720 kilocycles 416.4 meters

WGN ck 5000 Chicago, Ill.

730 kilocycles 410.7 meters

CFPL ak 100 F London, Ont.  
 CJCA ah 1000 F Edmonton, Alta.  
 CKAC ak 5000 C Montreal, Que.  
 CMAF ak 250 Havana, Cuba  
 XEBC ak 5000 Agua Caliente, L. C.

740 kilocycles 405.2 meters

KMMJ ae 1000 D Clay Center, Neb.  
 KTRB ak 250 D Modesto, Calif.  
 WHEB ak 250 D Portsmouth, N. H.  
 WSB ah 5000 N Atlanta, Ga.  
 XELC z 100 Mexico City, D. F.

750 kilocycles 399.8 meters

CMCW dk 117 Havana, Cuba  
 KGU aj 2500 N Honolulu, T. H.  
 WJR ak 1000 B Detroit, Mich.

760 kilocycles 394.5 meters

CMJK ak 150 Camaguey, Cuba  
 KXA ae 250 (5) Seattle, Wash.  
 WBAL ae 10000 BSy Baltimore, Md.  
 WEW ae 1000 D St. Louis, Mo.  
 WJZ ck 50000 BSy New York, N. Y.  
 XEOK z 2500 765 Tijuana, L. C.

770 kilocycles 389.4 meters

CMBS ak 130 Havana, Cuba  
 KFAB ae 10000 CSy Lincoln, Neb.  
 WBBM ae 50000 CSy Chicago, Ill.

780 kilocycles 384.4 meters

CHWK ak 100 F Chhillwack, B. C.  
 CKSO z 1000 F Sudbury, Ont.  
 KELW ae 500 2 Burbank, Calif.  
 KFDY ae 1000 D Brookings, S. D.  
 KFQD ck 250 Anchorage, Alaska  
 KGHL ak 1000 N (2.5) Billings, Mont.  
 KTM ak 500 2 (1) Los Angeles, Calif.  
 WEAN ae 500 C (2.5) Providence, R. I.  
 WMC aj 1000 N (2.5) Memphis, Tenn.  
 WTAR ae 500 N (1) Norfolk, Va.  
 XEYZ z 10000 Mexico City, D. F.

790 kilocycles 379.5 meters

CMOA z 72 Havana, Cuba  
 KGO ak 7500 N San Francisco, Calif.  
 WGY ak 5000 R Schenectady, N. Y.

800 kilocycles 374.8 meters

TIGP z 75 San Jose, C. R.  
 WBAP ak 5000 Na Fort Worth, Tex.  
 WFAA ak 5000 Na Dallas, Tex.  
 WTBO ae 250 D Cumberland, Md.

810 kilocycles 370.2 meters

CMCF ak 250 815 Havana, Cuba  
 CMHW z 100 Cienfuegos, Cuba  
 WCCO ak 5000 C Minneapolis, Minn.  
 WNYC ak 1000 N New York, N. Y.  
 XFC z 350 Aguascalientes, Ags

820 kilocycles 365.6 meters

WHAS aj 5000 C Louisville, Ky.  
 XETW dk 500 Mexico City, D. F.

830 kilocycles 361.2 meters

CMC ae 500 835 Havana, Cuba  
 KOA ak 5000 N Denver, Colo.  
 TIVL z 30 835 San Jose, C. R.  
 WEEU ak 1000 D Reading, Pa.  
 WHDH ae 1000 Dn A Boston, Mass.  
 WRUF ae 5000 Dn Gainesville, Fla.

840 kilocycles 356.9 meters

CFQC ak 1000 F Saskatoon, Sask.  
 CMQ z 500 Havana, Cuba  
 CRCT ak 5000 F Toronto, Ont.  
 VOGY ak 400 St. John's, Nfld.  
 XEP z 500 Mexico City, D. F.  
 XEXX z 500 845 Mexico City, D. F.

850 kilocycles 352.7 meters

KIEV aj 250 D Glendale, Calif.  
 WESG ak 1000 Elmira, N. Y.  
 WWL ae 10000 New Orleans, La.  
 WWPA z 250 DP Clarion, Pa.

860 kilocycles 348.6 meters

WABC ae 5000 C New York, N. Y.  
 WHB ae 1000 D Kansas City, Mo.  
 XEMO ak 2500 865 Tijuana, B. C.

870 kilocycles 344.6 meters

WENR ak 5000 Na Chicago, Ill.  
 WLS ae 5000 Na Chicago, Ill.

880 kilocycles 340.7 meters

CFJC ak 100 F Kamloops, B. C.  
 CRCO ak 1000 F Ottawa, Ont.  
 KFKA ak 500 2 (1) Greeley, Colo.  
 KLX ae 1000 Oakland, Calif.  
 KPOF ak 500 2 Denver, Colo.  
 WCOC ae 500 (1) Meridian, Miss.  
 WGBI ae 500 1 Scranton, Pa.  
 WPHR z 500 D Petersburg, Va.  
 WQAN ae 250 1 Scranton, Pa.  
 WSUI ae 500 (1) Iowa City, Iowa

890 kilocycles 336.9 meters

CJIC z 100 D S. Ste. Marie, Ont.  
 KARK ak 250 (5) Little Rock, Ark.  
 KPNF ak 500 2 (1) Shenandoah, Iowa  
 KSEI ck 250 (5) Pocatello, Idaho  
 KUSD ae 500 2 Vermillion, S. D.  
 WBAA ak 1000 D W. Lafayette, Ind.  
 WGST aeh 250 C (1) Atlanta, Ga.  
 WJAR ae 500 R Providence, R. I.  
 WMMN ae 250 (5) Fairmont, W. Va.  
 XEW ak 5000 Mexico City, D. F.

INDEX BY FREQUENCIES

900 kilocycles 333.1 meters

KGBU	ak	500	.....	Ketchikan, Alaska
KHJ	ae	1000	C (5)	Los Angeles, Calif.
WBEN	ae	1000	R	Buffalo, N. Y.
WFMD	z	500	DP	Frederick, Md.
WJAX	ae	1000	N	Jacksonville, Fla.
WKY	ae	1000	N	Oklahoma City, Ok.
WLBL	ak	2500	D	Stevens Point, Wis.
WMFI	z	500	DP	New Haven, Conn.
WTAD	ak	500	D	Quincy, Ill.

910 kilocycles 329.6 meters

CJAT	ak	250	F	Trail, B. C.
CRCM	ak	5000	F	Montreal, Que.
TIGR	z	75	911	San Jose, C. R.
XENT	ck	60000	.....	Nuevo Laredo, Tams.

920 kilocycles 325.9 meters

CMX	ae	650	.....	Havana, Cuba
HHK	ae	1000	.....	Port-au-Prince, Haiti
KFEL	ak	500	2	Denver, Colo.
KOMO	ak	1000	N	Seattle, Wash.
KPRC	ak	1000	N (5)	Houston, Texas
KVOD	ak	500	2	Denver, Colo.
WAAF	ak	500	D	Chicago, Ill.
WBSO	ae	500	D	Babson Park, Mass.
WFEN	ak	250	(.5) 1	Philadelphia, Pa.
WRAX	ak	250	D (.5)	Philadelphia, Pa.
WSPA	ae	1000	D	Spartanburg, S. C.
WWJ	ak	1000	R	Detroit, Mich.
XEAA	z	200	.....	Mexicali, B. C.
XEFE	z	250	.....	Nuevo Laredo, Tams.

930 kilocycles 322.4 meters

CFAC	ak	100	F	Calgary, Alta.
CFCH	ak	100	F	North Bay, Ont.
CFLC	ae	100	.....	Prescott, Ont.
CHNS	ae	1000	F	Halifax, N. S.
CKPC	ae	100	F	Brantford, Ont.
CKPR	ak	100	F	Fort William, Ont.
KGBZ	ak	1000	2 (2.5)	York, Neb.
KMA	ak	1000	2 (2.5)	Shenandoah, Iowa
KROW	ak	500	(1)	Oakland, Calif.
WBRC	ak	1000	C	Birmingham, Ala.
WDBJ	ae	1000	C	Roanoke, Va.

940 kilocycles 319.0 meters

CMBC	de	195	.....	Havana, Cuba
CMKM	z	100	.....	Manzanillo, Cuba
KOIN	ak	1000	C (5)	Portland, Ore.
VOAS	ak	100	.....	St. John's, Nfld.
WAAT	ae	500	D	Jersey City, N. J.
WAVE	ae	1000	N	Louisville, Ky.
WGSB	ae	1000	R (2.5)	Portland, Maine
WDAY	ae	1000	N (5)	Fargo, N. D.
WHA	ak	2500	D	Madison, Wis.
XEFO	ak	5000	.....	Mexico City, D. F.

950 kilocycles 315.6 meters

CRCS	ak	100	F	Chicoutimi, Que.
KFWB	ak	1000	(2.5)	Hollywood, Calif.
KHSL	z	250	DP(5)	Chico, Calif.
KMBC	ae	1000	C	Kansas City, Mo.
VONF	ak	5000	.....	St. John's, Nfld.
WRC	ae	500	R (1)	Washington, D. C.

960 kilocycles 312.3 meters

CKY	ak	15000	F	Winnipeg, Man.
CMCD	ah	180	.....	Havana, Cuba
CMJL	z	50	.....	Camaguey, Cuba
XEAM	z	50	.....	Nuevo Laredo, Tams.
XEAW	ak	10000	.....	Reynosa, Tams.

970 kilocycles 309.1 meters

KJR	z	5000	N	Seattle, Wash.
WCFL	ae	1500	B	Chicago, Ill.
WIBG	ak	100	D	Glenside, Pa.

980 kilocycles 303.9 meters

KDKA	bk	50000	B	Pittsburgh, Pa.
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990 kilocycles 302.8 meters

WBZ	ak	50000	BSy	Boston, Mass.
WBZA	ak	1000	BSy	Springfield, Mass.
XEK	ak	100	.....	Mexico City, D. F.
XES	dk	250	.....	Tampico, Tams.

1000 kilocycles 299.8 meters

CMBZ	ak	120	.....	Havana, Cuba
KFVD	ak	250	Dn	Los Angeles, Calif.
WHO	ak	50000	R	Des Moines, Iowa

1010 kilocycles 296.9 meters

GHML	ael	50	F	Hamilton, Ont.
CHWC	ak	500	3F	Regina, Sask.
CKCD	ak	100	.....	Vancouver, B. C.
CKCK	ak	500	3F	Regina, Sask.
CKCO	z	100	.....	Ottawa, Ont.
CKIC	ak	50	.....	Wolfville, N. S.
CKWX	ak	100	F	Vancouver, B. C.
CMJG	z	50	.....	Camaguey, Cuba
KGGF	ak	1000	2	Coffeyville, Kans.
KOW	ae	1000	.....	San Jose, Calif.
TIGA	z	30	1014	Cartago, C. R.
WHN	ae	1000	.....	New York, N. Y.
WIS	ae	1000	N (2.5)	Columbia, S. C.
WNAD	ae	1000	2 (1)	Norman, Okla.
XEAF	z	250	.....	Nogales, Sonora
XEU	ak	250	.....	Veracruz, Ver.

1020 kilocycles 293.9 meters

KYW	ak	10000	R	Philadelphia, Pa.
XEJ	ak	1250	.....	Juarez, Chih.

1030 kilocycles 291.1 meters

CFCN	ak	10000	F	Calgary, Alta.
CKLW	ae	5000	C	Windsor, Ont.
CMCY	ak	1000	.....	Havana, Cuba
XEB	ak	10000	.....	Mexico City, D. F.

1040 kilocycles 288.3 meters

CMGH	ak	15	.....	Matanzas, Cuba
KRLD	ae	10000	C	Dallas, Texas
KWJJ	ak	500	.....	Portland, Ore.
WKAR	ak	1000	D	East Lansing, Mich.
WTIC	ak	50000	R	Hartford, Conn.

1050 kilocycles 285.5 meters

CFCO	ak	100	F	Chatham, Ont.
CRCK	z	1000	F	Quebec, Que.
KFBI	ak	5000	Dn	Ablene, Kans.
KNX	ak	50000	.....	Hollywood, Calif.

1060 kilocycles 282.8 meters

CMK	ae	1500	.....	Havana, Cuba
KTHS	ae	10000	N	Hot Springs, Ark.
VOAC	z	40	1065	St. John's, Nfld.
WBAL	ae	10000	B	Baltimore, Md.
WJAG	ak	1000	D	Norfolk, Neb.
XEA	ak	125	.....	Guadalajara, Jal.

## INDEX BY FREQUENCIES

### 1070 kilocycles

CMHA z 50 .....  
 KJBS ak 500 Dn  
 WCAZ dk 100 D  
 WDZ ak 100 D  
 WTAM ck 50000 R

### 1080 kilocycles

WBT ae 50000 C  
 WCBD ak 5000 1Dny  
 WMBI ae 5000 1Dn  
 XEMA z 50 .....

### 1090 kilocycles

KMOX ak 50000 C

### 1100 kilocycles

CRCV ak 1000 F  
 KGDV ak 1000 D  
 KWKH ae 10000 C  
 TIRCA ak 500 .....  
 WLWL ae 5000 i  
 WPG ak 5000 1C  
 XEFG ak 250 1105

### 1110 kilocycles

CMCO z 150 .....  
 KSOO ak 2500 Dn  
 WRVA ae 5000 N  
 XELO z 10000 .....

### 1120 kilocycles

CHLP z 100 .....  
 CHSJ ae 100 F  
 CKOC ae 500 F (1)  
 CKX ak 100 F  
 CMGF ak 100 .....  
 KFIO ak 100 D  
 KFSG ag 1000 a  
 KRKD ae 1000 a (2.5)  
 KRSC ck 100 D  
 WDEL ak 250 (.5)  
 WISN ak 250 (1)  
 WMFH z 500 DP  
 WTAW ae 500 .....

### 1130 kilocycles

CMJI ak 45 .....  
 KSL ak 50000 C  
 WJJD ak 20000 Dn  
 WOV ag 1000 D

### 1140 kilocycles

CMBG z 325 .....  
 KVOO ak 25000 1N  
 WAPI ae 5000 1N

### 1150 kilocycles

CMJF z 200 .....  
 WHAM ak 50000 B  
 XEH ak 250 .....  
 XEWZ z 100 .....

### 1160 kilocycles

WOWO ae 10000 1C

### 280.2 meters

Sagua la Grande, C.  
 San Francisco, Calif.  
 Carthage, Ill.  
 Tuscola, Ill.  
 Cleveland, Ohio

### 277.6 meters

Charlotte, N. C.  
 Waukegan, Ill.  
 Chicago, Ill.  
 Tampico, Tama.

### 275.1 meters

St. Louis, Mo.

### 272.6 meters

Vancouver, B. C.  
 Stockton, Calif.  
 Shreveport, La.  
 San Jose, C. R.  
 New York, N. Y.  
 Atlantic City, N. J.  
 Mexico City, D. F.

### 270.1 meters

Havana, Cuba  
 Sioux Falls, S. D.  
 Richmond, Va.  
 Piedras Negras, Co.

### 267.7 meters

Montreal, Que.  
 St. John, N. B.  
 Hamilton, Ont.  
 Brandon, Man.  
 Matanzas, Cuba  
 Spokane, Wash.  
 Los Angeles, Calif.  
 Los Angeles, Calif.  
 Seattle, Wash.  
 Wilmington, Del.  
 Milwaukee, Wis.  
 Boston, Mass.  
 College Station, Tex.

### 265.3 meters

Ciego de Avila, Cuba  
 Salt Lake City, Utah  
 Chicago, Ill.  
 New York, N. Y.

### 263.0 meters

Havana, Cuba  
 Tulsa, Okla.  
 Birmingham, Ala.

### 260.7 meters

Camaguey, Cuba  
 Rochester, N. Y.  
 Monterrey, N. L.  
 Mexico City, D. F.

### 258.5 meters

Fort Wayne, Ind.

WWVA ak 5000 1C  
 XED ck 500 .....  
 XEFL z 5000 P

### 1170 kilocycles

CMBD z 163 .....  
 WCAU ae 50000 C

### 1180 kilocycles

CMJO ak 50 .....  
 KEX ak 5000 2N  
 KOB ae 10000 2  
 VE9EK ak 10 1185  
 WDGY ak 1000 D (5)  
 WINS ae 1000 .....  
 WMAZ ak 1000 .....  
 XEFA z 500 .....

### 1190 kilocycles

HIJ z 15 1195  
 WATR ak 100 D  
 WOAI ak 50000 N  
 WSAZ ak 1000 .....

### 1200 kilocycles

CHAB ak 100 F  
 CKTB ak 100 F  
 CMGJ ak 500 .....  
 KADA ak 100 D  
 KBTM ak 100 D  
 KFJB ak 100 (.25)  
 KFJD ae 100 (.25)  
 KFJX ak 100 (.25)  
 KGDE ak 100 (.25)  
 KGEK ak 100 .....  
 KGFJ ae 100 .....  
 KGHJ ak 100 (.25)  
 KMLB ak 100 .....  
 KOOS ae 100 (.25)  
 KSUN ck 100 D  
 KVOS ak 100 .....  
 KWG ak 100 C  
 WABI ak 100 .....  
 WAIM z 100 P  
 WBBZ ak 100 .....  
 WBNO ck 100 1  
 WCAT ak 100 D  
 WCAX ak 100 .....  
 WCLO ak 100 .....  
 WFAM ak 100 8  
 WFBE ak 100 (.25)  
 WHBC ak 100 2  
 WHBY ak 100 (.25)  
 WIBX ak 100 (.3) C  
 WIL ak 100 (.25)  
 WJBC ak 100 6  
 WJBL ae 100 6  
 WJBW ak 100 1  
 WKBO ak 100 3 (.25)  
 WKJC ae 100 3 (.25)  
 WLVA ak 100 (.25)  
 WMPC ak 100 .....  
 WRBL ak 100 .....  
 WWAE ae 100 8  
 10-AK ak 15 .....  
 10-BP ak 25 .....

Wheeling, W. Va.  
 Guadaluajara, Jal.  
 Tijuana, B. C.

### 256.3 meters

Havana, Cuba  
 Philadelphia, Pa.

### 254.1 meters

Ciego de Avila, Cuba  
 Portland, Ore.  
 Albuquerque, N. M.  
 Montmagny, Que.  
 Minneapolis, Minn.  
 New York, N. Y.  
 Macon, Ga.  
 Mexico City, D. F.

### 252.0 meters

Santo Domingo, D. R.  
 Waterbury, Conn.  
 San Antonio, Texas.  
 Huntington, W. Va.

### 249.9 meters

Moose Jaw, Sask.  
 St. Catharines, Ont.  
 Havana, Cuba  
 Ada, Okla.  
 Jonesboro, Ark.  
 Marshalltown, Iowa  
 Nampa, Idaho  
 Grand Junction, Col.  
 Fergus Falls, Minn.  
 Sterling, Colo.  
 Los Angeles, Calif.  
 Little Rock, Ark.  
 Monroe, La.  
 Marshfield, Ore.  
 Lowell, Ariz.  
 Bellingham, Wash  
 Stockton, Calif.  
 Bangor, Maine  
 Anderson, S. C.  
 Ponca City, Okla.  
 New Orleans, La.  
 Rapid City, S. D.  
 Burlington, Vt.  
 Janesville, Wis.  
 South Bend, Ind.  
 Cincinnati, Ohio  
 Canton, Ohio  
 Green Bay, Wis.  
 Utica, N. Y.  
 St. Louis, Mo.  
 Bloomington, Ill.  
 Decatur, Ill.  
 New Orleans, La.  
 Harrisburg, Pa.  
 Lancaster, Pa.  
 Lynchburg, Va.  
 Lapeer, Mich.  
 Columbus, Ga.  
 Hammond, Ind.  
 Stratford, Ont.  
 Wingham, Ont.

### 1210 kilocycles

CHNC ak 100 F  
 CJCU z 50 .....  
 CKBI ak 100 F  
 CKCH ak 100 F  
 CKMC ak 50 .....

### 247.8 meters

New Carlisle, Que.  
 Aklavik, N. W. T.  
 Prince Albert, Sask.  
 Hull, Que.  
 Cobalt, Ont.

## INDEX BY FREQUENCIES

<p>CMHI ak 150 .....                      KASA ck 100 .....                      KDLR ak 100 .....                      KFJH ak 100 .....                      KFQR ak 100 .....                      KFVW ak 100 .....                      KFVS ae 100 .....                      KFVW ae 100 .....                      KFVW ae 100 .....                      KGY ak 100 .....                      KIEM ak 100 .....                      KIUL z 100 P                      KIUP z 100 DP                      KPCC ak 50 9                      KWEA z 100 .....                      KWVZ z 100 .....                      KWTN ak 100 .....                      WALR ak 100 .....                      WBAX ae 100 1                      WBBL ak 100 S                      WBRB ak 100 3                      WCOL ak 100 .....                      WCRW ae 100 4                      WEBQ ae 100 6 (.25)                      WEDC ae 100 4                      WFAS ae 100 3                      WGBB ae 100 3                      WGCM ae 100 (.25)                      WGNV ak 100 3                      WHBF ak 100 (.25)                      WHBU ak 100 (.25)                      WIBU ak 100 (.25)                      WJBY ak 100 .....                      WJWJ ah 100 D                      WJWJ z 100 (.25)                      WKOK ak 100 1                      WMBG ak 100 C (.25)                      WMFG z 100 P                      WMFN z 100 P                      WOCL ak 50 .....                      WOMT ae 100 .....                      WPAX ae 100 D                      WSCB ae 100 4                      WSIX ak 100 .....                      WSOC ak 100 N (.25)                      WTAX ak 100 .....                      XEE z 50 .....                      XEFV ak 100 .....                      XETH ak 100 .....</p>	<p>Santa Clara, Cuba                      Elk City, Okla.                      Devils Lake, N. D.                      Klamath Falls, Ore.                      Lincoln, Neb.                      Fort Smith, Ark.                      Cape Girardeau, Mo.                      San Bernardino, Cal.                      Olympia, Wash.                      Eureka, Calif.                      Garden City, Kans.                      Ardmore, Okla.                      Pasadena, Calif.                      Shreveport, La.                      Hilo, Hawaii                      Watertown, S. D.                      Zanesville, Ohio                      Wilkes Barre, Pa.                      Richmond, Va.                      Red Bank, N. J.                      Columbus, Ohio                      Chicago, Ill.                      Harrisburg, Ill.                      Chicago, Ill.                      White Plains, N. Y.                      Freeport, N. Y.                      Mississippi City,                      Chester, N. Y.                      Rock Island, Ill.                      Anderson, Ind.                      Poynette, Wis.                      Gadsden, Ala.                      Hagerstown, Md.                      Lansing, Mich.                      Akron, Ohio                      Sunbury, Pa.                      Richmond, Va.                      Hibbing, Minn.                      Clarksdale, Miss.                      Jamestown, N. Y.                      Manitowoc, Wis.                      Thomasville, Ga.                      Chicago, Ill.                      Springfield, Tenn.                      Charlotte, N. C.                      Springfield, Ill.                      Durango, Dgo.                      Juarez, Chih.                      Puebla, Pue.</p>	<p>WXYZ ak 1000 .....                      XEAI z 100 .....                      XEKL z 500 .....                      XELA z 50 .....</p>	<p>Detroit, Mich.                      Mexico City, D. F.                      Leon, Guan.                      Saltillo, Coah.</p>
<b>1250 kilocycles</b>		<b>239.9 meters</b>	
<p>CMCG z 162 1255                      CMKC z 150 .....                      KFOZ ae 1000 .....                      WCAL ah 1000 2 (.25)                      WDSU ak 1000 C                      WHBI ak 1000 a (2.5)                      WLB ak 1000 2                      WNEW ae 1000 a (2.5)                      WTCN ak 1000 2 (5)</p>	<p>Havana, Cuba                      Santiago, Cuba                      Long Beach, Calif.                      Northfield, Minn.                      New Orleans, La.                      Newark, N. J.                      Minneapolis, Minn.                      Newark, N. J.                      Minneapolis, Minn.</p>		
<b>1260 kilocycles</b>		<b>238.0 meters</b>	
<p>CFRN ak 100 .....                      KGVO ak 1000 .....                      KOIL ak 1000 B (2.5)                      KPAC ak 500 D                      KRGV ak 500 .....                      KUOA ak 1000 D                      KVOA ak 500 R                      WHIO ae 1000 R                      WNBX ak 1000 D                      WTOC ae 1000 C</p>	<p>Edmonton, Alta.                      Missoula, Mont.                      Council Bluffs, Iowa                      Port Arthur, Texas                      Weslaco, Texas                      Fayetteville, Ark.                      Tucson, Ariz.                      Dayton, Ohio                      Springfield, Vt.                      Savannah, Ga.</p>		
<b>1270 kilocycles</b>		<b>236.1 meters</b>	
<p>CMCP z 150 .....                      CMHD dk 250 .....                      HIX ak 1000 .....                      KGCA ak 100 2D                      KOL ae 1000 C (2.5)                      KVOR ae 1000 C                      KWLC ak 100 2D                      WASH ak 500 a                      WFBR ae 500 R                      WJDX ae 1000 N (2.5)                      WOOD ak 500 a                      XEG z 500 .....                      XFB ak 1000 .....</p>	<p>Havana, Cuba                      Calbarien, Cuba                      Santo Domingo, D. R.                      Decorah, Iowa                      Seattle, Wash.                      Colorado Spgs., Colo.                      Decorah, Iowa                      Grand Rapids, Mich.                      Baltimore, Md.                      Jackson, Miss.                      Grand Rapids, Mich.                      Ensenada, B. C.                      Jalapa, Ver.</p>		
<b>1280 kilocycles</b>		<b>234.2 meters</b>	
<p>KFBB ae 1000 (2.5)                      WCAM ae 500 1                      WCAP ae 500 1                      WDOD ae 1000 C (5)                      WIBA ae 1000 N                      WORC ak 500 C                      WRR ak 500 .....                      WTNJ ak 500 1 A                      XEMX z 12 .....</p>	<p>Great Falls, Mont.                      Camden, N. J.                      Asbury Park, N. J.                      Chattanooga, Tenn.                      Madison, Wis.                      Worcester, Mass.                      Dallas, Texas                      Trenton, N. J.                      Mexico City, D. F.</p>		
<b>1290 kilocycles</b>		<b>232.4 meters</b>	
<p>KDYL z 1000 N                      KLCN z 100 D                      KTRH ak 500 C (5)                      WEBC ae 1000 N (2.5)                      WJAS ak 1000 C (2.5)                      WNBZ z 100 D                      WNEL ak 500 .....</p>	<p>Salt Lake City, Utah                      Blytheville, Ark.                      Houston, Texas                      Superior, Wis.                      Pittsburgh, Pa.                      Saranac Lake, N. Y.                      San Juan, P. R.</p>		
<b>1300 kilocycles</b>		<b>230.6 meters</b>	
<p>CMKJ] z 20 .....                      HIZ z 10 .....                      KALE ak 500 3C                      KFAC ak 1000 .....                      KFH ak 1000 C2                      KFJR ag 500 3                      WBBR ae 1000 1                      WEVD ak 1000 1                      WFAB ae 1000 1                      WFBC ak 1000 (5)</p>	<p>Guantanamo, Cuba                      Santo Domingo, D. R.                      Portland, Ore.                      Los Angeles, Calif.                      Wichita, Kans.                      Portland, Ore.                      Brooklyn, N. Y.                      New York, N. Y.                      New York, N. Y.                      Greenville, S. C.</p>		
<p><b>1220 kilocycles</b> 245.8 meters</p> <p>CMJE z 50 .....                      KFKU ae 1000 a                      KTW ak 1000 S2                      KWSC ae 1000 2 (2)                      WCAD ak 500 D                      WCAE ak 1000 R                      WDAE ae 1000 C (2.5)                      WREN ak 1000 Ba(5)                      XETZ z 12 .....</p> <p>Camaguey, Cuba/                      Lawrence, Kas.                      Seattle, Wash.                      Pullman, Wash.                      Canton, N. Y.                      Pittsburgh, Pa.                      Tampa, Fla.                      Lawrence, Kas.                      Veracruz, Ver.</p>	<p><b>1230 kilocycles</b> 243.8 meters</p> <p>GJOC ak 100 F                      CMCB ak 112 .....                      KGBX ak 500 .....                      KGGM ak 250 (.5)                      KYA ae 1000 N                      WFBM ae 1000 C                      WFNAC ak 1000 C (2.5)                      XEFJ ak 100 .....</p> <p>Lethbridge, Alta.                      Havana, Cuba                      Springfield, Mo.                      Albuquerque, N. M.                      San Francisco, Calif.                      Indianapolis, Ind.                      Boston, Mass.                      Monterrey, N. L.</p>	<p><b>1240 kilocycles</b> 241.8 meters</p> <p>CJCB ak 1000 F                      CMHB z 30 .....                      KGCU ak 250 1                      KLPN ak 250 1                      KTAT ak 1000 C                      KTFI ae 1000 .....                      WKAO ae 1000 .....</p> <p>Sydney, N. S.                      San Spiritus, Cuba                      Mandan, N. D.                      Minot, N. D.                      Fort Worth, Texas                      Twin Falls, Idaho                      San Juan, P. R.</p>	

## INDEX BY FREQUENCIES

<p>WHAZ ae 500 1 WIOD ae 1000 N</p>	<p>Troy, N. Y. Miami, Fla.</p>	<p>WDRG ae 1000 C (2.5) WSAI ak 1000 R (2.5) WTAQ ae 1000 1</p>	<p>Hartford, Conn. Cincinnati, Ohio Eau Claire, Wis.</p>
<p><b>1310 kilocycles 228.9 meters</b></p>		<p><b>1340 kilocycles 223.7 meters</b></p>	
<p>CHCK ak 50 ..... CJLK z 100 ..... CJLS z 100 ..... CKCV ak 50 F CKRJ ak 100 D KFBK ak 100 C KFPL dkh 100 ..... KFFM ae 15 ..... KFXR ak 100 (.25) KFYO ak 100 (.25) KGCX ak 100 (.25) KGEZ aj 100 ..... KGFW ak 100 ..... KIT ak 100 (.25) KIUJ z 100 ..... KMED ck 100 (.25) KRMD ak 100 ..... KROC z 100 P KRTM ak 100 ..... KXRO ak 100 ..... WAML ak 100 ..... WBEO ae 100 ..... WBOW ak 100 (.25) WBRE ak 100 ..... WCLS ae 100 ..... WCMJ z 100 DP WDAH ak 100 S WEBR ak 100 (.25) WEXL ak 50 ..... WFBG ae 100 3 WFDG am 100 ..... WGH ak 100 (.25) WHAT ak 100 4 WJAC ae 100 3 WLBC ak 50 6 (1) WLNH ak 100 D WMBO ak 100 ..... WMFF z 100 D WNBH ae 100 (.25) C WOL ae 100 (.25) A WRAW ak 100 ..... WR0L ak 100 ..... WSAJ ae 100 ..... WSGN ak 100 (.25) WSJS ak 100 C WTAL z 100 P WTEL ah 100 4 WTJS ak 100 (.25) WTRC ak 50 6 (1) XEAJ z 15 ..... XEC z 50 ..... XECW z 10 ..... XECF ak 100 ..... XEFW ak 250 ..... XELM z 15 ..... XETB z 125 ..... XEX ak 125 .....</p>	<p>Charlottetown, P.E.I. Kirkland Lake, Ont. Yarmouth, N. S. Quebec, Que. Jerome, Ariz. Sacramento, Calif. Dublin, Texas Greenville, Texas Oklahoma City, Ok. Lubbock, Texas Wolf Point, Mont. KallsPELL, Mont. Kearney, Neb. Yakima, Wash. Santa Fe, N. Mex. Medford, Ore. Shreveport, La. Rochester, Minn. El Paso, Texas Aberdeen, Wash. Laurel, Miss. Marquette, Mich. Terre Haute, Ind. Wilkes Barre, Pa. Joliet, Ill. Ashland, Ky. El Paso, Texas Buffalo, N. Y. Royal Oak, Mich. Altoona, Pa. Flint, Mich. Newport News, Va. Philadelphia, Pa. Johnstown, Pa. Muncie, Ind. Laconia, N. H. Auburn, N. Y. Plattsburg, N. Y. New Bedford, Mass. Washington, D. C. Reading, Pa. Knoxville, Tenn. Grove City, Pa. Birmingham, Ala. Winston-Salem, N. C. Tallahassee, Fla. Philadelphia, Pa. Jackson, Tenn. Elkhart, Ind. Cazaca, Camp. Tijuana, B. C. Mexico City, D. F. Merida, Yuc. Tampico, Tams. Mineral del Monte Torreon, Coah. Monterrey, N. L.</p>	<p>KFPY ak 1000 C KGDY ak 250 D KGNO ak 250 ..... WCOA ak 500 C WFEA ae 500 C (1) WSPD ae 1000 C (2.5) XFD z 250 .....</p>	<p>Spokane, Wash. Huron, S. D. Dodge City, Kans. Pensacola, Fla. Manchester, N. H. Toledo, Ohio Orizaba, Ver.</p>
<p><b>1320 kilocycles 227.1 meters</b></p>		<p><b>1350 kilocycles 222.1 meters</b></p>	
<p>CMCK z 100 P CMOX z 250 ..... KGHF ak 500 ..... KGBM ak 250 C KID ae 250 (.5) KRNT ak 500 C (.5) WADC ae 1000 C (2.5) WORK ak 1000 ..... WSMB ak 1000 N</p>	<p>Havana, Cuba Havana, Cuba Pueblo, Colo. Honolulu, T. H. Idaho Falls, Idaho Des Moines, Iowa Akron, Ohio York, Pa. New Orleans, La.</p>	<p>CMCA z 435 ..... KIDO ak 1000 (2.5) KWK ak 1000 B (5) WAWZ ae 500 1 (1) WBNX ae 250 1</p>	<p>Havana, Cuba Boise, Idaho St. Louis, Mo. Zarephath, N. J. New York, N. Y.</p>
<p><b>1330 kilocycles 225.4 meters</b></p>		<p><b>1360 kilocycles 220.4 meters</b></p>	
<p>CMHK z 250 ..... KGB ak 1000 C (2.5) KMO ak 250 ..... KSCJ aj 1000 1C (2.5)</p>	<p>Cruces, Cuba San Diego, Calif. Tacoma, Wash. Sloux City, Iowa</p>	<p>CMJH ak 50 ..... KGER ak 1000 ..... KGR ak 1000 N (2.5) WCSC ae 500 (1) WFBL ak 1000 C (5) WGES ae 500 1 WQBC ak 1000 D WSBT ak 500 1</p>	<p>Ciego de Avila, Cuba Long Beach, Calif. Butte, Mont. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Vicksburg, Miss. South Bend, Ind.</p>
<p><b>1370 kilocycles 218.8 meters</b></p>		<p><b>1380 kilocycles 217.6 meters</b></p>	
<p>CKCW z 100 F CMGE z 30 ..... KCRG ak 100 2 (2.5) KELD z 100 P KERN ak 100 ..... KFGO ak 100 ..... KFJM ak 100 (.25) KFJZ ae 100 ..... KFRO z 100 D KGAR ae 100 (.25) KGFQ bk 100 2 KGFL ak 100 4 KGKL ak 100 (.25) KIGA ak 100 4 KLUF z 100 (.25) KMAC ak 100 5 KONO ak 100 5 KRE ak 100 (.25) KRKO ak 50 1 KSLM z 100 D KUJ ak 100 ..... KVL ak 100 i KWKC z 100 ..... KWYO ak 100 ..... WABY ak 100 A WAGF ak 100 (.25) WBTM ak 100 (.25) WCBM ae 100 (.25) A WDAS ae 100 (.25) WGL ak 100 C WBHQ ak 100 ..... WHDF ak 100 (.25) WIBM ak 100 (.25) WJTL ae 100 ..... WLLH ak 100 (.25) WMBR ak 100 C WMFD z 100 DP WMFO z 100 DP WOC z 100 C WPAY ak 100 ..... WPFB ak 100 ..... WQDM ae 100 D WRAK ae 100 (.25)</p>	<p>Moncton, N. B. Cardenas, Cuba Enid, Okla. El Dorado, Ark. Bakersfield, Calif. Boone, Iowa Grand Forks, N. D. Fort Worth, Texas Longview, Texas Tucson, Ariz. Oklahoma City, Ok. Roswell, N. M. San Angelo, Texas Clovis, N. M. Galveston, Texas San Antonio, Texas San Antonio, Texas Berkeley, Calif. Everett, Wash. Salem, Ore. Walla Walla, Wash. Seattle, Wash. Kansas City, Mo. Sheridan, Wyo. Albany, N. Y. Dothan, Ala. Danville, Va. Baltimore, Md. Philadelphia, Pa. Fort Wayne, Ind. Memphis, Tenn. Calumet, Mich. Jackson, Mich. Atlanta, Ga. Lowell, Mass. Jacksonville, Fla. Wilmington, N. C. Decatur, Ala. Davenport, Iowa Portsmouth, Ohio Hattiesburg, Miss. St. Albans, Vt. Williamsport, Pa.</p>		

## INDEX BY FREQUENCIES

<p>WRDO ae 100 .....            WRJN ak 100 .....            WSVS ak 50 D            XEFZ ae 100 .....            XE1 ak 125 .....            XEZZ z 100 .....            ..... z 100 DP</p>	<p>Augusta, Maine            Racine, Wis.            Buffalo, N. Y.            Mexico City, D. F.            Morelia, Mch.            San Luis Potosi, SLP            Astoria, Ore.</p>	<p>WEED ak 100 3            WEHC ae 100 3 (.25)            WEHS ak 100 a            WELL ak 100 .....            WGPC ak 100 .....            WHDL ak 100 D            WHFC ae 100 a            WILM aj 100 2            WJBO z 100 .....            WJMS ak 100 .....            WKBI ak 100 a            WLAP ak 100 (.25)            WLBF ak 100 .....            WLEU z 100 P (a25)            WMAS ak 100 C (.25)            WMBC ae 100 (.25)            WMBH ak 100 (.25)            WMFJ z 100 P            WNRA ak 100 D            WPAD ak 100 (.25)            WPRP z 100 P (.25)            WWC z 1000 P            XEAZ z 7 .....            XEFB ak 100 .....            ..... z 100 P</p>	<p>Rocky Mount, N. C.            Charlottesville, Va.            Cicero, Ill.            Battle Creek, Mich.            Albany, Ga.            Olean, N. Y.            Cicero, Ill.            Wilmington, Del.            Baton Rouge, La.            Ironwood, Mich.            Cicero, Ill.            Lexington, Ky.            Kansas City, Kans.            Erie, Pa.            Springfield, Mass.            Detroit, Mich.            Joplin, Mo.            Daytona Beach, Fla.            Muscle Shoals, Ala.            Paducah, Ky.            Ponce, P. R.            Spartanburg, S. C.            Guanajuato, Gto.            Monterrey, N. L.            Parkersburg, W. Va.</p>
<b>1380 kilocycles 217.3 meters</b>			
<p>CMBX ak 171 .....            CMJC z 150 .....            KOH ak 500 C            KOV ak 500 2            WALA ae 500 C (1)            WKBH ae 1000 .....            WMFE z 250 PD            WSMK ak 200 C</p>	<p>Havana, Cuba            Camaguey, Cuba            Reno, Nev.            Pittsburg, Pa.            Mobile, Ala.            LaCrosse Wis.            New Britain, Conn.            Dayton, Ohio</p>		
<b>1390 kilocycles 215.7 meters</b>			
<p>CJRC ck 100 F            HIH ak 15            KLRA ae 1000 C (2.5)            KOY ae 500 (1)            WHK ae 1000 C (2.5)</p>	<p>Winnipeg, Man.            1395 San Ped. de Macoris, DR            Little Rock, Ark.            Phoenix, Ariz.            Cleveland, Ohio</p>		
<b>1400 kilocycles 214.2 meters</b>			
<p>CMGC z 100 .....            KLO ae 500 C            KTUL ak 500 C            TGX ak 150 .....            WARD ak 500 2            WBBC ae 500 2 (1)            WIRE ak 500 N (1)            WLTH ak 500 2            WVFW ak 500 2</p>	<p>Matanzas, Cuba            Ogden, Utah            Tulsa, Okla.            Guatemala City, Gt.            Brooklyn, N. Y.            Brooklyn, N. Y.            Indianapolis, Ind.            Brooklyn, N. Y.            Brooklyn, N. Y.</p>		
<b>1410 kilocycles 212.6 meters</b>			
<p>CKFC ak 50 5            CKMO ag 100 5F            CMCR z 122 .....            KGRS ae 1000 1 (2.5)            WAAB ak 500 C            WBCM ae 500 .....            WDAG ae 1000 1 (2.5)            WHBL ae 500 4            WHIS ak 250 2 (.5)            WRBX ae 250 2 (.5)            WROK ak 500 4            WSFA ak 500 C (1)</p>	<p>Vancouver, B. C.            Vancouver, B. C.            Havana, Cuba            Amarillo, Texas            Boston, Mass.            Bay City, Mich.            Amarillo, Texas            Sheboygan, Wis.            Bluefield, W. Va.            Roanoke, Va.            Rockford, Ill.            Montgomery, Ala.</p>		
<b>1420 kilocycles 211.1 meters</b>			
<p>CKGB ak 100 .....            CKNC ak 100 F            CMGI z 30 .....            KABC ak 100 .....            KABR z 100 D            KBPS aj 100 4            KCMC ak 100 .....            KFIZ ak 100 .....            KGFF ak 100 .....            KGGC ak 100 .....            KGIW ak 100 1            KGIX ak 100 P (.25)            KIDW z 100 1            KIUN z 100 P            KORE ae 100 .....            KRLC z 100 P            KUMA z 100 .....            KWBG z 100 P            KXL ae 100 4 (.25)            WACO ak 100 C            WAGM ae 100 .....            WAZL ak 100 2            WCBS ak 100 .....</p>	<p>Timmins, Ont.            Toronto, Ont.            Colon, Cuba            San Antonio, Texas            Aberdeen, S. Dak.            Portland, Ore.            Texarkana, Ark.            Fond du Lac, Wis.            Shawnee, Okla.            San Francisco, Cal.            Alamosa, Colo.            Las Vegas, Nev.            Lamar, Colo.            Pecos, Texas            Eugene, Ore.            Lewiston, Idaho            Yuma, Ariz.            Hutchinson, Kans.            Portland, Ore.            Waco, Texas            Presque Isle, Maine            Hazleton, Pa.            Springfield, Ill.</p>		
<b>1460 kilocycles 205.4 meters</b>			
<p>CMKF z 30 .....            KSTP ae 10000 N (25)            WJSV ak 10000 C</p>	<p>Holquin, Cuba            St. Paul, Minn.            Washington, D. C.</p>		
<b>1470 kilocycles 204.0 meters</b>			
<p>KGA ak 5000 N (2.5)            WLAC ak 5000 C</p>	<p>Spokane, Wash.            Nashville, Tenn.</p>		
<b>1480 kilocycles 202.6 meters</b>			
<p>KOMA ak 5000 C            WKBW ae 5000 C</p>	<p>Oklahoma City, Ok.            Buffalo, N. Y.</p>		
<b>1490 kilocycles 201.2 meters</b>			
<p>WCKY ae 5000 B</p>	<p>Covington, Ky.</p>		

INDEX BY LOCATIONS

1500 kilocycles 199.9 meters

CMCN	z	162	.....
KDB	ak	100	C
KGFI	ak	100	(.25)
KGFK	ak	100	Y
KGKB	ak	100	.....
KGKY	ck	100	(.25)
KNOW	ak	100	.....
KOTN	ak	100	D
KPJM	ak	100	.....
KPLC	z	100	P
KPO	ak	100	(.25)
KREG	ak	100	.....
KXO	ae	100	.....
WCNW	ak	100	1 (.25)
WDNC	ak	100	C
WGAL	ae	100	(.25)
WHEF	z	100	(.25)
WJKB	ae	100	(.25)
WKBB	ae	100	(.25)
WKBY	ak	100	.....
WKBY	ak	100	(.25)
WKEU	ak	100	.....

Havana, Cuba
Santa Barbara, Calif.
Corpus Christi, Tex.
Moorhead, Minn.
Tyler, Texas
Scottsbluff, Neb.
Austin, Texas
Pine Bluff, Ark.
Prescott, Ariz.
Lake Charles, La.
Wenatchee, Wash.
Santa Ana, Calif.
El Centro, Calif.
Brooklyn, N. Y.
Durham, N. C.
Lancaster, Pa.
Kosciusko, Miss.
Detroit, Mich.
E. Dubuque, Ill.
Richmond, Ind.
Muskegon, Mich.
Griffin, Ga.

WMBQ	ae	100	1
WMEX	ak	100	(.25) A
WNBF	ae	100	(.25) C
WOPI	ae	100	.....
WRDW	ak	100	.....
WRGA	ak	100	(.25)
WSYB	ak	100	.....
WTMV	z	100	P
WWRL	ak	100	1 (.25)
WWSW	ae	100	(.25)
.....	z	100	P

Brooklyn, N. Y.
Boston, Mass.
Binghamton, N. Y.
Bristol, Tenn.
Augusta, Ga.
Rome, Ga.
Rutland, Vt.
East St. Louis, Ill.
Woodside, N. Y.
Pittsburgh, Pa.
St. Louis, Mo.

1510 kilocycles 198.6 meters

CFRC	ak	100	.....
CKCR	ak	100	.....

Kingston, Ont.
Waterloo, Ont.

1530 kilocycles 196.0 meters

W1XBS	z	1000	A
W9XB Y	z	1000	.....

Waterbury, Conn.
Kansas City, Mo.

1550 kilocycles 193.4 meters

W2XR	z	1000	.....
W6XAI	z	1000	.....

Long Isl. City, N. Y.
Bakersfield, Calif.

INDEX 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. A American.

<b>ALABAMA</b>			
Birmingham			
WAPI	1140	5000 N	
WBRC	930	1000 C	
WSGN	1310	100	
Decatur			
WMFO	1370	100	
Dothan			
WAGF	1370	100	
Gadsden			
WJBY	1210	100	
Mobile			
WALA	1380	500 C	
Montgomery			
WSFA	1410	500 C	
Muscle Shoals			
WNRA	1420	100	
<b>ALASKA</b>			
Anchorage			
KFQD	780	250	
Juneau			
KINY	610	250	
Ketchikan			
KGBU	900	500	
<b>ARIZONA</b>			
Jerome			
KCRJ	1310	100	
Lowell			
KSUN	1200	100	
Phoenix			
KOY	1390	500	
KTAR	620	1000 N	
Prescott			
KPJM	1500	100	
Tucson			
KGAR	1370	100	
KVOA	1260	500	
Yuma			
KUMA	1420	100	
<b>ARKANSAS</b>			
Blytheville			
KLCN	1290	100	
El Dorado			
KELD	1370	100	
Fayetteville			
KUOA	1260	1000	
Fort Smith			
KFPW	1210	100	

<b>Hot Springs</b>			
KTHS	1060	10000 N	
Jonesboro			
KBTM	1200	100	
Little Rock			
KARK	890	250	
KGHI	1200	100	
KLRA	1390	1000 C	
Pine Bluff			
KOTN	1500	100	
Texarkana			
KCMC	1420	100	
<b>CALIFORNIA</b>			
Bakersfield			
KERN	1370	100 C	
W6XAI	1550	1000	
Berkeley			
KRE	1370	100	
Beverly Hills			
KMPC	710	500	
Burbank			
KELW	780	500	
Chico			
KHSL	950	250	
El Centro			
KXO	1500	100	
Eureka			
KIEM	1210	100	
Fresno			
KMJ	580	1000 C	
Glendale			
KIEV	850	250	
Hollywood			
KFWB	950	1000	
KMTR	570	1000	
KNX	1050	50000	
Long Beach			
KFOX	1250	1000	
KGER	1360	1000	
Los Angeles			
KECA	1430	1000	
KFAC	1300	1000	
KFI	640	50000 N	
KFSG	1120	1000	
KFVD	1000	250	
KGFJ	1200	100	
KHJ	900	1000 C	
KRKK	1120	1000	
KTM	780	500	

<b>Modesto</b>			
KTRB	740	250	
Oakland			
KLS	1440	250	
KLX	880	1000	
KROW	930	1000	
Pasadena			
KPPC	1210	50	
Sacramento			
KFBK	1310	100 C	
San Bernardino			
KFXM	1210	100	
San Diego			
KFSD	600	1000 N	
KGB	1330	1000 C	
San Francisco			
KFRC	610	1000 C	
KGGC	1420	100	
KGO	790	7500 N	
KJBS	1070	500	
KPO	680	50000 N	
KTAB	560	1000	
KYA	1230	1000 N	
San Jose			
KOW	1010	1000	
Santa Ana			
KREG	1500	100	
Santa Barbara			
KDB	1500	100 C	
Stockton			
KGDM	1100	1000	
KWG	1200	100 C	
<b>COLORADO</b>			
Alamosa			
KGIW	1420	100	
Colorado Springs			
KVOR	1270	1000 C	
Denver			
KFEL	920	500	
KLZ	560	1000 C	
KOA	830	50000 N	
KPOF	880	500	
KVOD	920	500	
Grand Junction			
KFXJ	1200	100	
Greeley			
KFKA	880	500	
Lamar			
KIDW	1420	100	

<b>Pueblo</b>			
KGHF	1320	500	
Sterling			
KGEK	1200	100	
<b>CONNECTICUT</b>			
Bridgeport			
WICC	600	500 C	
Hartford			
WDRC	1330	1000 C	
WTIC	1040	50000 R	
New Britain			
WMFE	1380	250	
New Haven			
WMFI	900	500	
Storrs			
WCAC	600	500	
Waterbury			
WATR	1190	100	
W1XBS	1530	1000 A	
<b>DELAWARE</b>			
Wilmington			
WDEL	1120	250 A	
WILM	1420	100	
<b>DISTRICT OF COLUMBIA</b>			
Washington			
WJSV	1460	10000 C	
WMAL	630	250 B	
WOL	1310	100 A	
WRC	950	500 R	
<b>FLORIDA</b>			
Clearwater			
WFLA	620	1000 N	
Daytona Beach			
WMFJ	1420	100	
Gainesville			
WRUF	830	5000	
Jacksonville			
WJAX	900	1000 N	
WMBR	1370	100 C	
Miami			
WIOD	1300	1000 N	
WQAM	560	1000 C	
Orlando			
WDBO	580	1000 C	
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WCOA	1340	500 C	

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<b>IDAHO</b>			
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Cape Girardeau KFVS 1210 100	WHOM 1450 250	Syracuse WFBL 1360 1000 C	Ardmore KIUO 1210 100
Columbia KFUR 630 500	Newark WHBI 1250 1000	Troy WSYR 570 250 B	Elk City KASA 1210 100
Jefferson City WOS 630 500	WNEW 1250 1000 A	Utica WHAZ 1300 500	Enid KCRC 1370 100
Joplin WMBH 1420 100	Red Bank WBRB 1210 100	White Plains WIBX 1200 100 C	Norman WNAD 1010 1000
Kansas City KMBC 950 1000 C	Trenton WTNJ 1280 500 A	Woodside WFA 1210 100	Oklahoma City KFXR 1310 100
KWKC 1370 100	Zarephath WAWZ 1350 500	Woodsboro WWRL 1500 100	KGFG 1370 100
WDAF 610 1000 R	<b>NEW MEXICO</b>	<b>NORTH CAROLINA</b>	KOMA 1480 5000 C
WHB 860 1000	Albuquerque KGGM 1230 250	Ashville WWNC 570 1000 N	WKY 900 1000 N
W9XBY 1530 1000	KOB 1180 10000	Charlotte WBT 1080 50000 C	Ponca City WBBZ 1200 100
St. Joseph KFEQ 680 2500	Clovis KICA 1370 100	Durham WSOC 1210 100 N	Shawnee KGFF 1420 100
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KMOX 1090 50000 C	Santa Fe KIJ 1310 100	Raleigh WBG 1440 500 C	KVOO 1140 25000 N
KSD 550 1000 R	<b>NEW YORK</b>	Rocky Mount WPTF 680 1000 N	<b>OREGON</b>
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WEW 760 1000	WOKO 1430 500 C	Winston-Salem WMFD 1370 100	Corvallis KOAC 550 1000
WIL 1200 100	Auburn WMO 1310 100	WSJS 1310 100 C	Eugene KORE 1420 100
..... 1500 100	Binghamton WMBF 1500 100 C	<b>NORTH DAKOTA</b>	Klamath Falls KFJI 1210 100
Springfield KGBX 1230 500	Brooklyn WARD 1400 500	Bismarck KFYR 550 1000 N	Marshfield KOOS 1200 100
KWTO 560 1000	WARD 1400 500	Devils Lake KDLR 1210 100	Medford KMED 1310 100
<b>MONTANA</b>	WBBC 1400 500	Fargo WDAY 940 1000 N	Portland KALE 1300 500 C
Billings KGHL 780 1000 N	WBRR 1300 1000	Grand Forks KFJM 1370 100	KBPS 1420 100
Butte KGIR 1360 1000 N	WCNW 1500 100	Mandan KGCU 1240 250	KEX 1180 5000 N
Great Falls KFBB 1280 1000	WLTH 1400 500	Minot KLPM 1240 250	KEJR 1300 500
KallsPELL KGEZ 1310 100	WMBQ 1500 100	<b>OHIO</b>	KGW 620 1000 N
Missoula KGVO 1260 1000	WVFW 1400 500	Akron WADG 1320 1000 C	KOIN 940 1000 C
Wolf Point KGCC 1310 100	Buffalo WBEN 900 1000 R	Canton WJW 1210 100	KWJ 1040 500
<b>NEBRASKA</b>	WEBR 1310 100	Cincinnati WBEE 1200 100	KXL 1420 100
Clay Center KMMJ 740 1000	WGR 550 1000 C	Cleveland WCRG 550 1000 C	Salem KSLM 1370 100
Kearney KGFV 1310 100	WKBW 1480 5000 C	Columbus WAIU 640 500	<b>PENNSYLVANIA</b>
Lincoln KFAB 770 10000 C	WSVS 1370 50	Dayton WHIO 1260 1000 R	Allentown WCBA 1440 500
Norfolk WJAG 1060 1000	WCAD 1220 500	Portsmouth WPA 1370 100	WSAN 1440 500
North Platte KGNF 1430 1000	Chester WGNV 1210 100	Toledo WSPD 1340 1000 C	Altoona WFBG 1310 100
Omaha WAAW 660 500	Elmira WESG 850 1000	Youngstown WKBN 570 500 C	Erie WWPA 850 250
WOW 590 1000 R	Frederick WGBB 1210 100	Zanesville WALR 1210 100	Glenoid WLEU 1420 100
Scottsbluff KGKY 1500 100	Jamestown WOCL 1210 50	<b>NEW HAMPSHIRE</b>	Greensburg WBG 970 100
York KGBZ 930 1000	Long Island City W2X 1550 1000	Laconia WLNH 1310 100	Harrisburg WHP 1430 500 C
<b>NEVADA</b>	New York WABC 860 50000 C	Manchester WFEA 1340 500 C	Hazleton WKBO 1200 100
Las Vegas KGIX 1420 100	WABC 860 50000 R	Portsmouth WHEB 740 250	Johnstown WJAC 1310 100
Reno KOH 1380 500 C	WEAF 660 50000 R	<b>NEW JERSEY</b>	Lancaster WGAL 1500 100
<b>NEW HAMPSHIRE</b>	WEVD 1300 1000	Asbury Park WCAP 1280 500	Philadelphia KYW 1020 10000 R
Laconia WLNH 1310 100	WFBF 1300 1000	Atlantic City WPG 1100 5000 C	WCAU 1170 50000 C
Manchester WFEA 1340 500 C	WHN 1010 1000		WDAS 1370 100
Portsmouth WHEB 740 250	WINS 1180 1000		WFIL 560 1000 B
<b>NEW JERSEY</b>	WJZ 760 50000 B		WHAT 1310 100
Asbury Park WCAP 1280 500	WLWL 1100 5000		WIP 610 500 A
Atlantic City WPG 1100 5000 C	WMCA 570 500		
	WNYC 810 1000		
	WOV 1130 1000		
	Olean WHDL 1420 100		
	Plattsburg WMFF 1310 100		
	Rochester WHAM 1150 50000 B		
	WHEC 1430 500 C		

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WRAX 920 250	Nashville	Arlington	Madison 940 2500
WTEL 1310 100	WLAC 1470 5000 C	NAA 690 1000	WHA 940 2500
Pittsburgh	WSM 650 50000 N	Charlottesville	WBA 1280 1000 N
KDKA 980 50000 B	Springfield	WEHC 1420 100	Manitowoc
KQV 1380 500	WSIX 1210 100	Danville	WOMT 1210 100
WCAE 1220 1000 R	<b>TEXAS</b>	WBTM 1370 100	Milwaukee
WJAS 1290 1000 C	Amarillo	Lynchburg	WISN 1120 250 C
WSSW 1500 100	KGRS 1410 1000	WLVA 1200 100	WTMJ 620 1000 N
Reading	WDAG 1410 1000	Newport News	Poynette
WEU 830 1000	Austin	WGH 1310 100	WIBU 1210 100
WRAW 1310 100	KNOW 1500 100	Norfolk	Racine
Scranton	Beaumont	WTAR 780 500 N	WRJN 1370 100
WGBI 880 500	KFDM 560 500	Petersburg	Sheboygan
WQAN 880 250	College Station	WPHR 880 500	WHBL 1410 500
Sunbury	WTAW 1120 500	Richmond	Stevens Point
WKOK 1210 100	Corpus Christi	WBBL 1210 100	WLBL 900 2500
Wilkes-Barre	KGFI 1500 100	WMBG 1210 100 C	Superior
WBAX 1210 100	Dallas	WRVA 1110 5000 N	WEBC 1290 1000 N
WBRE 1310 100	KRLD 1040 10000 C	Roanoke	<b>WYOMING</b>
Williamsport	WFAA 800 50000 N	WDBJ 930 1000 C	Casper
WRAC 1370 100	WRR 1280 500	WRBX 1410 250	KDFN 1440 500
York	Dublin	Staunton	Sheridan
WORK 1320 1000	KFPL 1310 100	WSVA 550 500	KWYO 1370 100
<b>PORTO RICO</b>	El Paso	<b>WASHINGTON</b>	<b>CANADA</b>
Ponce	KTSM 1310 100	Aberdeen	<b>ALBERTA</b>
WPRP 1420 100	WDAH 1310 100	KXRO 1310 100	Calgary
San Juan	Fort Worth	Bellingham	CFAC 930 100 F
WKAQ 1240 1000	KFJZ 1370 100	KVOS 1200 100	CFCN 1030 10000 F
WNEL 1290 500	KTAT 1240 1000 C	Everett	CJGJ 690 100 F
<b>RHODE ISLAND</b>	WBAP 800 50000 N	KRKO 1370 50	Edmonton
Providence	Galveston	Olympia	CFRN 1260 100
WEAN 780 500 C	KLUF 1370 100	KGY 1210 100	CJGA 730 1000 F
WJAR 890 500 R	Greenville	Pullman	CKUA 580 500
WPRO 630 250 A	KFPM 1310 15	KWSC 1220 1000	Lethridge
<b>SOUTH CAROLINA</b>	Houston	Seattle	CJOC 1230 100 F
Anderson	KPRC 920 1000 N	KJR 970 5000 N	<b>BRITISH COLUMBIA</b>
WAIM 1200 100	KTRH 1290 1000 C	KOL 1270 1000 C	Chilliwack
Charleston	KXYZ 1440 1000	KOMO 920 1000 N	CHWK 780 100 F
WCSC 1360 500	Longview	KPCB 710 250	Kamloops
Columbia	KFR0 1370 100	KRSC 1120 100	CFJC 880 100 F
WIS 1010 1000 N	Lubbock	KTW 1220 1000	Kelowna
Greenville	KFY0 1310 100	KVL 1370 100	CKOV 630 100 F
WFBC 1300 1000	Pecos	KXA 760 250	Trail
Spartanburg	KIUN 1420 100	Spokane	CJAT 910 250 F
WSPA 920 1000	Port Arthur	KFIO 1120 100	Vancouver
WWC 1420 1000	KPAC 1260 500	KFPY 1340 1000 C	CJOR 600 500
<b>SOUTH DAKOTA</b>	San Angelo	KGA 1470 5000 N	CKCD 1010 100
Aberdeen	KGKL 1370 100	KHQ 590 1000 N	CKFC 1410 50
KABR 1420 100	San Antonio	Tacoma	CKMO 1410 100 F
Brookings	KABC 1420 100	KMO 1330 250	CKWX 1010 100 F
KFDY 780 1000	KMAC 1370 100	KVI 570 1000 C	CRCV 1100 1000 F
Huron	KONO 1370 100	Walla Walla	Victoria
KGDY 1340 250	KTSA 550 1000 C	KUJ 1370 100	CFCT 1450 75
Pierre	WOAI 1190 50000 N	Wenatchee	<b>MANITOBA</b>
KGFX 630 200	Tyler	KPO 1500 100	Brandon
Rapid City	KGKB 1500 100	Yakima	CKX 1120 100 F
WCAT 1200 100	Waco	KIT 1310 100	Winnipeg
Sioux Falls	WACO 1420 100 C	<b>WEST VIRGINIA</b>	CJRC 1390 1000 F
KS00 1110 2500	Weslaco	Bluefield	CKY 960 1500 F
Vermillion	KRGV 1260 500	WHIS 1410 250	<b>NEW BRUNSWICK</b>
KUSD 890 500	Wichita Falls	Charleston	Fredericton
Watertown	KGKO 570 500 C	WCHS 580 500	CFNB 550 1000 F
KWTN 1210 100	<b>UTAH</b>	Fairmont	Moncton
Yankton	Ogden	WMMN 890 250	CKCW 1370 100 F
WNAX 570 1000 C	KLO 1400 500 C	Huntington	St. John
<b>TENNESSEE</b>	Salt Lake City	WSAZ 1190 1000	CHSJ 1120 100 F
Bristol	KDYL 1290 1000 N	Parkersburg	<b>N. W. TERRITORY</b>
WOP1 1500 100	KSL 1130 50000 C	..... 1420 100	Aklavik
Chattanooga	<b>VERMONT</b>	Wheeling	CJCU 1210 50
WD0D 1280 1000 C	Burlington	WWVA 1160 5000 C	<b>NOVA SCOTIA</b>
Jackson	WGAX 1200 100	<b>WISCONSIN</b>	Glace Bay
WTJS 1310 100	Rutland	Eau Claire	VAS 685 2000
Knoxville	WSTV 1500 100	WTAQ 1330 1000	Halifax
WNQX 560 1000 C	St. Albans	Fond du Lac	CHNS 930 1000 F
WROL 1310 100	WQMD 1370 100	KFIZ 1420 100	Sydney
Memphis	Springfield	Green Bay	CJCB 1240 1000 F
WBHQ 1370 100	WNBX 1260 1000	WHBY 1200 100	Wolfville
WMC 780 1000 N	Waterbury	Janesville	CKIC 1010 50
WNBR 1430 500	WDEV 550 500	WCLO 1200 100	

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Yarmouth		
CJLS	1310	100
ONTARIO		
Brantford		
CKPC	930	100 F
Chatham		
CFCO	1050	100 F
Cobalt		
CKMC	1210	50
Fort William		
CKPR	930	100 F
Hamilton		
CHML	1010	50 F
CKOC	1120	500 F
Kingston		
CFRC	1510	100
Kirkland Lake		
CJKL	1310	100
London		
CFPL	730	100 F
North Bay		
CFCH	930	100 F
Ottawa		
CKCO	1010	100
CRCO	880	1000 F
Prescott		
CFLC	930	100
St. Catharines		
CKTB	1200	100 F
Sault Ste. Marie		
CJIC	890	100
Stratford		
10-AK	1200	15
Sudbury		
CKSO	780	1000
Timmins		
CKGB	1420	100
Toronto		
CFRB	690	10000 C
CKCL	580	100 F
CKNC	1420	100 F
CRCT	840	5000 N
Waterloo		
CKCR	1510	100
Windsor		
CKLW	1030	5000 C
CRCW	600	1000 F
Wingham		
10-BP	1200	25
PRINCE EDWARD ISLAND		
Charlottetown		
CFCY	630	1000 F
CHCK	1310	50
Summerside		
CHGS	1450	50 F
QUEBEC		
Chicoutimi		
CRCS	950	100 F
Hull		
CKKH	1210	100 F
Montmagny		
VE9EK	1185	10
Montreal		
CFCF	600	400 N
CHLP	1120	100
CKAC	730	5000 C
CRCM	910	5000 F
New Carlisle		
CHNC	1210	100 F
Quebec		
CHRC	580	100 F
CKCV	1310	50 F
CRCK	1050	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	950	5000
VOWR	681	500
MIQUELON		
St. Pierre		
FQN	609	250
CENTRAL AMERICA		
COSTA RICA		
Cartago		
TIGA	1014	30
San Jose		
TICR	912	75
TIFB	714	30
TIGP	800	75
TIRCA	1100	500
TISO	550	250
TIVL	835	30
GUATEMALA		
Guatemala City		
TGW	565	10000
TGX	1400	150
EL SALVADOR		
San Salvador		
RDN	680	500
MEXICO		
AGUASCALIENTES		
Agua Calientes		
XFC	810	350
BAJA CALIFORNIA		
Agua Caliente		
XEBC	730	5000
Ensenada		
XEG	1270	500
Mexicali		
XEAA	920	200
XEAO	560	250
Tijuana		
XEC	1270	50
XEFL	1160	5000
XEMO	865	2500
XEOK	765	2500
CAMPECHE		
Cazaca		
XEAJ	1310	15
CHIHUAHUA		
Chihuahua		
XEFI	1440	250
Juarez		
XEFV	1210	100
XEJ	1020	1250
COAHUILA		
Piedras Negras		
XELO	1110	10000
XEPN	590	50000
Saltillo		
XELA	1240	50
XEOX	640	250
Torreón		
XETB	1310	125
D. F.		
Mexico City		
XEAI	1240	100
XEB	1030	10000
XECW	1310	10
XEFA	1180	500
XEFG	1100	250

XEFO	940	5000
XEFZ	1370	100
XEK	990	100
XELC	740	100
XEMX	1280	12
XEN	710	1000
XEO	940	5000
XEP	840	500
XETW	820	500
XETV	890	5000
XEWZ	1150	100
XEXX	845	500
XEYZ	780	10000
XFX	610	1000
DURANGO		
Durango		
XEE	1210	50
Mineral del Monte		
XELM	1310	15
GUANAJUATO		
Guanajuato		
XEAZ	1420	7
Leon		
XEKL	1240	500
JALISCO		
Guadalajara		
XEA	1060	125
XED	1160	500
MICHOOACAN		
Morelia		
XEI	1370	125
NUEVO LEON		
Monterrey		
XEFB	1420	100
XEFJ	1230	100
XEH	1150	250
XET	690	500
XEX	1310	125
PUEBLA		
Puebla		
XETH	1210	100
SAN LUIS POTOSI		
San Luis Potosi		
XEZZ	1370	100
SONORA		
Nogales		
XEAF	1010	250
TAMAULIPAS		
Nuevo Laredo		
XEAM	960	50
XEFE	920	250
XENT	910	60000
Reynosa		
XEAW	960	10000
Tampico		
XEFW	1310	250
XEMA	1080	50
XES	990	250
VERACRUZ		
Jalapa		
XFB	1270	250
Orizaba		
XFD	1340	350
Veracruz		
XETF	1220	12
XEU	1010	250
YUCATAN		
Merida		
XEFC	1310	100
XEZ	630	500
WEST INDIES		
CUBA		
Caiharion		
CMHD	1270	250
Camaguey		
CMJC	1380	150
CMJE	1220	50
CMJF	1150	200
CMJG	1010	50

CMJK	760	150
CMJL	960	50
Cárdenas		
CMGE	1370	30
Ciago de Avila		
CMJH	1360	50
CMJI	1130	45
CMJO	1180	50
Cienfuegos		
CMHJ	1180	100
CMHW	810	100
Colon		
CMGI	1420	30
Cruces		
CMHK	1330	250
Guantanamo		
CMKJ	1300	20
Havana		
CMAF	730	250
CMBC	940	195
CMBD	1170	163
CMBG	1140	325
CMBS	770	130
CMBX	1380	171
CMBY	640	125
CMBZ	1000	120
CMC	835	500
CMCA	1350	435
CMCB	1230	112
CMCD	960	180
CMCF	815	250
CMCG	1255	162
CMCJ	1200	500
CMCN	1500	162
CMCO	1110	150
CMCP	1270	150
CMCQ	680	250
CMCR	1410	122
CMCU	1280	152
CMCW	750	117
CMCX	660	250
CMCY	1030	1000
CMK	1060	1500
CMOA	790	72
CMOK	1470	184
CMOQ	1320	250
CMQ	840	500
CMW	600	1000
CMX	920	650
Holguin		
CMKF	1460	30
Manzanillo		
CMKM	940	100
Matanzas		
CMGC	1400	100
CMGF	1120	100
CMGH	1040	15
Moron		
CMJP	1430	75
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CMHA	1070	50
San Spiritus		
CMHB	1240	30
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CMHI	1210	150
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<b>CFCF</b> 600 400	Montreal, Que. Mt. Royal Hotel	<b>CJRC</b> 1390 100	Winnipeg, Man. Royal Alexandra Hotel
<b>CFCH</b> 930 100	North Bay, Ont. Capitol Theatre Bldg.	<b>CJRM</b> 540 1000	Moose Jaw, Sask. 311 Main St. No.
<b>CFCN</b> 1030 10000	Calgary, Alta. Toronto Gen. Trust Bldg.	<b>CKAC</b> 730 5000	Montreal, Que. 980 St. Catherine St. W.
<b>CFCO</b> 1050 100	Chatham, Ont. Wm. Pitt Hotel	<b>CKBI</b> 1210 100	Prince Albert, Sask. Canada Bldg.
<b>CFCT</b> 1450 75	Victoria, B. C. 620 View St.	<b>CKCD</b> 1010 100	Vancouver, B. C. 142 Hastings St. W.
<b>CFCY</b> 630 1000	Charlottetown, P.E.I. 143 Great George St.	<b>CKCH</b> 1210 100	Hull, Que. Standish Hall Hotel
<b>CFJC</b> 880 100	Kamloops, B. C. Wilcox-Hall Bldg.	<b>CKCK</b> 1010 500	Regina, Sask. 1853 Hamilton St.
<b>CFLC</b> 930 100	Prescott, Ont. Hoy Bldg., 307 George St.	<b>CKCL</b> 580 100	Toronto, Ont. 444 University Ave.
<b>CFNB</b> 550 1000	Fredericton, N. B. York St.	<b>CKCO</b> 1010 100	Ottawa, Ont. 272 Somerset St. W.
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<b>CFQC</b> 840 1000	Saskatoon, Sask. 216 First Ave., No.	<b>CKCV</b> 1310 50	Quebec, Que. 254 Ave. Marguerite
<b>CFRB</b> 690 10000	Toronto, Ont. 37 Bloor St. W.	<b>CKCW</b> 1370 100	Moncton, N. B. Moncton Brdsg. Co., Ltd.
<b>CFRC</b> 1510 100	Kingston, Ont. Queens University	<b>CKFC</b> 1410 50	Vancouver, B. C. Hemlock & 12th Ave.
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<b>CHCK</b> 1310 50	Charlottetown, P.E.I. 36 Upper Hillsboro St.	<b>CKLW</b> 1030 5000	Windsor, Ont. Guaranty Trust Bldg.
<b>CHGS</b> 1450 50	Summerside, P. E. I. 190 Water St.	<b>CKMC</b> 1210 50	Cobalt, Ont. R. L. MacAdam
<b>CHLP</b> 1120 100	Montreal, Que. Sun Life Bldg.	<b>CKMO</b> 1410 100	Vancouver, B. C. 1604 Bekins Bldg.
<b>CHML</b> 1010 50	Hamilton, Ont. 47 Main St. E.	<b>CKNC</b> 1420 100	Toronto, Ont. 805 Davenport Road
<b>CHNC</b> 1210 100	New Carlisle, Que. Gaspesian Radio Brdsg. Co.	<b>CKOC</b> 1120 500	Hamilton, Ont. Wentworth Bldg.
<b>CHNS</b> 930 1000	Halifax, N. S. Lord Nelson Hotel	<b>CKOV</b> 630 100	Kelowna, B. C. Okanagan Broadcasters, Ltd., Box 243
<b>CHRC</b> 590 100	Quebec, Que. CHRC, Ltd., Victoria Hotel	<b>CKPC</b> 930 100	Brantford, Ont. Arcade Bldg.
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<b>CHWC</b> 1010 500	Regina, Sask. Williams Building	<b>CKSO</b> 780 1000	Sudbury, Ont. W. E. Mason, Grand Theatre Bldg.
<b>CHWK</b> 780 100	Chilliwack, B. C. Wellington Ave.	<b>CKTB</b> 1200 100	St. Catharines, Ont. E. T. Sandell, Welland House
<b>CJAT</b> 910 250	Trail, B. C. Kootenay Brdsg. Co.	<b>CKUA</b> 580 500	Edmonton, Alta. University of Alberta.
<b>CJCA</b> 730 500	Edmonton, Alta. 10122-100A St.	<b>CKWX</b> 1010 100	Vancouver, B. C. Hotel Georgia
<b>CJCB</b> 1240 1000	Sydney, N. S. 318 Charlotte St.	<b>CKX</b> 1120 100	Brandon, Man. Rosser Ave.
<b>CJCJ</b> 690 100	Calgary, Alta. New Albertan Bldg.	<b>CKY</b> 960 15000	Winnipeg, Man. Sherbrooke St.
<b>CJCU</b> 1210 50	Aklavik, N. W. T. Dr. J. A. Urquhart, Dept. of Interior	<b>CMAF</b> 730 250	Havana, Cuba 1 y 8 Rept. Miramar
<b>CJGX</b> 630 500	Yorkton, Sask. 188 Grain Exchange Bldg. (Winnipeg)	<b>CMBC</b> 940 195	Havana, Cuba Domingo Fernandez, Maximo Gomez No. 139
<b>CJIC</b> 890 100	S. Ste. Marie, Ont. Windsor Hotel	<b>CMBD</b> 1170 163	Havana, Cuba Luis Perez Garcia
<b>CJKL</b> 1310 100	Kirkland Lake, Ont. O. J. Thorpe	<b>CMBG</b> 1140 325	Havana, Cuba John L. Stowers, Hospital No. 100
<b>CJLS</b> 1310 100	Yarmouth, N. S. Laurie L. Smith, Grand Hotel	<b>CMBS</b> 770 130	Havana, Cuba Calzada y H. St., Vedado
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<b>CMCW 750 117</b> Havana, Cuba Galliano y San Lazaro Sts.	<b>CRCK 1050 1000</b> Quebec, Que. Chateau Frontenac Hotel
<b>CMCX 660 250</b> Havana, Cuba Maceo No. 7, Guanabacoa	<b>CRCM 910 5000</b> Montreal, Que. 1231 St. Catherine St. W.
<b>CMCY 1030 1000</b> Havana, Cuba Manuel D. Autran, Calle G 215, Vedado	<b>CRCO 880 1000</b> Ottawa, Ont. Chateau Laurier Hotel
<b>CMCG 1400 100</b> Matanzas, Cuba Independencia No. 56	<b>CRCS 950 100</b> Chicoutimi, Que. 4 Rue Larouche
<b>CMGE 1370 30</b> Cardenas, Cuba Genaro Sebater, Cespedes No. 180	<b>CRCT 840 5800</b> Toronto, Ont. 805 Davenport Road
<b>CMGF 1120 100</b> Matanzas, Cuba G. Betancourt No. 51	<b>CRCV 1100 1000</b> Vancouver, B. C. C. N. R. Station Bldg.
<b>CMGH 1040 15</b> Matanzas, Cuba B. Byrne No. 113	<b>CRCW 600 1000</b> Windsor, Ont. Guaranty Trust Bldg.
<b>CMGI 1420 30</b> Colon, Cuba Armando Linanza, Marti No. 35	<b>FQN 609 250</b> St. Pierre, Miq.
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<b>CMHW 810 100</b> Cienfuegos, Cuba Arguelles No. 200	<b>KABR 1420 100</b> Aberdeen, S. Dak. Aberdeen Broadcast Co.
<b>CMJC 1380 150</b> Camaguey, Cuba Cisneros y G. Gomez	<b>KADA 1200 100</b> Ada, Okla. C. C. Morris
<b>CMJE 1220 50</b> Camaguey, Cuba Manuel Fernandez, Hnos. Aguerre No. 2	<b>KALE 1300 500</b> Portland, Ore. Kale, Inc., New Heathman Hotel
<b>CMJF 1150 200</b> Camaguey, Cuba John L. Stowers, Republica No. 88	<b>KARK 890 250</b> Little Rock, Ark. N. S. L. Bldg.
<b>CMJG 1010 50</b> Camaguey, Cuba Maceo No. 1	<b>KASA 1210 100</b> Elk City, Okla. E. M. Woody, Casa Grande Hotel
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Jay P. Beard			Howard Shuman, Hotel Lincoln		
<b>KCMC 1420</b>	<b>100</b>	<b>Texarkana, Ark.</b>	<b>KFOX 1250 1000</b>	<b>1000</b>	<b>Long Beach, Calif.</b>
Box 865			220 E. Anaheim St.		
<b>KCRC 1370</b>	<b>100</b>	<b>Enid, Okla.</b>	<b>KFPL 1310 100</b>	<b>100</b>	<b>Dublin, Texas</b>
Enid Radiophone Co., Oxford Hotel			C. C. Baxter, Box 176		
<b>KCRJ 1310 100</b>	<b>100</b>	<b>Jerome, Ariz.</b>	<b>KFPM 1310 15</b>	<b>15</b>	<b>Greenville, Texas</b>
Chas. C. Robinson, Drawer D.			New Furniture Co.		
<b>KDB 1500 100</b>	<b>100</b>	<b>Santa Barbara, Calif.</b>	<b>KFPW 1210 100</b>	<b>100</b>	<b>Fort Smith, Ark.</b>
15-17 E. Haley St.			Goldman Hotel		
<b>KDFN 1440 500</b>	<b>500</b>	<b>Casper, Wyo.</b>	<b>KFPY 1340 1000</b>	<b>1000</b>	<b>Spokane, Wash.</b>
Donald Lewis Hathaway			Symons Bldg.		
<b>KDKA 980 50000</b>	<b>50000</b>	<b>Pittsburgh, Pa.</b>	<b>KFQD 780 250</b>	<b>250</b>	<b>Anchorage, Alaska</b>
Hotel Wm. Penn			411-4th Ave.		
<b>KDLR 1210 100</b>	<b>100</b>	<b>Devils Lake, N. D.</b>	<b>KFRC 610 1000</b>	<b>1000</b>	<b>San Francisco, Calif.</b>
KDLR, Inc., 1025 3rd Street			1000 Van Ness Ave.		
<b>KDYL 1290 1000</b>	<b>1000</b>	<b>Salt Lake City, Utah</b>	<b>KFR0 1370 100</b>	<b>100</b>	<b>Longview, Texas</b>
Ezra Thompson Bldg.			Voice of Longview		
<b>KECA 1430 1000</b>	<b>1000</b>	<b>Los Angeles, Calif.</b>	<b>KFRU 630 500</b>	<b>500</b>	<b>Columbia, Mo.</b>
1000 S. Hope St.			KFRU, Inc., 9th and Elm Sts.		
<b>KELD 1370 100</b>	<b>100</b>	<b>El Dorado, Ark.</b>	<b>KFS0 600 1000</b>	<b>1000</b>	<b>San Diego, Calif.</b>
T. H. Barton			U. S. Grant Hotel		
<b>KELW 780 500</b>	<b>500</b>	<b>Burbank, Calif.</b>	<b>KFSG 1120 1000</b>	<b>1000</b>	<b>Los Angeles, Calif.</b>
3702 Magnolia Park Blvd.			1100 Glendale Blvd.		
<b>KERN 1370 100</b>	<b>100</b>	<b>Bakersfield, Calif.</b>	<b>KFU0 550 500</b>	<b>500</b>	<b>St. Louis, Mo.</b>
Elk's Club			801 De Mun St.		
<b>KEX 1180 5000</b>	<b>5000</b>	<b>Portland, Ore.</b>	<b>KFVD 1000 250</b>	<b>250</b>	<b>Los Angeles, Calif.</b>
Oregonian Bldg.			E. L. Cord, 645 S. Mariposa		
<b>KFAB 770 10000</b>	<b>10000</b>	<b>Lincoln, Neb.</b>	<b>KFVS 1210 100</b>	<b>100</b>	<b>Cape Girardeau, Mo.</b>
Cornhusker Hotel			Oscar C. Hirsch, Box 275		
<b>KFAC 1300 1000</b>	<b>1000</b>	<b>Los Angeles, Calif.</b>	<b>KFWB 950 1000</b>	<b>1000</b>	<b>Hollywood, Calif.</b>
E. L. Cord, 645 So. Mariposa			Warner Bros. Motion Pictures, Inc.		
<b>KFBB 1280 1000</b>	<b>1000</b>	<b>Great Falls, Mont.</b>	<b>KFXD 1200 100</b>	<b>100</b>	<b>Nampa, Idaho</b>
Buttrey Broadcast., Inc.			Frank E. Hurt, 1024 12th Ave., S.		
<b>KFBI 1050 5000</b>	<b>5000</b>	<b>Abilene, Kans.</b>	<b>KFXJ 1200 100</b>	<b>100</b>	<b>Grand Jct., Colo.</b>
Box 345			Hillcrest Manor		
<b>KFBK 1310 100</b>	<b>100</b>	<b>Sacramento, Calif.</b>	<b>KFXM 1210 100</b>	<b>100</b>	<b>San Bernardino, Calif.</b>
Sacramento Bee			California Hotel		
<b>KFDM 560 500</b>	<b>500</b>	<b>Beaumont, Texas</b>	<b>KFXR 1310 100</b>	<b>100</b>	<b>Oklahoma City, Okla.</b>
Beaumont Hotel, P. O. Box 2950			541 Hightower Bldg.		
<b>KFDY 780 1000</b>	<b>1000</b>	<b>Brookings, S. D.</b>	<b>KFY0 1310 100</b>	<b>100</b>	<b>Lubbock, Texas</b>
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Albany Hotel			320 Broadway		
<b>KFEQ 680 2500</b>	<b>2500</b>	<b>St. Joseph, Mo.</b>	<b>KGA 1470 5000</b>	<b>5000</b>	<b>Spokane, Wash.</b>
Schneider Bldg.			1023 W. Riverside Ave.		
<b>KFGQ 1370 100</b>	<b>100</b>	<b>Boone, Iowa</b>	<b>KGAR 1370 100</b>	<b>100</b>	<b>Tucson, Ariz.</b>
924 W. 2nd St.			142 S. 6th Ave.		
<b>KFH 1300 1000</b>	<b>1000</b>	<b>Wichita, Kans.</b>	<b>KGB 1330 1000</b>	<b>1000</b>	<b>San Diego, Calif.</b>
124 1/2 S. Market St.			1012-1st St.		
<b>KFI 640 50000</b>	<b>50000</b>	<b>Los Angeles, Calif.</b>	<b>KGBU 900 500</b>	<b>500</b>	<b>Ketchikan, Alaska</b>
1000 S. Hope St.			Mile 5, Wards Cove Rd.		
<b>KFIO 1120 100</b>	<b>100</b>	<b>Spokane, Wash.</b>	<b>KGBX 1230 500</b>	<b>500</b>	<b>Springfield, Mo.</b>
213 Riverside Ave.			KGBX, Inc., C. of C. Bldg.		
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18 W. 1st St.			KGBZ Broadcasting Co., 715 Grant Ave.		
<b>KFJB 1200 100</b>	<b>100</b>	<b>Marshalltown, Iowa</b>	<b>KGCA 1270 100</b>	<b>100</b>	<b>Decorah, Iowa</b>
1603 W. Main St.			Charles W. Greenley, 201 Water St.		
<b>KFJI 1210 100</b>	<b>100</b>	<b>Klamath Falls, Ore.</b>	<b>KGCU 1240 250</b>	<b>250</b>	<b>Mandan, N. D.</b>
KFJI Broadcasters, Inc., Willard Hotel			404 W. Main St.		
<b>KFJM 1370 100</b>	<b>100</b>	<b>Grand Forks, N. D.</b>	<b>KGCX 1310 100</b>	<b>100</b>	<b>Wolf Point, Mont.</b>
University of North Dakota			E. E. Krebsbach.		
<b>KFJR 1300 500</b>	<b>500</b>	<b>Portland, Ore.</b>	<b>KGDE 1200 100</b>	<b>100</b>	<b>Fergus Falls, Minn.</b>
622 Lumbermen's Bldg.			C. L. Jaren		
<b>KFJZ 1370 100</b>	<b>100</b>	<b>Fort Worth, Texas</b>	<b>KGDM 1100 1000</b>	<b>1000</b>	<b>Stockton, Calif.</b>
Texas Hotel			E. F. Peffer, 42 S. Calif. St.		
<b>KFKA 880 500</b>	<b>500</b>	<b>Greeley, Colo.</b>	<b>KGDY 1340 250</b>	<b>250</b>	<b>Huron, S. D.</b>
Box 735			Voice of S. D., Inc., 347 Dakota Ave.		
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University of Kansas			Elmer G. Beehler, 109 W. 2nd St.		
<b>KFNF 890 500</b>	<b>500</b>	<b>Shenandoah, Iowa</b>	<b>KGER 1360 1000</b>	<b>1000</b>	<b>Long Beach, Calif.</b>
407 Sycamore St.			435 Pine Ave.		

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<b>KGfJ 1200 100</b> Los Angeles, Calif. Ben S. McGlashan, 1417 S. Figueroa	<b>KINY 610 250</b> Juneau, Alaska Northwest Advertising Co.
<b>KGFK 1500 100</b> Moorhead, Minn. 722 Center Ave.	<b>KIT 1310 100</b> Yakima, Wash. 109 1/2 E. Yakima Ave.
<b>KGFL 1370 100</b> Roswell, N. M. KGFL, Inc., 507 N. Main St.	<b>KIUJ 1310 100</b> Santa Fe, N. Mex. J. H. Speck
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<b>KGHI 1200 100</b> Little Rock, Ark. Arkansas Brdestg. Co., Marion Hotel	<b>KLO 1400 500</b> Ogden, Utah 405—25th St.
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<b>KGIW 1420 100</b> Alamosa, Colo. Leonard E. Wilson, 326 N. Commercial	<b>KLS 1440 250</b> Oakland, Calif. Warner Bros., 2201 Telegraph Ave.
<b>KGIX 1420 100</b> Las Vegas, Nev. J. M. Heaton, Box 556	<b>KLUF 1370 100</b> Galveston, Texas Geo. R. Clough, Buccaneer Hotel
<b>KGKB 1500 100</b> Tyler, Texas 115 S. College	<b>KLX 880 1000</b> Oakland, Calif. Tribune Tower
<b>KGKL 1370 100</b> San Angelo, Texas KGKL, Inc., St. Angelus Hotel	<b>KLZ 560 1000</b> Denver, Colo. Shirley-Savoy Hotel
<b>KGKO 570 500</b> Wichita Falls, Texas 9th St. & Indiana Ave.	<b>KMA 930 1000</b> Shenandoah, Iowa Earl E. May Seed & Nursery Co.
<b>KGKY 1500 100</b> Scottsbluff, Neb. Hilliard Co., Inc., 1517 1/2 Broadway	<b>KMAC 1370 100</b> San Antonio, Texas W. W. McAllister, Blue Bonnet Hotel
<b>KGMB 1320 1000</b> Honolulu, T. H. Honolulu Broadcasting Co., Box 2663	<b>KMBC 950 1000</b> Kansas City, Mo. Plekwick Hotel
<b>KGNF 1430 1000</b> North Platte, Neb. Great Plains Broadcasting Co., W. 12th St.	<b>KMED 1310 100</b> Medford, Ore. Mrs. W. J. Virgin, Sparta Bldg.
<b>KGNO 1340 250</b> Dodge City, Kans. First Natl. Bank Bldg.	<b>KMJ 580 1000</b> Fresno, Calif. Van Ness & Calaveras Sts.
<b>KGO 790 7500</b> San Francisco, Calif. 111 Sutter St.	<b>KMLB 1200 100</b> Monroe, La. Francis Hotel
<b>KGRS 1410 1000</b> Amarillo, Texas E. B. Gish, Bellaire Park	<b>KNMJ 740 1000</b> Clay Center, Neb. The M. M. Johnson Co.
<b>KGU 750 2500</b> Honolulu, T. H. Kapioianl at South St.	<b>KMO 1330 250</b> Tacoma, Wash. KMO, Inc., Hotel Winthrop
<b>KGVO 1260 1000</b> Missoula, Mont. Mosbys, Inc., 240 N. Higgins	<b>KMOX 1090 50000</b> St. Louis, Mo. 401 S. 12th St.
<b>KGW 620 1000</b> Portland, Ore. 325 Adler St.	<b>KMPC 710 500</b> Beverly Hills, Calif. 9631 Wilshire Blvd.
<b>KGy 1210 100</b> Olympia, Wash. KGY, Inc., 11th and Capitol Way	<b>KMTR 570 1000</b> Hollywood, Calif. KMTR Radio Corp., 915 N. Formosa Ave.
<b>KHJ 900 1000</b> Los Angeles, Calif. 7th at Bixel	<b>KNOW 1500 100</b> Austin, Texas Norwood Building
<b>KHQ 590 1000</b> Spokane, Wash. Sprague Ave. & Post St.	<b>KNX 1050 50000</b> Hollywood, Calif. West. Broadcast Co., Inc., 1558 N. Vine St.
<b>KHSL 950 250</b> Chico, Calif. Golden Empire Brdestg. Co.	<b>KOA 830 50000</b> Denver, Colo. General Electric Co., 1370 Krameria St.
<b>KICA 1370 100</b> Clovis, N. M. Southwest Broadcasting Co.	<b>KOAC 550 1000</b> Corvallis, Ore. Oregon State Agricultural College
<b>KID 1320 250</b> Idaho Falls, Idaho Park Ave. & Broadway	<b>KOB 1180 10000</b> Albuquerque, N. M. Albuquerque Journal, Box 667

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<b>KOH</b> 1380 500 Reno, Nev. 440 N. Virginia St.	<b>KSEI</b> 890 250 Pocatello, Idaho Radio Service Corp., 141 S. 6th Ave.
<b>KOIL</b> 1260 1000 Council Bluffs, Iowa Mona Motor Oil Co.	<b>KSL</b> 1130 50000 Salt Lake City, Utah Vermont Bldg.
<b>KOIN</b> 940 1000 Portland, Ore. KOIN, Inc., New Heathman Hotel	<b>KSLM</b> 1370 100 Salem, Ore. Oregon Radio, Inc.
<b>KOL</b> 1270 1000 Seattle, Wash. Northern Life Tower	<b>KSO</b> 1320 500 Des Moines, Iowa Des Moines Register & Tribune
<b>KOMA</b> 1480 5000 Oklahoma City, Okla Biltmore Hotel	<b>KSOO</b> 1110 2500 Sioux Falls, S. D. Sioux Falls Brdcast. Assn., Carpenter Hotel
<b>KOMO</b> 920 1000 Seattle, Wash. Skinner Bldg	<b>KSTP</b> 1460 10000 St. Paul, Minn. St. Paul Hotel
<b>KONO</b> 1370 100 San Antonio, Texas Mission Broadcast. Co., St. Anthony Hotel	<b>KSUN</b> 1200 100 Lowell, Ariz. Copper Electrical Co., Drawer C
<b>KOOS</b> 1200 100 Marshfield, Ore. H. H. Hanseth, Hall Bldg.	<b>KTAB</b> 560 1000 San Francisco, Calif. 5th & Mission Sts.
<b>KORE</b> 1420 100 Eugene, Ore. 733 Willamette St.	<b>KTAR</b> 620 1000 Phoenix, Ariz. 116 N. Central Ave.
<b>KOTN</b> 1500 100 Pine Bluff, Ark. Universal Brdcast. Corp., Hotel Pines	<b>KTAT</b> 1240 1000 Fort Worth, Texas Ft. Worth Natl. Bank Bldg.
<b>KOY</b> 1390 500 Phoenix, Ariz. 621 N. Central Ave.	<b>KTBS</b> 1450 1000 Shreveport, La. Box 1642
<b>KPAC</b> 1260 500 Port Arthur, Texas Port Arthur College	<b>KTFI</b> 1240 1000 Twin Falls, Idaho Radio Broadcasting Corp., Box 521
<b>KPCB</b> 710 100 Seattle, Wash. Tower Bldg.	<b>KTHS</b> 1060 10000 Hot Springs, Ark. Chamber of Commerce, Box 886
<b>KPJM</b> 1500 100 Prescott, Ariz. Scott & Sturm, P. O. Box 782	<b>KTM</b> 780 500 Los Angeles, Calif. 214 S. Vermont St.
<b>KPLC</b> 1500 100 Lake Charles, La. Calcasteu Brdcast. Co.	<b>KTRB</b> 740 250 Modesto, Calif. McTammany & Bates
<b>KPO</b> 680 50000 San Francisco, Calif. 111 Sutter St.	<b>KTRH</b> 1290 1000 Houston, Texas KTRH Broadcasting Co., Rice Hotel
<b>KPOF</b> 880 500 Denver, Colo. Pillar Of Fire, 1845 Champa St.	<b>KTSA</b> 550 1000 San Antonio, Texas Southwest Broadcasting Co., Plaza Hotel
<b>KPPC</b> 1210 50 Pasadena, Calif. 585 E. Colorado St.	<b>KTSM</b> 1310 100 El Paso, Texas P. O. Box 1976
<b>KPQ</b> 1500 100 Wenatchee, Wash. KPQ Bldg.	<b>KTUL</b> 1400 500 Tulsa, Okla. National Bank of Tulsa Bldg.
<b>KPRC</b> 920 1000 Houston, Texas 2204 Shell Bldg.	<b>KTW</b> 1220 1000 Seattle, Wash. 77th Ave. & Spring St.
<b>KQV</b> 1380 500 Pittsburgh, Pa. KQV Broadcasting Co., Investment Bldg.	<b>KUJ</b> 1370 100 Walla Walla, Wash. KUJ, Inc., Marcus Whitman Hotel
<b>KQW</b> 1010 1000 San Jose, Calif. 87 E. San Antonio St.	<b>KUMA</b> 1420 100 Yuma, Ariz. Dr. A. H. Schermann, Box 267
<b>KRE</b> 1370 100 Berkeley, Calif. 2345 Channing Way	<b>KUOA</b> 1260 1000 Fayetteville, Ark. KUOA, Inc., Washington Hotel
<b>KREG</b> 1500 100 Santa Ana, Calif. 3rd & Sycamore Sts.	<b>KUSD</b> 890 500 Vermillion, S. D. University of South Dakota
<b>KRGV</b> 1260 500 Weslaco, Texas KRGV Inc.	<b>KVI</b> 570 1000 Tacoma, Wash. W. R. Rust Bldg.
<b>KRKD</b> 1120 1000 Los Angeles, Calif. 815 Spring Arcade Bldg.	<b>KVL</b> 1370 100 Seattle, Wash. KVL, Inc., 5th and Virginia St.
<b>KRKO</b> 1370 50 Everett, Wash. Lee Mudgett, 2814 Rucker Ave.	<b>KVOA</b> 1260 500 Tucson, Ariz. Cons. Natl. Bank Bldg.
<b>KRLC</b> 1420 100 Lewiston, Idaho H. E. Studebaker	<b>KVOD</b> 920 500 Denver, Colo. Continental Oil Bldg.
<b>KRLD</b> 1040 10000 Dallas, Texas KRLD Radio Corp., Adolphus Hotel	<b>KVOO</b> 1140 25000 Tulsa, Okla. Wright Bldg.
<b>KRMD</b> 1310 100 Shreveport, La. Jefferson Hotel	<b>KVOR</b> 1270 1000 Colorado Spg., Colo. Mining Exchange Bldg.
<b>KRNT</b> 1320 500 Des Moines, Iowa Des Moines Register Tribune	<b>KVOS</b> 1200 100 Bellingham, Wash. 115 W. Magnolia St.
<b>KROW</b> 930 1000 Oakland, Calif. 1803 Franklin St.	<b>KWBG</b> 1420 100 Hutchinson, Kans. W. B. Greenwald
<b>KRSC</b> 1120 100 Seattle, Wash. Radio Sales Corp., Washington Athletic Club	<b>KWEA</b> 1210 100 Shreveport, La. Spring & Fannin Sts.
<b>KSAC</b> 580 500 Manhattan, Kans. State College of Agriculture	<b>KWFF</b> 1210 100 Hilo, Hawaii Hfo Broadcasting Co., Ltd.
<b>KSCJ</b> 1330 1000 Sioux City, Iowa Perkins Bros. Co., 415 Douglas St.	<b>KWG</b> 1200 100 Stockton, Calif. Medico-Dental Bldg.
<b>KSD</b> 550 1000 St. Louis, Mo. 12th & Olive Sts.	<b>KWJJ</b> 1040 500 Portland, Ore. 622 S. W. Salmon St.



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<b>KWK</b>	1350	1000	St. Louis, Mo.
Thomas Patrick, Inc., Hotel Chase			
<b>KWKC</b>	1370	100	Kansas City, Mo.
39th & Main Sts.			
<b>KWKH</b>	1100	10000	Shreveport, La.
Spring & Pannin Sts.			
<b>KWLC</b>	1270	100	Decorah, Iowa
Luther College			
<b>KWSC</b>	1220	1000	Pullman, Wash.
State College of Washington			
<b>KWTN</b>	1210	100	Watertown, S. D.
Citizens Bank Bldg.			
<b>KWTO</b>	560	1000	Springfield, Mo.
KGBX Inc.			
<b>KWYO</b>	1370	100	Sheridan, Wyo.
Big Horn Brdcastg. Co.			
<b>KXA</b>	760	250	Seattle, Wash.
American Radio Tel. Co., 218 Bigelow Bldg.			
<b>KXL</b>	1420	100	Portland, Ore.
KXL Broadcasters, Multnomah Hotel			
<b>KXO</b>	1500	100	El Centro, Calif.
F. M. Bowles, Box 140			
<b>KXRO</b>	1310	100	Aberdeen, Wash.
KXRO, Inc., Hotel Moreck.			
<b>KXYZ</b>	1440	1000	Houston, Texas
Fannin & Rusk Sts.			
<b>KYA</b>	1230	1000	San Francisco, Calif.
988 Market St.			
<b>KYW</b>	1020	10000	Philadelphia, Pa.
1622 Chestnut Street			
<b>NAA</b>	690	1000	Arlington, Va.
United States Navy			
<b>RDN</b>	680	500	San Salvador, E. S.
Republic of El Salvador			
<b>TGW</b>	565	10000	Guatemala, Gua.
Gobierno de Guatemala			
<b>TGX</b>	1400	150	Guatemala City
<b>TICR</b>	912	75	San Jose, C. R.
Government of Costa Rica			
<b>TIFB</b>	714	30	San Jose, C. R.
<b>TIGA</b>	1014	30	Cartago, C. R.
<b>TIGP</b>	800	75	San Jose, C. R.
Gonzalo Pinto H. Apt. 225			
<b>TIRCA</b>	1100	500	San Jose, C. R.
Perry Girton, Apt. 225			
<b>TISO</b>	550	250	San Jose, C. R.
P. F. Saborio, Apt. 1354			
<b>TIVL</b>	835	30	San Jose, C. R.
<b>VAS</b>	685	2000	Glace Bay, N. S.
Canadian Marconi Co., Ltd.			
<b>VESEK</b>	1185	10	Montmagny, Que.
J. A. Marquis, P. O. Box 52			
<b>VOAC</b>	1065	40	St. John's, Nfld.
<b>VOAS</b>	940	100	St. John's N. F.
Ayre & Sons, Ltd., Water St.			
<b>VOGY</b>	840	400	St. John's, N. F.
Newfoundland Hotel			
<b>VONF</b>	950	5000	St. John's N. F.
Dominion Broadcasting Co., Ltd., Box 135			
<b>VOWR</b>	681	500	St. John's, N. F.
Wesley United Church, Box 157			
<b>WAAB</b>	1410	500	Boston, Mass.
21 Brookline Ave.			
<b>WAAF</b>	920	500	Chicago, Ill.
Palmer House			
<b>WAAT</b>	940	500	Jersey City, N. J.
Bremer Broadcasting Corp., 50 Journal Sq.			

<b>WAAW</b>	660	500	Omaha, Neb.
Omaha Grain Exchange			
<b>WABC</b>	860	50000	New York, N. Y.
485 Madison Ave.			
<b>WABI</b>	1200	100	Bangor, Maine
First Universalist Society Park St.			
<b>WABY</b>	1370	100	Albany, N. Y.
Strand Theatre Bldg.			
<b>WACO</b>	1420	100	Waco, Texas
Amicable Bldg.			
<b>WADC</b>	1320	1000	Akron, Ohio
Allen T. Simmons, P. O. Box 29			
<b>WAGF</b>	1370	100	Dothan, Ala.
Houston Hotel			
<b>WAGM</b>	1420	100	Presque Isle, Me.
Aroostook Broadcasting Corp., Main St.			
<b>WAIM</b>	1200	100	Anderson S. C.
Wilton E. Hall			
<b>WAIU</b>	640	500	Columbus, Ohio
Deshier-Wallick Hotel			
<b>WALA</b>	1380	500	Mobile, Ala.
Battle House			
<b>WALR</b>	1210	100	Zanesville, Ohio
First Trust & Savs. Bank Bldg.			
<b>WAML</b>	1310	100	Laurel, Miss.
Southland Radio Corp., Box 26			
<b>WAPI</b>	1140	5000	Birmingham, Ala.
Protective Life Bldg.			
<b>WARD</b>	1400	500	Brooklyn, N. Y.
427 Flatbush Ave., Ext.			
<b>WASH</b>	1270	500	Grand Rapids, Mich.
Grand Rapids Natl. Bank Bldg.			
<b>WATR</b>	1190	100	Waterbury, Conn.
WATR Co. Inc. 47 Grand St.			
<b>WAVE</b>	940	1000	Louisville, Ky.
WAVE, Inc., 1525 Brown Hotel			
<b>WAWZ</b>	1350	500	Zarephath, N. J.
Pillar of Fire.			
<b>WAZL</b>	1420	100	Hazleton, Pa.
Hazleton Broadcasting Service, Inc.			
<b>WBAA</b>	890	1000	West Lafayette, Ind.
Purdue University			
<b>WBAL</b>	1060	10000	Baltimore, Md.
Lexington Bldg., Amer. Radio News Corp.			
<b>WBAP</b>	800	50000	Fort Worth, Texas
Blackstone Hotel			
<b>WBAX</b>	1210	100	Wilkes-Barre, Pa.
John H. Stenger, Jr., 70 S. Main St.			
<b>WBBC</b>	1400	500	Brooklyn, N. Y.
552-54 Atlantic Ave.			
<b>WBBL</b>	1210	100	Richmond, Va.
1627 Monument Ave.			
<b>WBBM</b>	770	50000	Chicago, Ill.
WBBM Broadcasting Corp., Wrigley Bldg.			
<b>WBBR</b>	1300	1000	Brooklyn, N. Y.
124 Columbia Heights			
<b>WBBZ</b>	1200	100	Ponca City, Okla.
C. L. Carrell, 407 W. South Ave.			
<b>WBCM</b>	1410	500	Bay City, Mich.
James E. Davidson, Hotel Wenonah			
<b>WBEN</b>	900	1000	Buffalo, N. Y.
WBEN, Inc., Hotel Statler			
<b>WBEO</b>	1310	100	Marquette, Mich.
146 W. Washington St.			
<b>WBIG</b>	1440	500	Greensboro, N. C.
Box 408			
<b>WBNO</b>	1200	100	New Orleans, La.
Hotel New Orleans			
<b>WBNS</b>	1430	500	Columbus, O.
33 N. High St.			
<b>WBNX</b>	1350	250	New York, N. Y.
260 E. 161st St.			

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<b>WBOQ</b> 860 50000 New York, N. Y. Atlantic Broadcasting Corp.	<b>WCRW</b> 1210 100 Chicago, Ill. Clinton R. White, 2756 Pine Grove Ave.
<b>WBOW</b> 1310 100 Terre Haute, Ind. Banks of Wabash, Inc., 19 Beach Block	<b>WCSC</b> 1360 500 Charleston, S. C. Francis Marion Hotel
<b>WBRB</b> 1210 100 Red Bank, N. J. 63 Broad St.	<b>WCSH</b> 940 1000 Portland, Me. 579 Congress St.
<b>WBRC</b> 930 1000 Birmingham, Ala. Bankhead Hotel	<b>WDAE</b> 1220 1000 Tampa, Fla. Tampa Times Co., Tampa Terrace
<b>WBRE</b> 1310 100 Wilkes-Barre, Pa. Louis G. Baltimore, 16 N. Main	<b>WDAF</b> 610 1000 Kansas City, Mo. 1729 Grand Ave.
<b>WBSO</b> 920 500 Babson Park, Mass. Drawer B	<b>WDAG</b> 1410 1000 Amarillo, Texas Box 306
<b>WBT</b> 1080 5000 Charlotte, N. C. Station WBT, Inc., Wilder Bldg.	<b>WDAH</b> 1310 100 El Paso, Texas Box 1976
<b>WBTM</b> 1370 100 Danville, Va. Miller Bldg.	<b>WDAS</b> 1370 100 Philadelphia, Pa. WDAS Brdcastg. Co., Inc., Broadwood Hotel
<b>WBZ</b> 990 50000 Boston, Mass. Hotel Bradford	<b>WDAY</b> 940 1000 Fargo, N. D.
<b>WBZA</b> 990 1000 Springfield, Mass. Hotel Kimball	<b>WDAY</b> , Inc., Black Bldg., 118 Broadway
<b>WCAC</b> 600 500 Storrs, Conn. Connecticut State College	<b>WDBJ</b> 930 1000 Roanoke, Va. Times World Corp., P. O. Box 150
<b>WCAD</b> 1220 500 Canton, N. Y. St. Lawrence University	<b>WDBO</b> 580 1000 Orlando, Fla. 555 N. Orange Ave.
<b>WCAE</b> 1220 1000 Pittsburgh, Pa. 6th Ave. & Smithfield St.	<b>WDEL</b> 1120 250 Wilmington, Del. WDEL, Inc., 10th and King Sts.
<b>WCAL</b> 1250 1000 Northfield, Minn. St. Olaf College	<b>WDEV</b> 550 500 Waterbury, Vt. Harry C. Whitehill, Stowe St.
<b>WCAM</b> 1280 500 Camden, N. J. City of Camden, City Hall	<b>WDGY</b> 1180 1000 Minneapolis, Minn. Dr. Geo. W. Young, 909 W. Broadway
<b>WCAO</b> 600 500 Baltimore, Md. 811 W. Lanvale St.	<b>WDNC</b> 1500 100 Durham, N. C. Washington Duke Hotel
<b>WCAP</b> 1280 500 Asbury Park, N. J. Convention Hall	<b>WDOD</b> 1280 1000 Chattanooga, Tenn. WDOD Broadcasting Corp., Hotel Patten
<b>WCAT</b> 1200 100 Rapid City, S. D. South Dakota State School of Mines	<b>WDRC</b> 1330 1000 Hartford, Conn. WDRS, Inc., Corning Bldg., 11 Asylum St.
<b>WCAU</b> 1170 50000 Philadelphia, Pa. WCAU Broadcasting Co., 1622 Chestnut	<b>WDSU</b> 1250 1000 New Orleans, La. WDSU Inc., Hotel Monteleone
<b>WCAX</b> 1200 100 Burlington, Vt. 203 College St.	<b>WDZ</b> 1070 100 Tuscola, Ill. James L. Bush, Star Store Bldg.
<b>WCAZ</b> 1070 100 Carthage, Ill. 97 1/2 Adams St.	<b>WEAF</b> 660 50000 New York, N. Y. 30 Rockefeller Plaza
<b>WCBA</b> 1440 500 Allentown, Pa. B. Bryan Musselman, 39-41 10th St.	<b>WEAN</b> 780 500 Providence, R. I. New Crown Hotel
<b>WCBD</b> 1080 5000 Waukegan, Ill. 75 E. Wacker Drive, Chicago	<b>WEBC</b> 1290 1000 Superior, Wis. Spaulding Hotel, Duluth, Minn.
<b>WCBM</b> 1370 100 Baltimore, Md. Keth Theatre Bldg.	<b>WEBQ</b> 1210 100 Harrisburg, Ill. 100 E. Poplar St.
<b>WCBS</b> 1420 100 Springfield, Ill. WCBS, Inc., 208 1/2 S. 5th.	<b>WEBR</b> 1310 100 Buffalo, N. Y. Howell Broadcasting Co., Inc., 735 Main
<b>WCCO</b> 810 50000 Minneapolis, Minn. Niocollet Hotel	<b>WEDC</b> 1210 100 Chicago, Ill. Emil Denmark, 3860 Ogden Ave.
<b>WCFL</b> 970 1500 Chicago, Ill. 666 Lake Shore Drive	<b>WEED</b> 1420 100 Rocky Mount, N. C. Wm. Avera Wynne, Box 221
<b>WCHS</b> 580 500 Charleston, W. Va. WOBV, Inc., Ruffner Hotel	<b>WEEI</b> 590 1000 Boston, Mass. 182 Tremont St.
<b>WCKY</b> 1490 5000 Covington, Ky. 6th & Madison Sts.	<b>WEUU</b> 830 1000 Reading, Pa. Berks Broadcasting Co., 533 Penn
<b>WCLO</b> 1200 100 Janesville, Wis. 200 E. Milwaukee St.	<b>WEHC</b> 1420 100 Charlottesville, Va. 7th & Main Sts.
<b>WCLS</b> 1310 100 Joliet, Ill. WCLS, Inc., 301 E. Jefferson St.	<b>WEHS</b> 1420 100 Cicero, Ill. WEHS, Inc., 6138 W. Cermak Rd.
<b>WCMI</b> 1310 100 Ashland, Ky. Ashland Broadcasting Co.	<b>WELL</b> 1420 100 Battle Creek, Mich. Enquirer News, 38 W. State St.
<b>WCNW</b> 1500 100 Brooklyn, N. Y. Arthur Fiske, 1525 Pitkin Ave.	<b>WENR</b> 870 5000 Chicago, Ill. 222 N. Bank Drive
<b>WCOA</b> 1340 500 Pensacola, Fla. San Carlos Hotel	<b>WESG</b> 850 1000 Elmira, N. Y. Mark Twain Hotel
<b>WCOC</b> 880 500 Meridian, Miss. Box 603	<b>WEVD</b> 1300 1000 New York, N. Y. Jewish Daily Forward, Hotel Claridge
<b>WCOL</b> 1210 100 Columbus, Ohio WCOL Inc., 30 N. High St.	<b>WEW</b> 760 1000 St. Louis, Mo. St. Louis University, 221 N. Grand Blvd.
	<b>WEXL</b> 1310 50 Royal Oak, Mich. 212 W. 6th St.

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<b>WFAA</b> 800 50000 Dallas, Texas Baker Hotel
<b>WFAB</b> 1300 1000 New York, N. Y. Fifth Avenue Broadcasting Corp.
<b>WFAM</b> 1200 100 South Bend, Ind. South Bend Tribune, 225 W. Colfax Ave.
<b>WFAS</b> 1210 100 White Plains, N. Y. Hotel Roger Smith
<b>WFBC</b> 1300 1000 Greenville, S. C. Imperial Hotel
<b>WFBE</b> 1200 100 Cincinnati, Ohio WFBE, Inc., Hotel Sinton
<b>WFBG</b> 1310 100 Altoona, Pa. Gable Broadcasting Co. 12th Av. & 13th St.
<b>WFBL</b> 1360 1000 Syracuse, N. Y. Onondaga Hotel
<b>WFBM</b> 1230 1000 Indianapolis, Ind. 48 Monument Circle
<b>WFBR</b> 1270 500 Baltimore, Md. 7 St. Paul St.
<b>WFDF</b> 1310 100 Flint, Mich. Union Industrial Bldg.
<b>WFEA</b> 1340 500 Manchester, N. H. Carpenter Hotel
<b>WFIL</b> 560 1000 Philadelphia, Pa. WFIL Broadcasting Co., 801 Market
<b>WFLA</b> 620 1000 Clearwater, Fla. Box 119
<b>WGAL</b> 1500 100 Lancaster, Pa. WGAL, Inc., 8 W. King St.
<b>WGAR</b> 1450 500 Cleveland, Ohio WGAR Broadcasting Co., Hotel Statler
<b>WGBB</b> 1210 100 Freeport, N. Y. H. H. Carman, 64 S. Grove St.
<b>WGBF</b> 630 500 Evansville, Ind. 519 Vine St.
<b>WGBI</b> 880 500 Scranton, Pa. 116 N. Washington Ave.
<b>WGCM</b> 1210 100 Mississippi City Great Southern Golf Club
<b>WGES</b> 1360 500 Chicago, Ill. 128 N. Crawford Ave.
<b>WGH</b> 1310 100 Newport News, Va. 2813 Washington Ave.
<b>WGL</b> 1370 100 Fort Wayne, Ind. F. C. Zieg, 213 W. Main St.
<b>WGN</b> 720 50000 Chicago, Ill. WGN, Inc., Tribune Tower
<b>WGNY</b> 1210 100 Chester, N. Y. Peter Goelet (Orange County)
<b>WGPC</b> 1420 100 Albany, Ga. Rylander Theatre Bldg.
<b>WGR</b> 550 1000 Buffalo, N. Y. Rand Bldg.
<b>WGST</b> 890 500 Atlanta, Ga. Ansley Hotel
<b>WGY</b> 790 50000 Schenectady, N. Y. I River Road
<b>WHA</b> 940 2500 Madison, Wis. University of Wisconsin
<b>WHAM</b> 1150 50000 Rochester, N. Y. 100 Carlson Road
<b>WHAS</b> 820 50000 Louisville, Ky. 300 W. Liberty St.
<b>WHAT</b> 1310 100 Philadelphia, Pa. Public Ledger Bldg.
<b>WHAZ</b> 1300 500 Troy, N. Y. 8th St.
<b>WHB</b> 860 1000 Kansas City, Mo. WHB Broadcasting Co., Scarritt Bldg.
<b>WHBC</b> 1200 100 Canton, Ohio Edw. P. Graham, 319 Tusc. St., W.

<b>WHBF</b> 1210 100 Rock Island, Ill. Hotel Harms
<b>WHBI</b> 1250 1000 Newark, N. J. 100 Shipman St.
<b>WHBL</b> 1410 500 Sheboygan, Wis. Press Publishing Co., Press Bldg.
<b>WHBQ</b> 1370 100 Memphis, Tenn. Brdestg. Sta. WNBQ, Inc. Hotel Claridge
<b>WHBU</b> 1210 100 Anderson, Ind. Anderson Broadcasting Corp., Box 816
<b>WHBY</b> 1200 100 Green Bay, Wis. WHBY, Inc., Bellin Bldg.
<b>WHDF</b> 1370 100 Calumet, Mich. Box 643
<b>WHDH</b> 830 1000 Boston, Mass. Matheson Radio Co., 62 Boylston
<b>WHDL</b> 1420 100 Olean, N. Y. Exchange Natl. Bank Bldg.
<b>WHEB</b> 740 250 Portsmouth, N. H. Box 522, 39 Congress St.
<b>WHEC</b> 1430 500 Rochester, N. Y. WHEC, Inc., 40 Franklin St.
<b>WHEF</b> 1500 100 Kosciusko, Miss. 417 W. Adams St.
<b>WHFC</b> 1420 100 Cicero, Ill. WHFC, Inc., 6138 W. Cermak Road
<b>WHIO</b> 1260 1000 Dayton, Ohio 39 S. Ludlow St.
<b>WHIS</b> 1410 250 Bluefield, W. Va. Bland St.
<b>WHJB</b> 620 250 Greensburg, Pa. Penn-Albert Hotel, 128 Pa. Ave.
<b>WHK</b> 1390 1000 Cleveland, Ohio 1311 Terminal Tower
<b>WHN</b> 1010 1000 New York, N. Y. 1540 Broadway
<b>WHO</b> 1000 50000 Des Moines, Iowa Central Brdestg. Co., 914 Walnut St.
<b>WHOM</b> 1450 250 Jersey City, N. J. 2870 Boulevard
<b>WHP</b> 1430 500 Harrisburg, Pa. WHP Inc., 216 Locust St.
<b>WIBA</b> 1280 1000 Madison, Wis. 111 King St.
<b>WIBG</b> 970 100 Glenside, Pa. WIBG, Inc., Keswick Bldg.
<b>WIBM</b> 1370 100 Jackson, Mich. WIBM, Inc., 306 W. Michigan Ave.
<b>WIBU</b> 1210 100 Poynette, Wis. Wm. C. Forrest, R. F. D. No. 3
<b>WIBW</b> 580 1000 Topeka, Kans. 11th & Topeka Blvd.
<b>WIBX</b> 1200 100 Utica, N. Y. WIBX, Inc., 1st Natl. Bank Bldg.
<b>WICC</b> 600 500 Bridgeport, Conn. Southern Conn. Broadcasting Corp.
<b>WIL</b> 1200 100 St. Louis, Mo. Melbourne Hotel
<b>WILL</b> 580 1000 Urbana, Ill. University of Illinois
<b>WILM</b> 1420 100 Wilmington, Del. 920 King St.
<b>WIND</b> 560 1000 Gary, Ind. 504 Broadway
<b>WINS</b> 1180 1000 New York, N. Y. 110 E. 58th St., Hearst Radio, Inc.
<b>WIOD</b> 1300 1000 Miami, Fla. Herald Bldg., Metropolis Pub Co.
<b>WIP</b> 610 500 Philadelphia, Pa. Gimbel Bldg.
<b>WIRE</b> 1400 500 Indianapolis, Ind. 540 N. Meridian St.

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<b>WIS</b> 1010 1000 Columbia, S. C. Station WIS, Inc., 1811 Main St.	<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> 1060 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. 159—4th Ave. No. WLAC Inc.
<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. WLBF Broadcasting Co., Huron Bldg
<b>WJBK</b> 1500 100 Detroit, Mich. 6559 Hamilton Ave.	<b>WLBL</b> 900 2500 Stevens Point, Wis. Wisconsin Dept. of Agriculture and Markets
<b>WJBL</b> 1200 100 Decatur, Ill. Gushard Bldg.	<b>WLBZ</b> 620 500 Bangor, Me. Maine Broadcasting Co., Inc., 100 Main
<b>WJBO</b> 1420 100 Baton Rouge, La. Baton Rouge Broadcasting Co., Inc.	<b>WLEU</b> 1420 100 Erie, Pa. Leo J. Omellan
<b>WJBW</b> 1200 100 New Orleans, La. C. C. Carlson, Godchaux Bldg.	<b>WLLH</b> 1370 100 Lowell, Mass. Albert S. Moffat, Box D
<b>WJBY</b> 1210 100 Gadsden, Ala. Gadsden Broadcasting Co., 112 N. 8th St.	<b>WLNH</b> 1310 100 Lenoir, 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 Brooklyn, N. Y. 305 Washington St.
<b>WJIM</b> 1210 100 Lansing, Mich. Capital City Brdcastg. 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 50000 Cincinnati, Ohio 1329 Arlington St.
<b>WJMS</b> 1420 100 Ironwood, Mich. WJMS, Inc., St. James Hotel	<b>WLWL</b> 1100 5000 New York, N. Y. 415 W. 69th St.
<b>WJR</b> 750 10000 Detroit, Mich. WJR, Inc., Fisher Bldg.	<b>WMAL</b> 630 250 Washington, D. C. 712—11th St., N. W.
<b>WJSV</b> 1450 10000 Washington, D. C. Earle Building	<b>WMAQ</b> 670 50000 Chicago, Ill. Merchandise Mart
<b>WJTL</b> 1370 100 Atlanta, Ga. Oglethorpe University	<b>WMAS</b> 1420 100 Springfield, Mass. WMAS, Inc., 70 Chestnut St.
<b>WJW</b> 1210 100 Akron, Ohio WJW, Inc., 418 High St.	<b>WMAZ</b> 1180 1000 Macon, Ga. 211 Cotton Ave.
<b>WJZ</b> 760 50000 New York, N. Y. 30 Rockefeller Plaza	<b>WMBC</b> 1420 100 Detroit, Mich. 7310 Woodward Ave.
<b>WKAQ</b> 1240 1000 San Juan, P. R. Radio Corp. of Porto Rico, P. O. Box 358	<b>WMBD</b> 1440 500 Peoria, Ill. 114 N. Madison St.
<b>WKAR</b> 1040 1000 East Lansing, Mich. Michigan State College	<b>WMBG</b> 1210 100 Richmond, Va. 914 W. Broad St.
<b>WKBB</b> 1500 100 East Dubuque, Ill. Richard W. Hoffman	<b>WMBH</b> 1420 100 Joplin, Mo. 1334 Roosevelt St.
<b>WKBH</b> 1380 1000 LaCrosse, Wis. WKBH, Inc., 409 Main St.	<b>WMBI</b> 1080 5000 Chicago, Ill. 153 Institute Place
<b>WKBI</b> 1420 100 Cicero, Ill. WKBI Inc., 6188 W. Cermak Road	<b>WMBO</b> 1310 100 Auburn, N. Y. WMBO, Inc. Metcalf Bldg.
<b>WKBN</b> 570 500 Youngstown, Ohio 17 N. Champion St.	<b>WMBQ</b> 1500 100 Brooklyn, N. Y. Paul J. Golhofer, 95 Leonard St.
<b>WKBO</b> 1200 100 Harrisburg, Pa. Penn Harris Hotel	<b>WMBR</b> 1370 100 Jacksonville, Fla. F. J. Reynolds, Carling Hotel
<b>WKBV</b> 1500 100 Richmond, Ind. Knox Radio Corp., Box 308	<b>WMC</b> 780 1000 Memphis, Tenn. WMC, Inc., Hotel Gayoso
<b>WKBW</b> 1480 5000 Buffalo, N. Y. Rand Bldg.	<b>WMCA</b> 570 500 New York, N. Y. 1697 Broadway
<b>WKBZ</b> 1500 100 Muskegon, Mich. Karl L. Ashbacher & Sons	<b>WMEX</b> 1500 100 Boston, Mass. The Northern Corp., Hotel Manger
<b>WKEU</b> 1500 100 Griffin, Ga. Radio Station WKEU, 906 Hill St.	<b>WMFD</b> 1370 100 Wilmington, N. C. Richard Austin Dunlea
<b>WKJC</b> 1200 100 Lancaster, Pa. 16 W. King St.	<b>WMFE</b> 1380 250 New Britain, Conn. William J. Sanders

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**WMFF 1310 100 Plattsburg, N. Y.**  
 Plattsburg Broadcasting Corp.  
**WMFG 1210 100 Hibbing, Minn.**  
 Head of the Lakes Brdsg. Co.  
**WMFH 1120 500 Boston, Mass.**  
 Joseph M. Kirby  
**WMFI 900 500 New Haven, Conn.**  
 Patrick J. Goode  
**WMFJ 1420 100 Daytona Beach, Fla.**  
 W. Wright Esch  
**WMFN 1210 100 Clarksdale, Miss.**  
 Attala Brdsg. Corp.  
**WMFO 1370 100 Decatur, Ala.**  
 James R. Doss, Jr.  
**WMMN 890 250 Fairmont, W. Va.**  
 West Va. Brdsg. Corp., 325 Main St.  
**WMPC 1200 100 Lapeer, Mich.**  
 81 Liberty St.  
**WMT 600 1000 Cedar Rapids, Iowa**  
 Hotel Montrose  
**WNAC 1230 1000 Boston, Mass.**  
 21 Brookline Ave.  
**WNAD 1010 1000 Norman, Okla.**  
 University of Oklahoma  
**WNAX 570 1000 Yankton, S. D.**  
 House of Gurney, Inc., 2nd and Capital St.  
**WNB 1500 100 Binghamton, N. Y.**  
 Arlington Hotel  
**WNBH 1310 100 New Bedford, Mass.**  
 251 Union St.  
**WNBZ 1430 500 Memphis, Tenn.**  
 Memphis Broadcasting Co., Hotel DeVoy  
**WNBX 1260 1000 Springfield, Vt.**  
 WNBX Broadcasting Corp., 39 Main St.  
**WNBZ 1290 100 Saranac Lake, N. Y.**  
 Smith & Mace, 70 Broadway  
**WNEI 1290 500 San Juan, P. R.**  
 Box 1282  
**WNEW 1250 1000 Newark, N. J.**  
 Wodaam Corp., 1060 Broad  
**WNOX 560 1000 Knoxville, Tenn.**  
 WNOX, Inc., Hotel Andrew Johnson  
**WNRA 1420 100 Muscle Shoals, Ala.**  
 Kathryn Jones, P. O. Box 486, Sheffield, Ala.  
**WNYC 810 1000 New York, N. Y.**  
 Centre & Duane Sts.  
**WOAI 1190 50000 San Antonio, Texas**  
 Southland Industries, Inc., 1038 Navarro  
**WOC 1370 100 Davenport, Iowa**  
 Palmer School of Chiropractic  
**WOCL 1210 50 Jamestown, N. Y.**  
 A. E. Newton, 840 N. Main St.  
**WOI 640 5000 Ames, Iowa**  
 Iowa State College  
**WOKO 1430 500 Albany, N. Y.**  
 WOKO, Inc., Hotel Ten Eyck  
**WOL 1310 100 Washington, D. C.**  
 American Broadcasting Co., Annapolis Hotel  
**WOMT 1210 100 Manitowoc, Wis.**  
 Francis M. Kadow, Box 326  
**WOOD 1270 500 Grand Rapids, Mich.**  
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**WOPI 1500 100 Bristol, Tenn.**  
 22nd & State Sts.  
**WOR 710 50000 Newark, N. J.**  
 147 Market St.  
**WORC 1280 500 Worcester, Mass.**  
 Alfred F. Kleindienst, 60 Franklin St.  
**WORK 1320 1000 York, Pa.**  
 York Broadcasting Co., 15 S. Beaver St.  
**WOS 630 500 Jefferson City, Mo.**  
 State Highway Control, Capitol Bldg.

**WOSU 570 750 Columbus, Ohio**  
 Ohio State University  
**WOV 1130 1000 New York, N. Y.**  
 132 West 43rd St.  
**WOW 590 1000 Omaha, Neb.**  
 Woodmen of the World, 4th and Farnam  
**WOWO 1160 10000 Fort Wayne, Ind.**  
 Main Auto Supply Co., 213 W. Main  
**WPAD 1420 100 Paducah, Ky.**  
 2201 Broadway  
**WPAX 1210 100 Thomasville, Ga.**  
 H. Wimpy, 135 E. Jackson St.  
**WPAY 1370 100 Portsmouth, Ohio**  
 F. P. Moler  
**WPEN 920 250 Philadelphia, Pa.**  
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**WPF 1370 100 Hattiesburg, Miss.**  
 Forest Brdsg. Co.  
**WPG 1100 5000 Atlantic City, N. J.**  
 Convention Hall  
**WPHR 880 500 Petersburg, Va.**  
 WLBG, Inc., Medical Arts Bldg.  
**WPRO 630 250 Providence, R. I.**  
 Cherry & Webb Brdsg. Co., 15 Chestnut  
**WPRP 1420 100 Ponce, P. R.**  
 Julio M. Conesa  
**WPTF 680 1000 Raleigh, N. C.**  
 324 Fayetteville St.  
**WQAM 560 1000 Miami, Fla.**  
 Miami Brdsg. Co., Inc., 327 N. E. 1st Ave.  
**WQAN 880 250 Scranton, Pa.**  
 Scranton Times, 149 Penn Ave.  
**WQBC 1360 1000 Vicksburg, Miss.**  
 Delta Broadcasting Co., Hotel Vicksburg  
**WQDM 1370 100 St. Albans, Vt.**  
 42 N. Main St.  
**WRAC 1370 100 Williamsport, Pa.**  
 WRAC, Inc., 244 W. 4th St.  
**WRAW 1310 100 Reading, Pa.**  
 Reading Broadcasting Co., 533 Penn St.  
**WRAX 920 250 Philadelphia, Pa.**  
 WRAX Broadcasting Co., 217 S. Broad St.  
**WRBL 1200 100 Columbus, Ga.**  
 Royal Theatre Bldg.  
**WRBX 1410 250 Roanoke, Va.**  
 P. O. Box 2389  
**WRC 950 500 Washington, D. C.**  
 National Press Bldg.  
**WRDO 1370 100 Augusta, Me.**  
 WRDO, Inc., Augusta House  
**WRDW 1500 100 Augusta, Ga.**  
 Augusta Brdsg. Co., 309 8th St.  
**WREC 600 1000 Memphis, Tenn.**  
 WREC, Inc., Hotel Peabody  
**WREN 1220 1000 Lawrence, Kans.**  
 WREN Brdsg. Co., 8th and Vermont St.  
**WRGA 1500 100 Rome, Ga.**  
 10 Third Ave.  
**WRJN 1370 100 Racine, Wis.**  
 Racine Broadcasting Corp., Hotel Racine  
**WROK 1410 500 Rockford, Ill.**  
 109 So. Water St.  
**WROL 1310 100 Knoxville, Tenn.**  
 Stuart Broadcasting Corp., 524 S. Gay  
**WRR 1280 500 Dallas, Texas**  
 City of Dallas, Southland Life Bldg.  
**WRUF 830 5000 Gainesville, Fla.**  
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**WRVA 1110 5000 Richmond, Va.**  
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**WSA 1330 1000 Cincinnati, Ohio**  
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<b>WSAN 1440 500</b> Allentown, Pa. WSAN, Inc., 39 10th St.	<b>WTMV 1500 100</b> East St. Louis, Ill. Mississippi Valley Brdcastg. Co.
<b>WSAR 1450 250</b> Fall River, Mass. Academy of Music Bldg.	<b>WTNJ 1280 500</b> Trenton N. J. Trenton Brdcastg. Co., Stacy Trent Hotel
<b>WSAZ 1190 1000</b> Huntington, W. Va. WSAZ, Inc., P. O. Box 729	<b>WTOC 1260 1000</b> Savannah, Ga. Savannah Brdcastg. Co., De Soto Hotel
<b>WSB 740 50000</b> Atlanta, Ga. Atlanta Journal, 7 N. Forsyth St.	<b>WTRC 1310 50</b> Elkhart, Ind. Truth Radio Corp., Hotel Elkhart
<b>WSBC 1210 100</b> Chicago, Ill. Gene T. Dyer, 1258 S. Michigan Ave.	<b>WVFW 1400 500</b> Brooklyn, N. Y. Paramount Brdcastg. Co., 1 Nevins St.
<b>WSBT 1360 500</b> South Bend, Ind. South Bend Tribune, 225 W. Colfax Ave.	<b>WWAE 1200 100</b> Hammond, Ind. 402 Hammond Bldg.
<b>WSFA 1410 500</b> Montgomery, Ala. Jefferson Davis Hotel	<b>WWC 1420 1000</b> Spartanburg, S. C. Virgil V. Evans, Ravenal & Avant St.
<b>WSGN 1310 100</b> Birmingham, Ala. R. B. Broyles, Tutwiler Hotel	<b>WWJ 920 1000</b> Detroit, Mich. Evening News Assn., 616 Lafayette Blvd.
<b>WSIX 1210 100</b> Springfield, Tenn. 638 Tire & Vulcanizing Co.	<b>WWL 850 10000</b> New Orleans, La. Loyola University, Roosevelt Hotel
<b>WSJS 1310 100</b> Winston-Salem, N. C. Winston-Salem Journal Co., 416 N. Marshall	<b>WWNC 570 1000</b> Asheville, N. C. Citizen Brdcastg. Co., Inc., Flatiron Bldg.
<b>WSM 650 50000</b> Nashville, Tenn. 301—7th Ave. No.	<b>WWPA 850 250</b> Clarion, Pa.
<b>WSMB 1320 1000</b> New Orleans, La. WSMB, Inc., Maison Blanche Bldg.	<b>WWRL 1500 100</b> Woodside, N. Y. 4130—58th St.
<b>WSMK 1380 200</b> Dayton, Ohio WSMK, Inc., Loew Theatre Bldg.	<b>WWSW 1500 100</b> Pittsburgh, Pa. Hotel Schenley
<b>WSOC 1210 100</b> Charlotte, N. C. WSOC, Inc., Box 730	<b>WWVA 1160 5000</b> Wheeling, W. Va. Hawley Bldg.
<b>WSPA 920 1000</b> Spartanburg, S. C. Virgil V. Evans, Ravenal & Avant St.	<b>WXYZ 1240 1000</b> Detroit, Mich. Madison Theatre Bldg.
<b>WSPD 1340 1000</b> Toledo, Ohio Toledo Broadcasting Co., 505 Jefferson	<b>WIXBS 1530 1000</b> Waterbury, Conn. 61 Leavenworth St., Amer. Republican, Inc.
<b>WSUI 880 500</b> Iowa City, Iowa State University of Iowa	<b>WZXR 1550 1000</b> Long Island City, N. Y. Scientific Brdcastg. Serv., 41 Park Row, N. Y.
<b>WSUN 620 1000</b> St. Petersburg, Fla. Chamber of Commerce	<b>WEXA 1550 1000</b> Bakersfield, Calif. Pioneer Mercantile Co.
<b>WSVA 550 500</b> Staunton, Va. Marion K. Gilliam	<b>W9XBY 1530 1000</b> Kansas City, Mo. First National Television Inc.
<b>WSVS 1370 50</b> Buffalo, N. Y. 666 E. Delavan Ave.	<b>XEA 1060 125</b> Guadalajara, Jal. Alberto Páez Souza, Apdo. 197
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<b>WSYR 570 250</b> Syracuse, N. Y. E. Onondaga & S. Warren Sts.	<b>XEAF 1010 250</b> Nogales, Son. Francisco G. Elias, Hotel Central
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<b>WTAG 580 500</b> Worcester, Mass. 18 Franklin St.	<b>XEAJ 1310 15</b> Cazaca, Cam. Enrique M. Cihuela, 3a. Guerrero 18
<b>WTAM 1070 50000</b> Cleveland, Ohio 1367 E. 6th St.	<b>XEAM 960 50</b> Nuevo Laredo, Tams. Edificio Banco Longoria
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<b>WTAR 780 500</b> Norfolk, Va. WTAR Radio Corp., Wainwright Bldg.	<b>XEAW 960 10000</b> Reynosa, Tams. Internacional Broadcasting Co., S. A.
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<b>WTBO 800 250</b> Cumberland, Md. Associated Brdcastg. Corp., Box 794	<b>XEBC 730 5000</b> Agua Caliente, B. C. Alberto V. Aldrete
<b>WTCN 1250 1000</b> Minneapolis, Minn. Wesley Temple Bldg.	<b>XEC 1310 50</b> Tijuana, B. C. Luis F. Enciso, Teatro Zaragoza
<b>WTEL 1310 100</b> Philadelphia, Pa. Broad & Erie Ave.	<b>XECW 1310 10</b> Mexico City, D. F. Maria Elena Bravode Cordero Ave. Juarez 104
<b>WTFI 1450 500</b> Athens, Ga. 133 E. Washington St.	<b>XED 1160 500</b> Guadalajara, Jal. Cia. Radiofonografica, Apdo. 197
<b>WTIC 1040 50000</b> Hartford, Conn. 26 Grove St.	<b>XEE 1210 50</b> Durango, Dgo. 20 de Nov. 112 (Apdo. 148)
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<b>XEFC 1310 100 Merida, Yuc.</b> J. Molina Font, Calle 59, 517	<b>XEOX 640 250 Saltillo, Coah.</b> Victoria No. 4, Aitos.
<b>XEFE 920 250 Laredo, Tams.</b> R. T. Carranza, Km. 4 Carretera Laredo Mt.	<b>XEP 840 500 Mexico City, D. F.</b> Cla Difusora de Mexico S. A., Rembrandt 11
<b>XEFG 1100 250 Mexico City, D. F.</b> Ricardo Gonzales Montero, Tepic 48	<b>XEPN 590 50000 Piedras Negras, Coah.</b> Piedras Negras Brdstg. Co., Madero 53
<b>XEFI 1440 250 Chihuahua, Chih.</b> Feliciano Lopez Isles, Ap. 157	<b>XES 990 250 Tampico, Tams.</b> Fernando Sada, Box 309
<b>XFJ 1230 100 Monterrey, N. L.</b> R. Junco de la Vega, P. O. Box 186	<b>XET 690 500 Monterrey, N. L.</b> P. O. Box 203, Hidalgo
<b>XEFL 1160 500 Tijuana, B. C.</b> (P. O. Box 6, San Diego, Calif.)	<b>XETB 1310 125 Torreon, Coah.</b> Jose A. Berumen, R. Corona 317
<b>XEFO 940 5000 Mexico City, D. F.</b> Reforma No. 137	<b>XETF 1220 12 Veracruz, Ver.</b> Jose M. Lopez, Independencia 20
<b>XEFV 1210 100 Jaurez, Chih.</b> Cordova & Prieto, Ave. Ferrocarril 104	<b>XETH 1210 100 Puebla, Pue.</b> Ramon Huerta G., Calle 17 Oriente 11
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<b>XEG 1270 500 Ensenada, B. C.</b> Juan C. Chavez	<b>XEW 890 50000 Mexico City, D. F.</b> P. O. Box 2516
<b>XEH 1150 250 Monterrey, N. L.</b> Tarnava y Cla, P. O. Box 147	<b>XEWZ 1150 100 Mexico City, D. F.</b> Medellin e Insurgentes
<b>XEI 1370 125 Morelia, Mich.</b> Carlos Gutierrez M., F. I. Madero 545	<b>XEX 1310 125 Monterrey, N. L.</b> L. F. Pett Jean, P. O. Box 10
<b>XEJ 1020 1250 Juarez, Chih.</b> Juan G. Buttner, P. O. Box 111	<b>XEXX 845 500 Mexico City, D. F.</b> Av. Pino Suarez 9
<b>XEK 990 100 Mexico City, D. F.</b> Arturo Martinez, Jalapa No. 51	<b>XEYZ 780 10000 Mexico City, D. F.</b> Angel M. Diez, Ave. Juarez 48
<b>XEKL 1240 500 Leon, Guan.</b> 5 de Mayo 26	<b>XEZ 630 500 Merida, Yuc.</b> Jorge L. Falomeque, Estamores Ctd 214
<b>XELA 1240 50 Saltillo, Coah.</b> Enrique Gomez, Chautemos 28 Sur	<b>XEZZ 1370 100 San Luis Potosi, SLP</b> Emilio Delgado R. Ave. Chicoseln 32
<b>XELC 740 100 Mexico City, D. F.</b> Manuel Valdes Bravo, C. Central 112	<b>XFB 1270 1000 Jalapa, Ver.</b> Gobierno del Estado de Veracruz
<b>XELM 1310 15 Mineral del Monte, Dgo.</b> Jose Sanchez, Abesolo 1-A	<b>XFC 810 350 Aguascalientes, Aga.</b> Gobierno del Estado de Aguascalientes
<b>XELO 1110 10000 Piedras Negras, Coah.</b> Piedras Negras Brdstg. Co.	<b>XFD 1340 350 Orizaba, Ver.</b> Gobierno Estado de Veracruz
<b>XEMA 1080 50 Tampico, Tams.</b> Manuel M. Pier, Aretsanos 10	<b>XFO 940 5000 Mexico City, D. F.</b> Nat. Rev. Party, Ave. Morelos 110
<b>XEMO 865 2500 Tijuana, B. C.</b> P. O. Box 202, San Diego, Calif.	<b>XFX 610 1000 Mexico City, D. F.</b> Secretaria de Educacion Publica
<b>XEMX 1280 12 Mexico City, D. F.</b> Alfonzo T. Avales	<b>10-AK 1200 15 Stratford, Ont.</b> M. I. Higgins, 151 Ontario St.
<b>XEN 710 1000 Mexico City, D. F.</b> Cerveceria Modelo Ave. Juarez 77	<b>10-BP 1200 25 Wingham, Ont.</b> W. T. Cruickshank, Box 65
<b>XENT 910 60000 Nuevo Laredo, Tams.</b> Box 410, Laredo, Texas	

## 100 Best Shortwave Stations by Call Letters

Frequencies are given in megacycles and the time is Eastern Standard. In this list, the location of the transmitter is given. For a more complete list of the shortwave stations by frequencies, by calls and by countries, see the *DX Log of the World*.

Amateur phones are heard between  
1.875 and 2.000 megs.  
3.900 and 4.000 megs.  
7.000 and 7.300 megs. (Foreign only).  
14.150 and 14.250 megs.  
Broadcast Pickup stations: 1.606;  
1.622; 1.646; 2.102; 2.150; 2.190;  
2.390.

CJRO, Middlechurch, Man., 6.150.  
CJRX, Middlechurch, Man., 11.720.  
COC, Havana, Cuba, 6.010. 8:30 a.m. to 12:30 p.m.; 4-7 p.m. Sat., 11:30-12:30.  
COH, Havana, Cuba, 9.500. 5-6; 8-9 p.m.  
CP5, La Paz, Bolivia, 6.080. 8-9 p.m.

CT1AA, Lisbon, Portugal, 9.590. Tues., Thurs., Sat., 4:30-7 p.m.  
CT1GO, Lisbon, Portugal, 6.190. Sat., 8-9 p.m.; Tues. Thurs. 7:30-8:15 p.m. 12:30; Sat., Sun., 9-10 a.m.  
DJA, Zeesen, Germany, 9.560. Daily, 8-11:30 a.m.; 5:15-9:15 p.m.

# 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
	COC DJB DJQ VK2ME W8XK W9XF XEBT	DJB DJQ VK2ME W9XF	GSB GSD	GSB GSD RV15	DJB DJN JVT RV15 VK2ME VK3LR	DJB DJN HVJ JVT JVU LKJ1 RNE RV15 VK2ME VK3LR VK3ME YDA	DJB DJN GSE GSF JVT JVU LKJ1 RV15 VK2ME VK3LR VK3ME YDA	GSE GSF Pont. Rabat RV15 VE9GW VK2ME W1XK W8XK	DJA DJN GSE GSF HASS PCJ PHI Pont. Rabat. VE9GW VK2ME W1XK W8XK	DJA DJN GSB GSE PCJ PHI Pont. VE9GW W1XK W3XAL W8XK	DJA DJN GSB GSE HVJ PCJ PHI Pont. RNE VE9GW W1XK W8XK	DJA DJN GSB GSE Pont. W8XK

## 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 GSB GSE Pont. VE9GW W1XK W2XE W3XAU W8XK W9XAA	DJC DJD EAQ GSB GSD Pont. VE9GW W1XK W3XAU W8XK W9XAA XEBT	DJC DJD GSB GSD IRO Rabat VE9GW W1XK W2XAD W3XAU W8XK W9XAA XEBT	DJC DJD GSB GSD IRO Rabat VE9GW W1XK W3XAU W8XK W9XAA XEBT	COC CT1AA DJC DJD GSA GSB LCL Pont. Rabat RV59 PRF5 W1XK W2XE W3XAU VE9GW W1XK W9XF W9XAA XEBT YV3RC	COC COH CT1AA DJA DJC DJA DJD DJA GSA GSC HJ1ABB HJ2ABC HJ1ABB HJ2ABC IRA Pont. Rabat RV59 VE9GW W1XK W2XE W3XAU W8XK W9XAA W9XF W9XAA XEBT YV2RC YV3RC YV4RC YV5RMO	COC CT1AA DJA DJN DJA DJC DJA GSA GSC HJ1ABB HJ2ABC IRA Pont. Rabat RV59 VE9GW W1XK W2XE W3XAU W8XK W9XAA W9XF W9XAA XEBT YV2RC YV3RC YV4RC YV5RMO	DJA DJC DJN GSA GSC HC2RL HJ1ABB HP5B TIXGP3 W1XK W2XAF W2XE W3XAU W8XK W9XAA XEBT YV2RC YV3RC YV4RC YV5RMO	CJRO CJRXX COH CP5 DJA DJN DJA HAT HIX HJ1ABB HP5B PRADO TIGPH VE9GW W1XK W2XAF W2XE W3XAU W8XK W9XAA XEBT YV2RC YV3RC YV4RC YV5RMO	CJRO CJRXX DJN DJA HC2ET HC2RL HIX HJ1ABB HP5B PRADO TIGPH VE9GW W1XK W2XAF W2XE W3XAU W8XK W9XAA XEBT YV2RC YV3RC YV4RC YV5RMO	CJRO CJRXX DJC DJN HC2RL HC2ET HP5B OAX4D PRADO TIGPH VE9GW W1XK W2XAF W2XE W3XAU W8XK W9XAA XEBT YV2RC	CJRO CJRXX COC W1XK W3XAU W8XK W9XAA W9XF



DJB, Zeesen, Germany, 15.200. 3:45-7:15 a.m.; 12:30-2 a.m.  
 DJC, Zeesen, Germany, 6.020. Noon to 4:30 p.m.; 5:05-10:45 p.m.  
 DJD, Zeesen, Germany, 11.760. Noon to 4:30 p.m.  
 DJE, Zeesen, Germany, 17.760. Irregularly, Mornings.  
 DJN, Zeesen, Germany, 9.540. 3:45-7:15 a.m.; 8-11:30 a.m.; 5:15-10:45 p.m.  
 DJQ, Zeesen, Germany, 15.280. 12:30-2 a.m.  
 EAQ, Aranjuez, Spain, 9.862. 5:30-7 p.m.; Sat. noon to 2 p.m.  
 GBB, Rugby, England, 13.500. Phones Canada.  
 GBS, Rugby, England, 12.150. Phones N.Y.  
 GBU, Rugby, England, 12.240. Phones N.Y.  
 GBW, Rugby, England, 14.440. Phones N.Y. 6-8 p.m.  
 GSA, Daventry, England, 6.050. 4:30-5:45 p.m.; 6-8 p.m.  
 GSB, Daventry, England, 9.510. 1:15-3:15 a.m.; 9:15 a.m. to noon; 1-5:45 p.m.  
 GSC, Daventry, England, 9.580. 6-8 p.m.  
 GSD, Daventry, England, 11.750. 1:15-3:15 a.m.; 1-4:30 p.m.  
 GSE, Daventry, England, 11.860. 6-10:45 a.m.  
 GSF, Daventry, England, 15.140. 6-9 a.m.  
 GSL, Daventry, England, 6.110. Tests.  
 HAS3, Skekesfehear, Hungary, 15.370. Sun., 8-9 p.m.  
 HAT, Skekesfehear, Hungary, 5.400. Sun., 8-9 p.m.  
 HBL, Prangins, Switzerland, 9.995. Sat. 5:30-6:15 p.m.  
 HBP, Prangins, Switzerland, 7.797. Sat. 5:30-6:15 p.m.  
 HCJB, Quito, Ecuador, 8.200. 8:15-10:15 daily except Monday.  
 HC2ET, Guayaquil, Ecuador, 4.600. Wed., 9:30-11 p.m.  
 HC2RL, Guayaquil, Ecuador, 6.659. Tues. 9:14-11:14 p.m.; Sun. 5:45-7:45 p.m.  
 HIIH, San Pedro de Macoris, D. R., 6.810. 4-7:30 p.m. daily, and 3-4 a.m. Sunday.  
 HDK, Santo Domingo, D. R., 5.948. Tues. and Fri., 8-10 p.m.  
 HJA2, Bogota, Colombia, 5.825.  
 HJA3, Barranquilla, Colombia, 12.830  
 HJB, Bogota, Colombia, 14.930.  
 HJ1ABB, Barranquilla Colombia, 6.447. 5-10 p.m.  
 HJ1ABG, Barranquilla, Colombia 6.042. 7-10 p.m.  
 HJ2ABC, Cucuta, Colombia, 5.975. 6-9 p.m.  
 HJ3ABD, Bogota, Colombia, 7.406. "Colombia Broadcasting." 6-9 p.m. daily.  
 HJ4ABE, Medellin, Colombia, 5.900. 7-11 p.m.  
 HJ4ABL, "Ecos del Occidente," Manizales, Colombia, 6.100. Sat., 11 p.m. to 12:30 a.m.  
 HJ5ABD, Cali, Colombia, 6.490. Thurs., Sat., Sun., 7-9 p.m.  
 HPF, Panama City, Panama, 14.545. Phones Hialeah.  
 HP6B, Panama City, Panama, 6.030. 7-10:30 p.m.  
 HP5J, Panama City, Panama, 9.590. 8-11 p.m.  
 HSJ, Bangkok, Siam, 7.980.  
 HVJ, Vatican City, 15.120. 5-5:15 a.m. daily except Sunday. Occasionally from 10-10:30 a.m.  
 IRA, Rome, Italy, 6.070. Mon., Wed., Fri., 6-7:30 p.m.  
 IRE, Rome, Italy, 11.810. 9-10 a.m.  
 IS3, Bolling Field, Va., 6.412.  
 I2RO, Rome, Italy. 5.550. 5.725. 6.980. 9.600. 2:30-5 p.m.; 7:45-9:15 p.m.  
 JVE, Nazaki, Japan, 15.660. Phones Java, nights.  
 JVF, Nazaki, Japan, 15.620. Phones Dixon, 5-11 p.m.  
 JVQ, Nazaki, Japan, 7.470. Phone. JVT, Nazaki, Japan, 6.750. 4-8 a.m.  
 JVU, Nazaki, Japan, 5.790. 4-8 a.m.  
 KAY, Manila, P. I., 14.980. Phones Dixon.  
 KKH, Kahuku, T. H., 7.520. Phones Dixon.  
 KKP, Kahuku, T. H., 16.030. Phones Dixon.  
 KNRA, "Seth Parker", 6.160; 6.660; 6.870; 8.230; 8.820; 8.840; 13.200  
 KWO, Dixon, Calif., 15.415. Phones Hawaii and Manila.  
 KWU, Dixon, Calif., 15.355. Phones Japan.  
 KWK, Dixon, Calif., 7.610. Phones Hawaii.  
 LCL, Jeloy, Norway, 6.130. 11 a.m. to 5 p.m.  
 LEKJ, Jeloy, Norway, 9.540. 5-8 a.m.  
 OAX4D, Lima, Peru, 5.780. Wed. and Sat., 9-11:30 p.m.  
 ORK, Ruysselede, Belgium, 10.330. 1:30-3 p.m.  
 PCJ, Hilversum, Netherlands, 15.220; 7:30-10 a.m. daily exc. Tues., Wed.  
 PHI, Hilversum, Netherlands, 17.775; 7:30-10 a.m. daily exc. Tues., Wed.

## We Want Your Advice

If you, as a friend of RADEX, will check the information below to show your desires, we will greatly appreciate it. In apportioning our space, it would help us materially to know which features appeal most to our readers and those they consider of least importance.

Will you mark the items below from one to ten in the order in which you prefer them? The coupon need not be signed.

- Descriptions of new sets.
- Articles on how-to-build.
- Photos of radio personalities.
- Stories about the radio stars.
- Letters about DX from our readers.
- Pictures and brief sketches of DXers.
- Radio problems, questions and answers.
- Photos of radio stations and transmitters.
- Articles on aerials, grounds, noises, etc.
- Stories of new radio devices and improvements.

Police Stations, on frequencies 1.596 :  
 1.634; 1.642 1.658 1.666 1.674;  
 1.682; 1.706 1.712 2.382 2.406;  
 2.414; 2.416 2.422 2.430; 2.442;  
 2.450; 2.452 2.458; 2.466; 2.474;  
 2.482; 2.490.

PRADO, Riobamba, Ecuador, 6.618.  
 Thurs., 9-11:30 p.m.

PRF5, Rio de Janeiro, Brazil, 9.505.  
 5:30-6:15 p.m.

Radio Coloniale, Pontoise, France,  
 11:710: 1:15-5 p.m.; 5:15-9 p.m.;  
 10 p.m. to midnight.  
 11:905: 11:15 a.m. to 5 p.m.  
 15:243: 7:30-11 a.m.

Rabat, Morocco, 8.035. Sun., 11 a.m.  
 to noon, 2-7 p.m.  
 12:830. Sun., 7-9 a.m.

RKL, Moscow, U.S.S.R., 7.520.  
 Phones USA.

RNE, Moscow, U.S.S.R., 12.000.  
 Sun., 6 a.m. and 10 a.m.

RV15, Khabarovsk, U.S.S.R., 4.273.  
 8-9 a.m.

RV59, Moscow, U.S.S.R., 5.996.  
 3-6 p.m.

TGX, Guatemala City, Guatemala  
 5.937. Sun., 1-3 a.m.; other days,  
 8-12 p.m.

TIEP, San Jose, Costa Rica, 6.710.  
 7-10 p.m.

TIGPH, San Jose, Costa Rica,  
 5.820. 7-10 p.m.

VE9GW, Bowmanville, Ont., 6.095.  
 Sun., noon to 8 p.m.; Mon., Tues.,  
 Wed., 2-11 p.m.; Thur., Fri.,  
 Sat., 6 a.m. to 11 p.m.

VE9HX, Halifax, N. S., 6.110.  
 5-11 p.m.

VK1, Seltridge Field, Mich, 6.425.

VK2ME, Pennant Hills, Australia,  
 9.585. Mtd. to 2 a.m. and 4:30-  
 8:30 a.m., Sundays only.

VK3LR, Melbourne, Australia, 9.580.  
 Daily exc. Sun. 4-8 a.m

VK3ME, Braybank, Australia, 9.503.  
 Wed., 5-6:30 a.m.; Sat. 5-7 a.m.

VUB, Bombay, India, 9.565. Testing  
 Sunday, 7 a.m.

WTR, Albrook Field, Canal Zone,  
 6.885.

WOO, Ocean Gate, N. J., 4.273;  
 4.753 8.560; 12.840. Phones  
 Ships.

WIXAL, Boston, Mass., 6.040.  
 Tues., Thurs., 7:30-9:30; Sunday,  
 5-7 p.m.

W1XX, Millis, Mass., 9.570. 6 a.m.  
 to midnight.

W2XAD, Schenectady, N. Y., 15.340.  
 2:30-3:30 p.m.

W2XAF, Schenectady, N. Y., 9.530.  
 7:40-11 p.m.

W2XE, Wayne, N. J., 6.120. 6-11 p.m.  
 11.830. 3-5 p.m.

15.270. 11 a.m. to 1 p.m.

W3XAL, Boundbrook, N. J., 6.100.  
 Mon., Wed., Fri., 5-6 p.m.  
 17.780: daily 9-10 a.m.; Tues.,  
 Thurs., Sat., 3-4 p.m.

W3XAU, Newton Sq., Pa., 6.060.  
 8 p.m. to 11 p.m.  
 9.590. Noon to 8 p.m.

W8XAL, Mason, Ohio, 6.060. Ir-  
 regular.

W8XK, Saxonburg, Pa., 6.140. 4:30  
 p.m. to 12:30 a.m.  
 11.870. 4:30-10 p.m.  
 15.210. 10 a.m. to 5:15 p.m.  
 21.540. 7 a.m. to 2 p.m.

W9XAA, Chicago, Ill., 6.080. Sun.,  
 11:30 a.m. to 9 p.m.  
 Tues. Thur. Sat. 4-12 p.m.  
 Mon., Wed. Fri. 4:30-7 p.m.

W9XF, Downer's Grove, Ill., 6.100-  
 Daily exc. Sat. and Sun., 4.30.  
 8 p.m.; 9:30 p.m. to 2 a.m.  
 Sunday, 4:30-7 p.m. and 9 p.m.  
 to 2 a.m.

XEBT, Mexico City, D. F., 6.010.  
 Relay's XEB, 10 a.m. to 11 p.m.

XECW, del Caballero del Santokan,  
 Mexico, D. F., 5.980. 11-12  
 p.m.

XGO, Shanghai, China, 7.575.

YDA, Bandung, Java, 6.116. A  
 NIROM station.

YNA, Managua, Nicaragua, 14.480.  
 Phones Hialeah.

YNLF, Managua, Nicaragua, 6.950.  
 7-8; 10-11 p.m.

YNIGG, Managua, Nicaragua, "La  
 Voz de los Lagos", 6.385.  
 7-10:30 p.m.

YVQ, Maracay, Venezuela, 6.672.  
 Relays Caracas BC stations  
 occasionally.

YVR, Maracay, Venezuela, 9.168.  
 Phones Madrid.

YV2RC, Caracas Venezuela, 6.112.  
 5:15-10 p.m.

YV3RC, Caracas, Venezuela, 6.150.  
 6-10 p.m.

YV4RC, Caracas, Venezuela, 6.375:  
 4:30-10:30 p.m.

YV5RMO, Maracaibo, Venezuela  
 5.850: 5:15-10:15 p.m.

YV6RV, Valencia, Venezuela, 6.520.  
 "La Voz de Carabobo."

ZFB, St. George, Bermuda, 10.060.

ZFS, Nassau, Bahamas, 4.513.

The Cadena Indo-Americano  
 includes stations: HJ1ABH,  
 PRADO, TIEP, YNLF,  
 YV4RC, YV5RMO.

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