

THE MAY, 1935

A

RADIO INDEX

THE ALL-WAVE RADIO MAGAZINE



25^c

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

N. S. E.

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 CMCN 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
 860 KSEF Pocatello, Idaho, from 900
 900 WTAD Quincy, Ill., from 140
 920 CMAV 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 NEAF Nogales, Son., from 510
 1030 CMCY Havana, Cuba, from 1100
 1060 CMK Havana, Cuba, from 725
 1065 VOAK St. John's, Nfld., from 1300
 1070 CMHA Santa 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 CMJE 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 CMCG Havana, Cuba, from 1125
 1270 CMHD Calbairien, Cuba, from 950
 1280 CMCU Havana, Cuba, from 1255
 1320 CMON Havana, Cuba, from 1325
 1320 KRNT Des Moines, Iowa, from 1430
 1330 CMHK Cruces, Cuba, from 1225
 1350 CMCA Havana, Cuba, from 1230
 1360 CMJI 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 WTCC Bridgeport, Conn., 1000 to 500
 610 WTP Philadelphia, Pa., 1000 to 500
 640 CMBY Havana, Cuba, 250 to 125
 660 CMCN 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 CMBCC 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 CMCG Havana, Cuba, 400 to 500
 1230 CMCB Havana, Cuba, 150 to 112
 1255 CMCQ Havana, Cuba, 150 to 162
 1320 CMON Havana, Cuba, 200 to 250
 1320 KGMIB 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 WFMJ Frederick, Md.
 1210 KIUO Ardmore, Okla.
 1310 WTAL Tallahassee, Fla.
 1310 KROC Rochester, Minn.
 1370 Astoria, Ore.
 1400 CMCC Matanzas, Cuba
 1420 KIUN Pecos, Texas
 1420 KWBG Hutchinson, Kans.
 1420 Parkersburg, W. Va.
 1500 KPLO Lake Charles, La.

CALLS

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

DELETE

1310 WISC Milwaukee, Wis.
 1310 KPFM 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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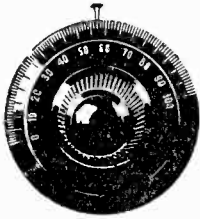
Custom-built, of course, in one of the world's finest radio laboratories to the most exacting specifications. Guaranteed for five years (except tubes). Sold in the U. S. A., direct from laboratory on 30-day trial basis.

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May 1, 1935



RADIO INDEX

Reg. U. S. Patent Office

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Technical Editor

PAGE TAYLOR
Short Wave Editor

ELEVENTH YEAR

NUMBER 89

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A Brand New Idea in Set Building

• • • By FRANCIS DASHIELL

MANY 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

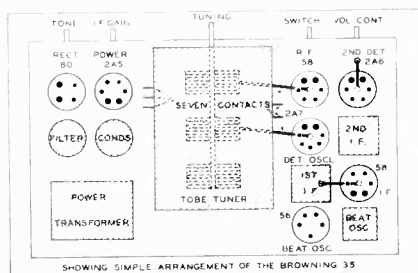
Glenn H. Browning, of Bowning-Drake fame during the early days of radio, has this time revolutionized all-wave set building. He remembers how untold thousands toiled over coils, condensers and trimmers for hours and days. He knew of the disheartening attempts to balance and tune radio-frequency and intermediate-frequency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

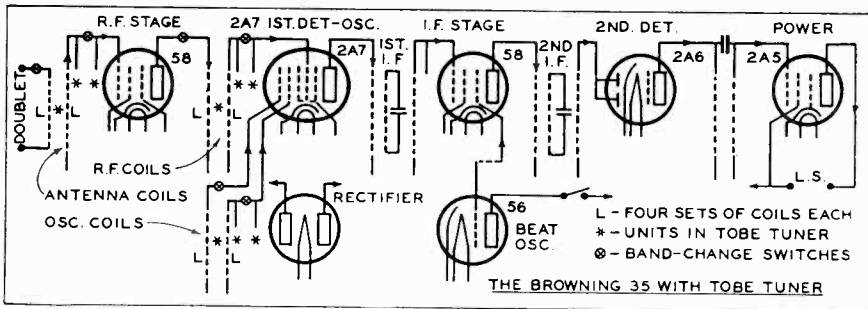
Browning, together with the Tobe Deutschmann Corporation, produced a complete, factory-assembled and adjusted tuning unit that is ready to fit into any home-made radio circuit. And the thing is so very simple that it makes us wonder why it was not done long ago.

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.

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WORLD-WIDE ANTENNA SYSTEM



The Airport Stations and Other S. W. News

• • • By PAGE TAYLOR

SOME 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.; BC1, 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 Tren 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 Szekesfehevar 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 Alomas, IX Kerulet Gyali 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 QQL 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"



BERNICE 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

WITH 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 IIGÉ. 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, IIRO and IITO. 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, XEGR, Mexico City, which will give its inaugural broadcast on Sunday, March 24th. XEGR 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 band, and a total of 559 logged," adds Samuel. "Some of my best verified catches are KFPM, CFCT, XEWZ, XEU, CMCD, KEYZ, 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 verie 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 CTIGL, 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. EDT.

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 of January 16. I verified the station on a 15-minute talk at that time. Among others I have received are XEAF, XEW, XEN, K1'0, 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-

NOTHING BEATS HEADPHONES for ALL-WAVE TUNING

Nothing Beats TRIMM Featherweight Phones

TRIMM Featherweights weigh less than FIVE OUNCES! Yet they are supersensitive and absolutely dependable. Used by experts.



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Chicago, Ill.

ing among many others: WWL, WKBF, WIBW, WMC, WREN, WSUI, WTIC, KFI, WCCO, KPO, WFLA, 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, WDNC, 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 ways 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, 11MI, 11TO, 11TR, 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. Wenison, 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."

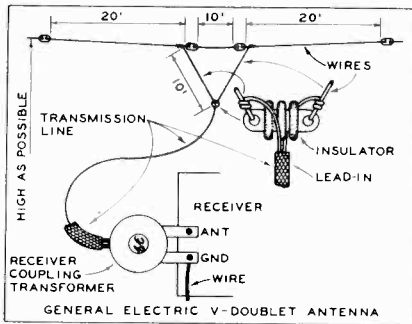
"I am a little afraid to present my small log," modestly writes Reginald Vining, 105 Tompkins St., Cortland, N. Y. "At this time I have logged 321 stations in 43 states, Canada, Mexico, Cuba, lower California, Puerto Rico and Guatemala on my Philco 4-tube midget. I consider KPO, TGW, KVI, KTM, WNEL, 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



THE 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.

My Radio Experiences

• • • By OLIVER AMLIE*



IT 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.

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*

GREETINGS 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 RKL 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 Narrabee, 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 Millican 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.

The CRCS DX Program

DUE 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.

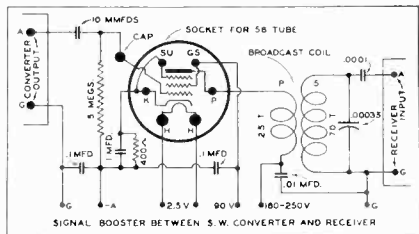
The most helpful report and the most valuable to the station engineers was received from H. E. Pippy, 18 Currie St., Glace Bay, N. S. "The report sent in by Chas. L. Morgan, 800 East 179th St., New York City, is by far the neatest bit of work we have ever seen and shows considerable effort and painstaking 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, Wisc., 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



IUSE 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 (measureable 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 are any substitutes 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 acts 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 — "Parkyakakas" — 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. EDST 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 to 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 Sparton Triolians (NBC-WJZ, Sundays, 4 p. m. EDT) 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*

AFTER 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.

Radio in 1922 and Now

• • • By Roy E. DeMent*

WHAT 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.

The Reorganized Globe Circlers

By William G. Odenwalder*

THE 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 Buitkant, 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.

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

The Situation in Cuba

DUE 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?

THE 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.

With the Editor

THE May-June-July issue of the *DY 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 *DY 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
TOTAL	53,582,474	58	1537	136

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

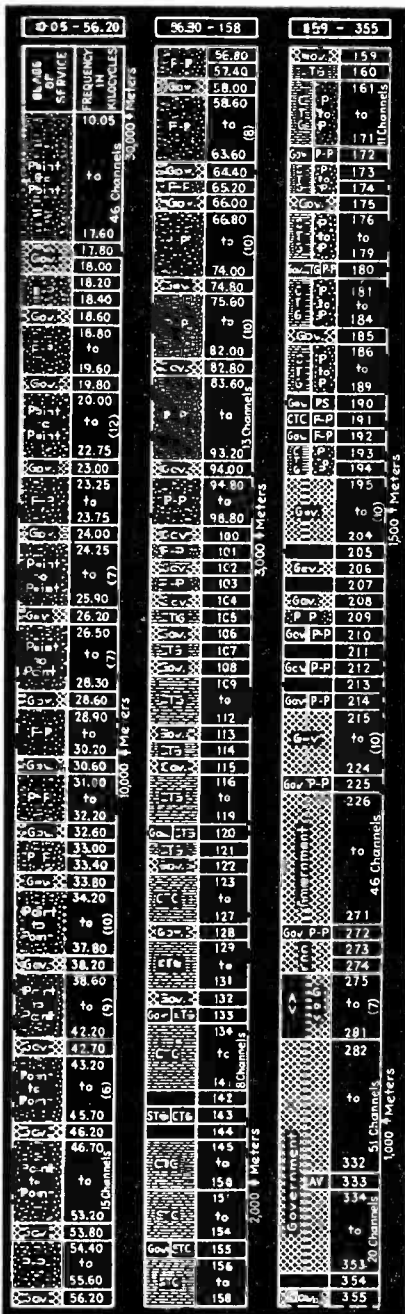
- AG Agriculture
- AM Amateur
- AV Aviation
- BC Broadcast, clear channel
- BE Broadcast, experimental
- BL Broadcast, local channel
- BP Broadcast, pickup
- BR Broadcast, regional channel
- CH Coastal, harbor
- CTG Coastal, telegraph
- CTL Coastal, telephone
- EM Emergency, (special)
- EX Experimental, (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

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	19.66	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. Sat. 1-2 a.m., Sun. 1-2:30 a.m. and 9-10 p.m.
WLW	W8XAL	6,060	49.5	10 KW	Daily exc. Sat. and Sun., 6:30 a.m. to 8 p.m. and 11 p.m. to 2 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

DURING 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.

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."

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 beb. 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 kes. 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, 15 1/2 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, KVI, CKOV, KGU, XEE, CFCT, XETH and others."

"On my Spartan 931, I have received 605 stations," recapitulates Clarence Wakefield, Warton, 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 CMOO."

"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., 622 1/2 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 received 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 WJW
 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 WTOG WWVA

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 WCHS WFAF
 WEEI WGY WJAR WMAQ WRC
 WSAI WTAG WTAM WVIC

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 WWVA

C — Buck Rogers; 25th Century
 KMBC KMOX KRLD KTRH K TSA
 WBMM WBT WCCO WDSU WFBM
 WGST WHAS WMBG

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

R — Easy Aces
 KSO KYW WCAE WCHS WFAF
 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
 WHAS WHK WJAS WJSV WNAC

B — Dangerous Paradise; Drama
 KDKA KOIL KSO KTBS KYOO
 KWCR KWK WBAL WBZ WBZA
 WENR WFLA WGAR WHAM WJR
 WJZ WKY WMAL WOI WREN
 WSB WSM WSMB WSYR

R — Uncle Ezra
 KYW WBNB WCAE WCHS WDAF
 WFAF 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 KYOO WHAP
 WBNB WCAE WCHS WDAF WFAF
 WEEI WFAA WGY WHO WJAR
 WKY WMAQ WOI WOC WOW
 WRC WSAI WTAG WTAM WVIC

C — Fray and Braggotti
 CKLW KDB KERN KFPY KFRC
 KGB KHJ KLZ KNBC 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 WJZ WKRK 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 K LRA
 KMBC KMOX KOMA KRLD KTRH
 K TSA KTUL WABC WADC WALA
 WBBM WBNS WBRC WBT WCAO
 WCAU WCCO WCOA WDAE WDBJ
 WDRC WDSU WEAN WFBL WFBM
 WFEA WGR WGST WHAS WHEC
 WHK WTBW WIXB WICC WISN
 WJAS WJSV WKRC WLAC WLBZ

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

R — Voice of Firestone
 CFCE CRCT KFYP KFRC KSD
 KSTP KTBS KVOO KYW WAVE
 WBNB WCAE WCHS WDAF WDAY
 WFAF WFCB WEEI WFBR WFLA
 WGY WHO WIBA WIOD WIS WJAR
 WJAX WJDX WKBZ WKY WMAQ
 WMC WOI WOV WPTF WRC
 WRVA WSB WSM WSMB WSOC
 WTAG WTAM WTAR WVIC WTMJ
 WWJ WWNC

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

CKLW KDB KERN KFBK KFH
 KFPY KFRC KGB KGMB KIJ
 KLRA KLZ KMBC KMJ KMOX
 KOH KOIN KOL KOMA KRLD
 KSCJ KSL KTRH K TSA KTUL
 KYI KWG WABC WACO WADC
 WALA WBBM WBIG WBNS WBRC
 WBT WCAO WCAU WCCO WDAE
 WDBJ WDOO WDNC WDDO WDRC
 WDSU WEAN WFBL WFBM WFEA
 WGST WHAS WHEC WIHK WHP
 WIBW WICC WISN WJAS WJSV
 WKBH WKBW WKRC WLAC WLWB
 WLBZ WMAS WMBD WMBG
 WMBR WMT WNAC WNAK WOKO
 WORC WOWO WFG WQAM WREC
 WFA WJSJ WJZ WSPD WTOG

R — A & P Gypsies
 KSD WBNB WCAE WCHS WDAF
 WFAF WEEI WGY WHO WJAR
 WLIT WMAQ WOC WOW WTAG
 WTAM WVIC WWJ

B — Sinclair Greater Minstrels
 KDKA KFI KFSD KFYP KOA KOIL
 KPO KPRC KSO KSTP KTRH KTBS
 KTBS KVOO KWK WBAL WBZ
 WBZA WDAY WFCB WFAA WFLA
 WGAR WHAM WIBA WIOD WIS
 WJAX WJDX WJR WJZ WKY WLS
 WLW WMC WOI WOV 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)

WDRC WDSU WEAN WFBL WFBM
WHAS WHK WICC WJAS WJVS
WKBW WKRC WNAK WOKO
WOWO WREC WSPD

R — Otto Harbach Musical Show
KDYL KFI KFYR KGO KGW KHQ
KOA KOMO KPRC KSD KSTP
KTBS KVOO WBEN WCAE WCSH
WDAF WDAY WFAE WFCB WEEI
WFAA WFBR WFLA WGY WHO
WIBA WIOD WIS WJAR WJAX
WJDX WKY WLIT WLW WMAQ
WMC WOAI WOC WOV WPTF WRC
WRVA WSAI WSB WSM WSMB
WTAG WTAM WTMJ WWJ WNBC

B — Princess Pat Players
KDKA KOIL KSO KWCR KWK
WBAL WBZ WKY 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 KFCR KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KRLD
KSL KVI KWG WAAB WABC WADC
WBBM WCAO WCAU WCOO
WDCR WDSU WEAN WFBL WFBM
WHAS WHK WIBW WJAS WJSV
WKBW WKRC WOKO WSPD

R — Contented Program
CFCE CRCT KDYL KFI KFYR
KGO KGW KHQ KOA KOMO KPRC
KSD KSTP WBEN WCAE WCSH
WDAF WDAF WFAE WFCB WEEI
WFAA WFBR WGY WHO WJAR WKY
WLIT WLW WMAQ WMC WOAI
WOC WOV WRC WSB WSM WTAG
WTAM WTIC WTMJ WWJ

B — Jackie Heller, Tenor
KDKA KOIL KSO KWCR WBAL
WBZ WJZ WKY 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
KFCR KGB KHJ KLZ KMJ KMOX
KOIN KOL KRLD KSL KVI WABC
WBBM WCAO WFBL 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
KFCR KGB KHJ KLRA KLZ KMBC
KMJ KMOX KOIN KOL KOMA
KRLD KSL KTRH KVI KWG WALA
WBBM WBCO WDCO WDSU WFBM
WGST WHAS WLAO WREC WSCA

B — Amos 'n' Andy
KOIL KPRC KSTP KTBS KWK
WBAF WKY 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 WDNB
WDOB WDRC WDSU WEAN WFEA
WJSV WLAC WLZ WMAS WMBG
WMBR WNAC WNOX WOV WPG
WQAM WREC WSCA WJSJ WTCO

C — Edwin C. Hill
KDB KERN KFBK KFPY KFCR
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 KFSO KGHL KGIR
KGO KGW KHQ KOA KOMO KPO
KTAR

C — Kate Smith's Star Revue
KDB KERN KFBK KFPY KFCR
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
WBBM WCAO WCAU WDCR WEAN
WFBL WFBM WGR WHAS WHK
WJAS WJSV WKRC WNAK WOKO

R — Leo Reisman and Orchestra
KFYR KPRC KSD KSTP KTBS
KVOO WAVE WBAP WBEN WCAE
WCSH WDAF WDAY WFAE WFCB
WEEI WFBH WFI WFLA WGY
WIBA WIOD WIS WJAR WJAX
WJDX WKBF WKY WMAQ WMC
WOC WOV WPTF WRC WSB WSM
WSMB WSOE WTAG WTAM WTAR
WTIC WTMJ WWJ WNBC

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
CFBR CKLW KMBC KMOX WABC
WADC WBBM WCAO WCAU WCOO
WDCR WEAN WFBL WFBM WGR
WHAS WHK WJAS WJSV WKRC
WNAK WOKO WOV WSPD

R — Wayne King and Orchestra
KPRC KSD KSTP WBEN WCAE
WCSH WDAF WFAE WEEI WFAA
WFI WGY WHO WJAR WKBF WKY
WMAQ WMC WOAI WOC WOV
WRC WSAI WSB WSM WSMB
WTAG WTAM WTIC WTMJ WWJ

B — Edgar Guest; Welcome Valley
KDKA KOIL KSO KWK WBAL
WBZ WBZA WKY WFIL WGAR
WHAM WJR WJZ WLS WMAL
WNT WREN WSYR

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

CKLW KDB KERN KFBK KFPY
KFCR KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRLD KSL
KTUL KVI KWG WABC WADC
WBBM WBT WCAO WCAU WCOO
WDCR WDSU WEAN WFBL WFBM
WGST WHAS WHK WJAS WJSV
WKBW WKRC WNAK WOKO
WOWO WREC WSPD

R — Ben Bernie and Orchestra
KFYR KOA KPRC KSD KSTP
KFBK WBAF WBEN WCAE WCSH
WDAY WFAE WEEI WFBH WEI
WGY WJAR WJDX WKY WMAQ
WMC WOAI WOV WRC WSB WTAG
WTAM WTIC WTMJ WWJ

B — Red Trails; Drama
KDKA KDYL KFI KGW KHQ KOA
KOIL KPO KSO KWCR KWK WBAL
WBZ WBZA WKY WFI WHAM
WJR WJZ WKBF 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 KFCR KGB KHJ KMBC
KMJ KMOX KOIN KOL KSL KVI
KWG WABC WADC WBBM WCAO
WCAU WCOO WDCR WEAN WFBM
WHAS WHK WJAS WJSV WKBW
WKRC WMAS WNAK WOKO WOV
WSPD

R — Ed Wynn; Eddie Duchin
KDYL KFI KFSO KFYR KGHL
KGIR KGO KGW KHQ KOA KOMO
KPRC KSD KSTP KTAR KTBS
KTIS KVOO WAVE WBAP WBEN
WCAE WCSH WDAF WDAY WFAE
WFCB WEEI WFBH WFI WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKBF WKY WMAQ
WMC WOAI WOV WPTF WRC
WRVA WSB WSM WSMB WSOE
WTAG WTAM WTIC WTMJ WWJ
WNBC

ED-10:00 p.m., E-9:00, C-8:00, M-7:00
C — Glen Gray; Walter O'Keefe
CKLW KFAB KFI KLRA KMBC
KMOX KOMA KRLD KSCJ KTRH
KTSK KTUL KWKH WABC WACO
WADC WALA WBBM WBIG WBNS
WBRC WBT WCAO WCAU WCOO
WDAE WDBJ WDBO WDNB WDOB
WDCR WDSU WEAN WFBL WFBM
WFEA WGST WHEC WHK WHP
WIBW WICC WISN WJAS WJSV
WKBW WKBW WKRC WLAC
WLWB WLZ WMAS WMBD
WMBG WMBR WMT WNAK WNAK
WOKO WORC WOV WPG WQAM
WREC WSCA WJSJ WSPD WTOC

R — Palmolive Beauty Box
CFCE CRCT KDYL KFI KFSO
KFYR KGHL KGIR KGO KGW
KHQ KOA KOMO KPRC KSD KSTP
KTAR KTBS KVOO WAVE WBAP
WBEN WCAE WCSH WDAF WDAY
WFAE WFCB WEEI WFBH WFLA
WGY WHO WIOD WIS WJAR WJAX
WJDX WKBF WKY WLW WMAQ
WMC WOAI WOC WOV WPTF
WRC WRVA WSB WSM WSMB
WSOE WTAG WTAM WTMJ WWJ
WNBC

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 KFCR KGB KHJ KLRA KLZ
KMJ KMOX KOIN KOL KRLD
KRNT KSL KTRH KTSK KTUL
KVI KWG WABC WBBM WBNS
WBRC WBT WCAO WCAU WCOO
WDCR WDCU WFBL WFBM WGR
WGST WHAS WHK WJAS WJSV
WKRC WLAC WMBG WMBR
WNAC WNAK WOC WOKO WQAM
WREC

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

TUESDAY (Continued)

KHJ KLRA KLZ KMBC KOH KOI
KOMA KRLD KTRH KTSJ KTV
KVOR WABC WADC WALA WBBM
WBIG WBNS WBT WCAO WCCO
WDBJ WDBO WDNC WDOE WDRC
WEAN WFBL WFEA WGR WGST
WHAS WHCZ WHK WHL WIBX
WICC WKBN WKRC WLAC WLZB
WMAZ WMBG WMBR WNOX WOC
WOKO WORC WPG WQAM WREC
WSBT WSJS WSNK WSPD WTOG

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 KTSJ KVOR KWKH WABC
WACO WADC WALA WBNS WBRC
WBT WCAO WDAE WDBJ WDBO
WDNC WDRC WDSU WEAN WFBL
WFEA WGLC WHEC WHK WHP
WIBX WJAS WJSV WKBW WKRC
WLAC WLWB WLZB WMAZ WMBG
WMBR WMT WNAZ WNAZ WNOX
WOKO WORC WPG WQAM WSBT
WSFA WSJS WSPD WTOG 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 KTSJ KVOR
KWKH WABC WADC WBBM WBNS
WBRC WBT WCAO WCAU WDAE
WDBJ WDBO WDNC WDOE WDRC
WDSU WEAN WFBL WFEA WHCZ
WHK WHP WIBX WICC WISN
WJAS WJSV WKBW WKRC WLAC
WLWB WLZB WMAZ WMBD
WMBR WMT WNAZ WNAZ WNOX
WORC WPG WQAM WSBT WSFA
WSJS WSPD WTOG 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
CFCT CHCT KDYL KFI KFJR
KGO KGW KHQ KOA KOMO KPRC
KSD KSTP KTAR KTHS KVOO
WAVE WBAP WBBN WCAE WCKY

WCSH WDAF WDAY WEAF WEBC
WEEI WFBR WFLA WGY WIO
WJAX WIOD WIS WJAR WJAX
WJDX WKY WLIT WMAQ WNC
WQAI WOC WOW WPTF WRC
WRVA WSAI WSB WSM WSNB
WTAG WTAM WTIC WTJW WYJ
WYWC

B — Hal Kemp and Orchestra

KDKA KOIL KSO KWCR KWK
WBAL 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 WNAZ
WOKO WOVO 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 WHW WJAS WJSV WKRC
WLAC WNAZ WOKO WOVO WSPD

R — Wayne King, See Tuesday

B — House of Glass; Drama

KDKA KOIL KSO WBAL WBZ
WHAZ WFLA WFLA WGAR WHAM
WIOD WIS WJAX WJZ WLS WMAL
WMT WPTF WREN WRVA WSOE
WSYR WTAZ WYWC

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

R — Fred Allen; Lennie Hayton

KPRC KSD KSTP KTHS KVOO
WBEN WCAE WCSH WDAF WEAF
WEBC WEEI WFBR WGY WIOD
WIS WJAR WJAX WKY WLIT
WLW WMAQ WMC WOAI WOW
WPTF WRC WRVA WSB WSM
WSMB WTAG WTAM WTIC WTJW
WYJ

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 KTSJ KVI KWG WABC
WADC WBBM WBI WBT WCAO
WCAU WCCO WDRC WDSU WEAN
WFBL WFBM WHK WJAS WJSV
WKBW WKRC WNAZ WOKO WORC
WOVO 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 KIAB KFBC
KHJ KFPY KFRC KGB KGKO
KLZ KMBC KMJ KMOX KOIN
KOL KOMA KRA KRLD KSCJ
KSL KTRH KTSJ KTUL KVI

KWG KWKH WABC WALA WBBM
WBNS WBRC WBT WCAO WCAU
WCCO WDAE WDBJ WDBO WDOE
WDRC WDSU WEAN WFBL WFBM
WGST WHAS WHCZ WHK WHP
WIBW WIBX WICC WJAS WJSV
WKBW WKRC WLAC WMAZ
WMBD WMBG WMBR WMT WNAZ
WNAZ WNBZ WNOX WOC WOKO
WOVO WQAM WREC WSBT WSMK
WSPD WTOG

R — Guy Lombardo and Orchestra

KPRC KSD KTHS KTHS KVOO
WAVE WBEN WCAE WCSH WDAF
WEAF WEEI WFAA WFBM WFLA
WGY WIO WIOD WIS WJAR WJAX
WJDX WKBW WKY WLIT WLW
WMAQ WMC WOAI WOW WOW
WPTF WRC WRVA WSB WSM
WSMB WTAG WTAM WTIC WYJ
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
KTSJ KVOR 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 WHCZ WHK WHP
WICC WISN WJAS WJSV WKRC
WLAC WLWB WMAZ WMBD
WMBR WMT WNOX WOKO WORC
WQAM WSBT WSFA WSJS WSPD
WTOG

R — Ray Noble and Orchestra

KDYL KFI KGW KHQ KOA KOMO
KPO KSD KYW WAPI WAVE WBEN
WCAE WCSH WEAF WEEI WFBR
WGY WIO WJAR WJDX WKBW
WLW WMAQ WMC WOW WRC
WSB WSM WSMB WTAG WTAM
WTIC WYJ

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

KIRA WABC WALA WBRC WBT
WCAO WCAU WDAE WDBJ WDBO
WDNC WDOE WDRC WDSU WEAN
WFEA WJSV WLAC WLZB WMBR
WNAZ WNOX WORC WPG WQAM
WSFA WSJS WTOG

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
WICC WISN WYJ WLAC WLZB
WMAZ WMBR WNAZ WNOX WORC
WPG WQAM WSA WSJS WTOG

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 — Moile Minstrels
 KSD KYW WBSN WDSH WDAF
 WFAF 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 WSYR
 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

CFCE CRCT KDYL KFI KFYP
 KGO KGW KHQ KOA KOMO KPRC
 KSD KSTP KTAR KTVB WAPI
 WBAP WBSN WCAE WDSH WDAF
 WFAF WIBC WEHI WFBY WFI
 WFLA WGY WHO WIOD WIS
 WJAR WJAX WJDX WKY WLW
 WMAQ WMC WQAI WOC WOW
 WPTF WRC WRVA WSB WSM
 WSNB WTAG WTAM WTIC WWJ
 WWNC

C — David Ross; Readings
 CKLW KDB KERN KFAB KFBK
 KFPY KPRC KGB KHJ KLZ KMBC
 KMJ KMOX KOIN KOL KSL KVI
 KWG WAHC WABC WBBM WCAO
 WCAU WCCO WDRC WEAN WFBL
 WFHM WGR WHAS WHK WJAS
 WJSV WKRC WMAS 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 WDRC 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 KRLL KSCJ KTRH
 KTSa KTUL KWKH WABC WACO
 WADC WALA WBBM WBIG WBNS
 WBTC WBT WCAO WCAU WCCO
 WDAE WDBJ WDBO WDOD WDRC
 WDSU WEAN WFBL WFBM WFEA
 WGST WHAS WHFC WHK WHP
 WIBW WICC WISN WJAS WJSV
 WKBN WKBB WKRC WLAC
 WLWB WLWB WMAS WMBD
 WMBG WMBR WMT WNAC WNAX
 WORC WORC WOWO WPG WQAM
 WREC WSPA WSJS WSPD WTOC

R — Maxwell House Show Boat
 KDYL KFI KFSD RGHM KGIR
 KGO KGW KHQ KOA KOMO KPRC
 KSD KSTP KTAR KTBS WAPI
 WAVE WBAP WBSN WCAE WDSH
 WDAF WFAF WEHI WFBY WFI
 WFLA WGY WHO WIOD WIS WJAR

WJAX WJDX WKBF WKY WLW
 WMAQ WMC WQAI WOC WOW
 WRC WRVA WSAI WSB WSM
 WSNB WTAG WTAM WTIC WTJ
 WWJ WWNC

B — Death Valley Days; Drama
 KDKA KOIL KSO KWCR KWK
 WRAL 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 KFBK KFH KFPY KPRC
 KGB KGKO KILJ KLRA KLZ KMBC
 KMJ KMOX KOH KOIN KOL KOMA
 KRLL KSCJ KSL KTRH KTSa
 KTUL KVI KVOR KWG WABC
 WACO WADC WALA WBBM WBIG
 WBNS WBRC WBT WCAO WCAU
 WCCO WDAE WDBJ WDBO WDNC
 WDOD WDRC WDSU WEAN WFBL
 WFBM WFEA WGLC WGST WHAS
 WHFC WHK WHP WIBW WICC
 WISN WJAS WJSV WKBN WKBB
 WKRC WLAC WLWB WLWB WMAS
 WMBD WMBG WMBR WMT WNAC
 WNAX WNAX WOKO WORC WOWO
 WPG WQAM WREC WSPA WSJS
 WSPD WTOC

B — Mexican Musical Tours
 KDKA KOIL KSO WBAL WBZ
 WBZA 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

CFCE CRCT KDYL KFI KFYP
 KGO KGW KHQ KOA KOMO KPRC
 KSD KSTP KTAR KTBS KTHS
 KVVO WAPI WAVE WBAP WBSN
 WCAE WDSH WDAF WDAY WFAF
 WIBC WEHI WFBY WFI WFLA
 WGY WHO WIBA WIOD WIS WJAR
 WJAX WJDX WKY WLW WMAQ
 WMC WQAI WOC WOW WPTF
 WRC WRVA WSB WSM WSNB
 WTAG WTAM WTIC WTJ 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 CKAC CKLW KDB KFH
 KGKO KLRA KLZ KOH KOMA
 KRLL KSCJ KTRH KTSa KVOR
 KWKH WABC WACO WADC WALA
 WBBM WBNS WBRC WBT WCAO
 WCCO WDAE WDBJ WDBO WDNC
 WDOD WDRC WDSU WEAN WFBL
 WFBM WFEA WGLC WHFC WHK
 WHP WIBW WISN WJAS WJSV
 WKBB WKRC WLAC WLWB WLWB
 WMBD WMBG WMBR WMT WNAC
 WNAX WNAX WOKO WORC WPG WQAM
 WSBT WSPA 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 KFBK KFPY KPRC
 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. Kaltenborn

CKLW KFHI KGKO KLZ KMBC KOH
 KOMA KRLL KSCJ KSL KTRH
 KVOR KWKH WAAW WABC WBBM
 WCAO WCAU WDCN WDRB WFBL
 WGLC WHFC WHK WISN WJAS
 WJSV WKBB 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'Neil'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
M — Cities Service Concert

CRCT KDYL KOA KPRC KSD
 KSTP KTBS KTHS KVVO KYW
 WBAP WBSN WCAE WDSH WDAF
 WFAF WIBC WEHI WFAA WFBY
 WGY WHO WJAR WKY WLIT
 WQAI 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 WSB
 WSM WSYR

C — Mrs. Franklin D. Roosevelt

CFRB CKLW KDB KERN KFAB
 KFBK KFH KFPY KPRC KGB
 KHJ KLRA KLZ KMBC KMJ KMOX
 KOIN KOL KOMA KRLL KSCJ
 KSL KTRH KTSa KVI KWG WABC
 WADC WBBM WBNS WBRC WBT
 WCAO WCAU WCCO WDAE WDBJ
 WDRB WDSU WEAN WFBL WFBM
 WGR WGST WHAS WHFC WHK
 WJAS WJSV WKRC WLAC WLWB
 WMBG WMBR WNAC WNAX
 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 WKY
 WFIL WHAM WIRE WJZ WLS
 WMAL WMT WREN WSYR

ED-8:30 p.m., E-7:30, C-6:30, M-5:30
B — Ruth Etting; Red Nichols

KDKA KOIL KSO KWK WRAL
 WBZ WBZA WCKY WFIL WGAR
 WHAM WJR WJZ WLS WMAL
 WMT WREN WSYR

C — True Story Court

CKLW KMHC WABC WADC WBBM
 WCAO WCAU WCCO WDRB WEAN
 WFBL WGR WHK WJAS WJSV
 WKRC WNAC WOKO

ED-9:00 p.m., E-8:00, C-7:00, M-6:00
C — March of Time

CKLW KDB KERN KFBK KFPY
 KPRC KGB KHJ KLZ KMJ KMOX
 KOIN KOL KRLL KSL KVI KWG

FRIDAY (Continued)

WABC WADC WBBM WCAO WCAU
WCCO WDCR WDSU WEAN WFBL
WFBM WGST WHAS WHK WJAS
WJSV WKBW WKRC WNAC WOKO
WOVO WSPD

R — Frank Munn; Abe Lyman

KSD WHEN WCAE WCSH WDAF
WEAF WEEL WFBM WGY WJAR
WLIT WLW WMAQ WOV WRC
WTAG WTAM WWJ

B — Beatrice Lillie

CFCH CHCT KDKA KDYL KFI
KHQ 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 WMAL
WMC WPTF WREN WSB WSMB
WSYR WTAR WWCN

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

C — Hollywood Hotel

CFRB CRAC CKLW KDB KERN
KFAB KFBK KFH KFPY KPRC
KGB KGKO KHJ KLRA KLZ KMBC
KMJ KMXX KOIN KOL KOL ROMA
KRLD KSCJ KSL KTRH K TSA
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WHRC WHT WCAO
WCAU WCCO WDAE WDBJ WDBO
WDNC WDOD WDRC WDSU WEAN
WFBL WFBM WFEA WGST WHAS
WHCC WHK WHP WIBW WBX
WICC WISN WJAS WJZ WKBH
WKBW WKRC WLAC WLWB WLHZ
WMAS WMHD WMBG WMBR WMT
WNAC WNAX WNOX WOKO WORC
WOWO WPG WQAM WREC WSBT
WSFA WSJS WSPD WTOG

R — Pick and Pat

KSD WHEN WCAE WCSH WDAF
WEAF WFBM WGY WJO WJAR
WLIT WMAQ WOC WOV 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 WBBB WENR
WFAA WFLA WFBM WHAM WIOD
WJAX WJZ WJZ WKY WMC WMT
WREN WRVA WSB WSMB WSMJ
WTMJ WWCN

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 WAVE
WCAE WCSH WDAF WEAF WEBC
WEEI WFAA WFBM WGY WHO
WJAR WKY WLIT WLW WMAQ
WMC WOI WOC WOV 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 WSOB
WSYR WTAR WWCN

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 WBG WBNS
WBT WCAO WCUA WCCO WCHS
WDBJ WDNC WDOD WDRC WDSU
WEAN WFBL WGR WHAS WHEC

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

R — Coca Cola; Frank Black

CFCH CRCT KDYL KFI KFSB
KFYR KGHIL KGR KGU KGW
KHQ KOA KOMO KPO KSTP KTAR
KTBS KTHS KYW WAVE WCAE
WCSH WDAF WEAF WEBC WEEI
WFBM WFLA WGY WIBA WIS
WJAR WJAX WJDX WKBK WLW
WMC WOV WPTF WRC WSB
WSMB WSOB WTAG WTAM WTAR
WTIC WTMJ WWJ WWCN

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 WBRB WBT
WCAO WDAE WDBO WDNC WDOD
WDCR WDSU WEAN WFEA WHK
WJSV WLAC WLBB WMAS WNAC
WNOX WORC WPG WQAM WSFA
WSJS WTOG

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 KGHIL
KGR KGW KHQ KOA KOMO KPO
KPRC KTAR KTBS KTHS KVOO
WAVE WBAF WDBJ WEBC WIBA
WJDX WKY WMC WOI WIS
WSM WSMB WTMJ

SATURDAY

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

C — Frederic William Wile

CRAC CKLW KDB KERN KFBK
KFPY KPRC KGB KHJ KLRA KLZ
KMJ KMXX KOIN KOL KRLD
KSL KTRH K TSA KVI KWG WAAB
WABC WALA WBBM WBIG WBNS
WBRC WBT WCAO WCAU WCCO
WDAE WDBJ WDBO WDNC WDOD
WDSU WFBL WFBM WGR WGST
WHAS WHCC WHK WICC WJSV
WKRC WMBR WNOX WQAM
WREC WTOG

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

C — Soconyland Sketches

WABC WHRC WEAN WGR WICC
WLBB WMAS WNAC WOKO WORC

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

C — Victor Arden and Orchestra

CFRB CRAC CKLW WABC WBBM
WCAO WCUA 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 CRAC CKLW KDB KERN
KFBK KFPY KPRC KGB KHJ
KLRA KLZ KMBC KMJ KMXX
KOIN KOL KOMA KRLD KSL
KTRH K TSA KVI KWG WABC
WBBM WBRC WCAO WCAU WCCO
WDOD WDRC 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 KGHIL
KGR KGU KGW KHQ KOA KOMO
KPO KPRC KSD KSTP KTAR
KTBS KYW WAPI WAVE WBN

WCAE WCSH WDAF WDAY WFAF
WEBC WEEL WFBM WFLA WHO
WHO WIBA WIOD WIRE WIS
WJAR WJAX WJDX WKY WLW
WMAQ WMC WOI WOV WPTF
WRC WSB WSMB WSOB WTAG
WTAM WTAR WTIC WWCN

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

C — Benay Venuta

CKLW KDB KERN KFBK KFPY
KPRC KGB KHJ KLZ KMBC KMJ
KMXX KOIN KOL KRLD KSL KVI
KWG KWKH WABC WADC WBBM
WBT WCAO WCAU WCCO WDCR
WEAN WFBL WFBM WGR WHAS
WHK WJAS WJSV WKRC WNAC
WOKO WOVO 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
KTBS KTHS KYW WAPI WAVE
WBAF WBBB WCSH WDAF WDAY
WEAF WEBC WEEL WFBM WFLA
WGY WHIO WIBA WIOD WIS
WJAR WJAX WJDX WKY WLW
WMAQ WMC WOI WOV WPTF
WRC WRVA WSB WSMB WSOB
WTAG WTAM WTAR WTIC WTMJ
WJZ WWCN

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 KMXX WAAB
WABC WADC WBBM WBSB WBT
WCAO WCAU WCCO WDCR WDSU
WEAN WFBL WFBM WGST WHK
WJAS WJSV WKBW WKRC WOKO
WSBT WSPD

B — National Barn Dance

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

R — Al Jolson; Victor Young

KDYL KFYR KOA KSTP KYW
WBAF WCAE WCSH WDAF WDAY
WEAF WEBC WEEL WFBM WGY
WHIO WJRA 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 KGEO
KHJ KLRA KLZ KMBC KOH KOMA
KRLD KSCJ KTRH K TSA KVOR
KWKH WAAB WABC WACO WADC
WALA WBIG WBT WCAO WCAU
WCCO WDAE WDBJ WDBO WDNC
WDOD WDRC WDSU WEAN WFBL
WFBM WFEA WGLC WGR WHCC
WHP WIBW WICC WISN WJAS
WJSV WRIC WLAC WLWB WLBZ
WMAS WMHD WMT WNAX WNOX
WOKO WORC WPG WQAM WSBT
WSFA WSJS WSPD WTOG WYVA

R — Let's Dance

KFYR KPRC KSD KTBS KTHS
KVOO KYW WAVE WBAF WBBB
WCAE WCSH WDAY WEAF WEBC
WEEI WFAA WFBM WFLA WGY
WIBA WIOD WIS WJAR WJAX
WJDX WKY WLW WMAQ WMC
WOAI WOV WRC WSB WSMB
WTAG WTAM WTAR WTIC WTMJ
WJZ WWCN

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

C — Richard Himber and Orchestra

KDB KERN KFBK KFPY KPRC

SATURDAY (Continued)

KGH KHJ KLZ KMJ KOIN KOL
KSL KVI KWG

B — National Barn Dance

KDYI KFI KGO KGW KHQ KOA
KOMO WAVE WJDX WLS WMC
WSH 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 WDBO WDDO
WDRG WDSU WFBM WGLC WGR
WHCC WHP WIHW WJAS WJSV
WKRC 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 KEH KGKO
KLRA KLZ KMBC KOH KOMA
KTRH KTSa KWKH WABC WBSN
WCAO WDBO WDNC WDDO WEAN
WFBL WFBM WGLC WHP WIHW
WICC WJSV WKHW WKRC WLAC
WLHW 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 KEH KGKO KLRA KLZ
KOH KRLL KSCJ KSL KTRH
KTSa KWKH WAIB WACO WADC
WALA WBBM WBSM WCCO WDAE
WDBO WDDO WDRG WDSU WEAN
WFBL WFBM WFEA WGLC WHK
WHP WIHW WICC WISN WJAS
WJSV WLAC WLWB WLWZ WNAS
WMBD WMHR WMT WNAC WNAX
WNOX WOKO WORC WQAM WREC
WSFA WSPD

R — Major Bows' Family

KDYI KEYR KOA KPRC KSTP
KTHS KVOO WAPI WCAE WDAF
WDAY WFAE WFCB WFAA WFBW
WFLA WGY WHO WIOD WJAR
WJAX WKY WMAQ WMC WQAI
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 WDRG WEAN
WFBL WFBM WGR WHAS WJAS
WJSV WKH WKRC WNAS WNAC
WOKO WORC WOWO WSPD

B — Radio City Symphony

CFCE CRCT EDKA KFDY KFI
KEYR KGO KGW KHQ KOA KOIL
KOMO KPRC KSO KVCO WAPI
WBAL WBZ WBZA WCKY WDAY
WEBC WGR WHAM WIS WJAX
WJR WJZ WKY WMAL WQAI
WREN WSMB WSYR WWNC

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

C — Church of the Air

CFRB CKLW KEH KGKO KHJ
KLRA KLZ KOH KRLL KSCJ KSL
KTRH KTSa KWKH WAAB WABC
WACO WALA WBBM WBIG WBSN
WBT WCAO WCCO WDAE WDBJ
WDBO WDNC WDDO WDRG WDSU
WFBL WGLC WGR WHCC WHP
WIHW WJAS WJSV WKRC WLAC
WLWB WLWZ WMBR WMT WNOX
WOKO WORC WPG WQAM WREC
WSBT WSFA WSJS WSPD WWSA

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

R — Miss Bab-o's Surprise

WBEN WCAE WCSH WDAF WFAE
WFBI WFBR WFI WGY WJAR
WMAQ WOW WRC WSAI WTAG
WTAM WWJ

C — Mary Eastman: Evan Evans

CKLW KFAB KEH KLZ KMBC
KMOX KOMA KRLL KSCJ KSL
WABC WADC WBBM WBSN WBT
WCAU WCCO WDRG 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
KFY KPRC KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KOMA
KRLL KSL KVI KWG WABC WADC
WBBM WBSN WBT WCAO WCAU
WCCO WDBJ WDRG WDSU WEAN
WFBL WFBM WGST WHAS WHCC
WHK WIHW 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
KFY KPRC KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KOMA
KRLL KSL KVI KWG WAIB
WADC WBBM WBT WCAO WCAU
WCCO WDBJ WDRG WDSU WEAN
WFBL WFBM WGST WHAS WHCC
WHK WIHW WJAS WJSV WKBW
WKRC WLAC WMBG WMT WNAC
WOWO

B — Lux Program; Dramas

KDKA KDYL KEI KEYR KGO
KGW KHQ KOA KOIL KOMO KPRC
KSO KSTP KTHS KTHS KVCO
KWCR KWK WBAL WBZ WBZA
WDAY WEBC WFAA WGAR WHAM
WIBA WJR WJZ WKY WLW WMAL
WQAI WPTT WREN WRVA WSYR
WTAR

R — Carefree Carnival

KSD KYW WCAE WCSH WFAE
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 KEH KGKO
KHJ KLRA KLZ KOH KRLL KSCJ
KSL KTRH KTSa KVOR KWKH
WABC WADC WALA WBIG WBSN
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDNC WDDO WDRG
WDSU WEAN WFBL WFBM WFEA
WGLC WGR WHCC WHK WHP
WIHW WICC WISN WJAS WJSV
WKRC WLAC WLWB WLWZ WNAS
WMBD WMHR 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 WSMB
WSM WTAG WTAM WWJ

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

R — Penthouse Serenade

KDYI KEI KGO KGW KHQ KOA
KOMO KSD WEN 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 WCAU WCAU WDRG
WEAN WFBL WFEA WGAR WGR
WHB WHO WICW WIND WJAS
WJDX WJR WLWZ WLW WNAS
WNAC WNBH WOC WOKO WOL
WOR WORC

R — Rhythm Symphony

KDYI KEI KGW KOA KOMO KPO
KPRC KTHS WAPI WAVE WBPB
WBEN WCSH WDAF WFAE WEBC
WEEI WFBR WFLA WGY WIBA
WIOD WJAR WJAX WJDX WLIT
WMAQ WMC WQAI WPTT WRC
WRVA WSAI WSB WSM WSMB
WTAG WTAM WTIC WWJ

B — Jolly Coburn and Orchestra

KDKA KOIL KSO KWCR WBAL
WBZ WBZA WCKY WENR WFIL
WJZ WKBF WMAL WREN WSYR

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

R — Harry Reser and Orchestra

CFCE CRCT KTHS KTHS KVGO
KYW WBAF WBEN WCAE WCSH
WDAF WEAF WEEI WFBR WGY
WJAR WKY WMAQ WQAI WRC
WSAI 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 KEH KLRA KLZ KMBC
KMOX KOMA KRLL KSL KTRH
KTSa KTUL WAAB WAIB WADC
WBBM WBIG WBRC WBT WCAO
WCAU WCCO WDDO WDRG WDSU
WEAN WFBL WFBM WGR WGST
WHAS WHCC WHK WIHW WJAS
WJSV WKBN WKRC WLAC WLWZ
WNAS WMBG WOKO WORC WOWO
WREC WSPD

R — Sentinels Serenade

CFCE CRCT KDYL KEI KEYR
KGO KGW KHQ KOA KOMO WAVE
WBEN WCAE WCSH WDAF WEAF
WEBC WEEI WFBR WFI WGY
WHO WIBA WJAR WKBF WMAQ
WMC WOC WOW WRC WSAI WSB
WSM WTAG WTAM WTIC WTMJ
WVW

B — Roses and Drums

KDKA KOIL KPRC KSO KTHS
KWCR KWK WBAL WHAP WBZ
WBZA WJNR WGAR WHAM WJR
WJZ WKY WLW WMAL WQAI
WREN WSYR

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

C — Frank Crumit; Julia Sanderson

CKLW KEH KMBC KMOX KOMA
KTUL WAAB WABC WADC WBSN
WCAO WCAU WDRG WDSU WEAN
WFBL WFBM WGR WHAS WHCC
WHK WIHW WICC WJSV WNAS
WOKO WORC WSPD WWSA

R — Tony Wons

CFCE CRCT KDYL KEI KEFD
KEYR KGW KHQ KOA KOMO KPO
KPRC KSD KSTP KTRH KTHS
KVCO KYW WAPI WAVE WBPB
WBEN WCAE WCSH WDAF WDAY
WEAF WEBC WEEI WFBR WGY
WHO WIBA WJDX WIS WJAR
WJAX WJDX WKBF WKY WMAQ
WMC WQAI WOW WPTT WRC

SUNDAY (Continued)

WRVA WSAI WSB WSMB WTAG
WTAM WTAR WTIC WTMJ WWJ
WWNC

B — Cook Travelogues

KDKA KOIL KSO KWCR KWK
KOA KOIL KONO KPRC KSO
KSTP KWCR KWK WBAL WBAP
WBZ WBZA WEBC WGAR WHAM
WMA WJR WJZ WKY WLS WLW
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 KONO KPRC KSO
KSTP 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 KMJ
KMOX KOIL KOL KRLD
KSL KVI KWG WAAB WAHC
WBMM WBNS WBT WCAO WCAU
WCCO WDRC WDSU WFBL WFBM
WGST WHAS WHFC WHK WJAS
WJSV WKBW WKRC WQOM

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

C — Smilin' Ed McConnell

CKLW KDB KERN KFBK
KFPY KFRC KGB KHJ KLZ KMJ
KMOX KOIL KOL KRLD
KSL KVI KWG WAAB WAHC
WBMM WBNS WBT WCAO WCAU
WCCO WDRC WDSU WFBL WFBM
WGST WHAS WHK WHP WICC
WISN WJAS WJSV WKBW WKRC
WLAC WLWB WLWZ WORC WQAM
WREC WVVVA

B — Compana Grand Hotel

KDKA KDYL KFI KGO KGW KHQ
KOA KOIL KONO KPRC KSO
KSTP KWCR KWK WBAL WBZ
WBZA WEBC 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 KMHC KMOX WAAB WABC
WBMM WBT WCAO WCAU WCCO
WDRC WEAN WFBL WHAS WHK
WJAS WJSV WKBW WKRC
WQAM WWOV WWVA

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 KONO KPRC KSO
KSTP KWCR KWK WBAL WBAP
WBZ WBZA WEBC WGAR WHAM
WJAS WJR WJZ WKY WLS WLW
WMAL WMC WOAI WREN WSB
WSM WSMB WSYR WTMJ

C — Roadways of Romance

KDB KERN KFBK KFPY KFRC
KGB KHJ KLZ KMBC KMOX
KOL KSL KVI KWG WABC
WBMM WCAO WCAU WCCO WDRC
WFBL WGR WHAS WHK WJAS
WJSV WKRC WNAC WQOM

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

B — Joe Penner; Ozzie Nelson

KDKA KDYL KFI KGO KGW KHQ
KOA KOIL KONO KPRC KSO
KSTP KWCR KWK WBAL WBZ
WBZA WEBC WFAA WFLA WGAR
WHAM WJAS WJR WJZ WKY
WLS WMAL WMC WQAM

WPTF WREN WRVA WSB WSM
WSMB WSYR WTMJ

R — American Radiator Musical

WBEN WCAE WCHS WEAF WFBR
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

CFCF KSD WBEN WCAE WCHS
WEAF WFBR WGY WJO WJAR
WKBW WLIT WMAQ WOC WWR
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 KOIL KOL
KOMA KRLD KSL KTRH KTSA
KTUL KVI KWG WAAB WABC
WADC WBBM WBRC WBT WCAO
WCAU WCCO WDRC WDSU WEAN
WFBL WFBM WGR WGST WHAS
WHK WJAS WJSV WKRC WOKO
WOWO WSPD

R — Major Bowes' Amateur Hour

CFCF CRCT KDYL KFI KFYR
KGO KGW KHQ KOA KOMO KPRC
KSD KSTP KTAR KVOO WAPI
WAVE WBEN WBZ WBZA WCAE
WCHS WDAF WDAY WEAF WEBC

WFAA WFBW WFLA WGY WHO
WIOD WIS WJAR WJAX WJDX
WKY WLIT WLW WMAQ WMC
WOAI WOC WOW WPTF WRC
WRVA WSB WSM WSMB 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 KTSA
WABC WACO WADC WALA WBIG
WBNS WBRW WBT WCAO WCAU
WDAA WDBJ WDBO WDOD WDRC
WDSU WEAN WFAA WGST WHAS
WHFC WHK WJAS WJSV WKRC
WLAC WLHZ WNAS WMBR 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
KFH KFPY KFRC KGB KGKO
KHJ KLRA KLZ KMBC KMJ
KMOX KOH KOIN KOL KOMA
KRLD KSCJ KSL KTRH KTSA
KTUL KVI KVOR KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRW WBT WCAO WCAU
WCCO WDAE WDBJ WDBO WDNC
WDOD WDRC WDSU WEAN WFBL
WFBM WFAA WGLC WGR WGST
WHAS WHFC WHK WHP WIBW
WIBX WICC WISN WJAS WJSV
WKBH WKBW WKRC WLAC
WLWB WLWZ WNAS WMBR WMT
WNAC WNAX WNOX WOKO WORC
WOWO WQAM WSBT WSFA WSJS
WSPD WTOC WWVA

R — Manhattan Merry-Go-Round

CFCF KDYL KFI KGO KGW KHQ
KOA KOMO KSD KSTP WDAF
WEAF WEBC WFBW 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 KPRC
KSO KSTP KWCR KWK WBAL
WBAP WBZ WBZA WEBC WGAR
WHAM WJAS 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

CFCF CRCT KDYL KFI KGO
KGW KHQ KOA KOMO KPRC KSD
KSTP KVOO WBEN WCAE WCHS
WDAF WEAF WEEI WFAA WFBW
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 WHL
WGAR 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 KWG WBN
WCAE WCHS WDAF WDAY WEAF
WEBC WFBW WGY WHO WJBA
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 KFII KGKO KHJ
KLRA KLZ KMBC KOH KRLD
KSCJ KTRH KTSA KVOR KWKH
WABC WACO WADC WALA WBIG
WBNS WBT WCAO WCAU WCCO
WDAE WDBJ WDBO WDNC WDOD
WDRC WDSU WEAN WFBL WFBM
WFAA WGLC WGR WHFC WHP
WIBW WICC WISN WJAS WJSV
WKRC WLAC WLWB WLWZ WNAS
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 KFII KGKO
KLRA KLZ KOH KRLD KSCJ
KTRH KTSA KVOR KWKH WABC
WACO WADC WBBM WBNS WBT
WCAO WCAU WCCO WDAE WDBJ
WDBO WDNC WDOD WDRC WDSU
WEAN WFBL WFAA WGLC WGR
WHFC WHK WHP WIBW WISN
WJAS WJSV WKRC WLAC WLWB
WLWZ WNAS WMBD WMBR WMT
WNAC WNAX WNOX WOKO WORC
WPG WQAM WREC WSBT WSFA
WSJS WSJD WTOC

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

B — Walter Winchell

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

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

B — Jack Benny; Don Bestor

KDYL KFSB KGIR 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 Coburn, 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 Heldt, 10:30 p.m. Tues. and Thurs., C
Richard Hmber, 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. daily, 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 Gracie, 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

Back 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. daily, except Sat. and Sun., C
One Man's Family, 8:00 p.m. Wednesday, R
The O'Nells, 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
Back 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
Sentinels Serenade, 5:00 p.m. Sunday, R
Sinclair Minstrels, 9:00 p.m. Monday, B
Voice of Freestone, 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
 M. E. 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 Tibbonit, 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 Bréstr. 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.
 KFUB ae 500 2 (1) St. Louis, Mo.
 KFVR 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 ak 1000 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.
 WNAZ 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

KHO 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

CFCF 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.
 WJYA 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.
 WLZB ak 500 C (1) Bangor, Maine
 WSNW ae 1000 Na (1) St. Petersburg, Fla.
 WTMJ ae 1000 N (5) Milwaukee, Wis.

630 kilocycles 475.9 meters

CFCY ae 1000 F Char't'w'n, P.E.I.
 CJGX ak 500 F Yorkton, Sask.
 CKOV ak 100 F Kelowna, B. C.
 KFUR ak 500 1 (1) Columbia, Mo.
 KGFX ak 200 D Pierre, S. D.
 WGBF ae 500 I Evansville, 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.
 WAJU 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
 KFEO 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 50000 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	50000		Chicago, Ill.
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730 kilocycles 410.7 meters

CFPL	ak	100	F	London, Ont.
CJCA	ah	1000	F	Edmonton, Alta.
CKAK	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.
WHBB	ak	250	D	Portsmouth, N. H.
WSB	ah	50000	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	10000	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	ak	50000	CSy	Chicago, Ill.

780 kilocycles 384.4 meters

CHWK	ak	100	F	Chilliwack, B. C.
CKSO	z	1000	F	Sudbury, Ont.
KELW	ae	500	2	Burbank, Calif.
KPDY	ae	1000	D	Brookings, S. D.
KPOD	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	50000	R	Schenectady, N. Y.

800 kilocycles 374.8 meters

TIGP	z	75		San Jose, C. R.
WBAP	ak	50000	Na	Fort Worth, Tex.
WFAX	ak	50000	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	ae	50000	C	Minneapolis, Minn
WNYC	ak	1000	N	New York, N. Y.
XFC	z	350		Agua Calientes, Ags

820 kilocycles 365.6 meters

WHAS	aj	50000	C	Louisville, Ky.
XETW	dk	500		Mexico City, D. F.

830 kilocycles 361.2 meters

CMG	ae	500	835	Havana, Cuba
KOA	ak	50000	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	Carlton, Pa.

860 kilocycles 348.6 meters

WABC	ae	50000	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	50000	Na	Chicago, Ill.
WLS	ae	50000	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.
WGOC	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.
KFNF	ak	500	2 (1)	Shenandoah, Iowa
KSEI	ck	250	(.5)	Pocatello, Idaho
KUSD	ae	500	2	Vermillion, S. D.
WBA	ae	1000	D	W. Lafayette, Ind.
WGST	ae	250	C (1)	Atlanta, Ga.
WJAR	ae	500	R	Providence, R. I.
WMMN	ae	250	(.5)	Fairmont, W. Va.
NEW	ak	50000		Mexico City, D. F.

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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	aeH	1000	N	Jacksonville, Fla.
WKY	ae	1000	N	Oklahoma City, Ok.
WLBL	ak	2500	D	Stevens Point, Wis.
WAFI	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.
TICR	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	ae	1000	N (5)	Houston, Texas
KVOD	ak	500	2	Denver, Colo.
WAAF	ak	500	D	Chicago, Ill.
WBSO	ae	500	D	Babson Park, Mass.
WPEN	ak	250	(.5) 1	Philadelphia, Pa.
WRAX	ak	250	1 (.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.
WBDB	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	ak	1000	N	Louisville, Ky.
WCSH	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.
CMGD	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, Tama.

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

CHML	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.
WIN	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.

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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
 WCBP ak 5000 1Dny
 WMBI ae 5000 1Dn
 XEMA z 50

1090 kilocycles

KMOX ak 50000 C

1100 kilocycles

CRCV ak 1000 F
 KGDM ak 1000 D
 KWKH ae 10000 C
 TIRCA ak 500
 WLWL ae 5000 1
 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 ae 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 ae 50000 B
 XEH ak 250
 XEWZ s 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, Tams.

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
 Sloux 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
 WDG Y 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 D
 KADA ak 100 D
 KETM ak 100 D
 KFJB ak 100 (.25)
 KFSD ae 100 (.25)
 KF XJ ak 100 (.25)
 KGDE ak 100 (.25)
 KGEK ak 100
 KG FJ ae 100
 KGHI 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 z 100
 WBNO ck 100 1
 WCAT ak 100 D
 WCA X ak 100
 WCL O 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)
 WKJ C ak 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.

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CMHI ak 150 Santa Clara, Cuba
 KASA ck 100 Elk City, Okla.
 KDRL ak 100 Devils Lake, N. D.
 KFJI ak 100 Klamath Falls, Ore.
 KFOR ak 100 (.25)C Lincoln, Neb.
 KFPW ak 100 Fort Smith, Ark.
 KFVS ae 100 6 (.25) Cape Girardeau, Mo.
 KFXM ak 100 9 San Bernardino, Cal.
 KGY ak 100 Olympia, Wash.
 KIEM ak 100 Eureka, Calif.
 KIUL z 100 P Garden City, Kans.
 KIUO z 100 DP Ardmore, Okla.
 KPCC ak 100 9 Pasadena, Calif.
 KWEA z 100 Shreveport, La.
 KWFV z 100 Hilo, Hawaii
 KWTV ak 100 Watertown, S. D.
 WALR ak 100 Zanesville, Ohio
 WBAX ae 100 1 Wilkes Barre, Pa.
 WBBL ak 100 S Richmond, Va.
 WBRB ak 100 3 Red Bank, N. J.
 WCOL ak 100 Columbus, Ohio
 WCRW ae 100 4 Chicago, Ill.
 WEBQ ae 100 6 (.25) Harrisburg, Ill.
 WEDC ae 100 4 Chicago, Ill.
 WFAS ak 100 3 White Plains, N. Y.
 WGBB ae 100 3 Freeport, N. Y.
 WGCN ae 100 3 (.25) Mississippi City
 WGNV ak 100 3 Chester, N. Y.
 WHBF ak 100 (.25) Rock Island, Ill.
 WIBU ak 100 (.25) Anderson, Ind.
 WJBY ak 100 (.25) Fayette, Ala.
 WJEF ak 100 D Gadsden, Ala.
 WJEM ah 100 D Hagerstown, Md.
 WJMW z 100 (.25) Lansing, Mich.
 WJW ak 100 Akron, Ohio
 WKOK ak 100 I Sunbury, Pa.
 WMBG ak 100 C (.25) Richmond, Va.
 WMFG z 100 P Hibbing, Minn.
 WMFN z 100 P Clarksdale, Miss.
 WOCL ak 100 Jamestown, N. Y.
 WOMT ae 100 D Manitowoc, Wis.
 WPAX ae 100 4 Thomasville, Ga.
 WSBC ae 100 4 Chicago, Ill.
 WSIX ak 100 Springfield, Tenn.
 WSOC ak 100 N (.25) Charlotte, N. C.
 WTAX ak 100 Springfield, Ill.
 XEE z 50 Durango, Colo.
 XEFV ak 100 Juarez, Chih.
 XETH ak 100 Puebla, Pue.

1220 kilocycles 245.8 meters

CMJE z 50 Camaguey, Cuba
 KFKU ae 1000 a Lawrence, Kas.
 KTW ak 1000 S2 Seattle, Wash.
 KWSC ae 1000 2 (2) Pullman, Wash.
 WCAD ak 500 D Canton, N. Y.
 WCAE ak 1000 R Pittsburgh, Pa.
 WDAE ae 1000 C (.25) Tampa, Fla.
 WREN ak 1000 Ba(5) Lawrence, Kas.
 XETF z 12 Veracruz, Ver.

1230 kilocycles 243.8 meters

CJOC ak 100 F Lethbridge, Alta.
 CMCB ak 112 Havana, Cuba
 KGBX ak 500 Springfield, Mo.
 KGGM ak 250 (.5) Albuquerque, N. M.
 KYA ae 1000 N San Francisco, Calif.
 WFBM ae 1000 C Indianapolis, Ind.
 WNAC ak 1000 C (.25) Boston, Mass.
 XEFJ ak 100 Monterrey, N. L.

1240 kilocycles 241.8 meters

CJCB ak 1000 F Sydney, N. S.
 CMHB z 30 San Spiritus, Cuba
 KCCU ak 250 1 Mandan, N. D.
 KLPM ak 250 1 Minot, N. D.
 KTAT ak 1000 C Fort Worth, Texas
 KTFI ae 1000 Twin Falls, Idaho
 WKAQ ae 1000 San Juan, P. R.

WXYZ ak 1000 Detroit, Mich.
 XEAI z 100 Mexico City, D. F.
 XEKL z 500 Leon, Guan.
 XELA z 50 Saltillo, Coah.

1250 kilocycles 239.9 meters

CMCG z 162 1255 Havana, Cuba
 CMCK z 150 Santiago, Cuba
 KFOJ ae 1000 Long Beach, Calif.
 WCAL ah 1000 2 (2.5) Northfield, Minn.
 WDSU ak 1000 C New Orleans, La.
 WHBI ak 1000 a (2.5) Newark, N. J.
 WLB ak 1000 2 Minneapolis, Minn.
 WNEW ae 1000 a (2.5) Newark, N. J.
 WTCN ak 1000 2 (5) Minneapolis, Minn.

1260 kilocycles 238.0 meters

CFRN ak 100 Edmonton, Alta.
 KGVO ak 1000 Missoula, Mont.
 KOIL ak 1000 B (2.5) Council Bluffs, Iowa
 KPAC ak 500 D Port Arthur, Texas
 KRGV ak 500 Weslaco, Texas
 KUQA ak 1000 D Fayetteville, Ark.
 KVOA ak 500 Tucson, Ariz
 WHIO ae 1000 R Dayton, Ohio
 WNBX ak 1000 D Springfield, Vt.
 WTOC ae 1000 C Savannah, Ga.

1270 kilocycles 236.1 meters

CMCP z 150 Havana, Cuba
 CMHD dk 250 Calbarien, Cuba
 HIX ak 1000 Santo Domingo, D. R.
 KCGA ak 100 2D Decorah, Iowa
 KOL ae 1000 C (2.5) Seattle, Wash.
 KQOR ae 1000 C Colorado Spgs., Colo.
 KWLC ak 100 2D Decorah, Iowa
 WASH ae 500 a Grand Rapids, Mich.
 WFRB ae 500 R Baltimore, Md.
 WJDX ae 1000 N (2.5) Jackson, Miss.
 WOOD ae 500 a Grand Rapids, Mich.
 XEG z 500 Ensenada, B. C.
 XFB ak 1000 Jalapa, Ver.

1280 kilocycles 234.2 meters

KFBB ae 1000 2 (5) Great Falls, Mont.
 WCAM ae 500 I Camden, N. J.
 WCAP ae 500 I Asbury Park, N. J.
 WDOE ae 1000 C (5) Chattanooga, Tenn.
 WIBA ae 1000 N Madison, Wis.
 WORC ae 500 C Worcester, Mass.
 WRR ak 500 Dallas, Texas
 WTNJ ak 500 1 A Trenton, N. J.
 XEMX z 12 Mexico City, D. F.

1290 kilocycles 232.4 meters

KDYL ak 1000 N Salt Lake City, Utah
 KLCN z 100 D Blytheville, Ark.
 KTRH ak 500 C (5) Houston, Texas
 WEBC ae 1000 N (2.5) Superior, Wis.
 WJAS ak 1000 C (2.5) Pittsburgh, Pa.
 WNBZ z 100 D Saranac Lake, N. Y.
 WNEL ak 500 San Juan, P. R.

1300 kilocycles 230.6 meters

CMKJ z 20 Guantanamo, Cuba
 HIZ z 10 Santo Domingo, D. R.
 KALE ak 500 3C Portland, Ore.
 KFCAC ak 1000 Los Angeles, Calif.
 KFH ak 1000 C Wichita, Kans.
 KFJR ag 500 2 Portland, Ore.
 WBBR ae 1000 1 Brooklynd, N. Y.
 WEVD ae 1000 1 New York, N. Y.
 WFAB ae 1000 1 New York, N. Y.
 WFBC ak 1000 (5) Greenville, S. C.

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WHAZ ae 500 1
WIOD ae 1000 N

Troy, N. Y.
Miami, Fla.

1310 kilocycles 228.9 meters

CHCK ak 50
CJKL z 100
CJLS z 100
CKCV ak 50 F
KCRJ ak 100 D
KFBK ak 100 C
KFPL dkh 100
KFPM 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
KTSM ak 100
KXRO ak 100
WAML ak 100
WBFO ae 100
WBOW ak 100 (.25)
WBRE ak 100
WCLS ae 100
WCMJ z 100 DP
WDAH ak 100 S
WEBR ae 100 (.25)
WEXL ak 50
WFBG ae 100 3
WDFD am 100
WGH ae 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
WROL 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

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.
Kaliapell, 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.
Philad elphia, 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.

1320 kilocycles 227.1 meters

CMCK z 100 P
CMOX z 250
KGHP ak 500
KGM B ak 250 C
KID ae 250 (.5)
KRNT ak 500 C (.5)
WADC ae 1000 C (2.5)
WORB ak 1000
WSMB ak 1000 N

Havana, Cuba
Havana, Cuba
Pueblo, Colo.
Honolulu, T. H.
Idaho Falls, Idaho
Des Moines, Iowa
Akron, Ohio
York, Pa.
New Orleans, La.

1330 kilocycles 225.4 meters

CMHK z 250
KGB ag 1000 C (2.5)
KMO ak 250
KSCJ aj 1000 1C (2.5)

Cruces, Cuba
San Diego, Calif.
Tacoma, Wash.
Slour City, Iowa

WDRG ae 1000 C (2.5)
WSAI ak 1000 R (2.5)
WTAQ ae 1000 1

Hartford, Conn.
Cincinnati, Ohio
Eau Claire, Wis.

1340 kilocycles 223.7 meters

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

Spokane, Wash.
Huron, S. D.
Dodge City, Kana.
Pensacola, Fla.
Manchester, N. H.
Toledo, Ohio
Orizaba, Ver.

1350 kilocycles 222.1 meters

CMCA z 435
KIDO ak 1000 (.25)
KWK ak 1000 B (5)
WAWZ ae 500 1 (1)
WBNX ae 250 1

Havana, Cuba
Boise, Idaho
St. Louis, Mo.
Zarephath, N. J.
New York, N. Y.

1360 kilocycles 220.4 meters

CMJH ak 50
KGER ak 1000
KGR ak 1000 N (2.5)
WCSG ae 500 (1)
WFBL ak 1000 C (5)
WGES ae 500 1
WQBC ak 1000 D
WSBT ak 500 1

Ciego de Avila, Cuba
Long Beach, Calif.
Butte, Mont.
Charleston, S. C.
Syracuse, N. Y.
Chicago, Ill.
Vicksburg, Miss.
South Bend, Ind.

1370 kilocycles 218.8 meters

CKCW z 100 F
CMGE z 30
KCRC ak 100 2 (.25)
KELD z 100 P
KERN ak 100
KFQO ak 100
KFJM ak 100 (.25)
KFJZ ae 100
KFRO z 100 D
KGRAR ae 100 (.25)
KGF ak 100 2
KGFL ak 100 4
KGKL ak 100 (.25)
KICA 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 1
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
WHBO 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
WPA Y ak 100
WPFB ak 100
WQDM ae 100 D
WRAC ak 100 (.25)

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.
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Decatur, Ala.
Davenport, Iowa
Portsmouth, Ohio
Hattiesburg, Miss.
St. Albans, Vt.
Williamsport, Pa.

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<p>WRDO ae 100 WRJN ak 100 WSVS ak 50 D XEFZ ae 100 XFI ak 125 XEZZ z 100 z 100 DP</p>	<p>Augusta, Maine Racine, Wis. Buffalo, N. Y. Mexico City, D. F. Morelia, Mich. 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 z 100 WKBI ak 100 WLAP ak 100 (.25) WLBK 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>
1380 kilocycles 217.3 meters		
<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. Pittsburgh, Pa. LaCrosse Wis. New Britain, Conn. Dayton, Ohio</p>	
1390 kilocycles 215.7 meters		
<p>CJRC ck 100 F HIIH ak 15 1395 KLRA ae 1000 C (2.5) KOY ae 500 (1) WHK ae 1000 C (2.5)</p>	<p>Winnipeg, Man. San Ped. de Macoris, DR Little Rock, Ark. Phoenix, Ariz. Cleveland, Ohio</p>	
1400 kilocycles 214.2 meters		
<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 WFWF 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>	
1410 kilocycles 212.6 meters		
<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>	
1420 kilocycles 211.1 meters		
<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 ak 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>	
1430 kilocycles 209.7 meters		
<p>CMJP ak 75 KECA ak 1000 (5) KGNF ak 100 D WBNS ae 500 C (1) WHCC ae 500 C (1) WIIP ak 500 C (1) WNBR ae 500 (1) WOKO ae 500 C (1)</p>	<p>Moron, Cuba Los Angeles, Calif. North Platte, Neb. Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn. Albany, N. Y.</p>	
1440 kilocycles 208.2 meters		
<p>KDFN ak 500 KLS ae 250 D KXYZ ak 1000 WBIG ae 500 C (1) WBCA aj 500 a WMBD ae 500 C (1) WSN aj 500 a XEFI ae 250</p>	<p>Casper, Wyo. Oakland, Calif. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, Ill. Allentown, Pa. Chihuahua, Chih.</p>	
1450 kilocycles 206.8 meters		
<p>CFCT ae 75 CHGS ae 50 F KTBS ck 1000 N WGAR ak 500 B (1) WHOM ae 250 WSAR ae 250 WTFI ak 500</p>	<p>Victoria, B. C. Summerside, P.E.I. Shreveport, La. Cleveland, Ohio Jersey City, N. J. Fall River, Mass. Athens, Ga.</p>	
1460 kilocycles 205.4 meters		
<p>CMKF z 30 KSTP ae 10000 N (25) WJSV ak 10000 C</p>	<p>Holquin, Cuba St. Paul, Minn. Washington, D. C.</p>	
1470 kilocycles 204.0 meters		
<p>KGA ak 5000 N (2.5) WLAC ak 5000 C</p>	<p>Spokane, Wash. Nashville, Tenn.</p>	
1480 kilocycles 202.6 meters		
<p>KOMA ak 5000 C WKBW ae 5000 C</p>	<p>Oklahoma City, Ok. Buffalo, N. Y.</p>	
1490 kilocycles 201.2 meters		
<p>WCKY ae 5000 B</p>	<p>Covington, Ky.</p>	

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1500 kilocycles

CNCN	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)
WHBF	z	100	(.25)
WJBK	ae	100	(.25)
WBBB	ae	100	(.25)
WKBV	ak	100	(.25)
WKBZ	ak	100	(.25)
WKEU	ak	100	.....

199.9 meters

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.	.....
Detroit, Mich.	.....
Des Moines, Iowa	.....
Richmond, Ind.	.....
Muskegon, Mich.	.....
Griffin, Ga.	.....

WMBO	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

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

198.6 meters

Kingston, Ont.	.....
Waterloo, Ont.	.....

1530 kilocycles

WIXBS	z	1000	A
W9XBY	z	1000	.....

196.0 meters

Waterbury, Conn.	.....
Kansas City, Mo.	.....

1550 kilocycles

W2XR	z	1000
W6XAI	z	1000

193.4 meters

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

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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.

<p style="text-align: center;">ALABAMA</p> <p>Birmingham</p> <p>WAPI 1140 5000 N</p> <p>WBRC 930 1000 C</p> <p>WSCN 1310 100</p> <p>Decatur</p> <p>WMFO 1370 100</p> <p>Dothan</p> <p>WAGF 1370 100</p> <p>Gadsden</p> <p>WJBY 1210 100</p> <p>Mobile</p> <p>WALA 1380 500 C</p> <p>Montgomery</p> <p>WSFA 1410 500 C</p> <p>Muscle Shoals</p> <p>WNRA 1420 100</p> <p style="text-align: center;">ALASKA</p> <p>Anchorage</p> <p>KFQD 780 250</p> <p>Juneau</p> <p>KINY 610 250</p> <p>Ketchikan</p> <p>KGBU 900 500</p> <p style="text-align: center;">ARIZONA</p> <p>Jerome</p> <p>KCRJ 1310 100</p> <p>Lowell</p> <p>KSUN 1200 100</p> <p>Phoenix</p> <p>KOY 1390 500</p> <p>KTAR 620 1000 N</p> <p>Prescott</p> <p>KPJM 1500 100</p> <p>Tucson</p> <p>KGAR 1370 100</p> <p>KVOA 1260 500</p> <p>Yuma</p> <p>KUMA 1420 100</p> <p style="text-align: center;">ARKANSAS</p> <p>Blytheville</p> <p>KLCN 1290 100</p> <p>El Dorado</p> <p>KELD 1370 100</p> <p>Fayetteville</p> <p>KUOA 1260 1000</p> <p>Fort Smith</p> <p>KFPW 1210 100</p>	<p style="text-align: center;">Hot Springs</p> <p>KTHS 1060 10000 N</p> <p>Jonesboro</p> <p>KBTM 1200 100</p> <p>Little Rock</p> <p>KARK 890 250</p> <p>KGHI 1200 100</p> <p>KLRA 1390 1000 C</p> <p>Pine Bluff</p> <p>KOTN 1500 100</p> <p>Texarkana</p> <p>KCMC 1420 100</p> <p style="text-align: center;">CALIFORNIA</p> <p>Bakersfield</p> <p>KERN 1370 100 C</p> <p>W6XAI 1550 1000</p> <p>Berkeley</p> <p>KRE 1370 100</p> <p>Beverly Hills</p> <p>KMPK 710 500</p> <p>Burbank</p> <p>KELV 780 500</p> <p>Chico</p> <p>KHSL 950 250</p> <p>El Centro</p> <p>KXO 1500 100</p> <p>Eureka</p> <p>KTEM 1210 100</p> <p>Fresno</p> <p>KMJJ 580 1000 C</p> <p>Glendale</p> <p>KIEV 850 250</p> <p>Hollywood</p> <p>KFWB 950 1000</p> <p>KMTR 570 1000</p> <p>KNX 1050 50000</p> <p>Long Beach</p> <p>KFOJ 1250 1000</p> <p>KGER 1360 1000</p> <p>Los Angeles</p> <p>KECA 1430 1000</p> <p>KEAC 1300 1000</p> <p>KFI 640 50000 N</p> <p>KFSQ 1120 1000</p> <p>KFVJ 1000 250</p> <p>KGFJ 1200 100</p> <p>KHJ 900 1000 C</p> <p>KRKD 1120 1000</p> <p>KTM 780 500</p>	<p style="text-align: center;">Moderate</p> <p>KTRB 740 250</p> <p>Oakland</p> <p>KLS 1440 250</p> <p>KLX 880 1000</p> <p>KROW 930 1000</p> <p>Pasadena</p> <p>KPPC 1210 50</p> <p>Sacramento</p> <p>KFBK 1310 100 C</p> <p>San Bernardino</p> <p>KFXM 1210 100</p> <p>San Diego</p> <p>KFSD 600 1000 N</p> <p>KGB 1330 1000 C</p> <p>San Francisco</p> <p>KFRG 610 1000 C</p> <p>KGGC 1420 100</p> <p>KGO 790 7500 N</p> <p>KJBS 1070 500</p> <p>KPO 680 50000 N</p> <p>KTAB 560 1000</p> <p>KYA 1230 1000 N</p> <p>San Jose</p> <p>KQW 1010 1000</p> <p>Santa Ana</p> <p>KREG 1500 100</p> <p>Santa Barbara</p> <p>KDB 1500 100 C</p> <p>Stockton</p> <p>KGDM 1100 1000</p> <p>KWG 1200 100 C</p> <p style="text-align: center;">COLORADO</p> <p>Alamosa</p> <p>KGIW 1420 100</p> <p>Colorado Springs</p> <p>KVOR 1270 1000 C</p> <p>Denver</p> <p>KFEL 920 500</p> <p>KLZ 560 1000 C</p> <p>KOA 830 50000 N</p> <p>KPOF 880 500</p> <p>KVOD 920 500</p> <p>Grand Junction</p> <p>KFXJ 1200 100</p> <p>Greeley</p> <p>KFKA 880 500</p> <p>Lamar</p> <p>KIDW 1420 100</p>	<p style="text-align: center;">Pueblo</p> <p>KGHF 1320 500</p> <p>Sterling</p> <p>KGFK 1200 100</p> <p style="text-align: center;">CONNECTICUT</p> <p>Bridgeport</p> <p>WICC 600 500 C</p> <p>Hartford</p> <p>WDRG 1330 1000 C</p> <p>WTIC 1040 50000 R</p> <p>New Britain</p> <p>WMFE 1380 250</p> <p>New Haven</p> <p>WMFI 900 500</p> <p>Storrs</p> <p>WCAC 600 500</p> <p>Waterbury</p> <p>WATR 1190 100</p> <p>WIXBS 1530 1000 A</p> <p style="text-align: center;">DELAWARE</p> <p>Wilmington</p> <p>WDEL 1120 250 A</p> <p>WILM 1420 100</p> <p style="text-align: center;">DISTRICT OF COLUMBIA</p> <p>Washington</p> <p>WJSV 1460 10000 C</p> <p>WMAL 630 250 B</p> <p>WOL 1310 100 A</p> <p>WRC 950 500 R</p> <p style="text-align: center;">FLORIDA</p> <p>Clearwater</p> <p>WFLA 620 1000 N</p> <p>Daytona Beach</p> <p>WVFJ 1420 100</p> <p>Gainesville</p> <p>WRUF 830 5000</p> <p>Jacksonville</p> <p>WJAX 900 1000 N</p> <p>WMBR 1370 100 C</p> <p>Miami</p> <p>WIOD 1300 1000 N</p> <p>WQAM 560 1000 C</p> <p>Orlando</p> <p>WDBO 580 1000 C</p> <p>Pensacola</p> <p>WCOA 1340 500 C</p>
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WSUN 620 1000 N	WCLS 1310 100	KIUL 1210 100	WLLH 1370 100	
Tallahassee	Peoria	Hutchinson	New Bedford	
WTAL 1310 100	WMBD 1440 500 C	KWBG 1420 100	WNBH 1310 100 C	
Tampa	Quincy	Kansas City	Springfield	
WDAE 1220 1000 C	WTAD 900 500	WLBK 1420 100	WBZA 990 1000 B	
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WGPC 1420 100	WROK 1410 500	KFKU 1220 1000	Worcester	
Athens	Rock Island	WREN 1220 1000 B	WORC 1280 500 C	
WTFI 1450 500	WHBF 1210 100	Manhattan	WTAG 580 500 R	
Atlanta	Springfield	KSAC 580 500	MICHIGAN	
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WJTL 1370 100	WTAX 1210 100	WIBW 580 1000 C	WELL 1420 100	
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WRDW 1500 100	Urbana	KENTUCKY		
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WRBL 1200 100	Waukegan	WCMH 1310 100	WHDF 1370 100	
Griffin	WCBG 1080 5000	Covington	Detroit	
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WMAZ 1180 1000	WBHU 1210 100	Lexington	WJR 750 10000 B	
Rome	Elkhart	WLAP 1420 100	WMBC 1420 100	
WRGA 1500 100	WTRC 1310 50	Louisville	WWJ 920 1000 R	
Savannah	Evansville	WAVE 940 1000 N	WXYZ 1240 1000	
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WPAX 1210 100	WGL 1370 100 C	WPAD 1420 100	Flint	
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KFXD 1200 100	South Bend	WWL 850 10000	Lapeer	
Pocatello	WFAM 1200 100	Shreveport	WMPC 1200 100	
KSEJ 890 250	WSBT 1360 500 C	KRMD 1310 100	Marquette	
Twin Falls	Terre Haute	KTBS 1450 1000 N	WBEQ 1310 100	
KTFI 1240 1000	WBOW 1310 100	KWEA 1210 100	Muskegon	
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WJBC 1200 100	WBAA 890 1000	MAINE		
Carthage	Ames	Augusta	WEXL 1310 50	
WCAX 1070 100	WOI 640 5000	WRDO 1370 100	MINNESOTA	
Chicago	Boone	Bangor	Fergus Falls	
WAAF 920 500	KFGQ 1370 100	WABI 1200 100	KGDE 1200 100	
WBBM 770 50000 C	Cedar Rapids	WLBZ 620 500 C	Hibbing	
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WENR 870 50000 N	Davenport	WAGM 1420 100	WDGY 1180 1000	
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WJJD 1130 20000	KGCA 1270 100	WBAL 1060 10000 B	Moorhead	
WLS 870 50000 N	KWLK 1270 100	WCAO 600 500 C	KGFK 1500 100	
WMAQ 670 50000 N	Des Moines	WCBM 1370 100 A	Northfield	
WMBT 1080 5000	KRNT 1320 500 C	WFBR 1270 500 R	WCAL 1250 1000	
WSBC 1210 100	WHO 1000 50000 R	Cumberland	Rochester	
Cicero	Iowa City	WTBO 800 250	KROC 1310 100	
WEHS 1420 100	WSU 880 500	Frederick	St. Paul	
WHFC 1420 100	Marshalltown	WFMD 900 500	KSTP 1460 10000 N	
WKBI 1420 100	WJEJ 1210 100	MASSACHUSETTS		
Decatur	WJFB 1200 100	Babson Park	Clarkdale	
WJBL 1200 100	Shenandoah	WBSO 920 500	WMTN 1210 100	
East Dubuque	KMFA 890 500	Boston	Hattiesburg	
WKBB 1500 100	KMA 930 1000	WAB 1410 500 C	WFPB 1370 100	
East St. Louis	St. Louis City	WBZ 990 50000 B	Jackson	
WTMY 1500 100	KSCJ 1330 1000 C	WEBI 590 1000 R	WJDX 1270 1000 N	
Harrisburg	KANSAS			
WBEQ 1210 100	Abilene	WHDH 830 1000 A	Kosciusko	
	KFBT 1050 5000	WMEX 1500 100 A	WHEF 1500 100	
	Coffeyville	WMFH 1120 500	Laurel	
	KGGF 1010 1000	WNAK 1230 1000 C	WAML 1310 100	
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			Mississippi City	
			WGCM 1210 100	

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Cape Girardeau KFVS 1210 100	WHOM 1450 250	Syracuse WFBL 1360 1000 C	Ardmore KIUO 1210 100
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Jefferson City WOS 630 500	WNEW 1250 1000 A	Troy WHAZ 1300 500	Enid KCRC 1370 100
Joplin WMBH 1420 100	WOR 710 50000	Utica WIBX 1200 100 C	Norman WNAD 1010 1000
Kansas City KMBC 950 1000 C	Red Bank WBRB 1210 100	White Plains WFAS 1210 100	Oklahoma City KFXR 1310 100
KWKC 1370 100	Trenton WTNJ 1280 500 A	Woodside WWRL 1500 100	KGFG 1370 100
WDAF 610 1000 R	Zarephath WAWZ 1350 500	NORTH CAROLINA	KOMA 1480 5000 C
WHB 860 1000	NEW MEXICO	Ashville WWNC 570 1000 N	WKY 900 1000 N
W9XB 1530 1000	Albuquerque KGGM 1230 250	Charlotte WBT 1080 50000 C	Ponca City WBBZ 1200 100
St. Joseph KFEQ 680 2500	KOB 1180 10000	WSOC 1210 100 N	Shawnee KGFF 1420 100
St. Louis KFUO 550 500	Clevis KICA 1370 100	Wilmington WSPC 1210 100 N	Tulsa KTUL 1400 500 C
KFMO 1090 50000 C	Roswell KGFL 1370 100	Durham WDNC 1500 100 C	KVVO 1140 25000 N
KSD 550 1000 R	Santa Fe KIUF 1310 100	Greensboro WBG 1440 500 C	OREGON
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WEW 760 1000	Albany WABY 1370 100	Rocky Mount WEED 1420 100	Corvallis KOAC 550 1000
WIL 1200 100	WOKO 1430 500 C	Wilmington WFMD 1370 100	Eugene KORE 1420 100
1500 100	Auburn WMBO 1310 100	Winston-Salem WSJS 1310 100 C	Klamath Falls KFJI 1210 100
Springfield KGBX 1230 500	WBNF 1500 100 C	NORTH DAKOTA	Marshfield KOOS 1200 100
KWTO 560 1000	Brooklyn WARD 1400 500	Bismarck KFYR 550 1000 N	Medford KMEF 1310 100
MONTANA	WBBG 1400 500	Devils Lake KDLR 1210 100	Portland KALE 1300 500 C
Billings KGHL 780 1000 N	WBNR 1300 1000	Fargo WDAY 940 1000 N	KBPS 1420 100
Butte KGIR 1360 1000 N	WLTH 1500 100	Grand Forks KFJM 1370 100	KEX 1180 5000 N
Great Falls KFBB 1280 1000	WMBQ 1500 100	Mandan KGCU 1240 250	KFJR 1300 500
Kallispell KGEZ 1310 100	WVFW 1400 500	Minot KLPM 1240 250	KGW 620 1000 N
Missoula KGVO 1260 1000	Buffalo WBN 900 1000 R	OHIO	KOIN 940 1000 C
Wolli Point KGCX 1310 100	WBR 1310 100	Akron WADC 1320 1000 C	KWJJ 1040 500
NEBRASKA	WGR 550 1000 C	WJW 1210 100	KXL 1420 100
Clay Center KMMJ 740 1000	WKBW 1480 5000 C	Canton WHBC 1200 100	Salem KSLM 1370 100
Kearney KGFV 1310 100	WVS 1370 50	Cincinnati WFBE 1200 100	PENNSYLVANIA
Lincoln KFAB 770 10000 C	WCAD 1220 500	WKRK 550 1000 C	Allentown WCBA 1440 500
KFOR 1210 100 C	Chester WGNV 1210 100	WLW 700 500000 N	WSAN 1440 500
Norfolk WJAG 1060 1000	Elmira WESG 850 1000	WSAI 1330 1000 R	Altoona WFBG 1310 100
North Platte KGNF 1430 1000	Freeport WGBB 1210 100	Cleveland WGAR 1450 500 B	Clarion WWPA 850 250
Omaha WAAW 660 500	Jamestown WOGL 1210 50	WJK 1390 1000 C	Erie WLEU 1420 100
WOW 590 1000 R	Long Island City W2XR 1550 1000	WJAY 610 500	Glenside WIBG 970 100
Scottsbluff KGKY 1500 100	New York WABC 860 50000 C	WTAM 1070 50000 R	Greensburg WHP 1430 500 C
York KGBZ 930 1000	WBNX 1350 250	Columbus WAIU 640 500	WKBK 1200 100
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 WIBU 1210 100
Racine
 WRJN 1370 100
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 WHBL 1410 500
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 WLBL 900 2500
Superior
 WEBC 1290 1000 N
WYOMING
Casper
 KDFN 1440 500
Sheridan
 KWYO 1370 100
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ALBERTA
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 GJGJ 690 100 F
Edmonton
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 GJCA 730 1000 F
 KCUA 580 500
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 CJOC 1230 100 F
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 CHWK 780 100 F
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 CKOV 630 100 F
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 CKDC 1010 100
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 CKMO 1410 100 F
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Aklavik
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 CJCB 1240 1000 F
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 CKIC 1010 50

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CFAC	930	100	Calgary, Alta.
			Calgary Herald, Southam Bldg.
CFCF	600	400	Montreal, Que.
			Mt. Royal Hotel
CFCH	930	100	North Bay, Ont.
			Capitol Theatre Bldg.
CFCN	1030	10000	Calgary, Alta.
			Toronto Gen. Trust Bldg.
CFCO	1050	100	Chatham, Ont.
			Wm. Pitt Hotel
CFCT	1450	75	Victoria, B. C.
			620 View St.
CFCY	630	1000	Charlottetown, P.E.I.
			143 Great George St.
CFJC	880	100	Kamloops, B. C.
			Wilcox-Hall Bldg.
CFLC	930	100	Prescott, Ont.
			Hoy Bldg., 307 George St.
CFNB	550	1000	Fredericton, N. B.
			York St.
CFPL	730	100	London, Ont.
			Richmond St.
CFQC	840	1000	Saskatoon, Sask.
			216 First Ave., No.
CFRB	690	10000	Toronto, Ont.
			37 Bloor St. W.
CFRC	1510	100	Kingston, Ont.
			Queens University
CFRN	1260	100	Edmonton, Alta.
			Birks Bldg.
CHAB	1200	100	Moose Jaw, Sask.
			Grant Hall Hotel
CHCK	1310	50	Charlottetown, P.E.I.
			36 Upper Hillsboro St.
CHGS	1450	50	Summerside, P. E. I.
			190 Water St.
CHLP	1120	100	Montreal, Que.
			Sun Life Bldg.
CHML	1010	50	Hamilton, Ont.
			47 Main St. E.
CHNC	1210	100	New Carlisle, Que.
			Gaspestan Radio Brdcastg. Co.
CHNS	930	1000	Halifax, N. S.
			Lord Nelson Hotel
CHRC	580	100	Quebec, Que.
			CHRC, Ltd., Victoria Hotel
CHSJ	1120	100	St. John, N. B.
			Admiral Beatty Hotel
CHWC	1010	500	Regina, Sask.
			Williams Building
CHWK	780	100	Chilliwack, B. C.
			Wellington Ave.
CJAT	910	250	Trail, B. C.
			Kootenay Brdcastg. Co.
CJCA	730	500	Edmonton, Alta.
			10122—100A St.
CJCB	1248	1000	Sydney, N. S.
			318 Charlotte St.
CJCJ	690	100	Calgary, Alta.
			New Albertan Bldg.
CJCU	1210	50	Aklavik, N. W. T.
			Dr. J. A. Urquhart, Dept. of Interior
CJGX	690	500	Yorkton, Sask.
			188 Grain Exchange Bldg. (Winnipeg)
CJIC	890	100	S. Ste. Marie, Ont.
			Windsor Hotel
CJKL	1310	100	Kirkland Lake, Ont.
			O. J. Thorpe
CJLS	1310	100	Yarmouth, N. S.
			Laurie L. Smith, Grand Hotel
CJOC	1230	100	Lethbridge, Alta.
			Marquis Hotel

CJOR	600	500	Vancouver, B. C.
			G. C. Chandler, Hotel Grosvenor
CJRC	1390	100	Winnipeg, Man.
			Royal Alexandra Hotel
CJRM	540	1000	Moose Jaw, Sask.
			311 Main St. No.
CKAC	730	5000	Montreal, Que.
			980 St. Catherine St. W.
CKBI	1210	100	Prince Albert, Sask.
			Canada Bldg.
CKCD	1010	100	Vancouver, B. C.
			142 Hastings St. W.
CKCH	1210	100	Hull, Que.
			Standish Hall Hotel
CKCK	1010	500	Regina, Sask.
			1853 Hamilton St.
CKCL	580	100	Toronto, Ont.
			444 University Ave.
CKCO	1010	100	Ottawa, Ont.
			272 Somerset St. W.
CKCR	1510	100	Waterloo, Ont.
			24 King St. So.
CKCV	1310	50	Quebec, Que.
			254 Ave. Marguerite
CKCW	1370	100	Moncton, N. B.
			Moncton Brdcastg. Co., Ltd.
CKFC	1410	50	Vancouver, B. C.
			Hemlock & 12th Ave.
CKGB	1420	100	Timmins, Ont.
			R. H. Thompson, Press Bldg.
CKIC	1010	50	Wolfville, N. S.
			Acadia University
CKLW	1030	5000	Windsor, Ont.
			Guaranty Trust Bldg.
CKMC	1210	50	Cobalt, Ont.
			R. L. MacAdam
CKMO	1410	100	Vancouver, B. C.
			1604 Bekins Bldg.
CKNC	1420	100	Toronto, Ont.
			805 Davenport Road
CKOC	1120	500	Hamilton, Ont.
			Wentworth Bldg.
CKOV	630	100	Kelowna, B. C.
			Okanagan Broadcasters, Ltd., Box 243
CKPC	930	100	Brantford, Ont.
			Arcade Bldg.
CKPR	930	100	Fort William, Ont.
			Roya Edward Hotel
CKSO	780	1000	Sudbury, Ont.
			W. E. Mason, Grand Theatre Bldg.
CKTB	1200	100	St. Catharines, Ont.
			E. T. Sandell, Welland House
CKUA	580	500	Edmonton, Alta.
			University of Alberta.
CKWX	1010	100	Vancouver, B. C.
			Hotel Georgia
CKX	1120	100	Brandon, Man.
			Rosser Ave.
CKY	960	15000	Winnipeg, Man.
			Sherbrooke St.
CMAF	730	250	Havana, Cuba
			1 y 8 Rept. Miramar
CMBC	940	195	Havana, Cuba
			Domingo Fernandez, Maximo Gomez No. 139
CMBD	1170	163	Havana, Cuba
			Luis Perez Garcia
CMBG	1140	325	Havana, Cuba
			John L. Stowers, Hospital No. 100
CMBS	770	130	Havana, Cuba
			Calzada y H. St., Vedado
CMBX	1380	171	Havana, Cuba
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CMC 835 500	Havana, Cuba Agulla y Dragones	CMJL 960 50	Camaguey, Cuba Enrique Artime, Cuba No. 27
CMCA 1350 435	Havana, Cuba Galano No. 102	CMJO 1180 50	Ciego de Avila, Cuba Jose M. Rey .C. Central & Maceo
CMCB 1230 112	Havana, Cuba O'Reilly y Aguacate	CMJP 1430 75	Moron, Cuba Cesar Canall, Callejas No. 28
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CMCN 1500 162	Havana, Cuba Reina y Ave. Buen Ritiroe, Mariano	CMOA 790 72	Havana, Cuba Juan Fernandez, Aguiar 126, Altes
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CMCQ 680 250	Havana, Cuba Vista Alegre No. 80, Vibora	CMQ 840 500	Havana, Cuba 25 Numero 445, Vedado
CMCR 1410 122	Havana, Cuba Milagros No. 35, Vibora	CMW 600 100	Havana, Cuba Paseo de Marti 103
CMCU 1280 152	Havana, Cuba San Francisco No. 13, Vibora	CMX 928 650	Havana, Cuba Casa "Lavin," Ave. dela Republica 99A
CMCW 750 117	Havana, Cuba Galano y San Lazaro Sts.	CRCK 1050 1000	Quebec, Que. Chateau Frontenac Hotel
CMCX 660 250	Havana, Cuba Maceo No. 7, Guanabacoa	CRCM 910 5000	Montreal, Que. 1231 St. Catherine St. W
CMCY 1030 1000	Havana, Cuba Manuel D. Autran, Calle G 215, Vedado	CRCO 880 1000	Ottawa, Ont. Chateau Laurier Hotel
CMCG 1400 100	Matanzas, Cuba Independencia No. 56	CRCS 950 100	Chicoutimi, Que. 4 Rue Larouche
CMGE 1370 30	Cardenas, Cuba Genaro Sebater, Cespedes No. 180	CRCT 840 5000	Toronto, Ont. 805 Davenport Road
CMGF 1120 100	Matanzas, Cuba G. Betancourt No. 51	CRCV 1100 1000	Vancouver, B. C. C. N. R. Station Bldg.
CMGH 1040 15	Matanzas, Cuba B. Byrne No. 113	CRCW 600 1000	Windsor, Ont. Guaranty Trust Bldg.
CMGI 1420 30	Colon, Cuba Armando Linanza, Marti No. 35	FQN 609 250	St. Pierre, Miq.
CMHA 1070 50	Sagua Grande, Cuba Abelardo Menocal, Carrillo No. 1	HHK 920 1000	Port-au-Prince, Haiti Haitian Government
CMHB 1240 30	San Spiritus, Cuba Independencia No. 33	HIH 1395 15	San Pedro de M., D.R Domingo Dominguez
CMHD 1270 250	Calbarlen, Cuba Manuel Alvarez, M. Escobar 17	HIJ 1195 15	Santo Domingo, D. R. Tuto Baez, Hostos 34
CMHI 1210 150	Santa Clara, Cuba Lavis y Paz, Independencia No. 34	HIX 1270 1000	Santo Domingo, D. R. J. R. Saladin, Director General
CMHJ 1180 100	Cienfuegos, Cuba Romoualde Ugalde, Sta. Elena 104	HIZ 1300 10	Santo Domingo, D. R. Abbes and Garcia
CMHK 1330 250	Cruces, Cuba Heredia No. 61	KABC 1420 100	San Antonio, Texas Texas Theatre Bldg.
CMHW 810 100	Cienfuegos, Cuba Arguelles No. 200	KABR 1420 100	Aberdeen, S. Dak. Aberdeen Broadcast Co.
CMJC 1380 150	Camaguey, Cuba Cisneros y G. Gomez	KADA 1200 100	Ada, Okla. C. C. Morris
CMJE 1220 50	Camaguey, Cuba Manuel Fernandez, Pinos, Aguere No. 2	KALE 1300 500	Portland, Ore. Kale, Inc., New Heathman Hotel
CMJF 1150 200	Camaguey, Cuba John L. Stowers, Republica No. 88	KARK 890 250	Little Rock, Ark. N. S. L. Bldg.
CMJG 1010 50	Camaguey, Cuba Maceo No. 1	KASA 1210 100	Elk City, Okla. E. M. Woody, Casa Grande Hotel
CMJH 1360 50	Ciego de Avila, Cuba Luis Maraurl, H. Castilla 37	KBPS 1420 100	Portland, Ore. E. 12th & Hoyt Sts.

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KBTM 1200	100	Jonesboro, Ark. Jay P. Beard	KFOR 1210	100	Lincoln, Neb. Howard Shuman, Hotel Lincoln
KCMC 1420	100	Texarkana, Ark. Box 865	KFOX 1250	1000	Long Beach, Calif. 220 E. Anaheim St.
KCRC 1370	100	Enid, Okla. Enid Radiophone Co., Oxford Hotel	KFPL 1310	100	Dublin, Texas C. C. Baxter, Box 178
KCRJ 1310	100	Jerome, Ariz. Chas. C. Robinson, Drawer D.	KFPM 1310	15	Greenville, Texas New Furniture Co.
KDB 1500	100	Santa Barbara, Calif. 15-17 E. Haley St.	KFPW 1210	100	Fort Smith, Ark. Goldman Hotel
KDFN 1440	500	Casper, Wyo. Donald Lewis Hathaway	KFPY 1340	1000	Spokane, Wash. Symons Bldg.
KDKA 980	50000	Pittsburgh, Pa. Hotel Wm. Penn	KFQD 780	250	Anchorage, Alaska 411—4th Ave.
KDLR 1210	100	Devils Lake, N. D. KDLR, Inc., 1025 3rd Street	KFRC 610	1000	San Francisco, Calif. 1000 Van Ness Ave.
KDYL 1290	1000	Salt Lake City, Utah Ezra Thompson Bldg.	KFRO 1370	100	Longview, Texas Voice of Longview
KECA 1430	1000	Los Angeles, Calif. 1000 S. Hope St.	KFRU 630	500	Columbia, Mo. KFRU, Inc., 9th and Elm Sts.
KELD 1370	100	El Dorado, Ark. T. H. Barton	KFSO 600	1000	San Diego, Calif. U. S. Grant Hotel
KELW 780	500	Burbank, Calif. 3702 Magnolia Park Blvd.	KFSG 1120	1000	Los Angeles, Calif. 1100 Glendale Blvd.
KERN 1370	100	Bakersfield, Calif. Elk's Club	KFUO 550	500	St. Louis, Mo. 801 De Mun St.
KEX 1180	5000	Portland, Ore. Oregonian Bldg.	KFVD 1000	250	Los Angeles, Calif. E. L. Cord, 645 S. Mariposa
KFAB 770	10000	Lincoln, Neb. Cornhusker Hotel	KFVS 1210	100	Cape Girardeau, Mo. Oscar C. Hirsch, Box 275
KFAC 1300	1000	Los Angeles, Calif. E. L. Cord, 645 So. Mariposa	KFWB 950	1000	Hollywood, Calif. Warner Bros. Motion Pictures, Inc.
KFBB 1280	1000	Great Falls, Mont. Buttrety Broadcast., Inc.	KFXD 1200	100	Nampa, Idaho Frank E. Hurt, 1024 12th Ave., S.
KFBI 1050	5000	Abilene, Kans. Box 345	KFXJ 1200	100	Grand Jct., Colo. Hillcrest Manor
KFBK 1310	100	Sacramento, Calif. Sacramento Bee	KFXM 1210	100	San Bernardino, Calif. California Hotel
KFDM 560	500	Beaumont, Texas Beaumont Hotel, P. O. Box 2950	KFXR 1310	100	Oklahoma City, Okla. 541 Hightower Bldg.
KFDY 780	1000	Brookings, S. D. South Dakota State College	KFYO 1310	100	Lubbock, Texas Kirksey Bros., Hotel Lubbock
KFEL 920	500	Denver, Colo. Albany Hotel	KFYR 550	1000	Bismarck, N. D. 320 Broadway
KFEQ 680	2500	St. Joseph, Mo. Schneider Bldg.	KGA 1470	5000	Spokane, Wash. 1023 W. Riverside Ave.
KFGQ 1370	100	Boone, Iowa 924 W. 2nd St.	KGAR 1370	100	Tucson, Ariz. 142 S. 6th Ave.
KFH 1300	1000	Wichita, Kans. 124 1/2 S. Market St.	KGB 1330	1000	San Diego, Calif. 1012—1st St.
KFI 640	50000	Los Angeles, Calif. 1000 S. Hope St.	KGBU 900	500	Ketchikan, Alaska Mile 5, Wards Cove Rd.
KFIO 1120	100	Spokane, Wash. 213 Riverside Ave.	KGBX 1230	500	Springfield, Mo. KGBX, Inc., C. of C. Bldg.
KFIZ 1420	100	Fond du Lac, Wis. 18 W. 1st St.	KGBZ 930	1000	York, Neb. KGBZ Broadcasting Co., 715 Grant Ave.
KFJB 1200	100	Marshalltown, Iowa 1603 W. Main St.	KGCA 1270	100	Decorah, Iowa Charles W. Greenley, 201 Water St.
KFJI 1210	100	Klamath Falls, Ore. KFJI Broadcasters, Inc., Willard Hotel	KGCU 1240	250	Mandan, N. D. 404 W. Main St.
KFJM 1370	100	Grand Forks, N. D. University of North Dakota	KGCC 1310	100	Wolf Point, Mont. E. E. Krebsbach
KFJR 1300	500	Portland, Ore. 622 Lumbermen's Bldg.	KGDE 1200	100	Fergus Falls, Minn. C. L. Jaren
KFJZ 1370	100	Fort Worth, Texas Texas Hotel	KGDM 1100	1000	Stockton, Calif. E. F. Pepper, 42 S. Calif. St.
KFKA 880	500	Greeley, Colo. Box 735	KGDY 1340	250	Huron, S. D. Voice of S. D., Inc., 347 Dakota Ave.
KFKU 1220	1000	Lawrence, Kans. University of Kansas	KGEM 1200	100	Sterling, Colo. Elmer G. Beeher, 109 W. 2nd St.
KFNF 890	500	Shenandoah, Iowa 407 Sycamore St.	KGER 1360	1000	Long Beach, Calif. 435 Pine Ave.

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KGEZ 1310 100 Kallapell, Mont. Donald C. Treloar, Box 1	KIDO 1350 1000 Boise, Idaho Hotel Boise
KGFF 1420 100 Shawnee, Okla. 9th & Bell Sts.	KIDW 1420 100 Lamar, Colo. Lamar Broadcasting Co., Box 688
KGFG 1370 100 Oklahoma City, Okla. Okla. Broadcasting Co., 1113 N. Broadway	KIEM 1210 100 Eureka, Calif. Redwood Bdstg. Co., Vance Hotel
KGFI 1500 100 Corpus Christi, Texas Eagle Broadcasting Co., Inc., P. O. Box 1608	KIEV 850 250 Glendale, Calif. Cannon System, Ltd., Glendale Hotel
KGFI 1200 100 Los Angeles, Calif. Ben S. McGlashan, 1417 S. Figueroa	KINY 610 250 Juneau, Alaska Northwest Advertising Co.
KGFK 1500 100 Moorhead, Minn. 722 Center Ave.	KIT 1310 100 Yakima, Wash. 109 1/2 E. Yakima Ave.
KGFL 1370 100 Roswell, N. M. KGFL, Inc., 507 N. Main St.	KIUJ 1310 100 Santa Fe, N. Mex. J. H. Speck
KGFW 1318 100 Kearney, Neb. Midway Hotel	KIUL 1210 100 Garden City, Kans. Garden City Brdstg. Co.
KGFX 630 200 Pierre, S. D. Dana McNeil, 510 Summit Ave.	KIUN 1420 100 Pecos, Texas J. H. Hawkins & B. H. Hubbs
KGCC 1420 100 San Francisco, Calif. 230 Eddy St.	KIUO 1210 100 Ardmore, Okla. Ardmore Publishing Co.
KGGF 1010 1000 Coffeyville, Kans. Coffeyville Journal Bldg.	KJBS 1070 500 San Francisco, Calif. 1380 Bush St.
KGGM 1230 250 Albuquerque, N. M. Franciscan Hotel	KJR 970 5000 Seattle, Wash. Skinner Bldg.
KGHF 1320 500 Pueblo, Colo. C. P. Ritchie, 113 Broadway	KLCN 1290 100 Blytheville, Ark. C. L. Lintzenich, Main and Division St.
KGHI 1200 100 Little Rock, Ark. Arkansas Brdstg. Co., Marlon Hotel	KLO 1400 500 Ogden, Utah 405 - 25th St.
KGHL 780 1000 Billings, Mont. 5th & N, Broadway	KLPM 1240 250 Minot, N. D. John B. Cooley, Box 707
KGIR 1360 1000 Butte, Mont. KGIR, Inc., 121 W. Broadway	KLRA 1390 1000 Little Rock, Ark. Arkansas Broadcasting Co., Box 560
KGIW 1420 100 Alamosa, Colo. Leonard E. Wilson, 328 N. Commercial	KLS 1440 250 Oakland, Calif. Warner Bros., 2201 Telegraph Ave.
KGIX 1420 100 Las Vegas, Nev. J. M. Heaton, Box 656	KLUF 1370 100 Galveston, Texas Geo. R. Clough, Buccaneer Hotel
KGKB 1500 100 Tyler, Texas 115 S. College	KLX 880 1000 Oakland, Calif. Tribune Tower
KGKL 1370 100 San Angelo, Texas KGKL, Inc., St. Angelus Hotel	KLZ 560 1000 Denver, Colo. Shirley-Savoy Hotel
KGKO 570 500 Wichita Falls, Texas 9th St. & Indiana Ave.	KMA 930 1000 Shenandoah, Iowa Earl E. May Seed & Nursery Co.
KGKY 1500 100 Scottsbluff, Neb. Hilliard Co., Inc., 1517 1/2 Broadway	KMAC 1370 100 San Antonio, Texas W. W. McAllister, Blue Bonnet Hotel
KGMB 1320 1000 Honolulu, T. H. Honolulu Broadcasting Co., Box 2663	KMBC 950 1000 Kansas City, Mo. Pickwick Hotel
KGNF 1430 1000 North Platte, Neb. Great Plains Broadcasting Co., W. 12th St.	KMED 1310 100 Medford, Ore. Mrs. W. J. Virgin, Sparta Bldg.
KGNO 1340 250 Dodge City, Kans. First Natl. Bank Bldg.	KMJ 580 1000 Fresno, Calif. Van Ness & Calaveras Sts.
KGO 790 7500 San Francisco, Calif. 111 Sutter St.	KMLB 1200 100 Monroe, La. Francis Hotel
KGRS 1410 1000 Amarillo, Texas E. B. Gish, Bellaire Park	KMMJ 740 1000 Clay Center, Neb. The M. M. Johnson Co.
KGU 750 2500 Honolulu, T. H. Kaplan at South St.	KMO 1330 250 Tacoma, Wash. KMO, Inc., Hotel Winthrop
KGVO 1260 1000 Missoula, Mont. Mosby, Inc., 240 N. Higgins	KMOX 1090 50000 St. Louis, Mo. 401 S. 12th St.
KGW 620 1000 Portland, Ore. 325 Adler St.	KMPC 710 500 Beverly Hills, Calif. 9631 Wilshire Blvd.
KGY 1210 100 Olympia, Wash. KGY, Inc., 11th and Capitol Way	KMTR 570 1000 Hollywood, Calif. KMTR Radio Corp., 916 N. Formosa Ave.
KHJ 900 1000 Los Angeles, Calif. 7th at Bixel	KNOW 1500 100 Austin, Texas Norwood Building
KHQ 590 1000 Spokane, Wash. Sprague Ave. & Post St.	KNX 1050 50000 Hollywood, Calif. West. Broadcast Co., Inc., 1558 N. Vine St.
KHSL 950 250 Chico, Calif. Golden Empire Brdstg. Co.	KOA 830 50000 Denver, Colo. General Electric Co., 1370 Krameria St.
KICA 1370 100 Clovis, N. M. Southwest Broadcasting Co.	KOAC 550 1000 Corvallis, Ore. Oregon State Agricultural College
KID 1320 250 Idaho Falls, Idaho Park Ave. & Broadway	KOB 1180 10000 Albuquerque, N. M. Albuquerque Journal, Box 687

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KOH 1380 500 Reno, Nev. 440 N. Virginia St.	KSEI 890 250 Pocatello, Idaho Radio Service Corp., 141 S. 6th Ave.
KOIL 1260 1000 Council Bluffs, Iowa Mona Motor Oil Co.	KSL 1130 50000 Salt Lake City, Utah Vermont Bldg.
KOIN 940 1000 Portland, Ore. KGIN, Inc., New Heathman Hotel	KSLM 1370 100 Salem, Ore. Oregon Radio, Inc.
KOL 1270 1000 Seattle, Wash. Northern Life Tower	KSO 1320 500 Des Moines, Iowa Des Moines Register & Tribune
KOMA 1480 5000 Oklahoma City, Okla Biltmore Hotel	KSOO 1110 2500 Sioux Falls, S. D. Sioux Falls Brdcast. Assn., Carpenter Hotel
KOMO 920 1000 Seattle, Wash. Skinner Bldg	KSTP 1460 10000 St. Paul, Minn. St. Paul Hotel
KONO 1370 100 San Antonio, Texas Mission Broadcast. Co., St. Anthony Hotel	KSUN 1200 100 Lowell, Ariz. Copper Electrical Co., Drawer C
KOOS 1290 100 Marshfield, Ore. H. H. Hianseth, Hall Bldg.	KTAB 560 1000 San Francisco, Calif. 5th & Mission Sts.
KORE 1420 100 Eugene, Ore. 733 Willamette St.	KTAR 620 1000 Phoenix, Ariz. 116 N. Central Ave.
KOTN 1500 100 Pine Bluff, Ark. Universal Brdcast. Corp., Hotel Pines	KTAT 1240 1000 Fort Worth, Texas Ft. Worth Natl. Bank Bldg.
KOY 1390 500 Phoenix, Ariz. 621 N. Central Ave.	KTBS 1450 1000 Shreveport, La. Box 1642
KPAC 1260 500 Port Arthur, Texas Port Arthur College	KTFI 1240 1000 Twin Falls, Idaho Radio Broadcasting Corp., Box 521
KPCB 710 100 Seattle, Wash. Tower Bldg.	KTHS 1060 10000 Hot Springs, Ark. Chamber of Commerce, Box 886
KPJM 1500 100 Prescott, Ariz. Scott & Sturm, P. O. Box 782	KTM 780 500 Los Angeles, Calif. 214 S. Vermont St.
KPLC 1500 100 Lake Charles, La. Calcasieu Brdcastg. Co.	KTRB 740 250 Modesto, Calif. McTammany & Bates
KPO 680 50000 San Francisco, Calif. 111 Sutter St.	KTRH 1290 1000 Houston, Texas KTRH Broadcasting Co., Rice Hotel
KPOF 880 500 Denver, Colo. Pillar Of Fire, 1846 Champa St.	KTSA 550 1000 San Antonio, Texas Southwest Broadcasting Co., Plaza Hotel
KPPC 1210 50 Pasadena, Calif. 585 E. Colorado St.	KTSM 1310 100 El Paso, Texas P. O. Box 1976
KPQ 1500 100 Wenatchee, Wash. KPQ Bldg.	KTUL 1400 500 Tulsa, Okla. National Bank of Tulsa Bldg.
KPRC 920 1000 Houston, Texas 2204 Shell Bldg.	KTW 1220 1000 Seattle, Wash. 77th Ave. & Spring St.
KQV 1380 500 Pittsburgh, Pa. KQV Broadcasting Co., Investment Bldg.	KUJ 1370 100 Walla Walla, Wash. KUJ, Inc., Marcus Whitman Hotel
KQW 1010 1000 San Jose, Calif. 87 E. San Antonio St.	KUMA 1420 100 Yuma, Ariz. Dr. A. H. Schermann, Box 267
KRE 1370 100 Berkeley, Calif. 2345 Channing Way	KUOA 1260 1000 Fayetteville, Ark. KUOA, Inc., Washington Hotel
KREG 1500 100 Santa Ana, Calif. 3rd & Sycamore Sts.	KUSD 890 500 Vermillion, S. D. University of South Dakota
KRGV 1260 500 Weslaco, Texas KRGV Inc.	KVI 570 1000 Tacoma, Wash. W. R. Rust Bldg.
KRKD 1120 1000 Los Angeles, Calif. 815 Spring Arcade Bldg.	KVL 1370 100 Seattle, Wash. KVL, Inc., 5th and Virginia St.
KRKO 1370 50 Everett, Wash. Lee Mudgett, 2814 Rucker Ave.	KVOA 1260 500 Tucson, Ariz. Cons. Natl. Bank Bldg.
KRLC 1420 100 Lewiston, Idaho H. E. Studebaker	KVOD 920 500 Denver, Colo. Continental Oil Bldg.
KRLD 1040 10000 Dallas, Texas KRLD Radio Corp., Adolphus Hotel	KVOO 1140 25000 Tulsa, Okla. Wright Bldg.
KRMD 1310 100 Shreveport, La. Jefferson Hotel	KVOR 1270 1000 Colorado Spg., Colo. Mining Exchange Bldg.
KRNT 1320 500 Des Moines, Iowa Des Moines Register Tribune	KVOS 1200 100 Bellingham, Wash. 115 W. Magnolia St.
KROW 930 1000 Oakland, Calif. 1803 Franklin St.	KWBG 1420 100 Hutchinson, Kans. W. B. Greenwald
KRSC 1120 100 Seattle, Wash. Radio Sales Corp., Washington Athletic Club	KWEA 1210 100 Shreveport, La. Spring & Fannin Sts.
KSAC 580 500 Manhattan, Kans. State College of Agriculture	KWFW 1210 100 Hilo, Hawaii Hilo Broadcasting Co., Ltd.
KSCJ 1330 1000 Sioux City, Iowa Perkins Bros. Co., 415 Douglas St.	KWG 1200 100 Stockton, Calif. Medico-Dental Bldg.
KSD 550 1000 St. Louis, Mo. 12th & Olive Sts.	KWJJ 1040 500 Portland, Ore. 622 S. W. Salmon St.

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KWK 1350 1000	St. Louis, Mo. Thomas Patrick, Inc., Hotel Chase	WAAW 660 500	Omaha, Neb. Omaha Grain Exchange
KWKC 1370 100	Kansas City, Mo. 39th & Main Sts.	WABC 860 50000	New York, N. Y. 485 Madison Ave.
KWKH 1100 10000	Shreveport, La. Spring & Fannin Sts.	WABI 1200 100	Bangor, Maine First Universalist Society Park St.
KWLC 1270 100	Decorah, Iowa Luther College	WABY 1370 100	Albany, N. Y. Strand Theatre Bldg.
KWSC 1220 1000	Pullman, Wash. State College of Washington	WACO 1420 100	Waco, Texas Amicable Bldg.
KWTN 1210 100	Watertown, S. D. Citizens Bank Bldg.	WADC 1320 1000	Akron, Ohio Allen T. Simmons, P. O. Box 29
KWTO 560 1000	Springfield, Mo. KGBX Inc.	WAGF 1370 100	Dothan, Ala. Houston Hotel
KWYO 1370 100	Sheridan, Wyo. Big Horn Brdestg. Co.	WAGM 1420 100	Presque Isle, Mo. Aroostook Broadcasting Corp., Main St.
KXA 760 250	Seattle, Wash. American Radio Tel. Co., 218 Bigelow Bldg.	WAIM 1200 100	Anderson S. C. Wilton E. Hall
KXL 1420 100	Portland, Ore. KXL Broadcasters, Multnomah Hotel	WAIU 640 500	Columbus, Ohio Deshler-Wallick Hotel
KXO 1500 100	El Centro, Calif. F. M. Bowles, Box 140	WALA 1380 500	Mobile, Ala. Battle House
KXRO 1310 100	Aberdeen, Wash. KXRO, Inc., Hotel Morck	WALR 1210 100	Zanesville, Ohio First Trust & Sava. Bank Bldg.
KXYZ 1440 1000	Houston, Texas Fannin & Rusk Sts.	WAML 1310 100	Laurel, Miss. Southland Radio Corp., Box 26
KYA 1230 1000	San Francisco, Calif. 988 Market St.	WAPI 1140 5000	Birmingham, Ala. Protective Life Bldg.
KYW 1020 10000	Philadelphia, Pa. 1622 Chestnut Street	WARD 1400 500	Brooklyn, N. Y. 427 Flatbush Ave., Ext.
NAA 690 1000	Arlington, Va. United States Navy	WASH 1270 500	Grand Rapids, Mich. Grand Rapids Natl. Bank Bldg.
RDN 680 500	San Salvador, E. S. Republic of El Salvador	WATR 1190 100	Waterbury, Conn. WATR Co. Inc. 47 Grand St.
TGW 565 10000	Guatemala, Gua. Gobierno de Guatemala	WAVE 940 1000	Louisville, Ky. WAVE, Inc., 1525 Brown Hotel
TGX 1400 150	Guatemala City	WAWZ 1350 500	Zarephath, N. J. Pillar of Fire.
TICR 912 75	San Jose, C. R. Government of Costa Rica	WAZL 1420 100	Hazleton, Pa. Hazleton Broadcasting Service, Inc.
TIFB 714 30	San Jose, C. R.	WBAA 890 1000	West Lafayette, Ind. Purdue University
TIGA 1014 30	Cartago, C. R.	WBAL 1060 10000	Baltimore, Md. Lexington Bldg., Amer. Radio News Corp.
TIGP 800 75	San Jose, C. R. Gonzalo Pinto H. Apt. 225	WBAP 800 50000	Fort Worth, Texas Blackstone Hotel
TIRCA 1100 500	San Jose, C. R. Perry Gilton, Apt. 225	WBAX 1210 100	Wilkes-Barre, Pa. John H. Stenger, Jr., 70 S. Main St.
TISO 550 250	San Jose, C. R. P. F. Saborio, Apt. 1354	WBBC 1400 500	Brooklyn, N. Y. 552-54 Atlantic Ave.
TIVL 835 30	San Jose, C. R.	WBBL 1210 100	Richmond, Va. 1627 Monument Ave.
VAS 685 2000	Glace Bay, N. S. Canadian Marconi Co., Ltd.	WBBM 770 50000	Chicago, Ill. WBBM Broadcasting Corp., Wrigley Bldg.
VESEK 1185 10	Montmagny, Que. J. A. Marquis, P. O. Box 52	WBBR 1300 1000	Brooklyn, N. Y. 124 Columbia Heights
VOAC 1065 40	St. John's, Nfld.	WBBZ 1200 100	Ponca City, Okla. C. L. Carrell, 407 W. South Ave.
VOAS 940 100	St. John's N. F. Ayre & Bone, Ltd., Water St.	WBCM 1410 500	Bay City, Mich. James E. Davidson, Hotel Wenonah
VOGY 840 400	St. John's, N. F. Newfoundland Hotel	WBen 900 1000	Buffalo, N. Y. WBen, Inc., Hotel Statler
VONF 950 5000	St. John's N. F. Dominion Broadcasting Co., Ltd., Box 135	WBOE 1310 100	Marquette, Mich. 146 W. Washington St.
VOWR 681 500	St. John's, N. F. Wesley United Church, Box 157	WBIG 1440 500	Greensboro, N. C. Box 408
WAAB 1410 500	Boston, Mass. 21 Brookline Ave.	WBNO 1200 100	New Orleans, La. Hotel New Orleans
WAAF 920 500	Chicago, Ill. Palmer House	WBNS 1430 500	Columbus, O. 33 N. High St.
WAAT 940 500	Jersey City, N. J. Bremer Broadcasting Corp., 50 Journal Sq	WBNX 1350 250	New York, N. Y. 260 E. 161st St.

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WBOQ 860 50000 New York, N. Y. Atlantic Broadcasting Corp.	WCRW 1210 100 Chicago, Ill. Clinton R. White, 2756 Pine Grove Ave.
WBOW 1310 100 Terre Haute, Ind. Banks of Wabash, Inc., 19 Beach Block	WCSC 1360 500 Charleston, S. C. Francis Marion Hotel
WBRB 1210 100 Red Bank, N. J. 63 Broad St.	WCSH 940 1000 Portland, Me. 579 Congress St.
WBRC 930 1000 Birmingham, Ala. Bankhead Hotel	WDAE 1220 1000 Tampa, Fla. Tampa Times Co., Tampa Terrace
WBRE 1310 100 Wilkes-Barre, Pa. Louis G. Baltimore, 16 N. Main	WDAF 610 1000 Kansas City, Mo. 1724 Grand Ave.
WBSO 920 500 Babson Park, Mass. Drawer B	WDAG 1410 1000 Amarillo, Texas Box 306
WBT 1080 50000 Charlotte, N. C. Station WBT, Inc., Wilder Bldg.	WDAH 1310 100 El Paso, Texas Box 1976
WBTM 1370 100 Danville, Va. Miller Bldg.	WDAS 1370 100 Philadelphia, Pa. WDAS Brdestg. Co., Inc., Broadwood Hotel
WBZ 990 50000 Boston, Mass. Hotel Bradford	WDAY 940 1000 Fargo, N. D. WDAY, Inc., Black Bldg., 118 Broadway
WBZA 990 1000 Springfield, Mass. Hotel Kimball	WDBJ 930 1000 Roanoke, Va. Times World Corp., P. O. Box 150
WCAC 600 500 Storrs, Conn. Connecticut State College	WDBO 580 1000 Orlando, Fla. 555 N. Orange Ave.
WCAD 1220 500 Canton, N. Y. St. Lawrence University	WDEL 1120 250 Wilmington, Del. WDEL, Inc., 10th and King Sts.
WCAE 1220 1000 Pittsburgh, Pa. 6th Ave. & Smithfield St.	WDEV 550 500 Waterbury, Vt. Harry C. Whitehill, Stowe St.
WCAL 1250 1000 Northfield, Minn. St. Olaf College	WDGY 1180 1000 Minneapolis, Minn. Dr. Geo. W. Young, 909 Broadway
WCAM 1280 500 Camden, N. J. City of Camden, City Hall	WDNC 1500 100 Durham, N. C. Washington Duke Hotel
WCAO 600 500 Baltimore, Md. 811 W. Lanvale St.	WDOD 1280 1000 Chattanooga, Tenn. WDOD Broadcasting Corp., Hotel Patten
WCAP 1280 500 Asbury Park, N. J. Convention Hall	WDRC 1330 1000 Hartford, Conn. WDRC, Inc., Corning Bldg., 11 Asylum St.
WCAT 1200 100 Rapid City, S. D. South Dakota State School of Mines	WDSU 1250 1000 New Orleans, La. WDSU Inc., Hotel Monteleone
WCAU 1170 50000 Philadelphia, Pa. WCAU Broadcasting Co., 1622 Chestnut	WDZ 1070 100 Tuscola, Ill. James L. Bush, Star Store Bldg.
WCAX 1200 100 Burlington, Vt. 203 College St.	WEAF 660 50000 New York, N. Y. 30 Rockefeller Plaza
WCAZ 1070 100 Carthage, Ill. 97 1/2 Adams St.	WEAN 780 500 Providence, R. I. New Crown Hotel
WCBA 1440 500 Allentown, Pa. B. Bryan Musselman, 39-41 10th St.	WEBC 1290 1000 Superior, Wis. Spaulding Hotel, Duluth, Minn.
WCBD 1080 5000 Waukegan, Ill. 75 E. Wacker Drive, Chicago	WEBQ 1210 100 Harrisburg, Ill. 100 E. Poplar St.
WCBM 1370 100 Baltimore, Md. Keith Theatre Bldg.	WEBR 1310 100 Buffalo, N. Y. Howell Broadcasting Co., Inc., 736 Main
WCBS 1420 100 Springfield, Ill. WCBS, Inc., 208 1/2 S. 5th.	WEDC 1210 100 Chicago, Ill. Emil Deneenmark, 3860 Ogden Ave.
WCOC 810 50000 Minneapolis, Minn. Nicollet Hotel	WEED 1420 100 Rocky Mount, N. C. Wm. Avera Wynne, Box 221
WCFL 970 1500 Chicago, Ill. 666 Lake Shore Drive	WEEI 590 1000 Boston, Mass. 182 Tremont St.
WCHS 580 500 Charleston, W. Va. WOBU, Inc., Ruffner Hotel	WEUU 830 1000 Reading, Pa. Berks Broadcasting Co., 533 Penn
WCKY 1490 5000 Covington, Ky. 6th & Madison Sts.	WEHC 1420 100 Charlottesville, Va. 7th & Main Sts.
WCLO 1200 100 Janesville, Wis. 200 E. Milwaukee St.	WEHS 1420 100 Cicero, Ill. WEHS, Inc. 6138 W. Cermak Rd.
WCLS 1310 100 Joliet, Ill. WCLS, Inc., 301 E. Jefferson St.	WELL 1420 100 Battle Creek, Mich. Enquirer News, 38 W. State St.
WCMI 1310 100 Ashland, Ky. Ashland Broadcasting Co.	WENR 870 50000 Chicago, Ill. 222 N. Bank Drive
WCNW 1500 100 Brooklyn, N. Y. Arthur Faske, 1525 Pitkin Ave.	WESG 850 1000 Elmira, N. Y. Mark Twain Hotel
WCOA 1340 500 Pensacola, Fla. San Carlos Hotel	WEVD 1300 1000 New York, N. Y. Jewish Daily Forward, Hotel Claridge
WCOC 880 500 Meridian, Miss. Box 603	WEW 760 1000 St. Louis, Mo. St. Louis University, 221 N. Grand Blvd.
WCOL 1210 100 Columbus, Ohio WCOL Inc., 30 N. High St.	WEXL 1310 50 Royal Oak, Mich. 212 W. 6th St.

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WFAA 800 50000 Dallas, Texas Baker Hotel	WHBF 1210 100 Rock Island, Ill. Hotel Harms
WFAB 1300 1000 New York, N. Y. Fifth Avenue Broadcasting Corp.	WHBI 1250 1000 Newark, N. J. 100 Shipman St.
WFAM 1200 100 South Bend, Ind. South Bend Tribune, 225 W. Colfax Ave.	WHBL 1410 500 Sheboygan, Wis. Press Publishing Co., Press Bldg.
WFAS 1210 100 White Plains, N. Y. Hotel Roger Smith	WHBQ 1370 100 Memphis, Tenn. Brdstg. Sta. WNBQ, Inc. Hotel Claridge
WFBC 1300 1000 Greenville, S. C. Imperial Hotel	WHBU 1210 100 Anderson, Ind. Anderson Broadcasting Corp., Box 816
WFBE 1200 100 Cincinnati, Ohio WFBE, Inc., Hotel Sinton	WHBY 1200 100 Green Bay, Wis. WHBY, Inc., Bellin Bldg.
WFBG 1310 100 Altoona, Pa. Gable Broadcasting Co. 12th Av. & 13th St.	WHDF 1370 100 Calumet, Mich. Box 643
WFBL 1360 1000 Syracuse, N. Y. Onondaga Hotel	WHDH 830 1000 Boston, Mass. Matheson Radio Co., 62 Boylston
WFBM 1230 1000 Indianapolis, Ind. 48 Monument Circle	WHDL 1420 100 Olean, N. Y. Exchange Natl. Bank Bldg.
WFBR 1270 500 Baltimore, Md. 7 St. Paul St.	WHEB 740 250 Portsmouth, N. H. Box 522, 39 Congress St.
WFDF 1310 100 Flint, Mich. Union Industrial Bldg.	WHEC 1430 500 Rochester, N. Y. WHEC, Inc., 40 Franklin St.
WFEA 1340 500 Manchester, N. H. Carpenter Hotel	WHEF 1500 100 Kosciusko, Miss. 417 W. Adams St.
WFIL 560 1000 Philadelphia, Pa. WFIL Broadcasting Co., 801 Market	WHFC 1420 100 Cicero, Ill. WHFC, Inc., 6138 W. Cermak Road
WFLA 620 1000 Clearwater, Fla. Box 119	WHIO 1260 1000 Dayton, Ohio 39 S. Ludlow St.
WGAL 1500 100 Lancaster, Pa. WGAL, Inc., 8 W. King St.	WHIS 1410 250 Bluefield, W. Va. Bland St.
WGAR 1450 500 Cleveland, Ohio WGAR Broadcasting Co., Hotel Statler	WHJB 620 250 Greensburg, Pa. Penn-Albert Hotel, 128 Pa. Ave.
WGBB 1210 100 Freeport, N. Y. H. H. Carman, 64 S. Grove St.	WHK 1390 1000 Cleveland, Ohio 1311 Terminal Tower
WGBF 630 500 Evansville, Ind. 619 Vine St.	WHN 1010 1000 New York, N. Y. 1540 Broadway
WGBI 880 500 Scranton, Pa. 116 N. Washington Ave.	WHO 1000 50000 Des Moines, Iowa Central Brdstg. Co., 914 Walnut St.
WGCM 1210 100 Mississippi City Great Southern Golf Club	WHOM 1450 250 Jersey City, N. J. 2870 Boulevard
WGES 1360 500 Chicago, Ill. 128 N. Crawford Ave.	WHP 1430 500 Harrisburg, Pa. WHP Inc., 216 Locust St.
WGH 1310 100 Newport News, Va. 2813 Washington Ave.	WIBA 1280 1000 Madison, Wis. 111 King St.
WGL 1370 100 Fort Wayne, Ind. F. C. Ziegler, 213 W. Main St.	WIBG 970 100 Glenside, Pa. WIBG, Inc., Keewick Bldg.
WGN 720 50000 Chicago, Ill. WGN, Inc., Tribune Tower	WIBM 1370 100 Jackson, Mich. WIBM, Inc., 306 W. Michigan Ave.
WGNV 1210 100 Chester, N. Y. Peter Goelet (Orange County)	WIBU 1210 100 Poynette, Wis. Wm. C. Forrest, R. F. D. No. 3
WGPC 1420 100 Albany, Ga. Rylander Theatre Bldg.	WIBW 580 1000 Topeka, Kans. 11th & Topeka Blvd.
WGR 550 1000 Buffalo, N. Y. Rand Bldg.	WIBX 1200 100 Utica, N. Y. WIBX, Inc., 1st Natl. Bank Bldg.
WGST 890 500 Atlanta, Ga. Ansley Hotel	WICC 600 500 Bridgeport, Conn. Southern Conn. Broadcasting Corp.
WGY 790 50000 Schenectady, N. Y. I River Road	WIL 1200 100 St. Louis, Mo. Melbourne Hotel
WHA 940 2500 Madison, Wis. University of Wisconsin	WILL 580 1000 Urbana, Ill. University of Illinois
WHAM 1150 50000 Rochester, N. Y. 100 Carlson Road	WILM 1420 100 Wilmington, Del. 920 King St.
WHAS 820 50000 Louisville, Ky. 300 W. Liberty St.	WIND 560 1000 Gary, Ind. 504 Broadway
WHAT 1310 100 Philadelphia, Pa. Public Ledger Bldg.	WINS 1180 1000 New York, N. Y. 110 E. 58th St., Hearst Radio, Inc.
WHAZ 1300 500 Troy, N. Y. 8th St.	WIOD 1300 1000 Miami, Fla. Herald Bldg., Metropolis Pub. Co.
WHB 860 1000 Kansas City, Mo. WHB Broadcasting Co., Scarritt Bldg.	WIP 610 500 Philadelphia, Pa. Gimbel Bldg.
WHBC 1200 100 Canton, Ohio Edw. P. Graham, 319 Tusc. St., W.	WIRE 1400 500 Indianapolis, Ind. 540 N. Meridian St.

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WIS	1010	1000	Columbia, S. C. Station WIS, Inc., 1811 Main St.
WISN	1120	250	Milwaukee, Wis. 123 W. Michigan St., Hearst Radio, Inc.
WJAC	1310	100	Johnstown, Pa. WJAC, Inc., Locust St.
WJAG	1060	1000	Norfolk, Neb. Norfolk Daily News
WJAR	890	500	Providence, R. I. Outlet Co., Weybossett St.
WJAS	1290	1000	Pittsburgh, Pa. Chamber of Commerce Bldg.
WJAX	900	1000	Jacksonville, Fla. City of Jacksonville
WJAY	610	500	Cleveland, Ohio 1224 Huron Road
WJEC	1200	100	Bloomington, Ill. Kaskaskia Broadcasting Co.
WJBK	1500	100	Detroit, Mich. 6559 Hamilton Ave.
WJBL	1200	100	Decatur, Ill. Gushard Bldg.
WJBO	1420	100	Baton Rouge, La. Baton Rouge Broadcasting Co., Inc.
WJBW	1200	100	New Orleans, La. C. C. Carlson, Godechaux Bldg.
WJBY	1210	100	Gadsden, Ala. Gadsden Broadcasting Co., 112 N. 8th St.
WJDX	1270	1000	Jackson, Miss. Lamar Life Bldg.
WJEJ	1210	100	Hagerstown, Md. Lovely Dame Bldg.
WJIM	1210	100	Lansing, Mich. Capital City Brdstrg. Co.
WJJD	1130	20000	Chicago, Ill. WJJD, Inc., 201 N. Wells St.
WJMS	1420	100	Ironwood, Mich. WJMS, Inc., St. James Hotel
WJR	750	10000	Detroit, Mich. WJR, Inc., Fisher Bldg.
WJSV	1460	10000	Washington, D. C. Earle Building
WJTL	1370	100	Atlanta, Ga. Oglethorpe University
WJW	1210	100	Akron, Ohio WJW, Inc., 41 S. High St.
WJZ	760	50000	New York, N. Y. 30 Rockefeller Plaza
WKAQ	1240	1000	San Juan, P. R. Radio Corp. of Porto Rico, P. O. Box 358
WKAR	1040	1000	East Lansing, Mich. Michigan State College
WKBB	1500	100	East Dubuque, Ill. Richard W. Hoffman
WKBB	1380	1000	LaCrosse, Wis. WKBB, Inc., 409 Main St.
WKBI	1420	100	Cicero, Ill. WKBI Inc., 6138 W. Cermak Road
WKBN	570	500	Youngstown, Ohio 17 N. Champion St.
WKBO	1209	100	Harrisburg, Pa. Penn Harris Hotel
WKBV	1500	100	Richmond, Ind. Knox Radio Corp., Box 308
WKBW	1480	5000	Buffalo, N. Y. Rand Bldg.
WKBZ	1500	100	Muskegon, Mich. Karl L. Ashbacher & Sons
WKEU	1500	100	Griffin, Ga. Radio Station WKEU, 906 Hill St.
WKJC	1200	100	Lancaster, Pa. 16 W. King St.

WKOK	1210	100	Sunbury, Pa. 1160 N. Front St.
WKRC	550	1000	Cincinnati, Ohio WKRC, Inc., Hotel Alms
WKY	900	1000	Oklahoma City, Okla. Plaza Court Bldg.
WKZO	590	1000	Kalamazoo, Mich. John E. Fetzer, Burdick Hotel
WLAC	1470	5000	Nashville, Tenn. 159—4th Ave. No. WLAC Inc.
WLAP	1420	100	Lexington, Ky. Main & Esplanade
WLB	1250	1000	Minneapolis, Minn. University of Minnesota
WLBC	1310	50	Muncie, Ind. D. A. Burton, Anthony Bldg.
WLBK	1420	100	Kansas City, Kans. WLBK Broadcasting Co., Huron Bldg.
WLBI	900	2500	Stevens Point, Wis. Wisconsin Dept. of Agriculture and Markets
WLBZ	620	500	Bangor, Me. Maine Broadcasting Co., Inc., 100 Main
WLEU	1420	100	Erie, Pa. Leo J. Omelian
WLLH	1370	100	Lowell, Mass. Albert S. Moffat, Box D
WLNH	1310	100	Laconia, N. H. 523 Main St.
WLS	870	50000	Chicago, Ill. 1230 W. Washington Blvd.
WLTH	1400	500	Brooklyn, N. Y. 305 Washington St.
WLVA	1200	100	Lynchburg, Va. 915 Main St.
WLW	700	50000	Cincinnati, Ohio 1329 Arlington St.
WLWL	1100	5000	New York, N. Y. 415 W. 59th St.
WMAL	630	250	Washington, D. C. 712—11th St., N. W.
WMAQ	670	50000	Chicago, Ill. Merchandise Mart
WMAS	1420	100	Springfield, Mass. WMAS, Inc., 70 Chestnut St.
WMAZ	1180	1000	Macon, Ga. 211 Cotton Ave.
WMB	1420	100	Detroit, Mich. 7310 Woodward Ave.
WMBD	1440	500	Peoria, Ill. 114 N. Madison St.
WMBG	1210	100	Richmond, Va. 914 W. Broad St.
WMBH	1420	100	Joplin, Mo. 1334 Roosevelt St.
WMBI	1080	5000	Chicago, Ill. 153 Institute Place
WMBO	1310	100	Auburn, N. Y. WMBO, Inc., Metcalf Bldg.
WMBQ	1500	100	Brooklyn, N. Y. Paul J. Gollhofer, 95 Leonard St.
WMBR	1370	100	Jacksonville, Fla. F. J. Reynolds, Carling Hotel
WMC	780	1000	Memphis, Tenn. WMC, Inc., Hotel Gayoso
WMCA	570	500	New York, N. Y. 1697 Broadway
WMEX	1500	100	Boston, Mass. The Northern Corp., Hotel Manger
WMFD	1370	100	Wilmington, N. C. Richard Austin Dunlea
WMFE	1380	250	New Britain, Conn. William J. Sanders

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WMFF 1310	100	Plattsburg, N. Y. Plattsburg Broadcasting Corp.	WOSU 570	750	Columbus, Ohio Ohio State University
WMFG 1210	100	Hibbing, Minn. Head of the Lakes Brdestg. Co.	WOV 1130	1000	New York, N. Y. 132 West 43rd St.
WMFH 1120	500	Boston, Mass. Joseph M. Kirby	WOW 590	1000	Omaha, Neb. Woodmen of the World, 4th and Farnam
WMFI 900	500	New Haven, Conn. Patrick J. Goode	WOWO 1160	10000	Fort Wayne, Ind. Main Auto Supply Co., 213 W. Main
WMFJ 1420	100	Daytona Beach, Fla. W. Wright Esch	WPAD 1420	100	Paducah, Ky. 2201 Broadway
WMFN 1210	100	Clarksdale, Miss. Attala Brdestg. Corp.	WPAX 1210	100	Thomasville, Ga. H. Wimpy, 135 E. Jackson St.
WMFO 1370	100	Decatur, Ala. James R. Doss, Jr.	WPAY 1370	100	Portsmouth, Ohio F. P. Moler
WMMN 890	250	Fairmont, W. Va. West Va. Brdestg. Corp., 325 Main St.	WPEN 920	250	Philadelphia, Pa. 22nd & Walnut Sts.
WMPC 1200	100	Lapeer, Mich. 81 Liberty St.	WPFB 1370	100	Hattiesburg, Miss. Forest Brdestg. Co.
WMT 600	1000	Cedar Rapids, Iowa Hotel Montrose	WPG 1100	5000	Atlantic City, N. J. Convention Hall
WNAC 1230	1000	Boston, Mass. 21 Brookline Ave	WPHR 880	500	Petersburg, Va. WLBG, Inc., Medical Arts Bldg.
WNAD 1010	1000	Norman, Okla. University of Oklahoma	WPRO 630	250	Providence, R. I. Cherry & Webb Brdestg. Co., 15 Chestnut
WNAX 570	1000	Yankton, S. D. House of Gurney, Inc., 2nd and Capital St.	WPRP 1420	100	Ponce, P. R. Julio M. Conesa
WNBF 1500	100	Binghamton, N. Y. Arlington Hotel	WPTF 680	1000	Raleigh, N. C. 324 Fayetteville St.
WNBH 1310	100	New Bedford, Mass. 251 Union St.	WQAM 560	1000	Miami, Fla. Miami Brdestg. Co., Inc., 327 N. E. 1st Ave.
WNBZ 1430	500	Memphis, Tenn. Memphis Broadcasting Co., Hotel DeVoy	WQAN 880	250	Scranton, Pa. Scranton Times, 149 Penn Ave.
WNBX 1260	1000	Springfield, Vt. WNBX Broadcasting Corp., 39 Main St.	WQBC 1360	1000	Vicksburg, Miss. Delta Broadcasting Co., Hotel Vicksburg
WNBZ 1290	100	Saranac Lake, N. Y. Smith & Mace, 70 Broadway	WQDM 1370	100	St. Albans, Vt. 42 N. Main St.
WNEL 1290	500	San Juan, P. R. Box 1252	WRAK 1370	100	Williamsport, Pa. WRAK, Inc., 244 W. 4th St.
WNEW 1250	1000	Newark, N. J. Wodaam Corp., 1060 Broad	WRAW 1310	100	Reading, Pa. Reading Broadcasting Co., 533 Penn St.
WNOX 560	1000	Knoxville, Tenn. WNOX, Inc., Hotel Andrew Johnson	WRAX 920	250	Philadelphia, Pa. WRAX Broadcasting Co., 217 S. Broad St.
WNRA 1420	100	Muscle Shoals, Ala. Kathryn Jones, P. O. Box 486, Sheffield, Ala.	WRBL 1200	100	Columbus, Ga. Royal Theatre Bldg.
WNYC 810	1000	New York, N. Y. Centre & Duane Sts.	WRBX 1410	250	Rosnoke, Va. P. O. Box 2389
WOAI 1190	50000	San Antonio, Texas Southland Industries, Inc., 1038 Navarro	WRC 950	500	Washington, D. C. National Press Bldg.
WOC 1370	100	Davenport, Iowa Palmer School of Chiropractic	WRDO 1370	100	Augusta, Me. WrDO, Inc., Augusta House
WOCL 1210	50	Jamestown, N. Y. A. E. Newton, 840 N. Main St.	WRDW 1500	100	Augusta, Ga. Augusta Brdestg. Co., 309 8th St.
WOI 640	5000	Ames, Iowa Iowa State College	WREC 600	1000	Memphis, Tenn. WREC, Inc., Hotel Peabody
WOKO 1430	500	Albany, N. Y. WOKO, Inc., Hotel Ten Eyck	WREN 1220	1000	Lawrence, Kans. WREN Brdestg. Co., 8th and Vermont St.
WOL 1310	100	Washington, D. C. American Broadcasting Co., Annapolis Hotel	WRGA 1500	100	Rome, Ga. 10 Third Ave.
WOMT 1210	100	Manitowoc, Wis. Francis M. Kadow, Box 326	WRJN 1370	100	Racine, Wis. Racine Broadcasting Corp., Hotel Racine
WOOD 1270	500	Grand Rapids, Mich. Grand Rapids Natl. Bank Bldg.	WROK 1410	500	Rockford, Ill. 109 So. Water St.
WOPI 1500	100	Bristol, Tenn. 22nd & State Sts.	WROL 1310	100	Knoxville, Tenn. Stuart Broadcasting Corp., 524 S. Gay
WOR 710	50000	Newark, N. J. 147 Market St.	WRR 1280	500	Dallas, Texas City of Dallas, Southland Life Bldg.
WORC 1280	500	Worcester, Mass. Alfred F. Kleindienst, 60 Franklin St.	WRUF 830	5000	Gainesville, Fla. State University
WORK 1320	1000	York, Pa. York Broadcasting Co., 15 S. Beaver St.	WRVA 1110	5000	Richmond, Va. Larus & Bros Co., Inc., 22nd and Gary St.
WOS 630	500	Jefferson City, Mo. State Highway Control, Capitol Bldg.	WSAI 1330	1000	Cincinnati, Ohio Crosley Radio Corp., 1329 Arlington

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WSAJ 1310 100 Grove City, Pa. Grove City College, 418 Poplar St.	WTMJ 620 1000 Milwaukee, Wis. The Journal Co., 333 W. State St.
WSAN 1440 500 Allentown, Pa. WSAN, Inc., 39 10th St.	WTMW 1500 100 East St. Louis, Ill. Mississippi Valley Brdsgt. Co.
WSAR 1450 250 Fall River, Mass. Academy of Music Bldg.	WTNJ 1280 500 Trenton N. J. Trenton Brdsgt. Co., Stacy Trent Hotel
WSAZ 1190 1000 Huntington, W. Va. WBAZ, Inc., P. O. Box 729	WTOC 1260 1000 Savannah, Ga. Savannah Brdsgt. Co., De Soto Hotel
WSB 740 50000 Atlanta, Ga. Atlanta Journal, 7 N. Forsyth St.	WTRC 1310 50 Elkhart, Ind. Truth Radio Corp., Hote Elkhart
WSBC 1210 100 Chicago, Ill. Gene T. Dyer, 1258 S. Michigan Ave.	WVFW 1400 500 Brooklyn, N. Y. Paramount Brdsgt. Co., 1 Nevins St.
WSBT 1360 500 South Bend, Ind. South Bend Tribune, 225 W. Colfax Ave.	WWAE 1200 100 Hammond, Ind. 402 Hammond Bldg.
WSFA 1410 500 Montgomery, Ala. Jefferson Davis Hotel	WWC 1420 1000 Spartanburg, S. C. Virgil V. Evans, Ravenal & Avant St.
WSGN 1310 100 Birmingham, Ala. R. B. Broyles, Tutwiler Hotel	WWJ 920 1000 Detroit, Mich. Evening News Assn., 616 Lafayette Blvd.
WSIX 1210 100 Springfield, Tenn. 638 Tire & Vulcanizing Co.	WWL 850 10000 New Orleans, La. Loyola University, Roosevelt Hotel
WSJS 1310 100 Winston-Salem, N. C. Winston-Salem Journal Co., 416 N. Marshall	WWNC 570 1000 Asheville, N. C. Citizen Brdsgt. Co., Inc., Flatiron Bldg.
WSM 650 50000 Nashville, Tenn. 301—7th Ave. No.	WWPA 850 250 Clarion, Pa.
WSMB 1320 1000 New Orleans, La. WSMB, Inc., Maison Blanche Bldg.	WWRL 1500 100 Woodside, N. Y. 4130—58th St.
WSMK 1380 200 Dayton, Ohio WSMK Inc., Loew Theatre Bldg.	WWSW 1500 100 Pittsburg, Pa. Hotel Schenley
WSOC 1210 100 Charlotte, N. C. WSOC, Inc., Box 730	WWVA 1160 5000 Wheeling, W. Va. Hawley Bldg.
WSPA 920 1000 Spartanburg, S. C. Virgil V. Evans, Ravenal and Avant St.	WXYZ 1240 1000 Detroit, Mich. Madison Theatre Bldg.
WSPD 1340 1000 Toledo, Ohio Toledo Broadcasting Co., 605 Jefferson	WIXBS 1530 1000 Waterbury, Conn. 61 Leavenworth St., Amer. Republican, Inc.
WSUI 880 500 Iowa City, Iowa State University of Iowa	WX2R 1550 1000 Long Island City, N. Y. Scientific Brdsgt. Serv., 41 Park Row, N. Y.
WSUN 620 1000 St. Petersburg, Fla. Chamber of Commerce	W6XA 1550 1000 Bakersfield, Calif. Pioneer Mercantile Co.
WSVA 550 500 Staunton, Va. Marion K. Gilliam	W9XBY 1530 1000 Kansas City, Mo. First National Television Inc.
WSVS 1370 50 Buffalo, N. Y. 666 E. Delavan Ave.	XEA 1060 125 Guadalupe, Jal. Alberto Palos Souza, Apdo. 197
WSYB 1500 100 Rutland, Vt. Philp Weiss Music Co., 80 West St.	XEAA 920 200 Mexicali, B. C. Carlos Blando, Apto. 42
WSYR 570 250 Syracuse, N. Y. E. Onondaga & S. Warren Sts.	XEAF 1010 250 Nogales, Son. Francisco G. Elias, Hote Central
WTAD 900 500 Quincy, Ill. Illinois Brdsgt. Corp., State and 6th	XEAI 1240 100 Mexico City, D. F. Carlos Gonzales Caballero, Insurgentes 366
WTAG 580 500 Worcester, Mass. 18 Franklin St.	XEAJ 1310 15 Cazaca, Cam. Enrique M. Cribuela, 3a. Guerrero 18
WTAM 1070 50000 Cleveland, Ohio 1367 E. 6th St.	XEAM 960 50 Nuevo Laredo, Tams. Edificio Banco Longoria
WTAQ 1330 1000 Eau Claire, Wis. Gillette Rubber Co., Hotel Eau Claire	XEAO 560 250 Mexicali, B. C. Luis L. Castro, C. Altamirano 156
WTAR 780 500 Norfolk, Va. WTAR Radio Corp., Wainwright Bldg.	XEAW 960 10000 Reynosa, Tams. Internacional Broadcasting Co., S. A.
WTAW 1120 500 College Station, Tex. Agricultura and Mechanical College	XEAZ 1420 7 Guanajuato, Gto. Antonio Zavala, Pasco de la Prensa 85
WTAX 1420 100 Springfield, Ill. WTAX, Inc., 416 E. Capitol Ave.	XEB 1030 10000 Mexico City, D. F. El Buen Tono, S. A., Apdo. 79-44
WTBO 800 250 Cumberland, Md. Associated Brdsgt. Corp., Box 794	XEBC 730 5000 Agua Caliente, B. C. Alberto V. Aldrete
WTCN 1250 1000 Minneapolis, Minn. Wesley Temple Bldg.	XEC 1310 50 Tijuana, B. C. Luis F. Enciso, Teatro Zaragoza
WTEL 1310 100 Philadelphia, Pa. Broad & Erie Ave.	XECW 1310 10 Mexico City, D. F. Maria Elena Bravo de Cordero Ave. Juarez 104
WTFI 1450 500 Athens, Ga. 133 E. Washington St.	XED 1160 500 Guadalupe, Jal. Cla. Radiofonografica, Apdo. 197
WTIC 1040 50000 Hartford, Conn. 26 Grove St.	XEE 1210 50 Durango, Dgo. 20 de Nov. 112 (Apdo. 148)
WTJS 1310 100 Jackson, Tenn. Sun Publishing Co., Sun Bldg.	XEFA 1180 500 Mexico City, D. F. Eduardo Limon Segul, Mediterraneo 236

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XEFB 1420 100 Monterrey, N. L. Jesus Quintanilla, P. O. Box 317	XEOK 765 2500 Tijuana, L. C. Carlos de la Sierra, Calle 5a 312
XEFC 1310 100 Merida, Yuc. J. Molina Font, Calle 59, 517	XEOX 840 250 Saltillo, Coah. Victoria No. 4, Altos.
XEFE 920 250 Laredo, Tams. R. T. Carranza, Km. 4 Carretera Laredo Mt.	XEP 840 500 Mexico City, D. F. Cla Difusora de Mexico S. A., Rembrandt 11
XEFG 1100 250 Mexico City, D. F. Ricardo Gonzales Montero, Tepic 48	XEPN 590 50000 Piedras Negras, Coah. Piedras Negras Brdstg. Co., Madero 53
XEFI 1440 250 Chihuahua, Chih. Feliciano Lopez Isles, Ap. 157	XES 990 250 Tampico, Tams. Fernando Sada, Box 309
XEFJ 1230 100 Monterrey, N. L. R. Junco de la Vega, P. O. Box 156	XET 690 500 Monterrey, N. L. P. O. Box 203, Hidalgo
XEFL 1160 500 Tijuana, B. C. (P. O. Box 6, San Diego, Calif.)	XEYB 1310 125 Torreon, Coah. Jose A. Berumen, R. Corona 317
XEFO 940 5000 Mexico City, D. F. Reforma No. 137	XETF 1220 12 Veracruz, Ver. Jose M. Lopez, Independencia 20
XEFV 1210 100 Jaurez, Chih. Cordova & Prieto, Ave. Ferroaril 104	XETH 1210 100 Puebla, Puc. Ramon Huerta G., Calle 17 Orient 11
XEFW 1310 250 Tampico, Tams. J. E. Martinez, Salvador Diaz Miron 6	XETW 820 500 Mexico City, D. F. Rafael M. Pena, Ave. 16 de Sep. 83
XEFZ 1370 100 Mexico City, D. F. Manuel Zetina, Calzada Nonoalco 481	XEU 1010 250 Veracruz, Ver. Fernando Pazos Sosa, Independencia 98
XEG 1270 500 Ensenada, B. C. Juan C. Chavez	XEW 890 50000 Mexico City, D. F. P. O. Box 2516
XEH 1150 250 Monterrey, N. L. Tarnava y Cia, P. O. Box 147	XEWZ 1150 100 Mexico City, D. F. Medellin e Insurgentes
XEI 1370 125 Morelia, Mich. Carlos Gutierrez M., F. I. Madero 646	XEX 1310 125 Monterrey, N. L. L. F. Petit Jean, P. O. Box 10
XEJ 1020 1250 Juarez, Chih. Juan G. Buttner, P. O. Box 111	XEXX 845 500 Mexico City, D. F. Av. Pino Suarez 9
XEK 890 100 Mexico City, D. F. Arturo Martinez, Jalapa No. 51	XEYZ 780 10000 Mexico City, D. F. Angel M. Diaz, Ave. Juarez 48
XEKL 1240 500 Leon, Guan. 5 de Mayo 26	XEZ 630 500 Merida, Yuc. Jorge L. Faiomeque, Estanores Ctd 214
XELA 1240 50 Saltillo, Coah. Enrique Gomez, Chautemcos 28 Sur	XEZZ 1370 100 San Luis Potosi, SLP Emilio Delgado R. Ave. Chiloensis 32
XELC 740 100 Mexico City, D. F. Manuel Valdes Bravo, C. Central 112	XFB 1270 1000 Jalapa, Ver. Gobierno del Estado de Veracruz
XELM 1310 15 Mineral del Monte, Dgo. Jose Sanchez, Abesolo 1-A	XFC 810 350 Aguascalientes, Ags. Gobierno del Estado de Aguascalientes
XELO 1110 10000 Piedras Negras, Coah. Piedras Negras Brdstg. Co.	XFD 1340 350 Orizaba, Ver. Gobierno Estado de Veracruz
XEMA 1080 50 Tampico, Tams. Manuel M. Pier, Artesanos 10	XFO 940 5000 Mexico City, D. F. Nat. Rev. Party, Ave. Morelos 110
XEMO 865 2500 Tijuana, B. C. P. O. Box 202, San Diego, Calif.	XFX 610 1000 Mexico City, D. F. Secretaria de Educacion Publica
XEMX 1280 12 Mexico City, D. F. Alfonzo T. Auales	10-AK 1200 15 Stratford, Ont. M. I. Higglus, 151 Ontario St.
XEN 710 1000 Mexico City, D. F. Corveceria Modelo Ave. Juarez 77	10-BP 1200 25 Wingham, Ont. W. T. Cruickshank, Box 65
XENT 910 60000 Nuevo Laredo, Tams. 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). 14.160 and 14.260 megs.	CJRO, Middlechurch, Man., 6.160. CJRK, 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.	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. 12.330; Sat., Sun., 9-10 a.m.
Broadcast Pickup stations: 1.606; 1.622; 1.646; 2.102; 2.150; 2.190; 2.390.	COH, Havana, Cuba, 9.500. 5-6; 8-9 p.m. CP5, La Paz, Bolivia, 6.080. 8-9 p.m.	DJA, Zezen, 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 LJK1 RNE RV15 VK2ME VK3LR VK3ME YDA	DJB DJN GSE GSE JVT JVU LKJ1 RV15 VK2ME VK3LR VK3ME W1XK YDA	GSE GSF Pont. Rabat RV15 VE9GW VK2ME VK3LR W8XK	DJA DJN GSE GSF HAS3 PCJ PH1 Pont. Rabat. VE9GW W1XK W8XK	DJA DJN GSB GSE PCJ PH1 Pont. W1XK W3NAL W8XK	DJA DJN GSB GSE HVJ PCJ PH1 Pont. RNE VE9GW W1XK W8XK	DJA DJN GSB GSE Pont. Rabat. VE9GW W1XK 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 DJD EAQ GSB GSD IRO Pont. VE9GW W1XK W2XE W3XAU W8XK W9XAA XEBT	DJC DJD DJD GSB GSD IRO Rabat VE9GW W1XK W2XE W3XAU W8XK W9XAA XEBT	DJC DJD DJD GSB GSD IRO Rabat VE9GW W1XK W2XE W3XAU W8XK W9XAA XEBT	COC CT1AA DJC DJD DJA GSA GSB GSD IRO LCL Pont. Rabat RV59 VE9GW W1XK W2XE W3XAU W8XK W9XF W9XAA XEBT YV3RC	COC COH DJC DJD DJA GSA GSB GSD IRO LCL Pont. Rabat RV59 VE9GW W1XK W2XE W3XAU W8XK W9XF W9XAA XEBT YV3RC	COC CT1AA DJA DJN DJA GSA GSC HC2RL HJ1ABB HJ2ABC IRA Pont. Rabat VE9GW W1XK W2XE W3XAU W8XK W9XAA W9XF W9XAA XEBT YV3RC YV4RC YV5RMO	DJA DJC DJN GSA GSC HC2RL HJ1ABB HJ2ABC HJ5B TINGP8 VE9GW W1XK W2XAF W2XE W3XAU W8XK W9XAA W9XF W9XAA XEBT YV2RC YV3RC YV4RC YV5RMO	CJRO CJRXX COH CP5 DJA DJN DJC HJ1ABB HJ2ABC HJ5B HJ1ABB HP5B TI9P TI9PH W1XAL W1XK W2XAF W2XE W3XAU W8XK W9XAA W9XF W9XAA XEBT YV2RC YV3RC YV4RC YV5RMO	CJRO CJRXX DJN DJC HJ2RL HC2ET HJ1ABB HP5B OAX4D PRADO TI9P TI9PH W1XK W2XAF W2XE W3XAU W8XK W9XAA W9XF W9XAA XEBT YV2RC	CJRO CJRXX DJC DJN HJ2RL HC2ET HP5B OAX4D PRADO TI9P TI9PH W1XK W2XAF W2XE W3XAU W8XK W9XAA W9XF W9XAA XEBT YV2RC	CJRO CJRXX COH DJN HJ2RL HC2ET HP5B OAX4D PRADO TI9P TI9PH W1XK W2XAF W2XE W3XAU W8XK W9XAA W9XF W9XAA XEBT YV2RC

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, Aranjues, 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, Skesesfehear, Hungary, 15.370. Sun., 8-9 a.m.

HAT, Skesesfehear, Hungary, 5.400. Sun., 8-9 p.m.

HBL, Prangins, Switzerland, 9.595. 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.

HHH, San Pedro de Macoris, D. R., 6.810. 4-7:30 p.m. daily, and 3-4 a.m. Sunday.

HIX, 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, 14.630.

HJ1AB3, Barranquilla, Colombia, 6.447. 6-10 p.m.

HJ1AB3G, Barranquilla, Colombia 6.042. 7-10 p.m.

HJ2ABC, Cucuta, Colombia, 5.975. 6-9 p.m.

HJ3AB3D, Bogota, Colombia, 7.406. "Colombia Broadcasting" 6-9 p.m. daily.

HJ4AB3E, Medellin, Colombia, 5.900. 7-11 p.m.

HJ1ABL, "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, 14.645. Phones Hialeah.

HP5B, Panama City, Panama, 6.030. 7-10:30 p.m.

HP5J, Panama City, Panama, 9.590. 8-11 p.m.

HSJ, Bangkok, Siam, 7.950.

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, 5.799. 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; 6.670; 8.230; 8.820; 8.840; 13.200

KWO, Dixon, Calif., 15.415. Phones Hawaii and Manila.

KWU, Dixon, Calif., 15.355. Phones Japan.

KWX, Dixon, Calif., 7.610. Phones Hawaii.

LCL, Jelo, Norway, 6.139. 11 a.m. to 5 p.m.

LKJ1, Jelo, 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.

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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.

RKI, 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. 3-9 a.m.

RV59, Moscow, U.S.S.R., 5.906. 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.

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

VE9GW, Bowmanville, Ont., 6.095. Sun., noon to 3 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, Selridge Field, Mich. 6.425.

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

VK3LIT, Melbourne, Australia 9.580. Daily exc. Sun. 4-8 a.m.

VK3ME, Braybank, Australia 9.603. 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, 6.385.

WOO, Ocean Gate, N. J., 4.273 ; 4.753 8.560 ; 12.840. Phones 8Hps.

W1XAL, Boston, Mass., 6.040. Tues., Thurs., 7:30-9:30; Sunday, 5-7 p.m.

W1XK, Mills, 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. M., 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. 9.900. Noon to 8 p.m.

W8XAL, Mason, Ohio, 6.060. Irregular.

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, Bandoeng, 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. Relay's 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. 5-10 p.m.

YV4RC, Caracas, Venezuela, 6.375: 4:30-10:30 p.m.

YV5RMO, Maracalbo, Venezuela 5.850: 5:15-10:15 p.m.

YV6RV, Valencia, Venezuela, 6.520. "La Voz de Carabobo."

ZFB, St. George, Bermuda, 10.060.

ZFB, Nassau, Bahamas, 4.513.

The Cadena Indo-Americano includes stations: HJ1AHH, PRADO, TIEP, YNLF, YV4RC, YV5RMO.

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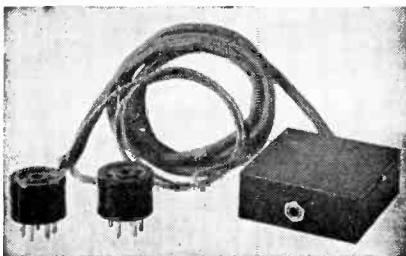
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