

MID-SUMMER EDITION

# RADIO INDEX

WHAT'S ON THE AIR TONIGHT?



25¢

Opinions of Experts on Aerials and Grounds  
Can a New Zealand Ten-Watter be Received  
in Brooklyn?

The Foreign Short Wave Stations Arranged  
by Frequencies

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JUNE 1, 1932



# RADIO IN INDEX

REG. U. S. PATENT OFFICE

FRED CLAYTON BUTLER

*Editor and Publisher*



## EXPERTS' Ideas of Aerials and Grounds

**P**ERPLEXED radio fans, who desire to get the most out of their receivers, frequently are confronted by the highly controversial problem: What are the best types of antennas and grounds? Since there is a divergence of views held by many listeners, the following article, including the results of years of research by some of radio's leading minds, will prove appropriate and authentic.

First let us consider the aerial or antenna. Its function is to radiate broadcast waves or electro-magnetic energy from a transmitting station, and to intercept these waves at the point of reception. The broadcasting antenna system is a complex device, and must be mathematically calculated. But a receiving antenna is by far the simplest from an engineer's viewpoint.

Radio waves are emitted in all directions from the transmitter with the speed of light—186,000 miles a second. They are made to vibrate at the frequencies assigned to that particular apparatus. About each broadcasting center there rapidly swings back and forth a far-reaching magnetic field which oscillates from 550,000 to 1,500,000 times a second in the broadcast band. Most of us know that a wire or electrical conductor, when moved rapidly through a magnetic field, will have a slight electric current induced in it. The electric dynamo or generator is such an example, in which a stationary magnetic field is cut by rapidly moving turns of wire on the spinning armature. But in the case of the radio antenna the wire stands still and the magnetic field moves. In both

cases the final effect is the same—generation of electric currents in the wire.

So then, we see that a wire, metal roof, pipe, window screen, bed spring, railroad track, and in fact any metallic conductor of electricity throughout the world, is filled with minute electric impulses, for these objects have alternating currents induced in them by the passage of the broadcast waves which constantly fill the air. Of course we are ignorant of these tiny charges of electricity, but as soon as a sensitive radio receiver is connected to the metallic object there is audible evidence of what is in the air all about us.

### Aerial Generates Current

The radio antenna is a horizontal wire used to generate very weak electric currents from the passing radio waves. It carries these extremely low voltages to the sensitive tubes of the radio set for amplification. These currents are often less than one-millionth of the voltage required to light the tiniest light bulb. The receiving antenna is not in a state of resonance like the broadcasting system, and therefore, its length is not critical; it is aperiodic instead, and is filled with different currents flowing at various frequencies in harmony with the many passing broadcast waves. If we should connect an untuned radio set we would hear a great confusion of sounds. It takes a selective receiver to tune out all unwanted radio currents. This is done by tuning the receiver to resonance to one single frequency that is being induced in the antenna. All others cannot get through.

The purpose of the antenna, therefore, is to present a good conductor which will best intercept the passing waves. All such high frequency currents flow only on the surface of the conductor, so it is necessary that wire of considerable surface be used in the antenna. There is an effective limit to the length of the wire, over which no additional energy will be induced. Long waves, swinging at very low frequencies, are not energetic about inducing strong currents in the antenna, and some commercial aeriels reach 6,000 feet in length. Short waves swing very rapidly, for their frequencies are intense, and induce relatively strong currents in the antenna. We do not need long aeriels for short-wave reception, and broadcast reception, bordering between the short waves and long waves, calls for average length antennas.

#### Directional Effect

An antenna has a decided directional effect. The magnetic field of the broadcast wave swings back and forth at right angles to the line of advance from the transmitter to the receiver. Therefore,



Ed Wynn, "The Perfect Fool," as "The Chief" of Texaco Program, Tuesdays, 9:30 p.m., EDST.

an aerial hung so as to point toward the broadcaster, will present the greatest possible surface to intercept a great many moving lines of force. An aerial swung at right angles to the former position will be end-on to the magnetic lines of force, and will be cut by so few of them, that the induced current will be very weak.

#### Opinions of Engineers

A very interesting consensus of radio engineering opinion, taken from the works of outstanding authorities, and statements from leading agencies such as the U. S. Bureau of Standards, the Naval Radio Research Laboratory, the Radio Corporation of America's Engineering Laboratory, and others, indicates complete agreement on what constitutes essential antennas and grounds.

The president of the National Radio Institute, Mr. J. E. Smith, who for years has been teaching radio and has educated thousands of servicemen, states: "Choosing a proper aerial is largely a matter of knowing the characteristics of your radio set. In general, the length should be between 40 and 100 feet, using the shorter for modern sensitive sets and longer lengths for older and less sensitive receivers. The shortest aerial to give best results is the most desirable." That this statement is similar to others from leading authorities is shown by what a Government radio investigator of international repute informally told the writer: "The ideal length of aerial depends upon the design of the particular receiver. For instance, there are two receivers on the market, both very high grade and expensive, yet one is designed for use with an antenna 20 feet in length, and the other for one from 70 to 100 feet long." This, however, puts it up to the set manufacturer to indicate the kind of aerial to use with their receivers. Most of the makers do this.

The engineering laboratory of the Radio Corporation of America, headed by a famous scientist, has, without doubt, had more practical radio experience than any other world organization. "We recommend," they told RADEX, "a horizontal length of about 35 feet in

*Continued on page 30*

# Checking DX for a Doubting Thomas

A PHILADELPHIA reader who asks that we do not use his name, writes as follows: "On page 19 of the May RADEX, you print part of a letter from Richard D. Caddell, Pittsburgh, Pa. In this letter, he states that he has 3GL, Geelong, Australia, with 50 watts power, verified. He also states that he has a verification from PRAX. In the April issue, you also printed one of his letters wherein he stated that he had listened in and experimented with different types of aerials and grounds in many different localities, both in the United States and Canada *and also abroad*. Those last three words gave him away as it is practically impossible to log such stations as he claims to have heard, in Pittsburgh. Why not, in fairness to your readers, state that this DXer has traveled abroad, when printing such exceptional records?"

## Proof From Brazil

Upon receipt of the above letter, we wrote Mr. Caddell and asked him to send us the original verifications from the two stations named. They are now before us. The letter from PRAX is signed by V. A. Borges, Technical Director. It is dated February 13th, 1932, and is addressed to Mr. Caddell *in Pittsburgh*. It reads in part as follows: "We are in receipt of your letter of the 26th January in which you report having received our transmission of *the previous night*, at 9:31 EST which checks with our station log on that date. . . . PRAX has a carrier wave on 1360 kcs. of 750 watts with 100% modulated peaks of 3000 watts. It was locally built by the writer and is completely operated from the a. c. mains rectified current, the filaments being all a. c. fed, modulators and master oscillator included. It was, really surprising that the station should have such a reach out to the U. S. A., as our antenna is only 16 meters high located between a sky-scraper 125 meters high and a hill about 50 meters.

"Our time on the air: Weekdays, 10:00 a.m. to 12:00 noon and 8 p.m. to 11 p.m.; Sundays, 10 a.m. to 12 noon.

## Can Brooklyn Hear a Ten-watt Zealander?

The time is local and therefore one hour in advance of your EST."

## Here's Another One

To give further proof if any were necessary, Mr. Caddell also sends a letter from another Rio de Janeiro station, PRAK, from which we quote. This is dated February 20th, 1932, and is also addressed to Mr. Caddell *in Pittsburgh*. "We herewith duly acknowledge the receipt of and thank you for your letter dated 19th ult. On the night of the 18th January, at 9 o'clock, we were transmitting Brazilian music accompanied by 'violao' and 'cavanquinho,' hence your impression of 'marimba' music.

"Our transmitter is rated at 1154 kcs. using 1000 watts carrier and 2000 peak with 50% modulation. We do not use crystal control. . . . We are located right in the business center of Rio de Janeiro. Our building is of six stories on top of which is our broadcasting station as you will see on the pictures enclosed. Our schedule of regular broadcasting is: Weekdays, 3 to 4 p.m. and 8 to 11 p.m.; Sundays, noon to 3 p.m., Rio de Janeiro time.

"Our city is not particularly suitable for reception from distant stations, due to surrounding high mountains. Still the following American stations are successfully tuned in: WOR, KDKA, WGY."

Both of the above letters are verifications of the most unquestionable character and it will be noted from both that Mr. Caddell's letter to them was written *the next morning* after receipt of program. This is important as it excludes any possibility of learning about the program from other sources and then claiming to have verified it. So much for Rio de Janeiro; now for Australia.

## Now for Australia

We have before us a letter from 3GL, National Mutual Buildings, Moorabool Street, Geelong, Victoria, Australia,

dated 4th February, 1932, addressed to Mr. Caddell at *Pittsburgh*. "Please accept our grateful thanks for your report of December 21st which reached us today. We are astonished that you have been able to pick up our transmission at such a distance, but had we not already received a report from Mr. J. L. Heuter, of 1802 Columbia Ave., Philadelphia, we should have been more astonished. We are very gratified indeed to know that our station is received by you at a greater strength than any of the Australian stations because, while we have an aerial output of only 50 watts, there is a station at Corowa, New South Wales, which is broadcasting on 7500 watts and we should have thought they would have come in much stronger."

Thus reception of this 50-watt station in Australia is proven not only possible in Pittsburgh but also in Philadelphia, the home of our "doubting Thomas."

For extra good measure Mr. Caddell sends along some of his latest verifications from other low-power and foreign stations. These verifications are not merely courtesy cards, but refer definitely to the program received, which in nearly every case, was the night before Mr. Caddell's letter was mailed to the station. Among these verifications are those from JOIK, Sapporo, Japan; JOGK, Kumamoto, Japan; JOFK, Hiroshima, Japan; JOAK, Tokyo, Japan (The latter asks: "Is it possible to separate our station over there in Pittsburgh after the sunrising?") Other verifications are from HIX, Santo Domingo; 2YA, Wellington, New Zealand; KZRM, Manila; NRH, Costa Rica; TICR, Costa Rica. (NRH was using but seven and one-half watts power when received.)

#### A Sharp Criticism

To get back to our critic again, he says further: "Why don't you use some common sense in printing DX records? You print a letter from Karl Halpern, Brooklyn, N. Y., as hearing 1ZB, an 18-watter in Auckland, N. Z.; 2ZL, a 15-watter in Hastings, N. S.; HRB, Honduras, which hasn't been on the air all winter."

*Continued on next page*



"Tom, Dick and Harry, that popular vocalizing trio, who feature the Willys-Overland program Wednesday evenings at 8:15 p.m., EDST. Carl Hoefle, accompanist for the trio, is at the piano.



At our request Mr. Halpern has submitted his verifications for these three stations. The one from HRB is dated "6 Oct., 1931." That of 1ZB covers reception of November 2nd, 1931 and gives the power of the station as "Input 62, Output 32." It is personally signed by C. H. Pearson, Manager, D. Shepherd, Operator, and Hartley Heising. From 2ZI comes not only a verification card but a personal letter from the Managing Director of Sutcliffe's Limited, Russell Street, Hastings, N. Z. It reads in part as follows: "Your post-card reporting reception of our station to hand, for which we thank you. This surely was a surprise to us, and have no doubt it will be to you when we tell you that the power of our station is *only 10 watts*."

#### Distance Record for 2ZI

"We are constantly receiving reports from listeners all over the Dominion of New Zealand at varying distances, from 10 to 700 miles, but the report you have just sent us is easily the record for distance.

"Your report was quite correct. Our announcer was just closing down, the record you heard was 'Good Night Waltz,' a Columbia record and commences with the 'Last Post.'

"If you intend making a press report of this reception, we shall be delighted to have a cutting which will be of great value to our engineer and operator."

Can there be the slightest doubt that Mr. Halpern heard 2ZB and reported it correctly? If then, a ten-watt station in New Zealand can be verified from Brooklyn, New York, just what reception is impossible?

#### Now for the Two-Tuber

In our April issue we published an article by George Lilley entitled "Girdling the Globe with Two Tubes." Although we did not give his address, Mr. Lilley received letters which, to put it mildly, questioned his veracity. Mr. Lilley, too, makes a practice of sending his report of reception immediately after its receipt. One of the stations he received was LR5, Buenos Aires, Argentine, a 500-watter. The verification reads as follows: "In reply to your letter of the 17th of January, we have much pleasure

to confirm that the station picked up by you on the morning of *the same day* was our own station, LR5, Radio Excelsior, which operates on a frequency of 830 kcs.

"We have looked up our records and find that on the day and at the time you mentioned, the musical numbers referred to were placed on the air by LR5.

"It has given us great pleasure to learn that our station should have been heard by you at such a far distant spot, and we shall greatly appreciate it if you will again endeavour to pick us up and let us know accordingly."

Mr. Lilley adds: "Now, Mr. Editor, after a person has received a station, mails the report on the same day as reception, has this fact acknowledged in his verification, and gets a specific letter like the above from the station, what else can he do to prove to the skeptic mob that he is absolutely fair in his claims. It is rather discouraging to DX morning after morning until a good catch is made and then have letters coming like the one I received after making public my reception."

#### Covering World with 7½ Watts

We think there must be some DXers who think that any station they never heard, simply cannot be brought in. The little NRH with 7.5 watts has letters from all over the world proving reception of this station. This being a fact, practically any station in the world can be tuned in with this combination of circumstances: an excellent location, a sensitive and selective set, the best of tubes, a perfect aerial-ground, skill in tuning, willingness to work night after night awaiting a break, and patience, patience, patience.

With a record like that of Mr. Caddell, many readers would naturally assume that he possessed the very latest of the dozen-tube receivers, but this is not the case. He is using what he terms a "rejuvenated" R. C. A. 60 superheterodyne, similar to thousands of this model in use all over America. Although his set was an extremely sensitive one originally, he has made changes which have added greatly to the volume. In this regard Mr.

*Continued on page 31*



# PUZZLES MIXED with RADIO

A GREAT many of our readers got as far as the No. 1 puzzle in May and there they stuck. We know they will be interested in the method of working this problem. F is obviously 1 for F times FAN equals FAN. In order to subtract A from A and get A, the figure must be either 0 or 9; it cannot be 0 for A times FAN equals FZND. A must be 9 and therefore R must be 3. D is obviously smaller than N and N times N equals X. Subtracting N from (1)D must give the same final figure as N times N. Only the figures 8 and 2 will do this, therefore N is 8, D is 2 and X is 4. Taking D (2) from E leaves N (8) so E must be 0. This makes Y 5 and Z 7. RADEX is 39204 and FAN 198. A very good puzzle.

The No. 2 problem was, of course, solvable only by elimination. So far as we have been able to find the following solution is the only one although our readers may possibly work out some other.

K	
WW	CJAC
KSL	WMBR
CMBC	

The horizontal calls are KSL and CMBC; the verticals are WSM and KWKC and the diagonals, WSB and KWLC.

No. 3 is filled in as above and the calls are CJBR - WJAC - WJAR - WJBC - WMAC - CMAC - CMBC - CMBR - WMBC - WMBR. Fortunately we advised our readers to use the April issue in solving these puzzles for the call CMAC did not appear in May. Our readers found ten calls instead of eight.

No. 4, the cross-call, was not unusually difficult although many experienced some trouble in getting started due to the unusual beginning "1-12 Chicago, Milwaukee and St. Paul," which indicated three calls from these three cities. 1-12 was WSBC; 5-8 WHAD and 9-12 KSTP, all reversed.

The complete solution is as follows:

## Four More Hard Ones

CBSW DAHW PTSK  
 AOK AOVKOH VAS  
 SK Q WLWI N SC  
 K VOW WK WGR J  
 K WOC WOW B  
 CTZ RRWWRL KGW  
 SMBW WAAT WOKO  
 CKWK WAAM WIBR  
 WMC YGWFKD LFC  
 J KOL SIW K  
 Y UGK WW KHH Z  
 CI O KHJT O KB  
 FFX KLOAMK KXL  
 CKCV SMGW ZBAW

## The June Problems

As our readers have three months in which to solve the puzzles in this issue, we are giving them some extra hard ones. No. 1 is submitted by Donald McNeil, Hamilton, Ontario. The problem is to fill in eight three letter calls so the name of an important city will appear in the middle line. Only one call is to be used from any one state.

W	W	W	K	W	W	□	W
□	□	□	□	□	□	□	□
□	□	□	□	□	□	□	□

No. 2 is another mathematical puzzle designed by George Raba, Stevensville, Mich., who gave us the square root problem for April. This one is also in division. Each of the letters stands for a figure and the problem is to change the letters into the figures for which they stand.

	RADEX
X	PRESS
	DP
	SE
	SR
	ES
	RX
	PS
	PS

In No. 3 we have another palindrome puzzle similar to that in April, the answer to which was given in May. A

palindrome, let us repeat, is a word or sentence with the letters in the same order, reading either left to right or right to left. A typical example is the celebrated sentence said to have been used by the first man when he introduced himself to Eve—"Madam, I'm Adam." The problem is to rearrange the letters given below into 13 station calls so that they will be in the same order from left to right and vice versa. No call is used twice, or rather, each call appears only twice.

WCWK CWWK KWWC CMWJ  
WKWW KCKW CMJA CVCR REAC  
WAJC JAA RARE CVC.

The Cross-Call, No. 4, is designed by Daniel C. Looby, of Philadelphia. Following is the key:

#### Across

- 1 A channel to itself
- 5 500 watts on 700
- 9 Western broadcasting company
- 14 Frequency is the same as power
- 18 NBC
- 21 2300 watts
- 24 Smallest in Washington
- 27 In K-21
- 31 First two of key station
- 33 Last two of 5000 watt Columbia
- 35 Four stations share time
- 39 5000 watt Canadian
- 42 First two of Carleton College
- 44 Last two of Bellingham
- 46 In X-31
- 49 Last three stand for city (Jumbled)
- 53 Second and four of station on 1310
- 55 Last two of smallest in state
- 57 On 1500
- 61 A state university
- 64 100 watts sharing with 50 watter
- 67 Ten k.w. on 1166
- 70 Recently exchanged waves with another 100-watter (Jumbled)
- 75 Purdue
- 79 Queen City Broadcasting
- 83 On 1370

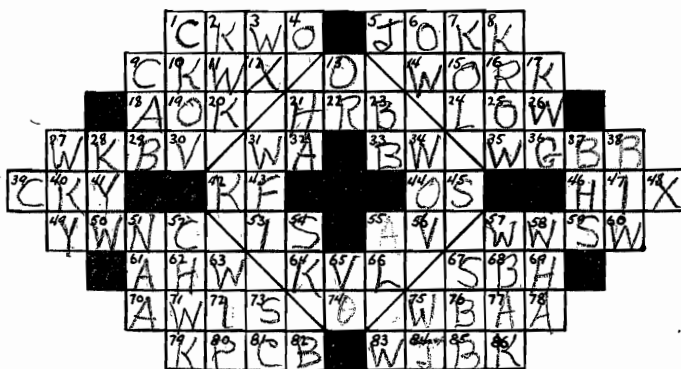
#### Down

- 1 J. W. B. Browne
- 2 A palindrome
- 3 First two of Detroit
- 6 Last two of station in Q-14
- 7 A CBS in the NW
- 8 Educational broadcasting corp.
- 9 In Canton
- 13 Last two of Lincoln
- 17 On 1200
- 21 Last two of 61
- 23 Last two of Joliet
- 27 A radiophone company
- 28 National using same transmitter as sister station
- 31 Department store on Red
- 34 1000-watt daylight
- 37 Last three of Alabama
- 38 First three of New York
- 51 Time
- 52 Odd frequency
- 54 Second and fourth of 200-watter
- 55 Last two of station on 1310
- 57 Police
- 58 First three of Courier Journal
- 63 Uses two calls
- 65 Middle two of four
- 67 In Goteborg
- 73 First two of Sweden
- 75 First two of 24

In this puzzle Mr. Looby has used a few calls from the list of world stations published in the April and May issues. Five or six calls have been reversed, but these are not indicated. So watch out for these.

Get the correct solutions to these four problems to us by August 20th and receive a copy of the September RADEX free.

Puzzlers who desire to submit cross-calls of their own composition are invited to try their hand, using any of the blanks that have been used in previous issues of this magazine.



# GOOD NEWS and NEW GOODS

**I**N our February issue we printed a letter from Boyd Erlbeck, Lodi, Calif., in which he stated that he had added a G. M. Converter to his Majestic TRF receiver and secured an increase in volume of at least 25% and extreme selectivity. Mr. Erlbeck said that with the converter he had tuned in a station on every channel from 540 to 1500 without a miss and with no interference from stations on adjoining channels even those like XER which is but five kcs. from WSB. This letter brought us many inquiries in regard to this converter. Now W. A. Edwards, 329 Fayette St., Portsmouth, Va., writes us of his experience with the same device. The full name is The G. M. R. Super-Heterodyne Converter with Remote Control, and it is made by the General Motors Radio Corp., Dayton, Ohio. It is said to convert any tuned radio frequency set into a superheterodyne with remote control. It does not have the appearance of a radio set but is mounted upon an attractive pedestal with an ash-tray at the top. The Converter adds two tubes to TRF sets, thus accounting for the increase in power. It has a 30-foot cable attached which goes to the set, thus enabling one to place the converter next to his easy chair and control his set without leaving his chair.

Says Mr. Edwards: "The dial of the regular receiver is placed at 550 kcs. and the cable of converter attached to the set which is then controlled entirely from the converter. Before I got this converter I got from three to five stations at a single point on my Freshman Equaphase G-5, but now I can pick a station on every line with no interference from the station on either side. Our local station, WTAR, Norfolk, Va., is only four miles from me and I can cut it off on 780 kcs. and get WJZ on 760 and WGY on 790." This device is not a short-wave converter, as many assumed, but is for use with the regular b. c. receiver giving superheterodyne results with a TRF set.

## New Developments in Radio Field

### The Crosley "Litlfella"

There have been many references in letters from our readers to the Crosley "Litlfella" Superheterodyne and here it is. It incorporates the Crosley five-tube Pentode, variable-mu, superheterodyne chassis with continuous static and tone control, illuminated hairline shadow dial with vernier drive, combined volume control and on-off switch and the Crosley seven-inch full floating moving coil dynamic speaker.



The front panel is of figured walnut veneer. The top and sides are finished in Adam brown. The edges of the speaker grille are covered and finished in a darker shade and the entire grille is backed by shimmering gold cloth. The dimensions are 17 inches high, 13 inches wide and 8½ inches deep. It lists at \$36.36. The maker: The Crosley Radio Corp., Cincinnati. Full information regarding the "Litlfella" may be secured from R. Dods, Advertising department.

### Improving the Tubes

A radio set is no better than its tubes.

## TRIPLE-TWIN



Engineers are constantly at work to improve the performance of tubes which is evidenced by the new types appearing on the market. Here is the "Triple-Twin" Type 239, developed by the Cable Radio Tube Corp, 230-240 North Ninth St., Brooklyn, N. Y. This variable mu frequency pentode, while designed principally for use in automobile and d. c. sets, is finding wide employment in the new a. c. receivers.

### What Set is the "Best?"

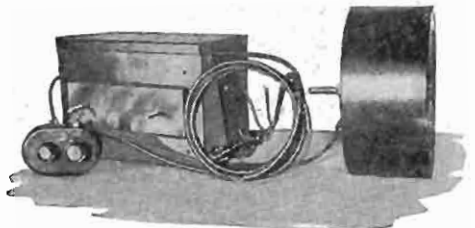
We receive hundreds of requests from our readers as to the "best" receivers for the short waves. We can no more assume the responsibility for naming the best radio set than we can for choosing the best automobile. The "best" is a matter of individual opinion. We will, however, from time to time, present in these columns information regarding sets which are worthy of consideration for this title. This month we give you the Royal Short Wave Receiver, manufactured by the Harrison Radio Co., 142 Liberty St., New York City. Unfortunately the price is not given us but it is said to be ex-

tremely low priced, whatever that means. Using only two tubes, a -32 screen-grid detector and a -33 power pentode output tube, it is claimed to have the sensitivity and volume of an ordinary four-tube set. This receiver is battery-operated in order to eliminate all hum and other noise inherent in a. c. sets. However it is claimed that the use of the new two-volt tubes gives a set of batteries with ordinary use, a life of six months.

The Royal receiver is available in two types, the "Regular" and the "Band Spread." The latter has the 20, 40 and 80 meter bands widely spread for ease in tuning. This type, however, is not designed to cover the rest of the short-wave spectrum. The "Regular" covers a band from 14 to 200 meters and a special coil will extend its range to 550 meters. Both sets are housed in attractive, crackle-finished metal cabinets completely eliminating all hand capacity effects.

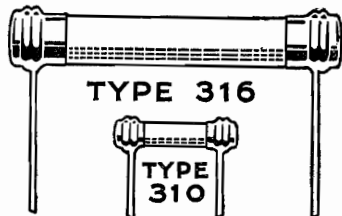
### Radio for Motor Cars

And here is a radio for the automobile. Thousands are now equipping their cars with sets in order that they may "radio as they go." This one is made by the J-M-P Manufacturing Co., of Milwaukee, Wis. The price is \$40.00. The "Auto-Dial" Receiver, as it is called, is one of the most compact auto receivers on the market and is readily installed under the cowl or the engine hood. The tuning is at the finger tips with the remote control mounted on the steering-post. Only two holes are required for bolting the set to the car. The set uses two -24 tubes, one -35, one -27 and one -47 for power output. Either B batteries or a B eliminator may be used. Consumption of B current is said to be very low, giving a set of batteries a six-month life. An aerial may be installed in the roof of the car or under the running-



boards, although many of the new cars are now coming wired for radio.

### Resistances and Controls



The Central Radio Laboratories, 900 E. Keefe Ave., Milwaukee, Wis., are manufacturers of many radio devices. Among them are volume controls, potentiometers, rheostats, resistors, and controls for a series of headphones or speakers as in hotels or hospitals. We illustrate their "Centrallab" Fixed Resistor. These are made from a carefully calibrated resistance material which is forced under tons of pressure through double dies and baked for hours in ovens and then fired at over 2500° F. They look like stone and are said to be just as permanent. It is claimed that no moisture can possibly penetrate these resistors so age cannot change the resistance value.

### Adjusting Meters

Our service-men readers will be interested in this description of the "Readrite" Oscillator for adjusting all receivers. This is manufactured by the Readrite Meter Works, Bluffton, Ohio. The price is \$18.00 to dealers. It is completely shielded, self modulated. Furnished with batteries and one -30 type tube. Covers entire broadcast and intermediate bands. This instrument is used to align r. f. gang condensers, locate defective r. f. transformers, adjust i. f. transformers,



compare gain in tubes, check the efficiency of the radio set oscillator circuit in the b. c. band and determine the sensitivity of the receiver. The manufacturer makes many other instruments for the service-man's use.

### Cutting Out the "Blurbs"

Have you ever wished you could touch a button and cut out the speaker when the ballyhoo starts about "twenty words, no more, no less" or "see your dentist twice a year?" Well, the Alden Products Co., Brockton, Mans., are making it possible with their "Na-ald" Fade Out. A push-button attaches to the receiver by a cable. This can be placed at your easy chair, at the dining-table, at the ironing-board or at the telephone. If you are reading, and talking annoys you, if the radio interferes with the use of the phone, just press the button and presto, the annoying "these are the terms of the contest" fades out to a whisper. The price is one dollar. Just as simple and lots more effective than cussing the announcer.

### A Late Superheterodyne

The whole radio field seems to be going superheterodyne and that sensitive and selective circuit is attracting ever-growing interest among listeners. Here is the Midwest 11-tube, a high-powered but low-priced receiver, made by the Midwest Radio Corporation, 909-911 Broadway, Cincinnati. It is not sold through dealers but direct from factory to user. Their catalog RI will be sent upon request.

The Midwest "11" has two pentode output power amplifier tubes in push-pull, variable-mu screen-grid, full-vision dial, built-in aerial, pre-selector, tone control, static modulator and automatic volume control. It is a completely balanced superheterodyne unit with ten tuned circuits. Users testify that the Midwest "11" has better tone, sharper selectivity and greater sensitivity than many superhets costing twice and three times as much. Other features of this receiver are the covering of the short wave police band, a built-in extra light socket and a phonograph connection. An outside aerial may be used if desired, although most users find that the built-in

*Continued on page 72*

# TAKING It Up with the EDITOR

**E**VEN if weather conditions are favorable during the long summer months for distant reception (as they sometimes are), most of the thrill and edge of DXing will be taken away without the familiar monthly issue of RADEX on top of my set." This letter from our friend, Richard D. Caddell, 605 Ridge Ave., Pittsburgh, Pa., is typical of many we receive at this season of the year. While we always heave a sigh of relief when the June issue is "put to bed" as the newspaper boys term it, and we think gleefully of the two months' relief from editorial worries, yet we miss the monthly visits with our readers. We would gladly go on with our work in July and August if our readers would do their share, but the competition of vacations and golf and motoring and baseball and what not are too great and the drop in sales during these two months would be too great to warrant.

But we shall not be idle. The summer will be spent in getting ready for an even bigger and better RADEX beginning with September. There is much to be done. We want to send out a questionnaire to all broadcasting stations for fresh data, particularly in regard to their policy respecting verifications and their time on the air. We do not know yet how we can best present the latter feature for the convenience of our readers, but there is a widespread demand for data showing the hours of each day of the week that stations are on the air. This may appear in regular issues of RADEX or perhaps in a separate publication combined with a new and up-to-date map.

## New S-W Department

Then your Editor is purchasing one of the best of the new all-wave receivers in anticipation of a new department devoted to reception on the short waves. So many of our readers are now exploring these higher frequencies with their cargoes of foreign programs, that we realize that this magazine must give attention to this important and intriguing field.

Another new department is that of

## Interesting Chats With Our Readers

"Good News and New Goods" which begins in this issue. Under this or a similar heading, we will describe the good things of radio particularly the new developments.

So, while you will not hear from your favorite magazine for two months, it will be hard at work preparing new material for your enjoyment and assistance. We hope our readers will have a most enjoyable summer and return to their radios in September with new interest and enthusiasm.

## A New Zealand Amateur

Continuing with Mr. Caddell's letter we find: "How is this for a record? After years of DXing, I have finally pulled in my first foreign amateur station—that is an amateur station in the broadcast band, 9000 miles away. On the morning of April 30th, at 2:02 a.m. EST, I picked up VJN, an amateur in Sydney, Australia, on 1500 kcs. He was calling another amateur, VJNS, at Perth, Australia. I would like very much to find out VJN's address in Sydney." Mr. Caddell reports a new Australian—The



Adele Ronson who has achieved a wide popularity through her work on "Radio Guild," "Moonshine and Honeysuckle," Collier's Hour, and other NBC programs.

Reverina Regional Station, 2CO, located at Corowa, New South Wales, on 560 kcs. with a power of 7500 watts, making it the most powerful station in Australia. The new station is on a chain with 3LO and 3AR. Their schedule is from 7:30 a.m. to 11:00 p.m. weekdays and from 11:00 a.m. to 10:30 p.m. Sundays, Melbourne time. (Noon EST is 3:00 a.m. tomorrow in Melbourne.) Programs of Melbourne, Sydney, Brisbane and Hobart stations, Mr. Caddell points out, are on Eastern Australia or Melbourne time; Adelaide is half an hour behind Melbourne time and Perth is two hours behind.

Here's one that picked up the new 2CO: "Have you any information on an Aussie on 560 kcs?" asks Stanley Savage, Route 4, Spokane, Wash. "They come in fairly well. Also one on 635 kcs. The latter comes in fine and according to his time which I've heard several times, he is six and a half hours west of here (PST)." Mr. Savage wonders why the Hawaiian stations do not come in as well as those in the Antipodes so much farther away.

#### News from Japan

"Here is a bit of news from Japan," informs Mr. Caddell. "The Japanese Government has just issued a permit to the Japan Central Broadcasting Corporation to erect seven new broadcasting stations in areas not provided with sufficient service with the sixteen radio stations now in use. Here is the regular broadcasting schedule of the seven J. B. C. 10 kw. stations on the chain which I wish you could find room to insert in an early issue of RADEX, as many RADEX DX fans have been writing to me for this schedule: Time schedule: Evenings, J. S. T. (135 E) 6:00, music, talk for children; 6:30, lecture, talk, music; 7:00, news, weather forecast, information; 7:30, music; 9:40, time signals, news, weather report, information, etc.; 10:00, sign off the air. This schedule is for JOAK, BK, CK, FK, GK, HK, and JOIK, and is copied from the above named station's verification cards. All Japanese stations are on the air from 6 a.m. until 10 p.m. Japan Standard Time."



*Irma Glen is becoming one of Radio's most popular organists. She may be heard on several NBC programs including "Beautiful Thoughts," Daily, except Sunday, 9:30 a.m., EDST.*

#### Did They Hear 4RK?

"Several DXers have reported hearing 4RK on 395 meters. It is not broadcasting there and never has been. It broadcasts on 329 meters," criticizes Don Townsend, 1421 Arch St., Berkeley, Calif. "4RK relays 4QG's programs, but occasionally 4RK provides a local program which it broadcasts and relays to 4QG. Then a listener hearing 4QG would hear them announce as 4RK and think they were getting 4RK direct. The above information was taken from the *Queensland Radio News*. Also several DXers have given lists on airport stations which they say broadcast on the b. c. band. These stations actually operate on a low-frequency and only their harmonic is heard on the b. c. band. The airport stations are supposed to have special harmonic-suppressor devices, but they don't seem to work so good, as KCV comes in very loud on 1000 keys. and their real frequency is 332 kcs. This from KCV's verification."

#### Some Tips on Australia

Ralph H. Schiller, Hawthorne, N. J.,



sends the following interesting info regarding some Aussies:

"Have just received a letter from Australia this date and same contains some information concerning two new radio stations. Herewith is information on two new stations of Australia:

"VK2CH, Sydney, Australia; 1210 keys. Hours of broadcast in eastern standard time are as follows: Mondays to Sundays: 7:00 to 9:30 p.m., 11:00 p.m. to 1:30 a.m., and 2:15 to 7:00 a.m. Owned and operated by Council of Churches, 147 York Street, Sydney, New South Wales, Australia.

"VK2SM, Sydney, Australia; 1270 keys. Hours of broadcast in eastern standard time are as follows: Daily except Saturdays and Sundays: 4:30 to 5:30 p.m., 7:00 to 9:00 p.m., 2:45 to 7:00 a.m. On Saturdays from 4:30 to 9:00 p.m., 2:45 to 7:30 a.m. On Sundays from 7:00 to 8:30 p.m., and 2:45 to 7:30 a.m. Owned and operated by Catholic Broadcasting Co., Australia House, Wynyard Square, Sydney, New South Wales, Australia.

"Here also is authentic schedule of 4ZO as received from owner and operator of this station.

"4ZO Dunedin, New Zealand, 1080 keys, 250 watts. Daily except Saturdays and Sundays from 12:30 to 1:30 a.m. This schedule of 4ZO is given in the hours best suitable for reception in this country. It is in eastern standard time."

#### A Dependable Station

"On page 30 of your May RADEX I read: 'Has there been an increase in power for KFPM, Greenville, Texas?' asks John R. Carter, 1119 West 9th St., Erie, Pa. I picked them up this morning and they came in altogether too loud, it seemed to me, for 15 watts'. If you will permit me to answer that," replies Rudolph Kure, 3633 Vine St., Cincinnati, Ohio, "I would like to say I do not think that there has been any increase in power for KFPM. Their power output to the final amplifier stage in the transmitter is 30 watts, which, according to the Commission's method of figuring, means an output of 15 watts. Its output is excellently modulated, which means as much as more power. The New Orleans monitor station has recently

measured its frequency. The measurement was: 1310.048 kilocycles. Only 48 cycles off-high; one of the finest transmitters in the country, I believe. I heard KFPM as early as 8:15 p.m. EST, coming in nicely through that crowd of high-powered stations on only 15 watts of power. It is beyond me, cannot figure it out myself, yet it does it once in a while. According to my experience with KFPM I am therefore pretty sure that the 'too loud for a 15-watter' signal Mr. Carter has picked up was on only 15 watts. KFPM's signal strength on 15 watts compares well with many of the 100-watters."

#### Some Misinformation

Somebody got spoofed last month; was it RADEX or the Newark News Club? Says Daniel C. Looby, 5249 Oakland Street, Philadelphia: "On page 28 of the May issue you print a clipping from the Newark News stating there will probably be new stations in Tilton, N. H., Providence, R. I., etc. Some member must have procured an 'up-to-date' log about three years old and, seeing these stations listed, surmised that they were new stations. If you will look in a back issue of RADEX of about 1929, you will see these stations listed. They were on the air at one time but have been long deleted."

And to this Karl J. Halpern, 1435 Coney Island Ave., Brooklyn, N. Y., adds: "Louis Alexander, Jr., must have been reading a log which was some six years old. WBRL, Tifton, N. H., has been deleted some two years ago; WCOT was WPAW's old call; WINR was deleted during the reallocation of 1928; WMBL only had a license; WQBZ left left the air in 1929. He must have been looking at some very old clippings."

#### The U.S. Ground Again

Calls are still being received with reference to the U. S. Standard ground although the description of this ground has twice appeared in our pages. Now comes Edwin F. Dreher, P. O. Box C-1, Hayward, Calif., with the statement that the U. S. Bureau of Standards disclaims being the parent of this particular ground. In the Bureau's book, "Principles Underlying Radio Communica-

*Continued on page 28*

# "SINGIN' SAM" and Other STARS

Betty Introduces  
"Joe Palooka"

**J**UST a year ago an old trouper of minstrel days came to New York to make his network radio debut over Columbia as the feature of the Barbasol program. In that time the newcomer, Harry Frankel in real life, has become one of the headliners of the air as Singin' Sam, the Barbasol Man. In doing so he has shaken off a jinx which has pursued many of his fellows, for there are few "old timers" of the stage who have been able to adapt themselves to the technique of radio.

## Began as a Boy

Sam well qualifies as a theatrical veteran, for in 26 years of show business he has played in every state in the country, as well as widely through Canada. He was born in Danville, Ky., but moved at the age of eight to Richmond, Ind., where he grew up and where he first displayed his instincts for showmanship by acting in what he calls "kiddie shows." As a schoolboy he sang in a boys' quartet that entertained informally in Richmond. One day they were heard by a vaudeville actor who arranged bookings for them in Southern theatres during their summer vacation. This first professional appearance was disastrous, however, for they became stranded in a small town far from home and had to wire home for their return carfare.

During high school Sam decided to desert his texts and learn a trade. To that purpose he obtained a job in a piano factory, but he was destined for the footlights, and it was not long before he joined J. A. Coburn's Greater Minstrels, featured at 17 as the "boy basso."

In this engagement he was partnered with Frank Tinney, an outstanding figure in minstrelsy. Later he was featured as comedian with the Al G. Fields' Minstrels.

Besides his minstrel shows, Sam has performed extensively in vaudeville. For eight years he toured as a member

of a quartet, aptly named "The Big Four," as each member weighed more than 200 pounds. During this long association their harmony was not only musical, for they had but one fight, and that arose over a game of "Hearts." A later vaudeville series was "The Two Black Birds," of which he and Joe Dunlevy were co-creators.



Less than two years ago Sam made his radio debut over a Cincinnati station, when a friend asked him to go on the air to advertise his lawn-mower business. Success was immediate, and when the company found that it was getting more orders than it could fill, another sponsor readily engaged him to continue on the air. His local broadcasts attracted wide attention, and he set something of a record when he received 25,000 letters for a week's broadcasting in Cleveland. The Barbasol Company brought him to New York last July, after he offered but one song for them at his audition, and he has been delighting radio audiences ever since then with his informal programs of song. He has an intimate, homelike voice, which embodies a fortunate combination of depth, tone and feeling, and he ad libs all the announcements, which he makes himself.

Sam himself is a constant radio listener—and herein lies a large part of the secret of his success. He listens for his own enjoyment, but he does so also to

know what others are doing and what is going over with the public. "When in Rome, you have to shoot off Roman candles," he says, in regard to his radio success. He fully realizes the differences in technique between the stage and radio, and he has studied the new medium in order to adapt his offerings to its limitations. He sings largely the old-time songs, but insists on numbers of several different types on each program, with the idea of making each one appeal to at least one member of the family. Another of his theories is that a smile, provoked by a radio performer, is ten times as valuable as a laugh, which is a distraction, rather than a sign of satisfaction. One conversation with him about radio and you will know that his success is far from haphazard.

Side glances: He is typically a man of the outdoors and prefers the country to the city. . . . Is fond of all sports, both as spectator or participant. . . . In school he starred at football and basketball (then a new sport and popularly considered a game for girls). . . . Now he goes in for golf, hunting, and fishing. . . . With a friend, he owns a hunting lodge in Michigan. . . . His radio success has brought more vaudeville engagements, but he has discarded blackface to appear informally at a microphone, as he does in the WABC studios. . . . It has also brought him a contract to sing for phonograph records.

He spends little time in rehearsals, for he feels that over-rehearsal spoils the informality of the programs. . . . Only rehearses an unknown song, and then runs over it but once or twice with his pianist. . . . He transposes his songs at sight, for none are written in a key low enough for his voice. . . . He has never taken a music lesson, and cannot play the piano, despite his work in the piano factory. . . . His musical library, housed in a specially built trunk, contains thousands of numbers, and he makes up his programs without a duplication, except when specially requested, over a period of several months. . . . Most of his selections are based on requests. . . . He occasionally broadcasts a one-man minstrel show, in which he takes all parts, singing both baritone and bass. . . . Is

considered the leading exponent of the Bert Williams type of song, and he often includes such numbers on his programs, in response to the requests of many other old troupers.

Singin' Sam can be heard every Monday, Wednesday and Friday, at 8:15 p.m. EDST, over the Columbia network.

#### Those Stebbins Boys

Throughout the country household routines are adjusted so families may follow the simple adventures of Esley Stebbins (Arthur Allen) and John Stebbins (Parker Fennelly). John and Esley are the proprietors of a combined hotel and general merchandise store in Bucksport Point on the coast of Maine.

John and Esley Stebbins are bachelors. Neither has ever roamed far from the little Maine village, in contrast to the third brother, Captain Bill who is on the other side of the world as skipper of an old schooner. The boys are supposed to be in their late fifties and, as most bachelors of that age, somewhat fastidious and temperamental. They settled the problem of who should be boss by alternating. One day Esley gives the orders and John takes them, next day the order is reversed. The two men quarrel almost continuously, whether it be regarding their store, local politics



or the frequent love affairs of Virginia Pennypacker (Adelina Thomason) who tried vainly to marry each of the boys.

For fourteen years John and Esley did not speak to each other as a result of a misunderstanding. Finally, after many attempts to reconcile them, blustering brother Bill tricked John and Esley into a free-for-all fight in which they joined forces against him. In the heat of combat they forgot their long standing differences and became friends again. Then Bill, satisfied that all was well, sailed away on his vessel.

John and Esley possess contrasted temperaments. John is quiet, level-headed and patient. Esley is quarrelsome, sharp-tongued and sometimes guilty of acting without mature consideration. But in spite of their quarrels, the boys always pull together in emergencies.

The role of Esley is played by Arthur Allen, veteran character actor of stage and radio. He was born and spent his boyhood in Gowanda, N. Y. Turned to amateur theatricals at an early age. He attended Oberlin College, studied at a music conservatory and then joined a dramatic stock company. Later to Broadway, where he played character roles on the legitimate stage, and then transferred his activities from the footlights to the microphone at the instigation of the late Gerald Stopp, one of the leading directors of rural drama on the air. He has forsaken the stage completely, in favor of radio.

Allen's partner of the air is Parker Fennelly, who plays John Stebbins and is truly a Down-Easter. Fennelly was born on Mount Desert Island in Northeast Harbor, just off the coast of Maine near Bar Harbor. Now a summer resort, the island was for many generations a fishing center, populated by typical New Englanders. Fennelly grew up there, seeing little of the outside world until as he reached manhood he moved to Boston and attended a dramatic school. He began his professional career with a Shakespearian company and trouped with stock companies for fifteen years. He has appeared in plays with Nance O'Neill, Walter Huston, Roland Young, and others, whose names today are as

well known on stage and screen as his on the air.

The Stebbins boys are heard daily, except Saturday and Sunday, at 7:30 p.m. EDST, over the NBC-WJZ network.

#### Here is Jane Froman

Because radio programs reach such far away places Jane Froman felt she should sing as loudly as possible the first time she faced a microphone. Of course, she knows better now, but at the time she admits she did feel just a little bit silly—and frightened.

Her first radio opportunity came in



Cincinnati following a party in the home of Powell Crosley, Jr., who heard her sing and suggested she join the WLW staff. It was there that Paul Whiteman heard her and induced her to go to the NBC Chicago studios, where she made an instant hit on network programs.

Miss Froman, who is Ellen Jane to her family, is slender in build, has blue eyes and brown hair. She has that poise that most girls hope to attain, and she doesn't have any qualms about herself in event she's drafted for television programs. She doesn't have to.

Movies provide her with an enjoyable

relaxation. Swimming, horseback riding and driving are other diversions that rank equally in favor. Dogs and cats she likes and stoops to pet any that cross her path. But she won't walk under ladders and never fails to toss a good-sized handful of salt over her left shoulder when she knocks over the shaker.

Jane was born in St. Louis in 1907, attended the grade and high schools there, and graduated from the University of Missouri in 1928 with two degrees—an A.B. in music and a B.S. in journalism. She wanted to be a newspaper woman. While in college she was active in musical shows, sang in the glee club, university sextet and journalism school shows. Her first professional job was singing with an orchestra in the Grand Central theatre in St. Louis. That was when her desire to be a journalist wavered.

Miss Froman sings and heads her own orchestra on the Idont program on Sundays at 4:00 p.m. EDST, over an NBC-WEAF network.

#### And Joe Palooka

Ted Bergman, who portrays the big, dumb, but lovable Joe Palooka, has wrestled with life both on and off the stage ever since he played "Shylock" in grammar school and his beard was caught in the stage door. Ted came to radio drama after seeing life in alternate roles as an athlete and actor, scholar and seafarer, candy merchant and stage manager. He still can't get near a punching bag without "seeing red."

Ted was born on August 20, 1907, the son of a New York merchant. His adventurous theatrical roles as a youth were matched by vacation wanderings as a deckhand on transatlantic vessels. There he picked up a knowledge of characteristics which later were to stand him in good stead as a versatile actor. Later he joined a stock company. His first job took him to Oklahoma City, where he portrayed "Pierre of the Plains," in a house of melodrama. The adventure lasted three weeks and Ted came home. Appearances with the Provincetown Players followed. He later managed and directed productions of the Playwright's Theatre. He also toured



vaudeville with his cousin, Harry Green, the comedian.

Between theatricals, Ted managed to save his first \$2800 which was invested in a confection which he merchandized to the city's candy stands. Business was excellent until hot weather came, causing the sugar to crystal in the confections and bankrupting Ted.

Again he took to the road in stock companies, touring with "What Price Glory," "Road to Rome," and others. Times became slack and during the lull Ted put his big bulk to work as physical instructor and manager of a Manhattan gym club. There he taught S. L. (Roxy) Rothafel how to play handball, etc.

Ted came to the Columbia network in early detective thrillers. Here he met Frank Readick 130-pound actor, who today plays the part of Knobby Walsh, diminutive and wise-cracking manager of Joe Palooka. They swapped stories over the luncheon table, became room-mates and teamed in many radio acts together. Their bachelor partnership ended recently, when Ted met Finette Walker, concert soprano, in the CBS television studio, and won her as an April bride.

Ted weighs 200 pounds and looks like a prize fighter. His hobby outside the

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# The TECHNICAL Editor ADVISES

## Separating Crowded Stations

*I have purchased a second-hand Majestic 70-A receiver, but I found that the 550 kilocycle stations came in at 74 on the dial instead of at 100, and the 1400 k. c. stations at zero. I then turned the plates of the tuning condensers on the shaft so the 550 k. c. stations would come in at 94 and the 1500 k. c. stations at 9. The high frequency stations are still crowded. How can I spread them out for better selectivity?*

It is natural for stations to appear crowded down in the lower wave lengths. Until someone invents a compensating tuning coil and condenser arrangement which will spread stations over the entire wave-band, radio will continue to suffer from this trouble. If a change is made so that the stations between 1000 and 1500 kilocycles are separated more, there will be a loss of stations at the high end of the dial, or between about 650 and 550 kilocycles.

Try removing about six turns of wire from the secondaries of each of the radio-frequency transformers. Then connect a small adjustable trimming condenser across each tuning condenser. The capacity should be about 30 to 50 mmfds. Adjust each of these new condensers so that a 1500 k. c. station will come in at zero on the tuning dial. Then rebalance the permanent trimming condensers for selective tuning but not touching the newly placed condensers. This will increase the spreading of congested stations, but will have little or no effect on stations below 1000 kilocycles.

## All-Wave Set Gives Trouble

*My Lincoln all-wave receiver sw-31 does not give satisfaction; the broadcast end works perfectly, but I can get only a few amateur and coastal code stations on the short-wave end. I have been disappointed because I thought I would get the foreign short-wave stations too.*

The fact that the broadcast end works perfectly indicates that none of the trouble can be due to that portion of the set, and will most likely be found in the short-wave converter circuits. Check

## Problems in Set Operation

the tubes and all connections, especially those leading to the first tube of the broadcast receiver. These output wires from the converter must be short and well separated from other wiring. Use a good aerial, and try disconnecting the ground wire for short-wave reception. A small fixed condenser in series with the aerial might be of benefit.

Short-wave tuning is quite a problem; it calls for much slow manipulation of the dials and patience. The stations will be found to be very sharp in location. We regret that we have no comparative data in regard to the performance of this particular set, and therefore cannot say just what you should expect from foreign reception.

## A Mysterious Control on Majestic

*What is the third control on my Majestic; it resembles a dash-pot? This set tends to sputter when stations from 1060*



*Here's Joe Palooka's sweetheart, Ann Howe! Columbia, Tuesdays and Thursdays, 6:45 p.m., EDT.*

*to 1500 kilocycles are tuned in, but if I increase the volume the noise stops except above 1200 kilocycles, and above that only by working the unknown third control on this set.*

The sputtering you complain of seems rather unusual, and may be traced to undesirable stray capacities coupling with the antenna coil. The third control is an antenna compensator for the purpose of compensating for the varying effects of different frequencies in the antenna circuit. Your problem seems to limit itself to a local one affecting the antenna coil. When the volume control is at full strength the coil is not so free to pick up strays as it is when minimum volume is indicated. It may be that the electrical constants of the antenna coil and tuning characteristics of this receiver may account for the introduction of noise above 1200 kilocycles. Examine the aerial and ground for perfect connections and proximity to other electrical circuits which may produce some of this interference.

#### Set Chokes Up

*My set will be playing nicely when all at once it will pop or crackle and then choke up. You can hear the music faintly, but in a minute or two it will let go and the music will come back with full volume. But by turning up the volume control the trouble ceases, for the trouble comes oftener when the volume is turned down. On faint stations where more volume is needed, the trouble is not so marked.*

If your set is a. c. operated a filter or power supply condenser will sometimes develop intermittent punctures or corona discharges within, causing sharp voltage fluctuations of the power supply and a temporary reduced average voltage. If you have a high d. c. voltage test made, the defective condenser will be disclosed, and should be replaced. A slider on a wire-wound volume control will very often cause this trouble. It may be remedied by applying a small bit of pure white vaseline along the resistance over which the slider passes. Carbon type volume control resistors become packed and are subject to variations in resistance and noises; they must then be replaced by new ones. If there is a lack

or failure of the audio frequency grid bias voltage, such choking will be noticed. In d. c. or battery sets this latter is a frequent cause, as well as irregularities in the A battery voltage.

#### Noisy After Warming Up

*As soon as I turn on my Silvertone set it begins to crackle, but after getting warmed it then seems to make scratching noises when the volume control is on. If I jar the cabinet the noise is also heard.*

This appears to be some loose connection. A tube may not fit snugly into its socket, or be defective within. When a set or tube gets warmed up the loose parts expand and cause much noise. A defective volume control will be noisy, and suggestions for this trouble will be found in the foregoing question and answer. Disconnect the aerial and ground to see whether the noise persists with volume on full and shaking or jarring the cabinet. If not, the aerial and ground should be carefully examined for looseness and foreign contacts.

#### Voltage Regulator

*I am anxious to procure a good voltage regulator that will build subnormal voltages up to normal as well as keep abnormal voltages down to the proper level. I am told that regulators are simply fixed resistances for holding high voltages down, but I wish to keep low voltages up since I understand they prevent good radio reception.*

Voltage regulators cannot "step up" low voltages to normal levels. Only a transformer can do that. Regulators will prevent too high voltages from entering the receiver by choking the potential down to a steady and fixed amount. When the voltage drops too far the regulator must go to the same level. Try a ballast tube in the a. c. line to your set as it will tend to steady the fluctuations in the power supply. These are sold by type number -76.

#### Set Whistles on Higher Frequencies

*My Atwater Kent 55 receiver brings in stations with nice volume between 1000 and 1500 kilocycles, but as soon as I try to increase the volume the set has a peculiar whistling sound and I sometimes cannot even hear the station. Stations that come*



*in from 550 to 1000 kilocycles do not whistle when the volume is turned up too high. How can I correct this annoyance?*

Excessive screen-grid voltages on types -24 and -35 tubes will break into self-oscillation at times. Volume is controlled on this set by means of the screen-grid voltage, and indicates the cause of the trouble. We suggest that you connect a 50,000 ohm resistor from the common screen terminal of the tubes to ground to act as a bleeder, and this should reduce the maximum screen-grid voltage sufficiently to stop the whistling. A 10,000 ohm series resistor in the common screen lead might also remedy the trouble.

Stations are considerably crowded in the frequency limits you mention and there is always present much local heterodyning which tends to cause whistling and mushy sounding broadcasts. If this is your trouble there is little likelihood of obtaining relief within the receiver.

#### **Mixing Tubes**

*I would like to know whether I can use the -32 two-volt tube in my Pilot Super-Wasp receiver instead of the -22 I am now using with the -30 types.*

We do not see how you are connecting a -22 screen grid 6-volt tube in with additional -30 2-volt tubes in your set, unless it is wired especially for that purpose. Certainly you can, and should, use the -32 screen-grid two-volt tube in connection with other two-volt tubes of the -30 type. Approximately the same B battery and C grid bias is used. We assume, however, that your set is d. c. or battery operated, and you will use the Air-Cell or equivalent battery on the filaments of the -30 series tubes.

#### **Locating Tubes in Radiola 60**

*Having purchased a converter to use with my Radiola 60 superheterodyne receiver I find from the instructions that the first radio-frequency tube and first detector tubes must be located. Can you assist me?*

Looking down on the set from the front the row of tubes reads, from left to right: audio frequency -71A, second detector -27, oscillator -27, second intermediate frequency -27, first intermediate

frequency -27, first detector -27, and second radio frequency -27. At the right, in a separate group, the line tube in front is the first radio-frequency -27.

Not knowing the type of converter you propose to use, we cannot give much advice. However, most converters connect directly to the antenna and ground connections on the chassis of the superheterodyne receiver and it is not necessary to know the different tubes. In your case be careful in making connections that plate voltages do not conflict and cause serious damage within the set.

#### **Microphone with Philco 70**

*I have connected a microphone to my Philco 70 receiver, but after removing a cap from the top of a tube and connecting*



*This is Myrt's lawyer, "Jack Arnold," otherwise Vinton Harworth, leading man for Myrt and Marge, Columbia feature.*

*the mike the set hums and the microphone does not work. What is the best way to make the connection?*

The hum was caused when you broke the grid connection to the tube. Replace the connection cap and remove the microphone. In the first place a microphone cannot be used without an output audio frequency transformer. Procure

one and connect the microphone in series with the primary winding with about two dry cells to provide the exciting voltage that is necessary. The two wires leading from the secondary of the a. f. transformer should be connected to the grid of the -47 pentode tube after the existing connection is removed or opened electrically, and to the ground. A C bias from a temporary 22½ volt C battery may be necessary.

#### Battery Operated Short Wave Converter

*My radio set is a R. C. A. Victor R-43 and is operated on the 2-volt Air-Cell battery. Can I use a short-wave converter on this set, and what is the best one to purchase for the purpose?*

Most of the best short-wave converters for use in connection with superheterodyne receivers are a. c. operated, and we are not familiar with suitable devices for battery operation. So, in this connection, we suggest you correspond with some of the well-known makers, listed in a recent issue of RADEX, or write to the Pilot Manufacturing Company, Lawrence, Mass., who specialize in short-wave work. It may be they can easily rebuild an a. c. converter for use with 2-volt tubes at no extra cost to you. The converter can be used with your set and should give good results for the usual a. c. noise that is present in the superheterodyne and converter is ab-

sent. Short wave reception on battery sets is far and away the best.

#### Realigning Tuning Condensers of Receiver

*I bought a General Electric model H-31 receiver second-hand but it was out of alignment. When I turn in small set screws in the plates of small adjustments beside the large tuning condensers it brings in different stations. How can I make the proper adjustments and get all the stations I should be hearing?*

The gang condenser in this set has four large tuning units on a shaft, and connected across each is a tiny compensating or trimming condenser for adjusting critically the irregularities in the large condensers. If possible tune your set to a station that is broadcasting on 1500 kilocycles so that the dial can be set at zero or 1500 depending upon the scale used. In this case the rotor plates of the gang condenser should be out as far as possible. With a wooden stick shaped like a screw-driver turn the adjusting screws in the trimmer condensers until the faint distant station being heard comes in loudest, and its tuning is sharp and selective. Turn the condensers full way in and tune to another station around 500 k. c. if possible. The dial should read 100 or almost 550 according to the scale. Readjust the trimmers for the final test.

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Write Name Plainly.....

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# FINAL MEETING of the DXERS

**B**EFORE this Department goes into moth-balls for the summer, we will look over some of the last-minute reports. Then we will begin to get ready for a bigger and better season next fall. With the improvement in sets and tubes and the introduction of all wave receivers and short-wave converters, the next season ought to be a corker. Let us have some of your best records of the summer for the September issue which, bear in mind, goes to press on August 5th.

And remember our new short wave department and send in some good chatty letters about your experiences in the high frequencies.

## From Two Tubes to Eleven

"I've been playing around with radio about eight years (off and on) and while I haven't set the world on fire by catching all stations on the air, I have managed to log 385 stations to date," reports A. O. Young, Box 506 Heights Station, Houston, Texas. "I hunted DX with a two-tube, home-made, three-circuit receiver from 1925 to 1927. With said receiver I logged 225 stations in that time. CNRV, at Vancouver, was my best catch on that receiver. Until about six months ago I practically quit listening to anything but local programs. I was away from home so much that I did not have time to do any radioing. However, at that time I regained my interest and bought a Midwest 11-tube superheterodyne. My best catches with it have been KPCB, KGCX, KXRO and KFXD. I was able to verify all of those except KXRO. I have not confined all of my time to the broadcast band or I might have had a larger log and more verifications. In the past six months I have passed the amateur examination and put my own amateur station on the air under the call of W5BDI. The real fun in hunting DX is when you can talk to the party on the other end."

## From Newfoundland

"I have stations in nearly every state of the U. S. A., California, New Mexico, Texas, Kansas, and everything worth-

## Last Reports for the Summer

while in the central and eastern states, also Cuba and Mexico. I also received regularly during the past winter four stations in England, two in France, one in Germany and one in Rome," reports A. L. Hynes, Clarendville, Newfoundland. "I don't know if any readers can better a list all the way from California to Italy. I think that about all the stations, I get, except two or three locals, some readers would call DX stations, if they had to cover the distance I have to get them in. I have a perfect locality for radio. The nearest receiver or electric power of any kind is a half mile from me. I use a 2-volt battery set (superheterodyne) and nothing to interfere except static."

## Gets Moose Jaw in St. Louis

"In reply to Mr. J. J. Barlow, Berkeley, Calif.," writes R. E. Von Doersten,



*A former newspaper reporter, Jean Sargeant is now a star herself. With Ziegfeld on the Columbia, Sundays at 10:30 p.m., EDST.*

5431 Goethe Ave., St. Louis, Mo., "I also have an Apex 6-tube and rectifier neurodyne set, which I purchased about three years ago, and it also tunes quite broad. But despite this trouble, I have managed to log 347 stations, including 33 west coast; a 100-watt in Washington; KGU, Honolulu; VAS, Nova Scotia; WKAQ, Porto Rico; 10AB, Moose Jaw; a 25-watt, from which I have verifications, besides I have logged 13 other Canadians, 7 Cubans and 17 Mexicans, which I think is a pretty good record for this type set."

#### Some Good Reports

"I've received another Australian since my last letter," reports Earl R. Roberts, 712 South 9th St., Cambridge, Ohio. "It's 2FC, Sydney, on exactly 665 kcs. On the morning of February 15th, static was hardly noticeable and I could tune in 4QG on 765 at any time from 5:15 to 6:30 a.m. My verification from RUS finally came after waiting ten weeks. A card from KZRM, Manila, state they use 50 kw. not 1000 watts. Last Tuesday I logged KDFN, completing my 48 states. I got them on a ten-minute frequency check. Is there a German station that broadcasts on exactly 854 or 855 kcs.? At 4:15 this a.m. I had a station with a fairly good signal."

"I have been DXing for eight years," writes W. J. Ray, 5811 College Ave., Oakland, Calif. "Up until last summer I used a one-tube job of my own build. To date I have logged 103 station on it. The set I use the most now is a Model 62, 6-tube Jackson-Bell midget. My total log to date is 172 stations, with six unidentified. I have 80 stations verified. Here's how it runs: 166 stations, on 87 channels, in 32 states, from 7 countries, and with 29 foreign stations. This is through 17 locals. The foreigners include 10 in Japan, one in Australia, 9 in Canada, 6 in Mexico, 2 in Hawaii, and on in Haiti."

#### DXing in Hawaii

"Greetings from Hawaii," writes Miss Goldie Charlock, P. O. Box 804, Hilo, Hawaii. "I have been a steady reader of RADEX for the past six months and find it a great help in my DXing. I have a log of 141 stations, with 74 of them verified.

I own a Model 50 RCA receiver and use a copper plate, buried in the ground about four feet, for my ground. My antenna is about 100 feet long and 50 feet high, running north and south. For the benefit of those interested, KGU and KGMB are on the air every day until 11 p.m. Hawaiian time."

"Five weeks ago I purchased a 5-tube Echophone (Marconi) and in that space of time have logged 180 stations in every part of the country, California, Oregon, Mexico, Cuba, etc.," reports K. P., Williamson, 1610 Sherbrooke St., West, Montreal, Que., Can. "My best catch is CMAB, Pinar Del Rio, Cuba, a 20-watt. Following a suggestion given in your April issue, I have been operating with just a ground wire attached to my aerial post and have had remarkable results."

"My log up to date is 400 stations, which I logged in the past two years," writes Fred Wageman, 6141 Logan Ave., Havelock, Neb. "My radio is a 9-tube Sparton. My best and longest catch is Ketchikan, Alaska, and I have fifty 50-watters, of which the two best are Vancouver and Birmingham, Ala. I have 42 states and every frequency but one. My aerial is 410 feet long and I have three grounds, one a well pipe 42 feet deep."

#### New Zealand in North Dakota

"To date I have received 482 stations, having verifications from 50-watt stations from Cuba to Vancouver, B. C.," reports Trygre Njaa, Box 67, Hillsboro, No. Dak. "I DX with a one-tube and have been using it since January 2, 1931. It is very sensitive and have received 2YA, New Zealand, with it. I was the most distant listener on two broadcasts from WHBC, the 10-watt station of Canton, Ohio. These DX broadcasts were on March 7th and 25th, 1932."

"Since December 12th, when I bought a ten-tube Crosley 'Tenstrike,' I have received 181 stations," writes Wilson Forbes, 100 Ashley Road, Santa Barbara, Calif. "My radio has wonderful selectivity. I can tune in WSM, Nashville, on 650 kcs., with little trace of KFI on 640 kcs. and only 90 miles away. I have also received CMK when XER was on the

air; also WSB. During the winter JOIK and JOHK came in with good volume."

### A Bunch of Reports

Says Sidney Fuller, 1600 Queen St., West, Toronto, Ont.: "I haven't had much chance at DXing so that so far I have only 171 stations. In the last week I got three stations below the 1500 band—two of these are police, WRDS and WKDT, but the last is an experimental station with two calls, W3XK and W3XJ. Can anyone give me the location of the last named?" These calls are assigned to the Jenkins Laboratories at Silver Springs, Maryland.

"Well, my list is climbing upward," reports Joseph H. Ronzone, 1847 Narragansett Ave., Bronx Heights, N. Y. "I have now logged 347 stations, which include 83 of 100 watts power and under, 12 West Coast stations, 43 states, 10 stations in Mexico, and 19 stations in Cuba. Practically all stations are verified to date, that is, with the exception of stations within a radius of 50 miles from my home."

"My log now consists of 293 stations in nine months of DXing," writes R. C. Heyd, 1244 East 146th St., East Cleveland, Ohio. "These have been brought in over a loudspeaker with a Radiotrope 9-tube Neutrodyne set (no pentode tubes either). My log includes 22 Canadian, 5 Cuban, 11 Mexican, and 15 California stations. I recently caught CHGS, Summerside, P. E. I., which is a 100-watter."

"We have an old Radiola 18 which our dealer said might bring in 75 stations, but which has brought in 170 to date. This includes JOGK, CMK, CFCN, WTIC, and four New York stations. We would like to hear from anyone with a similar set who has been getting as good or better results." This is the report of Frank W. Edlin and R. R. Miller, The Deane School, Santa Barbara, Calif.

"I am now using a Philco Model 90, and am having a great time DXing with a good set," comments John J. Barlow, 2803 Woolsey St., Berkeley, Calif. "Here are my records: I have had my new Philco exactly four weeks and have only once DXed in the arly morning. I have a total of 138 stations; 4 of these

are in Canada, 5 in Japan, and 6 in Mexico; the rest are from 34 states."

Frank Wheeler, 406 Eagle Point, Lakeside, Erie, Pa., now has a total of 354 stations including several Cubans, Mexicans and VAS. He quotes time on the air for CHGS, P. E. I., as follows: Daily, 10 a.m. to 2 p.m. and 3:45 to 9 p.m.; Sundays 11 a.m. to 12:15 p.m. and 2:30 p.m. to 8:15 p.m, Special DX 2:30 a.m. to 3:30 a.m. the first Sunday morning of each month. All time given in Eastern Daylight.

"Five weeks ago I got a Crosley five-tube 'Litfella' and using the set in Jacksonville, Florida, I have logged 175 stations," reports George H. Baldwin, Jr., of the Taft School, Watertown, Conn.



"A small town boy who made good in the city," Don Ameche, of Kenosha, Wis., "Beau Bachelior," on the Columbia, Fridays, 10 p.m., EDST.

"I brought in the ten-watter WNBW, Carbondale, Pa., twice at about 3:00 a.m. KELW, 500 watts, Burbank, Calif., comes in well any night after 11:00 p.m. I have at least one station on every one of the bands."

"My trans-Pacific record reads: All Japanese on long wave but two, with JOAK coming in twice; KERM, Manila, P. I.; KGU and KGMB, in Honolulu; 2XA in New Zealand; 2AR, 4QG and

3LO in Australia," reports R. M. Ballard, Visolia, Calif. "My set is a Majestic Model 52."

"Using a 9-tube Atwater Kent super-heterodyne, I have logged 502 stations since November 18, 1931. Have 14 verifications over 2000 miles; TJW, 7.5 watts, two 10-watters, 15 50-watters and 113 100-watters, every state except Wyoming and Nevada," comments Chester W. Sinclair, 8 Swan St., Beverly, Mass.

#### 76 on the Short Waves

"In about four months, with a Philco 9-tube Baby Grand, I have pulled in 350 stations, DXing just Saturday and Sunday mornings," says J. Kenneth Loudon, P. O. Box 523, Orangeville, Ont. "For one week I had a Philco short-wave hooked up with the receiver, and with the combination pulled in 76 short-wave stations."

"My log to date consists of 610 stations, verified specifically by card or letter," writes S. R. Lewis, Rt. 3, Box 688-A, Toledo, Ohio. "77 of these are west coast stations. About 250 are 100 watts or less. I have 26 states completely verified. I have every state, with some stations verified, and every province in Canada."

"I often read of the number of stations some fans secure and from some of them I feel that my record is not bad, although I am after more. Since Christmas last I tuned in 186 stations. My best catch so far is KPCB, a 100-watter at Seattle," says L. J. Schilling, 2717 DeKalb St., St. Louis, Mo.

"I am a Dx fan of five years' standing," reports Frank Garton, Ridgetown, Ont., "and in the last three I have logged 613 stations." Mr. Garton urges readers to go after 10AB, Moose Jaw, Sask., which is officially listed at 1200 keys., but uses 1190 on DX and may be found anywhere between these two channels.

"My log is now at 358 but if I added the results of the family radio, I would have over 500," comments George B. Holland, Jr., 1340 Baker Ave., Schenectady, N. Y. "KFOX comes in great at 6:00 a.m. KGPL, the Los Angeles police station, 500 watts on 1712, comes in good until 6:30 in the morning."

"I now have 312 stations with 165 verifications including XEN, XEW, CMX and many Canadian and West Coast," reports James N. Adams, 1118 W. Illinois St., Urbana, Ill. "My DXing is limited to vacations as I am attending the University of Illinois here in Urbana."

Jos. Nuszowski, 2319 South Sacramento Ave., Chicago, Ill., sends us his log of 306 stations from 39 states and five foreign countries. His goal is 500 stations. This is mighty fine work for Chicago with all the locals they have going in that town. Joseph has a Kennedy 8-tube set and uses 150 feet of inside antenna.

"Perhaps you might be interested in my list of stations obtained on a one-tube (peanut) set which I built myself," suggests Bill McPherson, 134 Murray St., Peterborough, Ont. "I have received 82 stations, which includes eight amateur and five police stations. It isn't much, but serves as a foundation to build on."

#### Getting East in the West

"I've noticed listings of West Coast 100-watters received by listeners on the East Coast," says Stanley Savage, Route 4, Spokane, Wash. "I've logged a few East Coast 100-watters. The best one is WMBR, Tampa, Fla., received two weeks ago. Also WJTL, Atlanta, Ga.; WKBC, Birmingham, Ala.; WLBX, New York, and CMBG in Havana, 150 watts."

"I have a 5-tube battery set, Atwater Kent Model 20, and have logged 338 stations," says Joseph Walters, Highland Park, Tenn. "I listened to XED one morning from 7 to 8 CST, and to KFI at 7:45 p.m. CST."

"I operate an 11-tube Philco super-heterodyne and have succeeded in pulling in a total of 230 stations so far and going strong for more," says H. A. Hefflefinger, 44 Parker St., Carlisle, Pa. Mr. Hefflefinger would like to hear from some of the DXers.

"I have a log of 512 stations, including 22 on the Pacific coast, 13 in Mexico, 18 in Cuba and 32 in Canada, along with HHK and WKAQ. Not so bad, not so good?" says H. R. Hosking, 181 No. 17th St., East Orange, N. J.

This report comes from Walter W.

Oschmann, 838 Willow St., Scranton, Pa.: "I own an 8-tube Lafayette and have had it just one year; have logged 378 stations with all doubtful ones verified. Some of my best are KFXD, CMBR, XEG, KRMD and KFVD."

Edwin F. Dreher, P. O. Box C-1, Hayward, Calif., expects to move to San Diego next Autumn and is anxious to hear from DXers in that city as to radio conditions there. Will some of our readers in San Diego communicate with Mr. Dreher?

F. Martyn, 695 Nassau St., Winnipeg, Man., has a total of 300 stations with 115 verified including six from Europe, all on a b. c. receiver.

### Some DX Tips

A tip and a query from R. V. Heinzelmann, 880 Grosvenor Ave., Winnipeg, Man.: "Station WEXL says they are on Sunday nights, midnight to 2:00 a.m. EST. Address letters to Harvey Morrison, Pastor of the Tabernacle, Hazel Park, Royal Oak, Mich. Can you help me with this one? On Wednesday, March 23, between 11:00 and 11:30 p.m. CST, I heard a station on 1220 broadcasting code signals. Every little while this would stop and a man would make a little speech. Once he spelled something. I think he was giving lessons in Morse code. Although it was quite loud, I couldn't hear what he said because of WREN."

"Well here's a little dope," reports John M. Lennon, 122 Linden St., Camden, N. J. "According to a verification sent to me by WOPI they will broadcast their next DX program on June 15, 1932, from 2 to 6 a.m. EST. They said they had been received as far as British Columbia. Has anyone received a verification from WFAB, New York? I have not received any reply to my letter yet. CKNC, Toronto, is on from 8 a.m. to 11:15 p.m., EST, daily. WINS, New York, may be heard at 6:45 a.m., EST, by the early birds."

### Santo Domingo and South Africa

"Here's a bit of information from station HIX, Santo Domingo," informs Chas. A. Perdicaro, 75 Berry St., Brooklyn, N. Y. They broadcast on 475 meters, power 1 kw., regular concerts on Tues-

days and Fridays, from 8:10 p.m. EST. WFAB operates from 12 to 3 p.m. daily; returns to the air at 9 p.m., except Fridays and Sundays. Polish hour, 12 to 1 p.m.; Jewish, 1-2 p.m.; German, 2-3 p.m."

"Here's an official schedule of a real DX station: ZTD, Durban, South Africa, 731 kcys., 1500 watts: Daily from 5:30 7:30 a.m.; 9-10:45 a.m., and 12-3 p.m., EST." reports Ralph H. Schiller, Transcontinental DX Club, Hawthorne, N. J. "One of our members has tuned in ZTD and received verification from them, and schedule as listed is from the letter they sent."

"In the May issue, Miss M. Stannard asked where the 'Four Horsemen' were coming from," says Mrs. Robert McGrath, 14488 Faircrest St., Detroit. "They are a daily feature known as the 'Sunshine Express' from WXYZ, 1240 kcs., Detroit. Their time is 5 p.m. EST. They are not on a network." Mrs. McGrath adds: "My husband is a DXer, having logged over 300 stations in the year and a half we have had our Majestic Superheterodyne No. 52 and a Philco short-wave converter. May 1st at 4:15 EST, we had a station at 13,300 kcs. whose program was in German, and we understood the call letters to be DIQ. Can any other readers identify this for us?" While the letter D is assigned to Germany, few if any of the German stations use their call letters but only the name of the city. We do not find any stations in that country with a frequency as high as 13,000, but perhaps some of our DXers can identify it. Mrs. McGrath does not state whether this station was received in the a.m. or p.m.

### Another German

"At 1:45 p.m. EDST, Thursday, April 28th, I heard a station broadcasting on (or near) 8800 kcys. (in 30 m. band)," reports Chester B. Lovering, Jr., Box 304, Duxbury, Mass. "The announcer at first was a woman speaking German. Then, at 1:50 p.m. a man spoke for a few minutes in German also. A friend who speaks some German, translated the following: '— perfect if it were not so noisy.' Following that, I made out the German equivalent of 'frequency.' Final-



ly, with 'Auf Wiedersein,' the carrier was turned off. Time 1:55 p.m. EDST. Can you help me in locating the station call, positive, frequency (exact), and operating hours? The set I used at the time was a new '32 Pilot Dragon 6-tube super-het. Antenna 60 feet."

#### What Jap was This?

"In this afternoon's mail I received one of my verifications from Japan, JOCK, in Nagoya, pronounced Chuo-Hoso Kyoku, according to the verification. The station is owned by the Nagoya Central Broadcasting Company," reports Glenn Anderson, 5640 So. Jay St., Tacoma, Wash. "On March 26th I received another Japanese station. This one was coming in fine on 800 kcys. I listened to their program from 1:15 a.m. until 1:50 a.m. PST. All they did was talk. According to the April RADEX there is no such Japanese station. I would like to know what this station is."

#### And One from Mexico

"I wonder whether you could identify a station for me," inquires Harold S. Rubens, 235 Atlantic Ave., Winnipeg, Man. "On the morning of February 7, 1932, on 630 kcys., at 1:45 CST I picked up a program which ran as follows: A woman was singing in what seemed to be Mexican, accompanied by a piano. Then the announcer spelled out a word, part of which seemed to be d-i-e-n-s-t. Then mentioned the word in English, 'everybody.' Then made an announcement in Mexican, then signed off at 1:50 a.m. I thought it might be XETF, but they sent me a card saying they signed off at 11 p.m. CST. So please, who was it?"

"For the last four Sundays I've been listening to a very weak station on or about 1280 kcys., with a program from the Silver Slipper Cafe, also mentioned 110 Market Street. Listened from 3:13 a.m. EST, April 3rd, till 3:55 a.m., when they signed off. Can you give me any help in identifying this station?" asks John C. Streiter, 66 Montague Place, Montclair, N. J.

"At 3 a.m. EST Wednesday, April 13th, I received a station announced as WLAC, Louisville, Ky., operating on 1010 kcys., by authority of the Federal Radio Commission," reports Edward L.

Walters, 3325 Grove St., Roanoke, Va. "WLAC is supposed to be in Nashville, Tenn., and operate on 1470 kcys. How did this station get the same call letters?"

"Here's a cry for help," SOS's John M. Lennon, 122 Linden St., Camden, N. J. "Can anyone tell me what station I heard on Sunday, May 1, 1932, at about 6:07 a.m. EDST, playing 'Drifting and Dreaming,' on 845 or 850 kcys.? Thanks. RADEX is getting better (if it's possible) with every issue."

"This morning about 10:30," writes Harvey Reid, 371 Willard Ave., Toronto, Ont., "I received 3AB, Toronto, testing on a wave length of about 1190 kcys. I was told it is an amateur phone station, but I thought they only used short-waves? Could you tell me its owner, power and where the owner lives?"

Who can tell us whether KGEF, 1300 kcs., Los Angeles and KGMP, 1210 kcs., Elk City, Okla., are still on the air or not? Another question, do WENR and WLS use the same transmitter?

"Auf Wiederseh'n, my dear."

## With the Editor

*Continued from page 14*

tion," methods of making ground connections are described and it may be this ground was thus given. Be that as it may, many readers of this magazine have installed this ground with most satisfactory results and the description is given again in answer to many requests: Dig a hole in the ground one foot deep and one foot square, away from all buried pipes; place in that hole five pounds of rock salt; turn a hose on it until it dissolves; drive an eight-foot rod or pipe through the center of the hole. In sections where there is little moisture in the earth, use four of these grounds six feet apart and connect all together.

#### Some Answers to Queries

"Eugene Martin is correct about the difference in power of WBAP and WFAA," confirms W. B. Payne, 511 N. 28th St., Richmond, Va. "I have checked his statement of changeover and strength of signals. . . If W. B. Brown, of Washington, D. C., will write to XED and address his letters to Sta-

tion XED, International Broadcasting Co., American Office, Hidalgo, Texas, I am sure he will receive a reply. . . . As American stations do not announce in Spanish, F. Rouse of Albany, ought not to expect Mexican and Cubans to announce in English. . . . Two or three months ago an NBC program was broadcast from WSM—a Saturday night barn-dance. Perhaps it was this program Mr. Rouse heard and hence the announcement of WSM on 1070 and 1460. . . . D. G. Powers probably picked up WRUF on 820 or CKGW on 840, for I heard CKGW with a Columbia program in either February or March.”

#### Offers Help with WODA

“About WODA—there is something queer there,” comments Roy Cattell, R. F. D. 2, Paterson, N. J. “Everybody connected with the station is very nice and they have never failed to fill out verification requests for me. If any of your large body of readers need a WODA verification, tell him to send the most recent data he can get together with return postage or ten cents for a stamp to me and I will be pleased to help anyone I can. I just recently received verification from KGFL, KGIX and JOBK and 10AB in Moose Jaw. JOBK is my fourth Jap verie—two are out yet. Every state verified now. It is said that WHEB in New Hampshire will come on about June 15th. I have found that in summer it is possible to get stations verified easily that were consistent hold-outs in winter. One reason is the greatly reduced mail which gives the clerical force more time for answering.”

“Having received a total of 451 stations, including 3 South American, 23 Cuban, 15 Mexican, 1 Porto Rican, and 1 Hawaiian, I feel entitled to express my views concerning the aerial problem of radio reception,” writes Frank E. Switalski, 2819 Victoria Ave., Cincinnati, Ohio. “I find that my 5-tube Webber midget works best without a ground and with an indoor aerial. The latter consists of shielded-insulated wire running 35 feet across the attic. The wire runs directly to the aerial post and has no splices. The shielding is ungrounded and does not touch the aerial. This

hookup gives plenty of volume with less static, and it separates the stations considerably. With a 100-foot outside aerial, the set has more volume, but the separation is poor and static is terrific.”

#### Defends CMCY

“I note in the DX department of April RADEX (DXers Bible) that Mr. P. E. Donnelly, of Los Angeles, warns readers of RADEX not to send reception reports to CMCY, Havana, Cuba,” writes Murray C. Hanlan, 212 Bird Lane, Clarksburg, W. Va., “I am sure that Mr. Donnelly is mistaken in this, I reported the program named by Mr. Donnelly and received a very nice personal letter of verification from the station’s owner, Mr. M. D. Autran, Calle G. No. 215, Vedado, Havana, Cuba. I am sure Mr. Autran will send a verification to all who send in correct reports of reception of CMCY.”

“The only station in this country which has failed to verify for me, even when postage was sent, is KGHL, at Billings, Mont.,” states F. L. Pendell, 321 Schenectady St., Schenectady, N. Y. “I find some stations are very slow in answering, some taking more than a month to reply, but I think if the DXer will exercise as much patience in waiting for replies as he does in angling for distant programs, he will finally be rewarded by receiving the desired verifications. I note particularly on early morning and special DX programs, verifications are much slower in coming due, undoubtedly to the great numbers who receive these special tests.”

“How’s this for selectivity?” asks Harold M. Wheeler, 410 Marston Ave., Madison, Wis. “I use a Philco Model 112 (11 tubes). I pick up CKAC, Montreal, XER, Villa Acuna, and WSB, Atlanta, all five kilocycles apart every night. But better yet KFI, Los Angeles, 640 kcys., CKCR, Waterloo, Ont., 645 kcys., and KPCB, Seattle, 650 kcys., at the same time, and have verifications from all three. The latter two use only 100 watts.”

“Radio is a funny thing, as we all know,” comments Karl B. Huben, 936 Phoenix St., St. Haven, Mich., “I have had 535 stations, still it took me all

winter to bring in a 1000-watt on the coast, namely, KFAC, the Auburn distributor's station at Los Angeles. Many 500 and 1000-watt stations in Oregon and Washington simply cannot be brought in, at least by me, and yet KPCB at Seattle, at times, comes in like it was shooting with at least 5000 watts. Well, that's DXing, and just what makes it so much fun, just the same uncertainty which makes baseball our national pastime."

## Aerials and Grounds

*Continued from page 3*

congested city locations and about 75 feet in the open or rural sections. Lengths up to 150 feet are not recommended for a single receiver. The antenna should swing clear of the roof by not less than 10 feet. These lengths will be found also adequate for short wave reception." The Jenkins Laboratory, a leader in the field of television, stated: "An antenna from 70 to 100 feet in length is sufficient for any radio reception, including television, but we had some good results on an aerial about 200 feet long. Television needs the maximum signal energy, and no small aerial will do this. The ground is not essential, however, and a tiny condenser can be used in series with the aerial."

Now let us consider the ground connection, for it is of prime importance. The broadcasting station emits two waves. The sky wave is propagated aloft until it strikes the distant Heavyside ionized regions and is reflected back to earth. This wave travels farther at night than it does in daylight. The ground wave runs along the earth but soon dies out. But it sometimes travels farther during daylight than the associated sky wave. Radio sets, therefore, need both a ground and aerial during daylight hours, and often the former will bring in more stations than the aerial. After dark, however, the aerial is of greater importance, and frequently functions perfectly without a ground connection. Long wave and broadcast band reception require a good ground, but short wave reception can be carried on without a ground connection.

In general, the use of a ground to a cold-water pipe is universally recommended. There may be some slight objection to this on account of the fact that other electrical appliances may be connected to the same pipe. The Radio Corporation engineers report they have never found any large amount of trouble which they could trace directly to such a source. They advise that the cold-water pipe is the easiest source of ground connection and is likely to be in perfect contact with the earth. It is more important that a good solid connection be made to the pipe itself than that some special form of ground other than a pipe be used.

### Recommends Separate Ground

On the other hand, one high official scientist recommends a separate ground when possible. Unfortunately, in most cases the only ground available is the cold-water pipe. This recommendation is that since any ground connection of considerable length is apt to pick up annoying disturbances in congested areas and apartment houses, it is best to run a separate ground wire in a shielded and grounded covering to some individual grounded object. It will be safe, in this case, to connect to the cold-water pipe at the point where it immediately enters the house or cellar. This will be better than connecting to the pipe on some upper floor. The general recommendation, however, is to ground always to a cold-water pipe instead of a radiator or steam main, gas line, or electric wiring conduit. Scrape and clean the pipe and use a regulation ground clamp to which is soldered a No. 14 copper wire.

When water pipes are not available it will be necessary to bury large sheets of copper plate on edge at least six feet beneath the surface in a moist spot. Or several new pipes may be driven down six or eight feet and all soldered together with a copper wire. In dry and arid regions an antenna counterpoise consisting of three or four lengths of copper wire may be laid out on the ground radiating like spokes of a wheel about 75 feet from a central point.

Frequently the marked difference of opinion on the subject of antenna and

ground connections for radio reception is very likely due to the fact that different local conditions and reception requirements make very considerable differences in the actions of antenna and ground systems. If a definite standard were to be adopted it would be found that the results obtained in two separate localities might vary considerably. But these variations are largely due to the external conditions over which man has little or no control.

## A Doubting Thomas

*Continued from page 6*

Caddell writes: "Incidentally I owe my success to RADEX for it was in the February, 1931, edition, on page 11, that I learned of the simple wrinkle of changing the wiring of the R. C. A. 60 to use 245 power tube in place of the 171-A. Then to use a pentode tube all I had to do was to buy an adapter and I now have, I think, one of the most sensitive sets in the country—thanks to RADEX. I have had many fancy offers from local DXers for my set but I have had it so long that I kind of hate to part with the 'old heap.'"

"Another feature of my set is the astounding 5 kc. selectivity I get even on KDKA and other local stations, even when I switch on my 600-foot aerial."

So, cheer up, DXers. If you haven't the very latest model, for so far as sets are concerned, you can see that with even some of the old-timers, it is possible to bring in the whole world.

## Joe Palooka

*Continued from page 18*

theatre is a summer camp on an island in the middle of a twelve-mile lake in the Berkshires. The script of "Joe Palooka," produced by Ham Fisher, the comic-strip creator, and Georgia Backus, is unusual in radio episodes in that each act creates a complete situation and builds up to a separate climax.

The 15-minute sketch can be heard Tuesdays and Thursdays at 6:45 p.m. EDST over the Columbia system, and for far western audiences, at 11 p.m. EDST.

# Classified Index to Programs

*Time in Eastern Daylight Standard*

## CHILDREN

Lady Next Door, 4:45 p.m., Daily, except Sunday, R.  
Little Orphan Annie, 5:45 and 6:45 p.m., Daily, ex. Sun., B.  
Skippy, 5:15 p.m., Daily, except Sunday, R.

## CONCERTS

Artists' Service Musicale, 10:30 p.m., Wednesday, R.  
Howard Barlow, 11:15 p.m., Tuesday and Thursday, C.  
Major Bowes, 11:30 a.m., Sunday, R.  
Cities Service, 8 p.m., Friday, R.  
Civic Concerts Service, 8:15 p.m., Saturday, R.  
Gauchos, 11 p.m., Sunday, C.  
Gay Vienna, 9:00 p.m., Tuesday, R.  
L'Heure Exquise, 9:45 p.m., Sunday, R.  
Little Musicale, 8:30 p.m., Tuesday, B.  
Walter Logan, 1:30 p.m., Sunday, R.  
Mobiloil, 9:30 p.m., Wednesday, R.  
Orchestra Gems, 7:30 p.m., Sunday, R.  
Pastorale, 5 p.m., Sunday, C.  
Quiet Harmonies, 6 p.m., Sunday, C.  
Road to Romany, 5:30 p.m., Sunday, B.  
Rochester Civic Orchestra, 11:15 p.m., Wednesday, B.

## DANCE BANDS

Gus Arnheim, 12 mid., Friday, C.  
Ben Bernie, 9 p.m., Tuesday, C.  
Cab Calloway, 11:30 p.m., Tuesday, R.; 12 m., Wednesday and Friday, B.  
Ted Cook, 11:30 p.m., Sunday, B.  
Coon-Sanders, 12 mid., Sunday, C.  
Countess d'Orsay, 8:30 p.m., Saturday, B.  
Jack Denny, 9 p.m., Sunday, C.  
Eddie Duchin, 11:30 p.m., Sunday, C.  
Snooks Friedman, 6:30 p.m., Friday, C.  
Larry Funk, 12:30 a.m., Sunday and Monday; 6:45 p.m., Friday, R.  
Geo. Hall, 6:30 p.m., Monday, C.  
Hal Kemp, 11:30 p.m., Thursday, B.  
Wayne King, 3 p.m., Sunday; 5:30 p.m., Wed., R.  
Guy Lombardo, 9 p.m., Wednesday, C.  
Vincent Lopez, 11:15 p.m., Mon., Wed. and Fri., R.  
Abe Lyman, 8:15 p.m., Tues., Thurs. and Sat., C.  
George Olsen, 9:30 p.m., Monday and Wednesday, B.  
Jack Pettis, 12:05 a.m., Tues., Thur. and Fri.; 11:30 p.m., Saturday, R.  
Don Redman, 12 mid., Mon. and Thurs., 11:45 p.m., Friday, C.  
Harry Reser, 11:15 p.m., Thursday, R.; 11:30 p.m., Friday and Saturday, B.  
Buddy Rogers, 12 mid., Mon., Wed. and Sat., R.  
B. A. Rolfe, 8:30 p.m., Thursday and Friday, B.  
Noble Sissle, 11:45 p.m., Monday and Thursday, C.  
Paul Specht, 12 mid., Saturday, C.  
Wm. Stoess, 12 mid., Sunday, B.  
Rudy Vallee, 8 p.m., Thursday, R.  
Paul Whiteman, 10 p.m., Friday, B.

## DIALOG

Amos 'n' Andy, 7 and 11 p.m., Daily, except Sunday, B.  
Big Time, 8 p.m., Wednesday, R.  
Burns and Allen, 9 p.m., Wednesday, C.  
Clara, Lu and Em, 10:15 a.m., Daily, ex. Sat. and Sun., B.  
Easy Aces, 7:30 p.m., Monday, Wednesday and Friday, C.  
Gene and Glenn, 8 a.m., Daily, except Sunday, R.  
Goldbergs, 7:45 p.m., Daily, except Sunday, R.  
Jones and Hare, 7:45 p.m., and 12:30 a.m., Daily, except Saturday and Sunday, B.  
Making Movies, 9:45 p.m., Sunday, B.  
Myrt and Marge, 7 and 10:45 p.m., Daily, except Saturday and Sunday, C.  
Opry House, 11:15 p.m., Tuesday, R.  
Joe Palooka, 6:45 and 11 p.m., Tues. and Thurs., C.  
Ray Perkins, 6:30 p.m., Tuesday, B.  
Ries & Dunn, 6:15 p.m., Tuesday and Thursday, C.  
Sisters of Skillet, 8:45 p.m., Tues., Thurs. and Fri., B.  
Snoop and Peep, 10:15 p.m., Saturday, B.  
Standing Room Only, 8:15 p.m., Sunday, B.

Stebbins Boys, 7:30 p.m., Daily, except Sat. and Sun., B.  
Col. Stoopnagle and Budd, 8:45 p.m., Sunday, Monday and  
Wednesday, C.  
Tasty yeast Jesters, 7:15 p.m., Monday and Saturday, B.  
Ward Wilson, 6:30 p.m., Mon., Wed. and Fri., B.

#### DRAMA

Careless Love, 12 noon, Sunday, B.  
Danger Fighters, 8 p.m., Saturday, B.  
Death Valley Days, 8:30 p.m., Monday, B.  
Eno Crime Club, 9:30 p.m., Tuesday and Wednesday, C.  
First Nighter, 9:30 p.m., Saturday, B.  
Friendship Town, 9 p.m., Friday, B.  
O. Henry Stories, 9 p.m., Wednesday, B.  
Sherlock Holmes, 12 mid., Monday; 9:30 p.m., Thursday, R.  
K-7, 9 p.m., Saturday, R.  
Love Story, 9:30 p.m., Thursday, C.  
Moonshine and Honeysuckle, 2:30 p.m., Sunday, R.  
Photoplay, 8:30 p.m., Saturday, C.  
Rin-Tin-Tin, 8:15 p.m., Thursday, B.  
Roses and Drums, 6:30 p.m., Sunday, C.  
Soonyland Sketches, 8 p.m., Monday, R.  
Thompkins Corners, 9:30 p.m., Thursday, B.  
Today and Yesterday, 8:30 p.m., Friday, C.  
True Story, 8:30 p.m., Tuesday, R.

#### ORGAN

Jesse Crawford, 11:30 p.m., Sunday, R.  
Ann Leaf, 2 p.m., Mon.; 3 p.m., Tues.; 3:15 p.m., Wed., C.

#### PIANO

Fray-Braggiotti, 8 p.m., Saturday, C.  
Ernest Hutcheson, 10 p.m., Sun.; 11 p.m., Mon., C.  
Lee Sims, 11:30 p.m., Monday and Tuesday, B.  
Twenty Fingers of Harmony, 10:30 p.m., Saturday, B.  
Willys Overland, 8:15 p.m., Wednesday, B.

#### POPULAR PROGRAMS

A & P Gypsies, 9 p.m., Monday, R.; 10 p.m., Thursday, B.  
Album of Familiar Music, 9:15 p.m., Sunday, R.  
Armour Program, 9:30 p.m., Friday, B.  
Bath Club, 8 p.m., Daily, except Sat. and Sun., C.  
Beau Bacheloret, 10 p.m., Friday, C.  
Big Six, 9 p.m., Thursday, R.  
Blue Coal Revue, 5:30 p.m., Sunday, C.  
Chase & Sanborn, 8 p.m., Sunday, R.  
Clequot Club, 9 p.m., Friday, R.  
Coca-Cola Program, 10 p.m., Wednesday, R.  
Edgeworth Program, 8 p.m., Thursday, B.  
Enna Jettick Melodies, 9 p.m., Sunday, B.  
Eugene Revue, 9 p.m., Monday, C.  
Evening in Paris, 9:30 p.m., Monday, C.  
Farm and Home, 1:30 p.m., Daily, except Sunday, B.  
Fiddle and I, 7:15 p.m., Sunday, B.  
Jack Frost Melody, 8:30 p.m., Wednesday, B.  
G.E. Circle, 7:00 p.m., Sunday; 12 noon, Daily, except  
Saturday and Sunday, R.  
Great Personalities, 9:30 p.m., Tuesday, B.  
Hollywood Nights, 10:30 p.m., Thursday, B.  
Iodent Program, 4 p.m., Sunday, R.  
Just Willie, 7:15 p.m., Tuesday, B.  
Kodak Week-End, 9 p.m., Friday, C.  
Lucky Strike, 10 p.m., Tues., Thurs. and Sat., R.  
Maxwell House, 7:15 and 11:15 p.m., Mond., Wed. and  
Fri., C.  
Mello Cello, 11:15 p.m., Sunday, B.  
Musical Fast Freight, 10:15 p.m., Tues. and Thurs., C.  
Nestle's Program, 8 p.m., Friday, B.  
Parade of States, 9:30 p.m., Monday, R.  
Paris Night Life, 10:30 p.m., Tuesday, B.  
Pennzoil Parade, 9:30 and 11:30 p.m., Sunday, C.  
Picadilly Circus, 4:30 p.m., Sunday, B.  
Pond's Program, 9:30 p.m., Friday, R.  
San Felice, 10 p.m., Monday and Wednesday, B.  
Shaeffer Revue, 10:15 p.m., Sunday, R.  
Silver Flute, 12:30 p.m., Sunday, R.  
Simoniz Guardsmen, 5:30 p.m., Sunday, B.  
Sinclair Wiener Minstrels, 9 p.m., Monday, B.  
Slow River, 5:30 p.m., Sunday, R.  
Society's Playboy, 10:30 p.m., Wednesday, C.  
Songs of Home, 4 p.m., Sunday, B.  
Three Bakers, 7:30 p.m., Sunday, B.

Club Valspar, 9:30 p.m., Saturday, R.  
Violin Twins, 10:45 p.m., Sunday, B.  
Waves of Melody, 10:30 p.m., Wednesday, B.  
Ed Wynn, 9:30 p.m., Tuesday, R.  
Yeast Foamers, 2:30 p.m., Sunday, B.  
Ziegfeld Show, 10:30 p.m., Sunday, C.

#### QUARTETS

Bayuk Stags, 9:15 p.m., Sunday, B.  
Carnation Contented, 8 p.m., Monday, B.  
Mills Bros., 7:15 p.m., Tues.; 9:15 p.m., Thurs., C.  
Regimentalists, 10 p.m., Tuesday, B.  
Sylvanians, 7:45 p.m., Sunday, C.

#### RELIGIOUS

Cathedral Hour, 3:30 p.m., Sunday, C.  
Catholic Hour, 6 p.m., Sunday, R.  
Church of the Air, 2:30 p.m., Sunday, C.  
Hymn Sing, 7 p.m., Tuesday, R.  
National Sunday Forum, 3:30 p.m., Sunday, R.  
Seth Parker, 10:45 p.m., Sunday, R.  
Sabbath Reveries, 5:00 p.m., Sunday, B.

#### SINGERS

Belle Baker, 9 p.m., Sunday, C.  
Connie Boswell, 6 p.m., Wed.; 5:45 p.m., Sat., C.  
Boswell Sisters, 10:30 p.m., Mon.; 10 p.m., Thurs., C.  
Russ Columbo, 11:15 p.m., Sunday; 11 p.m., Daily, except  
Sunday and Wednesday, R.  
Bing Crosby, 11:45 p.m., Tuesday, C.  
Vaughn DeLeath, 6:45 p.m., Mon. and Fri.; 9 p.m., Sat., C.  
Kay Donna, 10:30 p.m., Monday, R.  
Do Re Me, 7:30 p.m., Saturday, C.  
Ruth Etting, 10 p.m., Wednesday and Saturday, C.  
John Fogarty, 4:15 p.m., Sunday, R.  
Jane Froman, 4 p.m., Sunday, R.  
Sylvia Froos, 7:30 p.m., Tuesday and Thursday, C.  
Funnyboners, 10:45 p.m., Tuesday and Friday, C.  
Alex Gray, 10:30 p.m., Tuesday and Friday, C.  
Tito Guizar, 9:30 p.m., Friday, C.  
Wm. Vincent Hall, 7:15 p.m., Saturday, C.  
Arthur Jarrett, 10:45 p.m., Monday and Thursday, C.  
McCravy Bros., 10:45 p.m., Monday and Tuesday, B.  
Jack Miller, 6:30 p.m., Tues., Thurs. and Sat., C.  
Modern Male Chorus, 8:45 p.m., Tuesday, C.  
Grace Moore, 9 p.m., Wednesday, R.  
Frank Munn, 9:15 p.m., Sunday, R.; 10:30 p.m., Monday  
and Friday, B.  
Old Singing Master, 10:15 p.m., Sunday, B.  
Pickens Sisters, 10:45 p.m., Wed., Thurs. and Fri., B.  
June Pursell, 6:45 p.m., Mon., Thurs. and Sat., R.  
Sanderson-Crumit, 8 p.m., Tues., R.; 9 p.m., Thurs., B.  
Singing Sam, 8:15 p.m., Mon., Wed. and Fri., C.  
Kate Smith, 8:30 p.m., Mon., Tues. and Wed., C.  
Sons of Eli, 2 p.m., Sunday, C.  
Street Singer, 12:45 p.m., Sun.; 9:15 p.m., Mon.; 10:45 p.m.,  
Wed. and Sat., C.  
Lawrence Tibbett, 8:30 and 11:30 p.m., Monday, R.  
Gus Van, 9:45 p.m., Friday, C.  
Voice 1000 Shades, 10 p.m., Tuesday, C.

#### TALKS

Adventures in Health, 10:15 p.m., Wed. and Fri., C.  
Back of News, 6:45 p.m., Tuesday, R.  
Believe It or Not, Ripley, 7:15 p.m., Wed. and Fri., B.  
Builders of America, 1:00 p.m., Sunday, C.  
Cheerio, 8:30 a.m., Daily, except Sunday, R.  
Ely Culbertson, 4:30 p.m., Mon. and Wed.; 8 p.m., Sat., R.  
Friendly Hour, 3:00 p.m., Sunday, B.  
International Broadcast, 12:30 p.m., Sunday, C.; and 4:30  
p.m., Sunday, R.  
Kaltenborn, 6 p.m., Monday and Friday, C.  
David Lawrence, 9 p.m., Sunday, R.  
Laws Safeguard, 7:15 p.m., Saturday, R.  
Angelo Patri, 8:45 p.m., Sunday and Thursday, C.  
Public Affairs, 10:15 p.m., Saturday, C.  
Nellie Revell, 11 p.m., Wednesday, R.  
Taxpayers' League, 8 p.m., Wednesday, B.  
Lowell Thomas, 6:45 p.m., Daily, except Sat. and Sun., B.  
Frederick William Wile, 7 p.m., Saturday, C.  
World Today, 6:30 p.m., Thursday, R.  
World's Business, 7:00 p.m., Sunday, C.  
You and Your Government, 8:00 p.m., Tuesday, B.

# 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)-----WABC NATIONAL, Red (R)----WEAF NATIONAL, Blue (B)----WJZ

Call	Dial	Call	Dial

Call	Dial	Call	Dial

Call	Dial	Call	Dial

TIME—ED Eastern Daylight Saving; E Eastern Standard; C Central Standard; M Mountain Standard.  
For Pacific Time subtract one hour from Mountain.

## MONDAY

ED-8:00 a.m., E-7:00, C-6:00, M-5:00  
R—Gene and Glenn

WBEN WCAE WCSH WEAF WEEI  
WFBR WFI WGY WIOD WJAR WRC  
WSAI WTAG WTAM WVIC WWJ

ED-8:30 a.m., E-7:30, C-6:30, M-5:30  
R—Cheerio

CFCF CKGW KPRC KTBS WAPI  
WBEN WCAE WCFE WCKY WCSH  
WDAF WEAF WEEI WFBR WFI  
WFLA WGY WHAS WIOD WIS  
WJAR WJAX WJDX WKY WOAI  
WOW WPTF WRC WRVA WSB  
WSM WSBM WTAG WTAM WVIC  
WWJ WWNC

ED-10:15 a.m., E-9:15, C-8:15, M-7:15  
B—Clara, Lu and Em

KDKA KFYR KOA KOIL KPRC  
KSL KVOO KWK WAPI WBAL  
WBAP WBZA WCKY WDAY WEBC  
WFLA WGAR WHAM WHAS WIBA  
WIOD WIS WJAX WJDX WJR  
WJZ WKY WMC WOAI WPTF  
WREN WRVA WSB WSM WSBM  
WTMJ WWNC

ED 12:00 n., E-11:00, C-10:00, M-9:00  
R—G.E. Circle

KFI KFSD KFYR KGHL KGHR KGO  
KGW KHQ KOA KOMO KPRC  
KSD KSL KSTP KTAR KTHS KVOO  
WBAP WBEN WCAE WCSH WDAF  
WDAY WEAF WEBC WEEI WENR  
WFBR WGY WHO WIBA WJAR  
WKY WLIT WOAI WOC WSAI  
WTAG WTAM WVIC WTMJ WWJ  
WRC

ED-1:30 p.m., E-12:30, C-11:30, M-10:30  
B—National Farm and Home Hour

KDKA KFYR KOA KOIL KPRC  
KSTP KTBS KTHS KVOO KWK  
KYW WAPI WBAL WCKY WDAF  
WDAY WEBC WFLA WGAR WHAM  
WHAS WHO WIBA WIOD WIS WJAX  
WJDX WJR WJZ WKY WMC WOAI  
WOC WOW WPTF WRC WREN  
WRVA WSB WSM WSBM WWNC

ED-2:00 p.m., E-1:00, C-12:00, M-11:00  
C—Ann Leaf at Organ

CFRB WAAB WABC WADC WBCM  
WBRC WBT WCAO WCAU WDAE  
WDBJ WDOD WDRC WDSU WFBL  
WFEA WGR WHP WLAC WLWB  
WMAL WNOX WOKO WORC WOWO  
WPG WQAM WREC WSBT WSFA  
WSPD WTAR WTOC WXYZ

ED-4:30 p.m., E-3:30, C-2:30, M-1:30  
R—Ely Culbertson, Bridge

CFCF CKGW WBEN WCAE WCSH  
WDAF WEAF WEEI WENR WFBR  
WGY WHO WJAR WLIT WOC  
WRC WSAI WTAG WTAM WVIC  
WWJ

ED-4:45 p.m., E-3:45, C-2:45, M-1:45  
R—Lady Next Door

WCSH WEAF WJAR WTAG WTAM  
WWJ

ED-5:15 p.m., E-4:15, C-3:15, M-2:15  
R—Skippy

WBEN WCAE WCSH WEAF WEEI  
WFBR WGY WJAR WLIT WRC  
WSAI WTAG WTAM WVIC WWJ

ED-5:45 p.m., E-4:45, C-3:45, M-2:45  
B—Little Orphan Annie

KDKA WBAL WBZA WCKY WGAR  
WHAM WJZ

ED-6:00 p.m., E-5:00, C-4:00, M-3:00  
C—Current Events, Kaltenborn

KDYL KFAB KLRA KLZ KMBC  
KMOX KOH KRLD KSCJ KTRH  
KVOR WAAB WABC WACO WBRB  
WBT WBOB WCOO WDAE WDBJ  
WFEA WFIW WIFW WIP WISN  
WKBH WLAC WLAF WLWB WMAL  
WMT WNOX WOKO WORC WOWO  
WQAM WREC WSBT WSFA WSPD  
WTAG WTAR WTOC WWVA WHP

ED-6:30 p.m., E-5:30, C-4:30, M-3:30  
C—George Hall and Orchestra

KDYL KFAB KFH KFJF KGB  
KLRA KLZ KMBC KMOX KOH  
KSCJ KTRH KTSB KVOR WAAB  
WABC WBIG WBRC WCAH WCAO  
WDAE WDBJ WDBO WDOD WDRC  
WDSU WFBL WGR WGST WHAS  
WHBC WHP WISN WKBH WKBN  
WLAC WLWB WLZ WNOX WOKO  
WQAM WREC WSBT WSFA  
WTAG WTOC WXYZ

R—Royal Vagabonds, Ward Wilson

KOIL KWK WAPI WBAL WBZA  
WCKY WFAA WGAR WHAM WJZ  
WMAQ WOAI WREN WRVA WSB  
WTMJ

ED-6:45 p.m., E-5:45, C-4:45, M-3:45  
C—Vaughn De Leath

CFRB KDYL KFH KLRA KLZ  
KMBC KMOX KOH KRLD KSCJ  
KTRH KVOR WAAB WABC WACO  
WBRC WBT WCAO WCOO WDAE  
WDBJ WDBO WDOD WDRC WDSU  
WEAN WFEA WFIW WGR WHP  
WIBW WIP WISN WKBN WLAC  
WLAP WLWB WMT WNOX WOKO  
WORC WOWO WQAM WREC WSBT  
WSFA WSPD WTAG WTAR WTOC  
WWVA

R—June Pursell, Ballads

KOA KSD WCAE WEAF WFI WIOD  
B—Literary Digest, Lowell Thomas

KDKA WBAL WBZA WHAM WJZ  
WLWB WMAQ

R—Little Orphan Annie

KEX KFYR KOIL KPRC KSTP  
KWK WDAY WEBC WENR WKY  
WOAI WREN

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

KMOX WABC WADC WCAO WCAU  
WDRB WEAN WFBL WGR WJAS  
WKRC WMAL WNAC WOKO WSPD  
WWVA

B—Amos 'n' Andy

CFCF CKGW KDKA WBAL WBZA  
WFLA WIOD WJAX WJZ WPTF  
WRC WRVA WHAM WLW WCKY

ED-7:15 p.m., E-6:15, C-5:15, M-4:15  
C—Maxwell House Tune Blenders

WABC WCAU WDRC WEAN WGR  
WJAS WNAC WOKO

B—Tastyeast Jesters

KDKA KOIL WBAL WBZA WCKY  
WENR WJZ WREN

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

KMBC KMOX WABC WCAO WCCO  
WFBN WGN WGR WHK WJAS  
WKRC WNAC WOKO WXYZ WCAU  
B—Stebbins Boys

KDKA KFI KGO KGW KHQ KOA  
KOIL KOMO KPRC KSL KSTP  
KWK WBAL WBZA WCKY WENR  
WFAA WGAR WHAM WJR WJZ  
WKY WMC WOAI WBS WSM WSBM  
WTMJ WREN

ED-7:45 p.m., E-6:45, C-5:45, M-4:45  
R—The Goldbergs

KSD WBEN WCAE WCSH WDAF  
WEAF WENR WGY WHO WJAR  
WLIT WOC WOW WSAI WTAG  
WTAM WVIC WWJ

B—Billy Jones and Ernie Hare

KDKA KOIL KPRC KWK WAPI  
WBAL WBZA WCKY WFAA WFLA  
WGAR WHAM WHAS WIOD WIS  
WJAX WJDX WJR WJZ WKY  
WMAQ WMC WOAI WPTF WREN  
WRVA WSB WSM WSBM WWNC

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

CFRB KMBC KMOX WABC WADC  
WBCM WCAO WCAU WCCO WDRC  
WDSU WEAN WFBL WFBM WGN  
WGR WHK WISN WJAS WKRC  
WMAL WNAC WOKO WSPD WXYZ

R—Soconyland Sketches

WBEN WCSH WEAF WEEI WGY  
WJAR WTAG WVIC

B—Carnation Contented Program

CFCF CKGW KDKA KOIL KPRC  
KSTP KVOO KWK WBAL WCKY  
WDAY WEBC WFAA WFLA WHAM  
WHAS WIOD WJAX WJR WJZ WKY  
WLS WMC WOAI WPTF WREN  
WRVA WBS WSM WTMJ

ED-8:15 p.m., E-7:15, C-6:15, M-5:15  
C—Singing Sam, Barbaol

KMBC KMOX WABC WADC WCAO  
WCAU WCCO WDRC WEAN WFBL  
WCBM WGN WGR WHK WJAS

Monday—Continued

WKRC WMAL WNAC WOKO WSPD WXYZ

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

C — La Palina, Kate Smith  
KMCB KMOX WABC WADC WBCM  
WCAH WCAO WCAU WCCO WFBL  
WFBM WGN WGR WHEC WHK  
WISN WJAS WKRC WLAP WMAL  
WSPD WXYZ

R — Firestone, Lawrence Tibbett  
CFBC CKGW KPRC KTBS KTHS  
WBEN WCAE WCSH WDAF WEAF  
WFAA WFBM WFLA WGY WHAS  
WIOD WIS WJAR WJAX WJDX  
WKY WLIT WMC WOAI WPTF  
WRC WRVA WSAI WSB WSM  
WSMB WTAG WTAM WVIC WWJ  
WWNC WVOO

B — Death Valley Days, Drama  
KDKA KFI KFSD KFYP KGHM  
KGO KGW KHQ KOA KOMO KSL  
KSTP KTAR KWK WBAL WBZA  
WCKY WEBC WGAR WHAM WIBA  
WJZ WLS WREN

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

C — Col. Stoppagle and Budd  
KLZ KMBC KMOX WABC WADC  
WCAO WCAU WCCO WDRS WEAN  
WFBL WGN WGR WHK WJAS  
WKRC WMAL WNAC WOKO WOWO  
WSPD WXYZ

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

C — Eugene International Revue  
KMCB KMOX KRLL WABC WADC  
WCAO WCAU WCCO WDRS WDSU  
WEAN WFBL WFBM WGN WGST  
WIK WJAS WKWB WKRC WMAL  
WNAC WOKO WOWO WREC WSPD  
WXYZ

R — A. & P. Gypsies

KSD WBEN WCAE WCSH WDAF  
WEAF WEEL WGY WHO WJAR  
WLIT WMAQ WOC WOV WRC  
WSAI WTAG WTAM WVIC WWJ  
B — Sinclair Wiener Minstrels

KDKA KFYP KPRC KSTP KTBS  
KTHS KVQO KWK WBAL WBZA  
WDAY WEBC WFLA WFLA WGAR  
WHAM WIBA WIOD WIS WJAX  
WJDX WJR WJZ WKY WLS WMC  
WOAI WPTF WREN WRVA WSM  
WSMB WTMJ WWNC

ED-9:15 p.m., E-8:15, C-7:15, M-6:15

C — Street Singer  
KMCB KMOX WABC WADC WCAO  
WCAU WCCO WDRS WEAN WFBL  
WGN WHK WJAS WKWB WKRC  
WMAL WNAC WOKO WOWO WSPD  
WXYZ

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

C — Evening in Paris  
KMCB WABC WADC WBT WCAO  
WCAU WEAN WFBL WGN WHEC  
WHK WJAS WKWB WKRC WMAL  
WMT WNAC WOWO WSPD WXYZ  
R — Parade of the Stars  
KFI KFYP KGO KGW KHQ KOA  
KOMO KPRC KSD KSL KSTP  
WBEN WCAE WCSH WDAF WEAF  
WEEL WFAA WFBM WGY WHAS  
WHO WJAR WJAX WKY WLIT  
WMC WOAI WOC WOV WRC  
WSAI WSB WSM WTAG WTAM  
WVIC WTMJ WWJ

B — Jack Benny; George Olsen  
CFBC CKGW KDKA KOL KWCR  
KWK WBAL WBZA WGAR WHAM  
WJR WJZ WLW WMAQ WREN

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

R — National Radio Forum  
KFYP KSD KTBS WCSH WDAY  
WEAF WEBC WENR WFBM WFLA  
WIBA WIOD WIS WJAR WJDX  
WMC WRC WRVA WSAI WSB WSM  
WSMB WTAG WTAM WWJ WWNC  
B — San Felician Serenade  
KDKA KOL KWCR KWK WBAL  
WGAR WJR WJZ WMAQ WREN

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

C — Music That Satisfies  
KDB KDYL KERN KFAB KFBC  
KFH KFJF KFPY KFRC KGB KGMB  
KHJ KLRA KLZ KMBC KMJ KMOX  
KOH KOIN KOL KOY KRLL KSCJ  
KTRH KTSa KVOR KGW WAAB  
WABC WACO WADC WBBM WBCM  
WBIG WBRC WBT WCAH WCAO  
WCAU WCCO WDAE WDBJ WDBO  
WDDO WDRS WDSU WEAN WEBC  
WFBM WFRW WGST WEAD WHEC  
WHK WHP WIBW WJAS WKBB  
WKWB WKRC WLAC WLAP WLWB  
WLZB WMAL WMBD WMBG WMT  
WNAX WNOX WOC WORC WOWO  
WPG WQAM WREC WSPD WTAR  
WTOC WXYZ

R — Kay Donna, Contralto

KFYP KSTP KTBS WBEN WCAE  
WCSH WDAF WEAF WENR WFLA  
WGY WHO WIOD WIS WJAR WJDX  
WKY WLIT WOAI WOC WRC WSAI  
WSB WSMB WTAG WWJ WWNC  
B — Love Songs; Frank Munn  
KDKA KOL KWCR KWK KYW  
WBAL WBZA WCKY WGAR WHAM  
WJR WJZ WREN

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

C — Arthur Jarrett  
CFRB KLRA WAAB WABC WADC  
WBRC WBT WCAO WCAU WDAE  
WDBJ WDBO WDDO WDRS WDSU  
WFBL WFEA WFIW WHEC WHP  
WLAC WLWB WMAL WNOX WOKO  
WORC WPG WQAM WREC WTAR  
WTOC

C — Myrt and Marge

KDYL KFBK KFPY KFRC KHJ  
KLZ KMBC KMJ KOIN KOL WBBM  
WCCO WLAP WXYZ  
R — McCarty Brothers  
KDKA KOL WBAL WGAR WHAM  
WJR WJZ WREN

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

C — Ernest Hutcheson, Pianist  
KDYL KFAB KFBK KFJF KFPY  
KHJ KLRA KLZ KMBC KOH KOL  
KSCJ KTRH KTSa KVI KVOR  
WAAB WABC WBCM WBIG WBRC  
WCAH WCAO WCCO WDAE WDBJ  
WDBO WDDO WDRS WDSU WEAN  
WFBM WFEA WHAS WHEC WHK  
WHP WIBW WIP WJAS WKBB  
WKWB WLWB WLZB WMAL WMBD  
WMT WNAX WNOX WOC WORC  
WPG WQAM WREC WSA WSPD  
WTAR WTOC WXYZ

R — Russ Columbo and Orchestra

WEAF WPI WIOD WJAR WOW  
WRC WVIC WWJ WWNC  
B — Amos 'n' Andy  
KFI KFSD KGO KGW KHQ KOA  
KOL KOMO KPRC KSL KSTP  
KTHS KWK WBAP WDAF WEBC  
WENR WGAR WHAS WIBA WJDX  
WJR WKY WMAQ WMC WOAI  
WREN WSB WSM WSMB WTMJ

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

C — Maxwell House Blenders  
KFAB KFH KFJF KLRA KMBC  
KMOX KTRH KTSa WABC WACO

WBRC WBT WCAO WCCO WDAE  
WDBJ WDBO WDDO WFBL WFIW  
WGN WGST WHK WKRC WLAC  
WLAP WMAL WNOX WOV WQAM  
WREC WRR WSPD WTAR WTOC  
WXYZ

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

R — Firestone, Lawrence Tibbett  
KFI KFSD KFYP KGHM KGIR KGO  
KGO KGW KHQ KOA KOMO KSL  
KSTP KTAR WDAY WEBC WIBA  
WTMJ  
B — Piano Moods  
KPRC KTBS WBAL WJZ WLW  
WMAQ WREN

ED-11:45 p.m., E-10:45, C-9:45, M-8:45

C — Noble Sissle and Orchestra  
CFRB KDYL KFAB KFPY KLRA  
KLZ KMBC KOH KOL KRLL KSCJ  
KTRH KVOR WAAB WABC WACO  
WADC WBCM WBRC WBT WCAH  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDDO WDRS WDSU WEAN  
WFBL WFBM WFEA WFIW WHEC  
WHP WISN WKBB WKBN WKWB  
WLAC WLAP WLWB WMAL WMBD  
WMT WNAX WNOX WOC WORC  
WOWO WPG WQAM WREC WSBT  
WSFA WSPD WTAR WTOC WXYZ  
R — Vincent Lopez and Orchestra  
KOA WCKY WEAF WENR WJAR  
WLIT WSM WTAM

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

C — Don Redman and Orchestra  
KDYL KFAB KFH KFPY KLRA  
KLZ KMBC KOH KOL KRLL KSCJ  
KTRH KVOR WABC WACO WADC  
WBBM WBCM WBRC WBT WCAH  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDDO WDSU WEAN WFBL  
WFBM WFEA WFIW WHEC WHK  
WHP WIBW WISN WKBN WKWB  
WLAP WLWB WMAL WMBD WMT  
WNAC WNOX WOKO WOV WQAM  
WREC WSBT WSFA WSPD WTAR  
WTOC WXYZ WNAX

R — Sherlock Holmes

KFI KFSD KGO KGW KHQ KOA  
KOMO KSL KTAR

ED-12:05 a.m., E-11:05, C-10:05, M-9:05

R — Buddy Rogers and Orchestra  
WCAE WEAF WEEL WGY WRC

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

B — Billy Jones and Ernie Hare  
KFI KFSD KGO KGW KHQ KOA  
KOMO KSL KTAR  
R — Larry Funk and Orchestra  
KOA KSD WCAE WEAF WENR  
WKY WRC WSM WTAM

TUESDAY

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

R — Gene and Glenn, See Monday.

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

R — Cheerio, See Monday

ED-10:15 a.m., E-9:15, C-8:15, M-7:15

B — Clara, Lu and Em, See Monday

ED-12:00 n., E-11:00, C-10:00, M-9:00

R — G.E. Circle, See Monday

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

B — Farm and Home, See Monday

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

R — Lady Next Door, See Monday

ED-5:15 p.m., E-4:15, C-3:15, M-2:15

R — Skippy, See Monday

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

B — Orphan Annie, See Monday



**Tuesday—Continued**

**ED-6:15 p.m., E-5:15, C-4:15, M-3:15**  
**C — Reis and Dunn**  
 CFRB KDYL KFH KLR KTR  
 KMBC KOH KRLL DSCJ KJZ  
 KFOR WAAB WABC WACO WBRC  
 WBT WCAO WCCO WDAE WDBJ  
 WDBO WDOD WDRC WDSU WFBL  
 WFIW WGR WHP WIBW WISN  
 WKBB WKBN WLAC WLAP WLWB  
 WMT WNOX WOKO WORC WOWO  
 WQAM WRFC WSBT WSPA WSPD  
 WTAQ WTAR WTOC WWVA

**ED-6:30 p.m., E-5:30, C-4:30, M-3:30**  
**C — Jack Miller and Orchestra**  
 KDYL KFAB KFH KLR KJZ  
 KMBC KMOX KOH KSCJ KTRH  
 KFOR WAAB WABC WACO WBBM  
 WBRC WCAH WCCO WDAE WDBJ  
 WDBO WDOD WDRC WDSU WFEA  
 WFIW WGR WHEC WHP WISN  
 WKBB WKBN WLAC WLAP WLWB  
 WMT WNOX WOKO WORC WOWO  
 WQAM WRFC WSBT WSPA WSPD  
 WTAQ WTAR WTOC WWVA WXYZ  
**B — Ray Perkins**  
 KDKA KOA KOIL KPRC KSL  
 KWK WAPI WBAL WBZA WKCY  
 WGAR WHAM WHAS WJDX WJZ  
 WMAQ WMC WOAI WREN WSB  
 WSM WSMB

**ED-6:45 p.m., E-5:45, C-4:45, M-3:45**  
**C — Joe Palooka**  
 KFAB KSCJ KTRH WAAB WABC  
 WADC WBBM WCAH WCAO WCAU  
 WDAE WDBO WDRC WDSU WEAN  
 WFBL WGST WHP WISN WJAS  
 WKBW WKRC WLAC WLAP WMT  
 WNOX WOKO WOWO WQAM WRFC  
 WRR WSPD WTAR WTOC WXYZ  
**R — Back of News in Washington**  
 KFI KFSD KGW KOA KTAR WDAF  
 WFAF WFRB WFI WGY WIOD WIS  
 WPTF WRC WSAI WTAG WTIC  
 WWNC  
**B — Lowell Thomas, See Monday**  
**B — Orphan Annie, 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**  
**R — Mid-Week Federation Hymn Sing**  
 KEX KGA KJR KPO KTBS WDAF  
 WFAF WJAR WJDX WREN WSAI  
 WTAG WTIC

**ED-7:15 p.m., E-6:15, C-5:15, M-4:15**  
**C — Mills Brothers**  
 KMBC KMOX WABC WADC WBBM  
 WCAO WCAU WDRC WEAN WFBL  
 WFBM WGR WHK WJAS WKRC  
 WMAL WNAC WOKO WSPD  
**B — Just Willie**  
 KDKA KOIL WBZA WENR WJZ  
 WREN

**ED-7:30 p.m., E-6:30, C-5:30, M-4:30**  
**C — Richman Bros., Sylvia Froos**  
 KMBC KMOX WAAB WABC WADC  
 WBBM WCAH WCAU WCCO WFBL  
 WFBM WGL WGR WHK WISN  
 WJAS WKBN WKRC WLAP WSPD  
 WWVA WXYZ  
**B — Stebbins Boys, See Monday**

**ED-7:45 p.m., E-6:45, C-5:45, M-4:45**  
**R — Goldbergs, See Monday**  
**B — Jones and Hare, See Monday**  
**ED-8:00 p.m., E-7:00, C-6:00, M-5:00**  
**C — Bath Club, See Monday**  
**R — Blackstone, Sanderson-Crumit**  
 KSD KSTP KYW WCAE WCSH  
 WDAF WFAF WFCB WEEI WFI  
 WGY WHO WJAR WOC WOW

WRC WSAI WTAG WTAM WTIC  
 WWSJ WBEN  
**B — You and Your Government**  
 KECA KEX KFSD KGA KGHK  
 KGIR KJR KOA KOIL KPO KSL  
 KTAR KTBS KVOC KWCR KWK  
 KYA WBAP WCKY WFLA WGAR  
 WIOD WIS WJDX WJZ WLS WMC  
 WPTF WREN WSM WSMB WWCN

**ED-9:15 p.m., E-7:15, C-6:15, M-5:15**  
**C — Abe Lyman and Orchestra**  
 KMBC KMOX WABC WADC WBCM  
 WCAH WCAO WCAU WCCO WFBL  
 WFBM WGN WGR WHEC WHK  
 WISN WJAS WKBN WKRC WLAP  
 WMAL WSPD WXYZ

**ED-9:30 p.m., E-7:30, C-6:30, M-5:30**  
**C — Kate Smith, See Monday**  
**R — Truie Steery**  
 KSD KYW WBN WCSH WDAF  
 WFAF WEEI WFRB WFI WGY  
 WHO WJAR WOC WOW WRC WSAI  
 WTAG WTAM WTIC WWJ  
**B — Little Musicals**  
 KFI KFSD KGW KHQ KOA KOIL  
 KOMO KPO KSL KTAR KWK  
 WBZA WHAM WJZ WLS WREN

**ED-9:45 p.m., E-7:45, C-6:45, M-5:45**  
**C — Modern Male Chorus**  
 KFAB KFBK KFH KFJF KFPY  
 KHJ KLR KMA KMOX KOH  
 KOY KRLL KSCJ KTRH KVI  
 KFOR WABC WACO WADC WBIG  
 WCAO WCAU WCCO WDAE WDBJ  
 WDBO WDOD WDRC WDSU WEAN  
 WFBL WFBM WGN WGR WEAS  
 WHK WIBW WISN WJAS WKBB  
 WKRC WMAL WMT WNAC WNAX  
 WNOX WODX WOWO WQAM  
 WRFC WSPD WTAQ WTAR WTOC  
 WXYZ

**B — Sisters of the Skillet**  
 KDKA KFYR KOIL KPRC KSTP  
 KTBS KWOC KWK WBAP WBZA  
 WDAY WEBC WGAR WHAM WJAS  
 WJZ WKY WLS WLW WLOI WREN  
 WTMJ

**ED-9:00 p.m., E-8:00, C-7:00, M-6:00**  
**C — Ben Bernie and Orchestra**  
 KDYL KFBK KFH KFPY KFRC  
 KJL KLZ KMBC KMJ KOIN KOL  
 KRLL KTRH KVI WABC WADC  
 WBRC WBT WCAO WCAU WCCO  
 WDRC WDSU WEAN WFBL WGN  
 WHK WJAS WKBW WKRC WLAC  
 WMAL WNAC WNAX WOKO WORC  
 WOWO WSPD WXYZ

**R — Gay Vienna; Erno Rapee**  
 CKGW KECA KEX KFSD KGA  
 KGHK KJR KOA KSL KSTP KTAR  
 WBN WCAE WCSH WDAF WFAF  
 WEEI WFI WFLA WGY WIOD  
 WIS WJAR WLS WOW WRC WRVA  
 WSAI WSMB WTAG WTAM WTIC

**ED-9:30 p.m., E-8:30, C-7:30, M-6:30**  
**C — Eno Crime Club**  
 CFRB KMBC KMOX WABC WADC  
 WCAO WCAU WDRC WEAN WFBL  
 WGN WHK WJAS WKBW WKRC  
 WMAL WNAC WOWO WSPD WXYZ

**B — Great Personalities**  
 KDKA KOIL KWCR KWK WBAL  
 WBZA WENR WGAR WHAM WJR  
 WJZ WLW WREN  
**R — Ed Wynn; Don Voorhees**  
 KFI KFSD KFYR KGHK KGIR  
 KPO KGW KHQ KOA KOMO KPRC  
 KSD KSL KSTP KTAR KTBS KVOC  
 WBAP WBN WCAE WCSH WDAF  
 WDAY WFAF WFCB WEEI WFRB  
 WFI WFLA WGY WHO WJAS

WIOD WIS WJAR WJAX WJDX  
 WKY WMAQ WMC WOAI WOC  
 WOW WPTF WRC WRVA WSAI  
 WSB WSM WSMB WTAG WTAM  
 WTIC WTMJ WWJ WWNC

**ED-10:00 p.m., E-9:00, C-8:00, M-7:00**  
**C — Voice of 1000 Shades**  
 CFRB CKAC KDB KDYL KERN  
 KFBK KFRC KHJ KLZ KMBC  
 KMJ KMOX KOIN KOL KSCJ  
 KTRH KWG WAAB WABC WBBM  
 WBT WCAH WCAO WCAU WCCO  
 WDRC WEAN WFBL WFBM WGST  
 WHEC WHK WHP WISN WJAS  
 WKBW WKRC WLAP WMAL WMT  
 WOKO WXYZ

**R — Lucky Strike Dance Hour**  
 KFSD KFYR KGO KGW KHQ  
 KOA KOMO KPRC KSD KSL KSTP  
 KTAR KTBS WAPI WBN WCAE  
 WCSH WDAF WDAY WFAF WFBM  
 WEEI WENR WFAA WFRB WFI  
 WFLA WGY WHAS WHO WJAS  
 WIOD WIS WJAR WJAX WJDX  
 WKY WMC WOAL WOC WPTF  
 WRC WRVA WSAI WSB WSM  
 WSMB WTAG WTAM WTIC WTMJ  
 WWJ WWNC KFI  
**B — Regimentalists, Male Chorus**  
 CFCE CKGW KDKA KOIL KWCR  
 KWK WBZA WKY WGAR WHAM  
 WJR WJZ WREN

**ED-10:15 p.m., E-9:15, C-8:15, M-7:15**  
**C — Musical Fast Freight**  
 KFH KFJF WABC WCAU WDBJ  
 WFBM WJAS WMAL WOKO

**ED-10:30 p.m., E-9:30, C-8:30 M-7:30**  
**C — Music That Satisfies See Monday**  
**B — Paris Night Life**  
 KDKA KOIL KWK KYW WBAL  
 WBZA WKY WGAR WHAM WJR  
 WJZ WREN

**ED-10:45 p.m. E-9:45 C-8:45 M-7:45**  
**C — Funnyboners**  
 CFRB KLR WAAB WABC WADC  
 WBT WCAO WCAU WDAE WDBJ  
 WDBO WDOD WDRC WDSU WEAN  
 WFBL WFIW WHEC WHK WHP  
 WKBN WKBW WLAC WLWB WMAL  
 WNOX WOKO WORC WPG WQAM  
 WRFC WTOC  
**C — Myrt and Marge See Monday**  
**B — McCarty Bros. See Monday**

**ED-11:00 p.m. E-10:00 C-9:00 M-8:00**  
**C — Joe Palooka**  
 KDB KDYL KERN KFBK KFPY  
 KFRC KGB KHJ KLZ KMJ KMOX  
 KOIN KOL KVI KWG WBRC WCCO  
 WFBM WMAL  
**R — Russ Columbo See Monday**  
**B — Amos 'n' Andy See Monday**

**ED-11:15 p.m. E-10:15 C-9:15 M-8:15**  
**C — Howard Barlow and Orchestra**  
 KDYL KFAB KFBK KFH KFPY  
 KLR KLZ KMBC KMOX KOH  
 KOIN KSCJ KTRH KFOR WAAB  
 WABC WADC WBCM WBRC WBT  
 WCAH WCAO WCCO WDAE WDBJ  
 WDBO WDOD WDRC WDSU WEAN  
 WFBL WFBM WFEA WFIW WHEC  
 WHK WHP WIBW WKBB WKBN  
 WKBW WLAC WLAP WLWB WMAL  
 WMBD WMT WNAX WNOX WOC  
 WORC WOWO WQAM WRFC WSPA  
 WSPD WTAR WTOC WXYZ  
**R — Opry House**  
 KEX KGA KGHK KGIR KJR KOA  
 KPO WCAE WENR WFI WJAR  
 WRC WTAM WTIC WFAF

**Tuesday—Continued**

ED-11:30 p.m., E-10:30 C-9:30 M-8:30  
**B—Piano Moods**, See Monday  
**R—Cab Calloway and Orchestra**  
 WCAE WFAE WEEI WJAR WRC  
 WTAM WTIC

ED-11:45 p.m., E-10:45, C-9:45, M-8:45  
**C—Bing Crosby**  
 CFRB KDYL KFAB KFH KFJF  
 KFPY KLRA KLZ KMBC KOH  
 KRLD KSCJ KTRH KTBG KVOR  
 WAAB WABC WBCM WBSA WBRC  
 WCAO WCAU WCCO WDAE WDBJ  
 WDBO WDDO WDRC WDSU WFLB  
 WFBM WFEA WGST WHAS WHEC  
 WHK WHP WIBW WISN WKBW  
 WKBN WKBW WLAC WLWB WLWZ  
 WMAL WMBD WMT WNXO WNOX  
 WOKO WORC WPG WQAM WREC  
 WSBT WSFA WSPD WTAR WTOC  
 WXYZ

ED-12:05 a.m., E-11:05, C-10:05, M-9:05  
**R—Jack Pettis and Orchestra**  
 KSD KTHS WBNB WFAE WGY  
 WOAI WRC WSM WTIC WWJ  
 ED-12:30 a.m. E-11:30 C-10:30 M-9:30  
**B—Jones and Hare**, See Monday

**WEDNESDAY**

ED-8:00 a.m. E-7:00 C-6:00 M-5:00  
**R—Gene and Glenn**, See Monday

ED-8:30 a.m. E-7:30 C-6:30 M-5:30  
**R—Cheerio**, See Monday

ED-10:15 a.m. E-9:15 C-8:15 M-7:15  
**B—Clara Lu and Em**, See Monday

ED-12:00 p.m., E-11:00, C-10:00, M-9:00  
**R—G.E. Circle**, See Tuesday

ED-1:30 p.m., E-12:30, C-11:30, M-10:30  
**B—Farm and Home**, See Monday

ED-4:30 p.m., E-3:30, C-2:30, M-1:30  
**R—Ely Culbertson**, See Monday

ED-4:45 p.m., E-3:45, C-2:45, M-1:45  
**R—Lady Next Door**, See Monday

ED-5:15 p.m., E-4:15, C-3:15, M-2:15  
**R—Skippy**, See Monday

ED-5:30 p.m., E-4:30, C-3:30, M-2:30  
**R—Wayne King and Orchestra**  
 KFI KFYZ KGO KGW KHQ KOA  
 KOMO KSD KSL KSTP WBNB  
 WCAE WCHS WDAF WDAY WFAE  
 WFCB WENR WFBR WGY WHO  
 WIBA WJAR WLIT WOC WOW  
 WRC WSAI WTAG WTAM WTIC  
 WTMJ WWJ

ED-5:45 p.m., E-4:45, C-3:45, M-2:45  
**B—Orphan Annie**, See Monday

ED-6:00 p.m., E-5:00, C-4:00, M-3:00  
**C—Connie Boswell**  
 CFRB KDYL KFAB KFBC KFJF  
 KLRA KLZ KMBC KMOX KOH  
 KRLD KSCJ KTRH KVI WAAB  
 WABC WACO WBIG WBRB WBT  
 WCAO WCCO WDAE WDBJ WDBO  
 WDDO WDRC WDSU WFEA WFIW  
 WHP WIBW WIP WISN WKBW  
 WLAC WLAP WLWB WMAL WMT  
 WNOX WOKO WORC WOVO WQAM  
 WREC WSBT WSFA WTAG WTAR  
 WTOC WWVA KYOR

ED-6:30 p.m., E-5:30, C-4:30, M-3:30  
**B—Royal Vagabonds**, 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  
**C—Maxwell House**, See Monday  
**B—Esso Program, Robert Ripley**  
 KDKA KTBS WBAL WBZA WIS  
 WJZ WMC WPTF WRVA WSM  
 WSMB WNNC

ED-7:30 p.m., E-6:30, C-5:30, M-4:30  
**C—Easy Aces**, See Monday  
**B—Stebbins Boys**, See Monday

ED-7:45 p.m., E-6:45, C-5:45, M-4:45  
**R—Goldbergs**, See Monday  
**B—Jones and Hare**, See Monday

ED-8:00 p.m., E-7:00, C-6:00, M-5:00  
**C—Bath Club**, See Monday  
**R—Big Time**  
 KSD WBNB WCHS WFAE WEEI  
 WFBR WGY WHO WJAR WLIT  
 WLS WOC WOW WRC WSAI WTAM  
 WWJ

**B—Taxpayers' League**  
 KFSD KFYZ KGHL KGIR KGO  
 KGW KHQ KOA KOIL KOMO  
 KPRC KTAR KTBS KVOO KWK  
 WBAL WDAY WFLA WHAM WIBA  
 WIS WJDX WJZ WLS WLW WMC  
 WOAI WPTF WREN WNNC

ED-8:15 p.m., E-7:15, C-6:15, M-5:15  
**C—Singing Sam**, See Monday  
**B—Willys Overland Program**

KDKA KFSD KFYZ KGHL KGIR  
 KGO KGW KHQ KOA KOIL KOMO  
 KPRC KSL KSTP KTAR KTBS  
 KVOO KWOR KWK WAPI WBAL  
 WBZA WCKY WDAY WFCB WFAA  
 WGAR WHAM WHAS WIBA WJDX  
 WJR WJZ WKY WMAQ WMC WOAI  
 WREN WSB WSM WSMB WTMJ

ED-8:30 p.m., E-7:30, C-6:30, M-5:30  
**C—Kate Smith**, See Monday  
**R—Halsey Stuart Program**

KSD KSTP WBNB WCAE WCHS  
 WFAE WEEI WFBR WGY WHO  
 WJAR WLIT WMAQ WOC WOW  
 WRC WSAI WTAG WTAM WTMJ  
 WWJ

**B—Jack Frost Melody Moments**  
 KDKA WBAL WGAR WHAM WJR  
 WJZ WLS WLW

ED-8:45 p.m., E-7:45, C-6:45, M-5:45  
**C—Col. Stoopnagle**, See Monday

ED-9:00 p.m., E-8:00, C-7:00, M-6:00  
**C—Guy Lombardo and Orchestra**

KDYL KFJF KFPY KFRC KHJ  
 KLZ KMBC KMOX KOIN KOL  
 KRLD KTRH KTSB WABC WADC  
 WBBM WCAO WCAU WCCO WDRC  
 WEAN WFLB WFBM WHK WJAS  
 WKBW WKRC WMAL WNAC WOKO  
 WOVO WSPD WXYZ

**R—Goodyear, Grace Moore**  
 KFYZ KPRC KSD KSTP KTHS  
 KVOO KYW WBNB WCAE WCHS  
 WDAY WFAE WFCB WEEI WFAA  
 WFLB WFLA WGY WHAS WHO  
 WIBA WIOD WIS WJAR WJAX  
 WJDX WKY WLIT WMC WOAI  
 WOC WOW WRC WRVA WSAI  
 WBS WSM WSMB WTAG WTAM  
 WTMJ WWJ WNNC

**B—O. Henry Stories**  
 KDKA KWK WBAL WBAZ WGAR  
 WHAM WJR WJZ WLW WMAQ  
 WREN

ED-9:30 p.m., E-8:30, C-7:30, M-6:30  
**C—Eno Crime Club**, See Tuesday  
**R—Mobiloil Concert**

KFI KFYZ KGO KGW KHQ KOA  
 KOMO KPRC KSD KSL KSTP  
 KTAR KVOO WBNB WCAE WCHS  
 WDAF WDAY WFAE WFCB WEEI

WENR WFAA WFBR WFLA WGY  
 WHAS WHO WIBA WIOD WIS  
 WJAR WJDX WKY WLIT WMC  
 WOAI WOC WOW WRC WSAI WSB  
 WSM WSMB WTAG WTAM WTIC  
 WTMJ WWJ WNNC WJAX  
**B—Jack Benny**, See Monday

ED-10:00 p.m., E-9:00, C-8:00, M-7:00  
**C—Music That Satisfies, Ruth Etting**  
 KDB KDYL KERN KFBC KFH  
 KFJF KFPY KFRC KGB KHJ KLRA  
 KLZ KMBC KMJ KMOX KOH  
 KOIN KOL KOY KRLD KSCJ KTRH  
 KTSB KVI KWRB KWG WABC  
 WACO WADC WBBM WBCM WBIG  
 WBT WCAH WCAO WCAU WCCO  
 WDAE WDBJ WDBO WDRC WEAN  
 WFLB WFBM WFIW WGST WHEC  
 WHK WHP WIBW WISN WJAS  
 WKBW WKBW WKRC WLAP WLWB  
 WLWZ WMAL WMBD WMBG WMT  
 WNAC WNAX WOKO WORC WOVO  
 WPG WQAM WSPD WTAR WTOC  
 WXYZ

**R—Coca-Cola Program**

KFI KFSD KGO KGU KGW KHQ  
 KOA KOMO KPRC KSD KSL KSTP  
 KTAR WAPI WBAP WBNB WCAE  
 WCHS WDAF WFAE WFCB WEEI  
 WENR WFBR WFLA WGY WHAS  
 WHO WIOD WIS WJAR WJAX  
 WJDX WKY WLIT WMC WOAI  
 WOC WOW WRC WRVA WSAI  
 WSB WSM WSMB WTAG WTAM  
 WTIC WTMJ WWJ WNNC  
**B—San Felician**, See Monday

ED-10:15 p.m., E-9:15, C-8:15, M-7:15  
**C—Adventures in Health**

KMBC KMOX WAAB WABC WADC  
 WBBM WCAO WCAU WCCO WDRC  
 WEAN WFLB WHK WJAS WKBW  
 WKRC WMAL WOKO WOVO WSPD  
 WXYZ

ED-10:30 p.m., E-9:30, C-8:30, M-7:30  
**C—Society's Playboy**

CFRB CKAC KDB KDYL KERN  
 KFBC KFPY KFRC KGB KHJ KLZ  
 KMBC KMJ KMOX KOIN KOL  
 KRLD KTRH KVI KWG WAAB  
 WABC WADC WBBM WBT WCAO  
 WCAU WCCO WDRC WFLB WFBM  
 WGST WHK WJAS WKBW WKRC  
 WLAP WMAL WMT WOKO WOVO  
 WSPD WXYZ

**R—NBC Artists' Service Musicale**

KGO KOA KSD KSTP KTHS WBNB  
 WCAE WCHS WFAE WENR WHO  
 WIS WJAR WOAI WOC WOW WRC  
 WBS WSMB WTAG WTAM WWJ  
 WNNC WGY

**B—Waves of Melody**  
 KDKA KOIL WKCR KWK KYW  
 WBAL WBZA WCKY WGAR WHAM  
 WJR WJZ WREN

ED-10:45 p.m., E-9:45, C-8:45, M-7:45  
**C—Street Singer**

CFRB KLRA WAAB WABC WBIG  
 WBRB WBT WCAO WVA WDAE  
 WDBJ WDDO WDRC WDSU WEAN  
 WFLB WFEA WFIW WHEC WHP  
 WKBW WLAC WLWB WMAL WNOX  
 WOKO WORC WPG WQAM WREC  
 WTAR WTOC WADC  
**C—Myrt and Marge**, See Monday  
**B—Pickens Sisters**

KDKA KOIL WBAL WGAR WHAM  
 WJR WJZ

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

KSD WCHS WFAE WGY WJAR  
 WOW WRC WTAM WWJ

**B—Amos 'n' Andy**, See Monday

### Wednesday—Continued

ED-11:15 p.m., E-10:15, C-9:15, M-8:15  
 C—Maxwell House, See Monday  
 R—Vincent Lopez, See Monday  
 B—Rochester Civic Orchestra  
 KFYR KTBS KWCR WAPI WCKY  
 WFLA WGAR WHAM WIS WJZ  
 WJZ WREN WSM

ED-11:45 p.m., E-10:45, C-9:45, M-8:45  
 C—Don Redman and Orchestra  
 KDYL KFAB KFJF KPFP KLRA  
 KLZ KMBC KOH KOI KRLD KSCJ  
 KTRH KVOR WAAB WABC WADC  
 WBCM WBIG WBRC WBT WCAH  
 WCAO WCAU WCCO WDAE WDBJ  
 WDBO WDOD WDRC WDSU WFBM  
 WFEA WFIW WHEC WHP WISN  
 WKBH WKWB WLAC WLPW WLWB  
 WMAL WMBD WMT WNA3 WNOX  
 WOKO WORC WOWO WPG WQAM  
 WSBT WSPA WSPD WTAR WTOC  
 WXYZ

ED-12:00 m., E-11:00, C-10:00, M-9:00  
 B—Cab Calloway and Orchestra  
 KDKA KOIL WGAR WJZ WREN

ED-12:05 a.m., E-11:05, C-10:05, M-9:05  
 R—Buddy Rogers, See Monday

ED-12:30 a.m., E-11:30, C-10:30, M-9:30  
 B—Jones and Hare, See Monday

### THURSDAY

ED-8:00 a.m., E-7:00, C-6:00, M-5:00  
 R—Gene and Glenn, See Monday

ED-8:30 a.m., E-7:30, C-6:30, M-5:30  
 R—Cheerio, See Monday

ED-10:15 a.m., E-9:15, C-8:15, M-7:15  
 B—Clara Lu and Em, See Monday

ED-12:00 n., E-11:00, C-10:00, M-9:00  
 R—G.E. Circle, See Tuesday

ED-1:30 p.m., E-12:30, C-11:30, M-10:30  
 B—Farm and Home, See Monday

ED-4:45 p.m., E-3:45, C-2:45, M-1:45  
 R—Lady Next Door, See Monday

ED-5:15 p.m., E-4:15, C-3:15, M-2:15  
 R—Skippy, See Monday

ED-5:45 p.m., E-4:45, C-3:45, M-2:45  
 B—Orphan Annie, See Monday

ED-6:15 p.m., E-5:15, C-4:15, M-3:15  
 C—Reis and Dunn, See Tuesday

ED-6:30 p.m., E-5:30, C-4:30, M-3:30  
 C—Jack Miller, See Tuesday  
 R—World Today  
 KFSD KFYR KGHL KGIR KGO  
 KOA KOMO KSD WFAE WFAA  
 WFI WIBA WJAR WJAX WJDX  
 WMAQ WSAI WTIC WWJ WNNC

ED-6:45 p.m., E-5:45, C-4:45, M-3:45  
 C—Joe Palooka, See Tuesday  
 R—June Pursell, See Monday  
 B—Lowell Thomas, See Monday  
 B—Orphan Annie, 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-7:30 p.m., E-6:30, C-5:30, M-4:30  
 C—Richman Bros., See Tuesday  
 B—Stebbins Boys, See Monday

ED-7:45 p.m., E-6:45, C-5:45, M-4:45  
 R—Goldbergs, See Monday  
 B—Jones and Hare, See Monday

ED-8:00 p.m., E-7:00, C-6:00, M-5:00  
 C—Bath Club, See Monday  
 R—Fleischmann, Rudy Vallee  
 CFCE CKGW KFI KFSD KFYR  
 KGO KGW KHQ KOA KOMO KPRC  
 KSD KSL KSTP KTAR WAPI WBAP  
 WBN WCAE WCHS WDAF WDAY

WEAF WECB WEEI WFBR WFI  
 WFLA WGY WEAS WHO WIOD  
 WJAR WJAX WJDX WKY WMAQ  
 WMC WOAI WOC WOW WPTF  
 WRC WRVA WSAI WSB WSM  
 WSMB WTAG WTAM WTIC WWJ  
 B—Edgworth Program  
 KDKA KOIL KWK WBAL WBZA  
 WCKY WGAR WHAM WJZ WLS  
 WREN

ED-8:15 p.m., E-7:15, C-6:15, M-5:15  
 C—Abe Lyman, See Tuesday  
 B—Rin-Tin-Tin Thriller  
 KDKA KOIL KWK WGAR WHAM  
 WJZ WLS WLW WREN WBZA

ED-8:30 p.m., E-7:30, C-6:30, M-5:30  
 B—A. Rolfe and Orchestra  
 KDKA KOIL KWK WBZA WJZ  
 WLS WLW WREN

ED-8:45 p.m., E-7:45, C-6:45, M-5:45  
 C—Angelo Patri, See Sunday  
 B—Sisters of Skillet, See Tuesday

ED-9:00 p.m., E-8:00, C-7:00, M-6:00  
 R—Big Six of the Air  
 KFI KFSD KGHL KGIR KGO KGW  
 KHQ KOA KOMO KPRC KSD KSL  
 KSTP KTAR KTBS WBAP WBBN  
 WCAE WCHS WDAF WFAE WEEI  
 WFBW WFI WGY WIBA WJAR  
 WKY WMAQ WOAI WOC WOW  
 WRC WSAI WTAG WTAM WTIC  
 WTMJ WWJ WHO  
 B—Blackstone, Sanderson-Crumit  
 KDKA WBAL WBZA WCKY WHAM  
 WJZ

ED-9:15 p.m., E-8:15, C-7:15, M-6:15  
 C—Mills Brothers  
 KMBC KMOX WABC WADC WBBM  
 WCAO WCAU WDRC WEAN WFBL  
 WGR WHK WJAS WKRC WMAL  
 WNA3 WOKO WOWO WSPD

ED-9:30 p.m., E-8:30, C-7:30, M-6:30  
 C—Love Story Hour  
 KMBC KMOX WABC WADC WCAO  
 WCAU WDRC WEAN WFBL WGN  
 WHK WJAS WKRB WKRC WMAL  
 WNA3 WOWO WSPD WXYZ

B—Thompkins' Corners  
 KDKA KFI KFSD KGO KGW KHQ  
 KOA KOIL KOMO KPRC KSL  
 KSTP KTAR KWCR KWK KYW  
 WAPI WBAL WBAP WBZA WECB  
 WFLA WGAR WHAM WHAS WIOD  
 WJAX WJDX WJR WJZ WKY WLW  
 WMC WOAI WREN WRVA WSB  
 WSM WSMB WTMJ WNNC

R—Sherlock Holmes  
 CFCE CKGW KSD WBN WCAE  
 WCHS WDAF WFAE WEEI WENR  
 WFI WGY WHO WJAR WOC WOW  
 WRC WSAI WTAG WTAM WTIC  
 WWJ

ED-10:00 p.m., E-9:00, C-8:00, M-7:00  
 R—Lucky Strike, See Tuesday  
 B—A. & P. Dance Gypsies  
 KDKA KWK WBAL WBZA WGAR  
 WHAM WJR WJZ WLW WMAQ  
 WREN  
 C—Music Satisfies, See Wednesday

ED-10:15 p.m., E-9:15, C-8:15, M-7:15  
 C—Musical Fast Freight, See Tuesday

ED-10:30 p.m., E-9:30, C-8:30, M-7:30  
 B—Hollywood Nights  
 KDKA KOIL KWK KYW WBAL  
 WBZA WCKY WGAR WHAM WJR  
 WJZ WREN

ED-10:45 p.m., E-9:45, C-8:45, M-7:45  
 C—Arthur Jarrett, See Monday  
 C—Myrt and Marge, See Monday  
 B—Pickens Sisters, See Wednesday

ED-11:00 p.m., E-10:00, C-9:00, M-8:00  
 C—Joe Palooka, See Tuesday  
 R—Russ Columbo, See Monday  
 B—Amos 'n' Andy, See Monday

ED-11:15 p.m., E-10:15, C-9:15, M-8:15  
 C—Howard Barlow, See Tuesday  
 R—Harry Reser and Orchestra  
 KSD WBN WCKY WDAF WFAE  
 WENR WFBR WFI WHO WJAR  
 WOC WRC WTIC

ED-11:30 p.m., E-10:30, C-9:30, M-8:30  
 B—Hal Kemp's Orchestra  
 KDKA KFYR KOIL KTBS KWCR  
 WBAL WENR WHAM WJR WJZ  
 WSB WSM

ED-11:45 p.m., E-10:45, C-9:45, M-8:45  
 C—Noble Sissle, See Monday

ED-12:00 m., E-11:00, C-10:00, M-9:00  
 C—Don Redman, See Monday

ED-12:05 a.m., E-11:05, C-10:05, M-9:05  
 R—Jack Pettis, See Tuesday

ED-12:30 a.m., E-11:30, C-10:30, M-9:30  
 B—Jones and Hare, See Monday

### FRIDAY

ED-8:00 a.m., E-7:00, C-6:00, M-5:00  
 R—Gene and Glenn, See Monday

ED-8:30 a.m., E-7:30, C-6:30, M-5:30  
 R—Cheerio, See Monday

ED-10:15 a.m., E-9:15, C-8:15, M-7:15  
 B—Clara, Lu and Em, See Monday

ED-12:00 n., E-11:00, C-10:00, M-9:00  
 R—G.E. Circle, See Tuesday

ED-1:30 p.m., E-12:30, C-11:30, M-10:30  
 B—Farm and Home, See Monday

ED-4:45 p.m., E-3:45, C-2:45, M-1:45  
 R—Lady Next Door, See Monday

ED-5:15 p.m., E-4:15, C-3:15, M-2:15  
 R—Skippy, See Monday

ED-5:45 p.m., E-4:45, C-3:45, M-2:45  
 B—Orphan Annie, See Monday

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

ED-6:30 p.m., E-5:30, C-4:30, M-3:30  
 B—Royal Vagabonds, See Monday  
 C—Snooks Friedman and Orchestra  
 CFRB KDYL KFAB KFH KFJF  
 KLRA KLZ KMBC KOH KSCJ  
 KTRH KTSA KVOR WAAB WABC  
 WBIG WBRC WCAH WCAO WDBJ  
 WDBO WDOD WDRC WDSU WFEA  
 WGR WGST WHAS WHEC WHP  
 WISN WKBH WLAC WLWB WLWB  
 WMAL WMT WNOX WOKO WOC  
 WQAM WRC WSBT WSPA WTAR  
 WTAR WTOC WXYZ

ED-6:45 p.m., E-5:45, C-4:45, M-3:45  
 Vaughn DeLeath, See Monday  
 B—Lowell Thomas, See Monday  
 B—Orphan Annie, See Monday  
 R—Larry Funk and Orchestra  
 KGO KOA WCAE WCHS WFAE  
 WFI WRC WTAG WWJ

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  
 C—Maxwell House, See Monday  
 B—Robt. Ripley, See Wednesday

ED-7:30 p.m., E-6:30, C-5:30, M-4:30  
 C—Easy Aces, See Monday  
 B—Stebbins Boys, See Monday

ED-7:45 p.m., E-6:45, C-5:45, M-4:45  
 R—Goldbergs, See Monday  
 B—Jones and Hare, See Monday

**Friday—Continued**

ED-8:00 p.m., E-7:00, C-6:00, M-5:00  
 C—Bath Club, See Monday  
 R—Cities Service Concert  
 CKGW KFI KGO KGW KHQ KOA  
 KOMO KPRC KSD KSL KSTP  
 KTBS KTBS KYW WBN WCAE  
 WCHS WDAF WFAF WFCB WEEI  
 WFAA WFBR WGY WHO WJAR  
 WKY WLIT WOI WOC WOW  
 WRC WSAI WTAG WTAM WTC  
 WTMJ WJW  
 B—Nestle's Program  
 KDKA KOIL KWK WBAL WBZA  
 WCKY WGAR WHAM WJZ WLS  
 WREN

ED-8:15 p.m., E-7:15, C-6:15, M-5:15  
 C—Singing Sam, See Monday

ED-8:30 p.m., E-7:30, C-6:30, M-5:30  
 C—Today and Yesterday  
 KFJF KMBC KMOX KTRH WABC  
 WADC WBT WCAO WCAU WCCO  
 WDRG WEAN WFBL WGN WGR  
 WGST WHK WJAS WKBC WMAL  
 WNAC WOKO WOWO WREC WRR  
 WSPD WXYZ

B—B. A. Rolfe, See Thursday  
 ED-8:45 p.m., E-7:45, C-6:45, M-5:45  
 B—Sisters of Skillet, See Tuesday

ED-9:00 p.m., E-8:00, C-7:00, M-6:00  
 C—Kodak Week-End Hour  
 KLZ KMBC KMOX WABC WADC  
 WCAO WCAU WCCO WDRG WEAN  
 WFBL WFBM WGN WHEC WHK  
 WJAS WKWB WKRC WMAL WNAC  
 WOKO WSPD WXYZ  
 R—Clicquot Club

KSD WBEN WCAE WCHS WDAF  
 WFAF WEEI WFSB WGY WHO  
 WJAR WLIT WLC WOC WOW WRC  
 WSAI WTAG WTC WJW

B—Friendship Town  
 CFCE CKGW KDKA KFI KFSL  
 KFYY KGO KGW KHQ KOA KOIL  
 KOMO KPRC KSL KSTP KTAR  
 KTBS KWK KYW WAPI WBAL  
 WBZA WDAY WDBC WFLA WGAR  
 WHAM WHAS WIBA WIOD WJZ  
 WJAX WJDX WJR WJZ WKY WMC  
 WOAI WREN WRVA WSB WSM  
 WSMB WTMJ WWNC

ED-9:30 p.m., E-8:30, C-7:30, M-6:30  
 C—To the Ladies, Tito Guizar  
 KMBC KMOX KRLD WABC WADC  
 WCAO WCAU WCCO WDRG WEAN  
 WFBL WFBM WGN WHK WJAS  
 WKWB WKRC WMAL WNAC WOKO  
 WOWO WSPD WXYZ

R—Pond's Program  
 KSD WBEN WCAE WCHS WDAF  
 WFAF WENR WFBR WGY WHO  
 WJAR WLIT WOC WOW WRC  
 WSAI WTAG WTAM

B—Armour Program  
 KDKA KFI KGO KGW KHQ KOA  
 KOMO KPRC KSL KSTP WAPI  
 WBAL WBZA WECB WFAA WGAR  
 WHAM WHAS WIOD WJAX WJZ  
 WKY WMAQ WMC WOAI WRVA  
 WSB WSM WSMB WWNC

ED-9:45 p.m., E-8:45, C-7:45, M-6:45  
 C—Van Heusen, Gus Van  
 KMBC KMOX KRLD WABC WADC  
 WCAO WCAU WDRG WEAN WFBL  
 WFBM WGN WHK WJAS WKWB  
 WKRC WMAL WNAC WOKO WSPD  
 WXYZ

ED-10:00 p.m., E-9:00, C-8:00, M-7:00  
 C—Beau Bachelor  
 KDB KDYL KERN KFBK KFJF

KFPY KHJ KLZ KMJ KMOX KOIN  
 KOL KRLD KWG WAAB WABC  
 WADC WBBM WBT WCAO WCAU  
 WCCO WDRG WEAN WFBL WHK  
 WJAS WKWB WKRC WMAL WOKO  
 WOWO WREC WSPD WXYZ KFCR  
 B—Paul Whiteman's Chieftains  
 KDKA KFI KFSL KFYY KGHL  
 KGR KGO KGW KHQ KOA KOIL  
 KOMO KPRC KSL KSTP KTAR  
 KVOO KWK WBAL WBAF WBZA  
 WCKY WDAY WECB WENR WFLA  
 WGAR WHAM WHAS WIBA WIOD  
 WIS WJAX WJDX WJR WJZ WKY  
 WMC WOAI WPTF WREN WRVA  
 WSB WSM WSMB WTMJ WWNC

R—National Oratorio  
 KFSD KFYY KGO KGW KOA  
 KOMO KSD KSL KTAR KTBS  
 KTBS WBEN WCHS WDAY WFAF  
 WEEI WENR WFBR WFLA WGY  
 WIBA WIOD WJAR WJAX WJDX  
 WKY WLIT WMC WOAI WOW  
 WRC WRVA WSAI WSB WSMB  
 WTAG WTAM WTMJ WJW

ED-10:15 p.m., E-9:15, C-8:15, M-7:15  
 C—Adventures in Health, See Wed.

ED-10:30 p.m., E-9:30, C-8:30, M-7:30  
 C—Music That Satisfies, See Monday  
 B—Frank Munn, See Monday

ED-10:45 p.m., E-9:45, C-8:45, M-7:45  
 C—Myrt and Marge, See Monday  
 C—Funnyboners, See Tuesday  
 B—Pickens Sisters, See Wednesday

ED-11:00 p.m., E-10:00, C-9:00, M-8:00  
 R—Russ Columbo, See Monday  
 B—Amos 'n' Andy, See Monday

ED-11:15 p.m., E-10:15, C-9:15, M-8:15  
 C—Maxwell House, See Monday  
 R—Vincent Lopez, See Monday

ED-11:30 p.m., E-10:30, C-9:30, M-8:30  
 B—Harry Rorer and Orchestra  
 CFCE CKGW KDKA KFYY KOA  
 KSTP KTBS KWCR WBAL WECB  
 WENR WIBA WIS WJR WJZ WLW  
 WRC WREN

ED-11:45 p.m., E-10:45, C-9:45, M-8:45  
 C—Don Redman and Orchestra  
 KDYL KFAB KFJF KFPY KHJ  
 KLRA KLZ KMBC KOH KOL KRLD  
 KSCJ KTRH KTSa KVOR WAAB  
 WABC WACO WBCM WDAE WBRB  
 WCAO WCAU WCCO WDAE WDBJ  
 WDBO WDOB WDRG WDSU WEAN  
 WFBL WFBM WFEA WFIW WGST  
 WHAS WHEC WHP WISN WKBH  
 WKWB WLAC WLWB WLWB WMAL  
 WMBD WMT WNAX WNOX WODX  
 WOKO WORC WPG WQAM WREC  
 WSBT WSPD WTAR WTOC WXYZ

ED-12:00 p.m., E-11:00, C-10:00, M-9:00  
 C—Gus Arnheim and Orchestra  
 KDYL KFAB KFH KFJF KFPY

KHJ KLRA KLZ KMBC KOH KOL  
 KSCJ KTRH KTSa KVOR WABC  
 WACO WBCM WBRB WCAH WCAO  
 WCAU WCCO WDAE WDBJ WDBO  
 WDOB WDSU WEAN WFBM WFEA  
 WFIW WGST WHAS WHEC WHP  
 WIBW WISN WKBH WKWB WLAC  
 WLWB WMBD WMT WNAC WNAX  
 WNOX WODX WOKO WPG WQAM  
 WREC WSBT WSPD WTAR WTOC  
 WXYZ

B—Cab Calloway, See Wednesday  
 ED-12:05 a.m., E-11:05, C-10:05, M-9:05  
 R—Jack Pettis, See Tuesday

ED-12:30 a.m., E-11:30, C-10:30, M-9:30  
 B—Jones and Hare, See Monday

**SATURDAY**

ED-8:00 a.m., E-7:00, C-6:00, M-5:00  
 R—Gene and Glenn, See Monday  
 ED-8:30 a.m., E-7:30, C-6:30, M-5:30  
 R—Cherio, See Monday

ED-1:30 p.m., E-12:30, C-11:30, M-10:30  
 B—Farm and Home, See Monday

ED-4:45 p.m., E-3:45, C-2:45, M-1:45  
 R—Lady Next Door, See Monday

ED-5:15 p.m., E-4:15, C-3:15, M-2:15  
 R—Skippy, See Monday

ED-5:45 p.m., E-4:45, C-3:45, M-2:45  
 B—Orphan Annie, See Monday

ED-6:30 p.m., E-5:30, C-4:30, M-3:30  
 C—Jack Miller, See Tuesday

ED-6:45 p.m., E-5:45, C-4:45, M-3:45  
 R—June Pursell, See Monday  
 B—Orphan Annie, See Monday

ED-7:00 p.m., E-6:00, C-5:00, M-4:00  
 C—Political Situation, Wile

KFAB KFJF KFJF KLZ KOH KOL  
 KRLD KSCJ KTRH KVI KVOR  
 WABC WACO WADC WBCM WBCM  
 WBIG WBRB WCAO WCAU WCCO  
 WDAE WDBJ WDOB WDOB WDRG  
 WDSU WEAN WFIW WGR WHP  
 WIBW WISN WLAC WLAP WLWB  
 WMAL WMT WNAC WNOX WOKO  
 WOWO WQAM WREC WSAI WTAQ  
 WTAR WTOC WWVA  
 B—Amos 'n' Andy, See Monday

ED-7:15 p.m., E-6:15, C-5:15, M-4:15  
 C—Wm. Vincent Hall, Baritone

CFRB KFAB KFBK KFH KFJF  
 KOH KOL KRLD KSCJ KTRH  
 KVI KVOR WABC WACO WADC  
 WBCM WBIG WBRB WBT WCAO  
 WCAU WCCO WDAE WDBJ WDBO  
 WDOB WDRG WDSU WEAN WFBL  
 WFIW WGR WHEC WHP WIBW  
 WISN WLAC WLAP WLWB WMAL  
 WMT WNAC WNOX WOKO WORC  
 WQAM WREC WSAI WTAQ WTOC  
 WWVA

R—Laws That Safeguard Society  
 KECA KEX KFSD KFYY KGA KJR  
 KOA KPO KPRC KTAR KTBS  
 WAPI WBEN WCHS WDAY WFAF  
 WECB WENR WFI WFLA WGY  
 WHO WIOD WJAR WJDX WOC  
 WOW WPTF WRVA WSAI WTAG  
 WTC

B—Tastyest Jesters, See Monday

ED-7:30 p.m., E-6:30, C-5:30, M-4:30  
 C—Do Re Me, Female Trio  
 CFRB KFAB KFBK KFH KFJF  
 KFPY KHJ KMBC KMOX KOH  
 KOH KOY KRLD KSCJ KTRH  
 KVI KVOR WABC WACO WBCM  
 WBIG WBRB WCAO WCAU WCCO  
 WDAE WDBJ WDOB WDOB WDRG  
 WDSU WEAN WFBL WFBM WFEA  
 WFIW WGR WGST WHAS WHP  
 WISN WJAS WLAC WLWB WLWB  
 WMAL WMT WNOX WOKO WORC  
 WQAM WREC WRUF WSBT WSAI  
 WSPD WTAQ WTAR WTOC WWVA  
 WXYZ

ED-7:45 p.m., E-6:45, C-5:45, M-4:45  
 R—Goldbergs, See Monday

ED-8:00 p.m., E-7:00, C-6:00, M-5:00  
 C—Fray and Braggiotti, Piano  
 CFRB KDYL KFAB KFBK KFH  
 KFJF KFPY KLRA KLZ KMBC  
 KMOX KOH KSCJ KTRH KVI  
 KVOR WAAB WABC WADC WBCM  
 WBIG WBRB WBT WCAH WCAU  
 WCCO WDAE WDBJ WDOB WDOB  
 WDRG WDSU WEAN WFBL WFBM

**Saturday—Continued**

WFEA WHEC WHK WHP WLBW  
WISN WKWB WLAC WLAP WLWB  
WMAL WMT WNAX WNOX WOKO  
WORC WOWO WQAM WREC WSBT  
WSFA WSPD WTAQ WTAR WTOC  
WVVA WXYZ

**R—Ely Culbertson, Bridge**  
CFCE CKGW KSD WBEN WCSH  
WDAF WFAE WEEL WFBR WFI  
WGY WHO WJAR WMAQ WOC  
WOW WRC WSAI WTAG WTAM  
WTIC WWJ

**B—Danger Fighters, Drama**  
KDKA KFI KFSD KFJR KGO KGW  
KOA KOIL KOMO KPRC KSL KSTP  
KTAR KWK WBAI WBAP WCKY  
WDAY WEBC WGAR WHAM WIBA  
WJR WJZ WKY WLS WOAI WREN  
WTMJ

**ED-8:15 p.m., E-7:15, C-6:15, M-5:15**  
**C—Abe Lyman, See Tuesday**

**R—Civic Concerts Program**  
KSD WCAE WCSH WDAF WFAE  
WEEL WFBR WFI WHO WIOD WIS  
WJAR WJAX WMAQ WOC WOW  
WRC WTIC WWJ WNNC

**ED-8:30 p.m., E-7:30, C-6:30, M-5:30**  
**C—Photoplay's Movie Stars**

KMBC KMOX WABC WCAO WCAU  
WFBL WGN WGR WHK WJAS  
WKRC WMAL WNAC WSPD WXYZ

**B—Dance with Countess D'Orsay**  
CFCE CKGW KDKA KWK WBAL  
WBZA WGAR WHAM WJZ WLW  
WMAQ WREN

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

CFRB KFAB KFBK KFH KFJF  
KFPY KLRA KMBC KMOX KOH  
KOL KSCJ KTRH KVI KVOR WAAB  
WABC WADC WBCM WBIG WBRG  
WBT WCAH WCAU WCCO WDAE  
WDBJ WDBO WDOD WDRC WDSU  
WEAN WFBL WFBM WFEA WHEC  
WHK WHP WIBW WISN WKWB  
WLAC WLAP WLWB WMAL WMT  
WNAX WNOX WOKO WORC WOWO  
WPG WQAM WREC WSBT WSFA  
WSPD WTAQ WTAR WTOC WVVA  
WXYZ

**R—K-7, Drama**  
CFCE CKGW KFJR KGHL KGIR  
KGO KGW KOA KOMO KPRC KSD  
KSL KSTP KTAR KTBS KYW  
WAPI WBEN WCAE WCSH WDAF  
WEAF WBEA WEEL WFBR WFLA  
WGY WHO WIBA WIS WJAR WKY  
WMC WOC WOW WPTF WRC  
WSAI WSB WSM WSMB WTAG  
WTAM WTIC WTMJ WWJ WNNC

**ED-9:30 p.m., E-8:30, C-7:30, M-6:30**  
**C—U.S. Army Band**

CFRB KDYL KFBK KFJF KFPY  
KLZ KOY KSCJ KTRH KVI KVOR  
WAAB WABC WBBM WBCM WBIG  
WBRG WCAH WCAU WDAE WDBO  
WDOD WDRC WDSU WEAN WFBL  
WFBM WFEA WFIW WGST WHAS  
WHEC WHK WHP WISN WJAS  
WKWB WLAC WLWB WLWB WMAL  
WMT WNOX WOKO WORC WQAM  
WREC WSFA WSPD WTAQ WTAR  
WTOC WVVA WXYZ

**R—Club Valspar**  
CFCE CKGW KSD WBAP WBEN  
WCAE WCSH WDAF WFAE WEEL  
WFBR WFI WGY WHO WJAR  
WMAQ QOC WOW WRC WSAI WSB  
WSMB WTAG WTAM WTIC WWJ

**B—First Nighter, Drama**  
KDKA KFI KFSD KGO KGW KHQ  
KOA KOIL KOMO KSL KSTP KTAR  
KWK WBAI WBZA WEBC WGAR  
WHAM WJR WJZ WLS WREN  
WTMJ

**ED-10:00 p.m., E-9:00, C-8:00, M-7:00**  
**C—Ruth Etting, See Wednesday**  
**R—Lucky Strike, See Tuesday**

**ED-10:15 p.m., E-9:15, C-8:15, M-7:15**  
**C—Public Affairs Institute**

KDYL KFBK KFH KFJF KFPY  
KLRA KLZ KMBC KMOX KOH KOL  
KSCJ KTRH KVI KVOR WAAB  
WABC WACO WADC WBCM WBIG  
WBT WCAH WCAU WCCO WDDO  
WDAE WDBJ WDBO WDOD WDSU  
WEAN WFBL WFBM WFIW WGL  
WHEC WHK WHP WIBW WKWB  
WLAC WLAP WLWB WMAL WMBD  
WMT WNAX WOKO WORC WQAM  
WSPD WTAQ WTAR WTOC WXYZ

**B—Snoop and Peep**  
CFCE CKGW KOIL KWK WGAR  
WHAM WJR WJZ WREN

**ED-10:30 p.m., E-9:30, C-8:30, M-7:30**  
**B—Twenty Fingers of Harmony**

CFCE KDKA KOIL KWCR KWK  
WBAL WBZA WCKY WGAR WHAM  
WJR WJZ WREN

**ED-10:45 p.m., E-9:45, C-8:45, M-7:45**  
**C—Street Singer, See Wednesday**  
**B—McCravy Bros., See Monday**

**ED-11:00 p.m., E-10:00, C-9:00, M-8:00**  
**C—Don Redman and Orchestra**

CFRB KDYL KFAB KFBK KFH  
KFJF KFPY KLRA KLZ KMBC  
KMOX KOH KOL KSCJ KTRH  
KVOR WAAB WABC WACO WADC  
WBCM WBIG WBRG WBT WCAH  
WCAO WCCO WDAE WDBJ WDBO  
WDOD WDRC WDSU WFBL WFBM  
WFEA WFIW WGL WGR WHEC  
WHK WHP WIBW WIP WKWB  
WLAC WLAP WLWB WMBD WMT  
WNAX WOKO WORC WQAM WREC  
WSBT WSPD WTAQ WTOC WVVA  
WXYZ WNOX

**R—Russ Columbo, See Monday**  
**B—Amos 'n' Andy, See Monday**

**ED-11:30 p.m., E-10:30, C-9:30, M-8:30**  
**R—Jack Pettis and Orchestra**

KSD WCKY WFAE WEEL WFI  
WGY WIBA WJAR WRC WTAM  
WTIC WWJ

**B—HARRY RESER, See Friday**

**ED-11:45 p.m., E-10:45, C-9:45, M-8:45**  
**C—Enric Madriguera's Orchestra**

CFRB KDYL KFAB KFBK KFH  
KFJF KFPY KLRA KLZ KMBC KOH  
KOL KRLD KSCJ KTRH  
KVOR WAAB WABC WADC WBCM  
WBDG WBRG WCAH WCAO WCCO  
WDAE WDBJ WDBO WDOD WDRC  
WDSU WFBM WFIW WGL WHEC  
WHP WFEA WFNW WKWB WLAC  
WLAP WLWB WMBD WMT WNAX  
WNOX WOKO WORC WQAM WRC  
WREC WSBT WSPD WTAQ WTOC  
WVVA WXYZ

**ED-12:00 m., E-11:00, C-10:00, M-9:00**  
**C—Paul Specht and Orchestra**

KDYL KFAB KFBK KFJF KFPY  
KLRA KLZ KMBC KOH KOIN KOL  
KRLD KSCJ KTRH KVOR WABC  
WADC WBCM WBRG WBT WCAH  
WCAO WCAU WCCO WDAE WDBO  
WDOD WDSU WEAN WFBL WFBM  
WFEA WFIW WGL WHEC WHP  
WIBW WISN WKWB WLAC WLAP

WLWB WMBD WMT WNAC WNBX  
WNOX WOKO WQAM WREC WSPD  
WSPD WTOC WVVA WXYZ

**ED-12:05 a.m., E-11:05, C-10:05, M-9:05**  
**R—Buddy Rogers, See Monday**

**SUNDAY**

**ED-11:30 a.m., E-10:30, C-9:30, M-8:30**  
**R—Major Bowes' Family**

KEX KFJR KGA KJR KOA KPO  
KPRC KSTP WCSH WDAF WFAE  
WENR WFBR WHAS WHO WJAR  
WKY WMC WOC WPTF WRC  
WSM WSMB WTAM WTIC WNNC

**ED-12:00 n., E-11:00, C-10:00, M-9:00**  
**B—Careless Love, Negro Drama**

KOL KWCR KWK WCKY WHAM  
WJZ WREN

**ED-12:30 p.m., E-11:30, C-10:30, M-9:30**  
**C—International Broadcast**

CFRB KDYL KFAB KFBK KLRA  
KLZ KMBC KMOX KOIN KOL  
KRLD KSCJ KTRH KVI KVOR  
WAAB WABC WBRG WCAH WCAU  
WCCO WDAE WDBO WDOD WDRC  
WDSU WEAN WFBL WFEA WFIW  
WGR WHP WIBW WISN WKWB  
WLAP WLWB WMAL WMBD WMT  
WOKO WORC WPG WQAM WREC  
WSBT WSFA WSPD WVVA WXYZ

**R—Silver Flute**  
CKGW WBEN WCSH WDAF WFAE  
WFI WGY WHO WJAR WOC WTAG  
WTAM WTIC

**ED-12:45 p.m., E-11:45, C-10:45, M-9:45**  
**C—Street Singer**

CFRB KDYL KFAB KFBK KLRA  
KLZ KMBC KMOX KOIN KOL  
KRLD KSCJ KTRH KVI KVOR  
WAAB WABC WBRG WCAH WCAU  
WCCO WDAE WDBO WDOD WDRC  
WDSU WEAN WFBL WFEA WFIW  
WGR WHP WIBW WISN WKWB  
WLAP WLWB WMAL WMBD WMT  
WNOX WOKO WORC WPG WQAM  
WSBT WSFA WSPD WTOC WVVA  
WXYZ

**ED-1:00 p.m., E-12:00, C-11:00, M-10:00**  
**C—Builders of America**

KDYL KFAB KFBK KFJF KFPY  
KLZ KMBC KMOX KOH KOL  
KSCJ KTA KVI KVOR WAAB WABC  
WBCM WCAU WCCO WDAE WDBJ  
WDBO WFBL WGR WHAS WHEC  
WHK WHP WIBW WISN WJAS  
WKWB WKBN WLWB WMAL WMT  
WNAX WOKO WPG WQAM WXYZ  
WSPD WTAQ WTAR WVVA WXYZ

**ED-1:30 p.m., E-12:30, C-11:30, M-10:30**  
**R—Pop Concert, Walter Logan**

KFI KFSD KFJR KGO KGW KOA  
KPRC KSD KSL KSTP KTAR KVOO  
KYW WBEN WCAE WCSH WDAF  
WDAY WFAE WEEL WFAA WFBR  
WFI WFLA WGY WIOD WIS WJAR  
WJAX WKY WLIT WMC WOW  
WRC WRVA WSAI WSB WSM  
WTAG WTAM WTIC WWJ

**ED-2:00 p.m., E-1:00, C-12:00, M-11:00**  
**C—Eight Sons of Eli**

KFAB KMBC KMOX KRLD WABC  
WADC WBBM WBRG WBT WCAO  
WCAU WCCO WDRC WDSU WEAN  
WGR WHK WJAS WKRC WLAC  
WMAL WNAC WOKO WOWO

**ED-2:30 p.m., E-1:30, C-12:30, M-11:30**  
**C—Church of the Air**

CFRB KDYL KFBK KFPY KGB  
KLZ KMOX KOH KOL KSCJ KTRH  
KVI KVOR WAAB WABC WACO



**Sunday—Continued**

WADC WBCM WBT WCAO WCCO  
 WDBJ WDBO WDOD WDRC WDSU  
 WFBL WGL WHEC WHP WIBW  
 WKBH WKBN WKBW WLAC WLAP  
 WLWB WMAL WMT WNOX WOKO  
 WORC WPG WQAM WREC WTAQ  
 WTAR WTOC WXYZ

**R — Moonshine and Honeysuckle**  
 WCAE WKCY WCSH WDAF WFAF  
 WEEL WFBR WGY WJAR WMAQ  
 WRC WTAG WTAM WVIC WWJ

**B — Yeast Foamers**  
 KDKA KFI KFSD KFYR KGHL  
 KGIR KGO KGW KHQ KOA KOIL  
 KPRC KSL KSTP KTAR KTHS  
 KVOO KWK KYW WAPI WBAL  
 WBZA WDAY WEBC WFAA WFLA  
 WGAR WHAM WHAS WIBA WIOD  
 WIS WJAX WJDX WJR WJZ WKY  
 WLW WMC WOAI WPTF WREN  
 WRVA WSB WSM WSMB WTMJ  
 WWNC

**ED-3:00 p.m., E-2:00, C-1:00, M-12:00**  
**R — Wayne King and Orchestra**  
 KSD KYW WBN WCAE WCSH  
 WDAF WFAF WEEL WFBR WGY  
 WHO WJAR WLIT WOC WOV WRC  
 WSAI WTAG WTAM WVIC WWJ

**B — Friendly Hour**  
 CKGW KFSD KFYR KGHL KGIR  
 KGO KGW KHQ KOA KOMO KPRC  
 KSL KTHS KTHS KVOO KWCR  
 KWK WAPI WBAL WCKY WDAY  
 WEBC WFAA WFLA WGAR WHAM  
 WIOD WIS WJAX WJDX WJZ WKY  
 WMAQ WMC WOAI WPTF WREN  
 WRVA WSB WSM WSMB WWNC

**ED-3:15 p.m., E-2:15, C-1:15, M-12:15**  
**C — Symphonic Hour**  
 CFRB KDYL KFAB KFBK KFJF  
 KFYR KGB KHLA KLZ KMBC  
 KMOX KOH KOL KSCJ KTRH KVI  
 KFOR WAAB WABC WADC WBCM  
 WBRB WBT WCAH WCAO WCAU  
 WCCO WDAE WDBJ WDOD WDRC  
 WDSU WEAN WFBL WFBM WFEA  
 WGL WGR WHP WIBW WKBH  
 WKBN WLAC WLWB WLWB WMBD  
 WMT WNOX WOKO WORC WOWO  
 WQAM WREC WSFA WSPD WTAQ  
 WTAR WTOC WWVA WXYZ

**B — Sabbath Reveries**  
 KFSD KFYR KGIR KGO KHQ  
 KOMO KPRC KSTP KTAR KTHS  
 KTHS KVOO KWK WBAL WBZA  
 WCKY WDAY WEBC WENR WFAA  
 WFLA WGAR WHAM WIBA WIOD  
 WIS WJDX WJZ WOAI WPTF WREN  
 WRVA WSB WSM WWNC

**ED-3:30 p.m., E-2:30, C-1:30, M-12:30**  
**R — National Sunday Forum**  
 KFSD KFYR KGHL KGIR KGO  
 KGW KHQ KOA KPRC KSD KSL  
 KSTP KTAR KTHS KVOO KYW  
 WBN WCAE WCSH WDAF WDAY  
 WFAF WEBC WEEL WFAA WFBR  
 WFLA WIBA WIOD WIS WJAR  
 WJAX WJDX WKY WOAI WOW  
 WPTF WRC WRVA WSAI WSM  
 WSMB WTAG WTAM WVIC WWJ  
 WWNC

**C — Cathedral Hour**  
 CFRB KDYL KFAB KFBK KFYR  
 KLZ KMBC KOH KOIN KOL KSCJ  
 KFOR WAAB WABC WADC WBCM  
 WCAO WCCO WDAE WDBJ WDBO  
 WDOD WDRC WFBL WGR WHEC  
 WHP WIBW WKBH WKBN WLAC  
 WLAP WLWB WMAL WMBD WMT  
 WNOX WOKO WPG WQAM WSBT  
 WSPD WTAQ WTAR WTOC WWVA  
 WXYZ

**ED-4:00 p.m., E-3:00, C-2:00, M-1:00**  
**R — Iodent, Jane Froman**  
 KFI KFSD KFYR KGHL KGIR KGO  
 KGW KHQ KOA KOMO KPRC KSD

KSTP KTAR KTHS KTHS KVOO  
 KYW WAPI WBAP WBN WCAE  
 WCSH WDAF WDAY WFAF WEBC  
 WEEL WFBR WFLA WGY WHAS  
 WHO WIBA WIOD WIS WJAR WJAX  
 WJDX WKY WMC WOAI WOC  
 WOW WPTF WRC WRVA WSAI  
 WSB WSM WSMB WTAG WTAM  
 WVIC WTMJ WWJ WWNC

**B — Songs of Home Sweet Home**  
 KDKA KOIL KWCR KWK WBAL  
 WBZA WGAR WHAM WJR WJZ  
 WLS WREN

**ED-4:15 p.m., E-3:15, C-2:15, M-1:15**  
**R — John Fogarty, Tenor**  
 KFYR KOA KOMO KPO KSD KSTP  
 KTHS WBN WCAE WDAF WFAF  
 WEEL WFLA WGY WJAR WKY  
 WSAI WSM WTAG WTAM WVIC  
 WWJ

**ED-4:30 p.m., E-3:30, C-2:30, M-1:30**  
**R — International Broadcast**  
 KSD WBN WCAE WCSH WFAF  
 WEEL WFBR WFLA WGY  
 WHO WIOD WJAR WOC WPTF  
 WRC WTAM WVIC WWNC

**B — Piccadilly Circus**  
 CFCE CKGW KDKA KFI KFSD  
 KFYR KGHL KGIR KGO KGW  
 KHQ KOA KOL KOMO KPRC KSL  
 KSTP KTAR KTHS KVOO KWK  
 WAPI WBAL WBZA WCKY WDAY  
 WEBC WENR WFAA WGAR WIBA  
 WJDX WJR WJZ WKY WMC WOAI  
 WREN WSB WSM WSMB WTMJ

**ED-5:00 p.m., E-4:00, C-3:00, M-2:00**  
**C — Pastoral**  
 CFRB KDYL KFAB KFBK KFJF  
 KFYR KGB KHLA KLZ KMBC  
 KMOX KOH KOL KSCJ KTRH KVI  
 KFOR WAAB WABC WADC WBCM  
 WBRB WBT WCAH WCAO WCAU  
 WCCO WDAE WDBJ WDOD WDRC  
 WDSU WEAN WFBL WFBM WFEA  
 WGL WGR WHP WIBW WKBH  
 WKBN WLAC WLWB WLWB WMBD  
 WMT WNOX WOKO WORC WOWO  
 WQAM WREC WSFA WSPD WTAQ  
 WTAR WTOC WWVA WXYZ

**B — Sabbath Reveries**  
 KFSD KFYR KGIR KGO KHQ  
 KOMO KPRC KSTP KTAR KTHS  
 KTHS KVOO KWK WBAL WBZA  
 WCKY WDAY WEBC WENR WFAA  
 WFLA WGAR WHAM WIBA WIOD  
 WIS WJDX WJZ WOAI WPTF WREN  
 WRVA WSB WSM WWNC

**ED-5:30 p.m., E-4:30, C-3:30, M-2:30**  
**C — Blue Coal Revue**  
 CFRB WAAB WABC WCAO WCAU  
 WDRC WEAN WFBL WGR WHEC  
 WHP WOKO WORC

**C — Chicago Knights**  
 KDYL KFAB KFBK KFJF KFYR  
 KGB KLZ KMBC KMOX KOH  
 KOIN KOL KRLL KSCJ KVI KFOR  
 WADC WBBM WCAH WCCO WFBM  
 WKBH WLAP WMT WSBT WTAQ  
 WWVA WXYZ

**R — Slow River**  
 WBN WCSH WFAF WFLA WGY  
 WHO WIOD WJAR WMAQ WOC  
 WOW WRC WRVA WSAI WTAM  
 WVIC WWJ WWNC

**B — Road to Romany**  
 KOIL KWK KYW WBAL WBZA  
 WGAR WHAM WJZ WLW WREN

**ED-6:00 p.m., E-5:00, C-4:00, M-3:00**  
**C — Quiet Harmonies**  
 KLRA WBG WBRB WBT WDAE  
 WDBJ WDBO WDOD WDSU WFIV

WGST WIP WLAC WNOX WODY  
 WPG WQAM WREC WSFA WTAR  
 WTOC

**R — Catholic Hour**  
 KEX KFYR KGA KGHL KGIR KJR  
 KOA KPO KPRC KSD KSTP KTAR  
 KTHS KVOO WBAP WBN WCAE  
 WCSH WDAF WDAY WFAF WEBC  
 WEEL WENR WFBR WFLA WGY  
 WHO WIBA WIOD WJAR WJAX  
 WJDX WKY WLIT WMC WOAI  
 WOC WOW WRC WRVA WSAI  
 WSB WSM WSMB WTAG WTAM  
 WVIC WWJ WWNC

**ED-6:30 p.m., E-5:30, C-4:30, M-3:30**  
**R — Our American School**  
 KSD WBN WCAE WCSH WDAF  
 WFAF WEEL WENR WFBR WGY  
 WHO WJAR WOC WOW WRC  
 WTAG WVIC WWJ

**C — Roses and Drums, Drama**  
 KMBC KMOX KRLL WAAB WABC  
 WADC WBBM WCAO WDSU WFBM  
 WGR WGST WHK WJAS WKRC  
 WMAL WXYZ

**ED-7:00 p.m., E-6:00, C-5:00, M-4:00**  
**C — World's Business**  
 KDYL KFAB KFBK KFJF KFJF  
 KFYR KGB KHJ KLZ KMOX KOH  
 KOL KOY KRLL KSCJ KTRH  
 KFOR WABC WACO WDAE WBCM  
 WBG WBRB WCCO WDAE WDBJ  
 WDBO WDOD WDRC WDSU WFAA  
 WFBM WFEA WGR WGST WHAS  
 WHEC WHP WIBW WIP WISN  
 WJAS WKBH WLAC WLWB WLWB  
 WMAL WMT WNAC WNOX WOKO  
 WORC WPG WQAM WREC WSBT  
 WSFA WSPD WTAQ WTAR WTOC  
 WWVA

**R — G.E. Circle**  
 KFI KFSD KFYR KGO KGW KHQ  
 KOA KOMO KPRC KSL KSTP  
 KTAR KVOO WAPI WBAP WBN  
 WCAE WCSH WDAF WDAY WFAF  
 WEBC WEEL WENR WFBR WFLA  
 WFLA WGY WHO WIBA WIOD  
 WIS WJAR WJAX WJDX WKY WMC  
 WOAI WOC WOW WPTF WRC  
 WRVA WSAI WSB WSM WSMB  
 WTAG WTAM WVIC WTMJ WWJ  
 WWNC

**ED-7:15 p.m., E-6:15, C-5:15, M-4:15**  
**C — Alex Haas and Orchestra**  
 KDYL KFAB KFBK KFJF KFJF  
 KFYR KGB KLZ KMBC KMJ KMOX  
 KOH KOL KOY KRLL KSCJ KTRH  
 KVI KFOR WABC WACO WBCM  
 WBG WBRB WCAO WCCO WDAE  
 WDBJ WDBO WDOD WDRC WDSU  
 WEAN WFAA WGR WGST WHAS  
 WHEC WHP WIBW WIP WISN  
 WKBH WLAC WLWB WLWB WMAL  
 WMT WNAC WNOX WODX WOKO  
 WORC WQAM WREC WSBT WSFA  
 WSPD WTAQ WTAR WTOC WWVA

**B — Fiddle and I**  
 KDKA KOIL KWK KYW WBAL  
 WBZA WGAR WJZ WLW WREN

**ED-7:30 p.m., E-6:30, C-5:30, M-4:30**  
**R — Orchestral Gems, Symphony**  
 KSD WCAE WDAF WFAF WFBR  
 WGY WHO WLIT WLS WOC WSAI  
 WTAG WVIC WWJ

**B — Three Bakers**  
 CFCE KDKA KFI KFSD KFYR  
 KGO KGW KHQ KOA KOL KOMO  
 KPRC KSL KSTP KTAR KVOO KWK  
 KYW WAPI WBAL WBZA WDAY  
 WEBC WFAA WFLA WGAR WHAM  
 WHAS WIBA WIOD WJDX WJR

Sunday—Continued

WJZ WKY WLW WMC WOAI WPTF  
WREN WRVA WSB WSM WSMB  
WTMJ

**ED-7:45 p.m., E-6:45, C-5:45, M-4:45**  
C—Sylvanians  
KMBC KMOX WABC WCAO WCCO  
WFBL WGN WGR WHK WHP WJAS  
WKRC WLAP WNAC WOKO WPG  
WXYZ

**ED-8:00 p.m., E-7:00, C-6:00, M-5:00**  
R—Chase & Sanborn Hour  
CFPC CFGW KFI KFSD KFYP KGO  
KGW KHQ KOA KOMO KPRC KSD  
KSL KSTP KTAR KTHS KVOO  
WBEN WCAE WCSH WDAF WDAY  
WEAF WEBC WFAA WFBW WFLA  
WGY WHAS WHO WIOD WIS WJAR  
WJDX WKY WLIT WLS WMC WOAI  
WOC WOW WPTF WRC WSAI WSB  
WSMB WTAM WVIC WTMJ WWJ  
WVNC  
B—McCrary Bros.  
KFYR KPRC KTBS KWCR WJZ  
WTMJ

**ED-8:15 p.m., E-7:15, C-6:15, M-5:15**  
B—Standing Room Only, Comedy  
KDKA KFI KGW KHQ KOA KOIL  
KOMO KSL KWK KYW WBAL  
WBZA WGAR WHAM WJR WJZ  
WLW WREN WRCO

**ED-8:30 p.m., E-7:30, C-6:30, M-5:30**  
C—Highway Traveler  
KMBC KMOX KTRH KTSB WABC  
WADC WBRB WBT WCAH WCAO  
WCAU WCCO WDDO WDRC WEAN  
WFBL WFBM WGN WGR WGST  
WHCC WHK WISN WJAS WKRC  
WLAP WMAL WMAN WNOX WOKO  
WREC WRR WSPD WXYZ

**ED-8:45 p.m., E-7:45, C-6:45, M-5:45**  
C—Angelo Patri, Your Child  
KDYL KFAB KFBK KFPY KFRC  
KGB KHJ KLZ KMBC KMJ KMOX  
KOLN KOL WABC WADC WCAO  
WCAU WCCO WDRC WEAN WFBL  
WGN WGR WHK WJAS WKRC  
WMAL WNAC WOWO WSPD WXYZ  
C—Col. Steopnagle and Budd  
KLRA WBRB WBT WDAE WDBJ  
WDBO WDDO WDSU WFIW WLAC  
WREC WTAR WTOC

**ED-9:00 p.m., E-8:00, C-7:00, M-6:00**  
C—Ever-Ready Gaieties  
KDB KDYL KERN KFBK KFPY  
KFRC KGB KHJ KLZ KMBC KMJ  
KMOX KOLN KOL KGW WABC  
WADC WBT WCAO WCAU WCCO  
WDRC WDSU WEAN WFBL WFBM  
WGN WGR WGST WHK WJAS  
WKRC WMAL WNAC WOKO WOWO  
WRR WSPD WXYZ

**R—Our Government, David Lawrence**  
KSD KTBS KTHS KVOO WCSH  
WEAF WENR WFAA WFBW WFLA  
WGY WHO WIOD WIS WJAR WJDX  
WOC WOW WPTF WRC WSAI  
WVNC

**B—Enna Jettick Melodies**  
CFPC CKGW KDKA KFI KFSD  
KFYR KGHL KGIR KGO KGW  
KHQ KOA KOIL KOMO KPRC  
KSL KSTP KTAR KTHS KTHS  
KVOO KWCR KWK KYW WBAL  
WBZA WDAY WEBC WFAA WFLA  
WGAR WHAM WHAS WIBA WIOD  
WIS WJDX WJR WJZ WKY WMC  
WOAI WPTF WREN WSB WSM  
WSMB WTMJ WVNC

**ED-9:15 p.m., E-8:15, C-7:15, M-6:15**  
R—American Album Familiar Music  
KFSD KFYP KGHL KGIR KGO  
KGW KHQ KOA KOMO KPRC KSD  
KSL KSTP KTAR KTHS WAPI  
WBEN WCAE WCSH WDAY WEAF  
WEBC WENR WFBW WFI WFLA  
WGY WHAS WHO WIBA WIOD  
WJAR WJAX WJDX WKY WOAI  
WOC WOW WRC WRVA WSAI  
WSB WSM WSMB WTAG WTAM  
WTMJ WWJ

**B—Bayuk Stag Party**  
KDKA KWK KYW WBAL WBZA  
WGAR WJR WJZ WLW WREN

**ED-9:30 p.m., E-8:30, C-7:30, M-6:30**  
C—Pennzoil Parade  
KFYR KLRA KMBC KMOX KTSB  
WABC WADC WBT WCAO WCAU  
WCCO WDRC WEAN WFBW WGN  
WGR WGST WHK WJAS WKRC  
WMAL WNAC WNOX WOKO WOWO  
WSPD WXYZ

**ED-9:45 p.m., E-8:45, C-7:45, M-6:45**  
B—Making Movies, Ray Knight  
KDKA KOIL KWK KYW WBAL  
WBZA WGAR WHAM WJR WJZ  
WLW WREN

**R—L'Heure Exquise**  
CKGW KFSD KFYP KGHL KGO  
KGW KHQ KOA KOMO KPRC  
KSL KSTP KTAR KTBS KYW  
WBEN WCAE WCSH WDAF WEAF  
WEBC WEEI WFBW WFI WGY  
WBA WIS WJAR WOW WRVA  
WSAI WSM WTAM WVIC WWJ  
WVNC

**ED-10:00 p.m., E-9:00, C-8:00, M-7:00**  
C—Ernest Hutcheson, Pianist  
KDYL KFAB KFBK KFH KFPY  
KLRA KLZ KMBC KMOX KOH  
KOLN KOL KSCJ KTRH KVI KVOR  
WABC WACO WADC WBCM WBRB  
WBT WCAH WCAU WCCO WDAE  
WDBJ WDBO WDRC WDSU WEAN  
WFBL WFBM WFAA WFIW WGL  
WGR WHCC WHK WHP WIBW  
WISN WKBH WKBN WLAC WLAP  
WLWB WMAL WMT WNAC WNAX  
WNOX WORC WREC WSFA WSPD  
WTAR WTOC WWVA

**ED-10:15 p.m., E-9:15, C-8:15, M-7:15**  
B—Old Singing Master  
KDKA KFI KGO KGW KHQ KOA  
KOIL KOMO KWK WBAL WBZA  
WGAR WHAM WJZ WLW WMAQ  
WREN

**R—Shaeffer Lifetime Revue**  
KSD KYW WBEN WCAE WCSH  
WDAF WEAF WEEI WFBW WFI  
WGY WHO WJAR WOC WOW  
WRC WSAI WTAG WTAM WVIC  
WWJ

**ED-10:30 p.m., E-9:30, C-8:30, M-7:30**  
C—Ziegfeld Radio Show  
KDB KDYL KERN KFBK KFJF  
KFPY KFRC KGB KHJ KLRA KLZ  
KMBC KSCJ KMOX KOLN KOL  
KRLD KMJ KTSB KVI KWG  
WAAB WABC WADC WBRB WBT  
WCAH WCAO WCAU WCCO WDAE  
WDBJ WDBO WDDO WDRC WDSU  
WFBL WFBM WFIW WGN WGR  
WGST WHCC WHK WIBW WISN  
WIS WKBH WKRC WLAC WLAP  
WLWB WMAL WMT WNOX WOKO  
WOWO WQAM WREC WSPD WTAQ  
WTAR WTOC WXYZ

**ED-10:45 p.m., E-9:45, C-8:45, M-7:45**  
R—Sunday at Seth Parker's  
CKGW KFSD KFYP KGHL KGIR  
KGO KGW KOA KOMO KPRC KSL  
KSTP KTAR KTHS WAPI WBEN  
WCAE WDAF WDAY WEAF WEBC  
WEEI WENR WFBW WFI WFLA  
WGY WHAS WHO WIBA WIOD WIS  
WJAR WJAX WJDX WKY WMC  
WOAI WOC WOW WRC WRVA  
WSAI WSB WSM WSMB WTAM  
WTMJ WWJ

**B—Violin Twins**  
KOIL WBAL WENR WGAR WHAM  
WJR WJZ WREN

**ED-11:00 p.m., E-10:00, C-9:00, M-8:00**  
C—The Gauchos  
KDYL KFAB KFH KLRA KLZ  
KMBC KMOX KOH KRLD KTRH  
KVOR WAAB WABC WADC WBCM  
WBRB WBT WCAH WCAO WCCO  
WDAE WDBJ WDBO WDDO WDSU  
WDSU WEAN WFBL WFBM WFAA  
WFIW WGL WGR WHCC WHP  
WIBW WISN WKBH WKBN WLAC  
WLAP WLWB WMAL WMBD WMT  
WNOX WOKO WPG WQAM WREC  
WSFA WSPD WTAR WTOC WXYZ

**ED-11:15 p.m., E-10:15, C-9:15, M-8:15**  
R—Russ Columbo and Orchestra  
KGHL KGO KOA KOMO KPRC  
KTBS WCKY WEAF WFBW WFI  
WGY WHO WIBA WOC WOW WRC  
WSMB WWJ  
B—Mello 'Cello  
KFYR KOIL KWCR WBAL WJZ  
WKY WSB

**ED-11:30 p.m., E-10:30, C-9:30, M-8:30**  
C—Eddie Duchin and Orchestra  
KFAB KFH KLRA KMBC KMOX  
KOH KTRH WABC WADC WBCM  
WBRB WBT WCAO WCAU WCCO  
WDAE WDBJ WDBO WDDO WDSU  
WEAN WFBL WFBM WFAA WFIW  
WGL WGR WHCC WHP WIBW WISN  
WKBN WLAP WLWB WMAL WMT  
WNAC WNAX WOKO WQAM WREC  
WSBT WSFA WSPD WTOC

**C—Pennzoil Parade**  
KDYL KERN KFBK KFPY KFRC  
KGB KHJ KLZ KMJ KOH KOIL  
KOL KOY KWG  
R—Jesse Crawford, Organ  
WCAE WCKY WDAF WEAF WFBW  
WGY WHO WJAR WMAQ WOC  
WOW WRC WTAM WWJ  
B—Ted Cook's Orchestra  
KFYR KOIL KWCR KWK WBAL  
WENR WIBA WJR WJZ WKY  
WSB

**ED-12:00 a.m., E-11:00, C-10:00, M-9:00**  
C—Coon-Sanders and Orchestra  
KDYL KFAB KFH KFJF KFPY  
KLRA KMOX KTRH WABC WBCM  
WBRB WCAH WCAO WCAU WCCO  
WDAE WDBJ WDBO WDDO WDSU  
WEAN WFBL WFBM WFAA WFIW  
WGR WGST WHAS WHCC WHP  
WIBW WISN WKBH WKBN WLAC  
WLWB WMAL WMBD WMT WNAC  
WNAX WNOX WOKO WPG WQAM  
WREC WSBT WSFA WSPD WTAR  
WTOC

**B—Wm. Stoess and Dutchmen**  
KOA KOIL KWCR KWK WBZA  
WENR WGAR WJR WJZ WLW  
WREN WSB  
**ED-12:30 a.m., E-11:30, C-10:30, M-9:30**  
R—Larry Funk and Orchestra  
WCAE WEAF WFBW WHO WOC  
WRC WTAM

# INDEX BY FREQUENCIES AND DIAL NUMBERS

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### KEY

Frequency in kilocycles. Wavelengths in meters. Night power in watts in third column. Second column symbols: \*Verifies reception for postage or sends station stamp for 10c. †Verifies for postage; no stamp. ‡ Stamp only. † Does not verify. § Does not reply. \$ Verification 25c, reply card 10c. Fourth column symbols: D, Daytime only. Dn, Daytime but may use some evening hours. S, Sunday only. X, Has permit to increase power. + Uses greater power in daytime. CP, Has construction permit only. Z, Has permit to change frequency. Y, has permit to change location. □ These stations are synchronized. 1-2-3, Small figures indicate stations sharing time. a-b-c, Small letters indicate stations with two sets of calls. Some Canadian, Cuban and Mexican stations have odd frequencies; correct frequency shown in fourth column. Dashes (---) Official information not received.

Columbia: C National: Red R. Blue B. Both N.

## 540 kilocycles 555.6 meters

CKWO -- 5000 C Windstor, Ontario

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Essex Broadcasters, Ltd.

## 550 kilocycles 545.1 meters

KFDY † 500 1+ Brookings, S. D.  
 KFUD † 500 2+ St. Louis, Mo.  
 KFYZ † 1000 1+N Bismarck, N. D.  
 KOAC † 1000 --- Corvallis, Ore.  
 KSD † 500 2R St. Louis, Mo.  
 WGR † 1000 C Buffalo, N. Y.  
 WKRC † 1000 C Cincinnati, Ohio

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S. D. State College  
 Concordia Theological Seminary.  
 Meyer Broadcasting Co.  
 State Agricultural College  
 Pulitzer Publishing Co.  
 Buffalo Broadcasting Co.  
 WKRC Incorporated

## 560 kilocycles 535.4 meters

KFDM \* 500 X+ Beaumont, Texas  
 KLZ \* 1000 C Denver, Colo.  
 KTAB \* 1000 --- San Francisco, Cal.  
 WFI \* 500 1R Philadelphia, Pa.  
 WIBO \* 1000 3+ Chicago, Ill.  
 WLIT † 500 1R Philadelphia, Pa.  
 WNOX \* 1000 X+C Knoxville, Tenn.  
 WPCC \* 500 3S Chicago, Ill.  
 WQAM \* 1000 C Miami, Fla.

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Magnolia Petroleum Co.  
 Reynolds Radio Co., Inc.  
 Associated Broadcasters  
 Strawbridge & Clothier  
 Nelson Bros. Bond & Mortgage Co.  
 Lit Brothers  
 WNOX, Inc.  
 North Shore Congregational Church  
 Miami Broadcasting Co.

## 570 kilocycles 526.0 meters

KGKO \* 250 + Wichita Falls, Texas  
 KMTR \* 500 --- Hollywood, Cal.  
 KVI \* 500 C Tacoma, Wash.  
 TGW -- 50 --- Guatemala  
 WEAO † 750 1 Columbus, Ohio  
 WKBN \* 500 1C Youngstown, Ohio  
 WMAC -- 250 2a Syracuse, N. Y.  
 WMCA \* 500 b New York City  
 WNAX \* 1000 C Yankton, S. D.  
 WPCH \* 500 b New York City  
 WSYR \* 250 2a Syracuse, N. Y.  
 WWNC \* 1000 N Asheville, N. C.

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Wichita Falls Broadcasting Co.  
 KMTR Radio Corp.  
 Puget Sound Broadcasting Co., Inc.

Ohio State University  
 WKBN Broadcasting Corp.  
 Clive B. Meredith  
 Knickerbocker Broadcasting Co., Inc.  
 House of Gurney, Inc.  
 Knickerbocker Broadcasting Co., Inc.  
 Clive B. Meredith  
 Citizens Broadcasting Co., Inc.

## 580 kilocycles 516.9 meters

CFCL -- 500 Sa Toronto, Ont.  
 CFCY -- 500 --- Charlottetown, P. E. I.  
 CHMA -- 250 4S Edmonton, Alta.  
 CKCL -- 500 a Toronto, Ont.  
 CKUA † 500 4 Edmonton, Alta.  
 KSAC † 500 2+ Manhattan, Kans.  
 WIBW \* 1000 2+C Topeka, Kansas  
 WOBW \* 250 1+ Charleston, W. Va.  
 WSAZ \* 250 1 Huntington, W. Va.  
 WTAG \* 250 R Worcester, Mass.

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Dominion Battery Co.  
 The Island Radio Co.  
 Christian and Missionary Alliance  
 The Dominion Battery Co.  
 University of Alberta  
 State Agricultural College  
 Topeka Broadcasting Assn., Inc.  
 WOBW, Inc.  
 WSAZ, Inc.  
 Telegram Publishing Co.

## 590 kilocycles 508.2 meters

CJGC \* 5000 595a London, Ont.  
 CMW -- 1400 588 Havana, Cuba  
 CNRL -- 5000 595a London, Ont.  
 KHQ -- 1000 +N Spokane, Wash.  
 WCAJ -- 500 1 Lincoln, Nebr.

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Free Press Printing Co., Ltd.  
 Columbus Commercial & Radio Co.  
 Canadian National Railways  
 Louis Wasmer, Inc.  
 Nebraska Wesleyan University

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## INDEX BY FREQUENCIES AND DIAL NUMBERS

WBEI	↑	1000	R	Boston, Mass.
WGCM	*	1000	D	Gulfport, Miss.
WKZO	*	1000	D	Kalamazoo, Mich.
WOW	*	1000	IR	Omaha, Nebr.

### 600 kilocycles 499.7 meters

CNRO	↑	500	---	Ottawa, Ont.
KFSD	*	500	---N	San Diego, Cal.
WCAC	↑	250	2+	Storrs, Conn.
WCAO	*	250	C	Baltimore, Md.
WICC	*	250	2+	Bridgeport, Conn.
WMT	*	500	C	Waterloo, Iowa
WREC	*	500	+C	Memphis, Tenn.

### 610 kilocycles 491.5 meters

KFRC	*	1000	C	San Francisco, Cal.
VPN	*	500	---	Nassau, Bahama
WDAF	*	1000	N	Kansas City, Mo.
WFAN	*	500	Ca	Philadelphia, Pa.
WIP	*	500	Ca	Philadelphia, Pa.
WTAY	↑	500	D	Cleveland, Ohio
XETR	--	2500	---	Mexico City, Mexico

### 620 kilocycles 483.6 meters

KGW	*	1000	+N	Portland, Ore.
KTAR	*	500	+N	Phoenix, Arizona
KZRM	--	50000	618.5	Manila, P. I.
WFLA	*	1000	+Na	Clearwater, Fla.
WLBY	↑	500	C	Bangor, Maine
WSUN	*	1000	+a	St. Petersburg, Fla.
WTMJ	*	1000	+N	Milwaukee, Wis.

### 630 kilocycles 475.9 meters

CFCT	*	500	---	Victoria, B. C.
CHCS	--	500	+a	Hamilton, Ont.
CJGX	--	500	---	Yorkton, Sask.
CKOC	--	500	+a	Hamilton, Ont.
CKTB	--	500	+a	St. Catharines, Ont.
CMCJ	--	250	---	Havana, Cuba
CMQ	--	250	---	Havana, Cuba
CNRA	*	500	---	Moncton, N. B.
HIX	*	1000	---	Santo Domingo
KFRU	*	500	1	Columbia, Mo.
KGFX	--	200	D	Pierre, S. D.
WGFB	--	500	1	Evansville, Ind.
WMAL	*	250	+C	Washington, D. C.
WOS	*	500	1	Jefferson City, Mo.
XETF	--	500	---	Veracruz, Ver.

### 640 kilocycles 468.5 meters

CHRC	--	100	645a	Quebec, Que.
CKCI	↑	100	645a	Quebec, Que.
CKCR	--	100	645	Waterloo, Ont.
KFI	*	50000	N1	Los Angeles, Cal.
WAU	*	500	1	Columbus, Ohio
WOI	*	5000	D	Ames, Iowa

### 650 kilocycles 461.3 meters

KPCB	*	100	Dn	Seattle, Wash.
WSM	*	5000	NX	Nashville, Tenn.

### 660 kilocycles 454.3 meters

CHWK	↑	100	665	Chilliwack, B. C.
CJRM	↑	500	665	Moose Jaw, Sask.
CJRW	↑	1000	665	Fleming, Sask.
CMCO	--	250	---	Havana, Cuba
CMDC	--	500	---	Havana, Cuba
RUS	--	500	664	Salvador
WAAW	--	500	D	Omaha, Nebr.
WEAF	↑	50000	R□	New York City
WTIC	↑	5000	R□	Hartford, Conn.

### 670 kilocycles 447.5 meters

VOWR	--	500	675	St. Johns, N. F.
WMAQ	*	5000	N	Chicago, Ill.

Edison Elec. Illuminating Co.  
Great Southern Land Co., Inc.  
WKZO, Inc.  
Woodmen of the World

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Canadian National Railways  
Airfan Radio Corp.  
Conn. Agricultural College  
Monumental Radio, Inc.  
Bridgeport Broadcasting Station, Inc.  
Waterloo Broadcasting Co.  
WREC, Inc.

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Don Lee, Inc.  
Development Board  
Kansas City Star Co.  
Keystone Broadcasting Co., Inc.  
Gimbel Bros. Co.  
Cleveland Radio Broadcasting Corp.  
Cia. Difusora Mexicana S. A.

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Oregonian Publishing Co.  
KTAR Broadcasting Co.  
Radio Corp. of Philippines  
Chamber of Commerce  
Maine Broadcasting Co., Inc.  
Chamber of Commerce  
Milwaukee Journal

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Victoria Broadcasting Association  
Hamilton Spectator  
Wentweg Grain Exchange  
Wentworth Radio Broadcasting Co.  
Taylor & Bate, Ltd.  
Rafael Rodriguez  
Jose Fernandez  
Canadian National Railways  
Dominican Republic  
Stephens College  
Dana McNeil  
Evansville on the Air, Inc.  
M. A. Leese Radio Corp.  
Missouri State Marketing Bureau  
Cia. Difusora Mexicana S. A.

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CHRC, Ltd.  
Le "Soleil" Ltd.  
Mitchell & Liddle  
Earle C. Anthony, Inc.  
Associated Radiocasting Corp.  
State College of Agriculture

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Queen City Broadcasting Co.  
National Life & Accident Ins. Co.

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Chilliwack Broadcasting Co., Ltd.  
Jas. Richardson & Sons, Ltd.  
Jas. Richardson & Sons, Ltd.  
J. L. Stowers  
Juan Fernandez de Castro  
Republic of El Salvador  
Omaha Grain Exchange  
National Broadcasting Co., Inc.  
Travelers Broadcasting Service, Inc.

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Wesley United Church  
National Broadcasting Co.

KCYS.  
670

MTRS.  
447.5  
DIAL

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

680 kilocycles 440.9 meters

KFEQ	*	2500	D	St. Joseph, Mo.
KPO	†	5000	NX	San Francisco, Cal.
WPTF	*	1000	N Dn	Raleigh, N. C.
XFG	--	2000	683.3	Mexico, Mex.

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Scroggin & Co., Bank  
Hale Bros. & The Chronicle  
Durham Life Insurance Co.  
Sria. de Guerra y Marina

690 kilocycles 434.5 meters

CFAC	--	500	1	Calgary, Alta.
CFRB	*	10000	Ca	Toronto, Ont.
CJCJ	*	500	1	Calgary, Alta.
CNRX	*	4000	a	Toronto, Ont.
NAA	--	1000	---	Arlington, Va.
VAS	--	2000	685	Glace Bay, N. S.
XBT	†	500	---	Monterrey, Mexico
VCX	--	100	---	Halifax, N. S.

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The Calgary Herald  
Rogers-Majestic Corp., Ltd.  
Albertan Publishing Co., Ltd.  
Canadian National Railways  
U. S. Navy  
Canadian Marconi Co.  
Mexico Music Co., S. A.  
Sambro Lightship

700 kilocycles 428.3 meters

WLW	*	50000	B	Cincinnati, Ohio
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Crosley Radio Corp.

710 kilocycles 422.3 meters

KMPK	*	500	Dn	Beverly Hills, Cal.
WOR	*	5000	X	Newark, N. J.
XEN	†	1000	711	Mexico City

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R. S. MacMillan  
Bamberger Broadcasting Service, Inc.  
Cia. Civil de Inversiones

720 kilocycles 416.4 meters

WGN	†	25000	C	Chicago, Ill.
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WGN, Inc.

730 kilocycles 410.7 meters

CHLS	--	100	1b	Vancouver, B. C.
CHYC	*	5000	Sa	Montreal, Que.
CKAK	†	5000	Ca	Montreal, Que.
CKCD	--	100	1b	Vancouver, B. C.
CKFC	†	50	1	Vancouver, B. C.
CKMO	--	100	1	Vancouver, B. C.
CKWX	†	100	1	Vancouver, B. C.
CMK	--	3150	---	Havana, Cuba
CNRM	*	5000	a	Montreal, Que.
XER	--	75000	735	Villa Acuna, Mex.

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W. G. Hassell  
Northern Electric Co., Ltd.  
La Presse Publishing Co., Ltd.  
Vancouver Daily Province  
United Church of Canada  
Sprott-Shaw Radio Co.  
Western Broadcasting Co., Ltd.  
Cuban Broadcasting Co., Hotel Plaza  
Canadian National Railways  
Dr. John R. Brinkley

740 kilocycles 405.2 meters

CJCA	*	500	745	Edmonton, Alta.
KMMJ	*	1000	Dn	Clay Center, Nebr.
WSB	--	5000	NX	Atlanta, Ga.
WHEB	--	250	CPD	Portsmouth, N. H.

--	--	--

The Edmonton Journal, Ltd.  
The M. M. Johnson Co.  
Atlanta Journal Co.  
Granite State Broadcasting Corp.

750 kilocycles 399.8 meters

KGU	†	1000	RX	Honolulu, Hawaii
WJR	†	10000	BX	Detroit, Mich.
XEQ	--	5000	---	Juarez, Chih.

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Marion A. Mulrony  
WJR, The Goodwill Station, Inc.  
Feliciano Lopez Islas

760 kilocycles 394.5 meters

KXA	*	250	+	Seattle, Wash.
WBAL	*	1000	B□	Baltimore, Md.
WEW	*	1000	D	St. Louis, Mo.
WJZ	†	30000	B□	New York City

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American Radio Tel. Co.  
Consolidated Gas, Elec. & Power Co.  
St. Louis University  
National Broadcasting Co., Inc.

770 kilocycles 389.4 meters

KFAB	*	5000	1XC	Lincoln, Nebr.
WBBM	*	25000	1C	Chicago, Ill.

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KFAB Broadcasting Co.  
WBBM Broadcasting Corp.

780 kilocycles 384.4 meters

CKY	--	5000	a	Winnipeg, Manitoba
CNRW	--	5000	a	Winnipeg, Manitoba
KELW	--	500	2	Burbank, Cal.
KTM	--	500	2+	Los Angeles, Cal.
WEAN	†	250	+C	Providence, R. I.
WMC	--	500	+N	Memphis, Tenn.
WFOR	--	500	1b	Norfolk, Va.
WTAR	--	500	1Cb	Norfolk Va.
XEZ	*	500	---	Mexico, Mex.

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Manitoba Telephone System  
Canadian National Railways  
Magnolia Park, Ltd.  
Pickwick Broadcasting Corp.  
Shepard Broadcasting Service, Inc.  
Memphis Commercial-Appeal, Inc.  
WTAR Radio Corp.  
WTAR Radio Corp.  
Joaquin Capilla

INDEX BY FREQUENCIES AND DIAL NUMBERS

790 kilocycles 379.5 meters

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CMBS	--	150	---	Havana, Cuba
CMBT	--	150	---	Havana, Cuba
CMHC	--	250	---	Tuinucu, Cuba
KGO	↑	7500	N	San Francisco, Cal.
WGY	↑	50000	R	Schenectady, N. Y.

Enrique Artalejo  
Emilio Perera  
Frank H. Jones  
National Broadcasting Co., Inc.  
General Electric Co.

800 kilocycles 374.8 meters

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WBAP	↑	10000	IXN	Fort Worth, Texas
WFAA	↑	50000	IN	Dallas, Texas

Carter Publications, Inc.  
News & Journal

810 kilocycles 370.2 meters

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CHNS	*	500	Za815	Halifax, N. S.
CNRH	--	500	Za815	Halifax, N. S.
WCCO	*	5000	CX	Minneapolis, Minn.
WNYC	↑	500	---	New York City
XFC	--	250	---	Aguascalientes, Mexico
VOAS	--	75	---	St. John's, N. F.

Maritime Broadcasting Co., Ltd.  
Canadian National Railways  
Northwestern Broadcasting, Inc.  
Dept. of Plants & Structures  
Gobierno del Estado de Aguascalientes  
Ayre & Sons, Ltd.

KCYS.  
880

MTRS.  
340.7

DIAL

820 kilocycles 365.6 meters

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CMGC	↑	30	---	Matanzas, Cuba
WHAS	↑	25000	CX	Louisville, Ky.
XFI	--	1000	818	Mexico City

Oscar S. Mechoso  
Courier-Journal X Times  
Sria. de Ind., Comercio y Trabajo

830 kilocycles 361.2 meters

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KOA	↑	12500	NX	Denver, Colo.
WEU	--	1000	D	Reading, Pa.
WHDH	--	1000	D	Boston, Mass.
WRUF	*	5000	DnC	Gainesville, Fla.

National Broadcasting Co., Inc.  
Berks Broadcasting Co.  
Matheson Radio Co., Inc.  
University of Florida

840 kilocycles 356.9 meters

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CKGW	*	10000	Na	Toronto, Ont.
CKLK	↑	1000	b	Red Deer, Alta.
CMC	*	500	---	Havana, Cuba
CNRD	↑	1000	b	Red Deer, Alta.
CPRY	--	5000	a	Toronto, Ont.
XEFD	--	300	845	Tijuana, B. C.

Gooderham & Worts, Ltd.  
Alberta Pacific Grain Co., Ltd.  
Cuban Telephone Co.  
Canadian National Railways  
Canadian Pacific Railways  
Carlos de la Sierra

850 kilocycles 352.7 meters

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CMJE	--	20	856	Camaguey, Cuba
KWKH	*	10000	1	Shreveport, La.
WWL	*	10000	1	New Orleans, La.

Manuel Fernandez  
Hello World Broadcasting Corp.  
Loyola University

860 kilocycles 348.6 meters

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WABC	*	50000	Ca	New York City
WBOQ	--	50000	a	New York City
WHB	*	500	D	Kansas City, Mo.
XFX	--	500	867	Mexico City, Mexico

Atlantic Broadcasting Corp.  
Atlantic Broadcasting Corp.  
WHB Broadcasting Co.  
Secretaria de Educacion Publica

870 kilocycles 344.6 meters

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WENR	--	50000	1N	Chicago, Ill.
WLS	↑	50000	1N	Chicago, Ill.
XFF	--	500	875	Chihuahua, Chih.

National Broadcasting Co., Inc.  
Agricultural Broadcasting Co.  
Gobierno del Estado de Chihuahua

880 kilocycles 340.7 meters

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CHML	*	50	4	Hamilton, Ont.
CJCB	*	50	---	Sydney, N. S.
CKCV	↑	50	a	Quebec, Que.
CKPC	↑	100	4	Preston, Ont.
CNRQ	↑	50	a	Quebec, Que.
KFKA	↑	500	2+	Greeley, Colo.
KLX	*	500	---	Oakland, Cal.
KPOF	*	500	2	Denver, Colo.
WCOC	*	500	+	Meridian, Miss.
WGBI	*	250	1	Scranton, Pa.
WQAN	↑	250	1	Scranton, Pa.
WSUI	*	500	---	Iowa City, Iowa

Maple Leaf Radio Co., Ltd.  
N. Nathanson  
Vandry, Inc.  
Cyrus Dolph  
Canadian National Railways  
Midwestern Radio Corp.  
Tribune Publishing Co.  
Pillar of Fire, Inc.  
Mississippi Broadcasting Co., Inc.  
Scranton Broadcasters, Inc.  
Scranton Times  
University of Iowa

CUT OUT ON DOTTED LINES

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890 kilocycles 336.9 meters

CFBO	*	500	---	St. John, N. B.
CKCO	†	100	3	Ottawa, Ont.
CKPR	*	50	3	Ft. William, Ont.
CMCF	†	250	---	Havana, Cuba
CMX	*	500	---	Havana, Cuba
KARK	*	250	---	Little Rock, Ark.
KFNF	*	500	2+	Shenandoah, Iowa
KUSD	*	500	2	Vermillion, S. D.
WGST	*	250	+C	Atlanta, Ga.
WILL	†	250	2+	Urbana, Ill.
WJAR	*	250	+R	Providence, R. I.
WKAQ	*	500	XZ	San Juan, P. R.
WMMN	*	250	+	Fairmont, W. Va.
XES	‡	500	---	Tampico, Mexico

C. A. Munro, Ltd.
Dr. G. M. Geldert
Dougall Motor Car Corp.
Raoul Karman
Francisco Lavin
Arkansas Radio & Equipment Co.
Henry Field Co.
University of South Dakota
Georgia School of Technology
University of Illinois
The Outlet Co.
Radio Corp. of Porto Rico
Holt-Rowe Broadcasting Co.
Difusora Portena XES

900 kilocycles 333.1 meters

KGBU	†	500	---	Ketchikan, Alaska
KHJ	*	1000	C	Los Angeles, Cal.
KSEI	*	250	---	Pocatello, Idaho
WBEN	*	1000	R	Buffalo, N. Y.
WJAX	*	1000	N	Jacksonville, Fla.
WKY	*	1000	N	Oklahoma City
WLBL	†	2000	D	Stevens Point, Wis.

Alaska Radio & Service Co.
Don Lee, Inc.
Radio Service Corp.
WBEN, Inc.
City of Jacksonville
WKY Radiophone Co.
Wisconsin Dept. of Markets

910 kilocycles 329.6 meters

CFLC	*	100	915	Prescott, Ont.
CFQC	---	500	a	Saskatoon, Sask.
CNRS	---	500	a	Saskatoon, Sask.
TICR	---	50	911	San Jose, Costa Rica
XEW	†	5000	---	Mexico City

Radio Association
The Electric Shop, Ltd.
Canadian National Railways
Mexico Music Co.

920 kilocycles 325.9 meters

CMCD	---	250	925	Havana, Cuba
CMCN	---	250	925	Havana, Cuba
HHK	*	1000	---	Port au Prince, Haiti
KFEL	†	500	1	Denver, Colo.
KFXF	*	500	1	Denver, Colo.
KOMO	†	1000	N	Seattle, Wash.
KPRC	*	1000	+N	Houston, Texas
WAAF	---	500	D	Chicago, Ill.
WBSO	---	500	D	Needham, Mass.
WWJ	†	1000	R	Detroit, Mich.

Angel Berternaty
Antonio Girard
Republic of Haiti
Eugene P. O'Fallon, Inc.
Colorado Radio Corp.
Fisher's Blend Station, Inc.
Houston Printing Co.
Drovers' Journal Publishing Co.
Babson Service Organization, Inc.
The Detroit News

930 kilocycles 322.4 meters

CFCH	---	100	3	North Bay, Ont.
CFRC	---	50	3+	Kingston, Ont.
CKX	†	500	---	Brandon, Man.
CMJF	†	225	---	Camaguey, Cuba
KFWI	†	500	1	San Francisco, Cal.
KGBZ	---	500	2+	York, Nebr.
KMA	*	500	2+	Shenandoah, Iowa
KROW	*	500	1+C	Oakland, Cal.
WBRC	*	500	+C	Birmingham, Ala.
WDBJ	*	250	+C	Roanoke, Va.
WIBG	*	25	D	Elkins Park, Pa.

Northern Supplies, Ltd.
Queen's University
Manitoba Telephone System
John L. Stowers
Radio Entertainments, Inc.
Dr. George R. Miller
May Seed & Nursery Co.
Educational Broadcasting Corp.
Birmingham Broadcasting Co., Inc.
Times-World Corp.
WIBG, Inc.

940 kilocycles 319.0 meters

KOIN	*	1000	C	Portland, Oregon
KZRC	---	500	937.5	Cebu, P. I.
WAAT	---	300	D	Jersey City, N. J.
WCSH	*	1000	R+	Portland, Maine
WDAY	*	1000	N	Fargo, N. D.
WFIW	*	1000	C	Hopkinsville, Ky.
WHA	---	750	D+	Madison, Wis.
XEO	---	5000	---	Mexico City

KOIN, Inc.
Erlanger & Galinger, Inc.
Bremer Broadcasting Corp.
Congress Square Hotel Co.
WDAY, Inc.
WFIW, Inc.
University of Wisconsin
National Revolucionario Party

950 kilocycles 315.6 meters

CMHD	---	250	---	Caibarien, Cuba
KFWB	---	1000	---	Hollywood, Cal.

Manuel Alvarez
Warner Bros. Broadcasting Corp.

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<del>KGHL</del>	--	1000	B+	Billings, Mont.	Northwestern Auto Supply Co., Inc.
<del>KMBC</del>	*	1000	C	Kansas City, Mo.	Midland Broadcasting Co., Inc.
VONA		30	--	St. John's, N. F.	Lane, Gillard & Avery
WRC	†	500	R	Washington, D. C.	National Broadcasting Co., Inc.

### 960 kilocycles 312.3 meters

<del>CHCK</del>	--	100	---	Charlottetown, P. E. I.	W. E. Burke & J. E. Gesner
<del>CHWC</del>	*	500	3	Regina, Sask.	R. H. Williams & Sons, Ltd.
CJBR	--	500	3a	Regina, Sask.	Cooperative Wheat Producers, Ltd.
CKCK	†	500	3a	Regina, Sask.	Leader-Post, Ltd.
CKNC	*	500	---	Toronto, Ont.	Canadian National Carbon Co., Ltd.
CMBC	--	150	965	Havana, Cuba	Domingo Fernandez
CMBD	--	150	965	Havana, Cuba	Luis Perez Garcia
CMJL	--	50	---	Camaguey, Cuba	Enrique Artimes
CNRR	--	500	3a	Regina, Sask.	Canadian National Railways
<del>XED</del>	*	10000	965	Reynosa, Mexico	International Broadcasting Co.

### 970 kilocycles 309.1 meters

<del>KJR</del>	*	5000	N	Seattle, Wash.	Northwest Broadcasting System, Inc.
WCFL	--	1500	R Dn	Chicago, Ill.	Chicago Federation of Labor

### 980 kilocycles 305.9 meters

<del>CFCN</del>	--	10000	985	Calgary, Alta.	W. W. Grant & H. G. Love
<del>KDKA</del>	--	50000	B	Pittsburgh, Pa.	Westinghouse Elec. & Mfg. Co.
TI4NRH	--	15	---	Heredia, C. R.	Armando Cespedes

### 990 kilocycles 302.8 meters

<del>CMGF</del>	†	50	987	Matanzas, Cuba	Bernabe R. de la Torre
<del>WBZ</del>	†	25000	B□X	Boston, Mass.	Westinghouse Elec. & Mfg. Co.
<del>WBZA</del>	†	1000	B□X	Springfield, Mass.	Westinghouse Elec. & Mfg. Co.
XEK	--	101	---	Mexico City	Arturo Martinez

### 1000 kilocycles 299.8 meters

<del>KFVD</del>	*	259	Dn	Los Angeles, Calif.	Los Angeles Broadcasting Co.
<del>WHO</del>	*	5000	R□X	Des Moines, Iowa	Central Broadcasting Co.
<del>WOC</del>	*	5000	R□X	Davenport, Iowa	Central Broadcasting Co.
WORK	--	1000	D	York, Pa.	York Broadcasting Co.
XEA	--	100	---	Guadalajara, Jal.	Alberto Palos Sauza
XEC	--	50	---	Toluca, Mex.	Jesus R. Benavides
XEE	*	105	---	Oaxaca, Oax.	Alfonso Zorilla B.
XEFE	--	100	---	N. Laredo, Tams.	Rafael T. Carranza
XEFI	--	100	---	Chihuahua, Chih.	Feliciano Lopez Islas
XEFS	--	40	---	Queretaro, Qro.	Salvador Sanchez
XEI	*	101	---	Morelia, Mexico	Carlos Gutierrez M.
XEJ	*	100	---	Juarez, Chih.	Juan G. Buttner
XEL	--	25	---	Saltillo, Coah.	Antonio Garza Castro
XETC	--	100	---	Jalapa, Ver.	Juventino Sanchez
XETG	--	100	---	Torreon, Coah.	Feliciano Lopez Islas
XEU	--	100	---	Veracruz, Ver.	Fernando Pazos
XEV	--	100	---	Puebla, Pue.	Ciro Molina
XEY	--	105	---	Merida, Yuc.	Partido Socialista S. E.

### 1010 kilocycles 296.8 meters

<del>CKIC</del>	--	50	---	Wolfville, N. S.	Acadia University
<del>CMBZ</del>	--	150	---	Havana, Cuba	Manual y G. Galas
<del>KGGF</del>	†	500	2	Coffeyville, Kans.	Powell & Platz
<del>KQW</del>	*	500	---	San Jose, Cal.	Pacific Agricultural Foundation, Ltd.
WHN	*	250	1	New York City	Marcus Loew Booking Agency
WIS	*	500	+N	Columbia, S. C.	South Carolina Broadcasting Co., Inc.
WNAD	*	500	2	Norman, Okla.	University of Oklahoma
WPAP	*	250	1	New York City	Calvary Baptist Church
WQAO	--	250	1	New York City	Calvary Baptist Church
WRNY	--	250	1	New York City	Aviation Radio Station, Inc.

### 1020 kilocycles 293.9 meters

<del>CMJH</del>	--	15	1017	Ciego de Avila, Cuba	Luis Marauri
<del>KFKX</del>	*	10000	a	Chicago, Ill.	Westinghouse Elec. & Mfg. Co.
<del>KYW</del>	*	10000	Na	Chicago, Ill.	Westinghouse Elec. & Mfg. Co.
WRAX	†	250	D	Philadelphia, Pa.	WRAX Broadcasting Co.

KCYS.  
1020  
MTRS.  
293.9  
DIAL

CUT OUT ON DOTTED LINES

XE

## INDEX BY FREQUENCIES AND DIAL NUMBERS

<b>1030 kilocycles</b>	<b>291.1 meters</b>	
CFCF -- 500 N	Montreal, Que.	
CMHI -- * 30	Santa Clara, Cuba	
CMKC -- * 150 1034	Santiago de Cuba	
CNVR -- † 500 ---	Vancouver, B. C.	
XEB -- † 1000 ---	Mexico City, Mexico	
<b>1040 kilocycles</b>	<b>288.3 meters</b>	
CMGH -- 150	Matanzas, Cuba	
KRLD -- * 10000 C1	Dallas, Texas	
KTHS -- † 10000 N1	Hot Springs, Ark.	
WKAR -- * 1000 D	East Lansing, Mich.	
<b>1050 kilocycles</b>	<b>285.5 meters</b>	
CMJG -- 50 ---	Camaguey, Cuba	
KFBI -- * 5000 Dn	Milford, Kansas	
KNX -- * 5000 ---	Hollywood, Cal.	
XEFC -- 10 ---	Merida, Yuc.	
<b>1060 kilocycles</b>	<b>282.8 meters</b>	
KWJJ -- * 500 Dn	Portland, Ore.	
WBAL -- * 10000 1B	Baltimore, Md.	
WJAG -- * 1000 Dn	Norfolk, Nebr.	
WTIC -- * 5000 1R	Hartford, Conn.	
<b>1070 kilocycles</b>	<b>280.2 meters</b>	
CMBG -- 225 ---	Havana, Cuba	
CMCB -- 150 ---	Havana, Cuba	
KJBS -- * 100 D	San Francisco, Cal.	
WCAZ -- * 50 D	Carthage, Ill.	
WDZ -- † 100 D	Tuscola, Ill.	
WTAM -- * 50000 R	Cleveland, Ohio	
XEG -- 250 ---	Mexico City, Mexico	
<b>1080 kilocycles</b>	<b>277.6 meters</b>	
WBT -- * 5000 CX	Charlotte, N. C.	
WCBD -- * 5000 1 Dn	Zion, Ill.	
WMBI -- * 5000 1 Dn	Chicago, Ill.	
<b>1090 kilocycles</b>	<b>275.1 meters</b>	
KMOX -- * 50000 C	St. Louis, Mo.	
<b>1100 kilocycles</b>	<b>272.6 meters</b>	
KGDM -- * 250 DX	Stockton, Cal.	
WLWL -- * 5000 1	New York City	
WPG -- * 5000 1C	Atlantic City, N. J.	
<b>1110 kilocycles</b>	<b>270.1 meters</b>	
KSOO -- * 2500 Dn	Sioux Falls, S. D.	
KZKA -- 1000 ---	Manilla, P. I.	
WRVA -- * 5000 N	Richmond, Va.	
<b>1120 kilocycles</b>	<b>267.7 meters</b>	
CFCa -- † 500 a	Toronto, Ont.	
CFJC -- 100 ---	Kamloops, B. C.	
CHGS -- * 500 ---	Summerside, P. E. I.	
CJOC -- † 100 ---	Lethbridge, Alta	
CMHJ -- 40 1125	Cienfuegos, Cuba	
CNRT -- * 500 a	Toronto, Ont.	
KFIO -- † 100 D	Spokane, Wash.	
KFSG -- * 500 3	Los Angeles, Cal.	
KRKD -- * 500 3	Los Angeles, Cal.	
KRSC -- † 50 D	Seattle, Wash.	
KTRH -- * 500 2C	Houston, Texas	
WDBO -- * 250 +C	Orlando, Fla.	
WDEL -- † 250 +X	Wilmington, Del.	
WHAD -- * 250 1	Milwaukee, Wis.	
WISN -- † 250 1C	Milwaukee, Wis.	
WTAW -- * 500 2	College Station, Texas	
<b>1130 kilocycles</b>	<b>265.3 meters</b>	
KSL -- * 5000 NX	Salt Lake City	
WJJD -- * 20000 Dn	Mooseheart, Ill.	
WOV -- 1000 D	New York City	
XEH -- 1000 1132	Monterrey, N. L.	
	Canadian Marconi Co.	
	Lavin y Paz	
	M. P. Martinez	
	Canadian National Railways	
	El Buen Tono, S. A.	
	Alberto Alvarez	
	KRLD Radio Corp.	
	Chamber of Commerce	
	Michigan State College	
	Jose Antonio Lefran	
	Farmers & Bankers Life Insurance Co.	
	Western Broadcast Co.	
	Hugo Molina Font.	
	KWJJ Broadcast Co., Inc.	
	Consolidated Gas Elec. & Pwr. Co.	
	Norfolk Daily News	
	Travelers Broadcasting Service Corp.	
	Francisco Garrigo	
	Antonio Capablanca	
	Julius Brunton & Sons Co.	
	Superior Broadcasting Service	
	James L. Bush	
	National Broadcasting Co., Inc.	
	Miguel Yarza	
	Station WBT, Inc.	
	Wilbur Glenn Voliva	
	Moody Bible Institute	
	Voice of St. Louis, Inc.	
	E. F. Peffer	
	Missionary Society of St. Paul	
	WPG Broadcasting Corp.	
	Sioux Falls Broadcasting Assn., Inc.	
	Larus & Bros. Co., Inc.	
	Star Pub. & Ptg. Co.	
	D. S. Dagleish & Sons	
	R. T. Holman, Ltd.	
	Harold R. Carson	
	Arturo Hernandez	
	Canadian National Railways	
	Spokane Broadcasting Corp.	
	Echo Park Evang. Assn.	
	Dalton's, Inc.	
	Radio Sales Corp.	
	KTRH Broadcasting Co.	
	Orlando Broadcasting Co., Inc.	
	WDEL, Inc.	
	Marquette University	
	Evening Wisconsin Co.	
	Agricultural & Mech. College	
	Radio Service Corp. of Utah	
	WJJD, Inc.	
	International Broadcasting Corp.	
	Constantino Tarnava	

## INDEX BY FREQUENCIES AND DIAL NUMBERS

### 1140 kilocycles 263.0 meters

CMBW	--	150	---	Havana, Cuba
CMCO	--	1000	---	Havana, Cuba
KVOW	*	5000	1NX	Tulsa, Okla.
WAPI	*	5000	1NX	Birmingham, Ala.
XETA	*	500	---	Mexico City

Alvarez-Moris		
Andres Martinez		
Southwestern Sales Corp.		
WAPI Broadcast Co.		
Manuel Espinosa Tagle		

### 1150 kilocycles 260.7 meters

CMGI	--	30	---	Colon, Cuba
WHAM	--	5000	BX	Rochester, N. Y.
10-AT	--	25	1155	Trail, B. C.

Armando Lizama		
Stromberg-Carlson Tel. Mfg. Co.		
Trail Amateur Radio Assn.		

### 1160 kilocycles 258.5 meters

WOWO	*	10000	1C	Ft. Wayne, Ind.
WWVA	*	5000	1C	Wheeling, W. Va.

Main Auto Supply Co.		
West Virginia Broadcasting Corp.		

### 1170 kilocycles 256.3 meters

WCAU	*	10000	CX	Philadelphia, Pa.
------	---	-------	----	-------------------

Universal Broadcasting Co.		

### 1180 kilocycles 254.1 meters

KEX	*	5000	2N	Portland, Ore.
KOB	*	20000	2	State College, N. M.
WDGY	*	1000	Dn	Minneapolis, Minn.
WINS	*	500	---	New York City
WMAZ	†	500	---	Macon, Ga.

Western Broadcasting Co.		
College of Agriculture & Mech. Arts		
Dr. George W. Young		
American Radio News Corp.		
Southeastern Broadcasting Co., Inc.		

### 1190 kilocycles 252.0 meters

WOAI	*	50000	N	San Antonio, Texas
------	---	-------	---	--------------------

Southern Equipment Co.		

### 1200 kilocycles 249.9 meters

CKOV	--	100	---	Kelowna, B. C.
CMGB	--	30	1205	Matanzas, Cuba
KBTM	--	100	D	Paragould, Ark.
KERN	--	100	C	Bakersfield, Cal.
KFJB	†	100	+	Marshalltown, Iowa
KFWF	†	100	5+	St. Louis, Mo.
KFXD	*	100	---	Nampa, Idaho
KGDE	*	100	†	Fergus Falls, Minn.
KGDY	*	100	---	Huron, S. D.
KGEK	†	100	9	Yuma, Colo.
KGEW	†	100	9	Fort Morgan, Colo.
KGFJ	†	100	---	Los Angeles, Cal.
KGHI	*	100	---	Little Rock, Ark.
KMLB	*	100	D	Monroe, La.
KVOS	*	100	---	Bellingham, Wash.
KWG	*	100	---	Stockton, Cal.
WABI	†	100	---	Bangor, Maine
WABZ	*	100	I	New Orleans, La.
WBBZ	*	100	---	Ponca City, Okla.
WBHS	--	50	10CP	Huntsville, Ala.
WCAT	†	100	---	Rapid City, S. D.
WCAX	*	100	2	Burlington, Vt.
WCLO	†	100	---	Janesville, Wis.
WCOD	†	100	3	Harrisburg, Pa.
WFAM	*	100	8	South Bend, Ind.
WFBC	*	50	10XY	Knoxville, Tenn.
WFBE	†	100	+	Cincinnati, Ohio
WHBC	†	10	---	Canton, Ohio
WHBY	†	100	---	Green Bay, Wis.
WIBX	*	100	+	Utica, N. Y.
WIL	*	100	5+	St. Louis, Mo.
WJBC	*	100	6	La Salle, Ill.
WJBL	†	100	6	Decatur, Ill.
WJBW	†	100	1	New Orleans, La.
WKJC	†	100	3	Lancaster, Pa.
WLAP	†	250	---	Louisville, Ky.
WLBG	*	100	+	Petersburg, Va.
WNBO	*	100	---	Washington, Pa.
WNBW	†	10	---	Carbondale, Pa.
WNBX	†	10	2	Springfield, Vt.
WORC	*	100	CX	Worcester, Mass.
WRBL	†	50	X	Columbus, Ga.
WVAE	†	100	8	Hammond, Ind.
10-AB	†	25	---	Moose Jaw, Sask.
10-BP	†	15	---	Wingham, Ont.
10-BQ	†	15	---	Brantford, Ont.

J. W. B. Browne		
Jose Anorga		
W. J. Beard's Temple of Music		
Bee Bakersfield Brdcstg Co.		
Marshall Electric Co., Inc.		
St. Louis Truth Center, Inc.		
Frank E. Hurt		
Jaren Drug Co.		
Voice of South Dakota		
Beehler Elec. Equipment Co.		
City of Fort Morgan		
Ben S. McGlashan		
O. A. Cook		
Liner's Broadcasting Station, Inc.		
KVOS, Inc.		
Portable Wireless Tel. Co., Inc.		
First Universalist Society		
Samuel D. Reeks		
C. L. Carrell		
The Hutchens Co.		
State School of Mines		
Burlington Daily News		
WCLO Radio Corp.		
Keystone Broadcasting Corp		
South Bend Tribune		
Virgil V. Evans		
Post Publishing Co.		
St. John's Catholic Church		
St. Norbert's College		
WIBX, Inc.		
Missouri Broadcasting Corp.		
Kaskaskia Broadcasting Co.		
Commodore Broadcasting, Inc.		
Charles C. Carlson, Jr.		
Lancaster Brdcstg. Service Inc.		
American Broadcasting Corp. of Ky.		
WLBG, Inc.		
John Brownlee Spriggs		
Home Cut Glass & China Co.		
First Congregational Church		
Alfred Frank Kleindienst		
WRBL Radio Station, Inc.		
Hammond-Calumet, Broad. Corp.		
Moose Jaw Radio Assn.		
Wingham Radio Club		
Telephone City Radio Assn.		

KCYS.  
**1200**  
MTRS.  
**249.9**  
DIAL

CUT OUT ON DOTTED LINE

INDEX BY FREQUENCIES AND DIAL NUMBERS

1210 kilocycles 247.8 meters

CFCO	*	250	8	Chatham, Ont.
CFNB	**	50	---	Fredericton, N. B.
CJOR	*	500	---	Vancouver, B. C.
CKMC	*	100	8	Cobalt, Ont.
KDLR	+	100	---	Devil's Lake, N. D.
KFJI	+	100	---	Klamath Falls, Ore
KFOR	*	100	+	Lincoln, Nebr.
KFVS	*	100	6	Cape Girardeau, Mo.
KFXM	+	100	9	San Bernardino, Cal.
KGCR	+	100	---	Watertown, S. D.
KGMP	+	100	---	Elk City, Okla.
KGNO	+	100	---	Dodge City, Kansas
KGY	+	100	---	Olympia, Wash.
KMJ	+	100	---	Fresno, Cal.
KPPC	**	50	9	Pasadena, Cal.
KWEA	*	100	---	Shreveport, La.
WALR	*	100	---	Zanesville, Ohio
WBAX	*	100	1	Wilkes-Barre, Pa.
WBBL	+	100	7S	Richmond, Va.
WCBS	*	100	2	Springfield, Ill.
WCOH	*	100	3Z	Yonkers, N. Y.
WCRW	*	100	4	Chicago, Ill.
WEBQ	*	100	6	Harrisburg, Ill.
WEDC	**	100	4	Chicago, Ill.
WGBB	**	100	3	Freeport, N. Y.
WHBF	*	100	---	Rock Island, Ill.
WHBU	+	100	---	Anderson, Ind.
WIBU	*	100	---	Poynette, Wis.
WJBI	**	100	3	Red Bank, N. J.
WJBU	*	100	1	Lewisburg, Pa.
WJBY	*	100	---	Gadsden, Ala.
WJW	*	100	---	Mansfield, Ohio
WLCI	*	50	---	Ithaca, N. Y.
WMBG	*	100	7C	Richmond, Va.
WMRJ	*	100	3	Jamaica, N. Y.
WOCL	*	50	---	Jamestown, N. Y.
WOMT	*	100	---	Manitowoc, Wis.
WPAW	*	100	a	Providence, R. I.
WPRO	*	100	a	Providence, R. I.
WQDX	*	100	---	Thomasville, Ga.
WRBQ	*	100	+	Greenville, Miss.
WSBC	*	100	4	Chicago, Ill.
WSEN	+	100	---	Columbus, Ohio
WSIX	*	100	---	Springfield, Tenn.
WSOC	*	100	---	Gastonia, N. C.
WTAX	+	100	2	Springfield, Ill.
XEX	--	500	---	Mexico City

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John Beardall  
 James S. Neill & Sons, Ltd.  
 G. C. Chandler  
 R. L. MacAdam  
 KDLR, Inc.  
 KFJI Broadcasters, Inc.  
 Howard A. Shuman  
 Hirsch Battery & Radio Co.  
 J. C. & E. W. Lee  
 Greater Kampeska Radio Corp.  
 Bryant Radio & Electric Co.  
 Dodge City Broadcasting Co.  
 KGY, Inc.  
 James McClatchy Co.  
 Pasadena Presbyterian Church  
 Hello World Broadcasting Corp.  
 Roy W. Waller  
 John H. Stenger, Jr.  
 Grace Covenant Pres. Church  
 H. L. Dewing & Chas. Messter  
 Westchester Broadcasting Corp.  
 Clinton R. White  
 First Trust & Savings Bank  
 Emil Denemark, Inc.  
 Harry H. Carman  
 Beardsley Specialty Co.  
 Anderson Broadcasting Corp.  
 Wm. C. Forrest  
 Monmouth Broadcasting Co.  
 Bucknell University  
 Gadsden Broadcasting Co., Inc.  
 Mansfield Broadcasting Assn.  
 Lutheran Assn. of Ithaca  
 Havens & Martin, Inc.  
 Peter J. Prinz  
 A. E. Newton  
 Francis M. Kadow  
 Cherry & Webb Broadcasting Co.  
 Cherry & Webb Broadcasting Co.  
 Stevens Luke  
 J. Pat. Scully  
 World Battery Co., Inc.  
 Columbus Broadcasting Co.  
 638 Tire & Vulcanizing Co.  
 WSOC, Inc.  
 WTAX, Inc.  
 Excelsior, Cia Editorial S. A.

1220 kilocycles 245.8 meters

KFKU	*	500	1	Lawrence, Kansas
KTW	**	1000	2	Seattle, Wash.
KWSC	**	1000	+2	Pullman, Wash.
WCAD	*	500	D	Canton, N. Y.
WCAE	*	1000	R	Pittsburgh, Pa.
WDAE	*	1000	C	Tampa, Fla.
WREN	*	1000	1B	Lawrence, Kansas

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University of Kansas  
 First Presbyterian Church  
 State College of Washington  
 St. Lawrence University  
 Pittsburgh Sun-Telegraph  
 Tampa Publishing Co.  
 Jenny Wren Co.

1230 kilocycles 243.8 meters

CMBY	--	350	1235	Havana, Cuba
CMCA	--	150	1235	Havana, Cuba
KFOD	--	250	---	Anchorage, Alaska
KGGM	+	250	+	Albuquerque, N. Mex.
KYA	*	1000	B	San Francisco, Cal.
WFBM	*	1000	1C	Indianapolis, Ind.
WNAC	*	1000	C	Boston, Mass.
Wpsc	*	500	D	State College, Pa.
WSBT	+	500	1C	South Bend, Ind.
XETQ	--	100	---	Mexico, Mex.

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Callejas-Estefani  
 Manuel Cruz  
 Anchorage Radio Club  
 New Mexico Broadcasting Co.  
 Pacific Broadcasting Corp.  
 Indianapolis Power & Light Co.  
 Shepard Broadcasting Service, Inc.  
 Pennsylvania State College  
 South Bend Tribune  
 Carlos G. Caballero

1240 kilocycles 241.8 meters

CMAB	--	20	1249	Pinar del Rio, Cuba
KGCU	--	250	3	Mandan, N. D.
KLPM	+	250	3	Minot, N. D.
KTAT	+	1000	1	Ft. Worth, Texas
KTFI	+	500	+	Twin Falls, Idaho
WACO	+	1000	1C	Waco, Texas
WXYZ	+	1000	---	Detroit, Mich.

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Francisco Martinez  
 Mandan Radio Assn.  
 John B. Cooley  
 Texas Air Transport  
 Radio Broadcasting Corp.  
 Central Texas Broadcasting Co., Inc.  
 Kunsky-Trendle Broadcasting Corp.

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INDEX BY FREQUENCIES AND DIAL NUMBERS

1250 kilocycles 239.9 meters

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KFMX	†	1000	2	Northfield, Minn.
KFOX	*	1000		Long Beach, Cal.
WAAM	*	1000	1+X	Newark, N. J.
WCAL	*	1000		Northfield, Minn.
WDSU	†	1000	C	New Orleans, La.
WGCP	†	250		Newark, N. J.
WLB	†	1000	2	St. Paul, Minn.
WODA	†	1000	1	Paterson, N. J.
WRHM	*	1000	2	Minneapolis, Minn.
XEFA	†	250	---	Mexico City

Carleton College  
Nichols & Warinner, Inc.  
WAAM, Inc.  
St. Olaf College  
Jos. H. Unalt  
May Radio Broadcast Corp.  
University of Minnesota  
Richard E. O'Dea  
Minnesota Broadcasting Corp.  
Manuel F. Murguia

1260 kilocycles 238.0 meters

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CMJI	*	5	---	Ciego de Avila, Cuba
KOIL	**	1000	B---	Council Bluffs, Iowa
KRGV	*	500	D	Harlingen, Texas
KVOA	†	500	D	Tucson, Arizona
KWWG	*	500	1	Brownsville, Texas
WLBW	*	500	C+	Oil City, Pa.
WTOC	*	500	C	Savannah, Ga.

Gilberto Gessa  
Mona Motor Oil Co.  
KRGV, Inc.  
Robert M. Riculfi  
Herald Pub. Co.  
Radio-Wire Program Corp.  
Savannah Broadcasting Co.

1270 kilocycles 236.1 meters

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CMCU	--	150	---	Havana, Cuba
CMCW	--	150	---	Havana, Cuba
KGCA	†	50	2D	Decorah, Iowa
KOL	†	1000	C	Seattle, Wash.
KVOR	†	1000	C	Colorado Springs, Colo.
KWLC	*	100	2D	Decorah, Iowa
WASH	*	500	a	Grand Rapids, Mich.
WEAT	*	1000	D	Ithaca, N. Y.
WFR	*	500	R	Baltimore, Md.
WJDX	*	1000	N	Jackson, Miss.
WOOD	†	500	a	Grand Rapids, Mich.

Jorge Garcia Serra  
Jose Lorenzo  
Charles W. Greenley  
Seattle Broadcasting Co., Inc.  
Reynolds Radio Co., Inc.  
Luther College  
Kunsky-Trendle Broadcasting Corp.  
Cornell University  
Baltimore Radio Show, Inc.  
Lamar Life Insurance Co.  
Kunsky-Trendle Broadcasting Corp.

1280 kilocycles 234.2 meters

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KFBB	*	1000	+	Great Falls, Mont.
WCAM	*	500	1	Camden, N. J.
WCAP	*	500	1	Asbury Park, N. J.
WDOD	*	1000	+C	Chattanooga, Tenn.
WIBA	*	500	+N	Madison, Wis.
WOAX	†	500	1	Trenton, N. J.
WRR	†	500	C	Dallas, Texas

Buttrety Broadcast, Inc.  
City of Camden  
Radio Industries Broadcast Co.  
WDOD Broadcasting Corp.  
Badger Broadcasting Co.  
WOAX, Inc.  
City of Dallas

1290 kilocycles 232.4 meters

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KDYL	†	1000	C	Salt Lake City
KFUL	†	500	1	Galveston, Texas
KLGN	*	50	D	Blytheville, Ark.
KTSA	†	1000	1+C	San Antonio, Texas
WEBC	*	1000	+N	Superior, Wis.
WJAS	*	1000	C+	Pittsburgh, Pa.
WNBZ	--	50	D	Saranac Lake, N. Y.

Intermountain Broadcasting Corp.  
News Publishing Co.  
C. L. Lintzenich  
Lone Star Broadcast Co.  
Head of Lake Broadcasting Co.  
Pittsburgh Radio Supply House  
Smith & Mace

KCY5.

1310

MTRS.

228.9

DIAL

1300 kilocycles 230.6 meters

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CMKJ	--	20	---	Guantanamo, Cuba
KFAC	*	1000	4	Los Angeles, Cal.
KFH	*	1000	C	Wichita, Kansas
KFJR	*	500	3	Portland, Ore.
KTBR	†	500	3	Portland, Ore.
WBRR	*	1000	1	Brooklyn, N. Y.
WEVD	*	500	1	New York City
WFAB	*	1000	1	New York City
WHAZ	*	500	1	Troy, N. Y.
WIOD	*	1000	N	Miami, Fla.
WQQ	*	1000	---	Kansas City, Mo.
XEM	†	250	---	Tampico, Tams.

Luis Morlote  
Los Angeles Broadcasting Co.  
Radio Station KFJ Co.  
Ashley C. Dixon—KFJR, Inc.  
M. E. Brown  
People's Pulpit Association  
Debs Memorial Radio Fund, Inc.  
Defenders of Truth Society, Inc.  
Rensselaer Polytechnic Institute  
Isle of Dreams Broadcasting Corp.  
Unity School of Christianity  
Maria T. de Gutierrez

1310 kilocycles 228.9 meters

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KCRJ	†	100	D	Jerome, Arizona
KFBK	†	100	---	Sacramento, Cal.
KFGQ	†	100	7	Boone, Iowa
KFPL	†	100	---	Dublin, Texas
KFPM	†	15	---	Greenville, Texas

Chas. C. Robinson  
Jas. McClatchy Co.  
Boone Biblical College  
C. C. Baxter  
The New Furniture Co.

CUT OUT ON DOTTED LINES

## INDEX BY FREQUENCIES AND DIAL NUMBERS

<del>KFXJ</del>	↑	100	---	Grand Junction, Colo.	Western Slope Broadcasting Co.
<del>KFXR</del>	↑	100	+	Oklahoma City	Exchange Ave. Baptist Church
<del>KFYO</del>	↑	100	+	Lubbock, Texas	T. E. Kirksey
<del>KGBX</del>	↑	100	---	St. Joseph, Mo.	KGBX, Inc.
<del>KGCZ</del>	↑	100	+	Wolf Point, Mont.	First State Bank of Vida
<del>KGEZ</del>	↑	100	---	Kalispell, Mont.	Donald C. Treloar
<del>KGFV</del>	↑	100	---	Kearney, Nebr.	Central Nebraska Broadcasting Corp.
<del>KIT</del>	↑	100	---	Yakima, Wash.	Carl E. Haymond
<del>KMED</del>	↑	100	---	Medford, Ore.	Mrs. W. J. Virgin
<del>KRMD</del>	↑	50	X	Shreveport, La.	Radio Station KRMD, Inc.
<del>KTLC</del>	↑	100	---	Houston, Texas	Houston Broadcasting Co.
<del>KTSM</del>	↑	100	2	El Paso, Texas	W. S. Bledsoe & W. T. Blackwell
<del>KXRO</del>	↑	100	---	Aberdeen, Wash.	KXRO, Inc.
<del>WBEO</del>	↑	100	---	Marquette, Mich.	Lake Superior Broadcasting Co.
<del>WBOW</del>	*	100	---	Terre Haute, Ind.	Banks of Wabash, Inc.
<del>WBRE</del>	↑	100	---	Wilkes-Barre, Pa.	Louis G. Baltimore
<del>WCLS</del>	*	100	1	Joliet, Ill.	WCLS, Inc.
<del>WDAH</del>	↑	100	2	El Paso, Texas	Bledsoe & Blackwell
<del>WEBR</del>	*	100	+	Buffalo, N. Y.	Howell Broadcasting Co., Inc.
<del>WEXL</del>	↑	50	---	Royal Oak, Mich.	Royal Oak Broadcasting Co.
<del>WFBG</del>	*	100	3X	Altoona, Pa.	Wm. F. Gable Co.
<del>WFDL</del>	*	100	---	Flint, Mich.	Frank D. Fallain
<del>WGAL</del>	*	100	5	Lancaster, Pa.	WGAL, Inc.
<del>WGH</del>	↑	100	---	Newport News, Va.	Hampton Roads Broadcasting Corp.
<del>WHAT</del>	↑	100	4	Philadelphia, Pa.	Independence Broadcasting Co.
<del>WIAS</del>	↑	100	7	Ottumwa, Iowa	Iowa Broadcasting Co.
<del>WJAC</del>	*	100	3	Johnstown, Pa.	Johnstown Automobile Co.
<del>WJAK</del>	*	50	6	Elkhart, Ind.	Truth Publishing Co., Inc.
<del>WKAV</del>	*	100	---	Laconia, N. H.	Laconia Radio Club
<del>WKBB</del>	*	100	1	Joliet, Ill.	Sanders Bros. Radio Station
<del>WKBC</del>	*	100	---	Birmingham, Ala.	R. B. Broyles Furniture Co.
<del>WKBS</del>	*	100	---	Galesburg, Ill.	Permil N. Nelson
<del>WLBC</del>	↑	50	6	Muncie, Ind.	Donald A. Burton
<del>WMBO</del>	↑	100	---	Auburn, N. Y.	WMBO, Inc.
<del>WNBH</del>	*	100	---	New Bedford, Mass.	New Bedford Broadcasting Co.
<del>WOL</del>	*	100	---	Washington, D. C.	American Broadcasting Co.
<del>WRWA</del>	*	100	5X	Reading, Pa.	Reading Broadcasting Co.
<del>WROL</del>	↑	100	---	Knoxville, Tenn.	Stewart Broadcasting Co.
<del>WSAJ</del>	*	100	---	Grove City, Pa.	Grove City College
<del>WSJS</del>	*	100	---	Winston-Salem, N. C.	Winston-Salem Journal Co.
<del>WTEL</del>	*	100	4	Philadelphia, Pa.	Foulkrod Radio Engineering Co.
<del>WTJS</del>	↑	100	+	Jackson, Tenn.	Sun Publishing Co.
<del>WTSL</del>	↑	100	---	Laurel, Miss.	G. A. Houseman
<del>XEFB</del>	--	50	1315	Monterrey, N. L.	Quintanilla y Stevenson

### 1320 kilocycles 227.1 meters

<del>KGHF</del>	↑	250	+	Pueblo, Colo.	
<del>KGMB</del>	↑	250	C	Honolulu, Hawaii	C. P. Ritchie & J. E. Finch
<del>KID</del>	*	250	+	Idaho Falls, Idaho	Honolulu Broadcasting Co., Ltd.
<del>WADC</del>	↑	1000	C	Akron, Ohio	KID Broadcasting Co.
<del>WSMB</del>	*	500	N	New Orleans, La.	Allen T. Simmons
					WSMB, Inc.

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### 1330 kilocycles 225.4 meters

<del>KGB</del>	*	500	C	San Diego, Cal.	Don Lee, Inc.
<del>KMO</del>	↑	250	---	Tacoma, Wash.	KMO, Inc.
<del>KSCJ</del>	*	1000	1+C	Sioux City, Iowa	Perkins Bros. Co.
<del>WDRG</del>	*	500	C	Hartford, Conn.	WDRG, Inc.
<del>WSAI</del>	*	500	R+	Cincinnati, Ohio	Crosley Radio Corp., Lessee
<del>WTAQ</del>	*	1000	1C	Eau Claire, Wis.	Gillette Rubber Co.

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### 1340 kilocycles 223.7 meters

CMCR	--	150	1345	Havana, Cuba	Aurelio Hernandez
CMCY	↑	250	1345	Havana, Cuba	M. D. Atruan
KFPV	↑	50	XZ	Fort Smith, Ark.	Southwestern Hotels Co.
KFP Y	*	1000	C	Spokane, Wash.	Symons Broadcasting Co.
WCOA	*	500	---	Pensacola, Fla.	Pensacola Broadcasting Co.
WSPD	*	1000	C	Toledo, Ohio	Toledo Broadcasting Co.

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### 1350 kilocycles 222.1 meters

<del>KIDO</del>	↑	1000	---	Boise, Idaho	Boise Broadcasting Station
<del>KWK</del>	*	1000	B	St. Louis, Mo.	Greater St. Louis Brdctg Corp.
<del>WAWZ</del>	*	250	1	Zarephath, N. J.	Pillar of Fire
<del>WBNX</del>	--	250	1a	New York City	Standard Cahill Co., Inc.
<del>WCDA</del>	*	250	1	New York City	Italian Educ. Broadcasting Co., Inc.
<del>WEHC</del>	*	500	D	Emory, Va.	Emory & Henry College
<del>WMSG</del>	--	250	1a	New York City	Madison Sq. Garden Brdctg. Corp.

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INDEX BY FREQUENCIES AND DIAL NUMBERS

1360 kilocycles 220.4 meters

KGFR	*	1000	N--	Long Beach, Cal.
KGIR	†	500		Butte, Montana
WCSC	†	500		Charleston, S. C.
WFBL	*	1000	CX	Syracuse, N. Y.
WGES	*	500	1+	Chicago, Ill.
WJKS	*	1000	1+Z	Gary, Ind.
WQBC	†	500	D	Vicksburg, Miss.

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Consolidated Broadcasting Corp.  
 KGIR, Inc.  
 South Carolina Broadcasting Co., Inc.  
 Onondaga Radio Broadcasting Corp.  
 Oak Leaves Broadcasting Station, Inc.  
 Johnson-Kennedy Radio Corp.  
 Delta Broadcasting Co., Inc.

1370 kilocycles 218.7 meters

CMGB	--	30	1375	Cardenas, Cuba
HRB	--	2300		Tegucigalpa, Hond.
KCRC	†	100	2+	Enid, Okla.
KFBL	*	50	3	Everett, Wash.
KFJM	†	100	---	Grand Forks, N. D.
KFTZ	†	100	---	Ft. Worth, Texas
KFLX	†	100	---	Galveston, Texas
KGAR	*	100	+	Tucson, Arizona
KGDA	†	100	---	Mitchell, S. D.
KGFG	†	100	2-	Oklahoma City
KGFL	†	50	4	Raton, N. M.
KGKL	†	100	---	San Angelo, Texas
KICA	†	100	4CP	Clovis, N. Mex.
KMAC	†	100	5	San Antonio, Texas
KONO	†	100	5	San Antonio, Texas
KOOS	†	100	---	Marshfield, Ore.
KRE	†	100	---	Berkeley, Cal.
KUJ	†	100	---	Walla Walla, Wash.
KVL	--	100	3	Seattle, Wash.
KWKC	†	100	---	Kansas City, Mo.
WBTM	†	100	7-	Danville, Va.
WCBM	*	100	+Z	Baltimore, Md.
WDAS	†	100	+	Philadelphia, Pa.
WESG	†	50	---	Glens Falls, N. Y.
WGL	*	100	C	Fort Wayne, Ind.
WHBD	†	100	---	Mount Orab, Ohio
WHBQ	†	100	---	Memphis, Tenn.
WHDF	†	100	+	Calumet, Mich.
WIBM	†	100	1	Jackson, Mich.
WJBK	*	50	1	Detroit, Mich.
WJTL	--	100	---	Atlanta, Ga.
WLEY	†	100	+	Lexington, Mass.
WLVA	†	100	7	Lynchburg, Va.
WMBR	†	100	---	Tampa, Fla.
WPFB	†	100	---	Hattiesburg, Miss.
WQDM	†	100	D	St. Albans, Vt.
WRAK	*	100	6	Williamsport, Pa.
WRAM	*	100	---	Wilmington, N. C.
WRDO	†	100	---	Augusta, Maine
WRJN	†	100	---	Racine, Wis.
WSVS	*	50	---	Buffalo, N. Y.
-----	--	100	6	Williamsport, Pa.

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Genaro Sebater  
 United Fruit Co.  
 Enid Radiophone Co.  
 Leese Bros.  
 University of North Dakota  
 Ralph S. Bishop  
 George Roy Clough  
 Tucson Motor Service Co.  
 Mitchell Broadcasting Corp.  
 Oklahoma Broadcasting Co., Inc.  
 KGFL, Inc.  
 KGKL, Inc.  
 W. E. Whitmore  
 W. W. McAllister  
 Mission Broadcasting Co.  
 H. H. Hanseth, Inc.  
 First Congregational Church  
 KUJ, Inc.  
 KVL, Inc.  
 Wilson Duncan Broadcasting Co.  
 Piedmont Broadcasting Corp.  
 Baltimore Broadcasting Corp.  
 WDAS Broadcasting Station, Inc.  
 W. N. Parker and H. H. Metcalfe  
 Fred Z. Zieg  
 F. P. Moler  
 Broadcasting Station WHBQ, Inc.  
 Upper Michigan Broadcasting Co.  
 WIBM, Inc.  
 James F. Hopkins, Inc.  
 Oglethorpe University  
 Lexington Air Stations  
 Lynchburg Broadcasting Corp.  
 F. J. Reynolds  
 Hattiesburg Broadcasting Co.  
 A. J. St. Antoine  
 C. R. Cummins  
 Wilmington Radio Association  
 WRDO, Inc.  
 Racine Broadcasting Corp.  
 Seneca Vocational School  
 Sun-Gazette Broadcasting Co.

1380 kilocycles 217.3 meters

CMJC	--	75	1382	Camaguey, Cuba
KOH	†	500	C	Reno, Nevada
KQV	†	500	2	Pittsburgh, Pa.
KSO	*	500	1	Clarinda, Iowa
WKBH	*	1000	1C	La Crosse, Wis.
WSMK	*	200	2	Dayton, Ohio
XETB	--	125	---	Torreón, Coah.

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Feliciano Isaac  
 The Bee, Inc.  
 KQV Broadcasting Co.  
 Iowa Broadcasting Co.  
 WKBH, Inc.  
 Stanley M. Krohn, Jr.  
 Jose A. Berumen

KCY.S.  
 1400  
 MTRS.

1390 kilocycles 215.7 meters

CMCG	--	30	1395	Havana, Cuba
CMCH	--	20	1395	Havana, Cuba
CMCM	--	15	1395	Havana, Cuba
CMDB	--	40	1395	Havana, Cuba
KLRA	*	1000	1C	Little Rock, Ark.
KOY	*	500	C	Phoenix, Arizona
KUOA	†	1000	1	Fayetteville, Ark.
WHK	†	1000	C	Cleveland, Ohio

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Jose Justo Moran  
 Wilfredo Fontanals  
 Martinez-Madico  
 Julio Powers  
 Arkansas Broadcasting Co.  
 Nielson Radio & Sporting Goods Co.  
 University of Arkansas  
 Radio Air Service Corp.

214.2  
 DIAL

1400 kilocycles 214.2 meters

KLO	*	500	---	Ogden, Utah
KOCW	*	250	+	Chickasha, Okla.
WBAA	†	500	1+	Lafayette, Ind.

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Interstate Broadcasting Corp.  
 College for Women  
 Purdue University

CUT OUT ON  
 DOTTED LINES

## INDEX BY FREQUENCIES AND DIAL NUMBERS

WBBC	*	500	2	Brooklyn, N. Y.
WCGU	*	500	2	Brooklyn, N. Y.
WCMA	†	500	1	Culver, Ind.
WFOJ	*	500	2	Brooklyn, N. Y.
WKBF	†	500	1	Indianapolis, Ind.
WLTH	*	500	2	Brooklyn, N. Y.
XEP	--	200	--	Laredo, Mexico

Brooklyn Broadcasting Corp.  
U. S. Broadcasting Corp.  
General Broadcasting Corp.  
Paramount Broadcasting Co.  
Indianapolis Broadcasting, Inc.  
The Voice of Brooklyn, Inc.  
La Voz Latino

### 1410 kilocycles 212.6 meters

KFLY	†	500	4	Rockford, Ill.
KGRS	*	1000	1	Amarillo, Texas
WAAB	*	500	C	Boston, Mass.
WBCM	*	500	C	Bay City, Mich.
WDAG	*	1000	1	Amarillo, Texas
WHBL	*	500	4	Sheboygan, Wis.
WHIS	†	250	2	Bluefield, W. Va.
WODX	*	500	3C	Mobile, Ala.
WRBX	*	250	2	Roanoke, Va.
WSFA	†	500	3C	Montgomery, Ala.

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Rockford Broadcasters, Inc.  
Gish Radio Service  
Bay State Broadcasting Corp.  
James E. Davidson  
National Radio & Broadcasting Corp.  
Press Pub. Co.  
Daily Telegraph  
Mobile Broadcasting Corp.  
Richmond Development Corp.  
Montgomery Broadcasting Co., Inc.

### 1420 kilocycles 211.1 meters

KABC	†	100	--	San Antonio, Texas
KBPS	--	100	4	Portland, Ore.
KCMC	--	100	--	Texarkana, Ark.
KFIZ	*	100	--	Fond du Lac, Wis.
KFX Y	KLMA	100	Y	Flagstaff, Arizona
KGFF	†	100	--	Shawnee, Okla.
KGGC	†	100	5	San Francisco, Cal.
KGIW	†	100	--	Trinidad, Colo.
KGIX	†	100	--	Las Vegas, Nevada
KGKX	†	100	--	Sand Point, Idaho
KGVO	†	100	DZ	Missoula, Montana
KIVO	*	100	Y	Red Oak, Iowa
KORE	*	100	--	Eugene, Ore.
KWCR	†	100	B	Cedar Rapids, Iowa
KXL	†	100	4	Portland, Ore.
KXYZ	--	100	--	Houston, Texas
WAGM	--	100	--	Presque Isle, Maine
WDEV	--	50	D	Waterbury, Vt.
WEHS	--	100	a	Cicero, Ill.
WELL	†	50	--	Battle Creek, Mich.
WENC	--	100	D	Americus, Ga.
WERE	*	100	--	Erie, Pa.
WFDW	*	100	--	Anniston, Ala.
WHDL	*	100	D	Tupper Lake, N. Y.
WHFC	--	100	a	Cicero, Ill.
WILM	*	100	--	Wilmington, Del.
WJBO	*	100	--	New Orleans, La.
WJMS	--	100	D	Ironwood, Mich.
WKBI	*	100	a	Cicero, Ill.
WLBF	†	100	--	Kansas City, Kansas
WMBC	*	100	†	Detroit, Mich.
WMBH	--	100	†	Joplin, Mo.
WPAD	†	100	--	Paducah, Ky.
WSPA	*	100	†	Spartanburg, S. C.
WTBO	*	100	†	Cumberland, Md.

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Alamo Broadcasting Co.  
Benson Polytechnic Institute  
North Mississippi Broadcasting Corp.  
Reporter Printing Co.  
Albert H. Scherman  
KGFF Broadcasting Co.  
Golden Gate Broadcasting Co.  
Leonard E. Wilson  
Las Vegas, Nevada, Radio Corp.  
Sandpoint Broadcasting Co.  
Mosby's, Incorporated  
Red Oak Radio Corp.  
Eugene Broadcasting Station  
Cedar Rapids Broadcast Co.  
KXL Broadcasters, Inc.  
Harris County Broadcast Co.  
Aroostook Broadcasting Corp.  
Harry C. Whitehill  
WEHS, Inc.  
Enquirer-News Co.  
Americus Broadcast Co.  
Erie Dispatch-Herald  
Raymond G. Hammett  
Tupper Lake Broadcasting Co. Inc.,  
WHFC, Inc.  
Delaware Broadcasting Co., Inc.  
Valdemar Jensen  
Marius Johnson  
WKBI, Inc.  
WLBF Broadcasting Co.  
Michigan Broadcasting Co., Inc.  
Edwin Dudley Aber  
Paducah Broadcasting Co.  
Voice of South Carolina  
Associated Broadcasting Corp.

### 1430 kilocycles 209.7 meters

KECA	†	1000	N	Los Angeles, Cal.
KGNF	†	500	D	North Platte, Nebr.
WBAK	†	500	1+	Harrisburg, Pa.
WCAH	*	500	C	Columbus, Ohio
WFEA	*	500	C	Manchester, N. H.
WHEC	*	500	C	Rochester, N. Y.
WHP	*	500	1C	Harrisburg, Pa.
WNBR	*	500	1C	Memphis, Tenn.
WOKO	†	500	C	Albany, N. Y.

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Earle C. Anthony, Inc.  
Great Plains Broadcasting Co.  
Penna. State Police  
Commercial Radio Service Co.  
New Hampshire Broadcasting Co.  
WHEC, Inc.  
WHP, The Harrisburg Telegraph  
Memphis Broadcasting Co.  
WOKO, Inc.

### 1440 kilocycles 208.2 meters

CMBI	--	30	1444	Havana, Cuba
CMBL	--	20	1444	Havana, Cuba
CMBN	--	30	1444	Havana, Cuba
KDFN	†	500	--	Casper, Wyo.
KLS	*	250	D	Oakland, Cal.
WBIG	*	500	C	Greensboro, N. C.

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Francisco Mayorquin  
Julio C. Hidalgo  
Arrando Romeu  
Donald Lewis Hathaway  
Warner Bros.  
North Carolina Broadcasting Co.

# INDEX BY FREQUENCIES AND DIAL NUMBERS

WCBA	*	250	a	Allentown, Pa.
WMBD	*	500	3+C	Peoria Heights, Ill.
WSAN	*	250	a	Allentown, Pa.
WTAD	†	500	3	Quincy, Ill.

B. B. Musselman  
Peoria Broadcasting Co.  
Allentown Call Publishing Co., Inc.  
Illinois Broadcasting Corp.

## 1450 kilocycles 206.8 meters

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KTBS	*	1000	N	Shreveport, La.
WBMS	†	250	1	Hackensack, N. J.
WGAR	†	500	B	Cleveland, Ohio
WHOM	*	500	1	Jersey City, N. J.
WNJ	*	250	1	Newark, N. J.
WSAR	*	250	---	Fall River, Mass.
WTFI	--	500	---	Athens, Ga.

Tri-State Broadcasting System, Inc.  
WBMS Broadcasting Corp.  
WGAR Broadcasting Co.  
New Jersey Broadcasting Corp.  
Radio Investment Co.  
Doughty & Welch Electric Co., Inc.  
Toccoa Falls Broadcasting Co.

## 1460 kilocycles 205.4 meters

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KSTP	*	10000	N	St. Paul, Minn.
WJSV	*	10000	---	Alexandria, Va.

National Battery Broadcasting Co.  
WJSV, Inc.

## 1470 kilocycles 204.0 meters

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KGA	†	5000	N	Spokane, Wash.
WLAC	*	5000	C	Nashville, Tenn.

Northwest Broadcasting System, Inc.  
Life & Casualty Insurance Co.

## 1480 kilocycles 202.6 meters

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KFJF	*	5000	C	Oklahoma City
WKBW	*	5000	C	Buffalo, N. Y.

National Radio Mfg. Co.  
Buffalo Broadcasting Co., Lessees

## 1490 kilocycles 201.2 meters

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WCHI	*	5000	1	Chicago, Ill.
WCKY	*	5000	1N	Covington, Ky.

Midland Broadcasting Company  
L. B. Wilson, Inc.

## 1500 kilocycles 199.9 meters

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CMBQ	--	50	---	Havana, Cuba
CMBR	--	15	---	Havana, Cuba
KDB	*	100	C	Santa Barbara, Cal.
KCFI	*	100	+	Corpus Christi, Texas
KGFK	†	50	---	Moorhead, Minn.
KGIZ	†	100	---	Grant City, Mo.
KGKB	*	100	---	Tyler, Texas
KGKY	*	100	---	Scottsbluff, Nebr.
KNOW	†	100	---	Austin, Texas
KPJM	*	100	---	Prescott, Arizona
KPO	†	50	---	Wenatchee, Wash.
KREG	†	100	---	Santa Ana, Cal.
KXO	*	100	---	El Centro, Cal.
WEDV	†	100	---	Rome, Ga.
WKBV	*	100	+	Connersville, Ind.
WKBZ	†	50	---	Ludington, Mich.
WLBX	*	100	1	Long Island City, N. Y.
WLQE	*	100	+	Boston, Mass.
WMBB	†	100	---	Newport, R. I.
WMBQ	*	100	1	Brooklyn, N. Y.
WMIL	†	100	1	Brooklyn, N. Y.
WMPC	†	100	---	Lapeer, Mich.
WNEF	*	100	---	Binghamton, N. Y.
WOPI	*	100	---	Bristol, Tenn.
WPEN	*	100	+	Philadelphia, Pa.
WRDW	*	100	---	Augusta, Ga.
WSYB	†	100	+	Rutland, Vt.
WWRL	*	100	1	Woodside, N. Y.
WWSW	*	100	---	Pittsburgh, Pa.
XETZ	--	100	---	Coyoacan, D. F.
WHEF	--	100	CP+	Kosciusku, Miss.

Gali-Sardinas  
Tomas Basal  
Santa Barbara Broadcasters, Ltd.  
Eagle Broadcasting Co., Inc.  
Red River Broadcasting Co., Inc.  
Grant City Park Corp.  
East Texas Brdcast. Co.  
Hilliard Co., Inc.  
KNOW Broadcasting Co.  
A. P. Miller  
Wescoast Broadcasting Co.  
J. S. Edwards  
E. R. Irey and F. M. Bowles  
Rome Broadcasting Corp.  
Knox Battery & Electric Co.  
K. L. Ashbacher  
John N. Brahy  
Boston Broadcasting Co.  
LeRoy Joseph Beebe  
Paul J. Gollhofer  
Arthur Faske  
First M. P. Church  
Howitt, Wood Radio Co., Inc.  
Radiophone Brdcast. Station, Inc.  
Wm. Penn Broadcasting Co.  
Musicove, Inc.  
Philip Weiss Music Co.  
Long Island Broadcasting Corp.  
Walker & Downing Radio Corp.  
Manuel Zetina  
Attala Milling & Produce Co.

30 Sept 13  
 Shreveport  
 Mass. station  
 hotel  
 11.5  
 KCYS  
 1500  
 MTRS.  
 199.9  
 DIAL  
 0

# INDEX BY LOCATIONS WITH MAP KEY

Columbia: C. National: Red, R; Blue, B; Both, N.

## ALABAMA

	Watts		Keys.
Anniston O-22	100	WFDW	1420
Birmingham O-21	5000	WAPI N	1140
	500	WBRC C	930
	100	WKBC	1310
	100	WJBY	1210
Gadsden O-21	50	WBHS	1200
Huntsville N-21	500	WODX C	1410
Mobile Q-20	500	WSFA C	1410
Montgomery P-21	500		

## ALASKA

Anchorage	250	KFQD	1230
Ketchikan	500	KGBU	900

## ARIZONA

Flagstaff M-7	100	KFXV	1420
Jerome M-6	100	KCRJ	1310
Phoenix N-6	500	KOY C	1390
	500	KTAR N	620
Prescott M-6	100	KPJM	1500
Tucson O-7	100	KGAR	1370
	500	KVOA	1260
<i>YUMA</i>	<i>100</i>	<i>KUMA</i>	<i>1400</i>

## ARKANSAS

Blytheville M-19	50	KLCN	1290
Fayetteville M-16	1000	KUOA	1390
Fort Smith N-16	50	KFPV	1340
Hot Springs N-17	10000	KTHS N	1040
Little Rock N-17	250	KARK	890
	100	KGHI	1200
	1000	KLRA C	1390
Paragould M-18	100	KBTM	1200
Texarkana O-17	100	KCMC	1420

## CALIFORNIA

Bakersfield L-3	100	KERN C	1200
Berkeley J-2	100	KRE	1370
Beverly Hills M-3	500	KMPC	710
Burbank M-3	500	KELW	780
El Centro N-4	100	KXO	1500
Fresno K-2	100	KMJ	1210
Hollywood M-3	1000	KFWB	950
	500	KMTR	570
	5000	KNX	1050
Long Beach M-3	1000	KFOX	1250
	1000	KGER	1360
Los Angeles M-3	1000	KECA N	1430
	1000	KFAC	1300
	50000	KFI N	640
	500	KFSG	1120
	250	KFVD	1000
	100	KGJ	1200
	1000	KHJ C	900
	500	KRKD	1120
	500	KTM	780
Oakland J-1	250	KLS	1440
	500	KLX	880
	500	KROW	930
Pasadena M-3	50	KPPC	1210
Sacramento J-2	100	KFBK	1310
San Bernardino M-3	100	KFXM	1210
San Diego N-3	500	KFSD	600
	500	KGB C	1330
San Francisco J-1	1000	KFRC C	610
	500	KFWI	930
	100	KGGC	1420
	7500	KGO N	790
	100	KJBS	1070
	5000	KPO N	680
	1000	KTAB	560
	1000	KYA B	1230

San Jose J-1	500	KQW	1010
Santa Ana M-3	100	KREG	1500
Santa Barbara M-2	100	KDB C	1500
Stockton J-2	250	KGDM	1100
	100	KWG	1200

## COLORADO

Colorado Springs K-11	1000	KVOR C	1270
Denver K-11	500	KFEL	920
	500	KFXF	920
	1000	KLZ C	560
	12500	KOA N	830
	500	KPOF	880
Fort Morgan J-11	100	KGEW	1200
Grand Junction K-9	100	KFXJ	1310
Greeley J-11	500	KPKA	880
Pueblo L-11	250	KGHF	1320
Trinidad L-11	100	KGW	1420
Yuma J-12	100	KGEK	1200
<i>LAMAR</i>	<i>100</i>	<i>KLDW</i>	<i>1400</i>

## CONNECTICUT

Bridgeport H-27	250	WICC	600
Hartford H-27	500	WDRS C	1330
	5000	WTIC R	1060
Storrs H-28	250	WCAC	600

## DELAWARE

Wilmington J-26	250	WDEL	1120
	100	WILM	1420

## DISTRICT OF COLUMBIA

Washington J-26	250	WMAL C	630
	500	WRC R	950
	100	WOL	1310

## FLORIDA

Clearwater R-24	1000	WFLA N	620
Gainesville Q-24	5000	WRUF C	830
Jacksonville Q-24	1000	WJAX N	900
Miami T-25	1000	WTOG N	1300
	1000	WQAM C	560
Orlando R-24	250	WDBO C	1120
Pensacola Q-21	500	WCOA	1340
St. Petersburg S-24	1000	WSUN	620
Tampa R-24	1000	WDAE C	1220
	100	WMBR	1370

## GEORGIA

Americus P-22	100	WENC	1420
Athens O-23	500	WTFI	1450
Atlanta O-22	250	WGST C	890
	100	WJTL	1370
	5000	WSB N	740
Augusta O-23	100	WRDW	1500
Columbus O-22	50	WRBL	1200
Macon O-23	500	WMAZ	1180
Rome N-22	100	WFDV	1500
Savannah O-24	500	WTOG C	1260
Thomasville Q-22	100	WQDX	1210

## HAWAII

Honolulu	250	KGMB C	1320
	1000	KGU R	750

## IDAHO

Boise G-5	1000	KIDO	1350
Idaho Falls G-7	250	KID	1320
Nampa G-5	100	KFXD	1200
Pocatello H-7	250	KSEI	900
Sand Point D-6	100	KGKX	1420
Twin Falls H-6	500	KTFI	1240

# INDEX BY LOCATIONS WITH MAP KEY

Columbia: C. National: Red, R; Blue, B; Both, N.

## ILLINOIS

	Watts		Keys.
Carthage J-18	50	WCAZ	1070
Chicago I-20	10000	KFKX	1020
	10000	KYW N	1020
	500	WAAF	920
	25000	WBMM C	770
	1500	WCFL R	970
	5000	WCHI	1490
	100	WCRW	1210
	100	WEDC	1210
	50000	WENR N	870
	500	WGES	1360
	25000	WGN C	720
	1000	WIBO	560
	50000	WLS N	870
	5000	WMAQ N	670
	500	WPCC	1080
	100	WSBC	1210
Cicero I-20	100	WEHS	1420
	100	WHFC	1420
	100	WKBI	1420
	100	WJBL	1200
Decatur K-19	100	WKBS	1310
Galesburg J-18	100	WEBQ	1210
Harrisburg L-19	100	WCLS	1310
Joliet I-19	100	WKBB	1310
	100	WJBC	1200
La Salle J-19	100	WJJD	1130
Mooseheart I-19	20000	WJJD	1130
Peoria Heights J-19	500	WMED C	1440
Quincy K-18	500	WTAD	1440
Rockford I-19	500	KFLV	1410
Rock Island I-18	100	WHBF	1210
Springfield K-19	100	WCBS	1210
	100	WTAX	1210
Tuscola K-20	100	WDZ	1070
Urbana J-20	250	WILL	890
Zion I-20	5000	WCBD	1080

## INDIANA

Anderson J-21	100	WHBU	1210
Connorsville K-21	100	WKBV	1500
Culver I-20	500	WCMA	1400
Elkhart I-21	50	WJAK	1310
Evansville L-20	500	WGBF	630
Fort Wayne J-21	100	WGL C	1370
	10000	WOWO C	1160
Gary I-20	1000	WJKS	1360
Hammond I-20	100	WWAE	1200
Indianapolis J-21	1000	WFBM C	1230
	500	WKBF	1400
Lafayette J-20	500	WBAA	1400
Muncie J-21	50	WLBC	1310
South Bend I-20	100	WFAM	1200
	500	WSBT C	1230
Terre Haute K-20	100	WBOW	1310

## IOWA

Ames I-17	5000	WOI	640
Boone I-17	100	KFGQ	1310
Cedar Rapids I-18	100	KWCR B	1420
Clarinda J-16	500	KSO	1380
Council Bluffs J-16	1000	KOIL B	1260
Davenport I-18	5000	WOC R	1000
Decorah H-18	50	KGCA	1270
	100	KWLK	1270
Des Moines I-17	5000	WHO R	1000
Iowa City I-18	500	WSUI	880
Marshalltown I-17	100	KFBJ	1200
Ottumwa J-17	100	WIAS	1310
Red Oak J-16	100	KICK	1420

Shenandoah J-16	500	KFNF	890
	500	KMA	930
Sioux City I-15	1000	KSCJ C	1330
Waterloo I-17	500	WMT C	600

## KANSAS

Coffeyville M-15	500	KGGF	1010
Dodge City L-13	100	KGNO	1210
Kansas City K-16	100	WLBF	1420
Lawrence K-16	500	KFKU	1220
	1000	WREN B	1220
Manhattan K-15	500	KSAC	580
Milford K-14	5000	KFBI	1050
Topeka K-16	1000	WIBW C	580
Wichita L-15	1000	KFH C	1300

## KENTUCKY

Covington K-22	5000	WCKY N	1490
Hopkinsville M-20	1000	WFIV C	940
Louisville L-21	25000	WHAS C	820
	250	WLAP	1200
Paducah M-19	100	WPAD	1420

## LOUISIANA

Monroe P-18	100	KMLB	1200
New Orleans R-19	100	WABZ	1200
	1000	WDSU C	1250
	100	WJBO	1420
	100	WJBW	1200
	500	WSMB N	1320
	10000	WWL	850
Shreveport P-17	50	KRMD	1310
	1000	KTBS N	1450
	100	KWEA	1210
	10000	KWKH	850

## MAINE

Augusta F-28	100	WRDO	1370
Bangor F-29	100	WABI	1200
	500	WLBZ C	620
Portland F-28	1000	WCSE R	940
Presque Isle D-29	100	WAGM	1420

## MARYLAND

Baltimore J-26	10000	WBAL B	1060
	250	WCAO C	600
	100	WCBM	1370
	500	WFBR R	1270
Cumberland J-25	100	WTBO	1420

## MASSACHUSETTS

Boston G-28	500	WAAB C	1410
	25000	WBZ B	990
	1000	WEEL R	590
	1000	WHDH	830
	100	WLOE	1500
	1000	WNAO C	1230
Fall River H-28	250	WSAR	1450
Lexington G-28	100	WLEY	1370
Needham G-28	500	WBSO	920
New Bedford F-28	100	WNBH	1310
Springfield H-27	1000	WBZA B	990
Worcester G-28	100	WORC C	1200
	250	WTAG R	580

## MICHIGAN

Battle Creek I-21	50	WELL	1420
Bay City H-22	500	WBCM C	1410
Calumet E-19	100	WHDF	1370
Detroit H-22	50	WJBK	1370
	10000	WJR B	750
	100	WMBC	1420

# INDEX BY LOCATIONS WITH MAP KEY

Columbia: C. National: Red, R; Blue, B; Both, N.

Detroit H-22	1000	WWJ	R	920
	1000	WXYZ		1240
East Lansing H-21	1000	WKAR		1040
Flint H-22	100	WDFD		1310
Grand Rapids H-21	500	WASH		1270
	500	WOOD		1270
Ironwood F-18	100	WJMS		1420
Jackson I-21	100	WIBM		1370
Kalamazoo I-21	1000	WKZO		590
Lapeer H-22	100	WMPC		1500
Ludington H-20	50	WKBB		1500
Marquette F-19	100	WBEO		1310
Royal Oak H-22	50	WEXL		1310

## MINNESOTA

Fergus Falls F-15	100	KGDE		1200
Minneapolis G-17	5000	WCCO	C	810
	1000	WDGY		1180
	1000	WRHM		1250
Moorhead F-15	50	KGFK		1500
Northfield G-17	1000	KFMX		1250
	1000	WCAL		1250
St. Paul G-17	1000	WLB		1250
	10000	KSTP	N	1460

## MISSISSIPPI

Greenville O-18	100	WRBQ		1210
Gulfport Q-19	1000	WGCM		590
Hattiesburg Q-19	100	WPFB		1370
Jackson P-19	1000	WJDX	N	1270
Kosciusko O-19	100	WHEF		1500
Laurel P-20	100	WTLN		1310
Meridian P-20	500	WCOC		880
Vicksburg P-18	500	WQBC		1360

## MISSOURI

Cp. Girardeau L-19	100	KFVS		1210
Columbia K-17	500	KFRU		630
Grant City J-16	100	KGJZ		1500
Jefferson City L-17	500	WOS		630
Joplin M-16	100	WMBH		1420
Kansas City K-16	1000	KMBC	C	950
	100	KWKC		1370
	1000	WDAF	N	610
	500	WHB		860
	1000	WOO		1300
St. Joseph K-16	2500	KFEQ		680
	100	KGBX		1310
St. Louis L-18	500	KFUO		550
	100	KFWF		1200
	50000	KMOX	C	1090
	500	KSD	R	550
	1000	KWK	B	1350
	1000	WEW		760
	100	WIL		1200

## MONTANA

Billings F-9	1000	KGHL	B	950
Butte F-7	500	KGJR	N	1360
Great Falls E-8	1000	KFBB		1280
Kalispell D-7	100	KGEZ		1310
Missoula E-7	100	KGVO		1420
Wolf Point E-11	100	KGCX		1310

## NEBRASKA

Clay Center J-14	1000	KMMJ		740
Kearney J-14	100	KGFW		1310
Lincoln J-15	5000	KFAB	C	770
	100	KFOR		1210
	500	WCAJ		590
Norfolk I-15	1000	WIAG		1060
North Platte J-13	500	KGNF		1430
Omaha J-15	500	WAAW		660
	1000	WOW	R	590
Scottsbluff I-11	100	KGKY		1500
York J-15	500	KGBZ		930

<b>NEVADA</b>		Watts	Keys.
Las Vegas L-5	100	KGIX	1420
Reno I-3	500	KOHH	C 1380

## NEW HAMPSHIRE

Laconia G-28	100	WKAU	1310
Manchester G-28	500	WFEA	C 1430
Portsmouth G-28	250	WHEB	740

## NEW JERSEY

Asbury Park I-27	500	WCAP	1280
Atlantic City J-27	5000	WPG	C 1100
Camden I-26	500	WCAM	1280
Hackensack I-27	250	WBMS	1450
Jersey City I-27	300	WAT	940
	500	WHOM	1450
Newark I-27	1000	WAAM	1250
	250	WGCP	1250
	250	WNTJ	1450
	5000	WOR	710
Paterson I-27	1000	WODA	1250
Red Bank I-27	100	WBI	1210
Trenton I-26	500	WOAX	1280
Zarephath I-27	250	WAWZ	1350

## NEW MEXICO

Albuquerque N-7	250	KGGM	1230
Clovis N-11	100	KICA	1370
Raton M-11	50	KGFL	1370
State College P-9	20000	KOB	1180

## NEW YORK

Albany H-27	500	WOKO	C 1430
Auburn H-25	100	WMBO	1310
Binghamton H-26	100	WBNF	1500
Brooklyn I-27	500	WBBC	1400
	1000	WBRR	1300
	500	WCCU	1400
	500	WFOJ	1400
	500	WLTH	1400
	100	WMBQ	1500
	100	WMIL	1500
Buffalo H-24	1000	WBEN	R 900
	100	WBR	1310
	1000	WGR	C 550
	5000	WKBW	C 1480
	50	WSVS	1370
Canton F-26	500	WCAD	1220
Freeport I-27	100	WGBB	1210
Glens Falls G-27	50	WESG	1370
Ithaca H-25	1000	WEAI	1270
	50	WLCI	1210
Jamaica H-27	100	WMRJ	1210
Jamestown H-24	50	WOCL	1210
Long Island City I-27	100	WLBB	1500
New York City I-27	50000	WABC	C 860
	250	WBNX	1350
	50000	WBOQ	860
	250	WCDA	1350
	50000	WEAF	R 660
	500	WEVD	1300
	1000	WFAB	1300
	500	WINS	1180
	250	WHN	1010
	30000	WJZ	B 760
	5000	WLWL	1100
	500	WMCA	570
	250	WMSG	1350
	500	WNYC	810
	1000	WOV	1130
	250	WPAP	1010
	500	WPCH	570
	250	WQAO	1010
	250	WRNY	1010



## INDEX BY LOCATIONS WITH MAP KEY

Columbia: C. National: Red, R; Blue, B; Both, N.

Rochester G-25	5000	WHAM	B	1150
	500	WHEC	C	1430
Saranac Lake F-26	50	WNBZ		1290
Schenectady G-27	50000	WGY	R	790
Syracuse G-25	1000	WFBL	C	1360
	250	WMAC		570
	250	WSYR		570
Troy G-27	500	WHAZ		1300
Tupper Lake F-26	100	WHDL		1420
Utica G-26	100	WIBX		1200
Woodside I-27	100	WWRL		1500
Yonkers I-27	100	WCOH		1210

### NORTH CAROLINA

Asheville M-23	1000	WWNC	N	570
Charlotte M-24	5000	WBT	C	1080
Gastonia M-24	100	WSOC		1210
Greensboro M-24	500	WBIG	C	1440
Raleigh M-25	1000	WPTF	N	680
Wilmington N-26	100	WRAM		1370
Winston-Salem M-24	100	WSJS		1310

### NORTH DAKOTA

Bismarck F-13	1000	KFYR	N	550
Devils Lake E-14	100	KDLR		1210
Fargo F-15	1000	WDAY	N	940
Grand Forks E-15	100	KFJM		1370
Mandan F-13	250	KGCU		1240
Minot E-13	250	KLPM		1240

### OHIO

Akron I-23	1000	WADC	C	1320
Canton I-23	10	WHBC		1200
Cincinnati K-22	100	WFBE		1200
	1000	WKRC	C	550
	50000	WLW	B	700
	500	WSAI	R	1330
Cleveland I-23	500	WGAR	B	1450
	1000	WHK	C	1390
	500	WJAY		610
	50000	WTAM	R	1070
Columbus J-22	500	WAIU		640
	500	WCAH	C	1430
	750	WEOA		570
	100	WSEN		1210
Dayton J-22	200	WSMK		1380
Mansfield J-22	100	WJW		1210
Mount Orab K-22	100	WHBD		1370
Toledo I-22	1000	WSPD	C	1340
Youngstown I-23	500	WKBN	C	570
Zanesville J-23	100	WALR		1210

### OKLAHOMA

Chickasha N-14	250	KOCW		1400
Elk City N-13	100	KGMP		1210
Enid M-14	100	KCRC		1370
Norman N-15	500	WNAD		1010
Oklahoma N-15	5000	KFJF	C	1480
	100	KFXR		1310
	100	KGFG		1370
	1000	WKY	N	900
Ponca City M-15	100	WBBZ		1200
Shawnee N-15	100	KGFF		1420
Tulsa M-15	5000	KVOO	N	1140

### OREGON

Corvallis E-2	1000	KOAC		550
Eugene F-2	100	KORE		1420
Klamath Falls G-3	100	KFJI		1210
Marshfield F-1	100	KOOS		1370
Medford G-2	100	KMED		1310

Portland E-3	5000	KEX	N	1180
	100	KBPS		1420
	500	KFJR		1300
	1000	KGW	N	620
	1000	KOIN	C	940
	500	KTBR		1300
	500	KWJJ		1060
	100	KXL		1420

### PENNSYLVANIA

Allentown I-26	250	WCBA		1440
	250	WSAN		1440
Altoona I-25	100	WFBG		1310
Carbondale H-26	10	WNBW		1200
Elkins Park I-26	25	WIBG		930
Erie H-24	100	WERE		1420
Grove City I-24	100	WSAJ		1310
Harrisburg I-25	500	WBAK		1430
	100	WCOD		1200
	500	WHP	C	1430
Johnstown J-24	100	WJAC		1310
Lancaster I-26	100	WGAL		1310
	100	WKJK		1200
	100	WJBU		1210
Lewisburg I-26	100	WLBW	C	1260
Oil City I-24	500	WCAU	C	1170
Philadelphia I-26	10000	WDAS	C	1370
	500	WFAN	C	610
	500	WFI	R	560
	100	WHAT		1310
	500	WIP	C	610
	500	WLIT	R	560
	100	WPEN		1500
	250	WRAX		1020
	100	WTEL		1310
Pittsburgh J-24	50000	KDKA	B	980
	500	KQV		1380
	1000	WCAE	R	1220
	1000	WJAS	C	1290
	100	WWSW		1500
Reading I-26	1000	WEEU		830
	100	WRAW		1310
Scranton H-26	250	WGBI		880
	250	WQAN		880
State College I-25	500	WPSC		1230
Washington J-24	100	WNBO		1200
Wilkes-Barre I-26	100	WBAX		1210
	100	WBRE		1310
Williamsport I-25	100	WRAC		1370
	100			1370
York J-26	1000	WORK		1000

### PHILIPPINES

Cebu	500	KZRC		937.5
Manila	1000	KZKA		1110
	50000	KZRM		618.5

### PORTO RICO

San Juan W-34	500	WKAQ		890
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### RHODE ISLAND

Newport H-28	100	WMBA		1500
Providence H-28	250	WEAN	C	780
	250	WJAR	R	890
	100	WPAW		1210
	100	WPRO		1210

### SOUTH CAROLINA

Charleston O-25	500	WCSC		1360
Columbia N-24	500	WIS	N	1010
Spartanburg N-23	100	WSPA		1420

# INDEX BY LOCATIONS WITH MAP KEY

Columbia: C. National: Red, R; Blue, B; Both, N.

SOUTH DAKOTA			
	Watts		Keys.
Brookings H-15	500	KFDY	550
Huron H-14	100	KGDY	1200
Mitchell H-14	100	KGDA	1370
Pierre G-13	200	KGFX	630
Rapid City H-12	100	WCAT	1200
Sioux Falls H-15	2500	KSOO	1110
Vermillion I-15	500	KUSD	890
Watertown G-15	100	KGCR	1210
Yankton I-15	1000	WNAX C	570

TENNESSEE			
	Watts		Keys.
Bristol L-23	100	WOPI	1500
Chattanooga N-21	1000	WDOD C	1280
Jackson N-20	100	WTJS	1310
Knoxville M-22	50	WFBC	1200
	1000	WNOX C	560
	100	WROL	1310
Memphis N-19	100	WHBQ	1370
	500	WMC N	780
	500	WNBR	1430
	500	WREC	600
Nashville M-21	5000	WLAC C C C	1470
	5000	WSM N	650
Springfield M-20	100	WSIX	1210

TEXAS			
	Watts		Keys.
Amarillo N-12	1000	KGRS	1410
	1000	WDAG	1410
Austin Q-14	100	KNOW	1500
Beaumont R-17	500	KFDM	560
Brownsville U-15	500	KWWG	1260
College Sta. Q-15	500	WTAW	1120
Corpus Christi S-14	100	KGFI	1500
Dallas P-15	10000	KRLD	1040
	50000	WFAA C N	800
	500	WRR C	1280
Dublin P-14	100	KFPL	1310
El Paso P-9	100	KTSM	1310
	100	WDAH	1310
Fort Worth P-15	100	KFJZ	1370
	1000	KTAT	1240
	10000	WBAP N	800
Galveston R-16	100	KFLX	1370
	500	KFUL	1290
Greenville O-15	15	KFPM	1310
Harlingen T-14	500	KRGV	1260
Houston R-16	1000	KPRC N	920
	100	KTLK	1310
	500	KTRH C	1120
	100	KXYZ	1420
Lubbock O-12	100	KFYD	1310
San Angelo Q-13	100	KGKL	1370
San Antonio R-14	100	KABC	1420
	100	KMAC	1370
	100	KONO	1370
	1000	KTSA C N	1290
	50000	WOAI N	1190
Tyler P-16	100	KGKB	1500
Waco Q-15	1000	WACO C	1240
Wichita Falls O-14	250	KGKO	570

UTAH			
	Watts		Keys.
Ogden I-7	500	KLO	1400
Salt Lake City I-7	1000	KDYL C	1290
	5000	KSL N	1130

VERMONT			
	Watts		Keys.
Burlington F-27	100	WCAX	1200
Rutland G-27	100	WSYB	1500
St. Albans F-27	100	WQDM	1370
Springfield G-27	10	WNBX	1200
Waterbury F-27	50	WDEV	1420

VIRGINIA			
	Watts		Keys.
Alexandria K-26	10000	WJSV	1460
Arlington J-25	1000	NAA	690
Danville L-25	100	WBTM	1370
Emory L-23	500	WEHC	1350
Lynchburg L-25	100	WLVA	1370
Newport News L-26	100	WGH	1310
Norfolk L-26	500	WPOR	780
	500	WTAR C	780
Petersburg L-26	100	WLBG	1200
Richmond K-26	100	WBBL	1210
	100	WMBG C N C	1210
	5000	WRVA C N C	1110
Roanoke L-24	250	WDBJ C	930
	250	WRBX	1410

WASHINGTON			
	Watts		Keys.
Aberdeen D-2	100	KXRO	1310
Bellingham C-3	100	KVOS	1200
Everett C-3	50	KFBL	1370
Olympia D-3	100	KGY	1210
Pullman E-5	1000	KWSC	1220
Seattle C-3	5000	KJR	970
	1000	KOL	1270
	1000	KOMO N C N	920
	100	KPCB	650
	50	KRSC	1120
	1000	KTW	1220
	100	KVL	1370
	500	KXA	760
Spokane D-5	100	KFIO	1120
	1000	KFPY	1340
	5000	KGA	1470
	1000	KHQ	590
Tacoma D-3	250	KMO	1330
	1000	KVI C	570
Walla Walla E-5	100	KUJ	1370
Wenatchee D-4	50	KPQ	1500
Yakima D-4	100	KIT	1310

WEST VIRGINIA			
	Watts		Keys.
Bluefield L-24	250	WHIS	1410
Charleston K-23	250	WOBU	580
Fairmont J-24	250	WMMN	890
Huntington K-23	250	WSAZ	580
Wheeling J-24	5000	WWVA C	1160

WISCONSIN			
	Watts		Keys.
Eau Claire G-18	1000	WTAQ C	1330
Fond du Lac H-19	100	KFIZ	1420
Green Bay G-19	100	WHBY	1200
Janesville I-19	100	WCLO	1200
La Crosse H-18	1000	WKBH C	1380
Madison H-19	750	WHA	940
	500	WIBA N	1280
Manitowoc H-20	100	WOMT	1210
Milwaukee H-19	250	WHAD	1120
	250	WISN C	1120
	1000	WTMJ N	620
	100	WIBU	1210
Poynette H-19	100	WRJN	1370
Racine I-20	100	WRBN	1370
Sheboygan H-20	500	WHBL	1410
Stevens Point G-19	2000	WLBL	900
Superior F-17	1000	WEBC N	1290

WYOMING			
	Watts		Keys.
Casper H-10	5000	KDFN	1440

## CANADA

ALBERTA			
	Watts		Keys.
Calgary B-7	500	CFAC	690
	10000	CFCN	985
	500	CJCJ	690

# INDEX BY LOCATIONS WITH MAP KEY

Columbia: C. National: Red, R; Blue, B; Both, N.

Edmonton A-8	250	CHMA	580
	500	CJCA	745
	500	CKUA	580
Lethbridge C-8	100	CJOC	1120
Red Deer A-8	1000	CKLC	840
	1000	CNRD	840

## BRITISH COLUMBIA

Chilliwack B-3	100	CHWK	665
Kamloops B-5	100	CFJC	1120
Kelowna C-5	100	CKOV	1200
Trail C-6	25	10-AT	1155
Vancouver B-3	100	CHLS	730
	500	CJOR	1210
	100	CKCD	730
	50	CKFC	730
	100	CKMO	730
	100	CKWX	730
	500	CNRV	1030
	500	CFCT	630

Victoria C-3

## MANITOBA

Brandon D-14	500	CKX	930
Winnipeg D-15	5000	CKY	780
	5000	CNRW	780

## NEW BRUNSWICK

Fredericton D-29	50	CFNB	1210
Moncton D-30	500	CNRA	630
St. John D-30	500	CFBO	890

## NOVA SCOTIA

Glace Bay C-32	2000	VAS	685
Halifax E-31	500	CHNS	815
	500	CNRH	815
	100	VCX	690
Sydney C-32	50	CJCB	880
Wolfville D-31	50	CKTC	1010

## ONTARIO

Brantford H-23	15	10-BQ	1200
Chatham H-22	250	CFCO	1210
Cobalt E-23	100	CKMC	1210
Ft. William E-19	50	CKPR	890
Hamilton H-24	500	CHCS	630
	50	CHML	880
	500	CKOC	635

Kingston G-25	50	CFRC	930
London H-23	5000	CJGC	595
	5000	CNRL	595

North Bay E-23	100	CFCH	930
Ottawa F-25	100	CKCO	890
	500	CNRO	600

Prescott F-25	100	CFLC	915
Preston H-23	100	CKPC	880
St. Catharines H-24	500	CKTB	635
Toronto G-24	500	CFCA	1120
	500	CFLC	580
	10000	CFRB	690
	500	CKCL	580

	10000	CKGW	840
	500	CKNC	960
	500	CNRT	1120
	4000	CNRY	690
	5000	CPRY	840
	100	CKCR	645
	5000	CKWO	540

Waterloo G-23	100	CKCR	645
Windsor H-22	5000	CKWO	540
Wingham G-23	15	10-BP	1200

## PRINCE EDWARD ISLAND

Charlottetown C-31	500	CFCY	580
	100	CHCK	960
Summerside C-31	500	CHGS	1120

## QUEBEC

Montreal E-26	500	CFCF	N 1030
	5000	CHYC	730
	5000	CKAC	C 730
	5000	CNRM	730

		Watts	Kcys.
Quebec D-27	100	CHRC	645
	100	CKCI	645
	50	CKCV	880
	50	CNRQ	880

## SASKATCHEWAN

Fleming C-13	1000	CJRW	665
Moose Jaw C-11	500	CJRM	665
	25	10-AB	1200

Regina C-12	500	CHWC	960
	500	CJBR	960
	500	CKCK	960
	500	CNRR	960

Saskatoon B-11	500	CFQC	910
Yorkton B-13	500	CNRS	910
	500	CJGX	630

## NEWFOUNDLAND

St. Johns A-35	75	VOAS	810
	30	VONA	950
	500	VOWR	675

## CENTRAL AMERICA

### COSTA RICA

Heredia FF-23	15	TIANRH	980
San Jose FF-23	50	TICR	911

### GUATAMALA

Guatemala CC-19	50	TGW	570
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### HONDURAS

Tegucigalpa CC-21	2300	HRB	1370
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### SALVADOR

Salvador CC-19	500	RUS	664
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## MEXICO

### AGUASCALIENTES

Aguascalientes W-10	250	XFC	810
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### BAJA CALIFORNIA

Tijuana N-3	300	XEFD	845
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### CHIHUAHUA

Chihuahua R-9	100	XEFI	1000
	250	XFF	875
Juarez P-9	101	XEJ	1000
	5000	XEQ	750

### COAHUILA

Saltillo, Coah. U-12	25	XEL	1000
Torreón U-11	125	XETB	1380
	100	XETG	1000

Villa Acuna R-12	75000	XER	735
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### D. F.

Coyoacan Y-13	100	XETZ	1500
Mexico City Y-13	1000	XEB	1030
	250	XEFA	1250
	250	XEG	1070
	101	XEK	990
	1000	XEN	711
	5000	XEO	940
	500	XETA	1140
	100	XETQ	1230
	2500	XETR	610
	5000	XEW	910
	500	XEX	1210
	500	XEZ	780
	2000	XFG	638
	1000	XFI	818
	500	XFX	867
	50	XEC	1000

Toluca, Y-12

CFAC 690		CKCK 960		CMCF 890		CNRH 815	
Calgary, Alta.		Regina, Sask.		Havana, Cuba		Halifax, N. S.	
CFBO 890		CKCL 580		CMCG 1395		CNRL 595	
St. John, N. B.		Toronto, Ont.		Havana, Cuba		London, Ont.	
CFCA 1120		CKCO 890		CMCH 1395		CNRM 730	
Toronto, Ont.		Ottawa, Ont.		Havana, Cuba		Montreal, Que.	
CFCF 1030		CKCR 645		CMCJ 630		CNRO 600	
Montreal, Que.		Waterloo, Ont.		Havana, Cuba		Ottawa, Ont.	
CFCH 930		CKCV 880		CMCM 1395		CNRQ 880	
North Bay, Ont.		Quebec, Que.		Havana, Cuba		Quebec, Que.	
CFCL 580		CKFC 730		CMCN 925		CNRR 960	
Toronto, Ont.		Vancouver, B. C.		Havana, Cuba		Regina, Sask.	
CFCN 985	X	CKGW 840	X	CMCO 660		CNRS 910	
Calgary, Alta.		Toronto, Ont.		Havana, Cuba		Saskatoon, Sask.	
CFCO 1210	X	CKIK 1010	X	CMCQ 1140		CNRT 1120	
Chatham, Ont.		Wolfville, N. S.		Havana, Cuba		Toronto, Ont.	
CFCT 630		CKLC 840		CMCR 1345		CNRV 1030	X
Victoria, B. C.		Red Deer, Alta.		Havana, Cuba		Vancouver, B. C.	
CFCY 580		CKMC 1210		CMCU 1270		CNBW 780	
Ch'lottet'n, P.E.I.		Cobalt, Int.		Havana, Cuba		Winnipeg, Man.	
CFJC 1120		CKMO 730	X	CMCW 1270		CNRX 690	
Kamloops, B. C.		Vancouver, B. C.		Havana, Cuba		Toronto, Ont.	
CFLC 915		CKNK 960		CMCY 1345		CPRY 840	
Prescott, Ont.		Toronto, Ont.		Havana, Cuba		Toronto, Ont.	
CFNB 1210		CKOC 635		CMDB 1395		HHK 920	
Fredricton, N.B.		Hamilton, Ont.		Havana, Cuba		Port au Prince, H.	
CFQC 910		CKOV 1200		CMDC 660		HIX 630	
Saskatoon, Sask.		Kelowna, B. C.		Havana, Cuba		Santo Domingo	
CFRB 690		CKPC 880		CMGB 1205		HRB 1370	
Toronto, Ont.		Preston, Ont.		Matanzas, Cuba		Tequiguilpa	
CFRC 930		CKPR 890		CMGC 820		KABC 1420	X
Kingston, Ont.		Ft. William, Ont.		Matanzas, Cuba		San Antonio, Tex.	
CHCK 960		CKTB 635		CMGE 1375		KARK 890	
Ch'lottet'n, P.E.I.		St. Cath., Ont.		Cardenas, Cuba		Lit. Rock, Ark.	
CHCS 630		CKUA 580		CMGF 987		KBPS 1420	
Hamilton, Ont.		Edmonton, Alta.		Matanzas, Cuba		Portland, Ore.	
CHGS 1120		CKWO 540		CMGH 1040		KBTFM 1200	
Sum'r'side, P.E.I.		Windsor, Ont.		Matanzas, Cuba		Paragould, Ark.	
CHLS 730	X	CKWX 730	X	CMGI 1150		KCMC 1420	
Vancouver, B. C.		Vancouver, B. C.		Colon, Cuba		Texarkana, Ark.	
CHMA 580	X	CKX 930	X	CMHC 790		KCRC 1370	
Edmonton, Alta.		Brandon, Man.		Tuinucu, Cuba		Enid, Okla.	
CHML 880		CKY 780		CMHD 950		KEJ 1310	
Hamilton, Ont.		CKY 780		Caibarien, Cuba		Jerome, Ariz.	
CHNS 815		CKY 780		CMHI 1030		KDB 1500	X
Halifax, N. S.		CKY 780		Santa Clara, Cu		S. Barbara, Cal.	
CHRC 645		CKY 780		CMHJ 1125		KDFN 1440	X
Quebec, Que.		CKY 780		Cienfuegos, Cuba		Casper, Wyo.	
CHWC 960	X	CKY 780		CMJC 1382		KDKA 980	X
Regina, Sask.		CKY 780		Camaguey, Cuba		Pittsburgh, Pa.	
CHWK 665		CKY 780		CMJE 856		KDLR 1210	X
Chilliwack, B. C.		CKY 780		Camaguey, Cuba		Devils Lake, N.D.	
CHYC 730		CKY 780		CMJF 930		KDYL 1290	X
Montreal, Que.		CKY 780		Camaguey, Cuba		Salt Lake City	
CJBR 960		CKY 780		CMJG 1050		KECA 1430	X
Regina, Sask.		CKY 780		Camaguey, Cuba		Los Angeles, Cal.	
CJCA 745		CKY 780		CMJH 1017		KELW 780	X
Edmonton, Alta.		CKY 780		Ciego de Avila, C.		Burbank, Cal.	
CJCB 880		CKY 780		CMJI 1260		KERN 1200	X
Sydney, N. S.		CKY 780		Ciego de Avila, C.		Bakersfield, Cal.	
CJCC 690		CKY 780		CMJL 960		KEX 1180	X
Calgary, Alta.		CKY 780		Camaguey, Cuba		Portland, Ore.	
CJCG 595		CKY 780		CMK 730		KFAB 770	X
London, Ont.		CKY 780		Havana, Cuba		Lincoln, Neb.	
CJGX 630		CKY 780		CMKC 1034		KFAC 1300	X
Yorkton, Sask.		CKY 780		Santiago, Cuba		Los Angeles, Cal.	
CJOC 1120		CKY 780		CMKJ 1300		KFB 1280	X
Lethbridge, Alta.		CKY 780		Guantanamo, C.		Great Fis., Mont.	
CJOR 1210	X	CKY 780		CMK 630		KFB 1050	X
Vancouver, B. C.		CKY 780		Havana, Cuba		Milford, Kans.	
CJRM 665	X	CKY 780		CMW 588		KFBK 1310	X
Moose Jaw, Sask.		CKY 780		Havana, Cuba		Sacramento, Cal.	
CJRW 665	X	CKY 780		CMX 890		KFBL 1370	X
Fleming, Sask.		CKY 780		Havana, Cuba		Everett, Wash.	
CKAC 730		CKY 780		CNRA 630		KFDM 560	X
Montreal, Que.		CKY 780		Moncton, N. B.		Beaumont, Tex.	
CKCD 730		CKY 780		CNRD 840		KFDY 550	X
Vancouver, B. C.		CKY 780		Red Deer, Alta.		Brookings, S. D.	
CKCI 645		CKY 780					
Quebec, Que.		CKY 780					

KFEL 920	KFXD 1200	KGHI 1200	KMAC 1370
Denver, Colo.	Nampa, Idaho	Little Rock, Ark.	San Antonio, Tex.
KFEQ 680	KFXF 920	KGHL 950	KMBC 950
St. Joseph, Mo.	Denver, Colo.	Billings, Mont.	Kan. City Mo.
KFGQ 1310	KFXJ 1310	KGIR 1360	KMED 1310
Boone, Iowa	Grand Junc., Col.	Butte, Mont.	Medford, Ore.
KFH 1390	KFXM 1210	KGIV 1420	KMJ 1210
Wichita, Kansas	San Ber'd no, Cal.	Trinidad, Colo.	Fresno, Cal.
KFI 640	KFXR 1310	KGIX 1420	KMLB 1200
Los Angeles, Cal.	Oklahoma City	Las Vegas, Nev.	Monroe, La.
KFIO 1120	KFXY 1420	KGIZ 1500	KMMJ 740
Spokane, Wash.	Flagstaff, Ariz.	Grant City, Mo	Klay Ctr., Nebr.
KFIZ 1420	KFYO 1310	KGKB 1500	KMO 1330
Fond du Lac, Wis.	Lubbock, Texas	Tyler, Texas	Tacoma, Wash.
KFJB 1200	KFYR 55	KGKL 1370	KMOX 1090
Marshalltown, Ia.	Bismarck, N D	San Angelo, Tex.	St. Louis, Mo.
KFJF 1430	KGA 1470	KGEO 570	KMPJ 710
Oklahoma City	Spokane, Wash.	Wichita Fils., Tex.	Beverly Hills, Cal
KFJI 1210	KGAR 1370	KGKY 1420	KMTB 570
Klamath Falls Ore	Tucson, Arizona	Sand Point, Idaho	Hollywood, Cal.
KFJM 1370	KG B 1330	KGKY 1500	KNOW 1500
Grd. Forks, N.D.	San Diego, Cal.	Scottsbluff, Nebr.	Austin, Tex.
KFJR 1300	KGBU 900	KGMB 1320	KNX 1050
Portland, Ore.	Ketchikan, Al'ka	Honolulu, T. H.	Hollywood, Cal.
KFJZ 1370	KG BX 1310	KGMP 1210	KOA 830
Ft. Worth, Tex.	St. Joseph, Mo.	Elk City, Okla.	Denver, Colo.
KFKA 880	KGBZ 930	KGNF 1430	KOAC 550
Greeley, Colo.	York, Nebr.	No. Platte, Nebr.	Corvallis, Ore.
KFKU 1220	KGCA 1270	KGNO 1210	KOB 1180
Lawrence, Kans.	Decorah, Iowa	Dodge City, Kas.	State Col., N. M.
KFKX 1020	KGCR 1210	KGO 790	KOCW 1400
Chicago, Ill.	Watertown, S. D.	San F'nisco, Cal.	Chickasha, Okla.
KFLV 1410	KGCU 1240	KGRS 1410	KOH 1380
Rockford, Ill.	Mandan, N. D.	Amarillo, Texas	Reno, Nevada
KFLX 1370	KG CX 1310	KGU 750	KOIL 1260
Galveston, Tex.	Wolf P't, Mont.	Honolulu, Hawaii	Council Bluffs, Ia.
KFMX 1250	KGDA 1370	KGVO 1420	KOIN 940
N'rhfield, Minn.	Mitchell, S. D.	Missoula, Mont.	Portland, Ore.
KFNF 890	KGDE 1200	KGW 620	KOL 1270
Shenandoah, Ia.	Fergus Falls, Minn	Portland, Ore.	Seattle, Wash.
KFOR 1210	KGDM 1100	KG Y 1210	KOMO 920
Lincoln, Nebr.	Stockton, Cal.	Olympia, Wash.	Seattle, Wash.
KFOX 1250	KG DY 1200	KHJ 900	KONO 1370
Long Beach, Cal.	Huron, S. D.	Los Angeles, Cal.	San Antonio, Tex.
KFPL 1310	KG EK 1200	KHJ 900	KOOS 1370
Dublin, Texas	Yuma, Colo.	KHK 590	Marshfield, Ore.
KFPM 1310	KGER 1360	Spokane, Wash.	KORE 1420
Greenville, Texas	Long Beach, Cal.	KICA 1370	Eugene, Ore.
KFPW 1340	KG EW 1200	Clovis, N. M.	KOY 1390
Ft. Smith, Ark.	Ft. Morgan, Colo.	KICK 1420	Phoenix, Arizona
KFPY 1340	KG EZ 1310	Red Oak, Iowa	KPCB 650
Spokane, Wash.	Kalispell, Mont.	KID 1320	Seattle, Wash.
KFQD 1290	KGFF 1420	Idaho Falls, 'da.	KPJM 1500
Anchorage, Alas.	Shawnee, Okla.	KIDO 1350	Prescott, Ariz.
KFCB 610	KGFG 1370	Boise, Idaho	KPO 680
San F'nisco, Cal.	KGFG 1370	KIT 1310	San F'nisco, Cal.
KFBU 630	Oklahoma City	Yakima, Wash.	KPOF 880
Columbia, Mo.	KGFI 1500	KJBS 1070	Denver, Colo.
KFSD 600	Corp's Ch'sti, Tex	San F'nisco, Cal.	KPPC 1210
San Diego, Cal.	KGJ 1200	KJR 970	Pasadena, Cal.
KFSG 1120	Los Angeles, Cal.	Seattle, Wash.	KPQ 1500
Los Angeles, Cal.	KGFK 1500	KLCN 1290	Wenatchee, Wash
KFUL 1290	Moorhead, Minn.	Blytheville, Ark.	KPRC 920
Galveston, Texas	KGFL 1370	KLO 1400	Houston, Texas
KFUO 550	Raton, N. M.	Ogden, Utah	KQV 1380
St. Louis, Mo.	KGFW 1310	KLPM 1240	Pittsburgh, Pa.
KFVD 1000	Kearney, Nebr.	Minot, N. Dak.	KQW 1010
Los Angeles, Cal.	KGFX 630	KLRA 1390	San J ose, Cal.
KFVS 1210	Pierre, S. D.	Little Rock, Ark.	KRE 1370
Cape Gir'rd'u, Mo	KGGC 1420	KLS 1440	Berkeley, Cal.
KFWB 950	San F'nisco, Cal.	Oakland, Cal.	KREG 1500
Hollywood, Cal.	KGGF 1010	KLX 880	Santa Ana, Cal.
KFWF 1200	Coffeyville, Kans.	Oakland, Cal.	KRGV 1260
St. Louis, Mo.	KGGM 1230	KLZ 560	Harlingen, Texas
KFWI 930	Albuq'raque, N.M.	Denver, Colo.	KRKD 1120
San F'nisco, Cal.	KGHF 1320	KMA 930	Los Angeles, Cal.
	Pueblo, Colo.	Shenandoah, Ia.	

KRLD 1040 Dallas, Texas	X	KWKC 1370 Kansas City, Mo.		WAPI 1140 Birmingham, Ala.		WCAP 1280 Asbury Pk., N. J.	
KRMD 1310 Shreveport, La.		KWKH 850 Shreveport, La.	X	WASH 1270 Gr. Rapids, Mich.		WCAT 1200 Rapid City, S. D.	
KROW 930 Oakland, Cal.	X	KWLC 1270 Decorah, Iowa		WAWZ 1350 Zarephath, N. J.		WCAU 1170 Philadelphia, Pa.	X
KRSC 1120 Seattle, Wash.		KWSC 1220 Pullman, Wash.	X	WBAA 1400 Lafayette, Ind.		WCAX 1200 Burlington, Vt.	
KSAC 580 Manh'tt'n, Kans.		KWWG 1260 Brownsville, Tex.		WBAB 1430 Harrisburg, Pa.		WCAZ 1070 Carthage, Ill.	
KSCJ 1330 Sloux City, Ia.	X	KXA 760 Seattle, Wash.	X	WBAL 760-1060 Baltimore, Md.		WCBA 1440 Allentown, Pa.	
KSD 550 St. Louis, Mo.		KXL 1420 Portland, Ore.	X	WBAP 800 Fort Worth, Tex.	X	WCBD 1080 Zion, Ill.	
KSET 900 Pocatello, Idaho	X	KXO 1500 El Centro, Cal.	X	WBAX 1210 Wilkes-Barre, Pa.		WCBM 1370 Baltimore, Md.	
KSL 1130 Salt Lake City	X	KXRO 1310 Aberdeen, Wash.	X	WBBC 1400 Brooklyn, N. Y.		WCBS 1210 Springfield, Ill.	
KSO 1380 Clarinda, Iowa	X	KYYZ 1420 Houston, Texas	X	WBBL 1210 Richmond, Va.		WCOC 810 Minneapolis, Minn.	X
KSOO 1110 Sloux Falls, S. D.	X	KYA 1230 San F'nisco, Cal.	X	WBBM 770 Chicago, Ill.	X	WCDA 1350 New York City	
KSTP 1460 St. Paul, Minn.	X	KYW 1020 Chicago, Ill.	X	WBBR 1300 Brooklyn, N. Y.		WCFL 970 Chicago, Ill.	
KTAB 560 San F'nisco, Cal.	X	KZKA 1110 Manilla, P. I.		WBZZ 1200 Ponca City, Okla		WCGU 1400 Brooklyn, N. Y.	
KTAR 620 Phoenix, Ariz.	X	KZRC 937.5 Cebu, P. I.		WBCM 1410 Bay City, Mich.		WCHI 1490 Chicago, Ill.	
KTAT 1240 Ft. Worth, Tex.	X	KZRM 618.5 Manila, P. I.		WBEN 900 Buffalo, N. Y.		WCKY 1490 Covington, Ky.	
KTBR 1300 Portland, Ore.	X	NAA 690 Arlington, Va.		WBEO 1310 Marquette, Mich.		WCLO 1200 Janesville, Wis.	
KTBS 1450 Shreveport, La.	X	RUS 664 Salvador		WBHS 1200 Huntsville, Ala.		WCLS 1310 Joliet, Ill.	
KTPI 1240 Twin Falls, Ida.	X	TGW 570 Guatamala		WBIG 1440 Greensboro, N.C.		WCMA 1400 Culver, Ind.	
KTHS 1040 Hot Spgs., Ark.	X	TICR 911 San Jose, C. R.		WBMS 1450 Hackensack, N.J.		WCOA 1340 Pensacola, Fla.	
KTLC 1310 Houston, Texas	X	TIANRH 980 Heredia, C. R.		WBNX 1350 New York City		WCOO 880 Meridian, Miss.	
KTM 780 Los Angeles, Cal.	X	VAS 685 Glace Bay, N. S.		WBOQ 860 New York City		WOOD 1200 Harrisburg, Pa.	
KTRH 1120 Houston, Texas		VCX 690 Halifax, N. S.		WBOW 1310 Terre Haute, Ind.		WCOH 1210 Yonkers, N. Y.	
KTSA 1290 San Antonio, Tex.	X	VOAS 810 St. John's, N. F.		WBRC 930 Birmingham, Ala.		WCRW 1210 Chicago, Ill.	
KTSM 1310 El Paso, Texas		VONA 950 St. John's, N. F.		WBRE 1310 Wilkes-Barre, Pa.		WCSC 1360 Charleston, S. C.	
KTW 1220 Seattle, Wash.	X	VOWR 675 St. Johns, N. F.		WBRO 920 Needham, Mass.		WCSH 940 Portland, Maine	
KUJ 1370 Walla Wal., Wash.	X	VPN 610 Nassau, B. I.		WBT 1080 Charlotte, N. C.	X	WDAE 1220 Tampa, Fla.	
KUOA 1390 Fayetteville, Ark.		WAAB 1410 Boston, Mass.		WBTM 1370 Danville, Va.		WDAF 610 Kansas City, Mo.	X
KUSD 890 Vermillion, S. D.		WAAF 920 Chicago, Ill.		WBZ 990 Boston, Mass.	X	WDAG 1410 Amarillo, Texas	
KVI 570 Tacoma, Wash.	X	WAAM 1250 Newark, N. J.		WBZA 990 Springfield, Mass.	X	WDAH 1310 El Paso, Texas	
KVL 1370 Seattle, Wash.		WAAT 940 Jersey City, N. J.		WCAC 600 Storrs, Conn.		WDAS 1370 Philadelphia, Pa.	
KVOA 1260 Tucson, Arizona	X	WAAW 660 Omaha, Nebr.	X	WCAD 1220 Canton, N. Y.		WDAY 940 Fargo, N. D.	
KVOO 1140 Tulsa, Okla.	X	WABC 860 New York City	X	WCAE 1220 Pittsburgh, Pa.		WDBJ 930 Roanoke, Va.	
KVOR 1270 Col. Sp'gs, Colo.	X	WABI 1200 Bangor, Maine	X	WCAH 1430 Columbus, Ohio		WDBO 1120 Orlando, Fla.	X
KVOS 1200 Bellingh'm, Wash.		WABZ 1200 New Orleans, La.		WCAG 590 Lincoln, Nebr.		WDEL 1120 Wilmington, Del.	
KWCR 1420 Cedar Rapids, Ia.		WACO 1240 Waco, Texas	X	WCAL 1250 Northfield, Minn.		WDEW 1420 Waterbury, Vt.	
KWEA 1210 Shreveport, La.		WADC 1320 Akron, Ohio		WCAM 1280 Camden, N. J.		WDGY 1180 Minneapolis, Minn.	
KWG 1200 Stockton, Cal.	X	WAGM 1420 Presque Isle, Me.		WCAO 600 Baltimore, Md.		WDDO 1280 Chattanooga, Tenn.	
KWJJ 1060 Portland, Ore.	X	WAIU 640 Columbus, Ohio				WDRG 1330 Hartford, Conn.	
KWK 1350 St. Louis, Mo.	X	WALR 1210 Zanesville, Ohio					

WDSU 1250	X	WFOX 1400		WHN 1010		WJJD 1130	X
New Orleans, La.		Brooklyn, N. Y.		New York City		Mooseheart, Ill.	
WDZ 1070		WGAL 1310		WHO 1000	X	WJKS 1360	
Tuscola, Ill.		Lancaster, Pa.		Des Moines, Ia.		Gary, Ind.	
WEAF 660	X	WGAR 1450		WHOM 1450		WJMS 1420	
New York City		Cleveland, Ohio		Jersey City, N. J.		Ironwood, Mich.	X
WEAI 1270		WGBB 1210		WHP 1430		WJR 750	X
Ithaca, N. Y.		Freeport, N. Y.		Harrisburg, Pa.		Detroit, Mich.	X
WEAN 780		WGBF 630		WIAS 1310		WJSV 1460	X
Providence, R. I.		Evansville, Ind.		Ottumwa, Iowa		Alexandria, Va.	X
WEAO 570		WGBI 880		WIBA 1280		WJTL 1370	
Columbus, Ohio		Scranton, Pa.		Madison, Wis.		Atlanta, Ga.	
WEBC 1290		WGCM 590		WIBG 930		WJW 1210	
Superior, Wis.		WGPC 1250		Elkins Park, Pa.		Mansfield, Ohio	X
WEBQ 1210		Newark, N. J.		WIBM 1370		WJZ 760	
Harrisburg, Ill.		WGES 1360		Jackson, Mich.		New York City	
WEBR 1310		Chicago, Ill.		WIBO 560		WKAQ 890	
Buffalo, N. Y.		WGH 1310		Chicago, Ill.		San Juan, P. R.	
WEDC 1210		Newsp't News, Va.		WIBU 1210		WKAR 1040	
Chicago, Ill.		WGL 1370		Poynette, Wis.		E. Lansing, Mich.	
WEEI 590		Ft. Wayne, Ind.		WIBW 580	X	WEAV 1310	
Boston, Mass.		WGN 720	X	Topeka, Kansas		Laconia, N. H.	
WEUU 830		Chicago, Ill.		WIBX 1200		WKBB 1310	
Reading, Pa.		WGR 550	X	Utica, N. Y.		Joliet, Ill.	
WEHC 1350		Buffalo, N. Y.		WICC 600		WKBC 1310	
Emory, Va.		WGST 890	X	Bridgeport, Conn		Birmingham, Ala.	
WEHS 1420		Atlanta, Ga.		WIL 1200		WKBF 1400	
Cicero, Ill.		WGY 790	X	St. Louis, Mo.		Indianapolis, Ind.	
WELL 1420		Scheneec'dy, N. Y.		WILL 890		WKBH 1380	
Battle C'k, Mich.		WHA 940	X	Urbana, Ill.		La Crosse, Wis.	
WENC 1420		Madison, Wis.		WILM 1420		WKBI 1420	
Americus, Ga.		WHD 1120	X	Wilmington, Del.		Cicero, Ill.	
WENR 870	X	Milwaukee, Wis.		WINS 1180		WKBN 570	
Chicago, Ill.		WHAM 1150	X	New York City		Youngstown, O.	
WERE 1420		Rochester, N. Y.		WIOD 1300		WKBS 1310	
Erie, Pa.		WHAS 820	X	Miami, Fla.		Galesburg, Ill.	
WESG 1370		Louisville, Ky.		WIP 610		WKBV 1500	
Glens Falls, N. Y.		WHAT 1310	X	Philadelphia, Pa.		Connerville, Ind.	
WEVD 1300		Philadelphia, Pa.		WIS 1010		WKBW 1480	
New York City		WHAZ 1300	X	Columbia, S. C.		Buffalo, N. Y.	
WEW 760		Troy, N. Y.		WISN 1120		WKBZ 1500	
St. Louis, Mo.		WHB 860	X	Milwaukee, Wis.		Ludington, Mich.	
WEXL 1310		Kansas City, Mo.		WJAC 1310		WKJC 1200	
Royal Oak, Mich.		WHBC 1200	X	Johnstown, Pa.		Lancaster, Pa.	
WFAA 800		WhBD 1370		WJAG 1060		WKRC 550	
Dallas, Texas		Mt. Orab, Ohio		Norfolk, Nebr.		Cincinnati, Ohio	
WFAB 1300		WHBF 1210	X	WJAK 1310		WKY 900	X
New York City		Rock Island, Ill.		Elkhart, Ind.		Oklahoma City	
WFAM 1200		WHBL 1410	X	WJAR 890		WKZO 590	
So. Bend, Ind.		Sheboygan, Wis.		Providence, R. I.		Kalamazoo, Mich.	
WFAN 610		WHBQ 1370	X	WJAS 1290		WLAC 1470	
Philadelphia, Pa.		Memphis, Tenn.		Pittsburgh, Pa.		Nashville, Tenn.	
WFBC 1200		Anderson, Ind.		WJAX 900		WLAP 1200	
Knoxville, Tenn		Green Bay, Wis.		Jacksonville, Fla.		Louisville, Ky.	
WFBE 1200		WHDF 1370	X	WJAY 610		WLB 1250	
Cincinnati, Ohio		Calumet, Mich.		Cleveland, Ohio		St. Paul, Minn.	
WFBG 1310		WHDH 830	X	WJBC 1200		WLBC 1310	
Altoona, Pa.		Boston, Mass		La Salle, Ill.		Muncie, Ind.	
WFBL 1360		WHDL 1420	X	WJBI 1210		WLBF 1420	
Syracuse, N. Y.		TupperLake, N.Y.		Red Bank, N. J.		Kansas City, Ks.	
WFBM 1230		WHBE 740	X	WJBK 1370		WLBG 1200	
Indianapolis, Ind.		Portsmouth, N.H.		Detroit, Mich.		Ettrick, Va.	
WFBR 1270		WHBC 1430	X	WJBL 1200		WLBL 900	
Baltimore, Md.		Rochester, N. Y.		Decatur, Ill.		Stevens Pt., Wis.	
WFDF 1310		WHBF 1500	X	WJBO 1420		WLBW 1260	
Flint, Mich.		Kosciusko, Miss.		New Orleans, La.		Oil City, Pa.	
WFDV 1500		WHFC 1420	X	WJBU 1210		WLBX 1500	
Rome, Ga.		Cicero, Ill.		Lewisburg, Pa.		L. I. City, N. Y.	
WFDW 1420		WHIS 1410	X	WJBW 1200		WLBZ 620	
Anniston, Ala.		Bluefield, W. Va.		New Orleans, La.		Bangor, Maine	
WFEA 1430		WHK 1390	X	WJBY 1210		WLCl 1210	
Manchester, N.H.		Cleveland, Ohio		Gadsden, Ala.		Ithaca, N. Y.	
WFI 560				WJDX 1270		WLEY 1370	
Philadelphia, Pa.				Jackson, Miss.		Lexington, Mass.	
WFIW 940							
Hopkinsville, Ky.							
WFLA 620							
Clearwater, Fla.							



WLIT 560 Philadelphia, Pa.		WNOX 560 Knoxville, Tenn.		WQDX 1210 Thomasville, Ga.		WSUN 620 St. Petersburg, Fla.	
WLOE 1500 Boston, Mass.		WNYC 810 New York City		WRAC 1370 Williamsport, Pa.		WSVS 1370 Buffalo, N. Y.	
WLS 870 Chicago, Ill.	X	WOAI 1190 San Antonio, Tex.	X	WRAM 1370 Wilmington, N.C.		WSYB 1500 Rutland, Vt.	
WLTH 1400 Brooklyn, N. Y.		WOAX 1280 Trenton, N. J.		WRWA 1310 Reading, Pa.		WSYR 570 Syracuse, N. Y.	
WLVA 1370 Lynchburg, Va.		WOBU 580 Charlest'n, W.Va.		WRAX 1020 Philadelphia, Pa.		WTAD 1440 Quincy, Ill.	
WLW 700 Cincinnati, Ohio	X	WOC 1000 Davenport, Iowa	X	WRBL 1200 Columbus, Ga.		WTAG 580 Worcester, Mass.	
WLWL 1100 New York City		WOCL 1210 Jamestown, N. Y.		WRBQ 1210 Greenville, Miss.		WTAM 1070 Cleveland, Ohio	
WMAC 570 Syracuse, N. Y.		WODA 1250 Paterson, N. J.		WRBX 1410 Roanoke, Va.		WTAQ 1330 Eau Claire, Wis.	
WMAL 630 Washington, D.C.		WODX 1410 Mobile, Ala.		WRC 950 Washington, D.C.		WTAR 780 Norfolk, Va.	
WMAQ 670 Chicago, Ill.	X	WOI 640 Ames, Iowa	X	WRDO 1370 Augusta, Maine		WTAW 1120 College Sta., Tex.	X
WMAZ 1180 Macon, Ga.		WOKO 1430 Albany, N. Y.		WRDW 1500 Augusta, Ga.		WTAX 1210 Springfield, Ill.	
WMB 1500 Newport, R. I.		WOL 1310 Washington, D.C.		WREC 600 Memphis, Tenn.		WTBO 1420 Cumberland, Md.	
WMBC 1420 Detroit, Mich.		WOMT 1210 Manitowoc, Wis.		WREN 1220 Lawrence, Kans.		WTEL 1310 Philadelphia, Pa.	
WMBD 1440 Peoria Hghts., Ill.	X	WOOD 1270 Gr. Rapids, Mich.		WRHM 1250 Minneapolis, Minn.		WTFI 1450 Athens, Ga.	X
WMBG 1210 Richmond, Va.	X	WOPI 1500 Bristol, Tenn.		WRJN 1370 Racine, Wis.		WTC 660-1060 Hartford, Conn.	X
WMBH 1420 Joplin, Mo.		WOQ 1300 Kansas City, Mo.		WRNY 1010 New York City		WTJS 1310 Jackson, Tenn.	
WMBI 1080 Chicago, Ill.	X	WOR 710 Newark, N. J.		WROL 1310 Knoxville, Tenn.		WTMJ 620 Milwaukee, Wis.	
WMBO 1310 Auburn, N. Y.		WORC 1200 Worcester, Mass.		WRR 1280 Dallas, Texas	X	WTOC 1260 Savannah, Ga.	
WMBQ 1500 Brooklyn, N. Y.		WORK 1000 York, Pa.		WRUF 830 Gainesville, Fla.	X	WTSL 1310 Laurel, Miss.	
WMBR 1370 Tampa, Fla.		WOS 630 Jeff's'n City, Mo.		WRVA 1110 Richmond, Va.	X	WWAE 1200 Hammond, Ind.	
WMC 780 Memphis, Tenn.		WOV 1130 New York City		WSAI 1330 Cincinnati, Ohio	X	WWJ 920 Detroit, Mich.	X
WMCA 570 New York City		WOW 590 Omaha, Nebr.	X	WSAJ 1310 Grove City, Pa.		WWL 850 New Orleans, La.	X
WMIL 1500 Brooklyn, N. Y.		WOWO 1160 Ft. Wayne, Ind.	X	WSAN 1440 Allentown, Pa.		WWNC 570 Asheville, N. C.	
WMMN 890 Fairmont, W. Va.		WPAD 1420 Paducah, Ky.		WSAR 1450 Fall River, Mass.		WWRL 1500 Woodside, N. Y.	
WMPC 1500 Lapeer, Mich.		WPAP 1010 New York City		WSAZ 580 Hunt'gton, W.Va.		WWSW 1500 Pittsburgh, Pa.	
WMRJ 1210 Jamaica, N. Y.		WPAW 1210 Providence, R. I.		WSB 740 Atlanta, Ga.		WWVA 1160 Wheeling, W. Va.	X
WMSG 1350 New York City		WPCC 560 Chicago, Ill.		WSBC 1210 Chicago, Ill.		WXYZ 1240 Detroit, Mich.	
WMT 600 Waterloo, Iowa	X	WPCH 570 New York City		WSBT 1230 South Bend, Ind.		XEA 1000 Guad'ljara, Mex.	
WNAC 1230 Boston, Mass.		WPEN 1500 Philadelphia, Pa.		WSEN 1210 Columbus, Ohio		XEB 1030 Mexico City	X
WNAD 1010 Norman, Okla.		WPF 1370 Hattiesb'g., Miss.		WSFA 1410 Montgomery, Ala.		XEC 1000 Toluca, Mexico	
WNAX 570 Yankton, S. D.		WPG 1100 Atl'ntic City, N.J.	X	WSIX 1210 Springfield, Tenn.		XED 965 Reynosa, Mexico	X
WNEF 1500 Bingh'm't'n, N.Y.		WPOR 780 Norfolk, Va.		WSJS 1310 Winst.-Sal., N. C.		XEE 1000 Oaxaco, Mexico	
WNBH 1310 New B'd'f'd, Mass.		WPRO 1210 Providence, R. I.		WSM 650 Nashville, Tenn.		XEFA 1250 Mexico City	
WNBO 1200 Washington, Pa.		WPSC 1230 State College, Pa.		WSMB 1320 New Orleans, La.		XEFB 1315 Monterrey, Mex.	
WNBR 1430 Memphis, Tenn.		WPTF 680 Raleigh, N. C.		WSMK 1380 Dayton, Ohio		XEFC 1050 Merida, Mex.	
WNBW 1200 Carbondale, Pa.		WQAM 560 Miami, Fla.		WSOC 1210 Gastonia, N. C.		XEFD 845 Tijuana, Mex.	X
WNBX 1200 Springfield, Vt.		WQAN 880 Scranton, Pa.		WSPA 1420 Spartanburg, S.C.		XEFE 1000 Laredo, Mexico	
WNBZ 1290 Sar'n'c L'ke, N.Y.		WQAO 1010 New York City		WSPD 1340 Toledo, Ohio		XEFI 1000 Chihuahua, Mex.	
WNJ 1450 Newark, N. J.		WQBC 1360 Vicksburg, Miss.		WSUI 880 Iowa City, Iowa	X	XEFS 1000 Querretaro, Mex.	
		WQDM 1370 St. Albans, Vt.				XEG 1070 Mexico, Mex.	

XEH 1132 Monterrey, Mex.	XEQ 750 Juarez, Mexico	XETQ 1230 Mexico, Mex.	XFC 810 Agascalntes, M.
XEI 1000 Morelia, Mexico	XER 735 Villa Acuna, Mex.	XETR 610 Mexico City	XFF 875 Chihuahua, Mex.
XEJ 1000 Juarez, Mexico	XES 890 Tampico, Mexico	XETZ 1500 Coyoacan, Mex.	XFG 683.3 Mexico City
XEK 990 Mexico City	XET 690 Monterrey, Mex.	XEU 1000 Veracruz, Mex.	XFI 818 Mexico City
XEL 1000 Saltillo, Mexico	XETA 1140 Mexico City	XEV 1000 Puebla, Mexico	XFX 867 Mexico City
XEM 1300 Tampico, Mexico	XETB 1380 Torreon, Mex.	XEW 910 Mexico City	10-AB 1200 Moose Jaw, Sask.
XEN 711 Mexico City	XETC 1000 Jalapa, Mex.	XEY 1210 Mexico City	10-AT 1155 Trail, B. C.
XEO 940 Mexico City	XETF 630 Veracruz, Mex.	XEZ 780 Merida, Mexico	10-BP 1200 Wingham, Ont.
XEP 1400 Laredo, Mexico	XETG 1000 Torreon, Mex.		10-BQ 1200 Brantford, Ont.

INDEX BY LOCATIONS WITH MAP KEY

(Continued from page 59)

Location	Watts	Call Letters	Kcys.	Location	Watts	Call Letters	Kcys.
<b>JALISCO</b>				Cienfuegos W-25	40	CMHJ	1125
Guadalajara, Jal. X-10	101	XEA	1000	Colon W-24	30	CMGI	1150
<b>MICHOACAN</b>				Guantanamo X-28	20	CMKJ	1300
Morelia, Mich. Y-12	101	XEI	1000	Havana W-23	150	CMBC	965
<b>NEUVO LEON</b>					150	CMBD	965
Monterrey, N. L. U-13	50	XEFB	1315		225	CMBG	1070
	1000	XEH	1132		30	CMBI	1444
	500	XET	690		20	CMBL	1444
<b>OAXACA</b>					30	CMBN	1444
Oaxaca, Oak. AA-14	105	XEE	1000		50	CMBO	1500
<b>PUEBLA</b>					15	CMBR	1500
Puebla Z-13	101	XEV	1000		150	CMBS	790
<b>QUERETARO</b>					150	CMBT	790
Queretaro X-12	40	XEFS	1000		150	CMBW	1140
<b>TAMAULIPAS</b>					350	CMBY	1235
N. Laredo S-13	101	XEFE	1000		150	CMBZ	1010
	200	XEP	1400		500	CMC	840
Reynosa, Tams. T-14	10000	XED	965		150	CMCA	1235
Tampico, Tams. W-14	500	XEM	730		150	CMCB	1070
	500	XES	890		250	CMCD	925
<b>VERA CRUZ</b>					250	CMCF	890
Jalapa Y-14	100	XETC	1000		30	CMCG	1395
Veracruz, Ver. Z-14	500	XETF	630		20	CMCH	1395
	101	XEU	1000		250	CMCI	630
<b>YUCATAN</b>					15	CMCM	1395
Merida, Yuc. X-19	105	XEY	1000		250	CMCN	925
<b>WEST INDIES</b>					250	CMCO	660
<b>BAHAMA</b>					1000	CMCQ	1140
Nassau, U-26	500	VPN	610		150	CMCR	1345
<b>CUBA</b>					150	CMCU	1270
Caibarien W-25	250	CMHD	950		150	CMCV	1270
Camaguey W-26	75	CMJC	1382		250	CMCW	1345
	20	CMJE	856		40	CMDB	1395
	225	CMJF	930		500	CMDC	660
	50	CMJG	1050		3150	CMK	730
	50	CMJL	960		250	CMQ	630
Cardenas W-24	30	CMGE	1375		1400	CMW	588
Ciego de Avila W-26	15	CMJH	1017		500	CMX	890
	5	CMJI	1260		30	CMGB	1205
					30	CMGC	820
					50	CMGF	987
					150	CMGH	1040
					20	CMAB	1249
				Pinar del Rio W-22	30	CMHI	1030
				Santa Clara W-25	150	CMKC	1034
				Santiago X-28	250	CMHC	790
				Tuinucu			
				<b>DOMINICAN REPUBLIC</b>			
				Santo Domingo X-31	1000	HIX	630
				<b>HAITI</b>			
				Port au Prince X-30	1000	HHK	920

# Shortwave Broadcasters of the World

Fill in your dial and coil numbers for these foreign stations

## 2000 METERS

Keys.	Power	Call	City	Country
155	7000	RYK	Kovno	Lithuania
160	7000	PFB1	Amsterdam, Hilversum	Netherlands
160	6400	PH9	Amsterdam Huizen	Netherlands
162	.....	TNU	Carthage	Tunisia
167	40000	.....	Lahti	Finland
174	13500	.....	Paris	France
188	10000	RW14	Irkutsk	Russia
193	25000	G5XX	Daventry	England

## 1500 METERS

Keys.	Power	Call	City	Country
203	25000	.....	Warsaw	Poland
203	100000	RW1	Moscow	Russia
222	30000	SBG	Motala	Sweden
229	300	VK5AD	Adelaide	Australia
230	100000	RW49	Moscow	Russia
230	4000	RW6	Novo Sibirsk	Russia
235	500	TUA	Tunis	Tunisia
238	10000	RW8	Baku	Russia
238	1200	RW43	Baku	Russia
240	21000	.....	Reykjavik	Iceland
244	500	.....	Besel	Switzerland
246	500	.....	Berne	Switzerland
250	100	.....	Tallinn	Estonia
250	600	SBE	Boden	Sweden
256	25000	RW11	Tashkent	Russia
268	4000	RA33	Novorossiisk	Russia
269	40000	RW58-	Moscow	Russia
271	4000	.....	Rostov on Don	Russia
273	40000	RW58	Moscow	Russia
273	8000	RV58	Imeni Pop	Russia
279	75000	LKO	Oslo	Norway
280	2000	PCF	Scheveningen	Netherlands
280	10000	RW7	Tifis	Russia
290	36000	RW9	Kiev	Russia

## 1000 METERS

Keys.	Power	Call	City	Country
300	20000	RW3	Leningrad	Russia
300	100000	RW53	Leningrad	Russia
309	2000	.....	Soro	Denmark
310	10000	RW60	Alma Ata	Russia
320	16000	RW4	Kharkov	Russia
320	.....	RV49	Stehelkovo	Russia
334	4000	RW19	Achkabad	Russia
338	1200	RA41	Vologda	Russia
343	4000	RV21	Erivan	Russia
343	2000	RW18	Samarkand	Russia
354	4000	RW12	Rostov on Don	Russia
364	36000	RW5	Sverdlovsk	Russia
368	10000	RW9	Kiev	Russia
370	1200	RW26	Stalino	Russia
375	250	RA9	Sevastopol	Russia
386	3000	RW25	Voronezh	Russia
394	4000	RW42	Nizhni Novgorod	Russia
395	1200	.....	Geneva	Switzerland

## 750 METERS

Keys.	Power	Call	City	Country
417	20000	RW2	Moscow	Russia
421	2000	RW47	Tashkent	Russia
429	4000	RW10	Minsk	Russia
435	1000	RW35	Astrakhan	Russia

Keys.	Power	Call	City	Country
441	.....	.....	Lausanne	Switzerland
444	2000	RW22	Oufa	Russia
462	1000	RW45	Orenburg	Russia
469	1200	RW29	Petrozavodsk	Russia
472	1200	RW44	Omsk	Russia

## 600 METERS

Keys.	Power	Call	City	Country
511	800	LKH	Hamar	Norway
511	4000	RW30	Dneipropetrovsk	Russia
521	1000	RA34	Koursk	Russia
522	1200	RW16	Samara	Russia
527	300	.....	Freiburg	Germany
530	300	.....	Hanover	Germany
531	2000	RW24	Smolensk	Russia
536	300	.....	Augsburg	Germany
541	.....	RV53	Sverdlovsk	Russia
545	20000	.....	Budapest	Hungary

## 200 METERS

Keys.	Power	Call	City	Country
1515	250	.....	Biarritz	France
1530	200	SCJ	Karlskrona	Sweden
1635	35000	.....	Berlin	Germany
1764	20	OA6U	Arequipa	Peru
2142	500	.....	Surabaya	Netherlands East Indies
3030	30000	SBG	Motala	Sweden
3446	2500	.....	Haiphong	French Indo- China
3750	9000	I2RO	Rome	Italy
3998	500	PK1AA	Batavia	Netherlands East Indies

## 75 METERS

Keys.	Power	Call	City	Country
4262	1500	F8GC	Paris	France
4273	20000	RW54	Kharbarovsk	Russia
4776	.....	ZL2XX	Wellington	New Zealand
5000	.....	XCTE	Shanghai	China
5169	2000	OK1MPI	Prague	Czechoslovakia
5170	1000	IBR	Bandoeng	Netherlands East Indies
5515	300	RW38	Moscow	Russia
5552	500	.....	Tananarive	Madagascar
5837	.....	HKD	Barranquilla	Colombia
5879	.....	AIN	Casablanca	Morocco
5965	10000	HVJ	Vatican City	Italy
5996	500	PK2AF	Djakakarta	Netherlands East Indies

## 50 METERS

Keys.	Power	Call	City	Country
6000	1000	VQ7LO	Nairobi	Kenya
6000	250	ZL3ZC	Christchurch	New Zealand
6000	20000	RW59-	Moscow	Russia
6000	.....	EAJ25	Barcelona	Spain
6005	.....	VE9DN	Montreal, Que.	Canada
6005	.....	VE9DR	Montreal, Que.	Canada
6015	.....	VE9CX	Wolfville, N. S.	Canada
6030	.....	VE9CA	Calgary, Alta.	Canada
6040	.....	PK3AN	Surabaya	Netherlands East Indies
6045	.....	.....	Tandjonk Priok	Netherlands East Indies

Keys.	Power	Call	City	Country
6050	....	HKD	Barranquilla	Colombia
6050	....	VE9CF	Halifax, N. S.	Canada
6057	....	OXO-		
		OXZ	Copenhagen	Denmark
6061	400	YV2BC	Caracas	Venezuela
6065	30000	SBG	Motala	Sweden
6070	....	VE9CS	Vancouver, B. C.	Canada
6072	15000	FOR2	Vienna	Austria
6080	....	VE9EH	Charlottetown, P. E. I.,	Canada
6090	....	VE9BJ	St. Johns, N. B.	Canada
6095	....	VE9GW	Toronto, Ont.	Canada
6098	15000	ZTJ	Johannesburg	South Africa
6110	....	VE9CG	Calgary, Alta.	Canada
6114	3000	VUB	Bombay	India
6119	12000	F31CD	Saigon	French Indo-China

6124	40000	FL	Paris	France
6124	....	EAR25	Barcelona	Spain
6130	....	VE9BA	Montreal, Que.	Canada
6134	1000	VQ7LO	Nairobi	Egypt
6150	....	VE9CL	Winnipeg, Man.	Canada
6160	....	HKA	Barranquilla	Colombia
6275	50	HKC	Bogota	Colombia
6420	100	RW62	Minsk	Russia
6662	250	PK3CH	Surabaya	Netherlands East Indies
6667	200	F8KR	Algiers	Algeria
6667	....	I1AX	Rome	Italy
6726	200	VRY	Georgetown	British Guiana
6875	....	F8MC	Casablanca	Morocco
6877	2000	....	Rabat	Morocco
6976	....	EAR100	Madrid	Spain
6995	2000	CT1AA	Lisbon	Portugal

### 43 METERS

7005	....	F8KR	Constantine	Tunisia
7025	....	EAR125	Madrid	Spain
7055	....	VS3AB	Johore Baru	British Malaya
7139	25	HKT	Manizales	Colombia
7143	....	HKF	Bogota	Colombia
7211	500	EAR58	Teneriffe	Canary Islands
7260	....	VS1AB	Singapore	British Malaya
7300	2500	HSP2	Bangkok	Siam
7317	2000	....	Paris	France
7463	500	YR	Lyon	France
7538	....	....	El Prado	Ecuador
7590	....	JFAB	Taihoku, Form.	Japan
7616	....	HKF	Bogota	Colombia
7995	....	JHBB	Hirasio	Japan
8105	....	J1AA	Tokyo	Japan
8692	....	HKF	Bogota	Colombia
8820	100	VK3UZ	Melbourne	Australia

### 33 METERS

9110	....	SUS	Cairo	Egypt
9125	....	HAT	Szekesvehervar	Hungary
9230	1000	VK2BL	Sydney	Australia
9300	6	....	Rabat	Morocco
9369	1000	VK3LO	Melbourne	Australia
9410	30	PLE	Bandoeng	Netherlands East Indies
9488	....	OXO-		
		OXZ	Copenhagen	Denmark
9500	....	VK3ME	Melbourne	Australia
9500	2500	JSP2	Bangkok	Siam
9555	....	VE9DR	Montreal, Que.	Canada
9560	30000	....	Berlin	Germany
9580	....	VE9DN	Montreal, Que.	Canada
9590	....	VK2ME	Sydney	Australia
9590	....	PCJ	Amsterdam, Hilbersum	Netherlands
9616	1000	VQ7LO	Nairobi	Kenya

Keys.	Power	Call	City	Country
9772	....	EAM	Madrid	Spain
9810	....	LSOR	Buenos Aires	Argentina
9836	1500	.....	Poznan	Poland

### 30 METERS

10000	....	.....	Belgrade	Jugoslavia
10167	500	HS2PJ	Bangkok	Siam
10382	20000	LSX	Buenos Aires	Argentina
10520	1000	VK2FC	Sydney	Australia
10527	....	VK2ME	Sydney	Australia
10710	....	F8MC	Casablanca	Morocco
10710	-150	CT1BO	Lisbon	Portugal
10990	....	ZLW	Wellington	New Zealand

### 27 METERS

11308	....	FYA	Paris	France
11700	....	YV4BV	Valencia	Venezuela
11705	....	VE9BA	Montreal, Que.	Canada
11712	7.5	HKN	Medellin	Colombia
11720	....	VE9JR	Winnipeg, Man.	Canada
11750	....	.....	Chelmsford	England
11760	....	SAS	Karlsborg	Sweden
11780	....	VE9DR	Montreal, Que.	Canada
11801	....	UOR2	Vienna, Rosenhugel	Austria
11810	9000	I2RO	Rome	Italy
11810	....	VE9GW	Toronto, Ont.	Canada
11860	....	VE9CA	Calgary, Alta.	Canada
11870	3000	VUC	Calcutta	India
11895	....	VE9DN	Montreal, Que.	Canada
11899	....	FYA	Paris	France
11993	500	PK6KZ	Makassar	Netherlands East Indies

### 25 METERS

12010	....	FZR	Saigon	French Indo-China
12830	6000	....	Rabat	Morocco
13100	....	FZG	Saigon	French Indo-China
14420	....	VPD	Suva	Fiji

### 20 METERS

15112	10000	HVJ	Vatican City	Italy
15190	....	VE9BA	Montreal, Que.	Canada
15235	....	FYA	Paris	France
15300	500	OXO-		
		OXZ	Copenhagen	Denmark
16330	....	VK2ME	Sydney	Australia
17640	....	PLF	Malabar	Netherlands East Indies
17775	40000	PHI	Amsterdam, Huizen	Netherlands

### 17 METERS

18860	30	PLE	Bandoeng	Netherlands East Indies
24380	....	VE9GW	Toronto, Ont.	Canada
51724	750	RW61	Moscow	Russia
59964	240	PK4PA	Semarang	Netherlands East Indies

# Their Time On the Air

Your Zone	Where Time is Given as			
	EST	CST	MST	PST
EST	.....	Add 1 hr.	Add 2 hrs.	Add 3 hrs.
CST	Subt. 1 hr.	.....	Add 1 hr.	Add 2 hrs.
MST	Subt. 2 hrs.	Subt. 1 hr.	.....	Add 1 hr.
PST	Subt. 3 hrs.	Subt. 2 hrs.	Subt. 1 hr.	.....

State	City	Call	Kcys.	Watts
Alaska	Ketchikan	KGBU	900	500
	DX every Thursday morning, 1-3 a.m., PST.			
California	Beverly Hills	KMPC	710	500
	Daily, 7 a.m.-Local sunset; 9 p.m.-1 a.m., PST.			
	San Jose	KQW	1010	500
	Sunday, 10:15 a.m.-12:30 p.m.; 7:30-9:30 p.m., PST.			
	Daily, 7 a.m.-10 p.m. (Silent 3:30-4:30 p.m.)			
	Stockton	KWG	1200	100
	Sunday, 8 a.m.-11 p.m., PST.			
	Daily, 7:30 a.m.-11 p.m.			
Colorado	Grand Junction	KFXJ	1310	100
	DX Thursday mornings, 1-3 a.m., MST.			
	Greeley	KFKA	880	500
	Daily, 5 a.m.-midnight, MST.			
Delaware	Wilmington	WILM	1420	100
	Daily, 7:30 a.m.-10 p.m., EST.			
Illinois	Chicago	WIBO	560	1000
	Sunday, 7:30-10 a.m.; 12:30-7 p.m., CST.			
	Daily 6:25 a.m.-1:30 a.m.			
Iowa	Iowa City	WSUI	880	500
	Every Tuesday, Midnight-3 a.m., CST.			
	Sioux City	KSCJ	1330	1000
	Sunday, 8 a.m.-7:30 p.m., CST.			
	Tuesday, 6:30 a.m.-12 midnight.			
	Balance week, 6:30 a.m.-8:30 p.m.; 9:30-12 midnight.			
Kansas	Topeka	WIBW	580	1000
	DX Sunday mornings, starting midnight, CST.			
	Wichita	KFH	1300	1000
	Sunday, 8-10 a.m.; 1-7 p.m.; 9-11 p.m., CST.			
	Mon, Thurs., 7-8:30 a.m.; 9-11 a.m.; 11:30-2 p.m.; 3-9 p.m.; 10-11 p.m.			
	Tuesday, 7-8:30 a.m.; 9-11 a.m.; 11:30-2 p.m.; 3-11 p.m.			
	Wed., Fri., 7-8:30 a.m.; 9-11 a.m.; 11:30-2 p.m.; 3-6 p.m.; 7-9 p.m.; 10-11 p.m.			
	Saturday, 7-8:30 a.m.; 9-11 a.m.; 11:30-2 p.m.; 3-10 p.m.; 11-12 midnight.			
Michigan	Detroit	WJBK	1370	50
	Daily, 7 a.m.-3 a.m., EST.			
Missouri	Joplin	WMBH	1420	100
	Sunday, 10:55 a.m.-1:45 p.m.; 7:30-8:45 p.m., CST.			
	Saturday, 12 noon-2 p.m.; 6-7 p.m.			
	Balance week, 12 noon-2 p.m.; 6-9:30 p.m.			
Nebraska	Lincoln	KFOR	1210	100
	Daily, 7 a.m.-10 p.m., CST.			
	DX, 1st and 3rd Friday of each month, starting midnight.			
New York	Buffalo	WBN	900	1000
	Sunday, 9 a.m.-12 midnight, EST.			
	Daily, 6:45 a.m.-12 mid. (Tues. and Sat. on till 1 a.m.)			
Ohio	Cleveland	WJAY	610	500
	Daily, 6 a.m.-6:30 p.m. EST			
Oregon	Portland	KFJR	1300	500
	Mon., Thurs., Sat., 10:30 a.m.-2:30 p.m.; 5-6 p.m.; 7-8 p.m., PST.			
	Tues., Wed., Fri., 10:30 a.m.-2:30 p.m.; 5-6 p.m.; 7-12 mid.			
	Portland	KTBR	1300	500
	Sunday, 7:30 a.m.-12 mid., PST.			
	Mon., Thurs., 6-10:30 a.m.; 2:30-5 p.m.; 6-7 p.m.; 8-12 mid.			
	Tues., Wed., Fri., 6-10:30 a.m.; 2:30-5 p.m.; 6-7 p.m.			
	Saturday, 6-10:30 a.m.; 2:30-5 p.m.; 6-7 p.m.; 8 p.m.-1 a.m.			
Pennsylvania	Reading	WEEU	830	1000
	Daily, 8 a.m.-3 p.m., EST.			
	Erie	WERE	1420	100
	Daily, 8 a.m.-1:15 p.m.; 3:45-10:30 p.m., EST.			
Porto Rico	San Juan	WKAQ	890	500
	Every Sunday morning 3-5 a.m., EST. (test program)			
Virginia	Norfolk	WTAR	780	500
	Sunday, 9 a.m.-12 mid., EST.			
	Daily, 7:30 a.m.-12 mid.			

## CANADA

State	City	Call	Kcys.	Watts
Alberta	Edmonton	CHMA	580	250
	Sundays only, 7 p.m.-10:30 p.m., MST.			
British Columbia	Kelowna	CKOV	1200	100
	Every Friday and Sunday morning, 12 mid.-2 a.m., PST.			
Ontario	Toronto	CKCL	580	500
	Every Saturday morning, 1:30-3 a.m., EST.			
	Toronto	CKNC	960	500
	Daily, 8 a.m.-11:15 p.m., EST.			
Mexico	Mexico City	XEZ	780	500
	DX every Sunday morning, 1-1:30 a.m., CST.			
	Monterrey	XEH	1132	1000
	Daily, 9 a.m.-11 p.m., CST.			

## The Month's Changes

### Frequencies

570	WPCB	New York City, from 810.
590	WGCM	Gulfport, Miss., from 1210.
595	CJCG	London, Ont., from 910.
	CNRL	London, Ont., from 910.
630	CMQ	Havana, Cuba, from 1150.
810	WNYC	New York City, from 570.
856	CMJE	Camaguey, Cuba, from 1180.
890	CMX	Havana, Cuba, from 885.
987	CMGF	Matanzas, Cuba, from 977.
1030	CMHI	Santa Clara, Cuba, from 1110.
1040	CMHG	Matanzas, Cuba, from 1050.
1050	CMJG	Camaguey, Cuba, from 1200.
1125	CMHJ	Cienfuegos, Cuba, from 645.
1140	CMBW	Havana, Cuba, from 1010.
	CMCQ	Havana, Cuba, from 1150.
1200	KFXD	Nampa, Idaho, from 1420.
1210	KGY	Olympia, Wash., from 1200.
1235	CMBY	Havana, Cuba, from 1225.
1270	CMCW	Havana, Cuba, from 1285.
1310	KFYO	Lubbock, Texas, from 1420.
1330	KMO	Tacoma, Wash., from 860.
1395	CMCG	Havana, Cuba, from 1345.
	CMCH	Havana, Cuba, from 1405.
	CMCM	Havana, Cuba, from 1405.
1440	KDFN	Casper, Wyo., from 1210.
1444	CMBI	Havana, Cuba, from 1405.
	CMBL	Havana, Cuba, from 1500.
	CMBN	Havana, Cuba, from 1405.

### Power

540	CKWO	Windsor, Ont., 1000 to 5000.
588	CMW	Havana, Cuba, 2000 to 1400.
590	WGCM	Gulfport, Miss., 100 to 1000.
618.5	KZRM	Manila, P. I., 1000 to 50000.
690	CFRB	Toronto, Ont., 7000 to 10000.
790	CMBT	Havana, Cuba, 500 to 150.
	CMHC	Tuinucu, Cuba, 100 to 250.
820	WHAS	Louisville, Ky., 10000 to 25000.
840	CKGW	Toronto, Ont., 5000 to 10000.
890	CMX	Havana, Cuba, 1000 to 500.
	WKAQ	San Juan, P. R., 250 to 500.
930	CMJF	Camaguey, Cuba, 50 to 225.
965	CMBD	Havana, Cuba, 250 to 150.
1030	CMHI	Santa Clara, Cuba, 15 to 30.
1050	CMJG	Camaguey, Cuba, 30 to 50.
1070	CMBG	Havana, Cuba, 150 to 225.
1140	CMCQ	Havana, Cuba, 600 to 1000.
1230	KFQD	Anchorage, Alaska, 100 to 250.
1240	KTFI	Twin Falls, Idaho, 250 to 500.
1270	CMCU	Havana, Cuba, 250 to 150.
1330	KMO	Tacoma, Wash., 500 to 250.
1345	CMCY	Havana, Cuba, 50 to 250.
1382	CMJC	Camaguey, Cuba, 150 to 75.
1395	CMCH	Havana, Cuba, 15 to 20.
1420	WENC	Americus, Ga., 50 to 100.
1440	KDFN	Casper, Wyo., 100 to 500.

### Operators

618.5	KZRM	Manila, P. I., to Radio Corp. of Philippines.
645	CHRC	Quebec, Que., to CHRC, Ltd.

720	WGN	Chicago, Ill., to WGN, Inc.
1010	WPAP	New York City, to Calvary Baptist Church
1120	KTRH	Houston, Texas, to KTRH Broadcasting Co.
1140	WAPI	Birmingham, Ala., to WAPI Broadcast Co.
1210	CFCO	Chatham, Ont., to John Beardall.
		<b>New</b>
630	CHCS	Hamilton, Ont.
960	CMIL	Canaguay, Cuba.
1260	CMJI	Ciego de Avila, Cuba.
1300	CMKJ	Guantanamo, Cuba.
1395	CMDB	Havana, Cuba.

		<b>Location</b>
1000	KFVD	Los Angeles, from Culver City, Calif.
1310	KFYO	Lubbock, Texas, from Abilene, Texas.

**Permit to Change Frequency**

890	WKAQ	San Juan, P. R., to 950.
1340	KFPW	Fort Smith, Ark., to 1210.
1420	KGVO	Missoula, Mont., to 1200.

**Permit to Increase Power**

890	WKAQ	San Juan, P. R., 500 to 1000.
1200	WFBC	Knoxville, Tenn., 10 to 100.
1340	KFPW	Fort Smith, Ark., 50 to 100.

**Permit to Change Location**

1200	WFBC	Knoxville, Tenn., to Greenville, S. C.
1210	WCOH	Yonkers, N. Y., to White Plains, N. Y.
1420	KFPX	Flagstaff, Ariz., to Yuma, Ariz.
	KICK	Red Oak, Iowa, to Carter Lake, Iowa.

**Chains**

540	CKWO	Windsor, Ont., new CBS.
820	WHAS	Louisville, Ky., NBC to CBS.

**Reinstated**

1210	WPAW	Providence, R. I.
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**Deleted**

1230	WBIS	Boston, Mass.
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## With the Radio Commission

**T**HE old feud between WNYC, the New York City municipal station, and WMCA, over the sharing of time has finally been settled (?) by the Radio Commission. WMCA in association with WPCB becomes a full time station on the 570 channel and WNYC is moved to 810 kcs., formerly used by WPCB. This will enable WNYC to have continuous operation every day in the week from 6:00 a.m. until as late as 10:00 p.m. during the summer months. WPCB goes out of existence although the call letters may be used in combination with WMCA. Like most orders of the Commission, this one probably will be carried to the courts yet, on the strength of the order, we are making the changes in this issue of RADEX.

The Commission has given special license to WCMA, Culver, Ind., to operate from 10:30 to 11:00 p.m. on Thursdays, Fridays and Sundays, from May 1st to September 24th, inclusive, provided station WKBF remains silent.

WMBH, Joplin, Mo., has been given authority to operate from 9:30 to 10:45 p.m. CST, on the following dates: May, 29th, 30th, June 1st to 7th inclusive. June 27th to 30th inclusive and from 2:30 to 5 p.m. June 5th to 19th inclusive.

The Radio Commission has authorized WNAD, The University of Oklahoma station, to discontinue operation from 9:15 p.m., May 26th, until 7:15 p.m., October 4th. Station KGGF will use WNAD'S time.

KOB, State College, New Mexico, has been granted permission to discontinue broadcasting between April 24th and August 1st or sooner, in order to move transmitter from State College to Albuquerque.

Station WNBO, Washington, Pa., has been ruled off the air by Chief Examiner Yost because of its alleged serious interference with WHBC, Canton, Ohio. Wonder if the deletion will stick.

KFBI, Milford, Kansas, has entered protest against the removal of KGGF from South Coffeyville, Okla., to Coffeyville, Kansas, and the application has been set for hearing.

KGKX, Sandpoint, Idaho, has been given authority to discontinue operation to July 1st, pending the action of the Commission on its application to move station to Lewiston, Idaho.

WHOM, Jersey City, N. J., has been granted a renewal of its license in conformity with the mandate of the Court of Appeals in the case of WNJ, Newark, N. J.

The Commission has extended to June 1st, the temporary license for synchronization of WBAL, Baltimore, with WJZ and of WTIC, Hartford, with WEAJ.

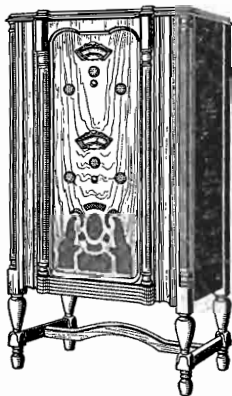
The special authorization of WABC-WBOQ to operate on 800 and 900 kcs. experimentally with 50,000 watts has been extended.

WJKS, Gary, Ind., has been granted renewal of license by mandate of the Court of Appeals.

*In September Mr. Dashiell will survey the All-Wave Receiver Field.*

# Good News and New Goods

Continued from page 11



aerial gives sufficient range and volume.

The chassis, completely assembled, less tubes, sells for only \$37.50, including large, specially matched dynamic speaker. Complete with 11 matched tubes, the price is \$47.95. Installed in an art console, the prices are \$57.50 and \$63.50, and in the de luxe model which is illustrated herewith, \$77.50. Even at these low prices, terms are given as low as \$10.00 down. Midwest receivers are sold on 30 days' trial with a guarantee of satisfaction or money back.

\* \* \*

Readers may obtain more complete information in regard to any of the articles described above, by addressing the manufacturers and calling their attention to this page in RADEX.

## For Summer Reception

Most good DX records in summer time must be made with head phones in order to reduce the volume below the noise or static level. If our readers do not want to make any more-or-less risky changes in their wiring, they should use a phone adapter in the socket of the last or power tube.

These adapters can now be furnished for either four- or five-prong tubes. Price of either is \$1.50 postpaid. They come complete with cord and connector into

which tips of your headphones can be inserted.

For \$2.75 we can furnish you with a set of the I.C.A. head phones made especially for radio DX work. Phones and either adapter complete, \$4.25 post-paid.

### STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., REQUIRED BY ACT OF CONGRESS OF AUGUST 24, 1912

Of Radio Index, published monthly except July and August, at Cleveland, Ohio, for April 1, 1932.  
State of Ohio  
County of Cuyahoga } ss.

Before me, a notary public in and for the State and county aforesaid, personally appeared Fred C. Butler, who, having been duly sworn according to law, deposes and says that he is the Editor and Publisher of the Radio Index, and that the following is to the best of his knowledge and belief, a true statement of the ownership, management, etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, embodied in section 411, Postal Laws and Regulations, printed on the reverse of this form, to wit:

1. That the names and addresses of the publisher, editor managing editor, and business managers are:

Publisher, Fred C. Butler, 5005 Euclid Ave., Cleveland, O.  
Editor, Fred C. Butler, 5005 Euclid Ave., Cleveland, O.  
Managing Editor, Fred C. Butler, 5005 Euclid Ave., Cleveland, O.

Business Manager, Fred C. Butler, 5005 Euclid Ave., Cleveland, O.

2. That the owner is: (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding one per cent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a firm, company, or other unincorporated concern, its name and address, as well as those of each individual member, must be given.)

Fred C. Butler, doing business as The Radex Press.

3. That the known bondholders, mortgagees and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: (If there are none so state.) None.

4. That the two paragraphs next above, giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by him.

5. That the average number of copies of each issue of this publication sold or distributed through the mails or otherwise, to paid subscribers during the six months preceding the date shown above is. (This information is required from daily publications only.)

Fred C. Butler.

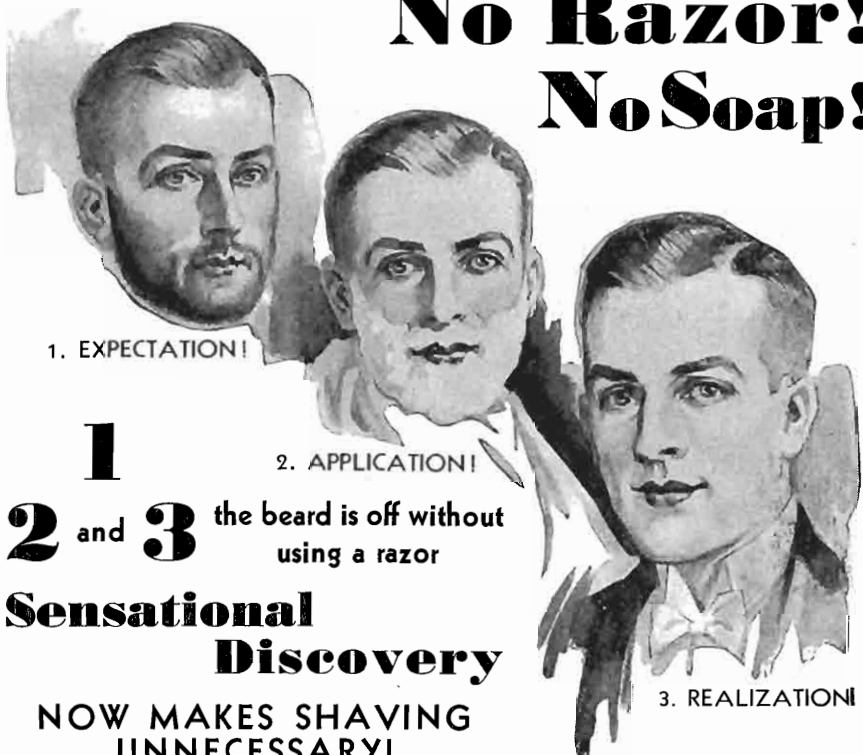
Sworn to and subscribed before me this 1st day of April, 1932.

[Seal]

S. S. Long.

(My commission expires March 29, 1933.)

# No More Shaving! No Razor! No Soap!



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2. APPLICATION!

3. REALIZATION!

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**2** and **3** the beard is off without  
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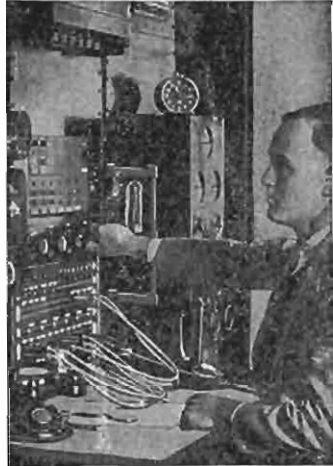
Special training in Talking Movies, Television and home Television experiments, Radio's use in Aviation, Servicing and Merchandising Sets, Broadcasting, Commercial and Ship Stations are included. I am so sure that N. R. I. can train you satisfactorily that I will agree in writing to refund every penny of your tuition if you are not satisfied with my Lessons and Instruction Service upon completion.

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