

MID-SUMMER EDITION

RADIO IN INDEX

WHAT'S ON THE AIR TONIGHT?



25^c

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

Frontispiece — Janet Reade, "Torch Singer" of stage and screen. Guest Artist on Recent NBC Program.	
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Published Monthly Excepting July and August
See Subscription Blank on page 22

\$1.75 per Year

25c per Copy

THE RADEX PRESS

5005 Euclid Avenue

Cleveland, Ohio

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

Printed in U. S. A.

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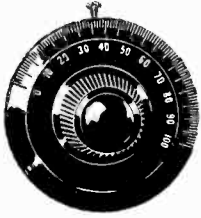
Name

Address

Town State

Please mention RADEX

JUNE 1, 1932

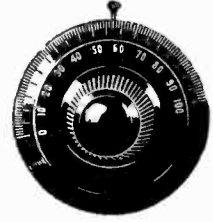


RADIO INDEX

REG. U. S. PATENT OFFICE

FRED CLAYTON BUTLER

Editor and Publisher



EXPERTS' Ideas of Aerials and Grounds

PERPLEXED 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 aerials 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 aerials 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 kes. 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; TIGR, 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.; 2ZI, 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 Hoefte, 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 IZB 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.

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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 XBL
 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

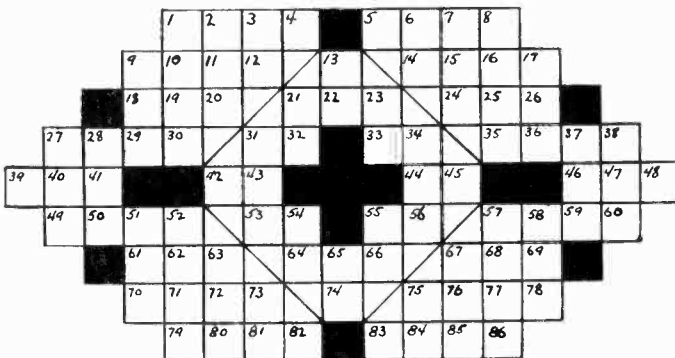
Down

- 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

IN 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 "Littfella"

There have been many references in letters from our readers to the Crosley "Littfella" 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 "Littfella" 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?"

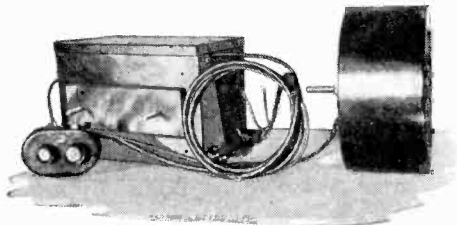
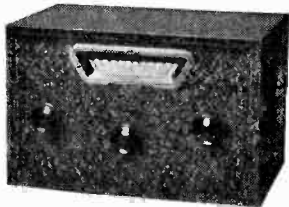
We receive hundreds of requests from our readers as to the "best" receivers for the short waves. We can no more assume the responsibility for naming the best radio set than we can for choosing the best automobile. The "best" is a matter of individual opinion. We will, however, from time to time, present 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.

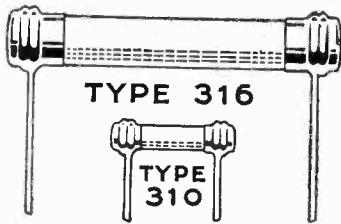
Radio for Motor Cars

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 "Centralab" 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, Mass., 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

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TAKING It Up with the EDITOR

EVEN 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 kcys. and their real frequency is 332 kcys. 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-

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"SINGIN' SAM" and Other STARS

Betty Introduces
"Joe Palooka"

JUST 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 Iodent 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 roommates 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 Howel Columbia, Tuesdays and Thursdays, 6:45 p. m., EDST.

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?

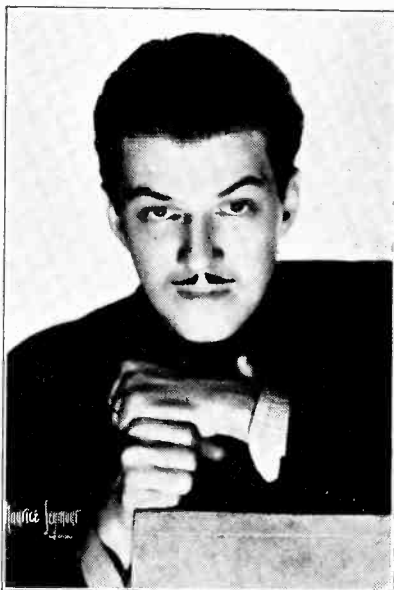
Looking down on the set from the front the row of tubes reads, from left to right: audio frequency -71A, second detector -27, oscillator -27, second intermediate frequency -27, first intermediate

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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- One copy of the next RADEX 25c
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- Leatherette Cover50

Write Name Plainly

Street and Number

City and State

FINAL MEETING of the DXERS

BEFORE 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, Clarenville, 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 neutrodyne 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-watter 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-watter. 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, W3XX 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 'Litlfella' 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 Bachelor," 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; KERMA, 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 superheterodyne, 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 kcys., 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. Nuzskowski, 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 superheterodyne and have succeeded in pulling in a total of 230 stations so far and going strong for more," says H. A. Heffelfinger, 44 Parker St., Carlisle, Pa. Mr. Heffelfinger 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. Heinzlmann, 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 kc., Los Angeles and KGMP, 1210 kc., Elk City, Okla., are still on the air or not? Another question, do WENR and WLS use the same transmitter?

"Auf Wiedersehen, 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-watter 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 Heaviside 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.
Gaulhos, 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 Aruheim, 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.
Goldberg, 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.
Tastyyeast 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.
Eco 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.
Soconyland 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.
Leo 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 Bachelor, 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.
Clicquot 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.
Piccadilly 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, B.
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., Thur. 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 WCBS WEAF WEEI
WFBR WFI WGY WIOD WJAR WRC
WSAI WTAG WTAM WTIC WWJ

ED-8:30 a.m., E-7:30, C-6:30, M-5:30
R—Cherio
CFPC CKGW KPRC KTBS WAPI
WBEN WCAE WCFL WCKY WCSH
WDAF WEAF WEEI WFBR WFI
WFLA WGY WHAS WIOD WIS
WJAR WJAX WJDX WKY WQAI
WOW WPTF WRC WRVA WSB
WSM WSMB WTAG WTAM WTIC
WWJ WWNC

ED-10:15 a.m., E-9:15, C-8:15, M-7:15
B—Clara, Lu and Em
KDKA KFJR KOA KOIL KPRC
KSL KVOO KWK WAPI WBAL
WBAP WBZA WCKY WDAY WECB
WFLA WGAR WHAM WHAS WIBA
WIOD WIS WJAX WJDX WJR
WJZ WKY WMC WQAI WPTF
WREN WRVA WSB WSM WSMB
WTMJ WWNC

ED 12:00 n., E-11:00, C-10:00, M-9:00
R—E. E. Circle
KFI KFSD KFJR KGHl KGIR KGO
KGW KHQ KOA KOMO KPRC
KSD KSL KSTP KTAR KTHS KVOO
WBAP WBEN WCAE WCSH WDAF
WDAY WEAF WECB WEEI WENR
WFBR WGY WHO WIBA WJAR
WKY WLIT WQAI WWC WSAI
WTAG WTAM WTIC WTMJ WWJ
WRC

ED-1:30 p.m., E-12:30, C-11:30, M-10:30
B—National Farm and Home Hour
KDKA KFJR KOA KOIL KPRC
KSTP KTBS KTHS KVOO KWK
KYW WAPI WBAL WCKY WDAF
WDAY WECB WFLA WGAR WHAM
WHAS WHO WIBA WIOD WIS WJAX
WJDX WJR WJZ WKY WMC WQAI
WOC WOW WPTF WRC WREN
WRVA WSB WSM WSMB WWNC

ED-2:00 p.m., E-1:00, C-12:00, M-11:00
C—Ann Leaf at Organ
CFBR WAAB WABC WADC WBCM
WBRC WBT WCAO WDAU WDAE
WDBJ WDDO WDRC WDSU WFBL
WFEA WGR WHP WLAC WLBW
WMAL WNOX WOKO WORC WQFA
WFG WQAM WREC WSBT WWSA
WSPD WTAR WTOC WXYZ

ED-4:30 p.m., E-3:30, C-2:30, M-1:30
R—Ely Culbertson, Bridge
CFPC CKGW WBEN WCAE WCSH
WDAF WEAF WEEI WENR WFBR
WGY WHO WJAR WLIT WOC
WRC WSAI WTAG WTAM WTIC
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 WCBS WEAF WEEI
WFBR WGY WJAR WLIT WRC
WSAI WTAG WTAM WTIC 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 KRLL KSCJ KTRH
KVOR WAAB WABC WACO WBRG
WBT WCAO WCCO WDAE WDBJ
WDBO WDDO WDRC WDSU WFLB
WFEA WFIW WIBW WIP WISN
WKBH WLAC WLAP WLBW WMAL
WMT WNOX WOKO WORC WOWO
WQAM WREC WSBT WSPA WSPD
WTAQ 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 KFJH KFJF KGB
KLRA KLZ KMBC KMOX KOH
KSCJ KTRH KTA KVOR WAAB
WABC WHIG WBRG WCAH WCAO
WDAE WDBJ WDBO WDDO WDRC
WDSU WFBL WGR WGST WHAS
WHFC WHP WISN WKBH WKBN
WLAC WLBW WLBZ WNOX WOKO
WORC WQAM WREC WSBT WSPA
WTAQ WTOC WXYZ

B—Royal Vagabonds, Ward Wilson
KOIL KWK WAPI WBAL WBZA
WCKY WFAA WGAR WHAM WJZ
WMAQ WQAI WREN WRVA WSB
WTMJ

ED-6:45 p.m., E-5:45, C-4:45, M-3:45
C—Vaughn De Leath
CFBR KDYL KFH KLRA KLZ
KMBC KMOX KOH KRLL KSCJ
KTRH KVOR WAAB WABC WACO
WBRG WBT WCAO WCCO WDAE
WDBJ WDBO WDDO WDRC WDSU
WEAN WFEA WFIW WGR WHP
WIBW WIP WISN WKBN WLAC
WLAP WLBW WMT WNOX WOKO
WORC WOWO WQAM WREC WSBT
WSPA WSPD WTAQ WTAR WTOC
WWVA

R—June Pursell, Ballads
KOA KSD WCAE WEAF WFI WIOD
B—Literary Digest, Lowell Thomas
KDKA WBAL WBZA WHAM WJZ
WLW WMAQ

B—Little Orphan Annie
KEX KFJR KOIL KPRC KSTP
KWK WDAY WECB WENR WKY
WQAI WREN

ED-7:00 p.m., E-6:00, C-5:00, M-4:00
C—Myrt and Marge
KMOX WABC WADC WCAO WCAU
WDRG WEAN WFBI WGR WJAS
WKRK WMLN WNAO WOKO WSPD
WWVA

B—Amos 'n' Andy
CFPC 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 WDRG WEAN WGR
WJAS WNAO WOKO
B—Tastyest 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
WFBM WGN WGR WHK WJAS
WKRK WNAO 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 WQAI WSE WSM WSMB
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 WTIC 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 WQAI WPTF WREN
WRVA WSB WSM WSMB WWNC

ED-8:00 p.m., E-7:00, C-6:00, M-5:00
C—Bath Club
CFBR KMBC KMOX WABC WADC
WBCM WCAO WCAU WCCO WDRC
WDSU WEAN WFBL WFBM WGN
WGR WHK WISN WJAS WKRK
WMAL WNAO WOKO WSPD WXYZ

R—Soconland Sketches
WBEN WCSH WEAF WEEI WGY
WJAR WTAG WTIC

B—Carnation Contented Program
CFPC CKGW KDKA KOIL KPRC
KSTP KVOO KWK WBAL WCKY
WDAY WECB WFAA WFLA WHAM
WHAS WIOD WJAX WJR WJZ WKY
WLS WMC WQAI WPTF WREN
WRVA WSB WSM WTMJ

ED-8:15 p.m., E-7:15, C-6:15, M-5:15
C—Singing Sam, Barbasol
KMBC KMOX WABC WADC WCAO
WCAU WCCO WDRC WEAN WFBL
WFBM 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
 KMBC KMOX WABC WADC WBCM WCAW WCAU WCCO WCCO WFLB WFBM WGN WGR WHCC WHK WISN WJAS WKRC WLPW WMAL WSPD WXYZ

R—Firestone, Lawrence Tibbett
 CFCF CKGW KPCB KTBS KTHS WBEN WCAE WCHS WFAF WVEI WFAA WFBW WFLA WGY WHAS WFOA WIS WJAR WJAX WJDX WKY WLIT WMC WQAI WPTF WRC WRVA WSAI WSB WSM WSBM WTAG WTAM WVIC WWJ WNBC KVOO

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

ED-8:45 p.m., E-7:45, C-6:45, M-5:45
C—Col. Stoppang and Budd
 KLZ KMBC KMOX WABC WADC WCAU WCAU WCCO WDRG WEAN WFLB WGN WGR WHK WJAS WKRC WMAL WNAC WOKO WOVO WSPD WXYZ

ED-9:00 p.m., E-8:00, C-7:00, M-6:00
C—Eugene International Revue
 KMBC KMOX KRLD WABC WADC WCAU WCAU WCCO WDRG WEAN WFLB WFBM WGN WGST WHK WJAS WKWB WKRC WMAL WNAC WOKO WOVO WREC WSPD WXYZ

R—A. & P. Gypsies
 KSD WBEN WCAE WCHS WDAF WFAF WVEI WGY WHO WJAR WLIT WMAQ WOC WOV WRC WSAI WTAG WTAM WVIC WWJ
B—Sinclair Wiener Minstrels
 KDKA KFYR KPRC KSTP KTBS KTHS KVOO KWK WBAL WBZA WDAY WECB WFAA WFLA WGAR WHAM WIBA WIOD WIS WJAX WJDX WJR WJZ WKY WLS WMC WQAI WPTF WREN WRVA WSM WSBM WTMJ WNNC

ED-9:15 p.m., E-8:15, C-7:15, M-6:15
C—Street Singer
 KMBC KMOX WABC WADC WCAU WCAU WCCO WDRG WEAN WFLB WGN WHK WJAS WKWB WKRC WMAL WNAC WOKO WOVO WSPD WXYZ

ED-9:30 p.m., E-8:30, C-7:30, M-6:30
C—Evening in Paris
 KMBC WABC WADC WBT WCAU WCAU WEAN WFLB WGN WHCC WHK WJAS WKWB WKRC WMAL WMT WNAC WOVO WSPD WXYZ
R—Parade of the States
 KFI KFYR KGO KGW KHQ KOA KOMO KPCB KSD KSL KSTP WBEN WCAE WCHS WDAF WFAF WVEI WFAA WFBW WGY WHAS WHO WJAR WJAX WKY WLIT WMC WQAI WOC WOV WRC WSAI WSB WSM WTAG WTAM WVIC WTMJ WWJ

B—Jack Benny; George Olsen
 CFCF CKGW KDKA KOIL 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
 KFYR KSD KTBS WCHS WDAY WFAF WECB WENR WFBW WFLA WIBA WIOD WIS WJAR WJDX WMC WRC WRVA WSAI WSB WSM WSBM WTAG WTAM WWJ WNNC
B—San Felician Serenade
 KDKA KOIL 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 KFBK KFH KFI KFYP KFRK KGB KGM KKH KLRA KLZ KMBC KMJ KMOX KOH KOIN KOI KOL KRLD KSCJ KTRH KTSU KWOR KWG WAAB WABC WACA WADC WBBM WBCM WBIG WBRC WBT WCAH WCAU WCAU WCCO WDAE WDBJ WDBO WDDO WDRC WDSU WEAN WFLB WFBM WFIW WGST WHAD WHCC WHK WHP WIBW WJAS WKBB WKWB WKRC WLAC WLPW WLWB WLWB WMLB WMBD WMBG WMT WNXA WNOX WOKO WORC WOVO WPG WQAM WREC WSPD WTAR WTCO WXYZ

R—Kay Donna, Contralto
 KFYR KSTP KTBS WBEN WCAE WCHS WDAF WFAF WENR WFLA WGY WHO WIOD WIS WJAR WJDX WKY WLIT WQAI WOC WRG WSAI WSB WSBM WTAG WVIC WWJ WNBC
B—Love Songs; Frank Munn
 KDKA KOIL 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 WCAU WCAU WDAE WDBJ WDBO WDDO WDRG WDSU WFLB WFBM WFEA WFIW WHCC WHP WLAC WLWB WMLB WNOX WOKO WORC WPG WQAM WREC WTAR WTCO

R—Myrt and Marge
 KDYL KFBK KFY KFRK KHJ KLZ KMBC KMJ KOIN KOL WBBM WCCO WLPW WXYZ
B—McGravy Brothers
 KDKA KOIL 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 KFI KFYP KHJ KLRA KLZ KMBC KOH KOL KSCJ KTRH KTSU KVI KVOR WAAB WABC WBCM WBIG WBRC WCAH WCAU WCCO WDAE WDBJ WDBO WDDO WDRG WDSU WEAN WFBM WFEA WHAS WHCC WHK WHP WIBW WIP WJAS WKBB WKWB WLWB WLWB WMLB WMBD WMT WNXA WNOX WOKO WORC WPG WQAM WREC WSA WSPD WTAR WTCO WXYZ

R—Russ Columbo and Orchestra
 WFAF WFI WIOD WJAR WOV WRC WVIC WWJ WNNC
B—Amos 'n' Andy
 KFI KFSD KGO KGW KHQ KOA KOIL KOMO KPCB KSL KSTP KTHS KWK WBAF WDAF WECB WENR WGAR WHAS WIBA WJDX WJR WKB WMAQ WMC WQAI WREN WSB WSM WSBM WTMJ

ED-11:15 p.m., E-10:15, C-9:15, M-8:15
C—Maxwell House Blenders
 KFAB KFH KFI KLRA KMBC KMOX KTRH KTSU WABC WACO

WBRC WBT WCAU WCCO WDAE WDBJ WDBO WDDO WFLB WFIW WGN WGST WHK WKRC WLAC WLPW WMLB WNOX WOVO WQAM WREC WRR WSPD WTAR WTCO WXYZ

ED-11:30 p.m., E-10:30, C-9:30, M-8:30
R—Firestone, Lawrence Tibbett
 KFI KFSD KFYR KGHL KGIR KGO KGJ KGW KHQ KOA KOMO KSL KSTP KTAR WDAY WECB 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 KFIY KLRA KLZ KMBC KOH KOL KRLD KSCJ KTRH KVOR WAAB WABC WACO WADC WBCM WBRC WBT WCAH WCAU WCAU WCCO WDAE WDBJ WDBO WDDO WDRG WDSU WEAN WFLB WFBM WFEA WFIW WHCC WHP WISN WKBB WKBN WKWB WLAC WLPW WLWB WMLB WMBD WMT WNXA WNOX WOKO WORC WOVO WPG WQAM WREC WSBT WSPA WSPD WTAR WTCO WXYZ
R—Vincent Lopez and Orchestra
 KOA WCKY WFAF 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 KFIY KLRA KLZ KMBC KOH KOL KRLD KSCJ KTRH KVOR WABC WACO WADC WBBM WBCM WBRC WBT WCAH WCAU WCAU WCCO WDAE WDBJ WDBO WDDO WDSU WEAN WFLB WFBM WFEA WFIW WHCC WHP WIP WIBW WISN WKBN WKWB WLPW WLWB WMLB WMBD WMT WNXA WNOX WOKO WOVO WQAM WREC WSBT WSPA WSPD WTAR WTCO WXYZ WNXA
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 WFAF WVEI 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 WFAF 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 KLRA KLZ
 KMBC KOH KRLD KSCJ KTRH
 KVOR WAAB WABC WADCO WBRCC
 WBT WCAO WCCO WDAE WDBJ
 WDBO WDOO WDRD WDSU WFLB
 WFIW WGR WHP WIBW WISN
 WKBH WKBN WLAC WLAP WLWB
 WMT WNOX WOKO WORC WOWO
 WQAM WREC WSBT WSFA WSPD
 WTAQ WTRAR WTOC WVVVA

ED-6:30 p.m., E-5:30, C-4:30, M-3:30
C — Jack Miller and Orchestra
 KDYL KFAB KFH KLRA KLZ
 KMBC KMOX KOH KSCJ KTRH
 KVOR WAAB WABC WACO WBBM
 WBRCC WCAH WCCO WDAE WDBJ
 WDBO WDOO WDRD WDSU WFEA
 WFIW WGR WHEC WHP WISN
 WKBH WKBN WLAC WLAP WLWB
 WMT WNOX WOKO WORC WOWO
 WQAM WREC WSBT WSFA WSPD
 WTAQ WTRAR WTOC WVVVA WXYZ

B — Ray Perkins
 KDKA KOA KOIL KPRC KSL
 KWK WAFI WBAL WBZA WCKY
 WGAR WHAM WHAS WJDX WJZ
 WMAQ WMC WOAI WREN WISB
 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 WDRD WDSU WEAN
 WFLB WGST WHP WISN WJAS
 WKBW WKRC WLAC WLAP WMT
 WNOX WOKO WOWO WQAM WREC
 WRR WSPD WTRAR WTOC WXYZ

R — Back of News in Washington
 KFI KFSB KGW KOA KTRAR WDAF
 WFAF WFBF WFI WGY WIOD WIS
 WPTF WRC WSAI WTAG WTRC
 WTVN

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 WGA JWR JDX WREN WSAI
 WTAG WTRC

ED-7:15 p.m., E-6:15, C-5:15, M-4:15
C — Mills Brothers
 KMBC KMOX WABC WADC WBBM
 WCAO WCAU WDRD WEAN WFLB
 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 WFLB
 WFBM WGL WGR WHK WISN
 WJAS WKBN WKRC WLAP WSPD
 WVVVA 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 WNBC WVEI WFI
 WGY WHO WJAR WOC WOW

WRC WSAI WTAG WTAM WTRC
 WVVVA WXYZ

B — You and Your Government
 KECA KEX KFSB KGA KGHL
 KGIR KJR KOA KOIL KPO KSL
 KTRAR KTBS KVOC KWCR KWK
 KYA WBAP WCKY WFLA WGAR
 WIOD WIS WJDX WJZ WLS WMC
 WPTF WREN WSM WSMB WVVVA

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

ED-8:30 p.m., E-7:30, C-6:30, M-5:30
C — Kate Smith, See Monday
R — True Story

KSD KYW WBN WBSH WDAF
 WFAF WVEI WYBR WFI WGY
 WHO WJAR WOC WOW WRC WSAI
 WTAG WTAM WTRC WVVVA

B — Little Musicale
 KFI KFSB KGW KHQ KOA KOIL
 KOMO KPO KSL KTRAR KWK
 WBZA WHAM WJZ WLS WREN

ED-8:45 p.m., E-7:45, C-6:45, M-5:45
C — Modern Male Chorus

KFAB KFBC KFH KFJF KFPY
 KHJ KLRA KMBC KMOX KOH
 KOY KRLD KSCJ KTRH KVI
 KVOR WABC WACO WADC WBIG
 WCAO WCAU WCCO WDAE WDBJ
 WDBO WDOO WDRD WDSU WEAN
 WFLB WFBM WGN WGR WHAS
 WHK WIBW WISN WJAS WKBH
 WKRC WMAL WMT WNAC WNAX
 WNOX WODX WOWO WQAM
 WREC WSPD WTAQ WTRAR WTOC
 WXYZ

B — Sisters of the Skillet
 KDKA KFJR KOIL KPRC KSTP
 KTBS KVOC KWK WBAP WBZA
 WDAY WNBC WGAR WHAM WJAZ
 WJZ WKY WLS WLW WOAI WREN
 WTMJ

ED-9:00 p.m., E-8:00, C-7:00, M-6:00
C — Ben Bernie and Orchestra

KDYL KFBC KFH KFPY KFRC
 KHJ KLZ KMBC KMJ KOIN KOL
 KRLD KTRH KVI WABC WADC
 WBRCC WBT WCAO WCAU WCCO
 WDRD WDSU WEAN WFLB WGN
 WHK WJAS WKBW WKRC WLAC
 WMAL WNAC WNAX WOKO WORC
 WOWO WSPD WXYZ
R — Gay Vienna, Erno Rapee
 CKGW KECA KEX KFSB KGA
 KGHL KJR KOA KSL KSTP KTRAR
 WBN WCAE WCSH WDAF WFAF
 WVEI WFI WFLA WGY WIOD
 WIS WJAR WLS WOW WRC WRVA
 WSAI WSMB WTAG WTAM WTRC

ED-9:30 p.m., E-8:30, C-7:30, M-6:30
C — Enno Crime Club

CFRB KMBC KMOX WABC WADC
 WCAO WCAU WDRD WEAN WFLB
 WGN WHK WJAS WKBW WKRC
 WMAL WNAC WOWO WSPD WXYZ

B — Great Personalities
 KDKA KOIL WGAR KWK WBAL
 WBZA WENR WCR WHAM WJZ
 WJZ WLW WREN

R — Ed Wynn; Don Voorhees

KFI KFSB KFJR KGHL KGIR
 KGO KGW KHQ KOA KOMO KPRC
 KSD KSL KSTP KTRAR KTBS KVOC
 WBAP WBN WCAE WCSH WDAF
 WDAY WFAF WNBC WVEI WFI
 WFI WFLA WGY WHO WJAZ

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

ED-10:00 p.m., E-9:00, C-8:00, M-7:00
C — Voice of 1000 Shades

CFRB CKAC KDB KDYL KERN
 KFBC KFRC KHJ KLZ KMBC
 KMJ KMOX KOIN KOL KSCJ
 KTRH KWG WAAB WABC WBBM
 WBT WCAH WCAO WCAU WCCO
 WDRD WEAN WFLB WFBM WGST
 WHEC WHK WHP WISN WJAS
 WKBW WKRC WLAP WMAL WMT
 WOKO WXYZ

R — Lucky Strike Dance Hour

KFSB KFJR KGO KGW KHQ
 KOA KOMO KPRC KSD KSL KSTP
 KTRAR KTBS WAPI WBN WCAE
 WCSH WDAF WDAY WFAF WNBC
 WVEI WENR WFAA WFBF WFI
 WFLA WGY WHAS WHO WJAZ
 WIOD WIS WJAR WJAX WJDX
 WKY WMC WOAI WOC WPTF
 WRC WRVA WSAI WSB WSM
 WSMB WTAG WTAM WTRC WTMJ
 WVVVA WVVVA

R — Regimentalists, Male Chorus

CFCF CKGW KDKA KOIL KWRCC
 KWK WBZA WCKY WGAR WHAM
 WJR WJZ WREN

ED-10:15 p.m., E-9:15, C-8:15, M-7:15
C — Musical Feet 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 WCKY WGAR WHAM WJR
 WJZ WREN

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

CFRB KLRA WAAB WABC WADC
 WBT WCAO WCAU WDAE WDBJ
 WDBO WDOO WDRD WDSU WEAN
 WFLB WFIW WHEC WHK WHP
 WKBN WKBW WLAC WLWB WMAL
 WNOX WOKO WORC WPG WQAM
 WREC WTOC
C — Myrt and Marge See Monday
B — McCravy Bros. See Monday

ED-11:00 p.m. E-10:00 C-9:00 M-8:00
C — Joe Palooka

KDB KDYL KERN KFBC KFPY
 KFRC KGB KHJ KLZ KMJ KMOX
 KOIN KOL KVI KWG WBRCC 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 KFBC KFH KFPY
 KLRA KLZ KMBC KMOX KOH
 KOIN KSCJ KTRH KVOR WAAB
 WABC WADC WBBM WBRCC WBT
 WCAH WCAO WCCO WDAE WDBJ
 WDBO WDOO WDRD WDSU WEAN
 WFLB WFBM WFEA WFIW WHEC
 WHK WHP WIBW WJAS WKBW
 WKBW WLAC WLAP WLWB WMAL
 WMBD WMT WNAX WNOX WOKO
 WORC WOWO WQAM WREC WSFA
 WSPD WTRAR WTOC WXYZ

R — Opry House

KEX KGA KGHL KGIR KJR KOA
 KPO WCAE WENR WFI WJAR
 WRC WTAM WTRC 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 WEAF WEET WJAR WRC
 WTAM WTIC

ED-11:45 p.m., E-10:45, C-9:45, M-8:45
C— Bing Crosby
 CFRB KDYL KFAB KFJF KFJF
 KFPY KLRA KLZ KMBC KOH
 KRLD KSCJ KTRH KTSa KVOR
 WAAB WABC WBCM WBIG WBRC
 WCAO WCAU WCCO WDAE WDBJ
 WDOD WDRG WDSU WFLB WFBM
 WFBA WFEA WGST WHAS WHEC
 WHK WHP WIBW WISN WKBH
 WKBN WKWB WLAC WLWB WLWZ
 WMAL WMBD WMT WNA3 WNOX
 WOKO WORC WPG WQAM WREC
 WSBT WSPA WSPD WTAR WTOG
 WXYZ

ED-12:05 a.m., E-11:05, C-10:05, M-9:05
R— Jack Pettis and Orchestra
 KSD KTHS WBNB WEAF WGY
 WQAI 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 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-4:30 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 KFJR KGO KGW KHQ KOA
 KOMO KSD KSL KSTP WBNB
 WCAE WCHS WDAF WDAY WEAF
 WEBC WENR WFBR WGY WHO
 WBA 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 KFJF KFJF
 KLRA KLZ KMBC KMOX KOH
 KRLD KSCJ KTRH KVI WAAB
 WABC WABC WBIG WBRC WBT
 WCAO WCCO WDAE WDBJ WDOD
 WDOD WDRG WDSU WFEA WFIW
 WHP WIBW WIP WISN WKBH
 WLAC WLAP WLWB WMAL WMT
 WNOX WOKO WORC WQAM WQAM
 WREC WSBT WSPA WTAQ WTAR
 WTOG WWVA KVOR

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

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-7:15 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 WWNC

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 WEAF WEEI
 WFBR WGY WHO WJAR WLIT
 WLS WOC WOW WRC WSAI WTAM
 WWJ

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

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

KDKA KFSD KFJR KGHL KGIR
 KGO KGW KHQ KOA KOIL KOMO
 KPRC KSL KSTP KTAR KTBS
 KVOO KWOR KWK WAFI WBAL
 WBZA WCKY WDAY WEBC WFAX
 WGAR WHAM WHAS WIBA WJDX
 WJR WJZ WKY WMAQ WMC WQAI
 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
 WEAF 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 KTSa WABC WADC
 WBMM WCAO WCAU WCCO WDRG
 WEAN WFBM WFBM WHK WJAS
 WKWB WKRC WMAL WNA3 WOKO
 WOWO WSPD WXYZ

R— Goodyear, Grace Moore
 KFJR KPRC KSD KSTP KTHS
 KVOO KYW WBNB WCAE WCHS
 WDAY WEAF WEBC WEEI WFAX
 WFBM WFLA WGY WHAS WHO
 WIBA WIOD WIS WJAR WJAX
 WJDX WKY WLIT WMC WQAI
 WOC WOW WRC WRVA WSAI
 WSB WSM WSMB WTAG WTAM
 WTMJ WWJ WWNC

B— O. Henry Stories
 KDKA KWK WBAL WBZA 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 KFJR KGO KGW KHQ KOA
 KOMO KPRC KSD KSL KSTP
 KTAR KVOO WBNB WCAE WCHS
 WDAF WDAY WEAF WEBC WEEI

WENR WFAX 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 WWNC WYNC
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

KDYL KDYL KERN KFJF KFJF
 KFJF KFPY KFRC KGB KHJ KLRA
 KLZ KMBC KML KMOX KOH
 KOIN KOL KOY KRLD KSCJ KTRH
 KTSa KVI KVOR KWG WABC
 WACO WADC WBBM WBCM WBIG
 WBT WCAH WCAO WCAU WCCO
 WDAE WDBJ WDOD WDRG WEAN
 WFBM WFBM WFIW WGST WHEC
 WHK WHP WIBW WISN WJAS
 WKBN WKWB WKRC WLAP WLWB
 WLWB WMAL WMBD WMBG WMT
 WNA3 WNA3 WOKO WORC WOWO
 WPG WQAM WSPD WTAR WTOG
 WXYZ

R— Coca-Cola Program
 KFI KFSD KGO KGU KGW KHQ
 KOA KOMO KPRC KSD KSL KSTP
 KTAR WAPI WEAF WBNB WCAE
 WCHS WDAF WEAF WEBC WEEI
 WENR WFBM WFLA WGY WHAS
 WHO WIOD WIS WJAR WJAX
 WJDX WKY WLIT WMC WQAI
 WOC WOW WRC WRVA WSAI
 WSB WSM WSMB WTAG WTAM
 WTIC WTMJ WWJ WWNC
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
 WBNB WCAO WCAU WCCO WDRG
 WEAN WFBM WHK WJAS WKWB
 WKRC WMAL WOKO WOWO 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 WDRG WFBM WFBM
 WGST WHK WJAS WKWB WKRC
 WLAP WMAL WMT WOKO WOWO
 WSPD WXYZ

R— NBC Artists' Service Musicale
 KGO KOA KSD KSTP KTBS WBNB
 WCAE WCHS WEAF WENR WHO
 WIS WJAR WQAI WOC WOW WRC
 WSB WSMB WTAG WTAM WWJ
 WWNC WGY

B— Waves of Melody
 KDKA KOIL 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— Street Singer

CFRB KLRA WAAB WABC WBIG
 WBRG WBT WCAO WCAU WDAE
 WDBJ WDOD WDRG WDSU WEA
 WFLB WFEA WFIW WHEC WHP
 WKWB WLAC WLWB WMAL WNOX
 WOKO WORC WPG WQAM WREC
 WTAR WTOG 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 WEAF WGY WJAR
 WGW 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
 KFJR KTBS KWCR WAPI WCKY
 WFLA WGAR WHAM WIS WJR
 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 KFPY KLRA
 KLZ KMBC KOH KOI KRDL KSCJ
 KTRH KWOR WAAB WABC WADC
 WBCM WRIG WRBC WTJ WCAH
 WCAO WCAU WCCO WDAE WDBJ
 WDBO WDOD WDRC WDSU WFBM
 WFLA WFLW WHEC WHP WISN
 WKBH WKBW WLAC WLAB WLWB
 WMAL WMBD WMT WNOX WQOW
 WOKO WORC WOWO WPG WQAM
 WSBT WSFA WSPD WTAR WTOC
 WXYZ

ED-12:00 p.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 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-4:45 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 KFJR KGHl KGIR KGO
 KOA KOMO KSD WEAF WFAA
 WFI WBA WJAR WJAX WJDX
 WMAQ WSAI WTIC WLV WVNC

ED-6:45 p.m., E-5:45, C-4:45, M-3:45
 C—Joe Palooka, See Monday
 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—The Ribban 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
 CFOP CKGW KFI KFSD KFJR
 KGO KGW KHQ KOA KOMO KPRC
 KSD KSL KSTP KTAR WAPI WBAP
 WBNW WCAE WCHS WDAF WDAY

WEAF WERC WEEL WFBR WFI
 WFLA WGY WHAS WHO WIOD
 WJAR WJAX WJDX WKY WMAQ
 WMC WOAI WOC WOW WPTF
 WRC WRVA WSAI WSB WSM
 WSMB WTAG WTAM WTIC WWJ
 B—Edgeworth 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 WBAZ

ED-8:30 p.m., E-7:30, C-6:30, M-5:30
 B—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
 KFJ KFSD KGHl KGIR KGO KGW

KHQ KOA KOMO KPRC KSD KSL
 KSTP KTAR KTBS WBAP WBEI
 WCAE WCHS WDAF WEAF WEEI
 WFBY WFI WGY WIBA WJAR
 WJY 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 WCAF WDRC WEAN WFBL
 WGR WHK WIAS WKRC WMAL
 WNAO 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 WKBW WKRC WMAL
 WNAO 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 WBCB
 WFLA WGAR WHAM WHAS WIOD
 WJAX WJDX WJR WJZ WKY WLW
 WMC WOAI WREN WRVA WSB
 WSM WSMB WTMJ WWNC

R—Sherlock Holmes
 CFOP CKGW KSD WBNW WCAE
 WCHS WDAF WEAF 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 WBEI WCKY WDAF WEAF
 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 KFJR 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 p.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 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-4:45 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 KFJF KFJR
 KIRA KLZ KMBC KOH KSCJ
 KTRH KTBS KWOR WAAB WABC
 WBCB WBRB WCAH WCAU WDBJ
 WDBO WDOD WDRC WDSU WFLA
 WGR WGST WHAS WHEC WHP
 WISN WRBH WLAC WLWB WLBZ
 WMAL WMT WNOX WOKO WORC
 WQAM WREC WSBT WSFA WTAQ
 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 WEAF
 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 KTHS KYW WHEN WCAE
 WCSH WDAF WFAE WFCB WFEI
 WFAA WFBR WGY WHO WJAR
 WKY WLIT WQAI WOC WOW
 WRC WSAI WTAG WTAM WTIC
 WTMJ WWJ
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
 WDRC WEAN WFBL WGN WGR
 WGST WHK WJAS WKRC WMAL
 WNAC WOKO WOW 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 Skillset, 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 WCOO WDRC WEAN
 WFBL WFBM WGN WHC WHK
 WJAS WKWB WKRC WMAL WNAC
 WOKO WSPD WXYZ
R—Cluquot Club

KSD WBEN WCAE WCSH WDAF
 WFAE WFEN WFBR WGY WHO
 WJAR WLIT WLS WOC WOW WRC
 WSAI WTAG WTIC WWJ
B—Friendship Town

CFPC CKGW KDKA KFI KFSD
 KFJR KGO KGW KHQ KOA KOIL
 KOMO KPRC KSL KSTP KTAR
 KTHS KWK KYW WAPI WBAL
 WBZA WDAY WFCB WFLA WGAR
 WHAM WHAS WHA WIOD WIS
 WJAX WJDX WJR WJZ WKY WMC
 WOAI WREN WRVA WSB WSM
 WSBM WTMJ WWNC

ED-9:30 p.m., E-8:30, C-7:30, M-6:30
C—To the Ladies, Tito Guizar
 KMBC KMOX KRLL WABC WADC
 WCAO WCAU WCOO WDRC WEAN
 WFBL WFBM WGN WHK WJAS
 WKWB WKRC WMAL WNAC WOKO
 WOW WSPD WXYZ
R—Pond's Program

KSD WBEN WCAE WCSH WDAF
 WFAE WFEN 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 WFCB WFAA WGAR
 WHAM WHAS WIOD WJAX WJZ
 WKY WMAQ WMC WOAI WRVA
 WSB WSM WSBM WWNC

ED-9:45 p.m., E-8:45, C-7:45, M-6:45
C—Van Heusen, Gus Van
 KMBC KMOX KRLL WABC WADC
 WCAO WCAU WDRN 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 KRLL KWG WAAB WABC
 WADC WBBM WBT WCAO WCAU
 WCCO WDRC WEAN WFBL WHK
 WJAS WKWB WKRC WMAL WOKO
 WOW WREC WSPD WXYZ KFRC
B—Paul Whitman's Chieftains

KDKA KFI KFSD KFJR KGHL
 KGIR KGO KGW KHQ KOA KOIL
 KOMO KPRC KSL KSTP KTAR
 KVOO KWK WBAL WBAP WBZA
 WCKY WDAY WFCB WENR WFLA
 WGAR WHAM WHAS WHA WIOD
 WIS WJAX WJDX WJR WJZ WKY
 WMC WOAI WPTT WREN WRVA
 WSB WSM WSBM WTMJ WWNC
R—National Oratorio

KFSD KFJR KGO KGW KOA
 KOMO KSD KSL KTAR KTBS
 KTHS WBEN WCSH WDAY WFAE
 WFEI WENR WFBR WFLA WGY
 WIBA WIOD WJAR WJAX WJDX
 WKY WLIT WMC WOAI WOW
 WRC WRVA WSAI WSB WSM
 WTAG WTAM WTMJ WWJ

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 Reser and Orchestra
 CFPC CKGW KDKA KFJR KOA
 KSTP KTBS KWCR WBAL WFCB
 WENR WVA 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 KRLL
 KSCJ KTRH KTSA KVOR WAAB
 WABC WACO WBCM WBIG WBR
 WCAO WCAU WCCO WDAE WDBJ
 WDBO WDDO WDRC WDSU WEAN
 WFBL WFBM WFLA WPIW WEAN
 WHAS WHEC WHP WISN WKBH
 WKWB WLAC WLWB WLWZ 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 WBR WCAH WCAO
 WCAU WCCO WDAE WDBJ WDBO
 WDDO WDSU WEAN WFBM WFLA
 WPIW WGST WHAS WHEC WHP
 WISN WISN WKBH WKWB WLAC
 WLW WMBD WMT WNAX 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—Cheerio, 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 KFH KFJF KLZ KOH KOL
 KRLL KSCJ KTRH KVI KVOR
 WABC WACO WADC WBBM WBCM
 WBIG WBRB WCAO WCAU WCCO
 WDAE WDBJ WDBO WDDO WDRC
 WDSU WEAN WFLA WGR WHP
 WIBW WISN WLAC WLAP WLWB
 WMAL WMT WNAX WNOX WOKO
 WQAM WREC WRF WSA 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 KRLL KSCJ KTRH
 KVI KVOR WABC WACO WADC
 WBCM WBIG WBRB WBT WCAO
 WCAU WCCO WDAE WDBJ WDBO
 WDDO WDRC WDSU WEAN WFBL
 WPIW WGR WHEC WHP WIBW
 WISN WLAC WLAP WLWB WMAL
 WMT WNAX WNOX WOKO WORC
 WQAM WREC WSA WTAQ WTOC
 WWVA

R—Laws That Safeguard Society

KECA KEX KFSD KFJR KGA KJR
 KOA KPO KPRC KTAR KTHS
 WAPI WBEN WCSH WDAY WFAE
 WFCB WENR WFT WFLA WGY
 WHO WIOD WJAR WJDX WOC
 WOW WPTF WRVA WSAI WTAG
 WTIC

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
 KOL KOY KRLL KSCJ KTRH
 KVI KVOR WABC WACO WBCM
 WBIG WBRB WCAO WCAU WCCO
 WDAE WDBJ WDBO WDDO WDRC
 WDSU WEAN WFBL WFBM WFLA
 WPIW WGR WGST WHAS WHP
 WISN WJAS WLAC WLWB WLWZ
 WMAL WMT WNOX WOKO WORC
 WQAM WREC WRF WSBT WSA
 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 WDBO WDDO
 WDRC WDSU WEAN WFBL WFBM

Saturday—Continued

WFEA WHEC WHK WHP WJBW
WISN WKBW WLAC WLAP WLWB
WMAL WMT WNAK WNOX WOKO
WORC WOWO WQAM WREC WSBT
WSFA WSPD WTAQ WTAR WTOC
WWVA WXYZ

R — Ely Culbertson, Bridge
CFPC CKGW KSD WBEW WCSH
WDAF WFAF WEEL WFBW WPI
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 WBAL WBPB WKCY
WDAY WBEW 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 WFAF
WEEL WFBW WFI WHO WIOD WIS
WJR 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 WNAK WSPD WXYZ
B — Dance with Countess D'Orsay
CFPC 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 KFBB KFJF KFJF
KFJF KLRA KMBC KMOX KOH
KOL KSCJ KTRH KVI KVOR WAAB
WABC WADC WBCM WBIG WBRB
WBT WCAH WCAU WCCO WDAE
WDBJ WDOB WDOE WDRB WDSU
WEAN WFBL WFBM WFEA WHEC
WHK WHP WIBW WISN WKBW
WLAC WLAP WLWB WMAL WMT
WNAK WNOX WOKO WORC WOWO
WPG WQAM WREC WSBT WSFA
WSPD WTAQ WTAR WTOC WWVA
WXYZ

R — K-7, Drama
CFPC CKGW KFJR KGHF KGIR
KGO KGW KOA KOMO KPRC KSD
KSL KSTP KTAR KTHS KYW
WAPI WBEW WCAE WCSH WDAF
WFAF WFBW WEEL WFBW WFEA
WGY WHO WIBA WIS WJAR WKY
WMC WOC WOW WPTF WRC
WSAI WBS WSM WSMB WTAG
WTAM WTIC WTMJ WJZ WWNC

ED-9:30 p.m., E-8:30, C-7:30, M-6:30
C — U.S. Army Band
CFRB KDYL KFBB KFJF KFJF
KLZ KOY KSCJ KTRH KVI KVOR
WAAB WABC WBBM WBCM WBIG
WBRB WCAH WCAU WDAE WDOB
WDOE WDRB WDSU WEAN WFBL
WFBM WFEA WFI WGW WHTS
WHEC WHK WHP WISN WJAS
WKRB WLAC WLWB WLWZ WMAL
WMT WNOX WOKO WORC WQAM
WREC WSFA WSPD WTAQ WTAR
WTOC WWVA WXYZ

R — Club Valspar
CFPC CKGW KSD WBPB WBEW
WCAE WCSH WDAF WFAF WEEL
WFBW WFI WGY WHO WJAR
WMAQ WOC 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 WBAL WBZA WBEW WGAR
WHAM WJR WJZ WLS WREN
WTMJ

ED-10:00 p.m., E-9:00, C-8:00, M-7:00
C — Ruth Eiting, 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 KFBB KFJF KFJF KFJF
KLRA KLZ KMBC KMOX KOH KOI
KSCJ KTRH KVI KVOR WAAB
WABC WACO WADC WBCM WBIG
WBT WCAH WCAO WCAU WCCO
WDAE WDBJ WDOB WDOE WDRB
WDSU WEAN WFBL WFBM WFI WGW
WHEC WHK WHP WIBW WKBW
WLAC WLAP WLWB WMAL WMBD
WMT WNAK WNOX WOKO WORC
WPG WQAM WREC WSBT WSFA
WSPD WTAQ WTAR WTOC WXYZ

B — Snoop and Peep
CFPC 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
CFPC 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 KFBB KFJF
KFJF KFJF KLRA KLZ KMBC
KMOX KOH KOI KSCJ KTRH
KVOR WAAB WABC WACO WADC
WBCM WBIG WBRB WBT WCAH
WCAO WCCO WDAE WDBJ WDOB
WDOE WDRB WDSU WFBL WFBM
WFEA WFI WGW WGR WHEC
WHK WHP WIBW WIP WKBW
WLAC WLAP WLWB WMBD WMT
WNAK WOKO WORC WQAM WREC
WSBT WSPD WTAQ WTOC WWVA
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 WBCY WFAF WEEL WPI
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 KFBB KFJF
KFJF KFJF KLRA KLZ KMBC KOH
KOL KOL KRLD KSCJ KTRH
KVOR WAAB WABC WADC WBCM
WBIG WBRB WCAH WCAO WCCO
WDAE WDBJ WDOB WDOE WDRB
WDSU WFBM WFI WGW WHEC
WHP WFEA WISN WKBW WLAC
WLAP WLWB WMBD WMT WNAK
WNOX WOKO WORC WPG WQAM
WREC WSBT WSPD WTAQ WTOC
WWVA WXYZ

ED-12:00 m., E-11:00, C-10:00, M-9:00
C — Paul Specht and Orchestra
KDYL KFAB KFBB KFJF KFJF
KLRA KLZ KMBC KOH KOIN KOL
KRLD KSCJ KTRH KVOR WABC
WADC WBCM WBRB WBT WCAH
WCAO WCAU WCCO WDAE WDOB
WDOE WDSU WEAN WFBL WFBM
WFEA WFI WGW WHEC WHP
WIBW WISN WKBW WLAC WLAP

WLWB WMBD WMT WNAK WNAK
WNOX WOKO WQAM WREC WSBT
WSPD WTOC WWVA 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
KEK KFJR KGA KJR KOA KPO
KPRC KSTP WCSH WDAF WFAF
WFBW WFBW 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
KOIL 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 KFBB KLRA
KLZ KMBC KMOX KOIN KOL
KRLD KSCJ KTRH KVI KVOR
WAAB WABC WBRB WCAH WCAU
WCCO WDAE WDOB WDOE WDRB
WDSU WEAN WFBL WFEA WFI W
WGR WHP WIBW WISN WKBH
WLAP WLWB WMAL WMBD WMT
WOKO WORC WPG WQAM WREC
WSBT WSFA WSPD WWVA WXYZ

R — Silver Flute
CKGW WBEW WCSH WDAF WFAF
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 KFBB KLRA
KLZ KMBC KMOX KOIN KOL
KRLD KSCJ KTRH KVI KVOR
WAAB WABC WBRB WCAH WCAU
WCCO WDAE WDOB WDOE WDRB
WDSU WEAN WFBL WFEA WFI W
WGR WHP WIBW WISN WKBH
WLAP WLWB WMAL WMBD WMT
WNOX WOKO WPG WQAM WREC
WSBT WSFA WSPD WTOC WWVA
WXYZ

ED-1:00 p.m., E-12:00, C-11:00, M-10:00
C — Builders of America
KDYL KFAB KFBB KFJF KFJF
KLZ KMBC KMOX KOH KOL
KSCJ KTAU KVOR WAAB WABC
WBCM WCAU WCCO WDAE WDBJ
WDOB WFBW WGR WHAS WHEC
WHK WHP WIBW WISN WJAS
WKBH WKBW WLWB WMAL WMT
WNAK WOKO WPG WQAM WSBT
WSPD WTAQ WTAR WWVA WXYZ

ED-1:30 p.m., E-12:30, C-11:30, M-10:30
R — Peet Concert, Walter Logan
KFI KFSD KFJR KGO KGW KOA
KPRC KSD KSL KSTP KTAR KVOD
KWV WBEW WCAE WCSH WDAF
WDAY WFAF WEEL WFAA WFBW
WFI WFEA WGY WIOD WIS WJAR
WJAX WKY WLIW 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 WBRB WBT WCAO
WCAU WCCO WDRB WDSU WEAN
WGR WHK WJAS WKRC WLAC
WMAL WNAK WOKO WOWO

ED-2:30 p.m., E-1:30, C-12:30, M-11:30
C — Church of the Air
CFRB KDYL KFBB KFJF KGB
KLZ KMOX KOH KOI KSCJ KTRH
KVI KVOR WAAB WABC WACO

Sunday—Continued

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

R — Moonshine and Honeysuckle
 WCAE WCKY WCSH WDAF WFAF
 WEEL WFBR WGY WJAR WMAQ
 WRC WTAG WTAM WTIC WWJ

B — Yeast Fomers
 KDKA KFI KFSD KFYR KGHL
 KGIR KGO KGW KHQ KOA KOIL
 KPRC KSL KSTP KTAR KTHS
 KVOO KWK KYW WAPI WBAL
 WBZA WDAY WBEBC WFAPA 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 WHEN WCAE WCSH
 WDAF WFAF WEEL WFBR WGY
 WHO WJAR WLIT WOC WOW WRC
 WSAI WTAG WTAM WTIC WWJ

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

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

B — Sabbath Reveries
 KFSD KFYR KGIR KGO KHQ
 KOMO KPRC KSTP KTAR KTBS
 KTHS KVOC KWK WBAL WFAA
 WCKY WDAY WBEBC 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 KTBS KVOO KYW
 WBEN WCAE WCSH WDAF WDAY
 WFAF WBEBC WEEL WFAA WFBR
 WFLA WIBA WIOD WIS WJAR
 WJAX WJDX WKY WOAI WOW
 WPTF WRC WRVA WSAI WSM
 WSMB WTAG WTAM WTIC WWJ
 WWNC

C — Cathedral Hour
 CFRB KDYL KFAB KFBK KFPY
 KLZ KMBC KOH KOIN KOL KSCJ
 KVI KWOR WAAB WABC WADC WBCM
 WCAO WCCO WDAE WDBJ WDBO
 WDOD WDRC WFBL WGR WHEC
 WHP WIBW WKBH WKBW WLAC
 WLAP WLWB WMAL WMBD WMT
 WNOX WOKO WPG WQAM WSBT
 WSPD WTAQ WTAR WTOC WVA 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 KTBS KTHS KVOO
 KYW WAPI WBAP WBEN WCAE
 WCSH WDAF WDAY WFAF WBEBC
 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
 WTIC 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 WBEN WCAE WDAF WFAF
 WEEL WFLA WGY WJAR WKY
 WSAI WSM WTAG WTAM WTIC
 WWJ

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

B — Piccadilly Circus
 CFCE CKGW KDKA KFI KFSD
 KFYR KGHL KGIR KGO KGW
 KHQ KOA KOIL KOMO KPRC KSL
 KSTP KTAR KTHS KVOO KWK
 WAPI WBAL WBAZ WCKY WDAY
 WBEBC 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 — Pastorate
 CFRB KDYL KFAB KFBK KFH
 KFPY KGB KLRA KLZ KMBC
 KMOX KOH KOL KSCJ KTRH KVI
 KWOR WAAB WABC WADC WBCM
 WBRB WBT WCAH WCAO WCAU
 WCCO WDAE WDBJ WDOD WDRC
 WDSU WEAN WFBL WFBM WFEA
 WGL WGR WHP WIBW WKBH
 WKBW WLAB WLWB WLZ WMBD
 WMT WNOX WOKO WORC WOWO
 WQAM WREC WSPA WSPD WTAQ
 WTAR WTOC WVA WXYZ

B — Sabbath Reveries
 KFSD KFYR KGIR KGO KHQ
 KOMO KPRC KSTP KTAR KTBS
 KTHS KVOC KWK WBAL WFAA
 WCKY WDAY WBEBC 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
 WDHC WEAAN WFBL WGR WHEC
 WHP WOKO WORC

C — Chicago Knights
 KDYL KFAB KFBK KFH KFPY
 KGB KLZ KMBC KMOX KOH
 KOIN KOL KRLD KSCJ KVI KWOR
 WADC WBBM WCAH WCCO WFBM
 WKHH WLAP WMT WSBT WTAQ
 WVA WXYZ

R — Slow River
 WBN WCSH WFAF WFLA WGY
 WHO WIOD WJAR WMAQ WOC
 WOW WRC WRVA WSAI WTAM
 WTIC 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 WDOD WDOD WDSU WFIV

WGST WIP WLAC WNOX WODX
 WPG WQAM WREC WSPA WTAR
 WTOC

R — Catholic Hour
 KEX KFYR KGA KGHL KGIR KJR
 KOA KPO KPRC KSD KSTP KTAR
 KTBS KVOO WBAP WBEN WCAE
 WCSH WDAF WDAY WFAF WBEBC
 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
 WTIC WWJ WWNC

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

C — Roses and Drums, Drama
 KMBC KMOX KRLD 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 KFH KFJF
 KFPY KGB KLZ KMBC KXO KHQ
 KOL KOY KRLD KSCJ KTRH
 KVI KWOR WABC WACO WBCM
 WDBJ WDBO WDOD WDRC WDSU
 WFEA WFLA WGAR WHAM WIOD
 WIS WJAX WJDX WJZ WKY WMC
 WOAI WOC WOW WPTF WRC
 WRVA WSAI WSB WSM WSMB
 WTAG WTAM WTIC WTMJ WWJ
 WWNC

R — G.E. Circle
 KFI KFSD KFYR KGO KGW KHQ
 KOA KOMO KPRC KSL KSTP
 KTAR KVOO WAPI WBAP WBEN
 WCAE WCSH WDAF WDAY WFAF
 WBEBC WEEL WENR WFBR WFLA
 WGY WHO WIBA WIOD
 WIS WJAR WJAX WJDX WKY WMC
 WOAI WOC WOW WPTF WRC
 WRVA WSAI WSB WSM WSMB
 WTAG WTAM WTIC 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 KFH KFJF
 KFPY KGB KLZ KMBC KXO KHQ
 KOH KOL KOY KRLD KSCJ KTRH
 KVI KWOR WABC WACO WBCM
 WDBJ WDBO WDOD WDRC WDSU
 WFEA WFLA WGAR WHAM WIOD
 WIS WJAX WJDX WKY WMC
 WOAI WOC WOW WPTF WRC
 WRVA WSAI WSB WSM WSMB
 WTAG WTAM WTIC WTMJ WWJ
 WWNC

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 WTIC WWJ

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

Sunday—Continued

WJZ WKY WLW WMC WQAI 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 WHW WJAZ
WKRC WLAP WNAC WOKO WPG
WXYZ

ED-8:15 p.m., E-7:00, C-6:00, M-5:00
R—Chase & Sanborn Hour
CFCF CGFW KFI KPFD KFYZ KGO
KGW KHQ KOA KOMO KPBC KSD
KSL KSTP KTAR KTHS KYVO
WBEN WCAE WCSH WDAF WDAY
WEAF WBCB WFAA WFBR WFLA
WGY WHAS WHO WIOD WIS WJAR
WJDX WKY WLIT WLS WMC WQAI
WOC WOV WPTF WRC WSAI WWSA
WSMB WTAM WTC WTMJ WJZ
WVNC

B—McCraw 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 KGO

ED-8:30 p.m., E-7:30, C-6:30, M-5:30
C—Highway Traveler
KMBC KMOX KTRH KTSa WABC
WADC WBCB WBT WCAH WCAO
WCAU WCCO WDOD WDRC WEAN
WFBL WFBM WGN WGR WGST
WHCC WHK WISN WJAS WKRC
WLAP WMAL WNAC 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 KFY KPRC
KGB KHJ KLZ KMBC KMJ KMOX
KOLN KOL WABC WADC WCAO
WCAU WCCO WDRC WEAN WFBL
WGN WGR WHK WJAS WKRC
WMAL WNAC WOVO WSPD WXYZ
C—Col. Stoopnagle and Budd
KLRA KRBK WBT WDAE WDBJ
WDBO WDOD WDSU WFIW WLAC
WREC WTR WTC

ED-9:00 p.m., E-8:00, C-7:00, M-6:00
C—Ever-Ready Gaieties
KDB KDYL KERN KFBK KFPY
KPRC 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 WOVO WOV
WRR WSPD WXYZ

R—Our Government, David Lawrence
KSD KTBS KTHS KYVO WCSH
WEAF WENR WFAA WFBR WFLA
WGY WHO WIOD WIS WJAR WJDX
WOC WOV WPTF WRC WSAI
WVNC

B—Enna Jettick Melodies
CFCF CGFW KDKA KFI KPFD
KFYR KGHL KGIR KGO KGW
KHQ KOA KOIL KOMO KPBC
KSL KSTP KTAR KTHS KTHS
KYVO KWCR KWK KYW WBAL
WBZA WDAY WECB WFAA WFLA
WGAR WHAM WHAS WIBA WIOD
WIS WJDX WJR WJZ WKY WMC
WQAI 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
KPFD KFYR KGHL KGIR KGO
KGW KHQ KOA KOMO KPBC KSD
KSL KSTP KTAR KTHS WAPI
WBEN WCAE WCSH WDAY WEAF
WEBC WENR WFBR WFI WFLA
WGY WHAS WHO WIBA WIOD
WJAR WJAX WJDX WKY WQAI
WOC WOV WRC WRVA WSAI
WSB WSM WSMB WTAG WTAM
WTMJ WJZ

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
KFJF KLRA KMBC KMOX KTSa
WABC WADC WBT WCAO WCAU
WCCO WDRC WEAN WFBL WGN
WGR WGST WHK WJAS WKRC
WMAL WNAC WNOX WOKO WOV
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 KPFD KFYR KGHL KGO
KGW KHQ KOA KOMO KPBC
KSL KSTP KTAR KTHS KYW
WBEN WCAE WCSH WDAF WFAF
WEBC WESL WFBR WFI WGY
WIBA WIS WJAR WOV WRVA
WSAI WSM WTAM WTC 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 KWR
WABC WACO WADC WBCM WBRB
WBT WCAH WCAU WCCO WDAE
WDBJ WDBO WDRC WDSU WEAN
WFBL WFBM WFEA WFIW WGL
WGR WHEC WHK WHP WIBW
WISN WKHB WKBW WLAC WLAP
WLW WMAL WMT WNAC WNAK
WNOX WORC WREC WSFA WSPD
WTR WTC WVA

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

R—Shaefer Lifetime Revue
KSD KYW WBEN WCAE WCSH
WDAF WEAF WEEI WFBR WFI
WGY WHO WJAR WOC WOV
WRC WSAI WTAG WTAM WTC
WVJZ

ED-10:30 p.m., E-9:30, C-8:30, M-7:30
C—Ziegfeld Radio Show
KDB KDYL KERN KFBK KFJF
KFPY KRC KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOLN KOL
KRLD KSCJ KTSa KVI KWG
WAAB WABC WADC WBRB WBT
WCAH WCAO WCAU WCCO WDAE
WDBJ WDBO WDOD WDRC WDSU
WFBL WFBM WFIW WGN WGR
WGST WHEC WHK WIBW WISN
WJAS WKHB WKRC WLAC WLAP
WLW WMAL WMT WNOX WOKO
WOVO WQAM WREC WSPD WTAQ
WTR WTC WXYZ

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

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 WDOD WDRC
WDSU WEAN WFBL WFBM WFEA
WFIW WGL WGR WHEC WHP
WIBW WISN WKHB WKBW WLAC
WLAP WLW WMAL WMBD WMT
WNOX WOKO WPG WQAM WREC
WSFA WSPD WTR WTC WXYZ

ED-11:15 p.m., E-10:15, C-9:15, M-8:15
R—Russ Columbo and Orchestra
KGHL KGO KOA KOMO KPBC
KTBS WCKY WEAF WFBR WFI
WGY WHO WIBA WOC WOV WRC
WSMB WJZ

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 WDOD WDSU
WEAN WFBL WFBM WFEA WFIW
WGL WGR WHEC WHP WIBW WISN
WKHB WLAP WLW WMAL WMT
WNAC WNAK WNOX WQAM WREC
WSBT WSFA WSPD WTC

C—Pennzoil Parade
KDYL KERN KFBK KFPY KPRC
KGB KHJ KLZ KMJ KOH KOLN
KOL KWK

R—Jesse Crawford, Organ
WCAE WCKY WDAF WEAF WFBR
WGY WHO WJAR WMAQ WOC
WOV WRC WTAM WJZ

B—Ted Cook's Orchestra
KFYR KOIL KWCR KWK WBAL
WENR WIBA WJR WJZ WKY
WSB

ED-12:00 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 WDOD WDSU
WEAN WFBL WFBM WFEA WFIW
WGR WGST WHAS WHEC WHP
WIBW WISN WKHB WKBW WLAC
WLW WMAL WMBD WMT WNAC
WNAK WNOX WOKO WPG WQAM
WREC WSBT WSFA WSPD WTR
WTC

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 WFBR WHO WOC
WTR WTMJ

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, correct 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

550 kilocycles 545.1 meters

KFDY † 500 1+ Brookings, S. D.
 KFUO † 500 2+ St. Louis, Mo.
 KFJR † 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

560 kilocycles 535.4 meters

KFDM * 530 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.
 WPCW * 500 3S Chicago, Ill.
 WQAM * 1000 C Miami, Fla.

570 kilocycles 526.0 meters

KGKO * 250 + Wichita Falls, Texas
 KMTR * 500 --- Hollywood, Cal.
 KVI * 500 C Tacoma, Wash.
 TGW -- 50 --- Guatemala
 WEAO † 750 --- 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.

580 kilocycles 516.9 meters

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

590 kilocycles 508.2 meters

EJGC * 5000 595a London, Ont. 79½
 CMW -- 1400 588 Havana, Cuba
 CNRL * 5000 595a London, Ont.
 KHQ -- 1000 +N Spokane, Wash.
 WCAJ * 500 1 Lincoln, Nebr.

99½
 Essex Broadcasters, Ltd.

96
 S. D. State College
 Concordia Theological Seminary
 Meyer Broadcasting Co.
 State Agricultural College
 Pulitzer Publishing Co.
 Buffalo Broadcasting Co.
 WKRC Incorporated

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.

87½
 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.

84½
 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.
 WOBU, Inc.
 WSAZ, Inc.
 Telegram Publishing Co.

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

INDEX BY FREQUENCIES AND DIAL NUMBERS

WBEI	†	1000	R	Boston, Mass.
WGCM	*	1000	D	Gulfport, Miss.
WKZO	*	1000	D	Kalamazoo, Mich.
WOW	*	1000	1R	Omaha, Nebr.

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

KCYS.
670

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.

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

MTRS.
447.5
DIAL

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.
WJAY	†	500	D	Cleveland, Ohio
XETR	--	2500	---	Mexico City, Mexico

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.

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.
WLBZ	†	500	C	Bangor, Maine
WSUN	*	1000	+N	St. Petersburg, Fla.
WTMJ	*	1000	+N	Milwaukee, Wis.

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

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	I	Columbia, Mo.
KGFB	--	200	D	Pierre, S. D.
WGBF	†	500	I	Evansville, Ind.
WMAL	*	250	+C	Washington, D. C.
WOS	*	500	I	Jefferson City, Mo.
XETF	--	500	---	Veracruz, Ver.

Victoria Broadcasting Association
Hamilton Spector
Winnipeg 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.

640 kilocycles 468.5 meters

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

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

650 kilocycles 461.3 meters

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

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

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.

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.

670 kilocycles 447.5 meters

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

Wesley United Church
National Broadcasting Co.

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.
CJ CJ	*	500	1	Calgary, Alta.
CNRX	*	4000	a	Toronto, Ont.
NAA	--	1000		Arlington, Va.
VAS	†	2000	685	Glace Bay, N. S.
XET	†	500	---	Monterrey, Mexico
V CX	--	100	---	Halifax, N. S.

--	--	--

The Calgary Herald
Roberts-Majestic Corp., Ltd.
Algeron 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

KMPC	*	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.
CKAC	†	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.

495		
-----	--	--

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.

47		
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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.
WPOR	--	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

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

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

800 kilocycles 374.8 meters

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

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Carter Publications, Inc.
News & Journal

810 kilocycles 370.2 meters

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.

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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

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

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

830 kilocycles 361.2 meters

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

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

840 kilocycles 356.9 meters

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

33		
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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

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

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Manuel Fernandez
Hello World Broadcasting Corp.
Loyola University

860 kilocycles 348.6 meters

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

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

870 kilocycles 344.6 meters

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

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

880 kilocycles 340.7 meters

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

31 1/2		
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Maple Leaf Radio Co., Lt.3.
N. Nathanson
Vandry, Inc.
Cyrus Dolph
Canadian National Railways
Northwestern Radio Corp.
Tribune Publishing Co.
Pillar of Fire, Inc.
Mississippi Broadcasting Co., Inc.
Scranton Broadcasters, Inc.
Scranton Times
University of Iowa

INDEX BY FREQUENCIES AND DIAL NUMBERS

890 kilocycles 336.9 meters

CFBO	*	500		St. John, N. B.
CKCO	†	100	---	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

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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.

29 1/2		
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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

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

920 kilocycles 325.9 meters

CMD	--	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.

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Angel Bertermaty
 Antonio Ginard
 Republic of Haiti
 Eugene P. O'Fallon, Inc.
 Colorado Radio Corp.
 Fisher's Blend Station, Inc.
 Houston Printing Co.
 Drivers' 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+X	Oakland, Cal.
WBRC	*	500	+C	Birmingham, Ala.
WDBJ	*	250	+C	Roanoke, Va.
WIBG	*	25	D	Elkins Park, Pa.

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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.
WGSB	*	1000	R+	Portland, Maine
WDAY	*	1000	N	Fargo, N. D.
WFIW	*	1000	C	Hopkinsville, Ky.
WHA	--	750	D+	Madison, Wis.
XEO	--	5000	---	Mexico City

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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.

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Manuel Alvarez
 Warner Bros. Broadcasting Corp.

INDEX BY FREQUENCIES AND DIAL NUMBERS

KGHL	..	1000	B+	Billings, Mont.
KMBC	*	1000	C	Kansas City, Mo.
VONA		30		St. John's, N. F.
WRC	†	500	R	Washington, D. C.

Northwestern Auto Supply Co., Inc.
Midland Broadcasting Co., Inc.
Lane, Gillard & Avery
National Broadcasting Co., Inc.

960 kilocycles 312.3 meters

CHCK	..	100	---	Charlottetown, P. E. I.
CHWC	*	500	3	Regina, Sask.
CJBR	..	500	3a	Regina, Sask.
CKCK	†	500	3a	Regina, Sask.
CKNC	*	500	---	Toronto, Ont.
CMBC	..	150	965	Havana, Cuba
CMBD	..	150	965	Havana, Cuba
CMJL	..	50	---	Camaguey, Cuba
CNRR	..	500	3a	Regina, Sask.
XED	*	10000	965	Reynosa, Mexico

W. E. Burke & J. E. Gesner
R. H. Williams & Sons, Ltd.
Cooperative Wheat Producers, Ltd.
Leader-Post, Ltd.
Canadian National Carbon Co., Ltd.
Domingo Fernandez
Luis Perez Garcia
Enrique Artimes
Canadian National Railways
International Broadcasting Co.

970 kilocycles 309.1 meters

KJR	*	5000	N	Seattle, Wash.
WCFL	..	1500	R Dn	Chicago, Ill.

Northwest Broadcasting System, Inc.
Chicago Federation of Labor

980 kilocycles 305.9 meters

CFCN	..	10000	985	Calgary, Alta.
KDKA	..	50000	B	Pittsburgh, Pa.
TI4NRH	..	15	---	Heredia, C. R.

W. W. Grant & H. G. Love
Westinghouse Elec. & Mfg. Co.
Armando Cespedes

990 kilocycles 302.8 meters

CMGF	†	50	987	Matanzas, Cuba
WBZ	†	25000	B□X	Boston, Mass.
WBZA	†	1000	B□X	Springfield, Mass.
XEK	..	101	---	Mexico City

Bernabe R. de la Torre
Westinghouse Elec. & Mfg. Co.
Westinghouse Elec. & Mfg. Co.
Arturo Martinez

1000 kilocycles 299.8 meters

KFVD	*	259	Dn	Los Angeles, Calif.
WHO	*	5000	R□X	Des Moines, Iowa
WOC	*	5000	R□X	Davenport, Iowa
WORK	..	1000	D	York, Pa.
XEA	..	100	---	Guadalajara, Jal.
XEC	..	50	---	Toluca, Mex.
XEE	*	105	---	Oaxaca, Oax.
XEFE	..	100	---	N. Laredo, Tams.
XEFI	..	100	---	Chihuahua, Chih.
XEFS	..	40	---	Queretaro, Qro.
XEI	*	101	---	Morelia, Mexico
XEJ	*	101	---	Juarez, Chih.
XEL	..	25	---	Saltillo, Coah.
XETC	..	100	---	Jalapa, Ver.
XETG	..	100	---	Torreon, Coah.
XEU	..	100	---	Veracruz, Ver.
XEV	..	100	---	Puebla, Pue.
XEY	..	105	---	Merida, Yuc.

Los Angeles Broadcasting Co.
Central Broadcasting Co.
Central Broadcasting Co.
York Broadcasting Co.
Alberto Palos Sauza
Jesus R. Benavides
Alfonso Zorilla B.
Rafael T. Carranza
Feliciano Lopez Isla
Salvador Sanchez
Carlos Gutierrez M.
Juan G. Buttner
Antonio Garza Castro
Juventino Sanchez
Feliciano Lopez Isla
Fernando Pazos
Ciro Molina
Partido Socialista S. E.

1010 kilocycles 296.8 meters

CKIC	..	50	---	Wolfville, N. S.
CMBZ	..	150	---	Havana, Cuba
KGGF	†	500	2	Coffeyville, Kans.
KGW	*	500	---	San Jose, Cal.
WHN	*	250	1	New York City
WIS	*	500	+N	Columbia, S. C.
WNAD	*	500	2	Norman, Okla.
WPAP	*	250	1	New York City
WQAO	..	250	1	New York City
WRNY	..	250	1	New York City

Acadia University
Manual y G. Salas
Powell & Platz
Pacific Agricultural Foundation, Ltd.
Marcus Loew Booking Agency
South Carolina Broadcasting Co., Inc.
University of Oklahoma
Calvary Baptist Church
Calvary Baptist Church
Aviation Radio Station, Inc.

1020 kilocycles 293.9 meters

CMJH	..	15	1017	Ciego de Avila, Cuba
KFKX	*	10000	a	Chicago, Ill.
KYW	*	10000	Na	Chicago, Ill.
WRAX	†	250	D	Philadelphia, Pa.

Luis Marauri
Westinghouse Elec. & Mfg. Co.
Westinghouse Elec. & Mfg. Co.
WRAX Broadcasting Co.

KCYS.
1020
MTRS.
293.9
DIAL

INDEX BY FREQUENCIES AND DIAL NUMBERS

1030 kilocycles 291.1 meters

CFCF	--	500	N	Montreal, Que.
CMHI	--	30	---	Santa Clara, Cuba
CMKC	*	150	1034	Santiago de Cuba
CNRV	↑	500	---	Vancouver, B. C.
XEB	↑	1000	---	Mexico City, Mexico

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Canadian Marconi Co.
Lavin y Paz
M. P. Martinez
Canadian National Railways
El Buen Tono, S. A.

1040 kilocycles 288.3 meters

CMGH	--	150	---	Matanzas, Cuba
KRLD	*	10000	CI	Dallas, Texas
KTHS	↑	10000	NI	Hot Springs, Ark.
WKAR	*	1000	D	East Lansing, Mich.

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Alberto Alvarez
KRLD Radio Corp.
Chamber of Commerce
Michigan State College

1050 kilocycles 285.5 meters

CMJG	--	50	---	Camaguey, Cuba
KFBI	*	5000	Dn	Milford, Kansas
KNX	*	5000	---	Hollywood, Cal.
XEFC	--	10	---	Merida, Yuc.

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Jose Antonio Lefran
Farmers & Bankers Life Insurance Co.
Western Broadcast Co.
Hugo Molina Font.

1060 kilocycles 282.8 meters

KWJJ	*	500	Dn	Portland, Ore.
WBAL	*	10000	IB	Baltimore, Md.
WJAG	*	1000	Dn	Norfolk, Nebr.
WTIC	*	50000	IR	Hartford, Conn.

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KWJJ Broadcast Co., Inc.
Consolidated Gas Elec. & Pwr. Co.
Norfolk Daily News
Travelers Broadcasting Service Corp.

1070 kilocycles 280.2 meters

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

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Francisco Garrigo
Antonio Capablanca
Julius Brunton & Sons Co.
Superior Broadcasting Service
James L. Bush
National Broadcasting Co., Inc.
Miguel Yarza

1080 kilocycles 277.6 meters

WBT	*	5000	CX	Charlotte, N. C.
WCBD	*	5000	1 Dn	Zion, Ill.
WMBI	*	5000	1 Dn	Chicago, Ill.

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Station WBT, Inc.
Wilbur Glenn Voliva
Moody Bible Institute

1090 kilocycles 275.1 meters

KMOX	*	50000	C	St. Louis, Mo.
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Voice of St. Louis, Inc.

1100 kilocycles 272.6 meters

KGDM	*	250	DX	Stockton, Cal.
WLWL	*	5000	1	New York City
WPG	*	5000	1C	Atlantic City, N. J.

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E. F. Peffer
Missionary Society of St. Paul
WPG Broadcasting Corp.

1110 kilocycles 270.1 meters

KSOO	*	2500	Dn	Sioux Falls, S. D.
KZKA	--	1000	---	Manilla, P. I.
WRVA	*	5000	N	Richmond, Va.

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Sioux Falls Broadcasting Assn., Inc.
Larus & Bros. Co., Inc.

1120 kilocycles 267.7 meters

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

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Star Pub. & Ptg. Co.
D. S. Dalgleish & 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

1130 kilocycles 265.3 meters

KSL	*	5000	NX	Salt Lake City
WJJD	*	20000	Dn	Mooseheart, Ill.
WOV	--	1000	D	New York City
XEBH	--	1000	1132	Monterrey, N. L.

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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
 CMCQ -- 1000 --- Havana, Cuba
 KVOO * 5000 INX Tulsa, Okla.
 WAPI * 5000 INX 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 --- Colton, 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.
 KGH1 * 100 --- Little Rock, Ark.
 KMLB * 100 D Monroe, La.
 KVOS * 100 --- Bellingham, Wash.
 KWG * 100 --- Stockton, Cal.
 WABI † 100 --- Bangor, Maine
 WABZ * 100 1 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.
 WWAE * 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 Brdcastg 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 Brdcastg. 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

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.
WBQ	*	100	6	Harrisburg, Ill.
WBEC	*	100	4	Chicago, Ill.
WGBB	--	100	3	Freeport, N. Y.
WHBF	*	100	---	Rock Island, Ill.
WHBU	†	100	---	Anderson, Ind.
WIBU	*	100	---	Poyntette, 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

1210		
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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
 Gadsen 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.
WDAE	*	1000	R	Pittsburgh, Pa.
WDAE	*	1000	C	Tampa, Fla.
WREN	*	1000	1B	Lawrence, Kansas

1220		
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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
KFQD	--	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.

1230		
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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.

1240		
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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.

INDEX BY FREQUENCIES AND DIAL NUMBERS

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

1320 kilocycles 227.1 meters

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



C. P. Ritchie & J. E. Finch
Honolulu Broadcasting Co., Ltd.
KID Broadcasting Co.
Allen T. Simmons
WSMB, Inc.

1330 kilocycles 225.4 meters

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



Don Lee, Inc.
KMO, Inc.
Perkins Bros. Co.
WDRC, Inc.
Crosley Radio Corp., Lessee
Gillette Rubber Co.

1340 kilocycles 223.7 meters

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



Aurelio Hernandez
M. D. Aufran
Southwestern Hotels Co.
Symons Broadcasting Co.
Pensacola Broadcasting Co.
Toledo Broadcasting Co.

1350 kilocycles 222.1 meters

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



Boise Broadcasting Station
Greater St. Louis Brdctg. Corp.
Pillar of Fire
Standard Cahill Co., Inc.
Italian Educ. Broadcasting Co., Inc.
Emory & Henry College
Madison Sq. Garden Brdctg. Corp.

INDEX BY FREQUENCIES AND DIAL NUMBERS

1360 kilocycles 220.4 meters

KGEB	*	1000	---
KGIR	†	500	N
WCSC	*	500	---
WFBL	*	1000	CX
WGES	*	500	1+
WJKS	*	1000	1+Z
WQBC	†	500	D

Long Beach, Cal.
Butte, Montana
Charleston, S. C.
Syracuse, N. Y.
Chicago, Ill.
Gary, Ind.
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

CMGE	--	30	1375
HRB	--	2300	---
KCRC	†	100	2+
KBFL	*	50	3
KFTM	†	100	---
KFTZ	*	100	---
KFLX	*	100	---
KGAR	*	100	---
KGDA	†	100	+
KGFG	†	100	2
KGFL	†	50	4
KGKL	†	100	---
KICA	---	100	4CP
KMAC	---	100	5
KONO	†	100	5
KOOS	*	100	---
KRE	---	100	---
KUJ	†	100	---
KVL	---	100	3
KWKC	---	100	---
WBTM	†	100	7
WCBM	*	100	+Z
WDAS	†	100	+
WESG	*	50	---
WGL	---	100	C
WHBD	†	100	---
WHBQ	†	100	---
WHDF	†	100	+
WIBM	---	100	1
WJBK	*	50	1
WJTL	---	100	---
WLEY	---	100	+
WLVA	†	100	7
WMBR	†	100	---
WPFB	†	100	---
WQDM	*	100	D
WRAK	*	100	6
WRAM	*	100	---
WRDO	†	100	---
WRJN	---	100	---
WSVS	*	50	---
-----	---	100	6

Cardenas, Cuba
Tegucigalpa, Hond.
Enid, Okla.
Everett, Wash.
Grand Forks, N. D.
Ft. Worth, Texas
Galveston, Texas
Tucson, Arizona
Mitchell, S. D.
Oklahoma City
Raton, N. M.
San Angelo, Texas
Clovis, N. Mex.
San Antonio, Texas
San Antonio, Texas
Marshfield, Ore.
Berkeley, Cal.
Walla Walla, Wash.
Seattle, Wash.
Kansas City, Mo.
Danville, Va.
Baltimore, Md.
Philadelphia, Pa.
Glens Falls, N. Y.
Fort Wayne, Ind.
Mount Orab, Ohio
Memphis, Tenn.
Calumet, Mich.
Jackson, Mich.
Detroit, Mich.
Atlanta, Ga.
Lexington, Mass.
Lynchburg, Va.
Tampa, Fla.
Hattiesburg, Miss.
St. Albans, Vt.
Williamsport, Pa.
Wilmington, N. C.
Augusta, Maine
Racine, Wis.
Buffalo, N. Y.
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
KOH	†	500	C
KQV	†	500	2
KSO	*	500	1
WKBH	*	1000	1C
WSMK	*	200	2
XETB	---	125	---

Camaguey, Cuba
Reno, Nevada
Pittsburgh, Pa.
Clarinda, Iowa
La Crosse, Wis.
Dayton, Ohio
Torreon, 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

KCYS.
1400
MTRS.
214.2
DIAL

1390 kilocycles 215.7 meters

CMCG	--	30	1395
CMCH	--	20	1395
CMCM	--	15	1395
CMDB	--	40	1395
KLRA	*	1000	1C
KOY	*	500	C
KUGA	†	1000	1
WHK	*	1000	C

Havana, Cuba
Havana, Cuba
Havana, Cuba
Havana, Cuba
Little Rock, Ark.
Phoenix, Arizona
Fayetteville, Ark.
Cleveland, Ohio

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

1400 kilocycles 214.2 meters

KLO	*	500	---
KOCW	*	250	++
WBAA	†	500	1+

Ogden, Utah
Chickasha, Okla.
Lafayette, Ind.

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Interstate Broadcasting Corp.
College for Women
Purdue University

INDEX BY FREQUENCIES AND DIAL NUMBERS

WBBC * 500 2
 WCGU * 500 2
 WCGM * 500 1
 WFOX * 500 2
 WKBF -- 500 1
 WLTH * 500 2
 XEP -- 200 ---

Brooklyn, N. Y.
 Brooklyn, N. Y.
 Culver, Ind.
 Brooklyn, N. Y.
 Indianapolis, Ind.
 Brooklyn, N. Y.
 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

KFLV † 500 4
 KGRS * 1000 1
 WAAB * 500 C
 WBCM * 500 C
 WDAG * 1000 1
 WHBL * 500 4
 WHIS † 250 2
 WODX * 500 3C
 WRBX * 250 2
 WSWA † 500 3C

Rockford, Ill.
 Amarillo, Texas
 Boston, Mass.
 Bay City, Mich.
 Amarillo, Texas
 Sheboygan, Wis.
 Bluefield, W. Va.
 Mobile, Ala.
 Roanoke, Va.
 Montgomery, Ala.

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 ---
 KBPS -- 100 4
 KCMC -- 100 ---
 KFIZ * 100 ---
 KFXY † 100 Y
 KGFF † 100 ---
 KGGC † 100 5
 KGIW † 100 ---
 KGIX † 100 ---
 KGKX † 100 ---
 KGOV † 100 DZ
 KICK * 100 Y
 KORE * 100 ---
 KWCR † 100 B
 KXL * 100 4
 KXYZ -- 100 ---
 WAGM -- 100 ---
 WDEV -- 50 D
 WEHS -- 100 a
 WELL † 50 ---
 WENC -- 100 D
 WERE * 100 ---
 WFDW * 100 ---
 WHDL * 100 D
 WHFC -- 100 a
 WILM * 100 ---
 WJBO * 100 ---
 WJMS -- 100 D
 WKBI -- 100 a
 WLBF † 100 ---
 WMBC * 100 ---
 WMBH -- 100 +
 WPAD -- 100 ---
 WSPA * 100 ---
 WTBO * 100 +

San Antonio, Texas
 Portland, Ore.
 Texarkana, Ark.
 Fond du Lac, Wis.
 Flagstaff, Arizona
 Shawnee, Okla.
 San Francisco, Cal.
 Trinidad, Colo.
 Las Vegas, Nevada
 Sand Point, Idaho
 Missoula, Montana
 Red Oak, Iowa
 Eugene, Ore.
 Cedar Rapids, Iowa
 Portland, Ore.
 Houston, Texas
 Presque Isle, Maine
 Waterbury, Vt.
 Cicero, Ill.
 Battle Creek, Mich.
 Americus, Ga.
 Erie, Pa.
 Anniston, Ala.
 Tupper Lake, N. Y.
 Cicero, Ill.
 Wilmington, Del.
 New Orleans, La.
 Ironwood, Mich.
 Cicero, Ill.
 Kansas City, Kansas
 Detroit, Mich.
 Joplin, Mo.
 Paducah, Ky.
 Spartanburg, S. C.
 Cumberland, Md.

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
 KGNF † 500 D
 WBAK † 500 1+
 WCAH † 500 C□
 WFEA * 500 C
 WHEC * 500 C
 WHP * 500 1C+□
 WNBR * 500 ---
 WOKO † 500 C□

Los Angeles, Cal.
 North Platte, Nebr.
 Harrisburg, Pa.
 Columbus, Ohio
 Manchester, N. H.
 Rochester, N. Y.
 Harrisburg, Pa.
 Memphis, Tenn.
 Albany, N. Y.

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
 CMBL -- 20 1444
 CMBN -- 30 1444
 KDFN † 500 ---
 KLS * 250 D
 WBIG * 500 C

Havana, Cuba
 Havana, Cuba
 Havana, Cuba
 Casper, Wyo.
 Oakland, Cal.
 Greensboro, N. C.

Francisco Mayorquin
 Julio C. Hidalgo
 Armando 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

--	--	--

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.
KGFI	*	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.
WFDV	†	100	---	Rome, Ga.
WKBV	*	100	+	Connersville, Ind.
WKBZ	†	50	---	Ludington, Mich.
WLBX	*	100	1	Long Island City, N. Y.
WLOE	*	100	+	Boston, Mass.
WMBA	†	100	---	Newport, R. I.
WMBQ	*	100	1	Brooklyn, N. Y.
WMIL	†	100	1	Brooklyn, N. Y.
WMPC	†	100	---	Lapeer, Mich.
WNB	*	100	---	Binghamton, N. Y.
WOP	*	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 Basail
Santa Barbara Broadcasters. Ltd.
Eagle Broadcasting Co., Inc.
Red River Broadcasting Co., Inc.
Grant City Park Corp.
East Texas Brcdstg. Co.
Hilliard Co., Inc.
KNOW Broadcasting Co.
A. P. Miller
Wescoast Broadcasting Co.
J. S. Edwards
E. R. Irely 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 Brcdstg. Station, Inc.
Wm. Penn Broadcasting Co.
Muslcove, Inc.
Philip Weiss Music Co.
Long Island Broadcasting Corp.
Walker & Downing Radio Corp.
Manuel Zetina
Attala Milling & Produce Co.

KCYS.
1500
MTRS.
199.9
DIAL

INDEX BY LOCATIONS WITH MAP KEY

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

ALABAMA

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

ALASKA

Anchorage	250	KFOD	1230
Ketchikan	500	KGBU	900

ARIZONA

Flagstaff M-7	100	KFXV	1420
Jerome M-6	100	KGRJ	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

ARKANSAS

Blytheville M-19	50	KLCN	1290
Fayetteville M-16	1000	KUOA	1390
Fort Smith N-16	50	KFPW	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	KGFJ	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	KFSN N	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	KFFX	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	KFKA	880
Pueblo L-11	250	KGHF	1320
Trinidad L-11	100	KGIW	1420
Yuma J-12	100	KGEK	1200

CONNECTICUT

Bridgeport H-27	250	WICC	600
Hartford H-27	500	WDRG C	1330
	50000	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	WIOD 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	WTOX 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		Kcys.
Carthage J-18	50	WCAZ	1070
Chicago I-20	10000	KFKX	1020
	10000	KYW N	1020
	500	WAAF	920
	25000	WBBM 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	WMBI	1080
	500	WPCC	560
	100	WSBC	1210
Cicero I-20	100	WEHS	1420
	100	WHFC	1420
	100	WKBI	1420
	100	WJBL	1200
	100	WKBS	1310
	100	WEBQ	1210
	100	WCIS	1310
	100	WKBB	1310
	100	WJBC	1200
La Salle J-19	20000	WJJD	1130
Mooseheart I-19	500	WMBD C	1440
Peoria Heights J-19	500	WTAD	1440
Quincy K-18	500	KFLV	1410
Rockford I-19	100	WHBF	1210
Rock Island I-18	100	WCBS	1210
Springfield K-19	100	WTAX	1210
	100	WDZ	1070
Tuscola K-20	250	WILL	890
Urbana J-20	5000	WCBD	1080
Zion I-20			
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
	1000	WTKS	1360
Gary I-20	100	WVAE	1200
Hammond I-20	1000	WFBM C	1230
Indianapolis J-21	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	KFGO	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	KWLC	1270
Des Moines I-17	5000	WHO R	1000
Iowa City I-18	500	WSUI	880
Marshalltown I-17	100	KFJB	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	WLBZ	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	WFIW 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	WSMN B	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	WCSH 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	WFBZ R	1270
Cumberland J-25	100	WTBO	1420
MASSACHUSETTS			
Boston G-28	500	WAAB C	1410
	25000	WBZ B	990
	1000	WEEI R	590
	1000	WHDH	830
	100	WLOB	1500
	1000	WNAC C	1230
	250	WSAR	1450
Fall River H-28	100	WLEY	1370
Lexington G-28	500	WBSO	920
Needham G-28	100	WNBH	1310
New Bedford H-28	1000	WBZA B	990
Springfield H-27	100	WORC C	1200
Worcester G-28	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	WMBZ	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	WMPG		1500
Ludington H-20	50	WKBZ		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	WTSL		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	KGIZ		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	WOQ		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	KGIR	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	KGFV		1310
Lincoln J-15	5000	KFAB	C	770
	100	KFOR		1210
	500	WCAJ		590
	1000	WJAG		1060
Norfolk I-15	500	KGNF		660
North Platte J-13	500	WAAW		660
Omaha J-15	1000	WAW	R	590
	100	KGKY		1500
Scottsbluff I-11	500	KGBZ		930
York J-15	100			

NEVADA

Las Vegas L-5	100	KGIX		1420
Reno I-3	500	KOH	C	1380

NEW HAMPSHIRE

Laconia G-28	100	WKAV		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	WAAT		940
	500	WHOM		1450
Newark I-27	1000	WAAM		1280
	250	WGCP		1250
	250	WNJ		1450
	5000	WOR		710
Paterson I-27	1000	WODA		1280
Red Bank I-27	100	WJBI		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	WMOB		1310
Binghamton H-26	100	WNBF		1500
Brooklyn I-27	500	WBBC		1400
	1000	WBRR		1300
	500	WCGU		1400
	500	WFOJ		1400
	500	WLTH		1400
	100	WMBQ		1500
	100	WMIL		1500
Buffalo H-24	1000	WBEN	R	900
	100	WEBR		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	WLBX		1500
New York City I-27	50000	WABC	C	860
	250	WBXX		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
Columbus J-22	50000	WTAM	R	1070
	500	WAIU		640
	750	WEAO	C	1430
	500	WEAO		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	XXL		1420

PENNSYLVANIA

Allentown I-26	250	WCBA		1440
	250	WSAN		1440
Altoona I-25	100	WFBC		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	WKJC		1200
	100	WJBU		1210
Lewisburg I-26	500	WLBW	C	1260
Oil City I-24	10000	WCAU	C	1170
Philadelphia I-26	100	WDAS		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		1200
Pittsburgh J-24	50000	KDKA	B	980
	500	KQV		1380
	1000	WCAE	R	1220
	1000	WJAS	C	1220
	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	WXXX		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		Kcys.
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

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	C	600
Nashville M-21	5000	WLAC	C	1470
	5000	WSM	N	650
Springfield M-20	100	WSIX		1210

TEXAS

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	C	1040
	50000	WFAA	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 Q-15	15	KFPM		1310
Harlingen T-14	500	KRGV		1260
Houston R-16	1000	KPRC	N	920
	100	KTLC		1310
	500	KTRH	C	1120
	100	KXYZ		1420
Lubbock Q-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	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

Ogden I-7	500	KLO		1400
Salt Lake City I-7	1000	KDYL	C	1290
	5000	KSL	N	1130

VERMONT

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		Kcys.
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	WGFH		1310
Norfolk L-26	500	WFOR		780
	500	WTAR	C	780
Petersburg L-26	100	WLBG		1200
Richmond K-26	100	WBLB		1210
	100	WMBG		1210
	5000	WRVA	C	1110
Roanoke L-24	250	WDBJ	C	930
	250	WRBX		1410

WASHINGTON

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	N	970
	1000	KOL	N	1270
	1000	KOMO	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	N	1470
	1000	KHQ	N	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

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	WVVA	C	1160

WISCONSIN

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	WA		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
Poynette H-19	100	WIBU		1210
Racine I-20	100	WRJN		1370
Sheboygan H-20	500	WHBL		1410
Stevens Point G-19	2000	WLBL		900
Superior F-17	1000	WBEC	N	1290

WYOMING

Casper H-10	500	KDFN		1440
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CANADA

ALBERTA		Watts		Kcys.
Calgary B-7	500	CFAC		690
	10000	CFCN		985
	500	CJCY		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
Victoria C-3	500	CFCT	630

MANITOBA

Brandon D-14	500	CKX	930
Winnipeg D-15	5000	CKY	780
	5000	CNRW	780

NEW BRUNSWICK

Fredericton D-29	500	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	VGX	690
Sydney C-32	50	CJCB	880
Wolfville D-31	50	CKIC	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
	50	CFRC	930
Kingston G-25	5000	CJGC	595
London H-23	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	CFCL	580
	10000	CFRB C	690
	500	CKCL	580
	10000	CKGW N	840
	500	CKNC	960
	500	CNRT	1120
	4000	CNRX	690
	5000	CPRY	840
	100	CKCR	645
Waterloo G-23	5000	CKWO C	540
Windsor H-22	15	10-BP	1200

PRINCE EDWARD ISLAND

Charlottetown C-31	500	CFCY	580
	100	CHCK	960
Summerside C-31	500	CHGS	1120

Waterloo G-23	100	CKCR	645
Windsor H-22	5000	CKWO C	540
Wingham G-23	15	10-BP	1200

QUEBEC

Montreal E-26	500	CFCF N	1030
	5000	CHYC	730
	5000	CKAC C	730
	5000	CNRM	730

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
	500	CNRS	910
Yorkton B-13	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	TI4NRH	980
San Jose FF-23	50	TICR	911

GUATAMALA

Guatamala 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

Salttillo, Coah. U-12	25	XEL	1000
Torreon U-11	125	XETB	1380
	100	XETG	1000
Villa Acuna R-12	75000	XER	735

D. F.

Coyoacan Y-13	100	NETZ	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
Toluca. Y-12	50	XEC	1000

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	CKGW 840	CMCO 660	CNRS 910
Calgary, Alta.	Toronto, Ont.	Havana, Cuba	Saskatoon, Sask.
CFCO 1210	CKIC 1010	CMCQ 1140	CNRT 1120
Chatham, Ont.	Wolfville, N. S.	Havana, Cuba	Toronto, Ont.
CFCT 630	CKLC 840	CMCR 1345	CNEV 1030
Victoria, B. C.	Red Deer, Alta.	Havana, Cuba	Vancouver, B. C.
CFCY 580	CKMC 1210	CMCU 1270	CNEW 780
Ch'lottet'n, P.E.I.	Cobalt, Int.	Havana, Cuba	Winnipeg, Man.
CFJC 1120	CKMO 730	CMCW 1270	CNEX 690
Kamloops, B. C.	Vancouver, B. C.	Havana, Cuba	Toronto, Ont.
CFLC 915	CKNC 960	CMCY 1345	CPBY 840
Prescott, Ont.	Toronto, Ont.	Havana, Cuba	Toronto, Ont.
CFNB 1210	CKOC 635	CMDB 1395	HHK 920
Fredericton, N.B.	Hamilton, Ont.	Havana, Cuba	Port au Prince, H.
CFQC 910	KCOV 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	Tequicgalpa
CFRC 930	CKPR 890	CMGC 820	KABC 1420
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	KBTM 1200
Sum'rside, P.E.I.	Windsor, Ont.	Matanzas, Cuba	Paragould, Ark.
CHLS 730	CKWX 730	CMGI 1150	KCCM 1420
Vancouver, B. C.	Vancouver, B. C.	Colon, Cuba	Texarkana, Ark.
CHMA 580	CKX 930	CMHC 790	KCRC 1370
Edmonton, Alta.	Brandon, Man.	Tuinucu, Cuba	Enid, Okla.
CHML 880	CKY 780	CMHD 950	KCRJ 1310
Hamilton, Ont.	Winnipeg, Man	Caibarien, Cuba	Jerome, Ariz.
CHNS 815	CMAB 1249	CMHI 1030	KDB 1500
Halifax, N. S.	Pinar del Rio, Cu	Santa Clara, Cu	S. Barbara, Cal.
CHRC 645	CMBC 965	CMHJ 1125	KDFN 1440
Quebec, Que.	Havana, Cuba	Cienfuegos, Cuba	Casper, Wyo.
CHWC 960	CMBD 965	CMJC 1382	KDKA 980
Regina, Sask.	Havana, Cuba	Camaguey, Cuba	Pittsburgh, Pa.
CHWK 665	CMBG 1070	CMJE 856	KDLR 1210
Chilliwack, B. C.	Havana, Cuba	Camaguey, Cuba	Devils Lake, N.D.
CHYC 730	CMBI 1444	CMJF 930	KDYL 1290
Montreal, Que.	Havana, Cuba	Camaguey, Cuba	Salt Lake City
CJBR 960	CMBL 1444	CMJG 1050	KECA 1430
Regina, Sask.	Havana, Cuba	Camaguey, Cuba	Los Angeles, Cal.
CJCA 745	CMBN 1444	CMJH 1017	KELW 780
Edmonton, Alta.	Havana, Cuba	Ciego de Avila, C.	Burbank, Cal.
CJCB 880	CMBQ 1500	CMJI 1260	KERN 1200
Sydney, N. S.	Havana, Cuba	Ciego de Avila, C.	Bakersfield, Cal.
CJ CJ 690	CMBR 1500	CMJL 960	KEX 1180
Calgary, Alta.	Havana, Cuba	Camaguey, Cuba	Portland, Ore.
CJGC 595	CMBS 790	CMK 730	KFAB 770
London, Ont.	Havana, Cuba	Havana, Cuba	Lincoln, Nebr.
CJGX 630	CMBT 790	CMKc 1034	KFAC 1300
Yorkton, Sask.	Havana, Cuba	Santiago, Cuba	Los Angeles, Cal.
CJOC 1120	CMBW 1140	CMKJ 1300	KFBB 1280
Lethbridge, Alta.	Havana, Cuba	Guantanamo, C.	Great Fls., Mont.
CJOR 1210	CMBY 1235	CMQ 630	KFBI 1050
Vancouver, B. C.	Havana, Cuba	Havana, Cuba	Milford, Kans.
CJRM 665	CMBZ 1010	CMW 588	KFBK 1310
Moose Jaw, Sask.	Havana, Cuba	Havana, Cuba	Sacramento, Cal.
CJRW 665	CMC 840	CMX 890	KFBL 1370
Fleming, Sask.	Havana, Cuba	Havana, Cuba	Everett, Wash.
CKAC 730	CMCA 1235	CNRA 630	KFDM 560
Montreal, Que.	Havana, Cuba	Moncton, N. B.	Beaumont, Tex.
CKCD 730	CMCB 1070	CNRD 840	KFDY 550
Vancouver, B. C.	Havana, Cuba	Red Deer, Alta.	Brookings, S. D.
CKCI 645	CMCD 925		
Quebec, Que.	Havana, Cuba		

KFEL 920
 Denver, Colo.
 KFQ 680
 St. Joseph, Mo.
 KFQG 1310
 Boone, Iowa
 KFHF 1390
 Wichita, Kansas
 KFI 640
 Los Angeles, Cal.
 KFIO 1120
 Spokane, Wash.
 KFIZ 1420
 Fond du Lac, Wis.
 KFJB 1200
 Marshalltown, Ia.
 KFJF 1480
 Oklahoma City
 KFJJ 1210
 Klamath Falls Ore
 KFJM 1370
 Grd. Forks, N. D.
 KFJR 1300
 Portland, Ore.
 KFJZ 1370
 Ft. Worth, Tex.
 KFKA 880
 Greeley, Colo.
 KFKU 1220
 Lawrence, Kans.
 KFEX 1020
 Chicago, Ill.
 KFV 1410
 Rockford, Ill.
 KFVL 1370
 Galveston, Tex.
 KFVX 1250
 N'rhfield, Minn.
 KFNF 890
 Shenandoah, Ia.
 KFOR 1210
 Lincoln, Nebr.
 KFOS 1250
 Long Beach, Cal.
 KFPL 1310
 Dublin, Texas
 KFPM 1310
 Greenville, Texas
 KFVW 1340
 Ft. Smith, Ark.
 KFFY 1340
 Spokane, Wash.
 KFQD 1230
 Anchorage, Alas.
 KFRC 610
 San F'nclseo, Cal.
 KFPU 630
 Columbia, Mo.
 KFSD 600
 San Diego, Cal.
 KFSG 1120
 Los Angeles, Cal.
 KFUL 1290
 Galveston, Texas
 KFUO 550
 St. Louis, Mo.
 KFVD 1000
 Los Angeles, Cal.
 KFVS 1210
 Cape Gir'rd'u, Mo
 KFVB 950
 Hollywood, Cal.
 KFVF 1200
 St. Louis, Mo.
 KFVI 930
 San F'nclseo, Cal.

KFXD 1200
 Nampa, Idaho
 KFXF 920
 Denver, Colo.
 KFXJ 1310
 Grand Junc., Col.
 KFXM 1210
 San Ber'd no, Cal.
 KFXR 1310
 Oklahoma City
 KFXV 1420
 Flagstaff, Ariz.
 KFYO 1310
 Lubbock, Texas
 KFYY 550
 Bismarck, N. D
 KGA 1470
 Spokane, Wash.
 KGAR 1370
 Tucson, Arizona
 KGB 1330
 San Diego, Cal.
 KGBU 900
 Ketchikan, Al'ka
 KGBX 1310
 St. Joseph, Mo.
 KGBZ 930
 York, Nebr.
 KGCA 1270
 Decorah, Iowa
 KGCR 1210
 Watertown, S. D.
 KGCU 1240
 Mandan, N. D.
 KGCV 1310
 Wolf P't, Mont.
 KGDA 1370
 Mitchell, S. D.
 KGDE 1200
 Fergus Falls, Minn
 KGDM 100
 Stockton, Cal.
 KGDY 1200
 Huron, S. D.
 KGEK 1200
 Yuma, Colo.
 KGER 1360
 Long Beach, Cal.
 KGEW 1200
 Ft. Morgan, Colo.
 KGEZ 1310
 Kallispell, Mont.
 KGFF 1420
 Shawnee, Okla.
 KGFG 1370
 Oklahoma City
 KGFI 1500
 Corp's Ch'sti, Tex
 KGfJ 1200
 Los Angeles, Cal.
 KGfK 1500
 Moorhead, Minn.
 KGfL 1370
 Raton, N. M.
 KGfV 1310
 Kearney, Nebr.
 KGfX 630
 Pierre, S. D.
 KGfC 1420
 San F'nclseo, Cal.
 KGfF 1010
 Coffeyville, Kans.
 KGfM 1230
 Albuq'rque, N.M.
 KGfH 1320
 Pueblo, Colo.

KGHI 1200
 Little Rock, Ark.
 KGHL 950
 Billings, Mont.
 KGIR 1360
 Butte, Mont.
 KGIV 1420
 Trinidad, Colo.
 KGIX 1420
 Las Vegas, Nev.
 KGIZ 1500
 Grant City, Mo
 KGKB 1500
 Tyler, Texas
 KGKL 1370
 San Angelo, Tex.
 KGKO 570
 Wichita Fils., Tex.
 KGKX 1420
 Sand Point, Idaho
 KGKY 1500
 Scottsbluff, Nebr.
 KGMB 1320
 Honolulu, T. H.
 KGMP 1210
 Elk City, Okla.
 KGNF 1430
 No. Platte, Nebr.
 KGNO 1210
 Dodge City, Kas.
 KGO 790
 San F'nclseo, Cal.
 KGOS 1410
 Amarillo, Texas
 KGU 750
 Honolulu, Hawaii
 KGVO 1420
 Missoula, Mont.
 KGVW 620
 Portland, Ore.
 KGW 1210
 Olympia, Wash.
 KH 900
 Los Angeles, Cal.
 KHQ 590
 Spokane, Wash.
 KICA 1370
 Clovis, N. M.
 KICK 1420
 Red Oak, Iowa
 KID 1320
 Idaho Falls, Ida.
 KIDO 1350
 Boise, Idaho
 KIT 1310
 Yakima, Wash.
 KJBS 1070
 San F'nclseo, Cal.
 KJR 970
 Seattle, Wash.
 KLCN 1290
 Blytheville, Ark.
 KLO 1400
 Ogden, Utah
 KLPM 1240
 Minot, N. Dak.
 KLRA 1390
 Little Rock, Ark.
 KLS 1440
 Oakland, Cal.
 KIX 880
 Oakland, Cal.
 KLZ 560
 Denver, Colo.
 KMA 930
 Shenandoah, Ia.

KMAC 1370
 San Antonio, Tex.
 KMBC 950
 Kan. City Mo.
 KMED 1310
 Medford, Ore.
 KMJ 1210
 Fresno, Cal.
 KMLB 1200
 Monroe, La.
 KMMJ 740
 Clay Ctr., Nebr.
 KMO 1330
 Tacoma, Wash.
 KMOX 1090
 St. Louis, Mo.
 KMPC 710
 Beverly Hills, Cal
 KMTR 570
 Hollywood, Cal.
 KNOW 1500
 Austin, Tex.
 KNX 1050
 Hollywood, Cal.
 KOA 830
 Denver, Colo.
 KOAC 550
 Corvallis, Ore.
 KOB 1180
 State Col., N. M.
 KOCW 1400
 Chickasha, Okla.
 KOH 1380
 Reno, Nevada
 KOIL 1260
 Council Bluffs, Ia.
 KOIN 940
 Portland, Ore.
 KOL 1270
 Seattle, Wash.
 KOMO 920
 Seattle, Wash.
 KONO 1370
 San Antonio, Tex.
 KOOS 1370
 Marshfield, Ore.
 KORE 1420
 Eugene, Ore.
 KOY 1390
 Phoenix, Arizona
 KPBC 650
 Seattle, Wash.
 KPJM 1500
 Prescott, Ariz.
 KPO 680
 San F'nclseo, Cal.
 KPOF 880
 Denver, Colo.
 KPCC 1210
 Pasadena, Cal.
 KPQ 1500
 Wenatchee, Wash
 KPRC 920
 Houston, Texas
 KQV 1380
 Pittsburgh, Pa.
 KQW 1010
 San Jose, Cal.
 KRE 1370
 Berkeley, Cal.
 KREG 1500
 Santa Ana, Cal.
 KRGV 1260
 Harlingen, Texas
 KRKD 1120
 Los Angeles, Cal.

KRLD 1040 Dallas, Texas	KWKC 1370 Kansas City, Mo.	WAPI 1140 Birmingham, Ala.	WCAP 1280 Asbury Pk., N. J.
KRMD 1310 Shreveport, La.	KWKH 850 Shreveport, La.	WASH 1270 Gr. Rapids, Mich.	WCAT 1200 Rapid City, S. D.
KROW 930 Oakland, Cal.	KWLC 1270 Decorah, Iowa	WAWZ 1350 Zarephath, N. J.	WCAU 1170 Philadelphia, Pa.
KRSC 1120 Seattle, Wash.	KWSC 1220 Pullman, Wash.	WBAA 1400 Lafayette, Ind.	WCAX 1200 Burlington, Vt.
KSAC 580 Manh'tt'n, Kans.	KWWG 1260 Brownsville, Tex.	WBAK 1430 Harrisburg, Pa.	WCAZ 1070 Carthage, Ill.
KSCJ 1330 Sloux City, Ia.	KXA 760 Seattle, Wash.	WBAL 760-1060 Baltimore, Md.	WCBA 1440 Allentown, Pa.
KSD 550 St. Louis, Mo.	KXL 1420 Portland, Ore.	WBAP 800 Fort Worth, Tex.	WCBD 1080 Zion, Ill.
KSEI 900 Pocatello, Idaho	KXO 1500 El Centro, Cal.	WBAX 1210 Wilkes-Barre, Pa.	WCBM 1370 Baltimore, Md.
KSL 1130 Salt Lake City	KXRO 1310 Aberdeen, Wash.	WBBC 1400 Brooklyn, N. Y.	WCBS 1210 Springfield, Ill.
KSO 1380 Clarinda, Iowa	KXYZ 1420 Houston, Texas	WBBL 1210 Richmond, Va.	WCCO 810 Minneapolis, Minn.
KSOO 1110 Sloux Falls, S. D.	KYA 1230 San Francisco, Cal.	WBBM 770 Chicago, Ill.	WCDA 1350 New York City
KSTP 1460 St. Paul, Minn.	KYW 1020 Chicago, Ill.	WBBR 1300 Brooklyn, N. Y.	WCFL 970 Chicago, Ill.
KTAB 560 San Francisco, Cal.	KZKA 1110 Manilla, P. I.	WBZ 1200 Ponca City, Okla.	WCGU 1400 Brooklyn, N. Y.
KTAR 620 Phoenix, Ariz.	KZRC 937.5 Cebu, P. I.	WBCM 1410 Bay City, Mich.	WCHI 1490 Chicago, Ill.
KTAT 1240 Ft. Worth, Tex.	KZRM 618.5 Manila, P. I.	WBEN 900 Buffalo, N. Y.	WCKY 1490 Covington, Ky.
KTBR 1300 Portland, Ore.	NAA 690 Arlington, Va.	WBEO 1310 Marquette, Mich.	WCLO 1200 Janesville, Wis.
KTBS 1450 Shreveport, La.	RUS 664 Salvador	WBHS 1200 Huntsville, Ala.	WCLS 1310 Joliet, Ill.
KTFL 1240 Twin Falls, Ida.	TGW 570 Guatemala	WBG 1440 Greensboro, N. C.	WCMA 1400 Culver, Ind.
KTHS 1040 Hot Spgs., Ark.	TICR 911 San Jose, C. R.	WBMS 1450 Hackensack, N. J.	WCOA 1340 Pensacola, Fla.
KTLC 1310 Houston, Texas	TI4NRH 980 Heredia, C. R.	WBNX 1350 New York City	WCCO 880 Meridian, Miss.
KTM 780 Los Angeles, Cal.	VAS 685 Glace Bay, N. S.	WBOQ 860 New York City	WCOD 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.	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.	VOWR 675 St. John's, N. F.	WBSO 920 Needham, Mass.	WCSH 940 Portland, Maine
KUJ 1370 Walla Wall, Wash.	VPN 610 Nassau, B. I.	WBT 1080 Charlotte, N. C.	WDAE 1220 Tampa, Fla.
KUOA 1390 Fayetteville, Ark.	WAAB 1410 Boston, Mass.	WBTM 1370 Danville, Va.	WDAF 610 Kansas City, Mo.
KUSD 890 Vermillion, S. D.	WAAF 920 Chicago, Ill.	WBZ 990 Boston, Mass.	WDAG 1410 Amarillo, Texas
KVI 570 Tacoma, Wash.	WAAM 1250 Newark, N. J.	WBZA 990 Springfield, Mass.	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	WAAW 660 Omaha, Nebr.	WCAD 1220 Canton, N. Y.	WDAY 940 Fargo, N. D.
KVOO 1140 Tulsa, Okla.	WABC 860 New York City	WCAE 1220 Pittsburgh, Pa.	WDBJ 930 Roanoke, Va.
KVOR 1270 Col. Sp'gs, Colo.	WABI 1200 Bangor, Maine	WCAH 1430 Columbus, Ohio	WDBO 1120 Orlando, Fla.
KVOS 1200 Bellingh'm, Wash.	WABZ 1200 New Orleans, La.	WCAJ 590 Lincoln, Nebr.	WDEL 1120 Wilmington, Del.
KWCR 1420 Cedar Rapids, Ia.	WACO 1240 Waco, Texas	WCAL 1250 Northfield, Minn.	WDEI 1420 Waterbury, Vt.
KWEA 1210 Shreveport, La.	WADC 1320 Akron, Ohio	WCAM 1280 Camden, N. J.	WDGY 1180 Minneapolis, Minn.
KWG 1200 Stockton, Cal.	WAGM 1420 Presque Isle, Me.	WCAO 600 Baltimore, Md.	WDOD 1280 Chattan'ga, Tenn.
KWJJ 1060 Portland, Ore.	WAIU 640 Columbus, Ohio		WDRC 1330 Hartford, Conn.
KWK 1350 St. Louis, Mo.	WALR 1210 Zanesville, Ohio		

WDSU 1250 New Orleans, La.	WFOX 1400 Brooklyn, N. Y.	WHN 1010 New York City	WJJD 1130 Mooseheart, Ill.
WDZ 1070 Tuscola, Ill.	WGAL 1310 Lancaster, Pa.	WHO 1000 Des Moines, Ia.	WJKS 1360 Gary, Ind.
WEAF 660 New York City	WGAR 1450 Cleveland, Ohio	WHOM 1450 Jersey City, N. J.	WJMS 1420 Ironwood, Mich.
WEAI 1270 Ithaca, N. Y.	WGBB 1210 Freeport, N. Y.	WHP 1430 Harrisburg, Pa.	WJR 750 Detroit, Mich.
WEAN 780 Providence, R. I.	WGBF 630 Evansville, Ind.	WIAS 1310 Ottumwa, Iowa	WJSV 1460 Alexandria, Va.
WEAO 570 Columbus, Ohio	WGHI 880 Scranton, Pa.	WIBA 1280 Madison, Wis.	WJTL 1370 Atlanta, Ga.
WEBC 1290 Superior, Wis.	WGCM 590 Gulfport, Miss.	WIBG 930 Elkins Park, Pa.	WJW 1210 Mansfield, Ohio
WEBQ 1210 Harrisburg, Ill.	WGCP 1250 Newark, N. J.	WIBM 1370 Jackson, Mich.	WJZ 760 New York City
WEBR 1310 Buffalo, N. Y.	WGES 1360 Chicago, Ill.	WIBO 560 Chicago, Ill.	WKAQ 890 San Juan, P. R.
WEDC 1210 Chicago, Ill.	WGH 1310 Newsp't News, Va.	WIBU 1210 Poynette, Wis.	WKAR 1040 E. Lansing, Mich.
WEEL 590 Boston, Mass.	WGL 1370 Ft. Wayne, Ind.	WIBW 580 Topeka, Kansas	WKAV 1310 Laconia, N. H.
WEEU 830 Reading, Pa.	WGN 720 Chicago, Ill.	WIBX 1200 Utica, N. Y.	WKBB 1310 Jollet, Ill.
WEHC 1350 Emory, Va.	WGR 550 Buffalo, N. Y.	WICC 600 Bridgeport, Conn	WKBC 1310 Birmingham, Ala.
WEHS 1420 Cicero, Ill.	WGST 890 Atlanta, Ga.	WIL 1200 St. Louis, Mo.	WKBF 1400 Indianapolis, Ind.
WELL 1420 Battle C'k, Mich.	WGY 790 Scheneec'dy, N. Y.	WILL 890 Urbana, Ill.	WKBB 1380 La Crosse, Wis.
WENC 1420 Americus, Ga.	WHA 940 Madison, Wis.	WILM 1420 Wilmington, Del.	WKBI 1420 Cicero, Ill.
WENR 870 Chicago, Ill.	WEAD 1120 Milwaukee, Wis.	WINS 1180 New York City	WKBN 570 Youngstown, O.
WERE 1420 Erie, Pa.	WEAM 1150 Rochester, N. Y.	WIOD 1300 Miami, Fla.	WKBS 1310 Galesburg, Ill.
WESG 1370 Glens Falls, N. Y.	WHAS 820 Louisville, Ky.	WIP 610 Philadelphia, Pa.	WKBY 1500 Connerville, Ind.
WEVD 1300 New York City	WHAT 1310 Philadelphia, Pa.	WIS 1010 Columbia, S. C.	WKBW 1480 Buffalo, N. Y.
WEW 760 St. Louis, Mo.	WHAZ 1300 Troy, N. Y.	WISN 1120 Milwaukee, Wis.	WKDZ 1500 Ludington, Mich.
WEXL 1310 Royal Oak, Mich.	WHB 860 Kansas City, Mo.	WJAC 1310 Johnstown, Pa.	WKJC 1200 Lancaster, Pa.
WFAA 800 Dallas, Texas	WHBC 1200 Canton, Ohio	WJAG 1060 Norfolk, Nebr.	WKRC 550 Cincinnati, Ohio
WFAB 1300 New York City	WHBD 1370 Mt. Orab, Ohio	WJAK 1310 Elkhart, Ind.	WKY 900 Oklahoma City
WFAM 1200 So. Bend, Ind.	WHBF 1210 Rock Island, Ill.	WJAR 890 Providence, R. I.	WKZO 590 Kalamazoo, Mich.
WFAN 610 Philadelphia, Pa.	WHBL 1410 Sheboygan, Wis.	WJAS 1290 Pittsburgh, Pa.	WLAC 1470 Nashville, Tenn.
WFBC 1200 Knoxville, Tenn	WHBQ 1370 Memphis, Tenn.	WJAX 900 Jacksonville, Fla.	WLAP 1200 Louisville, Ky.
WFBE 1200 Cincinnati, Ohio	WHBU 1210 Anderson, Ind.	WJAY 610 Cleveland, Ohio	WLB 1250 St. Paul, Minn.
WFBG 1310 Altoona, Pa.	WHBY 1200 Green Bay, Wis.	WJBC 1200 La Salle, Ill.	WLBC 1310 Muncie, Ind.
WFBL 1360 Syracuse, N. Y.	WHDF 1370 Calumet, Mich.	WJBI 1210 Red Bank, N. J.	WLBK 1420 Kansas City, Mo.
WFBM 1230 Indianapolis, Ind.	WHDH 830 Boston, Mass.	WJBK 1370 Detroit, Mich.	WLBG 1200 Etrick, Va.
WFBR 1270 Baltimore, Md.	WHDL 1420 Tupper Lake, N. Y.	WJBL 1200 Decatur, Ill.	WLBL 900 Stevens Pt., Wis.
WFDF 1310 Flint, Mich.	WHEB 740 Portsmouth, N.H.	WJBO 1420 New Orleans, La.	WLBW 1260 Oil City, Pa.
WFDV 1500 Rome, Ga.	WHEC 1430 Rochester, N. Y.	WJBU 1210 Lewisburg, Pa.	WLBX 1500 L. I. City, N. Y.
WFDW 1420 Anniston, Ala.	WHEF 1500 Kosciusko, Miss.	WJBW 1200 New Orleans, La.	WLBZ 620 Bangor, Maine
WFEE 1430 Manchester, N.H.	WHFC 1420 Cicero, Ill.	WJBY 1210 Gadsden, Ala.	WLCI 1210 Ithaca, N. Y.
WFEI 560 Philadelphia, Pa.	WHIS 1410 Bluefield, W. Va.	WJDX 1270 Jackson, Miss.	WLEY 1370 Lexington, Mass.
WFIW 940 Hopkinsville, Ky.	WHK 1390 Cleveland, Ohio		
WFLA 620 Clearwater, Fla.			

WLIT 560
Philadelphia, Pa.
WLOE 1500
Boston, Mass.
WLS 870
Chicago, Ill.
WLTH 1400
Brooklyn, N. Y.
WLVA 1370
Lynchburg, Va.
WLW 700
Cincinnati, Ohio
WLWL 1100
New York City
WMAC 570
Syracuse, N. Y.
WMAL 630
Washington, D.C.
WMAQ 670
Chicago, Ill.
WMAZ 1180
Macon, Ga.
WMBA 1500
Newport, R. I.
WMBC 1420
Detroit, Mich.
WMBD 1440
Peoria Hgts., Ill.
WMBG 1210
Richmond, Va.
WMBH 1420
Joplin, Mo.
WMBI 1080
Chicago, Ill.
WMBO 1310
Auburn, N. Y.
WMBQ 1500
Brooklyn, N. Y.
WMBR 1370
Tampa, Fla.
WMC 780
Memphis, Tenn.
WMCA 570
New York City
WMIL 1500
Brooklyn, N. Y.
WMMN 890
Fairmont, W. Va.
WMPD 1500
Lapeer, Mich.
WMRJ 1210
Jamaica, N. Y.
WMSG 1350
New York City
WMT 600
Waterloo, Iowa
WNAC 1230
Boston, Mass.
WNAD 1010
Norman, Okla.
WNAX 570
Yankton, S. D.
WNB 1500
Bingh'm't'n, N.Y.
WNBH 1310
New B'd'f'd, Mass.
WNBO 1200
Washington, Pa.
WNB 1430
Memphis, Tenn.
WNBW 1200
Carbondale, Pa.
WNBX 1200
Springfield, Vt.
WNBZ 1290
Sar'n'e L'ke, N.Y.
WNJ 1450
Newark, N. J.

WNOX 560
Knoxville, Tenn.
WNYC 810
New York City
WNOI 1190
San Antonio, Tex.
WNOX 1280
Trenton, N. J.
WOB 580
Charle's't'n, W.Va.
WOC 1000
Davenport, Iowa
WOCL 1210
Jamestown, N. Y.
WODA 1250
Paterson, N. J.
WODX 1410
Mobile, Ala.
WOI 640
Ames, Iowa
WOKO 1430
Albany, N. Y.
WOL 1310
Washington, D.C.
WOMT 1210
Manitowoc, Wis.
WOOD 1270
Gr. Rapids, Mich.
WOPI 1500
Bristol, Tenn.
WOQ 1300
Kansas City, Mo.
WOR 710
Newark, N. J.
WORC 1200
Worcester, Mass.
WORK 1000
York, Pa.
WOS 630
Jeff's'n City, Mo.
WOV 1130
New York City
WOW 590
Omaha, Nebr.
WOWO 1160
Ft. Wayne, Ind.
WPAD 1420
Paducah, Ky.
WPAP 1010
New York City
WPAW 1210
Providence, R. I.
WPCC 560
Chicago, Ill.
WPCH 570
New York City
WPEN 1500
Philadelphia, Pa.
WPF 1370
Hattiesb'g, Miss.
WPG 1100
Atl'ntic City, N.J.
WPRO 780
Norfolk, Va.
WPRO 1210
Providence, R. I.
WPSC 1230
State College, Pa.
WPTF 680
Raleigh, N. C.
WQAM 560
Miami, Fla.
WQAN 880
Scranton, Pa.
WQAO 1010
New York City
WQBC 1360
Vicksburg, Miss.
WQDM 1370
St. Albans, Vt.

WQDX 1210
Thomasville, Ga.
WRAK 1370
Williamsport, Pa.
WRAM 1370
Wilmington, N.C.
WRAW 1310
Reading, Pa.
WRAX 1020
Philadelphia, Pa.
WRBL 1200
Columbus, Ga.
WRBQ 1210
Greenville, Miss.
WRBX 1410
Roanoke, Va.
WRC 950
Washington, D.C.
WRDO 1370
Augusta, Maine
WRDW 1500
Augusta, Ga.
WREC 600
Memphis, Tenn.
WREN 1220
Lawrence, Kans.
WRHM 1250
Minneapolis, Minn.
WRJN 1370
Racine, Wis.
WRNY 1010
New York City
WROL 1310
Knoxville, Tenn.
WRR 1280
Dallas, Texas
WRUF 830
Gainesville, Fla.
WRVA 1110
Richmond, Va.
WSAI 1330
Cincinnati, Ohio
WSAJ 1310
Grove City, Pa.
WSAN 1440
Allentown, Pa.
WSAR 1450
Fall River, Mass.
WSAZ 580
Hunt'gton, W.Va.
WSB 740
Atlanta, Ga.
WSBC 1210
Chicago, Ill.
WSBT 1230
South Bend, Ind
WSEN 1210
Columbus, Ohio
WSFA 1410
Montgomery, Ala.
WSIX 1210
Springfield, Tenn.
WSJS 1310
Winst.-Sal., N. C.
WSM 650
Nashville, Tenn.
WSMB 1320
New Orleans, La.
WSMK 1380
Dayton, Ohio
WSOC 1210
Gastonia, N. C.
WSFA 1420
Spartanburg, S.C.
WSPD 1340
Toledo, Ohio
WSUI 880
Iowa City, Iowa

WSUN 620
St. Petersb'g, Fla.
WSVS 1370
Buffalo, N. Y.
WSYB 1500
Rutland, Vt.
WSYR 570
Syracuse, N. Y.
WTAD 1440
Quincy, Ill.
WTAG 580
Worcester, Mass.
WTAM 1070
Cleveland, Ohio
WTAQ 1330
Eau Claire, Wis.
WTAR 780
Norfolk, Va.
WTAW 1120
College Sta., Tex.
WTAX 1210
Springfield, Ill.
WTBO 1420
Cumberland, Md.
WTEL 1310
Philadelphia, Pa.
WTFI 1450
Athens, Ga.
WTIC 660-1060
Hartford, Conn.
WTJS 1310
Jackson, Tenn.
WTMJ 620
Milwaukee, Wis.
WTOC 1260
Savannah, Ga.
WTSL 1310
Laurel, Miss.
WWAE 1200
Hammond, Ind.
WWJ 920
Detroit, Mich.
WWL 850
New Orleans, La.
WWNC 570
Asheville, N. C.
WWRL 1500
Woodside, N. Y.
WWSW 1500
Pittsburgh, Pa.
WWVA 1160
Wheeling, W. Va.
WXYZ 1240
Detroit, Mich.
XEA 1000
Guad'l'jara, Mex.
XEB 1030
Mexico City
XEC 1000
Toluca, Mexico
XED 965
Reynosa, Mexico
XEE 1000
Oaxaco, Mexico
XEFA 1250
Mexico City
XEFB 1315
Monterrey, Mex.
XEFC 1050
Merida, Mex.
XEFD 845
Tijuana, Mex.
XEFE 1000
Laredo, Mexico
XEFI 1000
Chihuahua, Mex.
XEFS 1000
Queretaro, Mex.
XEG 1070
Mexico, Mex.

XEH 1132	XEQ 750	XETQ 1230	XFC 810
Monterrey, Mex.	Juarez, Mexico	Mexico, Mex.	Aguascalntes, M.
XEI 1000	XER 735	XETR 610	XFF 875
Morelia, Mexico	Villa Acuna, Mex.	Mexico City	Chihuahua, Mex.
XEJ 1000	XES 890	XETZ 1500	XFG 683.3
Juarez, Mexico	Tampico, Mexico	Coyoacan, Mex.	Mexico City
XEK 990	XET 690	XEU 1000	XFI 818
Mexico City	Monterrey, Mex.	Veracruz, Mex.	Mexico City
XEL 1000	XETA 1140	XEV 1000	XFX 867
Saltillo, Mexico	Mexico City	Puebla, Mexico	Mexico City
XEM 1300	XETB 1380	XEW 910	10-AB 1200
Tampico, Mexico	Torreon, Mex.	Mexico City	Moose Jaw, Sask.
XEN 711	XETC 1000	XEX 1210	10-AT 1155
Mexico City	Jalapa, Mex.	Mexico City	Trall, B. C.
XEO 940	XETF 630	XEY 1000	10-BP 1200
Mexico City	Veracruz, Mex.	Merida, Mexico	Wingham, Ont.
XEP 1400	XETG 1000	XEZ 780	10-BQ 1200
Laredo, Mexico	Torreon, Mex.	Mexico City	Brantford, Ont.

INDEX BY LOCATIONS WITH MAP KEY

(Continued from page 59)

Location	Watts	Call	Kcys.	Location	Watts	Call	Kcys.
JALISCO				Cienfuegos W-25	40	CMHJ	1125
Guadalajara, Jal. X-10	101	XEA	1000	Colon W-24	30	CMGI	1150
MICHOACAN				Guantanamo X-28	20	CMKJ	1300
Morelia, Mich. Y-12	101	XEI	1000	Havana W-23	150	CMBG	965
NEUVO LEON					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
OAXACA					30	CMBN	1444
Oaxaca, Oak. AA-14	105	XEE	1000		50	CMBO	1500
PUEBLA					15	CMBR	1500
Puebla Z-13	101	XEV	1000		150	CMBS	790
QUERETARO					150	CMBT	790
Queretaro X-12	40	XEFS	1000		150	CMBW	1140
TAMAULIPAS					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
VERA CRUZ					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	CMCJ	630
YUCATAN					15	CMCN	1395
Merida, Yuc. X-19	105	XEY	1000		250	CMCN	925
WEST INDIES					250	CMCO	660
BAHAMA					1000	CMCQ	1140
Nassau, U-26	500	VPN	610		150	CMCR	1345
CUBA					150	CMCU	1270
Caibarien W-25	250	CMHD	950		150	CMCW	1270
Camaguey W-26	75	CMJC	1382		250	CMCY	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	Matanzas W-24	30	CMGB	1205
					30	CMGC	820
					50	CMGF	987
					150	CMGH	1040
				Pinar del Rio W-22	20	CMAB	1249
				Santa Clara W-25	30	CMHI	1030
				Santiago X-28	150	CMKC	1034
				Tuinucu	250	CMHC	790
				DOMINICAN REPUBLIC			
				Santo Domingo X-31	1000	HIX	630
				HAITI			
				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	PFBI	Amsterdam, Hilversum	Netherlands
160	6400	PH9	Amsterdam	Netherlands
162	.....	TNU	Huizen	Tunisia
167	40000	.....	Carthage	Finland
174	13500	.....	Lahti	France
188	10000	RW14	Irkutsk	Russia
193	23000	G5XX	Daventry	England

1500 METERS

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	Tiflis	Russia
290	36000	RW9	Kiev	Russia

1000 METERS

300	20000	RW3	Leningrad	Russia
300	100000	RW53	Leningrad	Russia
309	2000	.....	Soro	Denmark
310	10000	RW60	Alma Ata	Russia
320	10000	RW4	Kharkov	Russia
320	.....	RV49	Stehelkovo	Russia
334	4000	RW19	Achabad	Russia
338	1200	RA41	Vologda	Russia
343	4000	RV21	Erivan	Russia
343	2000	.....	Samarkand	Russia
354	4000	RW12	Rostov on Don	Russia
364	36000	RW5	Sverdlovsk	Russia
368	10000	RV9	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

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

511	800	LKH	Hamar	Norway
511	4000	RW30	Ducipropetrovsk	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

1515	250	.....	Biarritz	France
1530	200	SCJ	Karlskrona	Sweden
1635	35000	.....	Berlin	Germany
1764	20	OA6U	Arequipa	Peru
2142	500	.....	Surabaya	Netherlands
3030	30000	SBG	Motala	Sweden
3446	2500	.....	Haiphong	French Indo-China
3750	9000	12RO	Rome	Italy
3998	500	PK1AA	Batavia	Netherlands

75 METERS

4262	1500	F8GC	Paris	France
4273	20000	RW54	Kharbarovsk	Russia
4776	.....	ZL2XX	Wellington	New Zealand
5000	.....	XC7E	Shanghai	China
5169	2000	OK1MPI	Prague	Czechoslovakia
5170	1000	1BR	Bandoeng	Netherlands
5515	300	RW38	Moscow	Russia
5552	500	.....	Tananarive	Madagascar
5837	.....	BKD	Barranquilla	Colombia
5879	.....	AIN	Casablanca	Morocco
5965	10000	HVJ	Vatican City	Italy
5996	500	PK2AF	Djakakarta	Netherlands

50 METERS

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
6045	.....	.....	Tandjonk Priok	East Indies
6045	.....	.....	.....	East Indies

Keys.	Power	Call	City	Country	Keys.	Power	Call	City	Country
6050	....	HKD	Barranquilla	Colombia	9772	....	EAM	Madrid	Spain
6050	....	VE9CF	Halifax, N. S.	Canada	9810	....	LSOR	Buenos Aires	Argentina
6057	....	OXO-			9836	1500	.....	Poznan	Poland
		OXZ	Copenhagen	Denmark					
6061	400	YV2BC	Caracas	Venezuela					
6065	30000	SBG	Motala	Sweden					
6070	....	VE9CS	Vancouver, B. C.	Canada					
6072	15000	UOR2	Vienna	Austria					
6080	....	VE9EH	Charlottetown, P. E. I.,	Canada					
6090	....	VE9BJ	St. Johns, N. B.	Canada					
6095	....	VE9GW	Toronto, Ont.	Canada	10000	....	.....	Belgrade	Jugoslavia
6098	15000	ZTJ	Johannesburg	South Africa	10167	500	HS2PJ	Bangkok	Siam
6110	....	VE9CG	Calgary, Alta.	Canada	10382	20000	LSX	Buenos Aires	Argentina
6114	3000	VUB	Bombay	India	10520	1000	VK2FC	Sydney	Australia
6119	12000	F31CD	Saigon	French Indo-China	10527	....	VK2ME	Sydney	Australia
					10710	....	F8MC	Casablanca	Morocco
6124	40000	FL	Paris	France	10710	150	CT1BO	Lisbon	Portugal
6124	....	EAR25	Barcelona	Spain	10990	....	ZLW	Wellington	New Zealand
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	Netherland					
				East Indies					
6667	200	F8KR	Algiers	Algeria	11308	....	FYA	Paris	France
6667	....	IIAX	Rome	Italy	11700	....	YV4BV	Valencia	Venezuela
6726	200	VRY	Georgetown	British Guiana	11705	....	VE9BA	Montreal, Que.	Canada
6875	....	F8MC	Casablanca	Morocco	11712	7.5	HKN	Medellin	Colombia
6877	2000		Rabat	Morocco	11720	....	VE9JR	Winnipeg, Man.	Canada
6976	....	EAR100	Madrid	Spain	11750	....	.....	Chelmsford	England
6995	2000	CT1AA	Lisbon	Portugal	11760	....	SAS	Karlsborg	Sweden
					11780	....	VE9DR	Montreal, Que.	Canada
					11801	....	UOR2	Vienna, Rosen- hugel	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	Netherland East Indies

43 METERS

Keys.	Power	Call	City	Country
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	....	JIAA	Tokyo	Japan
8692	....	HKF	Bogota	Colombia
8820	100	VK3UZ	Melbourne	Australia

33 METERS

Keys.	Power	Call	City	Country
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	Netherland East Indies
9488	....	OXO-		
		OXZ	Copenhagen	Denmark
9500	....	VK3ME	Melbourne	Australia
9500	2500	JSP2	Bankok	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

30 METERS

Keys.	Power	Call	City	Country
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

Keys.	Power	Call	City	Country
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, Rosen- hugel	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	Netherland East Indies

25 METERS

Keys.	Power	Call	City	Country
12010	....	FZR	Saigon	French Indo- China
12830	6000	.....	Rabat	Morocco
13100	....	FZG	Saigon	French Indo- China
14420	....	VPD	Suva	Fiji

20 METERS

Keys.	Power	Call	City	Country
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	Netherland East Indies
1775	40000	PHI	Amsterdam, Huizen	Netherlands

17 METERS

Keys.	Power	Call	City	Country
18860	30	PLE	Bandoeng	Netherland East Indies
24380	....	VE9GW	Toronto, Ont.	Canada
51724	750	RW61	Moscow	Russia
59964	240	PK4PA	Semarang	Netherland East Indies

Their Time On the Air

Your Zone	Where Time is Given as			PST
	EST	CST	MST	
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	Keys.	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 mid-		
	night.			
New York	Buffalo	WBEN	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	Keys.	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	1900
	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	CJGC	London, Ont., from 910.
	CNRL	London, Ont., from 910.
	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	CMGH	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.
1350	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	Tuimueti, Cuba, 100 to 2500.
820	WHAS	Louisville, Ky., 10000 to 25000.
840	CKW	Toronto, Ont., 5000 to 10000.
890	CMGX	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	KPQD	Anchorage, Alaska, 100 to 250.
1240	KTFI	Twin Falls, Idaho, 250 to 500.
1270	CMCU	Havana, Cuba, 250 to 150.
1350	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.

Owners

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.
New		
630	CHCS	Hamilton, Ont.
960	CMJL	Camaguey, Cuba.
1260	CMJI	Ciego de Avila, Cuba.
1300	CMKJ	Guantanamo, Cuba.
1395	CMDB	Havana, Cuba.
Location		
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	KFXV	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.
Deleted		
1230	WBIS	Boston, Mass.

With the Radio Commission

THE 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 WPCH becomes a full time station on the 570 channel and WNYC is moved to 810 kcs., formerly used by WPCH. 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. WPCH 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 WKBK 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 WEAF.

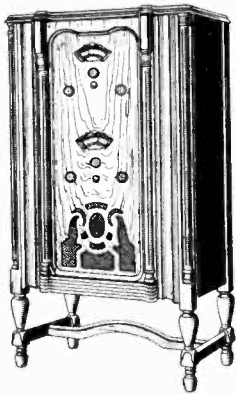
The special authorization of WABC-WBOQ to operate on 800 and 900 kcs. experimentally with 50,000 watts has been extended.

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.)

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2. APPLICATION!



3. REALIZATION!

1
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