

THE MAY 1932 *Pietro Saitta*

# RADIO INDEX

WHAT'S ON THE AIR TONIGHT?



25<sup>c</sup>

“Ann Leaf at the Organ”  
The Problem of Eliminating Hum  
Chain Programs on Daylight-Saving Time  
World Broadcasting Stations by Frequencies

Frontispiece—Ann Leaf, "Little Organ Annie"	
Hum and Its Remedy, by B. Francis Dashiell .....	1
The Story of Ann Leaf, by Susie Sexton .....	3
Those Interesting Radio Puzzles .....	5
When Things Go Awry, Suggestions by Technical Editor .....	7
Reading the Mail With the Editor .....	11
Stories About Your Radio Friends, by "Betty" .....	15
Running Up New DX Records .....	18
Classified Index to Chain Programs .....	31
The Long-Wave Converter .....	31
What's On the Air Tonight? .....	33
A Complete Index by Frequencies .....	42
A Complete Index by States and Cities .....	56
A Complete Index by Call Letters .....	62
World Broadcasting Stations by Frequencies .....	68
DX Tips, Their Time On the Air .....	71
The Month's Changes .....	71

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.

### RADEX Radio Map of North America

The size of twelve pages of RADEX, in two colors, with all the locations of broadcasting stations in every country in North America. Time zones accurately shown. Scale for quickly measuring distance to any station.

The first *real* radio map ever published.

Price, 25 cents, postpaid

### Leatherette Cover

For Your RADEX

A new cover just received. Most beautiful we have ever used. A rich brown trimmed in gold. Large pockets into which the covers of your latest RADEX are easily slipped. Matches the beauty of your set, protects your book and gives you solid backing for making entries.

You'll be delighted with this cover.

Price, 50 cents, postpaid

MAY 1, 1932



# RADIO INDEX

REG. U. S. PATENT OFFICE

FRED CLAYTON BUTLER

Editor and Publisher



## HUM and ITS REMEDY

by B. Francis Dashiell

**H**UM in alternating current radio receivers is the most confusing subject before the service man; its annoyance has tested the wits of many puzzled radio engineers. But hum in an electric radio receiver is a perfectly natural thing—when it breaks loose, while it is unknown in battery-operated sets. Therefore, in the discussion of mysterious and uncontrolled hum, we are concerned only with broadcast sets that operate on the house alternating current.

Alternating current must be understood so that we may know what causes hum. This form of current is vastly different from direct current; it is more useful, and can be transmitted over unlimited distances. That is why we find alternating current out in the rural and suburban regions, while direct current is only in the downtown areas and can be carried but very short distances. But radio has the problem of using alternating current only after it has been converted into direct current.

Alternating current, in most cases, has a frequency of 60 cycles per second, which means there are 120 alternations between positive and negative polarities each second. For instance, the potential builds up from zero volts to 110 volts positive, back to zero volts, or neutral potential, then up again to 110 volts negative, and back down to zero volts. This operation completes one full cycle composed of two alternations—positive and negative. And sixty of these cycles

occur every second. Thus, at the very beginning we have an unquestionable source of electrical and mechanical vibration—hum.

All radio hum has a marked similarity of tone; the pitch and frequency of 60 cycles a second. The characteristic alternating current hum can be reproduced by a piano note or tuning fork having the same vibration period. When the house current is led to the power transformer which steps the standard 110-volt potential up as well as down so as to meet the many requirements of the radio set, we obtain several circuits with wide ranges of voltages. This transformed current from the transformer secondary coils also is alternating in character, and has the usual hum. Even the passage of the house current through the primary coil sets up a magnetic



*Revna Reyes, god-child of the late General Pancho Villa. After a colorful childhood on the plains of Mexico, she is now an NBC star*

vibration or hum in the iron core of the transformer, which may be heard if the ear is placed close to the power device.

The transformed alternating current taken from the secondary coil is rectified, or changed, into a pulsating positive current by cutting off every other, or negative, alternation. This is the function of the rectifier tube, such as the -80 and -81 types. But even this rectified current will hum, for it is a steady current now broken into 60 tiny pulsations surging along each second. These little breaks in the flow cause vibrations which become audible buzzings in the radio set. But by the use of proper choke coils and filter condensers this surging voltage can be smoothed out into a steady flow with no interruptions or pulsations. It then becomes a direct current as perfect as that which flows from a storage or dry-cell B battery. The perfection of the power pack built in the radio set determines whether hum will be present in the speaker.

#### **Introducing the Cathode**

For many years radio tubes could not be made to operate on raw, or non-rectified, alternating current. The loud hum was more than the radio engineers dared offer the public. Someone then inserted the cathode into a tube. It was heated by a white-hot filament that was connected to an alternating current source. Since the cathode was electrically independent of the filament supply it was not under the influence of the raw a. c. source and therefore could not vibrate and caused no hum. Thus the flow of electrons from this negative cathode to the positive plate did not start and stop at the rate of 60 times a second. The emission was smooth and noiseless. But while raw alternating current could be used on the filament of an a. c. electron tube, its plate required a very smooth and perfectly rectified direct current of high voltage. About this hinges most of the question of 60-cycle hum in radio receivers.

So, then, with the advent of carefully filtered power packs and B eliminators, efficient rectifier tubes, and cathode heaters in a. c. tubes, hum has been eliminated as far as it is humanly pos-

sible. When hum appears, annoying and undesired, we know that either our set is poorly built, or it has one or more defective parts or circuits. Hum is the most difficult of all troubles to locate in the modern radio set.

When hum first appears it is natural to suspect its presence in the tubes. Radio tubes are very sensitive, and should one of them become a vibrating unit because of internal variations in voltage, temperature, or the magnetic field, all of which go hand in hand, it should be removed. Although a tube may check perfectly in every respect it still can hum badly. Replacement is the final solution.

#### **Faults In the Speaker**

Hum often appears in the dynamic speaker, and a simple reversal of the wires leading to the speaker has been known to stop a hum that was otherwise unfathomable. Imperfect rectification in the speaker power supply will cause hum, and induction in the speaker cable, if it passes near the a. c. wires in the set, is the cause of a hum that is otherwise difficult to locate.

Hum has been stopped by reversing the power cord plug in its wall socket. This is one of those freak situations, due to some peculiar method of grounding the chassis of the receiver during the process of manufacture.

Pickup, or inductive action between detector and audio tubes adjacent to the a. c. leads and power transformers may introduce serious hum in the circuit. Grounding and shielding of the power pack parts and metallic cable covers will be found very effective.

High tension electric wires parallel or close to the aerial will produce the annoying inductive hum of alternating current. The obvious solution is to relocate the aerial as far as possible from the power wires and suspend it at right angles instead of being parallel.

When a very strong hum is noticed in the radio set, yet the tubes and speaker have been carefully checked, the source of trouble will be found in the power pack circuits. An open filter condenser will cause the trouble, and

*(Continued on page 25)*

# "ANN LEAF at the ORGAN"

**A**NN LEAF is just about as big as three and one-half healthy octaves or one athletic arpeggio. She could curl up for a nap in the center of the Wurlitzer keyboard without touching any of the red keys.

Danseuse, champion skater, tennis star—you visualize all of these when Ann, dainty, vital and dynamic, flashes across your horizon for the first time. Instead she is the girl of a thousand melodies from Bach to Berlin, under whose windblown bob cantatas crowd concertos, rhapsodies jostle the waltzes of Chopin and Strauss, and the melodies of Gershwin, Harry Warner, Donaldson and others, dozens of talented new composers, tumble over each other in a rush to the tips of her sensitive, facile hands. Ann averages several hundred tunes for each of her ten fingers—sometimes she thinks it is twice that many—and her mind is a giant mental keyboard for she must orchestrate each of these tunes



*The Sinclair Wiener Minstrels—Gene Arnold, interlocutor, (left), Bill Childs (lower left) and Clifford Soubier (right) are heard Mondays at 9:00 p. m. EDST over NBC-WJZ network.*

**"She's Charming,"  
Says Susie Sexton**

and build them all into a harmonious whole each time she is on the air.

Ann, you know, plays the mighty Wurlitzer in Paramount's ninth floor studio in New York and broadcasts eight or nine times a week over the Columbia System. Usually she goes on the air between two and four in the afternoon although the Dixie network often hears her in the evening. On Wednesdays at 3:15 p.m. she is heard in a commercial with Ben Alley for Cheris Foundations.

Eight doors had closed after me in the magpie corridors of the huge Paramount building off Times Square as I went in search of Ann. Up three short flights of stairs, down two, and I stood in front of the thick steel barrier to the organ room. I could hear the murmur of the announcer's voice, then Ann playing something by Sinding. The door was locked. As I glanced back over the labyrinth of corridors I wondered about those useful maps in the Edgar Wallace mysteries.

The page who had unravelled the passages had disappeared.

"That's the only way out," he reassured me as I wondered about Ann's possibilities of escape. I had not seen Ann or I would have been worried about the keyhole.

She was eating caramels with Adele Vasa when I entered. And she danced up to meet me, a tiny, tomboy artist with tousled head and laughing brown eyes. She wore a round-necked sweater of Scotch mist and a tweed skirt. I thought I had run into Mitzi Green just returned from a stiff tennis match on the Central Park courts. Perhaps I thought out loud.

"Well, Mitzi's quite a woman in her own way. You'll have to admit that," said Ann with her sparkling, irrepresible smile. "Do you mind waiting a minute while I run over a song with Adele? Then I'll change and we'll go somewhere for tea."

Any of her admirers would have known

then that this was Ann herself. For she sat down at the organ and struck a few chords for Adele who is singing with her now and then. I noticed she wore dancing pumps for the footwork. That volume of warm, colorful sound, sure touch and smooth execution were Ann at her best—the leading woman organist of the air.

When the song was ended the phone rang. Ann took the call and another chocolate while she changed from pumps to low-heeled walking shoes, with one hand.

The girls arranged a tennis match for the next morning.

"Under the trees on the West Side courts without fail," insisted Ann, the interpreter of Chaminade and Ravel. "I'm going to play tomorrow no matter what happens."

**"How Old Is Ann?"**

"Just how old are you?" I asked when everyone had gone. Ann pulled a jaunty, brown fabric sport hat down over her dark bob at a chic angle and threw on a beige sport coat and scarf.

"Oh, about twenty-three or four," she laughed. I tried to believe her. We went down to Forty-third street. The traffic had halted obligingly. I hoped nobody would blow a whistle as I held Ann firmly by the arm. One hearty blast would have sent her whirling away through the subway entrance like one of her own elusive measures of Macdowell or Greig. At last we could talk over tea, toast and marmalade.

"Usually I practice three hours a day," Ann told me. "My broadcasts usually come between two and four, then I rest a while and get back at five to arrange my future programs, which are usually made up three weeks in advance. I must add new selections to my repertoire continually and there are any number of young composers coming to the front all the time whose work must be given consideration. No, the classics are more popular than jazz and are getting to be more so every day. Composers? Tschai-kowski is one of the greatest favorites on the air. More so than Gershwin or Berlin, in fact. The selections most often requested I think are "Monastery Bells" and "Trees."

"One thing about the classics—they seem to endure forever. The life of a new popular song is probably three months. After that it dies down. If it has been unusually popular it may be revived again after several months. Then a year or so passes before you hear it again. That is the end usually except in very rare cases.

"My repertory? It contains between one and two thousand selections. These I must be able to play at all times. When I first started to play professionally a repertory of two hundred pieces was considered enough for any performer. Now a pianist or organist must have many more than that at her command.

"I try to keep my programs in tune with the times. Many of my selections you will notice, picture the seasons, flowers, or are adapted to holidays or birthdays."

"Is it hard to keep up with the requests of your audiences?" I asked.

"No," she said, "So many ask for the same numbers over and over. I am usually worried because a request comes in just after I have played a number. Then I cannot repeat for a long time. I remember I was anxious for weeks over a woman who sent in a doily. I have no special need for doilies but this woman was very particular that she would not send the ornament unless that tune was forthcoming. The doily arrived in due course, but to save my life, I cannot remember whether I ever played the tune she fancied."

#### **A Star at Four**

Although she learned to play without instruction, Ann studied music in Omaha, Nebraska, where she was born. Her first public appearance was in a kindergarten out there. At the time her age was exactly four. The selection was *Marche Militaire*. It ushered her classmates out of the schoolroom. After that she became the local child prodigy.

Her sister, Sheila, was indirectly responsible for her career. She would not play the piano her parents bought for her so Ann used to climb up and run baby fingers over the keys, just to see how it sounded.

Originally Ann had intended to become  
(Continued on page 25)

# A PAGE of HARD NUTS

## Some Puzzles In Radio

THE Puzzle Editor is running dry of ideas for new problems and unless he gets help quickly from some of the fans, this page may be missing from some future issue. Our puzzlers have contributed generously in the past, but the file is almost like Mother Hubbard's cupboard. SOS.

At this writing the returns for the April puzzles are just beginning to come in. The cross-call doesn't seem to be giving much trouble and No. 3 is proving capable of being filled in several ways. Evidently it is No. 2 which is giving our readers a run for their money. This was the palindrome puzzle designed by Carl Schmidt, Scranton, Pa.

### The Solution

The key to this puzzle lay in the letter L, it being the only letter not duplicated. This indicated that L must be the middle letter. The middle blank was the last letter of a three-letter call. As the letter before and the letter after the L must be alike the letter W was indicated. This gave us -WL W—. Another W is now indicated giving us WWL WW—. With this start, the puzzle gradually worked itself out. The answer is as follows:

XFG KROW CMCG WKAV WWL  
WWVA KWG CMC WOR KGFX.

"Puzzle No. 2, the palindrome, is my idea of a dandy puzzle," says Arthur L. Robb, 1338 Mulvane St., Topeka, Kansas. "It was a lot better than the 'magic square' of last month. The editor's method of solving the magic square was quite cumbersome. My first step was to divide the total of 3540 by 3 in order to find the average frequency. This came out on an even multiple of ten—1180. Looking up the stations on 1180 kcys. I found that WINS fitted right into the center square. From then on it was a mere matter of matching in other stations which were located on channels equidistant from and on oppo-

site sides of 1180. In all it took about five minutes."

In No. 3, one of the several possible solutions is as follows:

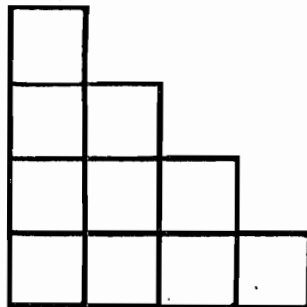
WACO  
IBMC  
CMJF  
CWHC

### The May Problems

Our No. 1 this month is for our "math" sharps. George Raba, of Stevensville, Mich., has made the momentous discovery that the square root of RADEX is FAN! Here is the demonstration. George submitted this problem in the form of an example in square root, but as the Editor had forgotten his square root, we had to change the problem to one in long division. Each of the letters used stands for one of the ten digits. The problem is to change these letters into the figures for which they stand.

		FAN
FAN	RADEX	
	FAN	
	FAXE	
	FZND	
	FYNX	
	FYNX	

No. 2 was designed by another of our Master Puzzlers, T. J. Johnson, Bowlegs, Okla. Several readers complained that T. J.'s last puzzle had them "bow-legged." We shudder to think what this one is going to do to them. Fill in ten letters in the ten squares to give six station calls. The two horizontal calls



read left to right; the two vertical and the two diagonal read down. No call is used twice. If anyone can find a second solution of this problem, we'll give him a special prize of a rubber aerial.

In No. 3 it is required to fill letters in the eight blanks in such a way that eight station calls will be shown, all reading left to right and no calls duplicated. Each call must have four letters.

□ □ □ □  
□ □ □ □

The cross-call this month (No. 4) was designed by Russell Overman, San

Fernando, Calif. It seems that errors in the key just will slip in but we hope none will occur this month. These puzzles frequently must be held over several months after they are received from our readers and in bringing them up to date, both horizontally and vertically, mistakes occur.

The April issue of this magazine should be used in calls for these puzzles as changes in the May edition may be made after this writing.

Get the correct answers to all four of these problems to us by May 20th and receive a copy of the June RADEX free.

Across

- 1- 12 Chicago, Milwaukee & St. Paul (all reversed).
- 13- 15 Most powerful in the state (reverse).
- 16- 19 500-watts daytime (reverse).
- 19- 21 The Bee, Inc.
- 22- 24 Weather reports.
- 25- 26 Same as 25-35.
- 28- 30 A powerful blue
- 30- 33 Formerly WGBS.
- 36- 38 1000-watts daytime (reverse).
- 39- 40 Seventeen calls begin with these.
- 41- 43 One k.w. Columbia.
- 46- 48 A twin station.
- 49- 51 A palindrome.
- 53- 55 Cape Town (reverse).
- 56- 58 Two Columbias in this town (reverse).
- 58- 61 Near ends of dial and alphabet.
- 62- 64 Five NBC on this wave.
- 65- 68 Three in this state share time (reverse).
- 69- 72 300-watts.
- 73- 76 Four stations synchronize.
- 77- 80 Five stations in this city (reverse).
- 81- 84 1 plus X.
- 85- 88 Deleted in Steubenville.
- 89- 91 Reverse a Cuban and get 10.
- 92- 94 An old-timer (reverse)
- 94- 97 Now WTEL.
- 98-100 Last three of Dn station (reverse).
- 102-104 A Washington station.
- 105-107 Call is abbreviation of another state (reverse).
- 110-112 Recently changed wave (reverse).
- 113-114 First two of seven.
- 115-117 In a negro republic (reverse).
- 119-120 Last two of a newspaper.
- 122-124 Five CBS in this state.
- 127-128 Middle letters of 10 stations.
- 129-131 On a split frequency (reverse).
- 132-134 Only 500-watt in the state.
- 135-137 In Iowa (reverse).
- 138-140 In the Northwest.
- 141-144 One of two calls.
- 145-148 Former Gold Medal Station (reverse).
- 149-152 On 1200 (reverse).

- 7- 40 The "Big Noise" of the South (reverse).
- 8- 31 5000-watt daytime.
- 11- 33 In Karlsborg.
- 12- 44 Shares with Wisconsin.
- 27- 46 Unity School (reverse).
- 32- 51 A wave to itself (reverse).
- 38- 56 5 k.w. but no chain.
- 41- 61 In Washington.
- 45- 66 On a Canadian-shared wave.
- 48- 69 An NBC station (reverse).
- 52- 75 CBS in the Southwest (reverse).
- 53- 89 Last three stand for city and state (reverse).
- 55- 79 Synchronizes (reverse).
- 58- 94 Another palindrome.
- 59- 95 Two daytime on this wave.
- 60- 96 In Movieland (reverse).
- 62- 98 Last three letters are an ad.
- 64-100 On 1200.
- 75-108 On 1310 (reverse).

- 78-101 Same owners as 75-108.
- 81-104 A Columbia with only 100 watts.
- 92-112 Only CBS in the state (reverse).
- 97-115 No chain in the state (reverse).
- 102-121 7500-watts.
- 107-126 Frequency is one-fifth the power.
- 109-141 In the smallest province (reverse).
- 113-146 In Jersey.
- 114-147 Last three letters leave a headache.
- 118-152 Only CBS in the state (reverse).
- 120-142 Biggest in the state (reverse).
- 122-145 West Coast.
- 125-148 Last station in the state (reverse).
- 127-151 American Radio Tel. Co.

7-6

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32	33	34		
35	36	37	38	39	40	41	42	43	44		
45	46	47	48	49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64	65	66	67	68
69	70	71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90	91	92
93	94	95	96	97	98	99	100	101	102	103	104
105	106	107	108	109	110	111	112	113	114	115	116
117	118	119	120	121	122	123	124	125	126	127	128
129	130	131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150	151	152

Down

- 1- 35 In Manhattan (reverse).
- 2- 26 Twenty k.w. (reverse).
- 5- 28 First three of two (reverse).
- 6- 39 On 1370 (reverse).



# WHEN THINGS GO AWRY

## Set Burns Out Tubes

*My model 27 Super-Zenith burns out its -99 tubes, or they appear to become deadened and useless. This set also tunes too broadly. Is there anything you can suggest which will correct these faults?*

This is an old model set, and has been exceeded in selectivity by newer models. The wiring of the 27 model is peculiar, in that the -99 tubes are arranged in connected sets of series and subject to overloading of current in the delicate filaments. The type of filament used causes it to become paralyzed when the current becomes too great. Try using an Amperite voltage ballast tube in series with the 110-volt house supply to guard against the excessive surges in the line. When -99 tubes seem deadened they frequently can be renewed by the reactivating process.

## Headphones on Philco Receiver

*How can I connect headphones to my Philco receiver model 70? Must I remove the speaker from the cabinet?*

See page 30 of the December *RADEX* for instructions and data as to the colors of the wires in the speaker unit assembly. It is best to remove the speaker and separate the wires at the connection plugs. It is difficult to make the connections to the short leads between the transformer and voice coil when the speaker is in place.

## Using the Air Cell Battery

*Can a three-tube regenerative set using the new two-volt tubes, types -30 and -31, be used with the Air Cell "A" battery? After purchasing one of these batteries it seems to me that it can be used only in sets specially designed for it. Would the filament rheostats in my set injure the Air Cell in any way? At present I am using two dry cells until I get more definite information.*

The Air Cell battery may be used in any set that does not require more than two volts. The development of the new -30 series of tubes brought the Air Cell battery into being. It is simply a form of carbon cell of long life and constant voltage. The rheostats in your present

## Suggestions by The Technical Editor

set control the volume by increasing or decreasing the filament current. This is not good practice in these times, and such tends to shorten the life of the tubes and the battery. Set the rheostats to a point that feeds exactly two volts across the filament terminals of the tube sockets as measured by a voltmeter. Operate the set by turning the switch on, and if more volume control is needed it is best to install a potentiometer to control the



*Blue-eyed Mildred Hunt, contralto and one of Radio's pioneer artists—a CBS star.*

grid ("C" battery) voltage on the last power tube.

## Broad Tuning and Weak Reception

*I have a Sparton model 620 receiver that tunes broadly and does not bring in distant stations until after 9 o'clock at night. My aerial is about 50 feet long and 45 feet high. The ground is a single copper rod driven into the ground. What do you suggest?*

Perhaps the set tunes broadly because it needs readjusting. This model has three equalizing condensers connected to the radio frequency amplification unit, and they are numbered 1, 2 and 3. The last one is next to the dial drum. They should be adjusted with an insu-

lated handle screw-driver, or one made of a stick of hardwood. First, tune in some distant station operating on 600 kilocycles. Adjust the three condensers very carefully until the incoming signal is at its loudest, and the tuning of the dial seems sharper. Then turn to another station at about 1200 kcys., and repeat the readjusting and tuning until the signal is loudest. Repeat the operation several times until the adjustment is perfect. Also adjust the antenna compensating condenser in the aerial circuit until the signals are loudest from a distant station.

The aerial and ground are of great importance with the Sparton. Your aerial seems as good as can be had, but the ground can stand some improvement. Try driving two addition six-foot lengths of new water pipe into the ground. Connect the tops of all grounds together with copper wire securely soldered. Pour water down the pipes to settle the earth and make better contacts. Then, too, your tubes must be tested and replaced if necessary, using good new standard makes, such as the -27s and -71As. Day-time reception is never as good as that after dark as far as distance is concerned.

#### **Intensifying Weak Antenna Signals**

*The February issue of RADEX explained an amplifier that could be used with a loop antenna to boost up signals. Can I use the same device with my Philco model 20 receiver so as to intensify the antenna signal voltages?*

It is possible to use a signal intensifying one-tube radio-frequency amplifier between the antenna and your present broadcast receiver. The set described in the February answer will suffice. The scheme may not always work because of the nature of the receiver, but, generally speaking, the device should aid greatly in increasing the signal voltage, and also sharpen tuning somewhat.

#### **Adjusting Trimmers and Neutralizers**

*Should the three neutralizing condensers on my Fada model 22 set be adjusted in connection with the four trimmer condensers on the large gang condenser, considering each t. r. f. unit as a separate operation?*

Your set has three small neutralizing

condensers each connected between the grid of a radio frequency tube and the neutralizing coil of the r. f. transformers. It also has four small compensating or trimmer condensers mounted by each of the large variable condensers. The three neutralizing condensers should be adjusted carefully, beginning with the first, until the set does not squeal.

The trimmers on the gang-condenser have no association with the neutralizing system and should be adjusted separately after the first operation is completed. Tune in some distant station that is not fading, and adjust the trimmers for maximum volume. But do not tamper with the trimmers until the gang condensers have been checked for misalignment of plates or two or more of the large condensers on the shaft. No amount of trimmer adjustment can balance two condensers if they are out of line, for the trimmer has a very small limit of capacity. Adjust the trimmers on two distant stations—one high and one low frequency. Use well-insulated or wooden instruments for turning the adjustments.

#### **Substituting Two-Volt Tubes**

*Can I use the two-volt tubes in my Freed-Eiseman model NR6 radio set instead of the tubes now in use?*

You do not say what tubes are now in use, but we presume them to be -01As. Substitute the type -30 2-volt amplifier-detector tubes in all of the sockets, but be careful to use exactly two volts "A" battery instead. This may be a "Air-Cell" battery made for the purpose. It may be necessary to reduce the 45-volt B battery now used on the detector tube to about 22½ volts in case the set shows a tendency to howl or distort with the -30 detector tube.

#### **Telegraph Office Interference**

*Every time the telegraph office located in our railroad station sends a message the clicking of the instruments is heard in all the radio sets in our town. How can we stop this annoying form of radio interference?*

The sparking of keys and relays when telegraph instruments are working can be a serious menace to good radio reception. If a heavy current is used the sparks

will be very strong. But we are surprised that this form of static clicking can be heard so far over the town.

The trouble can be remedied easily, but it calls for close cooperation by the railroad and telegraph company. Large fixed condensers will absorb the sparks and prevent the broadcasting of tiny radio static waves, but must be connected across the contacts of the troublesome keys and relays. The local company should do this work, but if the radio listeners are forced to supply the parts and do the work, they should be reimbursed. Write the Tobe Deutschman Company at Canton, Mass., for prices

ordinary signal coming through from the aerial. It is a very weak signal. If the t. r. f. set is sufficiently powerful, this weak signal will pass through the amplifier to the speaker with considerable volume.

Makers of short-wave converters do not hold to arbitrary frequencies. Some superheterodynes work best with converters when tuned to 650-700 kilocycles. One, the Philco, must be set at 1000 kc. when used with its own converter. Tuned radio frequency receivers operate best with converters when tuned to the high wave end of their dials—approximately 550 kilocycles.



*The Pickens Sisters from Georgia—Jane, Helen and Maria (left to right) have been signed to an exclusive contract although they had never appeared on the air. The girls are all finished musicians and play several instruments as well as the piano. At 10:45 p.m. EDST, daily except Saturday and Sunday, NBC-WJZ network.*

of the necessary filter devices. They specialize in this sort of trouble.

#### **Short-Wave Converters**

*The article about short-wave converters in the March RADEX does not state that converter adds to the sensitivity of a tuned radio frequency broadcast receiver. Also, mention is made of two settings for the receiver—650 and 550 kilocycles; which is correct?*

Short-wave converters do not add to the original sensitivity or selectivity of the broadcast receiver. They merely convert the received short-wave signal to a frequency that will pass through the tuning limits of the receiver. This converted radio frequency signal is simply passed into the antenna connection of the broadcast receiver as if it were an

#### **Power Transformer Is Burned Out**

*I have a burned-out power transformer in my Bremmer-Tully model 26 receiver. Where can I get a new one, and how should it be described?*

We believe that your set is the Bremmer-Tully model 7-70 which came on the market sometime in 1929. It has seven tubes—three -26s, two -27s, two -71As, and an -80 rectifier also. By power transformer you mean a transformer that takes the house a. c. power and changes it to the proper voltages for the radio set, or to operate the above tubes. Such transformers may be obtained at any place, but we suggest you write the Coast to Coast Company, 142 Liberty Street, New York City, who specialize in replacement parts.

### Changing to Superheterodyne Circuit

*Can I change the -26 tubes in my set to the -24 screen grids, and the -71As over to -45s? How can I change my Majestic model 91 receiver into a superheterodyne?*

You cannot substitute the -24 screen grids for the -26s, and -45s for the -71As. The latter two may be interchanged with some slight changes in wiring but will not help your set. However, it might be wise to have all your present tubes tested, and replaced by new ones if they are old or inefficient. The Majestic model 91 receiver cannot be changed over to a superheterodyne circuit without being entirely rebuilt with many additional parts and a number of replacements.

### Telephones On a Crosley Set

*How can I use the -24 tubes in my Crosley model 42S receiver instead of the -27s? I wish to connect telephones to this set. Please tell me how to go about this.*

You cannot use a -24 tube in the place of a -27 which is now used in your set. The -24s are screen grids while the -27s are not.

Telephones can be connected as follows: At the end of the cable leading to the dynacoil speaker terminals four wires will be found, two of which are brown in color. Place the tips of the phone cord to the two contacts to which these brown wires are connected and the phones should operate. But the speaker also works. A phone jack can be connected across the two wires and the phones plugged in the jack at will. If the speaker is not desired at the same time cut one of the short wires between the output transformer secondary coil and the voice coil of the cone, and place a small switch in this opening so that the coil in the speaker can be cut off when the phones are in use.

### Locating Voice Coil Leads

*How can I locate the voice coil lead wires in the speaker plug assembly of my Philco 112 broadcast set?*

The model 112 has four wires leading to the speaker plug. None of these are voice coil leads. Two of the wires lead from the plates of the two push-pull power tubes to the primary of the output transformer, and the other two, green and yellow, lead to the field coil.

The voice leads are two short wires on the speaker unit itself. They connect the secondary coil of the output transformer to the voice coil of the cone. In most Philco sets the output transformer is a part of the speaker unit and the leads to the voice coil are very short.

### Another Howling Set

*My Crosley 42S broadcast set is noisy with howls after it is turned on. How can I stop this trouble?*

The trouble is either microphonic or regenerative. The detector tube—the -27—perhaps is defective. Make sure the shielding over the tubes and coils is perfectly grounded to the chassis. Look also for poor contacts in the grid leads. Perhaps the plates of the detector or radio frequency tubes are getting too much plate voltage due to some fault in the voltage divider system.

### Set Cuts On and Off

*What causes my Atwater Kent model 60 set to give loud snapping sounds with occasional cutting on and off? The tubes have been tested and are perfect.*

There are two models in this series, so we presume yours to be the one using three -24 tubes, two -27s, two -45s, and one -80. Look for a defect in the volume control and its resistor. Make sure all the tubes, especially the -45s, fit firmly in their sockets, for looseness will cause trouble. This sometimes comes after the tubes and contacts become hot when expansion of the parts will cause uneven contacts in the plate circuits and result in such noises. It makes the set cut on and off as well. The power pack may not be functioning perfectly. It should be tested for poor connections or punctured condensers. The various fixed bypass condensers and resistor may be defective or loose. They can cause this kind of trouble too. Are you sure the aerial is hanging tightly? It may occasionally touch some grounded object.

### Changing the Tubes

*I wish to change my Kolster 6D receiver over to the two-nolt tubes and use screen grid tubes. Please explain how I can do this myself.*

The set can be changed over if it is to be used entirely as a battery set. Substi-

(Continued on page 26)

# READING THE EDITOR'S MAIL

**M**ANY letters have been received in approval of the classified index to chain programs. It is gratifying to know that this feature is proving helpful. So far as we know this is the only publication presenting such an aid to program enjoyment. This, together with the present convenient and comprehensive arrangement of What's On the Air Tonight should make dialing a pleasure. Now that the newspapers generally have just about ruined their program information by deleting names by which the features may be identified, radio listeners everywhere are looking more and more to these pages of RADEX for their program information.

If this issue of your magazine reaches you a day or two late it will be because we held our forms beyond our regular date of publication in order to give you the many changes in programs that always come with the shift to daylight saving time. The clocks are moved ahead this year on Sunday, April 24th. Your favorite programs will now come to you, unless you live in the Eastern Daylight Zone, an hour later than usual although some old features will necessarily be moved to other "spots."

Now we'll open the mail. Do WFAA and WBAP use the same transmitter and, if so, why do they have different power ratings?

"RADEX listing for WFAA-WBAP is correct," writes Eugene Martin, 704 S. Green St., Wichita, Kansas. "The transmitters are separate. WFAA's 50 k.w. station is located 18 miles northwest of Dallas, 18 miles northeast of Fort Worth, near Grapevine, at the highest point in North Texas. WBAP's 10 k.w. transmitter is situated 8 miles northwest of Fort Worth at Lake Worth. I am a former Dallasite and have visited both transmitters numerous times. However, WBAP is on the air one hour per week over the Grapevine transmitter in a joint broadcast with WFAA, the Damosch Musical Appreciation Hour, which is partly on WBAP's time, partly on

## Monthly Chats With the "Family"

WFAA's. In September, 1928, WFAA and WBAP were both granted C. P.'s for 50 k.w. On May 1, 1929, WFAA was changed from 1040 to 800. It was then planned to erect one 50 k.w. transmitter at Grapevine for both stations. Plans went along smoothly for a while, but when the time came to select transmitting equipment, a disagreement arose. WFAA wanted R. C. A., G. E. and Westinghouse units; WBAP wanted Western Electric. WBAP wanted to build a 50 k.w. station for as little as possible; WFAA wanted to build as fine a station as possible. So WBAP withdrew and it became a WFAA enterprise. On May 11, 1930, the first superpower station in the south and the first west of the Mississippi took the air—WFAA.

"The WFAA station cost \$300,000. There is no finer transmitter in existence. The 300-foot Milliken Radio towers are set 700 feet apart and can be seen at a distance of 25 miles. On December 16,



*Jack Denny and his orchestra recently broadcast from a B. & O. train while speeding at seventy miles an hour.*

1930, WFAA dedicated a half-hour program to Hawaii, and it was picked up and re-transmitted by KGU. I believe that's a record for long-wave stations. Has anyone of the RADEX family heard of an instance where any long-wave station was rebroadcast at a greater distance than 3800 miles? If anyone still doubts that WFAA-WBAP are separate stations, let him tune in some weekday night at 9 p.m. CST and listen to the changeover and note the difference in signal strength. In this part of the country WFAA comes in four or five times as loud."

### Here Comes the Static!

The static season is approaching and our readers will be glad to learn how others have reduced this nuisance. Here's one method:

"Last night there was a snow storm brewing and the static was terrible," comments Edwin Barraclough, 320 East 3rd St., North Platte, Nebr. "I could get hardly anything at all on account of the noise. So I tried out the new headphones and adapter you sent me. The reduced volume cut out the noise and I was able to get most any station and I radioed until midnight. The phones and adapter are sure fine and I am well pleased with them." Mr. Barraclough has a Montgomery-Ward 1931 7-tube and has three aerials which he can cut in or out using any one, two or all three at will. One is a 75-foot straight aerial of twisted copper wire. The second is 45 feet long, running under the eaves of the house. The third is 25 feet of single wire heavily insulated, erected in the attic. "I do not notice much difference between the two outside aerials," reports Mr. Barraclough, "but am surprised at the difference between them and the one in the attic. The first night I used the attic aerial I found there was more volume and less noise than with either one of the outside aerials. I believe the insulated aerial is the stuff and am going to try out other theories with it."

And speaking of aerials. Frank A. Johnson, 59 West 66th St., Chicago, Ill., who has so many stations on his log that merely to name the total starts an argument, writes that he agrees with Roger

Causse and Samuel F. Owens regarding long aerials. With 80 verifications from European stations, Mr. Johnson has a right to speak regarding DX reception. "We all know that 25 to 40 feet of wire will pull in Canada, Cuba and Mexico when connected to a good Super. On a two-tube set such as Lilley's or a three-tube set like Causse uses, a long aerial is necessary. I've always found 160 feet plenty long enough for larger sets, but with a 2, 3, or 4-tube battery set 250 feet up to 1000 may be used." Mr. Johnson also agrees fully with Richard D. Caddell on grounds. Even in a location only eight miles from the Chidago loop, Mr. Johnson uses no ground, although he admits that a ground is wise when using a short aerial.

Here is a reader who has discovered that his filtered aerial is more satisfactory when one end only is grounded. Why this should be so, we cannot say. Others have gotten better results with both ends grounded. It only goes to show that aeriels and grounds are something that must be tried in various ways to get the greatest efficiency.

### Kinks In the Filtered Aerial

"Instead of using only one 60-foot filtered aerial wire with a special lead-in," reports Rudolph Kure, 3633 Vine St., Cincinnati, Ohio, "I soldered two 60-foot filtered aerial wires together, using half of the second wire as a horizontal aerial and the rest for a lead-in direct to the aerial post of my receiver (without splices). I am thus getting tremendous volume, but only if I ground the solid straight insulated core wire on but one (the farthest) end. The moment I ground the solid straight insulated core wire also on the other end (that is on both ends) near the receiver, my volume is immediately cut in half."

"What gauge wire makes the best antenna?" inquires Charles Rowland, 23 Myrtle Drive, Pontiac, Mich. "Do you recommend single or multi-strand wire?"

Technical experiments with multi-wire aeriels show only a theoretical difference between a single wire, a braided wire and several wires. The difference between them has not proven

marked enough to detect in practice. Let us say once more that the "best" aerial for any set and any location can be found only by experiment. It cannot be calculated by mathematics nor technical data.

### And Now the Cuban "Reds"!

Remember that time the communists broke in and took charge of a Mexican broadcasting station and put on a program of their own? Well, Robert R. Rawstron, Claremont, N. H., sends us a clipping indicating that the Reds of Cuba are following the example recently set for them by the Communists of Mexico. From the last paragraph it would seem that the authorities feel that it was an "inside job."

"HAVANA, Cuba, March 20 (A.P. — Radio fans of Havana had hardly tuned in Station CMCF this afternoon to hear the harmony of a popular trio, when there came the raucous cry: 'We are the Communists of Havana. Down with Machado! Strike on March 24!'"

"There followed six or eight minutes of harsh, fast and excited address to the 'people of Cuba and workmen in general,' the President was berated and the police were called assassins.

"Just as suddenly as it began the address stopped.

"When police got to the station they were told that seven men with pistols had rounded up everybody in the building, stopped the songsters and departed.

"All the station staff were arrested pending an investigation and Communications Department officials said the station probably would be closed."

### How to Get WJSV

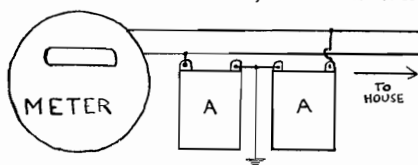
Who was it wanted to know when he could pick up WJSV when KSTP was silent?

"Those in the West who have never heard WJSV on account of interference, may now hear them with a morning revival from 6:00 to 7:00 a.m. EST," says William B. Brown, President of the Thomas A. Edison DX Club, 1822 Seventh St., N. W., Washington, D. C. William tried the tip given by one of our readers of writing a postcard to XED instead of a letter but even that failed to pass the eagle-eyed postal inspection.



*Elizabeth Barthell, charming Southern singer, featured in her own program Tuesdays at 7:00 p.m. over the CBS-Dixie network (EDST). Photo by Mitchell, New York.*

"I would like a question answered for me," he goes on. "Our next door neighbor has a Frigidaire and when his motor is running all the noise comes into our set evidently because our light line is grounded to a water pipe and so is his Frigidaire." The best answer to this problem is to induce the neighbor to put a filterette on his motor. Filterettes are manufactured by The Tobe Deutschmann Co., Canton, Mass. Away back in the September, 1929, RADEX, J. C. Weller, of Elyria, Ohio, described a method by which he eliminated similar interference. As shown in the sketch two condensers (marked A) with a capacity of two mfd. and a wiring voltage of D.C. 300, A. C. 200, are attached to the two power lines just inside the meter with a ground wire attached between the two condensers. This device, said Mr. Wel-



ler, "did away with the necessity of a ground wire from the set, in fact the set worked better without a ground." Be sure to throw the switch before making this installation.

#### Defends WFEA

"Upon reading the April issue and especially the letter of Mr. Zimmerman, I feel that a few words in defense of the stations, particularly WFEA are in order," comments Keith L. Freas, 17 Pullman Ave., Kenmore, N. Y. "When WFEA was testing, according to a letter received from them by our club, the Buffalo News DX Club, they were working with a staff of only the engineers, who were too much occupied to read and answer the many letters which they received. As soon as their tests were over, they verified very religiously, and I trust Mr. Zimmerman has by this time received his. Many other fans, I believe, expect too much of the stations. Do they always send in at least three selections (consecutive), the time, and date? Do they remember that when it is 2:00 a.m. EST, that it is only 11:00 p.m. PST of the day before? Thus the dates of information can very easily be mistaken for a time when they were not on the air. Do they allow enough time for reply?" Mr. Zimmerman writes that he realizes now he should have given WFEA more time to reply.

RADEX has recently been introduced into Newfoundland through the good offices of W. J. Fitzpatrick of St. John's. It takes ten days at the best for our shipments to reach that country. We marked the shipment of April copies "Rush" to catch a New York steamer. A day or two later we received a letter from Ralph H. Schiller, Hawthorne, N. J., who is in the foreign department of the New York post office that this package had passed through his hands and that he had made it his personal business to get it on the steamer. RADEX friends are everywhere. Mr. Schiller writes as follows: "The Transcontinental DX Club, located at Hawthorne, N. J., is composed of members residing in the countries of Australia, Canada, Ireland, Mexico, New Zealand, Porto Rico and 18 states in America. The 'DX News' is issued

monthly and contains a full page of schedules of DX stations."

#### How the NNRC Rates Them

Alfred W. Oppel, Assistant Executive Secretary of the Newark News Radio Club, writes as follows regarding the honors given by that club. "We have the Junior class with a requirement of 100 stations heard. The Master rating requires 200 stations with one 2000-mile verification. The Past-Master rating requires 300 stations with five 2000-mile verifications. The Ace class with 400 stations and ten 2000-mile verifications. The fifth class, the Super-Ace, requires 500 verifications with fifty at 2000 miles, included in the total, which must be sworn to before a notary public. For listeners in the middle West we have separate ratings. A resident of Chicago must have at least 500 verifications with 67 of them being 1500 miles from point of reception. Middle-west listeners may count all Australians, etc., their mileage being divided by 2000 and the total counting as that many 2000-mile verifications toward any of our certificates."

In the April issue, Robert Rosenberger, 17 Jansen Place, Kansas City, Mo., wrote regarding his anxiety to pick up Japan. Our reply was that it would require a combination of infinite patience, tuning at the right time and in the right place, and—luck. Now Robert writes: "Thank you for your sterling advice. A few nights ago when I just had that feeling that there wasn't a station left on the air that I hadn't received, I thought I would try to bring XEN on 710 a little better. All at once a phenomenal increase in volume occurred and for two periods of fifteen minutes each I was sitting there listening to JOJK in Kanazawa at 3000 watts! So you see I got my prize catch when I wasn't looking for it."

#### Gets Fifty More On His Scott

W. C. Everhart, 104 Front St., Fargo, North Dakota, has a new Scott All-Wave which has given him excellent results but he says his first copy of RADEX enabled him to add fifty new stations. On the short waves, he has received most of the police calls and the principal stations of the U. S. as well as England,

*(Continued on page 28)*



# STORIES of Your RADIO FRIENDS

## Betty Writes of the Celebrities

**I**N Hollywood, where she spent seven years as a radio favorite, they called June Pursell "the girl with the ballad voice." Now she is in New York singing old and new favorites for NBC audiences, although she never took a music lesson and embarked on a vocal career by accident.

A native of Indianapolis, June moved with her family to Chicago, where they remained long enough for her to graduate from high school. A week later they moved to California, where her father died five days after their arrival. It was necessary for June to go to work and her first big moment was a \$35 a week job singing in a Los Angeles cafe, but that job lasted only a week. Then came opportunity. "I just happened to sing one night, as a dare, in a Hollywood club," explains the platinum-haired and blue-eyed singer, "I borrowed a ukulele from a little boy and sang a number. You see the program was being broad-

cast over a local station. Well, I kept on singing for two hours and a half, and after it was all over I found I had a job with the radio people and I stayed seven years."

June's radio debut that night launched her on a career. One listener who called on her to say her singing was beautiful was Aimee Semple McPherson. Between radio engagements she became a vaudeville and club headliner. She traveled with Abe Lyman and his band and was headlined on the Keith-Orpheum circuit as "The Haunting Blues Singer." She did several shorts for Metro-Goldwyn-Mayer, and 1500 letters arrived from motion picture patrons. She signed a contract for a year to make phonograph records.

In 1930 June was acclaimed the most popular radio star on the west coast and won a trip to Hawaii. Then friends urged Miss Pursell to come east after her California success, and she arrived at the NBC for an audition. She was signed immediately. June's voice is peculiarly suited to the singing of ballads "with a swing." That is perhaps why she is often compared with the late Nora Bayes, whose low, rhythmical voice captivated American song lovers.

Five feet four inches tall, weighing 125 pounds, she stands easily before the microphone and whispers her songs. She gazes at the ceiling and prefers to be alone in the studio during a broadcast.

Tune in for June any Monday, Thursday or Saturday at 6:45 p.m. EDST, over the NBC-WEAF network.

### Brokenshire Is Back

"Radio's playboy" and "Society's playboy" the studio folk call him, but actually there are few announcers who take their work as seriously as Norman Brokenshire. His familiar and resounding "How do you do, ladies and gentlemen, how do you do" is an air signature that has greeted listeners on every program he has introduced for the past eight years. Brokenshire is also an authority on program building and an excellent writer of radio continuity. In a



June Pursell

majority of cases he writes the programs he announces.

"Broke" was born in Murcheson, Ontario, June 10, 1898, and christened Norman Ernest. He was brought up in small Canadian towns to which his father, a Scotch Presbyterian missionary and school teacher, was assigned. Norman came to the States when his father became pastor of a church at Cambridge,



*Norman Brokenshire*

Mass. Later the family moved to Hallowell, Maine, and Norman opened a printing shop in the woodshed behind the parsonage.

The war broke up the family. Norman's father went to France as an instructor in language and Y.M.C.A. worker; his mother went to London to join her son, Laurence, who was a war casualty in a hospital there. Business dwindled and young Brokenshire was forced to give up his print shop. A succession of jobs followed, and he decided to go to war. He got permission from his mother, being still under age, and joined the infantry. Before he had completed his training, however, the Armistice was signed. At the age of nineteen, he became the youngest Y.M.C.A. hut secretary among 3000. He was in charge of Fort Totten and other Army post "Y" work,

and arranged entertainments, plays, musicales and such. Other jobs followed, and finally one Sunday morning when, as usual, Brokenshire was running his eye over the classified ad section, a "blind" advertisement for a radio announcer caught his attention. "It listed more qualifications than I ever imagined any man possessed," he said, "but I had nothing to lose, so I answered it."

When he arrived at "Broadcast Central," formerly WJZ, 400 other men were waiting their turn. Norman and three others were selected. Brokenshire soon became an idol with listeners everywhere. He was transferred to Washington, D. C., and back to New York. He resigned to become a free lance and traveled this country and Europe, and finally joined the Columbia Broadcasting System. His fan mail still breaks all records.

Norman Brokenshire announces many programs, but you can hear him regularly on the "Society's Playboy" program on Wednesdays at 10:30 p.m. EDST, over the CBS.

#### **The Voice That Satisfies**

"Music That Satisfies" is an apt description of the sort of melody offered by Ruth Etting. Her career embodies a story more often encountered on the screen or in the pages of a novel than in real life. Born in a small town, Miss Etting made her way not only to the glamor surrounding a glorified "Follies" personality, but to fame as a singer of radio, the stage, screen, and recording.

Ruth was born in David City, Neb., where her father was head of the milling business founded by her grandfather. As a child she displayed considerable talent for sketching, mimicry and dancing. After graduation from her hometown high school she decided to make art her career and went to Chicago, where she studied fashion design at the Academy of Fine Arts. Her studies were more costly than she has reckoned and it became necessary to find a source of additional revenue in order to continue them.

She learned that several of her fellow-students earned their tuition by dancing in the choruses of local night clubs and

found that she could indulge another of her natural talents to this end. This proved to be the turning point of her career, for the plaintive note which is an intrinsic quality of her voice attracted the discriminating ear of her director. A principal in the show was taken ill and Ruth, as substitute, warbled her blues songs. When the art school reopened for the next term she was not present, for her newly discovered voice had won her engagements which took up all of her time, with personal appearances in local theatres and work in supper clubs.



*Ruth Etting*

Soon after she was chosen to record exclusively for the Columbia Phonograph Company, her discs were best-sellers throughout the country. Florenz Ziegfeld heard the records and signed her for his productions, on the advice of friends, without meeting her. This was in 1927.

Ruth is slim, blue-eyed, with soft blonde hair. She spends all vacations at her 150-acre farm near David City, Neb., and takes her hand at the daily chores. Still designs and makes most of her own clothes. Was picked by a jury of Chicago artists as the happiest combination of beauty and brains they had ever seen.

Has never taken a music lesson and never had a radio audition. Her voice is the answer to the radio control engineer's prayer—clear as a bell and so even in tone that the engineer rarely needs to touch his controls. She sings fluidly, with no apparent effort.

You can hear Ruth on the "Music That Satisfies" program every Wednesday and Saturday at 10 p.m. EDST, over the CBS.

#### **An Artist from Mexico**

From Mexico comes Tito Guizar, romantic young tenor whose appealing love songs have won him a large following. Tito's parents were horrified at his desire to go on the stage. His mother was a talented vocalist and pianist, and his father a skilled guitarist and mandolinist, but only as amateurs who played and sang for their own amusement. It was while attending the Mexican National University in Mexico City that Tito's fellow-students discovered and recognized his talents and became an admiring audience. This convinced Tito that he could be successful in the career for which he had always longed. In 1925 he went to his father and declared that he was through with medicine and academic studies forever. The next two years found him in Italy studying voice at St. Mark's Academy in Milan. In 1928 he returned to Mexico City to appear in opera. But Tito wanted something a little less formal than the role of Grand Opera hero. Thus he began to combine the classic technique he had

*(Continued on page 72)*



*Tito Guizar*

# RUNNING UP NEW RECORDS

## Hobbying With Our DXers

**T**HIS month we are giving you glimpses of some great records. Read 'em and weep. Think of records in three and even four figures being made right in Chicago and Pittsburgh, and Brooklyn. If it weren't for the darn verifications they have got to show for it, you'd say it just couldn't be done. And some of them have the audacity to make these records on old battery sets. There ain't no justice.

We have never been able to decide whether it encourages us or discourages us to read about some guy who borrows fifty dollars and stretches it into a million in a week or two. So it is with these big records. One minute they make us want to put the set up in the attic and try to forget it and the next we want to start at it again and see if we can't do it. Well, anyway, here they are, for better or for worse:

"I am the proud possessor of a very moderately priced nine-tube Silver-Marshall Super," says Roland L. Churchill, 4323 No. Tripp Ave., Chicago, Ill. "I use a six-foot cast-iron pipe one inch diameter for my ground and I have three aerials of varying lengths from one to three hundred feet all connected to a three-way inductance switch on the side of my cabinet so I may change at will. Since October 31, 1931—four and a half months—I have acquired a log of 517 stations with exactly 400 verified. I have paid for only one of these verifications—KWEA, Shreveport, La.—the others all replied for postage. On all stations heard I keep a card index arranged as to those verified, verifications requested and heard but not verified. Each card shows date, time and selections heard. It also shows date request was mailed and the date of verification. My RADEX map is worth much more to me than the 25 cents it cost. I have it mounted on a drawing board so I can hang it up on the wall as an everyday inspiration to spur me on in my efforts. Using Chicago as a

center I have drawn red circles at distances of 250 miles apart. Map tacks of various colors designate the power of the stations heard. You should see my map; it is crowded with tacks. In closing let me express my sincere appreciation for what I consider the finest of all radio logs and one of the finest of radio magazines—RADEX."

### Bringing In the T-P's

"These last few months have been glorious for Trans-Pacific reception," reports Roy Cattell, R. F. D. No. 2, Paterson, N. J. "Since November 5th I've heard JOAK, JOBK, JOCK, JOGK and JOIK, besides an as yet unidentified Oriental which signed off at 5 a.m. EST, December 27th, on 760 kcys. In Australia I've heard 4QS on February 15th, 3LO on February 19th and 4RK and 2BL in March. I have 2YA verified over a year, in addition to KGMB and KGU. One week I heard KGU five times out of the seven mornings. If they are coming through they can clearly be heard even while KOIN is on and as soon as KOIN has definitely signed off, KGU is right there at practically the same volume. Now that they have moved from 940 kcys., or will soon, they will become easier to log. I still use the old Majestic 71 Neutrodyne and it's running rings around the high-powered supers with pentodes and whatnot."

### The Distant Canadians

"For Fred W. Harp of Brantford, Ont.," suggests Roy, "He should try CKMO every day, except Wednesday and Saturday, from 11 p.m. to 3 a.m. PST, and CKWX on those two mornings from 11:30 p.m. PST on. Another is CKOV from 12 till 2 a.m. PST on Friday and Sunday mornings. CHWK comes on the first of each month at 11 p.m. PST for a test. I also verified CJCJ April 9, 1931, at 2:20 a.m. EST. They may still have the program. Perhaps Milford Voss would rather I did not answer his question, but he asked for it, so here goes. He asks who has more than 33 Californians as far as 1800 miles. I am handicapped by being at a greater

distance, yet I've logged 38 Californians as far as 2400 to 2500 miles, or 64 west coast stations. He beats me by two Mexicans, but I've got 25 Cubans and 44 Canadians. DX is a game where no matter how far your log goes it's nearly always possible to find someone just a bit better."

#### Best Even in Australia

Richard D. Caddell, Pittsburgh, Pa., wrote to Australia recently to find out something he already knew. Says he: "I wrote to Radio Station 3GL, Geelong, Australia, a couple of months ago for a verification and in my letter to them I asked 3GL if they could suggest a good log-book containing the radio stations in Australia and New Zealand. Well, I received my verification from 3GL today and Mr. E. J. Haipure, Director, informed me that the best log he knew of was—RADEX." Mr. Caddell has just received a verification of which he is proud—PRAX, Rio de Janeiro, Brazil, 1360 kcs. The Director of that station writes that Caddell is the first person in the U. S. to report PRAX, that is with a correct report of their broadcast. The time on the air for PRAX is as follows: Week days, 10:00 a.m. to 12:00 noon and 8:00 p.m. to 11:00 p.m. Sundays, 10:00 a.m. to 12:00 noon. The time is Brazilian—one hour ahead of EST. All mail should be addressed to S. A. Philips Do Brazil, Caixa Postal No. 954, Rio de Janeiro, Brazil, South America. This makes 30 verifications from South American or European stations which tell Mr. Caddell that he was the first to receive them from the U. S.—some record. Yet radio service men tell him that he is in the worst radio location in Pittsburgh. Nor does Mr. Caddell depend upon the Atlantic for his receptions for he has 12 Japanese verified.

#### 2YA Interferes with WGN!

"I am not surprised that no one answered my inquiry as to a station on 720 kcs.," says R. H. Seidel, 2828 Washington St., Lincoln, Nebr. "At 4:30 a.m. today (April 3rd) I brought that signal up to an audible point and found it to be 2YA at Wellington, New Zealand. The signal has been coming in slightly stronger for the past two or three weeks,

this being the beginning of a short period each spring and summer when the stations from across the Pacific attain their maximum volume in this country. The complete sign-off was as follows: 'Station 2YA. The clock is just striking 10:00 o'clock. Station 2YA, Wellington, is closing down. Good night, everybody.' This announcement was followed by two bars of the British national anthem and the signal disappeared. Listeners in this part of the country with good receivers may expect to pick up these foreign countries at any time for the next few months between 2:00 and 8:00 a.m. CST."



*Irene Taylor, NBC "bluesette" likes chili con carne and other dishes from her southern home. On all the late dance pick-ups from Edgewater Beach Hotel in Chicago. NBC.*

"During a five weeks' period, from February 2nd, I DXed almost night and day with a new Majestic ten-tube super-heterodyne and tuned in 447 stations, including five Australian, 2YA, 1YA; 7 Japs; KGU and KGMB," reports Eugene Martin, 704 S. Green St., Wichita, Kansas. "Reception is much better here than it was in Dallas, where I DXed for five seasons. Although I am farther from Australia here, the Australians come in better, but Japanese reception

is not as good as it was in Dallas, 300 miles farther from Japan. Several radio men have told me that this section of Kansas is a dead spot for radio. If that is so, I would certainly like to DX in a live spot for a few days."

#### Only a 1926 Battery Set!

Of course a new, modern, steen-tube extra superheterodyne will bring them in but that that it isn't at all necessary is shown by the record of Earl R. Roberts, 712 South 9th St., Cambridge, Ohio, who has a six-year-old battery set with loop and outside aerials. Mr. Roberts reports that his log now stands at 785 stations with all but 48 U. S. stations as shown by the Index by Frequencies. The 785 includes 93 calls now deleted as well as the police and airport stations he has been able to pick up on his broadcast receiver. So cheer up, owners of last year's models, the signals of some 800 stations are right there in your room. All you have to do is tune them in

"Your article in the March RADEX on 'What Do You Mean by DX?' was just what I've been looking for and it's fine," writes R. B. Hemphill, 4931 Polk St., Chicago, Ill. "I've just got the DX fever and I have been trying to get some such information as you give in your article. Most radio books seem to assume that all their readers are old-timers and do not seem to consider newcomers. Congratulations on your foresight. At present I have 45 verifications from 27 states, so you can see I am just a starter in comparison with some of those who claim over 400 stations."

"You listed WPAW as deleted," points out Ray La Rocque, 135 Highland St., Worcester, Mass., "but I have been hearing it regularly operating in synchronism with WPRO. The announcement is WPRO-WPAW in Providence." Mr. La Rocque received the RADEX special DX program from 10BQ and thinks there should be more of these special programs. His log now stands at 490 from nine countries. He asks information regarding VE9LP which is evidently the test call of CKAC and would like to know their power. WSX in Boston has a number of frequencies, Mr. La Rocque, 230 and 266 on long waves and 3340,

3370, 5925 and 5940 on short waves. You will have to figure out your 795 harmonic from these.

Luther E. Grim, 505 S. Main St., Red Lion, Pa., was a "doubting Thomas" when he bought his first RADEX and read of some of the DX records. "Those that said they had three and four hundred stations were stretching the truth, to my mind, while those who claimed five, six, and seven hundred were out-and-out liars as I saw it," confesses Mr. Grim. "So I thought I would see just what could be done. The first week I logged 109 stations. Now my log is 359 stations in 46 states, Canada, Cuba and Mexico." And Luther is still going strong.

#### Found a Gold Mine

Maynard Fischer, 44 Barry Place, Buffalo, N. Y., found his first RADEX on the street, picked it up, took it home, used it on his set and became an enthusiastic DXer. He was an early member of the Buffalo Evening News DX Club and did much to bring about the almost universal use of RADEX among the members of that club. It might be a good idea for us to travel around the country dropping copies of this magazine on the streets! Mr. Fischer has a five-tube Echophone, not a powerful set, but even so has a log of 362 stations with 305 verified.

#### Those RADEX Specials

Thomas Brown, Manager, Station 10BQ, Brantford, Ont., writes as follows: "You will no doubt be pleased to hear that we had a successful broadcast Saturday morning, March 19th, on our DX courtesy program for readers of RADEX. We received many reports from several states, including one from California and one from New Brunswick. By the way, this is our second report from California this winter. Not too bad for 'the little station on the hill,' a 15-watter. We wish to express our sincere thanks to the many readers of RADEX who sent in reports. Some of the letters we received were wonderful. Accept our thanks for your splendid cooperation on this DX program."

"I surely got a kick out of the program from 10BQ, Brantford, Ont., which you put on for the readers of RADEX,"

comments Bob Brown, 413 30th St., McKeesport, Pa., and adds: "I have verifications from 44 states, 9 Mexicans, 7 Cubans, 8 Canadians, and WKAQ, Porto Rico. I have around 175 Ekko stamps, some beauties too. I am going to frame them on a heavy white blot paper mat with narrow black ebony frame later on. I expect with the help of RADEX to complete the states. Every stamp in the picture will carry some little bit of history with it. I think this will make a picture that money can't buy. What do you think of my idea?"

"Thanks to your kind information I was able to pick up and get a verification from station KXRO in Aberdeen, Wash.," says Rudolph Kure, 3633 Vine St., Cincinnati, Ohio, "I will welcome heartily your promise to arrange similar programs in the future. That would be swell. You are a real friend to radio fans. There is not even the very slightest doubt about it."

"From January 1st of this year to April 1st I have been successful in logging 375 stations with my RCA Victor Superette No. 7, 8-tube set. I have over 200 verifications. One from 10BQ on the special RADEX DX that I prize highly," writes Arthur G. Turner, 36 Arlington Ave., Beverly, Mass.

#### He Got Them Both

"I got the RADEX DX program from KXRO, Aberdeen, Wash., also 10BQ, Brantford," says Ray E. Everly, 102 W. Washington, St., Newton, Ill. "It's a fine thing. Let's have more RADEX programs on the hard to get 'wee' ones. They are reliable tests."

Edward Coristine, 5 Rosemount Ave., Montreal, Canada, has received his verification from KXRO covering his reception of the special RADEX program on March 13th, and hopes there will be other of these specials in the future.

"I pulled in the 10BQ program on March 19th," reports H. Burstrom, address not given; "thanks to RADEX or I would never have gotten them."

"Every morning when I am doing any DX work at all, I hear a station on 580 kcs. which plays phonograph records," says Wm. Ellis, P. O. Box 13, Hughson, Calif. "This station comes in weak but



*Dorothea James, Mistress of Ceremonies, Movie Star Revue, CBS Tuesdays and Thursdays, 5:45 p.m. EDT.*

clear and the music is louder than the announcer. I hear them from 3:30 to 4:00 a.m. PST. At 4:00 WIBW comes on and drowns it out. Is this WOBW or WSAZ? Which one is on 3:30 to 4:00 a.m. PST? I have both the filtered aerial and an earphone adapter," adds Mr. Ellis. "With the phones I am enabled to have many pleasant hours of radio while the other members of the family are asleep. As for the filtered aerial, well Japan is like a local with no noise nor distortion."

#### Here's Wyoming

KDFN, 1210, Casper, Wyoming, about which many fans have inquired, tests every Tuesday from 3:05 to 3:15 a.m. EST according to information from Ian Murdoch, 17 Main St., West, Grimsby, Ontario, who submits two queries of his own: "March 9th, on 1310 kcs. at 2:25 to 2:30 a.m. EST I heard a station which had its program cut quite frequently. I thought I picked up KGEZ. Did I get them on that date? On March 1st, on 1320 kcs., at 3:22 to 3:32 a.m. EST I heard the recording 'I Promise You.' KID is supposed to sign off at 2:00 a.m. EST, so did I by any chance get KGMB at Honolulu?"

### From Porto Rico

"Since writing you last my log has grown a little bit," writes Benigno Contreras, Box 74, Marina Station, Mayaguez, Porto Rico. "Now I have 217 stations, with 115 verified. This season I added three good ones to my log. They are KPCB, Seattle, Wash., KG CX, Wolf Point, Mont., and KGFJ, Los Angeles. All three are verified. Outside of the broadcast band I have W3XX, W3XJ, Silver Spring, Md.; W5XA, and KGCY, Shreveport, La. The first two are television stations; the last one is a police broadcaster. Static has been very bothersome, as usual.

"At the present time I have 702 stations logged, with 670 verified and the rest to come," writes Milton P. Christa, 18092 Fairfield Ave., Detroit, Mich. "I have every station in twelve states, including Georgia, Louisiana, Nebraska, Nevada, Utah, North Carolina, Wyoming, Connecticut, Michigan, etc., and have five verifications or more from 34 states. I have no technical knowledge of radio other than knowing how to tune them in, with one hand on the dial and RADEX in the other hand. I have never used headphones and every station naturally was heard on the loudspeaker."

"The Round the World DX Club of Los Angeles has a weekly broadcast over KGER, Long Beach, Calif., 1360 kcs.,

every Friday commencing at 10:00 p.m. PST. At that time DX tips on both broadcast and short-wave bands are read with musical numbers interspersed," is the information from Stuart Walmsley, 1641 West 60th St., Los Angeles, Recording Secretary of the Club.

"Have had my Waverly five-tube set for the past ten months," reports Julius Kleinman, 1494 Brook Ave., Bronx, N. Y., "and have succeeded in pulling in nearly 350 stations, with the aid of a very novel aerial. Will be very glad to pass along this information if your readers would enclose a stamped addressed envelope. This aerial has aided me in bringing in police calls on the receiver from Ingram, Mich."

### A Heavy Date

"Those DXers who failed to listen in on the mornings of March 19th and 20th missed an excellent opportunity to add many stations to their logs," remarks Stanely H. Bond, Keyser, W. Va. "Some of the stations that were on were: WIAS, WRBQ, KRKD, WHAZ, WIBX, KFOR, WPCH, KWLC, 10BQ, 10AK, WORK, KFVI, WEDC, WBOW, WMBC, WBAA. On the programs of 10BQ and 10AK, it was announced that they were for the benefit of readers of RADEX."

"Just received a verification from

## INSURE YOUR RADIO ENJOYMENT

SEND THIS BLANK TODAY

The Radex Press,  
5005 Euclid Avenue,  
Cleveland, Ohio.

Enclosed find \$..... for which send me postpaid my choice of your offers as checked below:

- |                                                                                                              |        |
|--------------------------------------------------------------------------------------------------------------|--------|
| <input type="checkbox"/> One radio map of North America.....                                                 | 25c    |
| <input type="checkbox"/> One copy of the next RADEX.....                                                     | 25c    |
| <input type="checkbox"/> Trial subscription, next five issues of RADEX.....                                  | \$1.00 |
| <input type="checkbox"/> One year's subscription to RADEX, 10 issues, and Radio Map free.....                | 1.75   |
| <input type="checkbox"/> Two subscriptions to RADEX with one leatherette cover and Radio Map, both free..... | 3.50   |
| <input type="checkbox"/> One two-year subscription with leatherette cover and Radio map, both free.....      | 3.50   |
| <input type="checkbox"/> Leatherette Cover.....                                                              | .50    |

Write Name Plainly.....

Street and Number.....

City and State.....



W6XI, Bolinas, Calif., on short-wave. This on a three-tube home-made battery set, at 6:30 p.m. I would like to know if anyone has ever received a verification from WODA, Paterson, N. J. Can anyone tell me when to DX for WNBW, Carbondale, Pa.?" inquires John M. Lennon, 122 Linden St., Camden, N. J.

"I have a log of which I am very proud," boasts Geo. T. Hudson, 2545 99th St., East Elmhurst, N. Y. "566 broadcast stations logged; 214 amateur stations (from all nine districts); 41 U. S. short-wave stations; 43 police stations; 41 short-wave stations from 21 countries. I use a G. E. Super and Baird short-wave converter."

#### Another Battery Record

"Speaking of records, how is this for a six-tube battery set (Crosley 6-60)?" asks Blaine Menth, 1003 E. Union Ave., Olympia, Wash. "WJTL, 100 watts, verified; KMAC, 100 watts, and WGL, 100 watts, both verified. I have a total of 250 stations and would like to find out if anyone else in Washington has that many."

James L. Goldwater, Adams Hall, University of Wisconsin, reports that he had logged 27 of the stations on the 1500 channel, a real record for 100 watters. He has had 44 out of the 50 on 1310. He has been helped greatly by the frequency checks of the past few weeks, thus catching stations he would otherwise have had great difficulty in ever getting.

"I have been DXing since February 11, 1923," writes Frank S. Macolly, 4408 Mitchell St., Roxborough, Philadelphia. "I have heard 764 stations with over 600 verified with either letters, cards or Ekko stamps. I now have over 600 stamps. My present set is a Bosch seven-tube using no ground. Would be glad to hear from others."

Karl J. Halpern, 1435 Coney Island Ave., Brooklyn, N. Y., reports his foreign catches for this season as follows: HIX, HRB, LR3, 1ZB, VPN, 2ZI, 6ML, 4BC, JOPK, 3YA, 2ZF and 2VE. The New Zealand stations 2ZI and 2ZF advise Mr. Halpern that he has the long distance record in hearing their stations.

"Without RADEX I would be lost as far as DXing is concerned," confesses

Charles Rowland, 23 Myrtle Drive, Pontiac, Mich. "I have logged 480 stations since October of this year. Almost all my good catches are verified."

"Pulled in HIX, Santo Domingo, March 13th, on their special test DX program for the Newark News Radio Club. Came in fine," reports Philip R. Nichols, P. O. Box 82, East Hartford, Conn.

"Three months ago I didn't know what DX meant; then I got a RADEX. To date I have brought in 344 stations on my 11-tube Philco." This from Howard J. Sites, 114 Chestnut St., Covington, Va.

Only 23 stations east of the Mississippi left unverified, is the boast of Harry C. Rose, 140 Overlook Ave., Boonton, N. J., who says he has verified 78 percent of all the active stations in the U. S., or a grand total logged of 658.

"In the past seven months I have logged 301 U. S. stations, and several in Canada, Mexico and Cuba," reports W. H. Lewis, Y.M.C.A., Ft. Leavenworth, Kansas. "I think my best catches are WFEA, WWRL, CJOR, KPQ and KRKD, all verified."

Charles F. Kyle, 392 Preble St., South Portland, Maine, now has 439 for a total in his log. He would like to know the best time to get Nevada, Wyoming and New Mexico.



*Petite Dorothy Brent sang one song as a Chase & Sanborn guest and got a regular job. Will soon be heard on regular weekly program.*

"On February 21, 1932, I brought in 18 new stations," reports Louis Alexander, Jr., 10 So. Ridgewood Road, South Orange, N. J. "I now have a grand total of 301."

#### Some DX Targets

A letter from WKBZ, Ludington, Mich., says they will broadcast every Sunday morning from 2:00 to 3:00 a.m. EST during May, reports A. J. Parfitt, 1933 East 69th St., Cleveland, Ohio, who also has a letter from NAA saying they broadcast on 690 kcs. a weather report at 10:10 a.m., 3:45 p.m. and 10:00 p.m. EST.

"Here is a tip for some fans who have not had this station yet," suggests Louis Rewald, 483 Wilmot Ave., Burlington, Wis. "KDFN, Casper, Wyo., is on the air every Tuesday morning from 2:05 to 2:15 CST, with a short test."

WIBX, at Utica, sends out a post card signed "The Old Tom Cat from WIBX," which says: "The Tom Cat program goes on the air every weekday morning at 4:00 a.m. (EST)." This program continues until local sunrise.

CMBT, Havana, gives a DX program every Sunday morning from 1:00 to 3:00 a.m. EST on 790 kcs., reports Chas. F. Brown, 1 Rock Ave., Worcester, Mass.

"I see that 1RO, Rome, is still listed as 7,500 watts," points out Eugene Martin, 704 S. Green St., Wichita, Kans. "I wrote to 1RO last October and asked them the power of their station and they replied '75,000 watts' which corroborated information I already had. So if 1RO is 75,000 watts every DXer should know it."

From Richard E. Williams, 607 Main St., Dickson City, Pa. "Tell the Transcontinental DX Club that I wrote WODA February 14th and received a very nice card from them on February 16th." So it goes; stations that are one fan's poison are another fan's meat.

Arlie W. Crabbe, 33 Brehl Ave., Columbus, Ohio, had his own reception blanks printed and finds them a big help in getting verifications.

A cry for help comes from Harlan W. Newell, 1629 Centre St., Newton Highlands, Mass. "A station heard February 25th on approximately 1410 at 1:00 a.m.

EST. From 1:00 to 1:10 world wide news flashes were broadcast. At 1:10 a program from the — Hotel by Anson Weeks and his orchestra was introduced. The call sounded like KOIC. Thanks a lot."

Oliver W. Todd, 1619 N. Conestoga St., Philadelphia, Pa., would like to hear from DXers, particularly broadcast band fans in Great Britain, who receive American stations often. Will our readers in the United Kingdom write Mr. Todd?

"With my Atwater Kent 60 I have logged 486 stations," reports I. B. Stewart, R. R. 14, Box 350, Indianapolis, Ind. "I have all states but Rhode Island and Wyoming. When can I catch KDFN?"

Elmore Bostwick, 31 West 12th St., New York City, heard a station testing at 4:00 p.m. March 14th. They were counting, 1-2-3-4, in German. Did anyone else catch this one?

L. Howard Donaghay, 222 Irving Ave., Bridgeton, N. J., thinks it would be a fine thing to form a correspondence club of DXers, pairing up those who want to write about some particular set or in some certain state or portion of the country. He states he will undertake this job and asks DXers to write to "The DX Listeners Correspondence Club, 222 Irving Ave., Bridgeton, N. J."

#### Correspondence Wanted

Glenn Anderson, 5640 South Jay St., Tacoma, Wash.

James P. Coristine, 5 Rosemount Ave., Westmount, Quebec.

Wm. Ellis, P. O. Box 13, Hughson, Calif.  
Reginald Ogan, 1005 Star Pine Road, Carpinteria, Calif.

Louis Alexander, Jr., 10 South Ridgewood Road, South Orange, N. J.

Ian Murdoch, 17 Main St., W., Grimsby, Ontario.

Thomas Welch, R. R. 3, Box 54, Ottumwa, Iowa.

Joe H. Ziglinsky, 37 River Ave., Natrona, Pa.

H. A. Whittier, R. F. D. 147, Mansfield, Mass.

The Short Wave World Stations will appear in June issue.

## The Problem of Hum

*(Continued from page 2)*

replacement of this troublesome unit is the only remedy. Such tests are best made by experienced service men who have the proper meters and instruments for making a quick examination.

Open ground leads from the cores and cases of the power transformers will cause hum. Condensers that are too small or imperfectly constructed produce an inherent hum in the receiver, but which should be noticed when the set is purchased.

A defective rectifier tube will produce serious hum. The first part of the test should embrace the substitution of the questionable rectifier with a good tube. Replacement is the only remedy if the hum is found to be due to this cause.

### Faulty Eliminators

The rectifying units in "A" and "B" eliminators frequently cause hum in the set. Failure of the filter choke coils and filter condensers creates a hum just as much as similar trouble in the self contained unit of an a. c. broadcast receiver. Trouble can always be looked for in the voltage divider section; where a number of resistances are connected between the negative "B" and the maximum "B" voltage output, so as to provide the various plate voltages. Also examine the associated shunt filter-condensers.

Frequently the choke coils of the power unit become short circuited—not in the coil itself—but between the terminals so that the coil is not in the circuit. This can be easily tested.

Besides the hum in defective tubes, other causes may be found in the filament circuits. And these are rather commonplace. For instance, many sets have a shunt resistance across the filament of the tube, and a center connection that is grounded through another resistance. If this resistor is incorrectly adjusted, has poor electrical contacts, or the grounded resistor is broken or loosely attached, a serious hum will develop. Still again, across the secondary coil supplying the raw alternating current to the tube filaments, there is a shunt resistance which may be defective,

or the center tap from the secondary that is grounded through a resistance may be open. A grounding of a filament at either side will cause noticeable hum. All of these causes produce an annoying hum in the filament circuits.

In the grid circuits hum may be due to open bypass condensers, insufficient grid bias voltage, open secondary coil windings leading to tube grids, grounded radio and audio transformer secondaries, and pickup from adjacent a. c. circuits.

In the plate circuits hum will come from low plate voltage, open primary coil windings, induction from other a. c. sources, and poorly functioning "B" eliminators.

External hum can be reduced by inserting a small filter unit in the a. c. cord leading to the radio power transformer. This worthy device also removes most of the power line static and other noises which are seriously amplified after entering the broadcast receiver.

---

## Ann Leaf at the Organ

*(Continued from page 4)*

a pianist. Then her family moved to Los Angeles and she began to consider finances. Playing the organ in a theatre was a good job, but managers were prejudiced against women. Just about that time too every young woman in Los Angeles was determined to become an organist. Ann could not find any place to practice unless she went to the churches at six in the morning.

(If there is one thing that terrifies Ann it is a big building, particularly an empty one. The Gothic postoffice in Omaha used to send chills down her spine. So you can imagine the effect of an empty church at dawn and a little girl climbing alone to the organ loft to practice.)

But she went to work in the first theatre into which she ventured. Her salary was raised five dollars at the end of the first week. After that she progressed steadily to the two largest theatres in Los Angeles, the Paramount Publix and the Fox West Coast, before coming to New York.

"How do you get such a volume of tone from your instrument?" I asked.

Ann doubled up her fist, bent an elbow and squeezed the hard muscles of her forearm.

"It takes muscle and I have it," she laughed.

Ann adores her sister, Esther, who also broadcasts now and again, her brother Maury, who is a musician and inventor, and Ben, who is not a professional. Her greatest ambition is to live in Los Angeles and have unlimited leisure to paint, travel and write. Ann is a true daughter of the sun and is never so happy as when she is running down a long stretch of white sandy beach or hitting the ball on golf course or tennis court.

And she reads Wasserman and Balzac in large dusty volumes almost as tall as she is, not forgetting, of course, the smart magazines relating to Broadway.

Her greatest thrill on the air came when she played "Mother's Marriage Music" as Mrs. Leaf was leaving Omaha for Los Angeles. Ann doesn't know the name of the selection but it was her lullaby as a child.

You'd like Ann Leaf as much as you do her music.

You will find Ann's picture on the front cover. It will make you like her music more than ever.

## When Things Go Awry

*(Continued from page 10)*

tute the -01A tubes with -30s, and the -71A power tube with a -31. Remove the small 1-ohm resistance between the plus A and tube filaments of the last three tubes and replace with a length of wire, as this resistance must be removed from the circuit. Connect a two-volt "Air-Cell" battery to the two A battery terminals. Or two dry cells in series may be used if an additional 15 ohm rheostat is connected in series and adjusted so that exactly two volts is applied across the sockets when all the tubes are in place. Screen grid tubes cannot be used. You may need less negative C battery on the first audio tube, but more ( $22\frac{1}{2}$ ) volts on the -31 tube instead of the -9 volts now being furnished the present -71A tube.

## B Eliminator Causes Hum

*My Philco "B" eliminator seems to cause a loud hum in my radio set. Can this be true, and if so, how can I correct the trouble?*

The resistances in the eliminator, both the fixed and adjustable, frequently are the source of such trouble. They should be tested and replaced if necessary. Next examine the choke coils and condensers in the filter portion of the power pack. There may be breakdowns or short circuits through the coils. The special Philcotron cells, or electrolytic units may require replacing. The material composing the internal parts is subject to trouble. When the little jars are replaced they quickly rejuvenate the weakened eliminator and reduce the hum. See that the electrolyte comes well above the ends of the electrodes in the jars.

## Improving Volume Control

*Can I improve on the volume control of my Grimes six-tube receiver?*

The several models of Grimes "Inverse Duplex" receivers use a simple rheostat in series with the filaments of all the tubes. It controls the volume by regulating the temperature of the filaments. This is a very poor method of volume control, but is one that was used on all of the older sets. The best thing to do is to set the rheostat permanently at a position that will allow the proper filament voltage to be applied across the terminals of the sockets as measured by a voltmeter with all the tubes in place. Then place a potentiometer across the C battery and vary the grid bias of the first audio tube for volume.

## Improper Volume Control

*The volume control on my set does not increase the signal strength after it has been turned beyond the midway position. Why does it reach its maximum with only a half turn?*

Some controls just turn so far and then reach their full operating resistance. After that point has been reached the change of resistance cannot increase the volume of the receiver for it has already reached its maximum. Perhaps the maker has not put in a control of the proper resistance having a uniform range of

increase throughout its entire length of variation.

### Changing Loud Speakers

*Can I use the speaker from an RCA model 46 outfit on a new Midwest set instead of the speaker that came with the latter set?*

The RCA speaker has four wires leading to the audio amplifier unit. Two are brown and come from the cone voice coil to connect to the two red and green wires that go to the secondary of the output push-pull transformer. Two other wires from the speaker come from the field coil of the unit. The Midwest speaker has a five-wire arrangement, and while some of them are similar to the RCA four-wire unit the former speaker cannot be substituted for the latter, or vice versa, without a considerable change in the wiring of the set in order to take care of the fifth wire built into the Midwest circuit and speaker arrangement.

### Short Wave Converter

*Do you believe that any of the short-wave converters mentioned in the article in the March issue of RADEX will operate with my Edison model C2 tuned radio frequency receiver?*

We see no reason why a good converter should not work well with your set for it is rather sensitive. It should be remembered that a converter does nothing else but take the incoming short-wave signals (which are usually very weak) and convert them by the heterodyne principle to wave lengths that fit the tuning limits of the broadcast receiver. The more powerful the receiver the better the weak signals come through in an audible manner.

The broadcast receiver is adjusted to 550 kilocycles, which is the high end of the dial, and all tuning is done by the converter. If the receiver is not very selective there is apt to be a background of talk or music which will interfere with the weak short-wave signals. However, you should be able to get nearby short-wave stations with a high degree of loudness, and perhaps a number of weaker and foreign ones. Enough, at any rate, to provide quite some short-wave entertainment.

### Changing First Audio Tube to a -27

*I am thinking of changing the first audio tube, a -26, over to a -27 in my model 86 Philco receiver. I have no diagram, so will you advise me with the necessary details.*

A diagram of the audio portion of the circuit has been mailed to you. There should be no difficulty in changing the tube, but we do not think the results will be very remarkable. The -27, of course, is a good detector, and usually is used as such. The -26 is strictly an amplifier tube. It will be necessary to install a five-prong socket, change the filament voltage connections, and connect the cathode of the -27 to the circuit. Use -4.5 volts on the grid of the -27 with 90 volts on the plate. The cathode should preferably be connected to the movable arm of a 50 ohm potentiometer connected across the power secondary of the transformer supplying the filament heater voltage of 2.5 volts. This arrangement may help to reduce hum and balance the circuit. This should prove an interesting experiment and may give you a better control over amplification with a good tone adjustent, but little, if any, additional volume.

### Local Station in Background

*I have a Dayton short-wave adapter, but when I use it a local station—WCAE—is heard faintly in the background. Why is this, and how can I tune it out?*

Your experience is not unusual. Short-wave adapters plug into a tube socket of the regular broadcast set and do not use the radio frequency tuning circuit of the receiver. The adapter has, in most cases, two tubes, which represent the entire tuning circuit, and the audio amplifier of the large set is used to intensify the short-wave signals. Therefore the short-wave adapter is not as selective in tuning out nearby powerful stations as the broadcast receiver.

You might try using a short aerial on the adapter, and the regular aerial for the broadcast set. Also, a very small fixed condenser in series with the aerial will not interfere with short-wave reception, but will tend to keep out the longer wave signals. Such a condenser should be about .0001 mfd. capacity.

## The Editor's Mail

(Continued from page 14)

Italy and South America. He says he had a world of "dope" on short-wave stations which he would be glad to exchange with other DXers. He asks for the millenium, however, when he says: "I would like to see the question settled as to aerials and grounds, filtered aerials, umbrella type and plain straight line." As we have said before, there is no "best" aerial or ground except as it is found for a particular set in a particular location by constant experiment.

For the information of Mr. Durand, of Wheaton, Ill., and others, Clement Van Velsor, 1033 Sanford Ave., Irvington, N. J., reports that WWAC is an aeronautical station sending out aviation reports, located in Nashville, Tenn. For another reader, Mr. Van Velsor states that WFK is in Frankfort, Mich., owned by the Wabash Radio Corp. Mr. Van Velsor has a Lincoln SW-22 All-Wave Super. It has eleven tubes, one dial, a three-gang condenser, a low-high power switch and a trimmer condenser to bring each signal to its peak. It has no plug-in coils. He describes the selectivity as being razor-edged. Broadcast band reception is excellent with great volume. He states that European stations with the exception of G5SW roar in."

### A New One in Mexico

From Manuel Angel Fernandez, Manager, Cia Difusora Mexicana, Mexico City, comes this interesting information: "It is our pleasure to advise you that our broadcasting station XETF 'La Voz de Mexico' started operating at this city March 9th, on a frequency of 610 kcys., and a power of 2500 watts. The equipment is of the Western Electric type and we hope that our signal is clearly heard in your country. This company also owns XETF 'La Voz de Veracruz' operating at 630 kcys. and 500 watts antenna power. Please also take notice that the slogan 'La Voz de Mexico' or the translation 'The Voice of Mexico' is registered in the trade-mark and patent office of this country and is owned by this company."

"I believe I may be able to clear up the mystery relative to the station in Detroit known as GZ7," informs Frank Wilkes, 25 Maurice Ave., Ossining, N. Y. "This is one of the many National Guard transmitters scattered throughout the United States. These stations are not subject to the F. R. C. and hence may use any frequency they choose. Their calls consist of any two letters and then a number, the number, I suppose, designates the district in which the station is located. A good number of these stations use frequencies of about 630 kcys."

### Some New Ones Coming?

Louis Alexander, Jr., 10 South Ridgewood Road, South Orange, N. J., clips the following prophecies of new stations from the Club notes of the Newark News: WBRL, Tilton, N. J., 500 watts, 1430 kcys., will probably share time with WFEA. WCOT, Providence, R. I., 100 watts, 1320 kcys., will probably share time with WORC. WINR, Bay Shore, L. I., 100 watts, 1210 kcys., will probably share time with WCOH, etc. WMBL, Lakeland, Fla., 100 watts, 1310 kcys. WQBC, Weirton, W. Va., 60 watts, 1420 kcys. We have noted no construction permits by the Commission for any of the above stations.

"I have a complaint to lodge against the Mexican and Cuban stations," says F. Rouse, 34 Cuyler Ave., Albany, N. Y. "I never hear some of them announce in English." (!) This seems to be a common fault with stations in other countries, the Japanese particularly. We'll have to take it up with the League of Nations. Mr. Rouse also heard one station on two waves—WSM on 1070 and 1460. Must have been harmonics, of course, but it is pretty hard to figure this out.

"While DXing last night or rather early this morning (March 13th) I picked up WBBR, Brooklyn, on 1300 kcys., their assigned frequency, and then picked them up again at 3:30 a.m. on 1030 kcys. Is it possible for a station to broadcast on two frequencies at the same time?" queries Willard K. Jennings, 45 Thorn St., Rahway, N. J.

The copy for the next issue of each RADEX goes to the printer on the 5th

of the preceding month and it is necessary for us to have data regarding special DX programs by that date. Unfortunately last month information regarding a number of specials came to us too late to be included in the April issue. Among these were special DX programs, some of them to be dedicated to readers of RADEX, from CMGF, Matanzas, Cuba; CHGS, Summerside, P. E. I.; WJTL, Oglethorpe University, Ga., and several others.

#### Vancouverites Moving

The Vancouver stations on 730 have moved to 725 in an effort to get away from interference by XER, so Richard D. Caddell, 605 Ridge Ave., N. S., Pittsburgh, Pa., reports. Mr. Caddell asks: "I wonder if any others have heard WYPC, The Voice of Muscle Shoals, located at Sheffield, Ala., evidently an unlicensed station operated by a negro preacher, Rev. L. W. Michael. This station has finally been put off the air by the authorities."

"I notice an error in RADEX," points out D. G. Powers (no address given), "You list WHDH, Boston, as daytime only but I have received this station up to 8:00 p.m. EST three or four times." Many daytime stations are permitted to remain on the air until sunset in the city in which is located the principal night station on that wave. Thus WHDH may remain on the air until sunset in Denver. Mr. Powers asks what Columbia station broadcasts on 830 kcs. None to our knowledge.

#### WBOQ is Moving Around

What is WBOQ doing on 800 kcs.? A number of readers report hearing it at that point on tests. A letter to WABC about this matter has brought no reply. We have seen nothing in Federal Commission reports authorizing tests on this frequency. Who can give us the inside of this? Robert R. Rawstron, Claremont, N. H., says: "I picked him up this morning on 790 kcs. Oddly enough his transcriptions were on 790 kcs. but when the records stopped the wave switched to 800 kcs. What's the answer? I heard the same records and announcer testing WABC on 860 kcs. after WBOQ signed off." Mr. Rawstron got stuck for a long

while on the 699 peg but finally the 700th station came in and then got 701, WSAJ, Grove City, Pa., for good measure.

"On page 19 of your February issue, I note some comment about WPCB being heard sometimes on 570 keys.," says Donald S. Miles, 378 Stuyvesant Ave., Irvington, N. J. "May I say that since WPCB and WMCA are located in the same building, the WMCA Building, and since they are operated by the same company, there may be some inductive or capacitive effects between lines from nearby studios, as any studio may be used by either station."

For several years we carried a phantom station at Toronto, Ont., CKOW on 840 kcs., but deleted it when advised that the call had never been used. Now John T. Hill, 1432 Nott St., Schenectady, N. Y., writes that he heard this station in March. A new list just received from the Dominion Government does not show it and we ask some of our Toronto readers to let us know definitely if CKOW is now on the air.

#### The Toronto Stations

E. L. Near, 32 Northcliffe Blvd., Toronto 10, Ont., thinks "it is a shame that a pioneer station like CFCA should be moved to such a rotten wave-length as 1120." CFCA probably moved of their own desire and a wave-length that may be "rotten" in one locality may be very good everywhere else.

"On March 17th I heard the announcer say: 'CFCT, Toronto,' whereas RADEX lists this station at Victoria, B. C.," reports Charles Kneer, 94 Maplewood Terrace, Rochester, N. Y. CFCT is certainly in Victoria and none of the Toronto calls sounds like it. How come the Toronto announcement?

On April 1st, CFRB, Toronto, will begin to use 10,000 watts power, says Selwyn A. Adamson, The Canadian Press, Toronto 2, Ont. Also, CKGW, Toronto, will use 10,000 shortly after. A report just received from the Dominion Government still gives the old rating however.

"I have heard CKWX every Sunday on 880 keys.," reports Blaine Menth, 1003 E. Union Ave., Olumpia, Wash.

"They go there to accommodate CKCD for their church service. CKWX signs off at about 1:30 p.m. and reappears later in the evening at their assigned frequency of 730."

"Tell Wm. Armstrong that the station he heard on January 12th at about 3:45 a.m. EST with the Corn Cob program was KGDA, 1370, Mitchell, S. Dak.," suggests Eugene Giglio, R. F. D. 1, Rockville, Conn. Mr. Giglio would like to know from owners of Crosely 1932 Supers what results they have had on distance.

"What do you make of this, Watson?" F. Barker, Jr., 435 So. Marguerita Ave., Alhambra, Calif., writes: "On the night of March 19th, at 11:00 p.m., I heard KFXV and WAGM sign off together, that is the announcer said 'KFXV in Flagstaff, Arizona, and WAGM in Presque Isle, Maine, now signing off.'"

Miss M. Stannard, 522 Sunset Ave., Rockford, Ill., is anxious to identify "The Four Horsemen," an orchestra. "I want to know what time they come on and over what station and if they come direct from Chicago or through a network." No record of this feature on the networks. Who can help Miss Stannard?

"WCGU, Brooklyn, N. Y., is no longer connected with WBBC of the same city," states Mac Plung of Brooklyn. "They have a new transmitter and their studios are located at 47 Flatbush Ave., Extension, Brooklyn, N. Y. They answer all requests for verification promptly."

#### Mexican Correspondent Wanted

Through the kindness of Rolando Martorell, of Matanzas, Cuba, a reader of RADEX, we are enabled to check the accuracy of our Cuban list and make several corrections in this issue. Now if some of our readers in Mexico would offer to perform similar kindly offices in that country, our readers would certainly appreciate it.

Earl Jackson, Sergeant, Q. M. Corps, stationed at Schofield Barracks, Hawaii, writes that he has a General Electric Super and since last July has heard 125 stations "on the mainland" as far east as New York City. He reports that leakage from the 6600-volt power lines

in his locality gives him a lot of interference.

"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." No notice of any official change in power for KFPM. Mr. Carter has now passed the 400 mark on his log.

"The information from R. Rawstron, of Claremont, N. H., regarding the use of the call WABO by WHEC is correct," writes R. Brady, Jr., 47 Eastman Ave., Rochester, N. Y. "I was told by one of the engineers that the call WABO is still in their license and is used for test programs only."

#### Was it W8XAR?

"WHAR is now signing off at exactly 4:10 EST. We have been broadcasting on a frequency of 980 kcs." This announcement was heard at 1:10 PST on the morning of March 8th by A. Colver, 147 Walk Circle, Santa Cruz, Calif., who is anxious to identify his catch. Anybody know of WHAR?

"KWCR in Cedar Rapids, and WIAS in Ottumwa, Iowa, have exchanged their frequencies. KWCR now broadcasts on 1420 kcs. and WIAS on 1310," reports Rudolph Kure, 3633 Vine St., Cincinnati, Ohio. Lacking any official confirmation of this shift, we are continuing the old data, but including these stations in "Heard on Other Waves."

Fred Litwitz, Jr., 2137 Lewis Street, Chicago, is secretary of a new club, the Northern States DX Radio League. L. Cooper, 1818 Nevada St., Muskegon, Mich., is the president.

#### Last Minute Items

WBAA will test May 27th from midnight to 3:00 a.m. CST.

CKWO will take the air on May 31st., 1000 watts on 540.

W8XAR now testing on 980 between 1:00 and 6:00 a.m. EDST.

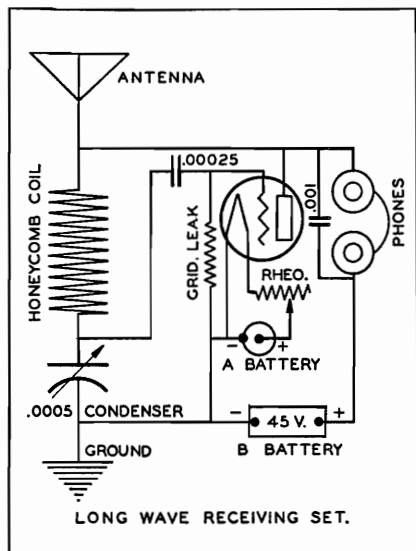
The CNR stations have network broadcast 9:30 p.m. Mondays, probably Eastern Daylight Time.



**T**HE February issue of RADEX told of a long wave receiver that would reach out beyond the normal radio broadcast band—as high as 20,000 meters. The circuit was simple and intended to bring in the long wave (damped) voice, spark, and arc code signals, that are broadcast only from modulated transmitters.

An improved circuit is presented this month. It will tune in also the many great continuous wave (undamped) tube and arc transmitters which are replacing many of the old modulated stations throughout the world.

This circuit is a modification of the old Colpitt's oscillator, and is necessary to make audible the otherwise continuous flow of high radio frequency current that would fail to operate the slowly moving telephone diaphragms. There is but one tuning operation—the variable condenser controlling the local oscillations which produce the slower audio-frequency beat notes. These cause the plate current of the detector tube to vibrate and rise and fall in a periodic manner with the passage of each train of dash and dot code signals. The tuning inductance is a single honeycomb coil. The sizes were given in the March issue of RADEX.



## 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.  
 Evening Melodies, 11:30 p.m., Sunday, C.  
 Gauchos, 11 p.m., Sunday, C.  
 L'Heure Exquise, 10:20 p.m., Sunday, R.  
 Walter Logan, 1:45 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.  
 Toscha Seidel, 9 p.m., Friday, C.  
 Through Opera Glass, 11:30 p.m., Thursday, B.  
 Troika Bells, 12:30 p.m., Sunday, R.  
 Waldorf-Astoria, 6 p.m., Daily, except Sunday, R.

### DANCE BANDS

Ben Bernie, 9 p.m., Tuesday, C.  
 Cab Calloway, 11:45 p.m., Mon. and Thurs., R; 12 mid., Wed. and Fri., B.  
 Lew Conrad, 11:15 p.m., Thursday, R.  
 Countess d'Orsay, 8:30 p.m., Saturday, B.  
 Jack Denny, 9 p.m., Sunday, C; 11:15 p.m., Mon., R.  
 Chas. Dornberger, 11:30 p.m., Tues., R; 11:35 p.m., Fri., B.  
 Eddie Duchin, 12 mid., Sunday, C.  
 Snooks Friedman, 6:30 p.m., Monday and Friday, C.  
 Larry Funk, 12 mid., Sunday, 6:45 p.m., Friday, R.  
 Alex Haas, 11 p.m., Monday, C.  
 Johnnie Hamp, 12 mid., Tues., Thurs., Fri.; 11:30 p.m., Sat., R.  
 Isham Jones, 12 mid., Mon and Fri.; 9:30 p.m., Sat., C.  
 Wayne King, 3 p.m., Sunday; 5:30 p.m., Wed., R.  
 Guy Lombardo, 10 p.m., Mon.; 12 mid., Thurs.; 7:30 and 12 mid., Sat., C.  
 Vincent Lopez, 11:30 p.m., Wed.; 11:15 p.m., Fri., R.  
 Abe Lyman, 8:15 p.m., Tues., Thurs. and Sat., C.  
 Enrie Madriguerra, 11:45 p.m., Saturday, C.  
 Don Redman, 11:45 p.m., Wed. and Fri.; 11 p.m., Sat. C.  
 Buddy Rogers, 12 mid., Mon., Wed. and Sat., R.  
 B. A. Rolfe, 8:30 p.m., Thursday and Friday, B.  
 Noble Sissle, 6:30 p.m., Sun.; 11:45 p.m., Mon. and Tues., C.  
 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, 10 p.m., Monday, C.  
 Clara, Lu and Em, 10:15 a.m. Daily, ex. Sat. and Sun , B.  
 Cuckoos, 5:30 p.m., Saturday, R.  
 Easy Aces, 7:30 p.m., Monday, Wednesday and Friday, C.  
 Gene and Glenn, 8 a.m., Daily, except Sunday, R.  
 Goldbergs, 7:45 p.m., Daily, except Sunday, R.  
 Jones and Hare, 7:45 p.m. and 12:30 a.m., Daily, except Saturday and Sunday, B.  
 Making Movies, 9:45 p.m., Sunday, B.  
 Myrt and Marge, 7 and 10:45 p.m., Daily, except Saturday and Sunday, C.  
 Joe Palooka, 6:45 and 11 p.m., Tues. and Thurs., C.  
 Ray Perkins, 6:30 p.m., Tuesday, B.  
 Reis & 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.  
Tastyeast Jesters, 7:15 p.m., Monday and Saturday, B.  
Ward Wilson, 6:30 p.m., Mon., Wed. and Fri., B.

#### DRAMA

Careless Love, 12:30 p.m., Sunday, B.  
Danger Fighters, 8 p.m., Saturday, B.  
Death Valley Days, 8:30 p.m., Monday, B.  
Eno Crime Club, 9:30 p.m., Tuesday and Wednesday, C.  
First Nighter, 9:30 p.m., Saturday, B.  
Friendship Town, 9 p.m., Friday, B.  
Sherlock Holmes, 9 p.m., Wednesday, B.  
K-7, 6:30 p.m., Sunday, B.  
Rudyard Kipling Stories, 12 mid., Monday, 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.  
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.  
Archer Gibson, 1:45 p.m., Sunday, B.

#### PIANO

Fray-Braggiotti, 9:15 p.m., Saturday, C.  
Ernest Hutcheson, 8 p.m., Sunday, C.  
Lee Sims, 11:30 p.m., Mon., Tues. and Sat., B.  
Twenty Fingers Harmony, 10:45 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.  
Buick Revelers, 9:45 p.m., Sunday, R.  
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, 8 p.m., Sunday, B.  
Eugene Revue, 9 p.m., Monday and Thursday, C.  
Evening in Paris, 9:30 p.m., Monday, C.  
Farm and Home, 1:30 p.m., Daily, except Sunday, B.  
Four Boys and a Girl, 9:30 p.m., Monday, B.  
Jack Frost Melody, 8:30 p.m., Wednesday, B.  
G.E. Circle, 5:30 p.m., Sunday; 12 n. Daily, except Sunday, Monday and Saturday, R.  
Gerardine, 8:45 p.m., Tuesday, C.  
Great Personalities, 9:30 p.m., Tuesday, B.  
H.M.S. Trumpeters, 10 p.m., Thursday, C.  
Hinds Romance, 7:15 p.m., Thursday, B.  
Hollywood Nights, 10:30 p.m., Thursday, B.  
Edna Wallace Hopper, 10 p.m., Sunday, C.  
Iodent Program, 4 p.m., Sunday, R.  
Just Willie, 7:15 p.m., Tuesday, B.  
Lucky Strike, 10 p.m., Tues., Thurs. and Sat., R.  
Maxwell House, 7:15 and 11:15 p.m., Mond., Wed. and Fri., C.  
Musical Fast Freight, 10:15 p.m., Tues.; 9 p.m., Wed., 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.  
Pond's Program, 9:30 p.m., Friday, R.  
Rexall Party, 7:15 p.m., Sunday, R.  
Sampler Orchestra, 10 p.m., Friday, R.  
San Felician Serenade, 9:45 p.m., Mon. and Wed., B.  
Sheaffer Revue, 4:30 p.m., Sunday, B.  
Silver Flute, 1:30 p.m., Sunday, R.  
Simoniz Guardsmen, 5:30 p.m., Sunday, B.  
Sinclair Wiener Minstrels, 9 p.m., Monday, B.  
Society's Playboy, 10:30 p.m., Wednesday, C.  
Songs of Home, 4 p.m., Sunday, B.

Swift Garden, 3:30 p.m., Sunday, B.  
Three Bakers, 7:30 p.m., Sunday, B.  
Club Valspar, 9:30 p.m., Saturday, R.  
Waves of Melody, 10:30 p.m., Monday, B.  
Yardley, 2 p.m., Sunday, B.  
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.  
Frigidairians, 7:15 p.m., Sunday, B.  
Heel Huggers, 8:30 p.m., Tuesday, B.  
Mills Bros., 7:15 p.m., Tuesday and Thursday, C.  
Sylvanians, 7:45 p.m., Sunday, C.

#### RELIGIOUS

Cathedral Hour, 1 p.m., Sunday, C.  
Catholic Hour, 6 p.m., Sunday, R.  
Chicago Knights, 5:30 p.m., Sunday, C.  
Church of the Air, 2:30 p.m., Sunday, C.  
Hymn Sing, 7 p.m., Tuesday, R.  
National Vespers, 5 p.m., Sunday, B.  
National Youth, 3 p.m., Sunday, B.  
Seth Parker, 10:45 p.m., Sunday, R.

#### SINGERS

Belle Baker, 9 p.m., Sunday, C.  
Connie Boswell, 6 p.m., Wed.; 5:45 p.m., Sat., C.  
Boswell Sister, 10:30 p.m., Monday and Thursday, C.  
Russ Columbo, 11:15 p.m., Sunday; 11 p.m., Daily, except Sunday and Wednesday, R.  
Bing Crosby, 6:45 p.m., Mon., Wed. C.  
Vaughn DeLeath, 6:15 p.m., Monday; 9 p.m., Saturday, C.  
Kay Donna, 10:30 p.m., Monday, R.  
Morton Downey, 7:45 and 11:30 p.m., Daily, except Sun., C.  
Ruth Etting, 10 p.m., Wednesday and Saturday, C.  
Jane Froman, 11:35 p.m., Wednesday, B.  
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.  
Elsie Janis, 7:15 p.m., Wednesday and Friday, B.  
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, 7:30 p.m., Sun.; 9:15 p.m., Thurs., C.  
Grace Moore, 9 p.m., Wednesday, R.  
Old Singing Master, 10:15 p.m., Sunday, B.  
Pickens Sister, 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., Wed. and Thurs., 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.  
Dr. S. Parkes Cadman, 3:30 p.m., Sunday, R.  
Cheerio, 8:30 a.m., Daily, except Sunday, R.  
Ely Culbertson, 4:30 p.m., Mon. and Wed.; 8 p.m., Sat., R.  
International Broadcast, 12:30 p.m., Sunday, C.  
Kaltenborn, 6 p.m., Monday and Friday, C.  
Laboratory Experiments, 8 p.m., Saturday, 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.  
Radio in Education, 7:30 p.m., Sat., R.; 8 p.m., Tues., B.  
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.

# WHAT'S ON THE AIR TONIGHT?

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

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

Call	Dial	Call	Dial

Call	Dial	Call	Dial

Call	Dial	Call	Dial

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

## MONDAY

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

R—Gene and Glenn  
WBEN WCAE WCSH WEAF WEEI  
WFBR WFI WGY WIOD WJAR WRC  
WSAI WTAG WTAM WTIC WWJ

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

R—Cheerio  
CFCF CKGW KPRC KTBS WAPI  
WBEN WCAE WCFE WCKY WCSH  
WDAF WEAF WEEI WFBR WFI  
WFLA WGY WHAS WIOD WIS  
WJAR WJAX WJDX WKY WOAI  
WOW WPTF WRC WRVA WSB  
WSM 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 KFYR KOA KOIL KPRC  
KSL KVOO KWK WAPI WBAL  
WBAP WBZA WCKY WDAY WEBC  
WFLA WGAR WHAM WHAS WIBA  
WIOD WIS WJAX WJDX WJR  
WJZ WKY WMC WOAI WPTF  
WREN WRVA WSB WSM WSMB  
WTMJ WWNC

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

B—National Farm and Home Hour  
KDKA KFYR KOA KOIL KPRC  
KSTP KTBS KTHS KVOO KWK  
KYW WAPI WBAL WCKY WDAF  
WDAY WEBC WFLA WGAR WHAM  
WHAS WHO WIBA WIOD WIS WJAX  
WJDX WJR WJZ WKY WMC WOAI  
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  
CFRB WAAB WABC WADC WBCM  
WBRC WBT WCAO WCAU WDAE  
WDBJ WDOD WDRC WDSU WFBL  
WFEA WGR WHP WLAC WLWB  
WMAL WNOX WOKO WORC WOWO  
WPG WQAM WREC WSBT WSFA  
WSPD WTAR WTOC WXYZ

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

R—Ely Culbertson, Bridge  
CFCF CKGW WBEN WCAE WCSH  
WDAF WEAF WEEI WENR WFBR  
WGY WHO WJAR WLIT WOC  
WRC WSAI WTAG WTAM 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 WCSH 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 WBRB  
WBT WCAO WCCO WDAE WDBJ  
WDBO WDOD WDRC WDSU WFBL  
WFEA WFIW WIBW WIP WISN  
WKBH WLAC WLAP WLWB WMAL  
WMT WNOX WOKO WORC WOWO  
WQAM WREC WSBT WSFA WSPD  
WTAQ WTAR WTOC WWVA WHP

R—Waldorf-Astoria Orchestra

KFI KFSD KOA KSD KSL WAPI  
WBEN WCAE WEAF WEEI WFI  
WHAS WJAR WKY WPTF WSM  
WWNC

ED-6:15 p.m., E-5:15, C-4:15, M-3:15

C—Vaughn De Leath  
CFRB KDYL KFH KLRA KLZ  
KMBC KMOX KOH KRLL KSCJ  
KTRH KVOR WAAB WABC WACO  
WBRB WBT WCAO WCCO WDAE  
WDBJ WDBO WDOD WDRC WDSU  
WEAN WFEA WFIW WGR WHP  
WIBW WIP WISN WKBN WLAC  
WLAP WLWB WMT WNOX WOKO  
WORC WOWO WQAM WREC WSBT  
WSFA WSPD WTAQ WTAR WTOC  
WWVA

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

C—Snooks Friedman and Orchestra  
KLRA KMOX WAAB WABC WBRB  
WBT WCAO WDAE WDBJ WDBO  
WDOD WDRC WDSU WEAN WFBL  
WFIW WGR WHEC WHP WKBN  
WLAC WLWB WNOX WOKO WORC  
WOWO WQAM WREC WSBT WSFA  
WSPD WTAR WTOC WXYZ

B—Royal Vagabonds, Ward Wilson

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

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

C—Bing Crosby  
CFRB KFAB KFH KFPY KLRA  
KLZ KMBC KMOX KOH KOIN  
KSCJ KTRH KVOR WAAB WABC  
WACO WBRB WBT WCAH WCAO  
WCCO WDAE WDBJ WDBO WDOD  
WDRC WDSU WEAN WFEA WFIW  
WHEC WHP WIP WISN WKBH  
WKNB WKBW WLAC WLAP WLWB  
WMT WNOX WOKO WORC WOWO  
WQAM WREC WSBT WSFA WSPD  
WTAQ WTAR WTOC WWVA WXYZ

R—June Purcell, Ballads

KOA KSD WCAE WEAF WFI WIOD  
B—Literary Digest, Lowell Thomas  
KDKA WBAL WBZA WHAM WJZ  
WLWB WMAQ

B—Little Orphan Annie

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

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

C—Myrt and Marge  
KMOX WABC WADC WCAO WCAU  
WDRB WEAN WFBL WGR WJAS  
WKRC WMAL WNAC WOKO WSPD  
WWVA

B—Amos 'n' Andy

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

ED-7:15 p.m., E-6:15, C-5:15, M-4:15

C—Maxwell House Tune Blenders  
WABC WCAU WDRB WEAN WGR  
WJAS WNAC 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  
WKRC WNAC WOKO WXYZ WCAU

B—Stebbins Boys

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

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

C—Camel, Morton Downey  
WABC WADC WBIG WBT WCAH  
WCAO WCAU WDAE WDBJ WDRB  
WEAN WFBL WGR WHEC WHK  
WHP WJAS WKBN WKRC WLZ  
WNAC WOKO WORC WQAM WRUF  
WSJS WSPD WTAR WTOC WWVA  
WXYZ

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 WOAI WPTF WREN  
WRVA WSB WSM WSMB WWNC

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

C—Bath Club  
CFRB KMBC KMOX WABC WADC  
WBCM WCAO WCAU WCCO WDRB  
WDSU WEAN WFBL WFBM WGN  
WGR WHK WISN WJAS WKRC  
WMAL WNAC WOKO WSPD WXYZ  
R—Soconyland Sketches  
WBEN WCSH WEAF WEEI WGY  
WJAR WTAG WTIC

**Monday—Continued**

**B — Carnation Contented Program**

CFCF CKGW KDKA KOIL KPRC  
KSTP KVOO KWK WBAL WKCY  
WDAY WEBC WFAA WFLA WHAM  
WHAS WIOD WJAX WJR WJZ WKY  
WLS WMC WOAI WPWF 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 WDRS WEAN WFBL  
WFBM WGN WGR WHK WJAS  
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  
WCAH WCAU WCAU WCCO WFBL  
WFBM WGN WGR WHEC WHK  
WISN WJAS WKRC WLAP WMAL  
WSPD WXYZ

**R — Firestone, Lawrence Tibbett**

CFCF CKGW KPRC KTBS KTHS  
WHEN WCAE WCSH WFAE WEEI  
WFAA WFSB WFLA WGY WHAS  
WIOD WIS WJAR WJAX WJDX  
WKY WLIT WMC WOAI WPTF  
WRB WRVA WSAI WSB WSM  
WSMB WTAG WTAM WTIC WWJ  
WWNC KVOO

**B — Death Valley Days, Drama**

KDKA KFI KFSD KFYR KGHL  
KGO KGW KHQ KOA KOMO KSL  
KSTP KTAH KWK WBAL WBZA  
WKCY WEBC WGAR WHAM WIBA  
WJZ WLS WREN

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

KLZ KMBC KMOX WABC WADC  
WCAU WCAU WCCO WDRS WEAN  
WFBL WGN WGR WHK WJAS  
WKRC WMAL WNAC WOKO WOWO  
WSPD WXYZ

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

KMBC KMOX KRLD WABC WADC  
WCAU WCAU WCCO WDRS WDSU  
WEAN WFBL WFBM WGN WGST  
WHK WJAS WKBW WKRC WMAL  
WNAC WOKO WOWO WREC WSPD  
WXYZ

**R — A. & P. Gypsies**

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

**B — Sinclair Wiener Minstrels**

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

**ED-9:15 p.m., E-8:15, C-7:15, M-6:15**  
**C — Street Singer**

KMBC KMOX WABC WADC WCAO  
WCAU WCCO WDRS WEAN WFBL  
WGN WHK WJAS WKBW WKRC  
WMAL WNAC WOKO WOWO WSPD  
WXYZ

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

KMBC WABC WADC WBT WCAO  
WCAU WEAN WFBL WGN WHEC  
WHK WJAS WKBW WKRC WMAL  
WMT WNAC WOWO WSPD WXYZ  
**R — Parade of the States**

KFI KFYR KGO KGW KHQ KOA  
KOMO KPRC KSD KSL KSTP

WHEN WCAE WCSH WDAF WEAF  
WEEI WFAA WFSB WGY WHAS  
WHO WJAR WJAX WKY WLIT  
WMC WOAI WOC WOW WRC  
WSAI WSB WSM WTAG WTAM  
WTIC WTMJ WWJ  
**B — Four Boys and a Girl**  
KOL WBAL WHAM WJR WJZ  
WREN

**ED-9:45 p.m., E-8:45, C-7:45, M-6:45**  
**B — San Feliciano Serenade**

KDKA KOIL KWER WBAL WGAR  
WHAM WJR WJZ WMAQ WREN

**ED-10:00 p.m., E-9:00, C-8:00, M-7:00**  
**C — Guy Lombardo and Orchestra**

KDYL KFJF KFPY KFRC KHJ  
KLZ KMBC KMOX KOIN KOL  
KRLD KTRH K TSA WABC WADC  
WBBM WCAU WCAU WCCO WDRS  
WEAN WFBL WFBM WHK WJAS  
WKBW WKRC WMAL WNAC WOKO  
WOWO WSPD WXYZ

**R — National Radio Forum**

KFYR KSD KTBS WCSH WDAY  
WEAF WEBC WENR WFLA WFLA  
WIBA WIOD WIS WJAR WJDX  
WMC WRC WRVA WSAI WSB WSM  
WSMB WTAG WTAM WWJ WWNC

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

KDB KDYL KERN KFAB KFBK  
KFH KFJF KFPY KFRC KGB KGMB  
KHJ KLRA KLZ KMBC KMJ KMOX  
KOH KOIN KOL KOY KRLD KSCJ  
KTRH K TSA KVOR KWG WAAB  
WABC WACO WADC WBBM WBCM  
WBIG WBRB WBT WCAH WCAO  
WCAU WCCO WDAE WDBJ WDBO  
WDOD WDRS WDSU WEAN WFBL  
WFBM WFW WGST WHAD WHEC  
WHK WHP WIBW WJAS WKBH  
WKBW WKRC WLAC WLAP WLWB  
WLZB WMAL WMBD WMBG WMT  
WPNX WNOX WOKO WORC WOWO  
WPG WQAM WREC WSPD WTAG  
WTOC WXYZ

**R — Kay Donna, Contralto**

KFYR KSTP KTBS WBEN WCAE  
WCSH WDAF WEAF WENR WFLA  
WGY WHO WIOD WIS WJAR WJDX  
WKY WLIT WOAI WOC WRC WSAI  
WSB WSMB WTAG WWJ WWNC

**B — Waves of Melody**

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**

CFRB KLRA WAAB WABC WADC  
WBRB WBT WCAO WCAU WDAE  
WDBJ WDBO WDOO WDRS WDSU  
WFBL WFEA WFIW WHEC WHP  
WLAC WLWB WMAL WNOX WOKO  
WORC WPG WQAM WREC WTAG  
WTOC

**C — Myrt and Marge**

KDYL KFBK KFPY KFRC KHJ  
KLZ KMBC KMJ KOIN KOL WBBM  
WCCO WLAP WXYZ

**B — McCravy Brothers**

KDKA KOIL WBAL WGAR WHAM  
WJR WJZ WREN

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

KDYL KFAB KFBK KFPY KLRA  
KLZ KMBC KMOX KOH KOL  
KSCJ KTRH KVOR WAAB WABC  
WADC WBCM WBRB WBT WCAH  
WCAU WCCO WDAE WDBJ WDBO  
WDOD WDRS WDSU WEAN WFBL  
WFBM WFEA WFIW WHEC WHK  
WHP WIBW WISN WKBW WKBW  
WLAP WLWB WMAL WMBD WMT  
WNAC WNOX WOKO WOWO WQAM  
WREC WSBT WSPA WSPD WTAG  
WTOC WXYZ WNAK

WLAC WLAP WLWB WMAL WMBD  
WMT WNAX WNOX WOKO WORC  
WOWO WQAM WREC WSBT WSPA  
WSPD WTAG WTOC WXYZ  
**R — Russ Columbo and Orchestra**  
WEAF WFI WIOD WJAR WOV  
WRC WTIC WWJ WWNC

**B — Amos 'n' Andy**

KFI KFSD KGO KGW KHQ KOA  
KOL KOMO KPRC KSL KSTP  
KTHS KWK WBAP WDAF WEBC  
WENR WGAR WHAS WIBA WJDX  
WJR WKY WMAQ WMC WOAI  
WREN WSB WSM WSMB WTMJ

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

KFAB KFH KFJF KLRA KMBC  
KMOX KTRH K TSA WABC WACO  
WBRB WBT WCAO WCCO WDAE  
WDBJ WDBO WDOO WFBL WFIW  
WGN WGST WHK WKRC WLAC  
WLAP WMAL WNOX WOWO WQAM  
WREC WRR WSPD WTAG WTOC  
WXYZ

**R — Jack Denny and Orchestra**

KSD WCAE WEAF WGY WTAM WWJ

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

KDB KDYL KERN KFAB KFBK  
KFH KFJF KFPY KFRC KGB KHJ  
KLRA KLZ KMBC KMJ KMOX KOH  
KOL KOY KSCJ KTRH K TSA  
KWG WACO WBRB WCCO WDOO  
WDSU WFBM WGST WIBW WISN  
WLAC WLAP WMAL WMBD WMT  
WPNX WNOX WOWO WREC WRR  
WGN

**R — Firestone, Lawrence Tibbett**

KFI KFSD KFYR KGHL KGBR KGO  
KGU KGW KHQ KOA KOMO KSL  
KSTP KTAH WDAY WEBC WIBA  
WTMJ

**B — Piano Moods**

KPRC KTBS WBAL WJZ WLW  
WMAQ WREN

**ED-11:45 p.m., E-10:45, C-9:45, M-8:45**  
**C — Noble Sissle and Orchestra**

CFRB KDYL KFAB KFPY KLRA  
KLZ KMBC KOH KOL KRLD KSCJ  
KTRH KVOR WAAB WABC WACO  
WADC WBCM WBRB WBT WCAH  
WCAU WCAU WCCO WDAE WDBJ  
WDBO WDOO WDRS WDSU WEAN  
WFBL WFBM WFEA WFIW WHEC  
WHP WISN WKBH WKBW WKBW  
WLAC WLAP WLWB WMAL WMBD  
WMT WNAX WNOX WOKO WORC  
WOWO WPG WQAM WREC WSBT  
WSPA WSPD WTAG WTOC WXYZ  
**R — Cab Calloway and Orchestra**  
KSD WBEN WCKY WEAF WJAR  
WMAQ WRC WTIC WWJ

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

KDYL KFAB KFH KFPY KLRA  
KLZ KMBC KOH KOL KRLD KSCJ  
KTRH KVOR WABC WACO WADC  
WBBM WBCM WBRB WBT WCAH  
WCAU WCAU WCCO WDAE WDBJ  
WDBO WDOO WDSU WEAN WFBL  
WFBM WFEA WFIW WHEC WHK  
WHP WIBW WISN WKBW WKBW  
WLAP WLWB WMAL WMBD WMT  
WNAC WNOX WOKO WOWO WQAM  
WREC WSBT WSPA WSPD WTAG  
WTOC WXYZ WNAK

**R — Rudyard Kipling's Stories**

KFI KFSD KGO KGW KHQ KOA  
KOMO KSL KTAH

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

WCAE WEAF WEEI WGY WRC

Monday—Continued

ED-12:30 a.m., E-11:30, C-10:30, M-9:30
B — Billy Jones and Ernie Hare
KFI KFSB KGO KGW KHQ KOA
KOMO KSL KTRAR

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 p.m., E-11:00, C-10:00, M-9:00
R — G. E. Circle

KFI KFSB KFYP KGO KGW KHQ
KOA KOMO KPRC KSD KSL KTRAR
KTHS KVOD WAPI WBEN WCAE
WCSH WDAF WDAY WFAE WEBC
WENR WFBR WFLA WGY WEAS
WFO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLIT WMC
WQAI WOC WPTF WRC WRVA
WSAI WSB WSM WSMBWTAG
WTAM WTIC WTMJ WWJ WYXZ

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
R-Waldorf-Astoria, See Monday

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

CFRB KDYL KFH KFLA KLZ
KMBC KOH KRLD KSCJ KTRH
KVOR WAAB WABC WACO WBBM
WBT WCAO WCCO WDAE WDBJ
WDBO WDDO WDRC WDSU WFBL
WFIW WGR WHP WIBW WISN
WKBB WKBN WLAC WLAP WLWB
WMT WNOX WOKO WORC WOWO
WQAM WREC WSBT WSPA WSPD
WTAQ WTRAR WTOC WWVA WXYZ

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

KDYL KFAB KFH KFLA KLZ
KMBC KMOX KOH KSCJ KTRH
KVOR WAAB WABC WACO WBBM
WBRW WCAH WCCO WDAE WDBJ
WDBO WDDO WDRC WDSU WFEA
WFIW WGR WHEC WHP WISN
WKBB WKBN WLAC WLAP WLWB
WMT WNOX WOKO WORC WOWO
WQAM WREC WSBT WSPA WSPD
WTAQ WTRAR WTOC WWVA WXYZ

B — Ray Perkins
KDKA KOA KOIL KPRC KSL
KWK WAPI WBAL WBZA WCKY
WGAR WHAM WHAS WJDX WJZ
WMAQ WMC WQAI WREN WSB
WSM WSMB

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

KFAB KSCJ KTRH WAAB WABC
WADC WBBM WCAH WCAO WCAU
WDAE WDBO WDRC WDSU WEAN
WFBL WGST WHP WISN WJAS
WKWB 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
WFAE WFBR WFI WGY WIOD WIS
WPTF WRC WSAI WTAG WTIC
WWNC

B — Lowell Thomas, See Monday

B — Orphan Annie, See Monday

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

C — Myrt and Marge, See Monday

B — Amos 'n' Andy, See Monday

R — Mid-Week Federation Hymn Sing
KEX KGA KJR KPO KTBS WDAF
WFAE WJAR WJDX WREN WSAI
WTAG WTIC

ED-7:15 p.m., E-6:15, C-5:15, M-4:15
C — Mills Brothers

KMBC KMOX WABC WADC WBBM
WCAO WCAU WDRC WEAN WFBL
WFBM WGR WHK WJAS WKRC
WMAL WNAC WOKO WSPD

B — Just Willie
KDKA KOIL WBZA WENR WJZ
WREN

ED-7:30 p.m., E-6:30, C-5:30, M-4:30
C — Richman Bros., Sylvia Froos

KMBC KMOX WAAB WABC WADC
WBBM WCAH WCAU WCCO WFBL
WFBM WGL WGR WHK WISN
WJAS WKBN WKRC WLAP WSPD
WWVA WXYZ

B — Stebbins Boys, See Monday

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

R — Goldberg, 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 WFAE WJBC WEEI WFI
WGY WEO WWR WOC WOW
WRC WSAI WTAG WTAM WTIC
WWJ WBEN

B — Radio in Education

KECA KFSB KGA KGHL KGIR
KJR KOA KOIL KSL KTRAR KTBS
KVOO KWK KYA WBAL WCKY
WFLA WGAR WIOD WIS WJDX
WJZ WLS WPTF WREN WSMB
WWNC

ED-5:15 p.m., E-7:15, C-6:15, M-5:15
C — Abe Lyman and Orchestra

KMBC KMOX WABC WADC WBCM
WCAH WCAO WCAU WCCO WFBL
WFBM WGN WGR WHEC WHK
WISN WJAS WKBN WKRC WLAP
WMAL WSPD WXYZ

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

R — True Story

KSD KYW WBEN WCSH WDAF
WFAE WEEI WFBR WFI WGY
WIO WJAR WOC WOW WRC WSAI
WTAG WTAM WTIC WWJ

B — Heel Hugger Harmonies

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 — Gerardine, Ed Sullivan

KMBC KMOX WABC WADC WCAO
WCAU WDRC WEAN WFBL WFBM
WGN WGR WHK WJAS WKRC
WMAL WNAC WOWO WSPD WXYZ

B — Sisters of the Skilllet

KDKA KFYP KOIL KPRC KSTP
KTBS KVOO KWK WBAR WBZA
WDAY WEBC WGR WHAM WIBA
WJZ WKY WLS WLW WQAI 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
WBRW WBT WCAO WCAU WCCO

WDRC WDSU WEAN WFBL WGN
WHK WJAS WKWB WKRC WLAC
WMAL WNAC WNAX WOKO WORC
WOWO WSPD WXYZ

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

CFRB KMBC KMOX WABC WADC
WCAO WCAU WDRC WEAN WFBL
WGN WHK WJAS WKWB WKRC
WMAL WNAC WOWO WSPD WXYZ

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

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

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

R — Lucky Strike Dance Hour

KFSB KFYP KGO KGW KHQ
KOA KOMO KPRC KSD KSL KSTP
KTRAR KTBS WAPI WBEN WCAE
WCSH WDAF WDAY WFAE WEBC
WEEI WENR WFLA WFBR WFI
WFLA WGY WEAS WHO WIBA
WIOD WIS WJAR WJAX WJDX
WKY WMC WQAI WOC WPTF
WRC WRVA WSAI WSB WSM
WSMB WTAG WTAM WTIC WTMJ
WWJ WWNC KFI

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

KFH KFFJ 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 WDDO WDRC WDSU WEAN
WFBL WFIW WHEC WHK WHP
WKBN WKWB 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 WBRW 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 WBCM WDAE WDBJ
WCAH WCAO WCCO WDAE WDBJ
WDBO WDDO WDRC WDSU WEAN
WFBL WFBM WFEA WFIW WHEC
WHK WHP WIBW WKBB WKBN
WKWB WLAC WLAP WLWB WMAL
WMBD WMT WNAX WNOX WOKO
WORC WOWO WQAM WREC WSPA
WSPD WTRAR WTOC WXYZ

## Tuesday—Continued

ED-11:30 p.m. E-10:30 C-9:30 M-8:30  
C—Morton Downey See Monday  
R—Chas. Dornberger and Orchestra  
CFCE GKGW KFYZ KOA KPCY  
KSD KTBS KTBS WBEN WKRC  
WEAF WENR WFBR WFI WIBA  
WIOD WJAR WJAX WOAI WRC  
WTAM WTIC WWJ  
B—Piano Moods See Monday  
ED-11:45 p.m. E-10:45 C-9:45 M-8:45  
C—Noble Sissale See Monday  
ED-12:05 m. E-11:05 C-10:05 M9-04  
R—Johnnie Hamp and Orchestra  
KTBS WBEN WEAF WGY WRC  
WSM WSMB WTIC  
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 KFYZ KGO KGW KHQ KOA  
KOMO KSD KSL KSTP WBEN  
WCAE WCHS WDAF WDAY WEAF  
WEBC WENR WFBR WGY WHO  
WIBA WJAR WLIT WOC WOW  
WRC WSAI WTAG WTAM WTIC  
WTMJ WWJ  
ED-5:45 p.m., E-4:45, C-3:45, M-2:45  
B—Orphan Annie, See Monday  
ED-6:00 p.m., E-5:00, C-4:00, M-3:00  
C—Connie Boswell  
CFRB KDYL KFAB KFBK KFJF  
KLRA KLZ KMBC KMOX KOH  
KRLD KSCJ KTRH KVJ WAAB  
WABC WACO WBIG WBRC WBT  
WCAO WCCO WDAE WDBJ WDBO  
WDOD WDRC WDSU WFEA WFIW  
WHP WIBW WIP WISN WKBH  
WLAC WLAP WLWB WMAW WMT  
WNOX WOKO WORC WQOW WQAM  
WREB WSBT WSFA WTAQ WTAR  
WTOC WVVVA KVOR  
R—Waldorf-Astoria, See Monday  
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  
C—Bing Crosby, 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-7:15 p.m., E-6:15, C-5:15, M-4:15  
C—Maxwell House, See Monday  
B—Esso Program, Elsie Janis  
KDKA KTBS WBAL WBZA WIS  
WJZ WMC WPTF WRVA WSM  
WSMB WNNC  
ED-7:30 p.m., E-6:30, C-5:30, M-4:30  
C—Easy Aces, See Monday  
B—Stebbins Boys, See Monday

ED-7:45 p.m., E-6:45, C-5:45, M-4:45  
C—Morton Downey, See Monday  
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 WBEN WCHS WEAF WEEI  
WFBR WGY WHO WJAR WLIT  
WLS WOC WOW WRC WSAI WTAM  
WWJ  
B—Taxpayers' League  
KFSD KFYZ KGHL KGIR KGO  
KGW KHQ KOA KOIL KOMO  
KPRC KTRAR KTBS KVOO KWK  
WBAL WDAY WFLA WHAM WIBA  
WIS WJDX WJZ WLS WLW WMC  
WOAI WPTF WREN WNNC  
ED-8:15 p.m., E-7:15, C-6:15, M-5:15  
C—Singing Sam See Monday  
B—Willys Overland Program  
KDKA KFSD KFYZ KGHL KGIR  
KGO KGW KHQ KOA KOIL KOMO  
KPRC KSL KSTP KTRAR KTBS  
KVOO KWOR KWK WAPI WBAL  
WBZA WCKY WDAY WEBC WFAA  
WGAR WHAM WHAS WIBA WJDX  
WJR WJZ WKY WMAQ WMC WOAI  
WREN WSB WSM WSMB WTMJ  
ED-8:30 p.m., E-7:30, C-6:30, M-5:30  
C—Kate Smith, See Monday  
R—Halsey Stuart Program  
KSD KSTP WBEN 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—Musical Fast Freight  
KFH KFJF WABC WCAU WDBJ  
WFBM WJAS WMAL WOKO  
R—Goodyear, Grace Moore  
KFYZ KPRC KSD KSTP KTBS  
KVOO KYW WBEN WCAE WCHS  
WDAY WEAF WEGE WEEI WFAA  
WFBR WFLA WGY WHAS WHO  
WIBA WIOD WIS WJAR WJAX  
WJDX WKY WLIT WMC WOAI  
WOC WOW WRC WRVA WSAI  
WSB WSM WSMB WTAG WTAM  
WTMJ WWJ WNNC  
B—Sherlock Holmes Drama  
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—Ene Crime Club, See Tuesday  
R—Mobiloil Concert  
KFI KFYZ KGO KGW KHQ KOA  
KOMO KPRC KSD KSL KSTP  
KTRAR KVOO WBEN WCAE WCHS  
WDAF WDAY WEAF WEBC WEEI  
WENR WFAA WFBR WFLA WGY  
WHAS WHO WIBA WIOD WIS  
WJAR WJDX WKY WLIT WMC  
WOAI WOC WOW WRC WSAI WSB  
WSM WSMB WTAG WTAM WTIC  
WTMJ WWJ WNNC WJAX  
ED-9:45 p.m., E-8:45, C-7:45, M-6:45  
B—San Felice, See Monday  
ED-10:00 p.m., E-9:00, C-8:00, M-7:00  
C—Music That Satisfies, Ruth Etting  
KDB KDYL KERN KFBK KFH  
KFJF KFYZ KPRC KGB KHJ KLRA  
KLZ KMBC KML KMOX KOH  
KOLN KOL KOY KRLD KSCJ KTRH

KTSA KVI KVOR KWG WABC  
WACO WADC WBBM WBCM WBIG  
WBT WCAH WCAO WCAU WCCO  
WDAE WDBJ WDBO WDRC WEAN  
WFBL WFBR WFIW WGST WJEC  
WKH WHP WIBW WISN WJAS  
WKBH WKBW WKRC WLAP WLWB  
WLZB WMAL WMBD WMBG WMT  
WNAK WNAK WOKO WORC WQOW  
WPG WQAM WSPD WTAR WTOC  
WXYZ  
R—Coca-Cola Program  
KFI KFSD KGO KGW KHQ  
KOA KOMO KPRC KSD KSL KSTP  
KTRAR WAPI WBAP WBEN WCAE  
WCHS WDAF WEAF WEBC WEEI  
WENR WFBR WFLA WGY WHAS  
WHO WIOD WIS WJAR WJAX  
WJDX WKY WLIT WMC WOAI  
WOC WOW WRC WRVA WSAI  
WSB WSM WSMB WTAG WTAM  
WTIC WTMJ WWJ WNNC  
ED-10:15 p.m., E-9:15, C-8:15, M-7:15  
C—Adventures in Health  
KMBC KMOX WAAB WABC WADC  
WBBM WCAO WCAU WCCO WDRC  
WEAN WFBL WOK WJAS WKBW  
WKRC WMAL WKO WQOW 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  
KFBK KFYZ KPRC KGB KHJ KLZ  
KMBC KMJ KMOX KOIN KOL  
KRLD KTRH KVI KWG WAAB  
WABC WADC WBBM WBT WCAO  
WCAU WCCO WDRC WFBL WFBM  
WGST WKK WJAS WKBW WKRC  
WLAP WMAL WMT WOKO WQOW  
WSPD WXYZ  
R—NBC Artists' Service Musicale  
KGO KOA KSD KSTP KTBS WBEN  
WCAE WCHS WEAF WENR WHO  
WIS WJAR WOAI WOC WOW WRC  
WSB WSMB WTAG WTAM WWJ  
WNNC WGY  
ED-10:45 p.m., E-9:45, C-8:45, M-7:45  
C—Street Singer  
CFRB KLTA WAAB WABC WBIG  
WBRC WFLA WCAO WCAU WDAE  
WDBJ WDOD WDRC WDSU WDRB  
WFBL WFEA WFIW WHEC WHP  
WKBW WLAC WLWB WMAL WNOX  
WOKO WORC WPG WQAM WREB  
WTAR WTOC WADC  
C—Myrt and Marge, See Monday  
B—Pickens Sisters  
KDKA KOIL WBAL WGAR WHAM  
WJR WJZ  
ED-11:00 p.m., E-10:00, C-9:00, M-8:00  
R—Nellie Revell  
KSD WCHS WEAF WGY WJAR  
WOW WRC WTAM WWJ  
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  
ED-11:30 p.m., E-10:30, C-9:30, M-8:30  
C—Morton Downey, See Monday  
R—Vincent Lopez and Orchestra  
KFYZ KPRC KTBS KTBS WAPI  
WBEN WCFL WCKY WDAF WEAF  
WEBC WGY WIBA WJAR WOW  
WRC WTAM WTIC WTMJ WWJ  
B—Jane Froman and Orchestra  
WBAL WGAR WJZ WMAQ  
ED-11:45 p.m., E-10:45, C-9:45, M-8:45  
C—Don Redman and Orchestra  
KDYL KFAB KFJF KFYZ KLRA  
KLZ KMBC KOH KOL KRLD KSCJ  
KTRH KVOR WAAB WBAL WADC  
WBCM WBIG WBRC WBT WCAH  
WCAO WCAU WCCO WDAE WDBJ

### Wednesday—Continued

WDBO WDOO WDOR WDSU WFBM  
WFEA WFWL WHCC WHP WISN  
WKBH WKBW WLAC WLAP WLWB  
WMAL WMBD WMT WNA3 WNOX  
WOKO WORC WOWO WPG WQAM  
WSBT WWSA WSPD WTRW WTOC  
WXYZ

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

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

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

### THURSDAY

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

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

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

ED-12:00 p., 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  
R — Waldorf-Astoria, 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  
KFSO KFYZ KGHF KGR KGO  
KOA KOMO KSD WFAA  
WFI WJAX WJAZ WJDX  
WMAQ WSAI WTRW WJZ WNCN

ED-6:45 p.m., E-5:45, C-4:45, M-3:45  
C — Joe Palooka, See Tuesday

R — June Pursell, See Monday

B — Lowell Thomas, See Monday

B — Orphan Annie, See Monday

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

B — Amos 'n' Andy, See Monday

ED-7:15 p.m., E-6:15, C-5:15, M-4:15  
C — Mills Brothers, See Tuesday

B — Hinds Romance Exchange  
KOIL KVOO KWK WAPI WBAP  
WBZA WHAS WJDX WJZ WLW  
WMC WOAI WREN WSB WSM  
WSMB

ED-7:30 p.m., E-6:30, C-5:30, M-4:30  
C — Richman Bros., See Tuesday

B — Stebbins Boys, See Monday

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

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  
CFCF CKGW KFI KFSO KFYZ  
KGO KGW KHQ KOA KOMO KPRC  
KSD KSL KSTP KTAR WAPI WBAP  
WBEN WCAE WCSH WDAF WDAY  
WEAF WEBC WEHS WFBW WFI  
WFLA WGY WHAS WHO WIOD  
WJAR WJAX WJDX WKY WMAQ  
WMC WOAI WOC WOW WPTF

WRC WRVA WSAI WSB WSM  
WSMB WTAG WTAM WTC 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 WBZA

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

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  
C — Eugene Kerue, See Monday

R — Big Six of the Air  
KFI KFSO KGHF KGR KGO KGW  
KHQ KOA KOMO KPRC KSD KSL  
KSTP KTAR KPBS WBAP WBN  
WCAE WCSH WDAF WEAF WEI  
WFBW WFI WGY WJAX WJAR  
WKY WMAQ WOAI WOC WOW  
WRC WSAI WTAG WTAM WTC  
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 — Modern Male Chorus

CPRB KDYL KFAB KFH KFJF  
KFYF KLRA KMBC KMOX KOH  
KSCJ KTRH KVI KVRW WABC  
WADC WBCM WBIG WBRC WBT  
WCAH WCAO WCAU WCCO WDAE  
WDBJ WDBO WDOD WDRC WDSU  
WEAN WFBM WFEA WFLW WFL  
WHP WIBW WISN WKBW WLAC  
WLAP WLWB WMT WNA3 WNOX  
WOKO WORC WOWO WQAM WREC  
WSBT WWSA WSPD WTAQ WTRW  
WTRC WWVA WXYZ

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 WFBW WGN  
WHK WJAS WKBW WKRC WMAL  
WNA3 WOWO WSPD WXYZ

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

ED-10:00 p.m., E-9:00, C-8:00, M-7:00  
C — H.S.M. Trumpeters

KEFF KLZ KMBC KMOX KRLD  
KSCJ WAAB WABC WADC WBBM  
WCAO WCAU WCCO WDRC WEAN  
WFBW WFBM WGST WHK WJAS  
WKBW WKRC WLAP WMAL WMT  
WOWO WSPD WXYZ

R — Lucky Strike, See Tuesday

B — A. & P. Dance Gypsies  
KDKA KWK WBAL WBZA WGAR  
WHAM WJR WJZ WLW WMAQ  
WREN

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

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 Colombo, 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 — Lew Conrad's Orchestra  
KSD WCKY WDAF WEAF WENR  
WFBW WFI WHO WJAR WOC WRC  
WTC

ED-11:30 p.m., E-10:30, C-9:30, M-8:30  
C — Morton Downey, See Monday

B — Through the Opera Glass  
CKGW KECA KEX KFYZ KGA  
KGHL KJR KOIL KPO KSTP KTRB  
WBAL WENR WIBA WJR WJZ  
WRC WREN WSB

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

CPRB KDYL KFAB KFH KFJF  
KFYF KLRA KMBC KOH KOIL KOL  
KRLD KSCJ KTRH KVRW WAAB  
WABC WADC WBCM WBIG WBRC  
WBT WCAH WCAO WCAU WCCO  
WDAE WDBJ WDBO WDOD WDRC  
WDSU WEAN WFBW WFBM WFEA  
WFI WHCC WHK WHP WISN  
WKBW WKBW WLAC WLAP WLWB  
WMAL WMBD WMT WNA3 WNOX  
WNOX WOKO WOWO WQAM WREC  
WREN WSBT WSPD WTRW WTOC  
WXYZ

R — Cab Calloway See Monday

ED-12:00 m., E-11:00, C-10:00, M-9:00  
C — Guy Lombardo and Orchestra

KDYL KFAB KFH KFJF KFYF  
KLRA KLZ KMBC KOH KOIL KRLD  
KSCJ KTRH KVRW WABC WADC  
WBCM WBRC WBT WCAH WCAO  
WCAU WCCO WDAE WDBJ WDBO  
WDO WDSU WEAN WFBM WFEA  
WFI WHCC WHP WIBW WISN  
WKBW WKBW WLAC WLAP WLWB  
WMAL WMBD WMT WNA3 WNOX  
WNOX WOKO WOWO WQAM WREC  
WSBT WSPD WTRW WTOC WXYZ

ED-12:05 p.m., E-11:05, C-10:05, M-9:05  
R — Johnnie Hamp, 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., 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

R — Waldorf-Astoria, See Monday

ED-6:30 p.m., E-5:30, C-4:30, M-3:30  
C — Snooks Friedman, See Monday

B — Royal Vagabonds, See Monday



ED-6:45 p.m., E-5:45, C-4:45, M-3:45  
C — Bing Crosby, See Monday  
B — Lowell Thomas, See Monday  
B — Orphan Annie, See Monday  
R — Larry Funk and Orchestra  
KGO KOA WCAE WCSH 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 — Elsie Janis, 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  
C — Morton Downey, See Monday  
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 — Cities Service Concert

CRGW KFI KGO KGW KHQ KOA  
KOMO KPRC KSL KSTP  
KTBS KTHS KYW WBN WCAE  
WCSH WDAF WEAF WEBC WEEI  
WFAA WFRB WGY WHO WJAR  
WKY WLIT WQAI WOC WOW  
WRC WSAI WTAG WTAM WTIC  
WTMJ WWJ  
B — Nestle's Program  
KDKA KOIL KWK WBAL WBZA  
WKY WGAR WHAM WJZ WLS  
WREN

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

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

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

ED-9:00 p.m., E-8:00, C-7:00, M-6:00  
C — Toscha Seidel, Violinist  
CFRB KFAB KFBK KFH KFJF  
KLRA KMBC KMOX KOH KOIN  
KSCJ KTRH KVI WABC WADC  
WBCM WBIG WBRG WBT WCAO  
WCAU WCCO WDAE WDBJ WDBO  
WDOB WDRG WDSU WFBM WFEA  
WFIW WIBW WISN WKBW WLAC  
WLAP WLWB WMAL WMT WNAX  
WNOX WOKO WORC WOW WQAM  
WREC WWSA WSPD WTAQ WTAR  
WTOC WVVVA WXYZ

R — Cliequot Club  
KSD WBN WCAE WCSH WDAF  
WEAF WENR WFRB WGY WHO  
WJAR WLIT WLS WOC WOW WRC  
WSAI WTAG WTIC WWJ

B — Friendship Town  
CFCE CRGW KDKA KFI KFSD  
KFYR KGO KGW KHQ KOA KOIL  
KOMO KPRC KSL KSTP KTAR  
KTHS KWH KYW WAPI WBAL  
WBZA WDAY WEBC WFLA WGAR  
WHAM WHAS WIBA WIOD WIS  
WJAX WJDX WJR WJZ WKY WMC  
WQAI WREN WRVA WSB WSM  
WSMB WTMJ WWNC

ED-9:30 p.m., E-8:30, C-7:30, M-6:30  
C — To the Ladies, Tito Guizar  
KMBC KMOX KRLD WABC WADC  
WCAO WCAU WCCO WDRG WEAN

WFLB WFBM WGN WHK WJAS  
WKBW WKRC WMAL WNAC WOKO  
WOW WSPD WXYZ

R — Pond's Program  
KSD WBN WCAE WCSH WDAF  
WEAF WENR WFRB 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 WEBC WFAA WGAR  
WHAM WHAS WIOD WJAX WJZ  
WKY WMAQ WMC WQAI WRVA  
WSB WSM WSMB WNNC

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

ED-10:00 p.m., E-9:00, C-8:00, M-7:00  
C — Beau Bachelor  
KDB KDYL KERN KFBK KFJF  
KFPY KHJ KLZ KMJ KMOX KOIN  
KOL KRLD KWG WAAB WABC  
WADC WBBM WBT WCAO WCAU  
WCCO WDRG WEAN WFBL WHK  
WJAS WKBW WKRC WMAL WOKO  
WOW WREC WSPD WXYZ KPRC

R — Sampler, Andy Sanella  
KSD WBN WCAE WCSH WEAF  
WEEI WFRB WGY WHO WJAR  
WLIT WMAQ WOC WOW WRC  
WSAI WTAG WTAM WWJ

B — Paul Whiteman's Chieftains  
KDKA KFI KFSD KFYR KGHL  
KGRG KGO KGW KHQ KOA KOIL  
KOMO KPRC KSL KSTP KTAR  
KVOO KWK WBAL WBAP WBZA  
WCKY WDAY WEBC WENR WFLA  
WGAR WHAM WHAS WIBA WIOJ  
WIS WJX WJDX WJR WJZ WKY  
WMC WQAI WPTF WREN WRVA  
WSB WSM WSMB WTMJ WNNC

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  
ED-10:45 p.m., E-9:45, C-8:45, M-7:45  
C — Myrt and Marge, See Monday  
C — Funnymen, 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 and Orchestra  
KSD WCKY WDAF WEAF WEEI  
WJAR WOW WRC WTAM WWJ

ED-11:30 p.m., E-10:30, C-9:30, M-8:30  
C — Morton Downey, See Monday  
B — Chas. Dornberger's Orchestra

CFCE KDKA KFYR KPRC KSTP  
WBAL WCKY WEBC WENR WIBA  
WIS WJR WJZ WLW WRC WREN  
KOA

ED-11:45 p.m., E-10:45, C-9:45, M-8:45  
C — Don Redman, See Wednesday

ED-12:00 m., E-11:00, C-10:00, M-9:00  
C — Isham Jones, See Monday  
B — Cab Calloway, See Wednesday

ED-12:05 a.m., E-11:05, C-10:05, M-9:05  
R — Johnnie Hamp, 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-5:30 p.m., E-4:30, C-3:30, M-2:30  
R — Blue Moon Cuckoos

KSD KSTP WBN WCAE WCSH  
WDAF WEAF WEEI WENR WFRB  
WGY WHO 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  
R — Waldorf-Astoria, 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  
KRLD KSCJ KTRH KVI KVOR  
WABC WACO WADC WBBM WBCM  
WBIG WBRG WCAO WCAU WCCO  
WDAE WDBJ WDOB WDDO WDRG  
WDSU WEAN WFIW WGR WHP  
WIBW WISN WLAC WLAP WLWB  
WMAL WMT WNAC WNOX WOKO  
WOW WQAM WREC WWSA WTAQ  
WTAR WTOC WVVVA

B — Amos 'n' Andy, See Monday

ED-7:15 p.m., E-6:15, C-5:15, M-4:15  
C — Wm. Vincent Hall, Baritone  
CFRB KFAB KFBK KFH KFJF  
KOH KOL KRLD KSCJ KTRH  
KVI KVOR WABC WACO WADC  
WBCM WBIG WBRG WBT WCAO  
WCAU WCCO WDAE WDBJ WDBO  
WDOB WDRG WDSU WEAN WFBL  
WFIW WGR WHEC WHP WIBW  
WISN WLAC WLAP WLWB WMAL  
WMT WNAC WNOX WOKO WORC  
WQAM WREC WWSA WTAQ WTOC  
WVVVA

R — Laws That Safeguard Society  
KECA KEX KFSD KFYR KGA KJR  
KOA KPO KPRC KTAR KTHS  
WAPI WBN WCSH WDAY WEAF  
WEBC WENR WFI WFLA WGY  
WHO WIOD WJAR WJDX WOC  
WOW WPTF WRVA WSAI WTAG  
WTIC

R — Tastyest Jesters, See Monday

ED-7:30 p.m., E-6:30, C-5:30, M-4:30  
C — Guy Lombardo and Orchestra

KMBC KMOX KRLD WABC WADC  
WCAO WCAU WCCO WDRG WEAN  
WFBL WGN WGR WHK WJAS  
WKRC WMAL WNAC WOKO WSPD  
WXYZ

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

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

CFRB KDYL KFBK KFH KFJF  
KFPY KLZ KMOX KOH KOL KRLD  
KSCJ KTRH KVI KVOR WABC  
WACO WADC WBCM WBIG WBT



WCAH WCAO WCAU WCCO WDBJ  
WDBO WDOD WDRC WDSU WFBM  
WFJW WGL WHEC WHK WHP  
WIBW WISN WKBW WLAC WLAP  
WLBW WMT WNAC WNAK WNOX  
WPG WQAM WREC WSPA WSPD  
WTAQ WTAR WTOC WWSA WXYZ  
R — Ely Culbertson, Bridge

CFCF CKGW KSD WBEN WCSD  
WDAF WDAF WDFE WFBF WFI  
WGY WHO WJAR WMAQ WOC  
WOW WRC WSAI WTAG WTAM  
WTIC WWJ  
B — Danger Fighters, Drama

KDKA KFI KFSD KFYR KGO KGW  
KOA KOIL KOMO KPRC KSL KSTP  
KTAR KWK WBAL WBAQ WCKY  
WDAY WBCB WGAR WHAM WWSA  
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 WDAF  
WDFE WFBF WFI WHO WIOD WIS  
WJAR WJAX WMAQ WOC WOW  
WRC WTIC WWJ WNNC

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

KMBC KMOX WABC WCAO WCAU  
WFBL WGN WGR WHK WJAX  
WKRC WMAL WNAC WSPD WXYZ  
R — Radio in Education

KFI KFSD KFYR KGHL KGIR  
KGW KHQ KOA KOMO KPRC KSD  
KSL KSTP KTAR KYW WAPI WBEN  
WCAE WCSH WDAF WDAY WDAF  
WDFE WFBF WFI WFLA  
WGY WHAS WHO WIBA WIOD  
WIS WJAR WJAX WJDX WKY WMC  
WOAI WOC WOW WPTF WRC  
WWSA WSAI WSB WSM WSMB  
WTAG WTAM WTIC WTMJ WWJ  
WNNC

B — Dance with Countess d'Orsay  
CFCF CKGW KDKA KWK WBAL  
WBZA WGAR WHAM WJZ WLW  
WMAQ WREN

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

CFRB KFAB KFBK KFJF KFFY  
KFJF KFLA KMBC KMOX KOH  
KOL KSCJ KTRH KVI KVOR WAAB  
WABC WADC WBCM WBIG WBRC  
WBT WCAH WCAU WCCO WDAE  
WDBJ WDBO WDOD WDRC WDSU  
WEAN WFBL WFBM WFEA WHEC  
WHEC WHP WIBW WISN WKBW  
WLAC WLAP WLWB WMAL WMT  
WNAK WNOX WOKO WORC WOWO  
WPG WQAM WREC WSBT WSFA  
WSPD WTAQ WTAR WTOC WWSA  
WXYZ

ED-9-15 p.m., E-8-15, C-7-15, M-6-15  
C — Fray and Braggiotti, Piano

CFRB KDYL KFAB KFBK KFJF  
KFJF KFLA KFLZ KMBC KMOX  
KMOX KOH KSCJ KTRH KVI  
KVOR WAAB WABC WADC WBCM  
WBIG WBRC WBT WCAH WCAU  
WCCO WDAE WDBJ WDBO WDOD  
WDRC WDSU WEAN WFBL WFBM  
WFEA WHEC WHK WHP WIBW  
WISN WKBW WLAC WLAP WLWB  
WMAL WMT WNAK WNOX WOKO  
WORC WOWO WQAM WREC WSBT  
WSFA WSPD WTAQ WTAR WTOC  
WWSA WXYZ

KOH KSCJ KTRH KVI KVOR WAAB  
WABC WADC WBCM WBIG WBRC  
WBT WCAH WCAO WCAU WCCO  
WDAE WDBJ WDBO WDOD WDRC  
WDSU WEAN WFBL WFBM WFEA  
WFTW WHEC WHK WHP WIBW  
WISN WKBW WLAC WLAP WLWB  
WMAL WMT WNAK WNOX WOKO  
WORC WOWO WQAM WREC WSBT  
WSFA WSPD WTAQ WTAR WTOC  
WWSA WXYZ

R — Club Valpar  
CFCF CKGW KSD WBAP WBEN  
WCAE WCSH WDAF WDAF WDFE  
WFBF WFI WGY WHO WJAR  
WMAQ QOC WOW WRC WSAI WBS  
WSMB WTAG WTAM WTIC WWJ  
B — First Nighter, Drama

KDKA KFI KFSD KGO KGW KHQ  
KOA KOIL KOMO KSL KSTP KTAR  
KWK WBAL WBZA WBEBC WGAR  
WHAM WJR WJZ WLS WREN  
WTMJ

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

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

KDYL KFAB KFJF KFFY KFLA  
KFLZ KMBC KMOX KOH KOL  
KSCJ KTRH KVI KVOR WAAB  
WABC WADC WADC WBCM WBO  
WBT WCAH WCAO WCAU WCCO  
WDAE WDBJ WDBO WDOD WDSU  
WEAN WFBL WFBM WFTW WGL  
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

CFCF CKGW KOIL KWK 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 — Twenty Fingers of Harmony

CKGW KDKA WBAL WBZA WHAM  
WJZ

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

CFRB KDYL KFAB KFBK KFJF  
KFJF KFLA KFLZ KMBC KMOX  
KMOX KOH KOL KSCJ KTRH  
KVOR WAAB WABC WACO WADC  
WBCM WBIG WBRC WBT WCAH  
WCAO WCCO WDAE WDBJ WDBO  
WDOD WDRC WDSU WFBL WFBM  
WFEA WFTW WGL WGR WHEC  
WHK WHP WIBW WIP WKBW  
WLAC WLAP WLWB WMBD WMT  
WNAK WOKO WORC WQAM WREC  
WSBT WSPD WTAR WTOC WWSA  
WXYZ WNOX

C — Morton Downey, See Monday  
R — Russ Colombo, See Monday  
B — Amos 'n' Andy, See Monday

ED-11-30 p.m., E-10-30, C-9-30, M-8-30  
R — Johnnie Hamp and Orchestra

KECA KEX KGA KGHL KJR KPO  
KTAR WDAF WDFE WFBF WFI  
WGY WJAR WRC WTAM WTIC  
B — Piano Moods, See Monday

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

CFRB KDYL KFAB KFBK KFJF  
KFJF KFLA KFLZ KMBC KOH  
KOL KRLD KSCJ KTRH  
KVOR WAAB WABC WADC WBCM  
WBIG WBRC WCAH WCAO WCCO  
WDAE WDBJ WDBO WDOD WDRC  
WDSU WFBM WFTW WGL WHEC

WHP WFEA WISN WKBW WLAC  
WLAP WLWB WMBD WMT WNAK  
WNOX WOKO WORC WPG WQAM  
WREC WSBT WSPD WTAR WTOC  
WWSA WXYZ

ED-12-00 p.m., E-11-00, C-10-00, M-9-00  
C — Guy Lombardo and Orchestra

KDYL KFAB KFBK KFJF KFFY  
KFLA KFLZ KMBC KOH KOIN KOL  
KRLD KSCJ KTRH KVOR WABC  
WADC WBCM WBRC WBT WCAH  
WCAO WCAU WCCO WDAE WDBO  
WDOD WDSU WEAN WFBL WFBM  
WFEA WFTW WGL WHEC WHP  
WIBW WISN WKBW WLAC WLAP  
WLWB WMBD WMT WNAK WNAK  
WNOX WOKO WQAM WREC WSBT  
WSPD WTOC WWSA WXYZ

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

### SUNDAY

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

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

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

CFRB KDYL KFAB KFBK KFLA  
KFLZ KMBC KMOX KOIN KOL  
KRLD KSCJ KTRH KVI KVOR  
WAAB WABC WBRC WCAH WCAU  
WCCO WDAE WDBO WDOD WDRC  
WDSU WEAN WFBL WFEA WFTW  
WGR WHP WIBW WISN WKBH  
WLAP WLWB WMAL WMBD WMT  
WOKO WORC WPG WQAM WREC  
WSBT WSFA WSPD WWSA WXYZ  
R — Troika Bells

CKGW WCSH WDAF WDAF WFBF  
WFI WGY WHO WJAR WOC WRC  
WTAG WTAM WTIC WWJ

B — Careless Love, Drama

KEX KGA KGR KJR KOA KOIL  
KPO KPRC KSL KTAR WCKY  
WHAM WJZ

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

CFRB KDYL KFAB KFBK KFLA  
KFLZ KMBC KMOX KOIN KOL  
KRLD KSCJ KTRH KVI KVOR  
WAAB WABC WBRC WCAH WCAU  
WCCO WDAE WDBO WDOD WDRC  
WDSU WEAN WFBL WFEA WFTW  
WGR WHP WIBW WISN WKBH  
WLAP WLWB WMAL WMBD WMT  
WNOX WOKO WORC WPG WQAM  
WSBT WSFA WSPD WTOC WWSA  
WXYZ

ED-1-00 p.m., E-12-00, C-11-00, M-10-00  
C — Cathedral Hour

CFRB KDYL KFAB KFBK KFFY  
KFLZ KMBC KOH KOIN KOL KSCJ  
KVOR WAAB WABC WADC WBCM  
WCAO WCCO WDAE WDBJ WDBO  
WDOD WDRC WFBF WGR WHEC  
WHP WIBW WKBH WKBN WLAC  
WLAP WLWB WMAL WMBD WMT  
WNOX WOKO WPG WQAM WSBT  
WSPD WTAQ WTAR WTOC WWSA  
WXYZ

ED-1-30 p.m., E-12-30, C-11-30, M-10-00  
R — Silver Flute

KSD WBEN WCAE WDAF WDAF  
WGY WJAR WRC WTAG WTIC

ED-1-45 p.m., E-12-45, C-11-45, M-10-45  
R — Pop Concert, Walter Logan

KFYR KGO KGW KPRC KSD KSL

KTAR KVOO WBNB WCAE WCSH  
WDAF WFAE WEEI WFAA WFI  
WGY WHAS WIOD WIS WJAR WJAX  
WRVA WSB WSM WTAB WTAM  
WTIC WTMJ WWJ WUNC WRC

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

**C — Eight Sons of Eh**  
KFAB KMBC KMOX KRLD WABC  
WADC WBBM WBRB WBT WCAO  
WCAU WCCO WDRC WDSU WEAN  
WGR WHK WJAS WKRC WLAC  
WMAL WNAO WOKO WOWO

**B — Yardley Program**  
KOIL KWK WBAL WBZA WGAR  
WJZ WLW WMAQ WREN

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

**C — Church of the Air**  
CFRB KDYL KFBK KFPY KGB  
KLZ KMOX KOH KOL KSCJ KTRH  
KVI KWOR WAAB WABC WACO  
WADC WBCM WBT WCAO WCCO  
WDBJ WDBO WDOD WDRC WDSU  
WFBL WGL WHEC WHP WIBW  
WKBH WKBN WKBW WLAC WLP  
WLBW WMAL WMT WNOX WOKO  
WORC WPG WQAM WREC WTAQ  
WTAR WTCO WXYZ

**R — Moonshine and Honeysuckle**  
WCAE WCKY WCSH WDAF WFAE  
WFEI WFBF WGY WJAR WMAQ  
WRC WTAB WTAM WTIC WWJ

**B — Yeast Foamers**

KDKA KFI KFSD KFYR KGHL  
KGR KGO KGW KHQ KOA KOIL  
KPRC KSL KSTP KTAR KTHS  
KVOO KWK KYW WAPI WBAW  
WBZA WDAY WECB WFAA WFLA  
WGAR WHAM WHAS WIBA WIOD  
WIS WJAX WJDX WJZ WKY  
WLW WMC WOAI WPTF WREN  
WRVA WSB WSM WSMB WTMJ  
WUNC

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

**C — N.Y. Philharmonic Symphony**

CFRB KDYL KFAB KFBK KFH  
KFPY KGB KLRA KLZ KMBC KOH  
KOL KOL KSCJ KTRH KVI KWOR  
WAAB WABC WACO WADC WBCM  
WBRB WBT WCAH WCAO WCAU  
WCCO WDAE WDBJ WDBO WDOD  
WDRC WDSU WFBL WFBM WFEA  
WFIW WGL WHP WIBW WISN  
WKBH WKBN WKBW WLAC WLP  
WLBW WMAL WMBD WMT WNOX  
WOKO WORC WQAM WREC WSBT  
WSFA WSPD WTAQ WTAR WTCO  
WWVA WXYZ

**R — Wayne King and Orchestra**  
KSD KYW WBNB WCAE WCSH  
WDAF WFAE WEEI WFBF WGY  
WHO WJAR WLIT WOC WOV WRE  
WSAI WTAB WTAM WTIC WWJ

**B — National Youth Conference**

KFSD KFYR KGHL KGR KGO  
KGW KHQ KOA KOMO KPRC KSD  
KTHS KTHS KVOO KWK WAPI  
WBAL WCKY WDAY WECB WFAA  
WFLA WGAR WHAM WIBA WIOD  
WIS WJAX WJDX WJZ WKY WMAQ  
WMC WOAI WPTF WREN WRVA  
WSB WSMB WUNC

**ED-3:30 p.m., E-2:30, C-1:30, M-12:00**

**R — Dr. S. Parkes Cadman**

KFSD KFYR KGO KGW KHQ KOA  
KOMO KPRC KSD KSL KSTP  
KTAR KTHS KTHS KVOO KYW  
WBNB WCAE WCSH WDAF WDAY  
WFAE WECB WEEI WFAA WFBF  
WFLA WGY WJAS WIOD WIS  
WJAR WJAX WJDX WKY WMC  
WOAI WOV WPTF WRC WRVA  
WSAI WSB WSM WSMB WTAG  
WTAM WTIC WJM WUNC

**B — Swift Garden Party**  
KDKA KOIL KWK WBAL WBZA  
WGAR WJR WJZ WLW WMAQ  
WREN

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

**R — Iodent, Jane Froman**

KFI KFSD KFYR KGHL KGR KGO  
KGW KHQ KOA KOMO KPRC KSD  
KSTP KTAR KTHS KTHS KVOO  
KYW WAPI WBAW WBNB WCAE  
WCSH WDAF WDAY WFAE WECB  
WEEI WFBF 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 WUNC

**B — Songs of Home Sweet Home**

KDKA KOIL KWCR KWK WBAL  
WBZA WGAR WHAM WJR WJZ  
WLS WREN

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

**B — Shaeffer Lifetime Revue**

KDKA KFI KFSD KFYR KGHL  
KGR KGO KGW KHQ KOA KOIL  
KOMO KPRC KTAR KTHS KVOO  
KWK WAPI WBAL WBAW WBZA  
WCKY WDAY WECB WHAM WHAS  
WIBA WJDX WJZ WKY WMC WOAI  
WREN WSB WSM WSMB WTMJ

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

**C — Pastoral**

CFRB KDYL KFAB KFBK 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 WLAC WLBW WLZ WMBD  
WMT WNOX WOKO WORC WOV  
WQAM WREC WSA WSPD WTAQ  
WTAR WTCO WWVA WXYZ

**B — National Vespers**

KFSD KFYR KGR KGO KHQ  
KOMO KPRC KSTP KTAR KTHS  
KTHS KVOO KWK WBAL WBZA  
WCKY WDAY WECB WFAA WFLA  
WGAR WHAM WIBA WIOD WIS  
WJDX WJZ WMAQ WOAI WPTF  
WREN WRVA WSB WSM WSMB  
WUNC

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

**C — Blue Col Revue**

CFRB WAAB WABC WCAO WCAU  
WDRC WEAN WFBL WGR WHEC  
WHP WOKO WORC

**C — Chicago Knights**

KDYL KFAB KFBK KFH KFPY  
KGB KLZ KMBC KMOX KOH  
KOL KOL KRLD KSCJ KVI KWOR  
WADC WBBM WCAH WCCO WFBM  
WKBH WLP WMT WSBT WTAQ  
WWVA WXYZ

**R — G.E. Circle**

KFI KFSD KFYR KGO KGW KHQ  
KOA KOMO KPRC KSD KSL KSTP  
KTAR KVOO WAPI WBAW WBNB  
WCAE WCSH WDAF WDAY WFAE  
WECB WEEI WENR WFBF WFI  
WFLA WGY WHAS WHO WIBA  
WIOD WIS WJAR WJAX WJDX  
WKY WMC WOAI WOC WOV  
WPTF WRC WRVA WSAI WSB  
WSM WSMB WTAG WTAM WTIC  
WTMJ WWJ WUNC

**B — Simoniz Guardsmen**

KOIL KWK KYW WBAL WBZA  
WGAR WHAM WJR WJZ WLW  
WREN

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

**C — Quiet Harmonies**

KLRA WBIG WBRB WBT WDAE  
WDBJ WDBO WDOD WDSU WFIW  
WGST WIP WLAC WNOX WODX  
WPG WQAM WREC WSAF WTAR  
WTOC

**R — Catholic Hour**

KEX KFYR KGA KGHL KGR KJR  
KOA KPO KPRC KSD KSTP KTAR  
KTHS KVOO WBAW WBNB WCAE  
WCSH WDAF WDAY WFAE WECB  
WEEI WENR WFBF WFLA WGY  
WHO WIBA WIOD WJAR WJAX  
WJDX WKY WLIT WMC WOAI  
WOC WOV WRC WRVA WSAI  
WSB WSM WSMB WTAG WTAM  
WTIC WWJ WUNC

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

**C — Noble Sissie and Orchestra**

KLRA WBRB WBT WDAE WDBJ  
WDBO WDSU WIP WLAC WNOX  
WQAM WSAF WTAR WTOC

**R — Our American School**

KSD WBNB WCAE WCSH WDAF  
WFAE WEEI WENR WFBF WGY  
WHO WJAR WOC WOV WRC  
WTAG WTIC WWJ

**B — K-7, Drama**

CFPC KECA KEX KFYR KGA KGHL  
KGR KJR KOA KPO KPRC KSL  
KTAR KTHS KWK WBAL WCKY  
WDAY WECB WFLA WHAS WIBA  
WIOD WJDX WJZ WKY WREN  
WRVA WSMB WUNC

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

**C — Radio in Education**

KFAB KFBK KFH KFPY KGB  
KLZ KMBC KOH KOIN KOL KRLD  
KSCJ KTRH KVI KWOR WABC  
WACO WADC WBCM WBT WCCO  
WDAE WDBJ WDBO WDOD WDRC  
WDSU WEAN WFBL WFEA WFIW  
WGL WGR WHEC WHP WIP WISN  
WKBH WLP WLW WMAL WMT  
WNAO WNOX WOKO WORC WQAM  
WREC WSBT WSAF WTAQ WTAR  
WTCO WWVA WIBW WPG

**ED-7:15 p.m., E-6:15, C-5:15, M-4:15**

**R — Rexall Radio Party**

KFI KFSD KFYR KGHL KGR KGO  
KGW KHQ KOA KOMO KPRC KSD  
KSL KSTP KTAR KVOO WAPI  
WBNB WCAE WCSH WDAF WDAY  
WFAE WECB WFBF WFLA WGY  
WHO WIBA WIOD WIS WJAR WJAX  
WJDX WKY WLIT WMAQ WMC  
WOAI WOC WPTF WRC WRVA  
WSAI WSB WSM WSMB WTAG  
WTAM WTIC WTMJ WWJ WUNC

**B — Frigidarians, Male Quartet**

KDKA KOIL KWK KYW WBAL  
WBZA WGAR WHAM WJZ WLW  
WREN

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

**C — Modern Male Chorus**

KFAB KFBK KFH KFPY KGB  
KLZ KMBC KMOX KOH KOIN  
KOL KRLD KSCJ KVI KWOR WABC  
WACO WADC WBCM WBRB WBT  
WCAH WCAO WCAU WCCO WDAE  
WDBJ WDBO WDOD WDRC WDSU  
WFBL WFEA WFIW WGL WGR  
WHEC WHK WHP WISN WKBH  
WKBW WLP WLW WMAL WMT  
WNAO WNOX WOKO WORC WQAM  
WREC WSBT WSAF WSPD WTAQ  
WTAR WTCO WWVA WXYZ

**R — Orchestral Gems, Symphony**

KSD WCAE WDAF WFAE WFBF  
WGY WHO WLIT WLS WOC WSAI  
WTAG WTIC WWJ

**B — Three Bakers**

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

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

KMBC KMOX WABC WCAO WCCO  
WFBL WGN WGR WHK WHP WJAZ  
WKYC WLAP WNAC WOKO WPG  
WXYZ

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

KDYL KFAB KFBK KFH KFPY  
KLRA KLZ KMBC KMOX KOH  
KGIN KOL KSCJ KTRH KVI KWOR  
WABC WACO WAD WBCM WBRC  
WBT WCAH WCAU WCO WDAE  
WDBJ WDBO WDRC WDSU WEAN  
WFBL WFBM WFEA WFTW WGL  
WGR WHEC WHK WHP WIBW  
WISN WKHB WKBN WLAC WLAP  
WLBW WMAL WMT WNAC WNA3  
WNOX WORC WREC WSFA WSPD  
WTAR WTOC WYVA

**R — Chase & Sanborn Hour**

CFCF CFGW KFI KFSD KFYR KGO  
KGW KHQ KOA KOMO KPRC KSD  
KSL KSTP KTAR KTHS KVOO  
WBEN WCAE WCSH WDAF WDAY  
WEAF WBEBC WFAA WFBW WFLA  
WGY WHAS WHO WIOD WIS WJAR  
WJDX WKY WLIT WLS WMC WOAI  
WOC WOV WPTF WRC WSAI WSB  
WSMB WTAM WTIC WTMJ WWJ  
WVNC

**B — Enna Jettick Melodies**

CFCF CKGW KDKA KFI KFSD  
KFYR KGHM KGIR KGO KGW KHQ  
KOA KOIL KOMO KPRC KSL KSTP  
KTAR KTBS KTBS KVOO KWCR  
KWK KYW WBAL WBZA WDAY  
WBEBC WFAA WFLA WGAR WHAM  
WHAS WIBA WIOD WIS WJDX WJRW  
WJZ WKY WLW WMC WOAI WPTF  
WREN WRVA WSB WSM WSMB  
WTMJ WVNC

**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 WBRB WBT WCAH WCAO  
WCAU WCCO WDOD WDCS WEAN  
WFBL WFBM WGN WGR WGST  
WHEC 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 KFPY KPRC  
KGB KHJ KLZ KMBC KMJ KMOX  
KGIN KOL WABC WADC WCAO  
WCAU WCCO WDRC WEAN WFBL  
WGN WGR WHK WJAS WKRC  
WMAL WNAC WOV WSPD WXYZ

**C — Col. Stoopnagle and Budd**

KLRA WBRB WBT WDAE WDBJ  
WDBO WDOD WDSU WFIW WLAC  
WREC WTAR WTOC

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

KDB KDYL KERN KFBK KFPY  
KPRC KGB KHJ KLZ KMBC KMJ  
KMOX KOIN KOL KGW WABC  
WADC WBT WCAO WCAU WCCO  
WDRC WDSU WEAN WFBL WFBM  
WGN WGR WGST WHK WJAS  
WKRC WMAL WNAC WOV WOV  
WRR WSPD WXYZ

**R — Our Government, David Lawrence**  
**KSD KTBS KTHS KVOO WCSH**

WEAF WENR WFAA WFBW WFLA  
WGY WHO WIOD WIS WJAR WJDX  
WOC WOV WPTF WRC WSAI  
WVNC

**ED-9:15 p.m., E-8:15, C-7:15, M-6:15**  
**R — American Album Familiar Music**

KFSD KFYR KGHM KGIR KGO  
KGW KHQ KOA KOMO KPRC KSD  
KSL KSTP KTAR KTHS WAPI  
WBEN WCAE WCSH WDAY WEAF  
WBEBC WENR WFBW WFI WFLA  
WGY WHAS WHO WIBA WIOD  
WJAR WJAZ WJDX WKY WOAI  
WOC WOV WRC WRVA WSAI  
WSB WSM WSMB WTAG WTAM  
WTMJ WWJ

**B — Bayuk Stag Party**

KDKA KWK KYW WBAL WBZA  
WGAR WJR WJZ WLW WREN

**ED-9:30 p.m., E-8:30, C-7:30, M-6:30**  
**C — Penzoi 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**  
**R — Buick Revelers**

KDYL KERN WBEAN WCAE WCSH  
WDAF WEAF WENR WFBW WDFW  
WFI WGY WHO WJAR WKY WOC  
WOV WPTF WRC WSAI WTAG  
WTAM WTIC WWJ

**B — Making Movies, Ray Knight**

KDKA KOIL KWK KYW WBAL  
WBZA WGAR WHAM WJR WJZ  
WLW WREN

**ED-10:00 p.m., E-9:00, C-8:00, M-7:00**  
**C — Edna Wallace Hopper Variety**

KDB KDYL KFBK KFH KFJF  
KFPY KPRC KGB KHJ KLZ KMBC  
KMOX KOIN KOL KRDL KTSa  
KWG WAAB WABC WADC WBBM  
WCAO WCAU WCCO WDRC WDSU  
WFBL WFBM WGST WHEC WHK  
WISN WJAS WKWB WKRC WLAP  
WLBZ WMAL WOKO WORC WOV  
WREC WSPD WXYZ

**ED-10:15 p.m., E-9:15, C-8:15, M-7:15**  
**R — Old Singing Master**

KDKA KFI KGO KGW KHQ KOA  
KOIL KOMO KWK WBAL WBZA  
WGAR WHAM WJZ WLW WMAQ  
WREN

**ED-10:20 p.m., E-9:20, C-8:20, M-7:20**  
**R — L'Heure Exquise**

KSTP KTBS WBEN WCAE WCSH  
WEAF WBEBC WEEI WFBW WFI  
WGY WJAR WRC WTAG WTAM  
WTIC

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

KDB KDYL KERN KFBK KFJF  
KFPY KPRC KGB KHJ KLRA KLZ  
KMBC KMJ KMOX KOIN KOL  
KRDL KSCJ KTSa KVI KWG

WAAB WABC WADC WBRC WBT  
WCAH WCAO WCAU WCCO WDAE  
WDBJ WDBO WDOD WDRC WDSU  
WFBL WFBM WFTW WGN WGR  
WGST WHEC WHK WIBW WISN  
WJAS WKHB WKRC WLAC WLAP  
WLBZ WMAL WMT WNOX WOKO  
WOWO WQAM WREC WSPD WTAQ  
WTAR WTOC WXYZ

**ED-10:45 p.m., E-9:45, C-8:45, M-7:45**  
**R — Sunday at Seth Parker's**

CKGW KFSD KFYR KGHM KGIR  
KGO KGW KOA KOMO KPRC KSL  
KSTP KTAR KTBS WAPI WBEN  
WCAE WDAF WDAY WEAF WBEBC  
WEEI WENR WFBW WFI WFLA  
WGY WHAS WHO WIBA WIOD WIS  
WJAR WJAZ WJDX WKY WMC  
WOAI WOC WOV WRC WRA VA  
WSAI WSB WSM WSMB WTAM  
WTMJ WWJ

**B — Archer Gibson, Organist**

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 KRDL KTRH  
KFOR WAAB WABC WADC WBCM  
WBRB WBT WCAH WCAO WCCO  
WDAE WDBJ WDBO WDOD WDRC  
WDSU WEAN WFBL WFBM WFEA  
WFTW WGL WGR WHEC WHP  
WIBW WISN WKHB WKBN WLAC  
WLAP WLBW WMAL WMBD WMT  
WNOX WOKO WPG WQAM WREC  
WSFA WSPD WTAR WTOC WXYZ

**ED-11:15 p.m., E-10:15, C-9:15, M-8:15**  
**R — Russ Columbo and Orchestra**

KGHM KGO KOA KOMO KPRC  
KTBS WCKY WEAF WFBW WFI  
WGY WHO WIBA WOC WOV WRC  
WSMB WWJ

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

KLRA WABC WADC WBCM WBT  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDOD WDRC WDSU WEAN  
WFBL WFEA WFTW WGL WGR  
WHEC WHP WKHB WKBN WLAC  
WLBW WMAL WMT WNAC WNOX  
WOKO WPG WQAM WREC WSFA  
WSPD WTAR WTOC WXYZ

**C — Penzoi Parade**

KDYL KERN KFBK KFPY KPRC  
KGB KHJ KLZ KMJ KOH KOIN  
KOL KOY KWG

**R — Jesse Crawford, Organ**

WCAE WCKY WDAF WEAF WFBW  
WGR WHO WJAR WMAQ WOC  
WOV WRC WTAM WWJ

**ED-11:45 p.m., E-10:45, C-9:45, M-8:45**  
**B — Sam Herman, Xylophone**

KDKA KFYR KOIL KPRC KTBS  
KWK WAPI WBAL WBEBC WGAR  
WJR WJZ WKY WMAQ WSMB

**ED-12:00 m., E-11:00, C-10:00, M-9:00**  
**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 WFTW  
WGL WGR WHEC WHP WIBW WISN  
WKBN WLAP WLBW WMAL WMT  
WNAC WNOX WOV WQAM WREC  
WSBT WSFA WSPD WTOC

**R — Larry Funk and Orchestra**

WCAE WEAF WGY WOV WRC  
WTAM

## INDEX BY FREQUENCIES AND DIAL NUMBERS

### NOTICE OF COPYRIGHT

The method of logging by wave-lengths or frequencies was devised by The Radex Press in 1924 and has been copyrighted and recopyrighted each year since that time. The arrangement of stations in groups by frequencies or wave-lengths with dial readings in connection therewith is fully covered by our copyright and all infringers will be vigorously prosecuted.

### KEY

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

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

### 540 kilocycles 555.6 meters

CKWO -- 1000 --- Windsor, Ontario

--	--	--

Essex Broadcasters, Ltd.

### 550 kilocycles 545.1 meters

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

--	--	--

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

### 560 kilocycles 535.4 meters

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

--	--	--

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

### 570 kilocycles 526.0 meters

KGKO	*	250	+	Wichita Falls, Texas
KMTR	*	500	---	Hollywood, Cal.
KVI	*	500	C	Tacoma, Wash.
TGW		50	---	Guatemala
WEAO	†	750	1	Columbus, Ohio
WKBN	*	500	1C	Youngstown, Ohio
WMAC	---	250	2a	Syracuse, N. Y.
WMCA	---	500	3	New York City
WNAX	*	1000	C	Yankton, S. D.
WNYC	†	500	3	New York City
WSYR	---	250	2a	Syracuse, N. Y.
WWNC	*	1000	N	Asheville, N. C.

--	--	--

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.  
Dept. of Plants and Structures  
Clive B. Meredith  
Citizens Broadcasting Co., Inc.

### 580 kilocycles 516.9 meters

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

--	--	--

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

94

INDEX BY FREQUENCIES AND DIAL NUMBERS

590 kilocycles 508.2 meters

CMW	--	2000	588
KHQ	--	1000	+N
WCAJ	*	500	R
WEEI	†	1000	I
WKZO	*	1000	D
WOW	*	1000	IR

Havana, Cuba  
Spokane, Wash.  
Lincoln, Nebr.  
Boston, Mass.  
Kalamazoo, Mich.  
Omaha, Nebr.


KCYS.  
670  
MTRS.  
447.5  
DIAL

Columbus Commercial & Radio Co.  
Louis Wasmer, Inc.  
Nebraska Wesleyan University  
Edison Elec. Illuminating Co.  
WKZO, Inc.  
Woodmen of the World,

600 kilocycles 499.7 meters

CNRO	†	500	---
KFSD	†	500	+N
WCAC	†	250	2+
WCAO	*	250	C
WICC	*	250	2+
WMT	*	500	C
WREC	*	500	+C

Ottawa, Ont.  
San Diego, Cal.  
Storrs, Conn.  
Baltimore, Md.  
Bridgeport, Conn.  
Waterloo, Iowa  
Memphis, Tenn.


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

610 kilocycles 491.5 meters

KFRC	*	1000	C
VPN	--	500	---
WDAF	**	1000	N
WFAN	*	500	Ca
WIP	*	500	Ca
WJAY	†	500	D
XETR	--	2500	---

San Francisco, Cal.  
Nassau, Bahama  
Kansas City, Mo.  
Philadelphia, Pa.  
Philadelphia, Pa.  
Cleveland, Ohio  
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
KTAR	*	500	+N
KZRM	--	1000	618.5
WFLA	**	1000	+Na
WLBS	†	500	C
WSUN	*	1000	+a
WTMJ	*	1000	+N

Portland, Ore.  
Phoenix, Arizona  
Manila, P. I.  
Clearwater, Fla.  
Bangor, Maine  
St. Petersburg, Fla.  
Milwaukee, Wis.


Oregonian Publishing Co  
KTAR Broadcasting Co.  
Erlanger & Galinger, Inc.  
Chamber of Commerce  
Maine Broadcasting Co., Inc.  
Chamber of Commerce  
Milwaukee Journal

630 kilocycles 475.9 meters

CFCT	*	500	---
CJGX	*	500	---
CKOC	**	500	+aZ
CKTB	**	500	+aZ
CMCJ	--	250	---
CNRA	*	500	---
HIX	*	1000	---
KFRU	*	500	I
KGFX	*	200	D
WGBF	†	500	I
WMAL	*	250	+C
WOS	*	500	I
XETF	--	500	---

Victoria, B. C.  
Yorkton, Sask.  
Hamilton, Ont.  
St. Catharines, Ont.  
Havana, Cuba  
Moncton, N. B.  
Santo Domingo  
Columbia, Mo.  
Pierre, S. D.  
Evansville, Ind.  
Washington, D. C.  
Jefferson City, Mo.  
Veracruz, Ver.


Victoria Broadcasting Association  
Winnipeg Grain Exchange  
Wentworth Radio Broadcasting Co.  
Taylor & Bate, Ltd.  
Rafael Rodriguez  
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
CKCI	†	100	645a
CKCR	--	100	645
CMHJ	--	40	645
KFI	*	50000	N
WAIU	*	500	Dn
WOI	*	5000	D

Quebec, Que.  
Quebec, Que.  
Waterloo, Ont.  
Cienfuegos, Cuba  
Los Angeles, Cal.  
Columbus, Ohio  
Ames, Iowa


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

650 kilocycles 461.3 meters

KPCB	*	100	Dn
WSM	*	5000	NX

Seattle, Wash.  
Nashville, Tenn.


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

660 kilocycles 454.3 meters

CHWK	†	100	665
CJRM	†	500	665
CJRW	†	1000	665
CMCO	--	250	---
CMDC	--	500	---
RUS	--	500	664
WAAW	**	500	D
WEAF	†	50000	R□
WTIC	*	5000	R□

Chilliwack, B. C.  
Moose Jaw, Sask.  
Fleming, Sask.  
Havana, Cuba  
Havana, Cuba  
Salvador  
Omaha, Nebr.  
New York City  
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
WMAQ	*	5000	N

St. Johns, N. F.  
Chicago, Ill.


Wesley United Church  
National Broadcasting Co.

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

680 kilocycles 440.9 meters

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


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	*	7000	Ca	Toronto, Ont.
CJ CJ	*	500	1	Calgary, Alta.
CNRX	*	4000	a	Toronto, Ont.
NAA	--	1000	---	Arlington, Va.
VAS	†	2000	685	Glance Bay, N. S.
XET	†	500	---	Monterrey, Mexico
VCX	--	100	---	Halifax, N. S.


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

700 kilocycles 428.3 meters

WLW	*	50000	B	Cincinnati, Ohio
-----	---	-------	---	------------------


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


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

720 kilocycles 416.4 meters

WGN	†	25000	C	Chicago, Ill.
-----	---	-------	---	---------------


Chicago Tribune

730 kilocycles 410.7 meters

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


W. G. Hassell  
Northern Electric Co., Ltd.  
La Presse Publishing Co., Ltd.  
Vancouver Daily Province  
United Church of Canada  
Spratt-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.


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


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.


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.


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

63

INDEX BY FREQUENCIES AND DIAL NUMBERS

790 kilocycles 379.5 meters

CMBS	--	150	---	Havana, Cuba
CMBT	--	500	---	Havana, Cuba
CMHC	--	100	---	Tuinucu, Cuba
KGO	†	7500	N	San Francisco, Cal.
WGY	†	50000	R	Schenectady, N. Y.

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

800 kilocycles 374.8 meters

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

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.
WPCH	*	500	D	New York City
XFC	--	250	---	Aguascalientes, Mexico
VOAS	--	75	---	St. John's, N. F.

Maritime Broadcasting Co., Ltd.  
Canadian National Railways  
Northwestern Broadcasting, Inc.  
Eastern Broadcasters, Inc.  
Gobierno del Estado de Aguascalientes  
Ayre & Sons, Ltd.

KCYS.  
880  
MTRS.  
340.7  
DIAL

820 kilocycles 365.6 meters

CMGC	--	30	---	Matanzas, Cuba
WHAS	†	10000	NX	Louisville, Ky.
XFI	--	1000	818	Mexico City

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

830 kilocycles 361.2 meters

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

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

840 kilocycles 356.9 meters

CKGW	*	5000	Na	Toronto, Ont.
CKLC	†	1000	b	Red Deer, Alta.
CMC	*	500	842	Havana, Cuba
CNRD	†	1000	b	Red Deer, Alta.
CPRY	--	5000	a	Toronto, Ont.
XEFD	--	300	845	Tiajuana, B. C.

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

850 kilocycles 352.7 meters

KWKH	*	10000	1	Shreveport, La.
WWL	*	10000	1	New Orleans, La.

Hello World Broadcasting Corp.  
Loyola University

860 kilocycles 348.6 meters

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

KMO, Inc.  
Atlantic Broadcasting Corp.  
Atlantic Broadcasting Corp.  
WHB Broadcasting Co.  
Secretaria de Educacion Publica

870 kilocycles 344.6 meters

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

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

880 kilocycles 340.7 meters

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.
WCOG	*	500	+	Meridian, Miss.
WGBI	*	250	1	Scranton, Pa.
WQAN	†	250	1	Scranton, Pa.
WSUI	*	500	---	Iowa City, Iowa

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

CUT OUT ON DOTTED LINES

52

INDEX BY FREQUENCIES AND DIAL NUMBERS

890 kilocycles 336.9 meters

CFBO	*	500	---	St. John, N. B.
CKCO	†	100	3	Ottawa, Ont.
CKPR	†	50	3	Ft. William, Ont.
CMCF	†	250	---	Havana, Cuba
CMX	*	1000	885	Havana, Cuba
CKARK	*	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	*	250	---	San Juan, P. R.
WMMN	*	250	---	Fairmont, W. Va.
XES	\$	500	+	Tampico, Mexico

--	--	--

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

900 kilocycles 333.1 meters

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

--	--	--

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

910 kilocycles 329.6 meters

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

--	--	--

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

920 kilocycles 325.9 meters

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.

--	--	--

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

930 kilocycles 322.4 meters

CFCH	---	100	3	North Bay, Ont.
CFRC	---	50	3+	Kingston, Ont.
CKX	†	500	---	Brandon, Man.
CMCD	---	250	925	Havana, Cuba
CMCN	---	250	925	Havana, Cuba
CMJF	---	50	---	Camaguey, Cuba
KFWI	†	500	1	San Francisco, Cal.
KGBZ	---	500	2+	York, Nebr.
KMA	---	500	2+	Shenandoah, Iowa
KROW	*	500	1+C	Oakland, Cal.
WBRC	*	500	+C	Birmingham, Ala.
WDBJ	*	250	+C	Roanoke, Va.
WIBG	*	25	D	Elkins Park, Pa.

--	--	--

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

940 kilocycles 319.0 meters

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

--	--	--

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

950 kilocycles 315.6 meters

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

--	--	--

Manuel Alvarez  
Warner Bros. Broadcasting Corp.



INDEX BY FREQUENCIES AND DIAL NUMBERS

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

960 kilocycles 312.3 meters

<del>CHCK</del>	--	100	---	Charlottetown, P. E. I.	W. E. Burke & J. E. Gesner
<del>CHWC</del>	*	500	3	Regina, Sask.	R. H. Williams & Sons, Ltd.
CJBR	--	500	3a	Regina, Sask.	Cooperative Wheat Producers, Ltd.
CKCK	†	500	3a	Regina, Sask.	Leader-Post, Ltd.
CKNC	*	500	---	Toronto, Ont.	Canadian National Carbon Co., Ltd.
CMBC	--	150	965	Havana, Cuba	Domingo Fernandez
CMBD	--	250	965	Havana, Cuba	Luis Perez Garcia
CNRR	--	500	3a	Regina, Sask.	Canadian National Railways
<del>XED</del>	*	10000	965	Reynosa, Mexico	International Broadcasting Co.

970 kilocycles 309.1 meters

CMGF	--	50	977	Matanzas, Cuba	Bernabe R. de la Torre
<del>KJR</del>	*	5000	N	National, Wash.	Northwest Broadcasting System, Inc.
WCFL	--	1500	R Dn	Chicago, Ill.	Chicago Federation of Labor

980 kilocycles 305.9 meters

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

990 kilocycles 302.8 meters

<del>WBZ</del>	†	25000	B□X	Boston, Mass.	Westinghouse Elec. & Mfg. Co.
<del>WBZA</del>	†	1000	B□X	Springfield, Mass.	Westinghouse Elec. & Mfg. Co.
<del>XEK</del>	--	101	---	Mexico City	Arturo Martinez

1000 kilocycles 299.8 meters

<del>KFVD</del>	*	250	DnY	Culver City, Cal.	Los Angeles Broadcasting Co.
<del>WHO</del>	* 5000	R□X		Des Moines, Iowa	Central Broadcasting Co.
<del>WOC</del>	*	5000	R□X	Davenport, Iowa	Central Broadcasting Co.
WORK	--	1000	D	York, Pa.	York Broadcasting Co.
XEA	--	100	---	Guadalajara, Jal.	Alberto Palos Sauza
XEC	--	50	---	Toluca, Mex.	Jesus R. Benavides
XEE	*	105	---	Oaxaca, Oax.	Alfonso Zorilla B.
XEFE	--	100	---	N. Laredo, Tams.	Rafael T. Carranza
XEFI	--	100	---	Chihuahua, Chih.	Feliciano Lopez Islas
XEFS	--	40	---	Queretaro, Qro.	Salvador Sanchez
XEI	*	101	---	Morelia, Mexico	Carlos Gutierrez M.
XEJ	*	100	---	Juarez, Chih.	Juan G. Buttner
XEL	--	25	---	Saltillo, Coah.	Antonio Garza Castro
XETC	--	100	---	Jalapa, Ver.	Juventino Sanchez
XETG	--	100	---	Torreon, Coah.	Feliciano Lopez Islas
XEU	--	100	---	Veracruz, Ver.	Fernando Pazos
XEV	--	100	---	Puebla, Pue.	Ciro Molina
XEY	--	105	---	Merida, Yuc.	Partido Socialista S. E.

1010 kilocycles 296.8 meters

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

1020 kilocycles 293.9 meters

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

KCYS.  
1020  
MTRS.  
293.9  
DIAL

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

1030 kilocycles 291.1 meters

CFCF	--	500	N	Montreal, Que.
CMKC	*	150	1034	Santiago de Cuba
CMNV	†	500	---	Vancouver, B. C.
XEB	†	1000	---	Mexico City, Mexico

--	--	--

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

1040 kilocycles 288.3 meters

KRLD	*	10000	C1	Dallas, Texas
KTHS	†	10000	N1	Hot Springs, Ark.
WKAR	*	1000	D	East Lansing, Mich.

--	--	--

KRLD Radio Corp.  
Chamber of Commerce  
Michigan State College

1050 kilocycles 285.5 meters

CMGH	--	150	---	Matanzas, Cuba
KFB1	--	5000	Dn	Milford, Kansas
KNX	*	5000	---	Hollywood, Cal.
XEFC	--	10	---	Merida, Yuc.

--	--	--

Alberto Alvarez  
Farmers & Bankers Life Insurance Co.  
Western Broadcast Co.  
Hugo Molina Font.

1060 kilocycles 282.8 meters

KWJJ	*	500	Dn	Portland, Ore.
WBAL	*	10000	1B	Baltimore, Md.
WJAG	*	1000	Dn	Norfolk, Nebr.
WTIC	*	50000	1R	Hartford, Conn.

--	--	--

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

1070 kilocycles 280.2 meters

CMBG	--	150	---	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

--	--	--

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.

--	--	--

Station WBT, Inc.  
Wilbur Glenn Voliva  
Moody Bible Institute

1090 kilocycles 275.1 meters

KMOX	*	50000	C	St. Louis, Mo.
------	---	-------	---	----------------

--	--	--

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.

--	--	--

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

1110 kilocycles 270.1 meters

CMHI	--	15	---	Santa Clara, Cuba
KSOO	--	2500	Dn	Sioux Falls, S. D.
KZKA	--	1000	---	Manilla, P. I.
WRVA	--	5000	N	Richmond, Va.

--	--	--

Laviz y Paz  
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
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

--	--	--

Star Pub. & Ptg. Co.  
N. S. Dalgleish & Sons  
R. T. Holman, Ltd.  
Harold R. Carson  
Canadian National Railways  
Spokane Broadcasting Corp.  
Echo Park Evang. Assn.  
Dalton's, Inc.  
Radio Sales Corp.  
Rice Hotel  
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
XEH	--	1000	1132	Monterrey, N. L.

--	--	--

Radio Service Corp. of Utah  
WJJD, Inc.  
International Broadcasting Corp.  
Constantino Tarnava

29

INDEX BY FREQUENCIES AND DIAL NUMBERS

**1140 kilocycles 263.0 meters**  
 KWOO \* 5000 INX Tulsa, Okla.  
 WAPI \* 5000 INX Birmingham, Ala.  
 XETA -- 500 --- Mexico City


Southwestern Sales Corp.  
 Alabama Polytechnic Institute  
 Manuel Espinosa Tagle

**1150 kilocycles 260.7 meters**  
 CMCQ -- 600 --- Havana, Cuba  
 CMGI -- 30 --- Colon, Cuba  
 CMQ † 250 --- Havana, Cuba  
 WHAM \* 5000 BX Rochester, N. Y.  
 10-AT -- 25 1155 Trail, B. C.


Andres Martinez  
 Armando Lizama  
 Jose Fernandez  
 Stromberg-Carlson Tel. Mfg. Co.  
 Trail Amateur Radio Assn.

**1160 kilocycles 258.5 meters**  
 WWOV \* 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**  
 CMJE -- 20 --- Camaguey, Cuba  
 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.


Manuel Fernandez  
 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**

KOV	--	100	---	Kelowna, B. C.
CMGB	--	30	1205	Matanzas, Cuba
CMJG	--	30	---	Camaguey, Cuba
KBTM	--	100	D	Paragould, Ark.
KERN	--	100	C	Bakersfield, Cal.
KFJB	†	100	+	Marshalltown, Iowa
KFWF	†	100	5+	St. Louis, Mo.
KGDE	*	100	+	Fergus Falls, Minn.
KGDY	*	100	---	Huron, S. D.
KGEK	†	100	9	Yuma, Colo.
KGEW	†	100	9	Fort Morgan, Colo.
KGFJ	†	100	---	Los Angeles, Cal.
KGHI	*	100	---	Little Rock, Ark.
KGY	†	100	+	Olympia, Wash.
KMLB	*	100	D	Monroe, La.
KVOS	*	100	---	Bellingham, Wash.
KWGS	*	100	---	Stockton, Cal.
WABI	†	100	---	Bangor, Maine
WABZ	*	100	1	New Orleans, La.
WBBS	*	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	10	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	C	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  
 Pedro Noguera  
 W. J. Beard's Temple of Music  
 Bee Bakersfield Brdcastg Co.  
 Marshall Electric Co., Inc.  
 St. Louis Truth Center, Inc.  
 Jaren Drug Co.  
 Voice of South Dakota  
 Beehler Elec. Equipment Co.  
 City of Fort Morgan  
 Ben S. McGlashan  
 O. A. Cook  
 KG Y, Inc.  
 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.  
 W. T. Cruickshank  
 Thomas Brown, Mgr.

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

CUT OUT ON DOTTED LINE

23

INDEX BY FREQUENCIES AND DIAL NUMBERS

1210 kilocycles 247.8 meters

CFCO	--	250	8	Chatham, Ont.
CFNB	*	50	---	Frederickton, N. B.
CJOR	*	500	---	Vancouver, B. C.
CKMC	*	100	8	Cobalt, Ont.
KDFN	†	100	XZ	Casper, Wyo.
KDLR	†	100	---	Devil's Lake, N. D.
KFJI	†	100	---	Klamath Falls, Ore
KFOR	†	100	+	Lincoln, Nebr.
KFVS	†	100	---	Cape Girardeau, Mo.
KFXM	†	100	9	San Bernardino, Cal.
KGCR	†	100	---	Watertown, S. D.
KGMP	†	100	---	Elk City, Okla.
KGNO	†	100	---	Dodge City, Kansas
KMJ	*	100	---	Fresno, Cal.
KPCC	*	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	3	Yonkers, N. Y.
WCRW	*	100	4	Chicago, Ill.
WEBQ	*	100	6	Harrisburg, Ill.
WEDC	*	100	4	Chicago, Ill.
WGBB	*	100	3	Freeport, N. Y.
WGCM	*	100	XZ	Gulfport, Miss.
WHBF	*	100	---	Rock Island, Ill.
WHBU	†	100	---	Anderson, Ind.
WIBU	†	100	---	Poynette, Wis.
WJBI	†	100	3	Red Bank, N. J.
WJBU	†	100	1	Lewisburg, Pa.
WJBW	*	100	---	Gadsden, Ala.
WJW	*	100	---	Mansfield, Ohio
WLCI	*	50	---	Ithaca, N. Y.
WMBG	*	100	7C	Richmond, Va.
WMRJ	*	100	3	Jamaica, N. Y.
WOMT	*	50	---	Jamestown, N. Y.
WPRO	*	100	---	Manitowoc, Wis.
WQDX	*	100	5	Providence, R. I.
WRBO	†	100	---	Thomasville, Ga.
WSBC	†	100	+	Greenville, Miss.
WSEN	†	100	4	Chicago, Ill.
WSIX	*	100	---	Columbus, Ohio
WSOC	†	100	---	Springfield, Tenn.
WTAX	†	100	2	Gastonia, N. C.
XEX	†	500	---	Springfield, Ill.
				Mexico City

				Western Ontario "Better Radio" Club
				James S. Neill & Sons, Ltd.
				G. C. Chandler
				R. L. MacAdam
				Donald Lewis Hathaway
				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.
				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
				Great Southern Land Co., Inc.
				Beardsley Specialty Co.
				Anderson Broadcasting Corp.
				Wm. C. Forrest
				Monmouth Broadcasting Co.
				Bucknell University
				Gadsden Broadcasting Co., Inc.
				Mansfield Broadcasting Assn.
				Lutheran Assn. of Ithaca
				Havens & Martin, Inc.
				Peter J. Prinz
				A. E. Newton
				Francis M. Kadow
				Cherry & Webb Broadcasting Co.
				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

CMBY	--	350	1225	Havana, Cuba
KFKU	*	500	1	Lawrence, Kansas
KTW	*	1000	2	Seattle, Wash.
KWSC	*	1000	+2	Pullman, Wash.
WCAD	*	500	D	Canton, N. Y.
WCAE	*	1000	R	Pittsburgh, Pa.
WDAE	*	1000	C	Tampa, Fla.
WREN	*	1000	1B	Lawrence, Kansas

				Callejas-Coscultuela
				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

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

				Manuel Cruz
				Anchorage Radio Club
				New Mexico Broadcasting Co.
				Pacific Broadcasting Corp.
				Shepard Broadcasting Service, Inc.
				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	†	250	1+	Twin Falls, Idaho
WACO	†	1000	1C	Waco, Texas
WXYZ	†	1000	C	Detroit, Mich.

				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

1250 kilocycles 239.9 meters

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

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

1260 kilocycles 238.0 meters

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

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

1270 kilocycles 236.1 meters

CMCU	--	250	---	Havana, Cuba
KGCA	†	50	2D	Decorah, Iowa
KOL	†	1000	C	Seattle, Wash.
KVOR	*	1000	C	Colorado Springs, Colo.
KWLC	*	100	2D	Decorah, Iowa
WASH	*	500	a	Grand Rapids, Mich.
WEAI	*	1000	D	Ithaca, N. Y.
WFBR	--	500	N	Baltimore, Md.
WJDX	*	1000	N	Jackson, Miss.
WOOD	†	500	a	Grand Rapids, Mich.

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

1280 kilocycles 234.2 meters

CMCW	--	150	1285	Havana, Cuba
KFBB	*	1000	+	Great Falls, Mont.
WCAM	*	500	1	Camden, N. J.
WCAP	*	500	1	Asbury Park, N. J.
WDOD	*	1000	+C	Chattanooga, Tenn.
WIBA	*	500	+N	Madison, Wis.
WOAX	--	500	1	Trenton, N. J.
WRR	†	500	C	Dallas, Texas

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

1290 kilocycles 232.4 meters

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

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

KCYS.  
1310  
MTRS.  
228.9  
DIAL

1300 kilocycles 230.6 meters

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

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

1310 kilocycles 228.9 meters

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

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

14

## INDEX BY FREQUENCIES AND DIAL NUMBERS

<del>KFXJ</del>	†	100		Grand Junction, Colo.	Western Slope Broadcasting Co.
KFXR	†	100	+	Oklahoma City	Exchange Ave. Baptist Church
KGBX	*	100	---	St. Joseph, Mo.	KGBX, Inc.
<del>KGCX</del>	†	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
<del>KMED</del>	†	100	---	Medford, Ore.	Mrs. W. J. Virgin
KRMD	†	50	X	Shreveport, La.	Radio Station KRMD, Inc.
KTLC	*	100	---	Houston, Texas	Houston Broadcasting Co.
KTSM	†	100	2	El Paso, Texas	W. S. Bledsoe & W. T. Blackwell
<del>KXRO</del>	†	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.
WFDF	*	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.
WTEL	*	100	4	Philadelphia, Pa.	Foulkrod Radio Engineering Co.
WTJS	†	100	+	Jackson, Tenn.	Sun Publishing Co.
WTSL	†	100	---	Laurel, Miss.	G. A. Houseman
XEFB	--	50	1315	Monterrey, N. L.	Quintanilla y Stevenson

### 1320 kilocycles 227.1 meters

--	--	--

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


### 1330 kilocycles 225.4 meters

--	--	--

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


### 1340 kilocycles 223.7 meters

--	--	--

CMCG	--	30	1345	Havana, Cuba	Jose Justo Moran
CMCR	--	150	1345	Havana, Cuba	Aurelio Hernandez
CMCY	--	50	1345	Havana, Cuba	M. D. Aufran
KFPW	†	50	D	Fort Smith, Ark.	Southwestern Hotels Co.
<del>KFPY</del>	*	1000	C	Spokane, Wash.	Symons Broadcasting Co.
WCOA	*	500	---	Pensacola, Fla.	Pensacola Broadcasting Co.
WSPD	*	1000	C	Toledo, Ohio	Toledo Broadcasting Co.


### 1350 kilocycles 222.1 meters

--	--	--

<del>KIDO</del>	†	1000	---	Boise, Idaho	Boise Broadcasting Station
<del>KWK</del>	†	1000	B	St. Louis, Mo.	Greater St. Louis Brdctg. Corp.
WAWZ	*	250	1	Zarephath, N. J.	Pillar of Fire
WBX	--	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.


INDEX BY FREQUENCIES AND DIAL NUMBERS

1360 kilocycles 220.4 meters

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


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


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.  
W. N. Parker and H. H. Metcalfe  
Piedmont Broadcasting Corp.  
Baltimore Broadcasting Corp.  
WDAS Broadcasting Station, Inc.  
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	---	150	1382	Camaguey, Cuba
KOH	---	500	C	Reno, Nevada
KQV	†	500	2	Pittsburgh, Pa.
KSO	*	500	1	Clarinda, Iowa
WKBH	*	1000	1C	La Crosse, Wis.
WSMK	*	200	2	Dayton, Ohio
XETB	--	125	---	Torreón, Coah.


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

KLRA	*	1000	1C	Little Rock, Ark.
KOY	†	500	C	Phoenix, Arizona
KUOA	†	1000	1	Fayetteville, Ark.
WHK	*	1000	C	Cleveland, Ohio


Arkansas Broadcasting Co.  
Nielsen Radio & Sporting Goods Co.  
University of Arkansas  
Radio Air Service Corp.

1400 kilocycles 214.2 meters

CMBI	--	30	1405	Havana, Cuba
CMBN	--	30	1405	Havana, Cuba
CMCH	--	15	1405	Havana, Cuba]


Francisco Mayorquim  
Armado Romeu  
Hernani Torralbas

CUT OUT ON  
DOTTED LINES

## INDEX BY FREQUENCIES AND DIAL NUMBERS

CMMCM	--	15	1405	Havana, Cuba
KLO	*	500	---	Ogden, Utah
KOCW	*	250	+	Chickasha, Okla.
WBAA	†	500	1+	Lafayette, Ind.
WBBC	*	500	2	Brooklyn, N. Y.
WCGU	*	500	2	Brooklyn, N. Y.
WCMA	†	500	1	Culver, Ind.
WFOX	--	500	2	Brooklyn, N. Y.
WKBF	†	500	1	Indianapolis, Ind.
WLTH	*	500	2	Brooklyn, N. Y.
XEP	--	200	---	Laredo, Mexico

Martinez-Madico  
 Interstate Broadcasting Corp.  
 College for Women  
 Purdue University  
 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	Rockford, Ill.
KGRS	*	1000	1	Amarillo, Texas
WAAB	*	500	C	Boston, Mass.
WBGM	*	500	C	Bay City, Mich.
WDAG	*	1000	1	Amarillo, Texas
WHBL	*	500	4	Sheboygan, Wis.
WHIS	†	250	2	Bluefield, W. Va.
WODX	*	500	3C	Mobile, Ala.
WRBX	*	250	2	Roanoke, Va.
WSFA	†	500	3C	Montgomery, Ala.

--	--	--

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

### 1420 kilocycles 211.1 meters

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

--	--	--

Alamo Broadcasting Co.  
 Benson Polytechnic Institute  
 North Mississippi Broadcasting Corp.  
 Reporter Printing Co.  
 Frank E. Hurt  
 Albert H. Scherman  
 T. E. Kirksey  
 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  
 WBHS, Inc.  
 Enquirer-News Co.  
 Americus Broadcasting Co.  
 Erie Dispatch-Herald  
 Raymond G. Hammett  
 Tupper Lake Broadcasting Co. Inc.,  
 WHFC, Inc.  
 Delaware Broadcasting Co., Inc.  
 Valdemar Jensen  
 Marius Johnson  
 WKBI, Inc.  
 WLBV Broadcasting Co.  
 Michigan Broadcasting Co., Inc.  
 Edwin Dudley Aber  
 Paducah Broadcasting Co.  
 Voice of South Carolina  
 Associated Broadcasting Corp.

### 1430 kilocycles 209.7 meters

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

--	--	--

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

KLS	*	250	D	Oakland, Cal.
WBIG	*	500	C	Greensboro, N. C.

--	--	--

Warner Bros.  
 North Carolina Broadcasting Co.

4



## 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

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

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

National Battery Broadcasting Co.  
WJSV, Inc.

--	--	--

### 1470 kilocycles 204.0 meters

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

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

Midland Broadcasting Company  
L. B. Wilson, Inc.

--	--	--

### 1500 kilocycles 199.9 meters

CMBL	--	20	---	Havana, Cuba
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.
WL BX	*	100	1	Long Island City, N. Y.
WLOE	*	100	+	Boston, Mass.
WMB A	†	100	---	Newport, R. I.
WMBQ	*	100	1	Brooklyn, N. Y.
WMIL	†	100	1	Brooklyn, N. Y.
WMPC	†	100	---	Lapeer, Mich.
WNBF	*	100	---	Binghamton, N. Y.
WOP I	*	100	---	Bristol, Tenn.
WPEN	*	100	+	Philadelphia, Pa.
WRDW	*	100	---	Augusta, Ga.
WYSB	†	100	---	Rutland, Vt.
WWR L	*	100	1	Woodside, N. Y.
WWSW	*	100	---	Pittsburgh, Pa.
XETZ	--	100	---	Covoacan, D. F.
-----	--	100	CP	Kosciusko, Miss.

Julio C. Hidalgo  
Gali-Sardinas  
Tomas Basail  
Santa Barbara Broadcasters, Ltd.  
Eagle Broadcasting Co., Inc.  
Red River Broadcasting Co., Inc.  
Grant City Park Corp.  
East Texas Brdcstg. Co.  
Hilliard Co., Inc.  
KNOW Broadcasting Co.  
A. P. Miller  
Wescoast Broadcasting Co.  
J. S. Edwards  
E. R. Irey and F. M. Bowles  
Rome Broadcasting Corp.  
Knox Battery & Electric Co.  
K. L. Ashbacher  
John N. Brahy  
Boston Broadcasting Co.  
LeRoy Joseph Beebe  
Paul J. Gollhofer  
Arthur Faske  
First M. P. Church  
Howitt, Wood Radio Co., Inc.  
Radiophone Brdcstg. Station, Inc.  
Wm. Penn Broadcasting Co.  
Musicove, Inc.  
Phillp 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		Keys.
Anniston O-22	100	WFDW	1420
Birmingham O-21	5000	WAPI	N 1140
	500	WBRC	N 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	100	KFOD	1230
Ketchikan	500	KGBU	900

## ARIZONA

Flagstaff M-7	100	KFXY	1420
Jerome M-6	100	KCRJ	1310
Phoenix N-6	500	KOY	N 1390
	500	KTAR	N 620
Prescott M-6	100	KPJM	1500
Tucson O-7	400	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	4000	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	400	KRE	1370
Beverly Hills M-3	500	KMPC	710
Burbank M-3	500	KELW	780
Culver City M-3	250	KFVD	1000
El Centro N-4	400	KXO	1500
Fresno K-2	100	KMJ	1210
Hollywood M-3	1000	KFWB	950
	500	KMTR	570
	500	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
	100	KGFJ	1200
	1000	KHJ	C 900
	500	KRKC	1120
Oakland J-1	500	KTM	780
	250	KLS	1440
	500	KLX	880
	500	KROW	930
Pasadena M-3	50	KPPC	1210
Sacramento J-2	100	KFBK	1310
San Bernardino M-3	100	KFXM	1210
San Diego N-3	500	KFSD	N 600
	500	KGB	N 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	4000	KVOR	C 1270
Denver K-11	500	KFEL	920
	500	KFXF	920
	1000	KLZ	C 560
	12500	KOA	N 830
	500	KPOF	880
Fort Morgan J-11	100	KGEW	1200
Grand Junction K-9	100	KFXJ	1310
Greeley J-11	500	KFKA	880
Pueblo L-11	250	KGFH	1320
Trinidad L-11	100	KGIW	1420
Yuma J-12	100	KGEG	1200

## CONNECTICUT

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

## DELAWARE

Wilmington J-26	250	WDEL	1120
	100	WILM	1420

## DISTRICT OF COLUMBIA

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

## FLORIDA

Clearwater R-24	1000	WFLA	N 620
Gainesville Q-24	5000	WRUF	C 830
Jacksonville Q-24	1000	WTOX	N 900
Miami T-25	1000	WTOX	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	50	WENC	1420
Athens O-23	500	WTFC	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	WTOC	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	1420
Pocatello H-7	250	KSEI	900
Sand Point D-6	100	KGKX	1420
Twin Falls H-6	250	KTFI	1240

# INDEX BY LOCATIONS WITH MAP KEY

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

## ILLINOIS

	Watts		Keys.
Carthage J-18	50	WCAZ	1070
Chicago I-20	10000	KFKX	1020
	10000	KYW N	1020
	500	WAAF	920
	25000	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
	5000	WMBI	1080
	500	WPCC	560
	100	WSBC	1210
Cicero I-20	100	WEHS	1420
	100	WHFC	1420
	100	WKBI	1420
Decatur K-19	100	WJBL	1200
Galesburg J-18	100	WKBS	1310
Harrisburg L-19	100	WBEQ	1210
Joliet I-19	100	WCLS	1310
	100	WKBB	1310
La Salle J-19	100	WJBC	1200
Mooseheart I-19	20000	WJJD	1130
Peoria Heights J-19	500	WMBD C	1440
Quincy K-18	500	WTAD	1440
Rockford I-19	500	KFLV	1410
Rock Island I-18	100	WHBF	1210
Springfield K-19	100	WCBS	1210
	100	WTAX	1210
Tuscola K-20	100	WDZ	1070
Urbana J-20	250	WILL	890
Zion I-20	5000	WCBD	1080

## INDIANA

Anderson J-21	100	WHBU	1210
Connersville 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	4370
	10000	WOWO C	1160
Gary I-20	1000	WJKS	1360
Hammond I-20	100	WVAE	1200
Indianapolis J-21	1000	WFBM C	1230
	500	WKBF	1400
Lafayette J-20	500	WBAA	1400
Muncie J-21	50	WLBC	1310
South Bend I-20	100	WFAM	1200
	500	WSBT C	1230
Terre Haute K-20	100	WBOW	1310

## IOWA

Ames I-17	5000	WOI	640
Boone I-17	100	KFGQ	1310
Cedar Rapids I-18	100	KWCR B	1420
Clarinda J-16	500	KSO	1380
Council Bluffs J-16	1000	KOIL B	1260
Davenport I-18	5000	WOC R	1000
Decorah H-18	50	KGCA	1270
	100	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	400	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	140	KGNO	1210
Kansas City K-16	100	WLBF	1420
Lawrence K-16	500	KFKU	1220
	1000	WREN B	1220
Manhattan K-15	500	KSAC	580
Milford K-14	5000	KFBI	1050
Topeka K-16	1000	WIBW C	580
Wichita L-15	1000	KFH C	1300

## KENTUCKY

Covington K-22	5000	WCKY N	1490
Hopkinsville M-20	1000	WFTW C	940
Louisville L-21	4000	WHAS N	820
	250	WLAP C	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	WJWB	1200
	500	WSMB N	1320
	10000	WWL	850
Shreveport P-17	50	KRMD	1310
	1000	KTBS N	1450
	100	KWEA	1210
	4000	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	WFBR R	1270
Cumberland J-25	100	WTBO	1420

## MASSACHUSETTS

Boston G-28	500	WAAB C	1410
	1000	WBIS	1230
	25000	WBZ B	990
	1000	WEEI R	590
	1000	WHDH	830
	100	WLOE	1500
	1000	WNAC C	1230
Fall River H-28	250	WSAR	1450
Lexington G-28	100	WLEY	1370
Needham G-28	500	WBOS	920
New Bedford H-28	100	WNBH	1310
Springfield H-27	1000	WBZA B	990
Worcester G-28	100	WORC C	1200
	250	WTAG R	580

## MICHIGAN

Battle Creek I-21	50	WELL	1420
Bay City H-22	500	WBCM C	1410
Calumet E-19	100	WHDF	1370
Detroit H-22	50	WJBK	1370
	10000	WJR B	750
	100	WMBC	1420

# INDEX BY LOCATIONS WITH MAP KEY

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

Detroit H-22	1000	WWJ	R	920
	1000	WXYZ	C	1240
East Lansing H-21	1000	WKAR		1040
Flint H-22	100	WFDF		1310
Grand Rapids H-21	500	WASH		1270
	500	WOOD		1270
Ironwood F-18	100	WJMS		1420
Jackson I-21	100	WIBM		1370
Kalamazoo I-21	1000	WKZO		590
Lapeer H-22	100	WMPC		1500
Ludington H-20	50	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	100	WGCM		1210
Hattiesburg Q-19	100	WPFB		1370
Jackson P-19	1000	WJDX	N	1270
Kosciusko O-19	100	-----		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		1430
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	KGFW		1310
Lincoln J-15	5000	KFAB	C	770
	100	KFOR		1210
	500	WCAJ		590
Norfolk I-15	1000	WJAG		1060
North Platte J-13	500	KGNF		1430
Omaha J-15	500	WAAW		660
	1000	WOW	R	590
Scottsbluff I-11	100	KGKY		1500
York J-15	500	KGBZ		930

## 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		1250
	250	WGCP		1250
	250	WNJ		1450
	5000	WOR		710
Paterson I-27	1000	WODA		1250
Red Bank I-27	100	WBI		1210
Trenton I-26	500	WOAX		1280
Zarephath I-27	250	WAWZ		1350

## NEW MEXICO

Albuquerque N-7	250	KGGM		1230
Clovis N-11	100	KICA		1370
Raton M-11	50	KGFL		1370
State College P-9	20000	KOB		1180

## NEW YORK

Albany H-27	500	WOKO	C	1430
Auburn H-25	100	WMBO		1310
Binghamton H-26	100	WNBF		1500
Brooklyn I-27	500	WBCC		1400
	1000	WBRR		1300
	500	WCGU		1400
	500	WFOX		1400
	500	WLTH		1400
	100	WMBQ		1500
	100	WMIL		1500
Buffalo H-24	1000	WBEN	R	900
	100	WBR		1310
	1000	WGR	C	550
	5000	WKBW	C	1480
	50	WSVS		1370
	500	WCAD		1220
Freeport I-27	100	WGBB		1210
Glens Falls G-27	50	WBGF		1370
Ithaca H-25	1000	WEAI		1270
	50	WLCT		1210
	100	WMRJ		1210
Jamaica H-27	100	WOCL		1210
Jamestown H-24	50	WOCB		1210
Long Island City I-27	100	WLBC		1500
New York City I-27	50000	WABC	C	860
	250	WBNX		1350
	50000	WBOQ		860
	250	WCDA		1350
	50000	WEAF	R	660
	500	WEVD		1300
	1000	WFAB		1300
	500	WINS		1180
	250	WHN		1010
	30000	WJZ	B	760
	5000	WLWL		1100
	500	WMCA		570
	250	WMSG		1350
	500	WNYC		570
	1000	WOV		1130
	250	WPAP		1010
	500	WPCH		810
	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	5000	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	WBTV	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
	5000	WLW	B	700
Cleveland I-23	500	WSAJ	R	1330
	500	WGAR	B	1450
	1000	WHK	C	1390
	500	WJAY		610
Columbus J-22	5000	WTAM	R	1070
	500	WAIU		640
	500	WCAH	C	1430
	750	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
	4000	WKY	N	900
Ponca City M-15	100	WBZZ		1200
Shawnee N-15	100	KVFF		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		620
	1000	KOIN	N	940
	500	KTBR		1300
	500	KWJJ		1060
	100	KXL		1420

## PENNSYLVANIA

Allentown I-26	250	WCBA		1440
	250	WSAN		1440
Altoona I-25	100	WFBG		1310
Carbondale H-26	10	WNBW		1200
Elkins Park I-26	25	WIBG		930
Erie H-24	100	WERE		1420
Grove City I-24	100	WSAJ		1310
Harrisburg I-25	500	WBAK		1430
	100	WCOD		1200
	500	WHP	C	1430
Johnstown J-24	100	WJAC		1310
Lancaster I-26	100	WGAL		1310
	100	WKJC		1200
	100	WJBU		1210
Lewisburg I-26	500	WLBW	C	1260
Oil City I-24	1000	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		1310
Pittsburgh J-24	5000	KDKA	B	980
	500	KOV		1380
	1000	WCAE	R	1220
	1000	WJAS	C	1290
	100	WWSW		1500
Reading I-26	1000	WEEU		830
	100	WRAW		1310
Scranton H-26	250	WGBI		880
	250	WQAN		880
State College I-25	500	WPSC		1230
Washington J-24	100	WNBO		1200
Wilkes-Barre I-26	100	WBAX		1210
	100	WBRE		1310
Williamsport I-25	100	WRAK		1370
	100	-----		1370
York J-26	1000	WORK		1000

## PHILIPPINES

Cebu	500	KZRC		937.5
Manila	1000	KZKA		1110
	1000	KZRM		618.5

## PORTO RICO

San Juan W-34	250	WKAQ		890
---------------	-----	------	--	-----

## RHODE ISLAND

Newport H-28	100	WMBA		1500
Providence H-28	250	WEAN	C	780
	250	WJAR	R	890
	100	WPRO		1210

## SOUTH CAROLINA

Charleston O-25	500	WCSC		1360
Columbia N-24	500	WIS	N	1010
Spartanburg N-23	100	WSPA		1420

# INDEX BY LOCATIONS WITH MAP KEY

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

SOUTH DAKOTA		Watts	Keys.
Brookings H-15	500	KFDY	550
Huron H-14	100	KGDY	1200
Mitchell H-14	100	KGDA	1370
Pierre G-13	200	KGFX	630
Rapid City H-12	100	WCAT	1200
Sioux Falls H-15	2500	KSOO	1110
Vermillion I-15	500	KUSD	890
Watertown G-15	100	KGCR	1210
Yankton I-15	1000	WNAX C	570

TENNESSEE		Watts	Keys.
Bristol L-23	100	WOPI	1500
Chattanooga N-21	1000	WDDO 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		Watts	Keys.
Abilene P-13	100	KFYO	1420
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 O-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
San Angelo Q-13	100	KGKL	1370
San Antonio R-14	100	KABC	1420
	100	KMAC	1370
	100	KONO	1370
	1000	KTSA C	1290
	30000	WOAI N	1190
Tyler P-16	100	KGKB	1500
Waco Q-15	1000	WACO C	1240
Wichita Falls O-14	250	KGKO	570

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

VERMONT		Watts	Keys.
Burlington F-27	100	WCAX	1200
Rutland G-27	100	WSYB	1500
St. Albans F-27	100	WQDM	1370
Springfield G-27	10	WNBX	1200
Waterbury F-27	50	WDEV	1420

VIRGINIA		Watts	Keys.
Alexandria K-26	4000	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
Norfolk News L-26	100	WGH	1310
Norfolk L-26	500	WPOR	780
	500	WTAR C	780
Petersburg L-26	100	WLBG	1200
Richmond K-26	100	WBBL	1210
	100	WMBG C	1210
	5000	WRVA N	1110
Roanoke L-24	250	WDBJ C	930
	250	WRBX	1410

WASHINGTON		Watts	Keys.
Aberdeen D-2	400	KXRO	1310
Bellingham C-3	100	KVOS	1200
Everett C-3	50	KFBL	1370
Olympia D-3	100	KGY	1200
Pullman E-5	4000	KWSC	1220
Seattle C-3	5000	KJR N	970
	1000	KOL C	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 C	1470
	1000	KHQ N	590
Tacoma D-3	500	KMO	860
	1000	KVI C	570
Walla Walla E-5	100	KUJ	1370
Wenatchee D-4	50	KPQ	1500
Yakima D-4	400	KIT	1310

WEST VIRGINIA		Watts	Keys.
Bluefield L-24	250	WHIS	1410
Charleston K-23	250	WOBU	580
Fairmont J-24	250	WMMN	890
Huntington K-23	250	WSAZ	580
Wheeling J-24	5000	WWVA C	1160

WISCONSIN		Watts	Keys.
Eau Claire G-18	1000	WTAQ C	1330
Fond du Lac H-19	100	KFIZ	1420
Green Bay G-19	100	WHBY	1200
Janesville I-19	100	WCLO	1200
La Crosse H-18	1000	WKBH C	1380
Madison H-19	750	WHA	940
	500	WIBA N	1280
Manitowoc H-20	100	WOMT	1210
Milwaukee H-19	250	WHAD	1120
	250	WISN C	1120
	1000	WTMJ N	620
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	WEBC N	1290

WYOMING		Watts	Keys.
Casper H-10	100	KDFN	1210

## CANADA

ALBERTA		Watts	Keys.
Calgary B-7	500	CFAC	690
	10000	CFCN	985
	500	CJ CJ	690

# INDEX BY LOCATIONS WITH MAP KEY

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

Edmonton A-8	250	CHMA	580
	500	CJCA	745
	500	CKUA	580
Lethbridge C-8	100	CJOC	1120
Red Deer A-8	1000	CKLC	840
	1000	CNRD	840

## BRITISH COLUMBIA

Chilliwack B-3	100	CHWK	665
Kamloops B-5	100	CFJC	1120
Kelowna C-5	100	CKOV	1200
Trail C-6	25	10-AT	1155
Vancouver B-3	100	CHLS	730
	500	CJOR	1210
	100	CKCD	730
	50	CKFC	730
	100	CKMO	730
	100	CKWX	730
	500	CNRV	1030
	500	CFCT	630

## VICTORIA C-3 MANITOBA

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

## NEW BRUNSWICK

Fredericton D-29	50	CFNB	1210
Moncton D-30	500	CNRA	630
St. John D-30	500	CFBO	890

## NOVA SCOTIA

Glace Bay C-32	2000	VAS	685
Halifax E-31	500	CHNS	815
	500	CNRH	815
	100	VCX	690
Sydney C-32	50	CJCB	880
Wolfville D-31	50	CKIC	1010

## ONTARIO

Brantford H-23	15	10-BO	1200
Chatham H-22	250	CFCO	1210
Cobalt E-23	100	CKMC	1210
Ft. William E-19	50	CKPR	890
Hamilton H-24	50	CHML	880
	500	CKOC	635
Kingston G-25	50	CFCC	930
London H-23	5000	CJGC	910
	5000	CNRL	910
North Bay E-23	100	CFCH	930
Ottawa F-25	100	CKCO	890
	500	CNRO	600
	100	CFLC	915
Prescott F-25	100	CKPC	880
Preston H-23	100	CKTB	635
St. Catherines H-24	500	CFA	1120
Toronto G-24	500	CFCL	580
	7000	CFRB	690
	500	CKL	580
	5000	CKGW	840
	500	CKNC	960
	500	CNRT	1120
	4000	CNRX	690
	5000	CPRY	840
	100	CKCR	645
	1000	CKWO	540
	15	10-BP	1200

## PRINCE EDWARD ISLAND

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

## QUEBEC

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

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
-----------------	----	-----	-----

### HONDURAS

Tegucigalpa CC-21	2300	HRB	1370
-------------------	------	-----	------

### SALVADOR

Salvador CC-19	500	RUS	664
----------------	-----	-----	-----

## MEXICO

### AGUASCALIENTES

Aguascalientes W-10	250	XFC	810
---------------------	-----	-----	-----

### BAJA CALIFORNIA

Tijuana N-3	300	XEFD	845
-------------	-----	------	-----

### CHIHUAHUA

Chihuahua R-9	100	XEFI	1000
	250	XFF	875
	101	XEJ	1000
Juarez P-9	5000	XEQ	750

### COAHUILA

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

### D. F.

Coyoacan Y-13	100	XETZ	1500
Mexico City Y-13	1000	XEB	1030
	250	XEFA	1250
	250	XEG	1070
	101	XEK	990
	1000	XEN	711
	5000	XEO	940
	500	XETA	1140
	100	XETQ	1230
	2500	XETR	610
	5000	XEW	910
	500	XEX	1210
	500	XEZ	780
	2000	XFG	638
	1000	XFI	818
	500	XFX	867
Toluca. Y-12	50	XEC	1000

CFAC 690	CKCK 960	CMCB 1070	CNRL 910
Calgary, Alta.	Regina, Sask.	Havana, Cuba	London, Ont.
CFBO 890	CKCL 580	CMCD 925	CNRM 730
St. John, N. B.	Toronto, Ont.	Havana, Cuba	Montreal, Que.
CFCA 1120	CKCO 890	CMCF 890	CNRO 600
Toronto, Ont.	Ottawa, Ont.	Havana, Cuba	Ottawa, Ont.
CFCF 1030	CKCR 645	CMCG 1345	CNRQ 880
Montreal, Que.	Waterloo, Ont.	Havana, Cuba	Quebec, Que.
CFCH 930	CKCV 880	CMCH 1405	CNRR 960
North Bay, Ont.	Quebec, Que.	Havana, Cuba	Regina, Sask.
CFCL 580	CKFC 730	CMCJ 630	CNRS 910
Toronto, Ont.	Vancouver, B. C.	Havana, Cuba	Saskatoon, Sask.
CFCN 985	CKGW 840	CMCM 1405	CNRT 1120
Calgary, Alta.	Toronto, Ont.	Havana, Cuba	Toronto, Ont.
CFCO 1210	CKIC 1010	CMCN 925	CNRV 1030
Chatham, Ont.	Wolfville, N. S.	Havana, Cuba	Vancouver, B. C.
CFCT 630	CKLC 840	CMCO 660	CNRW 780
Victoria, B. C.	Red Deer, Alta.	Havana, Cuba	Winnipeg, Man.
CFCY 580	CKMC 1210	CMCQ 1150	CNRX 690
Ch'tottet'n, P.E.I.	Cobalt, Int.	Havana, Cuba	Toronto, Ont.
CFJC 1120	CKMO 730	CMCR 1345	CPRY 840
Kamloops, B. C.	Vancouver, B. C.	Havana, Cuba	Toronto, Ont.
CFLC 915	CKNC 960	CMCU 1270	HHK 920
Prescott, Ont.	Toronto, Ont.	Havana, Cuba	Port au Prince, H.
CFNB 1210	CKOC 635	CMCW 1285	HIX 630
Fredericton, N.B.	Hamilton, Ont.	Havana, Cuba	Santo Domingo
CFQC 910	CKOV 1200	CMCY 1345	HRB 1370
Saskatoon, Sask.	Kelowna, B. C.	Havana, Cuba	Tequigalpa
CFRB 690	CKPC 880	CMDC 660	KABC 1420
Toronto, Ont.	Preston, Ont.	Havana, Cuba	San Antonio, Tex.
CFRC 930	CKPR 890	CMGB 1205	KARK 890
Kingston, Ont.	Ft. William, Ont.	Matanzas, Cuba	Lit. Rock, Ark.
CHCK 960	CKTB 635	CMGC 820	KBPS 1420
Ch'tottet'n, P.E.I.	St. Cath., Ont.	Matanzas, Cuba	Portland, Ore.
CHGS 1120	CKUA 580	CMGE 1375	KBTM 1200
Sum'rside, P.E.I.	Edmonton, Alta.	Cardenas, Cuba	Paragould, Ark.
CHLS 730	CKWO 540	CMGF 977	KCMC 1420
Vancouver, B. C.	Windsor, Ont.	Matanzas, Cuba	Texarkana, Ark.
CHMA 580	CKWX 730	CMGH 1050	KCRC 1370
Edmonton, Alta.	Vancouver, B. C.	Matanzas, Cuba	Enid, Okla.
CHML 880	CKX 930	CMGI 1150	KCRJ 1310
Hamilton, Ont.	Brandon, Man.	Colon, Cuba	Jerome, Ariz.
CHNS 815	CKY 780	CMHC 790	KDB 1500
Halifax, N. S.	Winnipeg, Man	Tuinucu, Cuba	S. Barbara, Cal.
CHRC 645	CMAB 1249	CMHD 950	KDFN 1210
Quebec, Que.	Pinar del Rio, Cu	Caibarien, Cuba	Casper, Wyo.
CHWC 960	CMBC 965	CMHI 1110	KDKA 980
Regina, Sask.	Havana, Cuba	Santa Clara, Cu	Pittsburgh, Pa.
CHWK 665	CMBD 965	CMHJ 645	KDLR 1210
Chilliwack, B. C.	Havana, Cuba	Cienfuegos, Cuba	Devils Lake, N.D.
CHYC 730	Havana, Cuba	CMJC 1382	KDYL 1290
Montreal, Que.	Havana, Cuba	Camaguey, Cuba	Salt Lake City
CJBR 960	CMBI 1405	CMJE 1180	KECA 1430
Regina, Sask.	Havana, Cuba	Camaguey, Cuba	Los Angeles, Cal.
CJCA 745	CMBL 1500	CMJF 930	KELW 780
Edmonton, Alta.	Havana, Cuba	Camaguey, Cuba	Burbank, Cal.
CJCB 880	CMBN 1405	CMJG 1200	KERN 1200
Sydney, N. S.	Havana, Cuba	Camaguey, Cuba	Bakersfield, Cal.
CJCC 690	CMBQ 1500	CMJH 1017	KEX 1180
Calgary, Alta.	Havana, Cuba	Ciego de Avila, C.	Portland, Ore.
CJGC 910	CMBR 1500	CMK 730	KFAB 770
London, Ont.	Havana, Cuba	Havana, Cuba	Lincoln, Nebr.
CJGX 630	CMBS 790	CMKC 1034	KFAC 1300
Yorkton, Sask.	Havana, Cuba	Santiago, Cuba	Los Angeles, Cal.
CJOC 1120	CMBT 790	CMQ 1150	KFBB 1280
Lethbridge, Alta.	Havana, Cuba	Havana, Cuba	Great Fis., Mont.
CJOR 1210	CMBW 1010	CMW 588	KFBI 1050
Vancouver, B. C.	Havana, Cuba	Havana, Cuba	Milford, Kans.
CJRM 665	CMBY 1225	CMX 885	KFBK 1310
Moose Jaw, Sask.	Havana, Cuba	Havana, Cuba	Sacramento, Cal.
CJRW 665	CMBZ 1010	CNRA 630	KFLB 1370
Fleming, Sask.	Havana, Cuba	Moncton, N. B.	Everett, Wash.
CKAC 730	CMC 842	CNRD 840	KFDM 560
Montreal, Que.	Havana, Cuba	Red Deer, Alta.	Beaumont, Tex.
CKCD 730	CMCA 1235	CNRH 815	KFDY 550
Vancouver, B. C.	Havana, Cuba	Halifax, N. S.	Brookings, S. D.
CKCI 645			
Quebec, Que.			



KFEL 920	KFXD 1420	KGHI 1200	KMAC 1370
Denver, Colo.	Nampa, Idaho	Little Rock, Ark.	San Antonio, Tex.
KFEQ 680	KFXF 920	KGHL 950	KMBC 950
St. Joseph, Mo.	Denver, Colo.	Billings, Mont.	Kan. City Mo.
KFGQ 1310	KFXJ 1310	KGIB 1360	KMED 1310
Boone, Iowa	Grand Junc., Col.	Butte, Mont.	Medford, Ore.
KFH 1300	KFXM 1210	KGIW 1420	KMJ 1210
Wichita, Kansas	San Ber'd no, Cal.	Trinidad, Colo.	Fresno, Cal.
KFI 640	KFKR 1310	KGIX 1420	KMLB 1200
Los Angeles, Cal.	Oklahoma City	Las Vegas, Nev.	Monroe, La.
KFIO 1120	KFFX 1420	KGIZ 1500	KMMJ 740
Spokane, Wash.	Flagstaff, Ariz.	Grant City, Mo	Clay Ctr., Nebr.
KFIZ 1420	KFYO 1420	KGKB 1500	KMO 860
Fond du Lac, Wis.	Abilene, Texas	Tyler, Texas	Tacoma, Wash.
KFJB 1200	KFYR 55c	KGKL 1370	KMOX 1090
Marshalltown, Ia.	Bismarck, N. D.	San Angelo, Tex.	St. Louis, Mo.
KFJF 1480	KGA 1470	KGKO 570	KMPC 710
Oklahoma City	Spokane, Wash.	Wichita Flls., Tex.	Beverly Hills, Cal
KFJJ 1210	KGAR 1370	KGKY 1420	KMTR 570
Klamath Falls Ore	Tucson, Arizona	Sand Point, Idaho	Hollywood, Cal.
KFJM 1370	KGB 1330	KKKY 1500	KNOW 1500
Grd. Forks, N.D.	San Diego, Cal.	Scottsbluff, Nebr.	Austin, Tex.
KFJR 1300	KGBU 900	KGMB 1320	KNX 1050
Portland, Ore.	Ketchikan, Al'ka	Honolulu, T. H.	Hollywood, Cal.
KFJZ 1370	KGBX 1310	KGMP 1210	KOA 830
Ft. Worth, Tex.	St. Joseph, Mo.	Elk City, Okla.	Denver, Colo.
KFKA 880	KGBZ 930	KGNF 1430	KOAC 550
Greeley, Colo.	York, Nebr.	No. Platte, Nebr.	Corvallis, Ore.
KFKU 1220	KGCA 1270	KGNO 1210	KOB 1180
Lawrence, Kans.	Decorah, Iowa	Dodge City, Kas.	State Col., N. M.
KFKX 1020	KGCR 1210	KGO 790	KOCW 1400
Chicago, Ill.	Watertown, S. D.	San F'nsciso, Cal.	Chickasha, Okla.
KFLV 1410	KGCU 1240	KGRS 1410	KOH 1380
Rockford, Ill.	Mandan, N. D.	Amarillo, Texas	Reno, Nevada
KFLX 1370	KGCC 1310	KGU 750	KOIL 1260
Galveston, Tex.	Wolf P't, Mont.	Honolulu, Hawaii	Council Bluffs, Ia.
KFMX 1250	KGDA 1370	KGVO 1420	KOIN 940
N'thfield, Minn.	Mitchell, S. D.	Missoula, Mont.	Portland, Ore.
KFNF 890	KGDE 1200	KGW 620	KOL 1270
Shenandoah, Ia.	Fergus Falls, Minn	Portland, Ore.	Seattle, Wash.
KFOR 1210	KGDM 1100	KGY 1200	KOMO 920
Lincoln, Nebr.	Stockton, Cal.	Olympia, Wash.	Seattle, Wash.
KFOX 1250	KGDY 1200	KHJ 900	KONO 1370
Long Beach, Cal.	Huron, S. D.	Los Angeles, Cal.	San Antonio, Tex.
KFPL 1310	KGEEK 1200	KHJ 900	KOOS 1370
Dublin, Texas	Yuma, Colo.	KHQ 590	Marshfield, Ore.
KFPM 1310	KGER 1360	KIC 1370	KORE 1420
Greenville, Texas	Long Beach, Cal.	Clovis, N. M.	Eugene, Ore.
KFPW 1340	KGEW 1200	KICK 1420	KOY 1390
Ft. Smith, Ark.	Ft. Morgan, Colo.	Red Oak, Iowa	Phoenix, Arizona
KFPY 1340	KGEZ 1310	KID 1320	KPCB 650
Spokane, Wash.	Kallspell, Mont.	Idaho Falls, 'da.	Seattle, Wash.
KFQD 1230	KGFF 1420	KIDO 1350	KPJM 1500
Anchorage, Alas.	Shawnee, Okla.	Boise, Idaho	Prescott, Ariz.
KFRC 610	KGFG 1370	KIT 1310	KPO 680
San F'nsciso, Cal.	Oklahoma City	Yakima, Wash.	San F'nsciso, Cal.
KFRU 630	KGFI 1500	KJBS 1070	KPOF 880
Columbia, Mo.	Corp's Ch'sti, Tex	San F'nsciso, Cal.	Denver, Colo.
KFSD 600	KGfJ 1200	KJR 970	KPPC 1210
San Diego, Cal.	Los Angeles, Cal.	Seattle, Wash.	Pasadena, Cal.
KFSG 1120	KGFK 1500	KLCN 1290	KPQ 1500
Los Angeles, Cal.	Moorhead, Minn.	Blytheville, Ark.	Wenatchee, Wash
KFUL 1290	KGFL 1370	KLO 1400	KPRC 920
Galveston, Texas	Raton, N. M.	Ogden, Utah	Houston, Texas
KFUO 550	KGFW 1310	KLPM 1240	KQV 1380
St. Louis, Mo.	Kearney, Nebr.	Minot, N. Dak.	Pittsburgh, Pa.
KFVD 1000	KGFX 630	KLRA 1390	KQW 1010
Culver City, Cal.	Pierre, S. D.	Little Rock, Ark.	San Jose, Cal.
KFVS 1210	KGGG 1420	KLS 1440	KRE 1370
Cape Gir'rd'u, Mo	San F'nsciso, Cal.	Oakland, Cal.	Berkeley, Cal.
KFWB 950	KGGF 1010	KLX 880	KREG 1500
Hollywood, Cal.	Coffeyville, Kans.	Oakland, Cal.	Santa Ana, Cal.
KFWF 1200	KGGM 1230	KLZ 560	KRGV 1260
St. Louis, Mo.	Albuq'rque, N.M.	Denver, Colo.	Harlingen, Texas
KFWI 930	KGHF 1320	KMA 930	KRKD 1120
San F'nsciso, Cal.	Pueblo, Colo.	Shenandoah, Ia.	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 Sioux 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 Sioux Falls, S. D.	KYA 1230 San F'nscisco, 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 F'nscisco, Cal.	KZKA 1110 Manilla, P. I.	WBBZ 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 Fl. 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	WBGF 1370 Glens Falls, N. Y.	WCLS 1310 Joliet, Ill.
KTFI 1240 Twin Falls, Ida.	TGW 570 Guatemala	WBHS 1200 Huntsville, Ala.	WCMA 1400 Culver, Ind.
KTHS 1040 Hot Spgs., Ark.	TICR 911 San Jose, C. R.	WBIG 1440 Greensboro, N. C.	WCOA 1340 Pensacola, Fla.
KTLC 1310 Houston, Texas	TIANRH 980 Heredia, C. R.	WBIS 1230 Boston, Mass.	WCOE 880 Meridian, Miss.
KTM 780 Los Angeles, Cal.	VAS 685 Glace Bay, N. S.	WBMS 1450 Hackensack, N. J.	WCOD 1200 Harrisburg, Pa.
KTRH 1120 Houston, Texas	VCX 690 Halifax, N. S.	WBNX 1350 New York City	WCOH 1210 Yonkers, N. Y.
KTSA 1290 San Antonio, Tex.	VOAS 810 St. John's, N. F.	WBOQ 860 New York City	WCRW 1210 Chicago, Ill.
KTSM 1310 El Paso, Texas	VONA 950 St. John's, N. F.	WBOW 1310 Terre Haute, Ind.	WCSC 1360 Charleston, S. C.
KTW 1220 Seattle, Wash.	VOWR 675 St. Johns, N. F.	WBR 930 Birmingham, Ala.	WCSH 940 Portland, Maine
KUJ 1370 Walla Wal., Wash.	VPN 610 Nassau, B. I.	WBRE 1310 Wilkes-Barre, Pa.	WDAE 1220 Tampa, Fla.
KUOA 1390 Fayetteville, Ark.	WAAB 1410 Boston, Mass.	WBSO 920 Needham, Mass.	WDAF 610 Kansas City, Mo.
KUSD 890 Vermillion, S. D.	WAAF 920 Chicago, Ill.	WBT 1080 Charlotte, N. C.	WDAG 1410 Amarillo, Texas
KVI 570 Tacoma, Wash.	WAAM 1250 Newark, N. J.	WBTM 1370 Danville, Va.	WDAH 1310 El Paso, Texas
KVL 1370 Seattle, Wash.	WAAT 940 Jersey City, N. J.	WBZ 990 Boston, Mass.	WDAS 1370 Philadelphia, Pa.
KVOA 1260 Tucson, Arizona	WAAW 660 Omaha, Nebr.	WBZA 990 Springfield, Mass.	WDAY 940 Fargo, N. D.
KVOO 1140 Tulsa, Okla.	WABC 860 New York City	WCAC 600 Storrs, Conn.	WDBJ 930 Roanoke, Va.
KVOR 1270 Col. Sp'gs, Colo.	WABI 1200 Bangor, Maine	WCAD 1220 Canton, N. Y.	WDBO 1120 Orlando, Fla.
KVOS 1200 Bellingh'm, Wash.	WABZ 1200 New Orleans, La.	WCAE 1220 Pittsburgh, Pa.	WDEL 1120 Wilmington, Del.
KWCR 1420 Cedar Rapids, Ia.	WACO 1240 Waco, Texas	WCAH 1430 Columbus, Ohio	WDEW 1420 Waterbury, Vt.
KWEA 1210 Shreveport, La.	WADC 1320 Akron, Ohio	WCAJ 590 Lincoln, Nebr.	WDGY 1180 Minneapolis, Minn.
KWG 1200 Stockton, Cal.	WAGM 1420 Presque Isle, Me.	WCAL 1250 Northfield, Minn.	WDOD 1280 Chattanooga, Tenn.
KWJJ 1060 Portland, Ore.	WAIU 640 Columbus, Ohio	WCAM 1280 Camden, N. J.	WDRC 1330 Hartford, Conn.
KWK 1350 St. Louis, Mo.	WALR 1210 Zanesville, Ohio	WCAO 600 Baltimore, Md.	

WDSU 1250  
New Orleans, La.  
WDZ 1070  
Tuscola, Ill.  
WEAF 660  
New York City  
WEAI 1270  
Ithaca, N. Y.  
WEAN 780  
Providence, R. I.  
WEAO 670  
Columbus, Ohio  
WEBC 1290  
Superior, Wis.  
WEBQ 1210  
Harrisburg, Ill.  
WEBB 1510  
Buffalo, N. Y.  
WEDC 1210  
Chicago, Ill.  
WEEL 590  
Boston, Mass.  
WEU 630  
Reading, Pa.  
WEHC 1350  
Emory, Va.  
WEHS 1420  
Cicero, Ill.  
WELL 1420  
Battle C'k, Mich.  
WENC 1420  
Americus, Ga.  
WENR 870  
Chicago, Ill.  
WERE 1420  
Erie, Pa.  
WEVD 1300  
New York City  
WEW 760  
St. Louis, Mo.  
WEXL 1310  
Royal Oak, Mich.  
WEAA 600  
Dallas, Texas  
WFAB 1300  
New York City  
WFAM 1200  
So. Bend, Ind.  
WFAN 610  
Philadelphia, Pa.  
WFBC 1200  
Knoxville, Tenn  
WFBE 1200  
Cincinnati, Ohio  
WFBG 1310  
Altoona, Pa.  
WFBL 1360  
Syracuse, N. Y.  
WFBM 1230  
Indianapolis, Ind.  
WFER 1270  
Baltimore, Md.  
WFDF 1310  
Flint, Mich.  
WFDV 1500  
Rome, Ga.  
WFDW 1420  
Anniston, Ala.  
WFEA 1430  
Manchester, N.H.  
WFI 560  
Philadelphia, Pa.  
WFIW 940  
Hopkinsville, Ky.  
WFLA 620  
Clearwater, Fla.

WFOX 1400  
Brooklyn, N. Y.  
W GAL 1310  
Lancaster, Pa.  
WGAR 1450  
Cleveland, Ohio  
WGBB 1210  
Freeport, N. Y.  
WGBF 630  
Evansville, Ind.  
WGBI 880  
Scranton, Pa.  
WGCM 1210  
Gulfport, Miss.  
WGCP 1250  
Newark, N. J.  
WGES 1360  
Chicago, Ill.  
WGH 1310  
Newp't News, Va.  
WGI 1370  
Ft. Wayne, Ind.  
WGN 720  
Chicago, Ill.  
WGP 550  
Buffalo, N. Y.  
WGST 890  
Atlanta, Ga.  
WGY 790  
Schenec'dy, N. Y.  
WHA 940  
Madison, Wis.  
WHAD 1120  
Milwaukee, Wis.  
WHAM 1150  
Rochester, N. Y.  
WHAS 820  
Louisville, Ky.  
WHAT 1310  
Philadelphia, Pa.  
WHAZ 1300  
Troy, N. Y.  
WHB 860  
Kansas City, Mo.  
WHBC 1200  
Canton, Ohio  
WHBD 1370  
Mt. Orab, Ohio  
WHBF 1210  
Rock Island, Ill.  
WHBL 1410  
Sheboygan, Wis.  
WHBQ 1370  
Memphis, Tenn.  
WHBU 1210  
Anderson, Ind.  
WHBY 1200  
Green Bay, Wis.  
WHDF 1370  
Calumet, Mich.  
WHDH 830  
Boston, Mass  
WHDL 1420  
TupperLake, N.Y.  
WHEB 740  
Portsmouth, N.H.  
WHEC 1430  
Rochester, N. Y.  
WHFC 1420  
Cicero, Ill.  
WHIS 1410  
Bluefield, W. Va.  
WHK 1390  
Cleveland, Ohio

WHN 1010  
New York City  
WHO 1000  
Des Moines, Ia.  
WHOM 1450  
Jersey City, N. J.  
WHP 1430  
Harrisburg, Pa.  
WIAS 1310  
Ottumwa, Iowa  
WIBA 1280  
Madison, Wis.  
WIBG 930  
Elkins Park, Pa.  
WIBM 1370  
Jackson, Mich.  
WIBO 560  
Chicago, Ill.  
WIBU 1210  
Poynette, Wis.  
WIBW 580  
Topeka, Kansas  
WIBX 1200  
Utica, N. Y.  
WIC 600  
Bridgeport, Conn  
WIL 1200  
St. Louis, Mo.  
WILL 890  
Urbana, Ill.  
WILM 1420  
Wilmington, Del.  
WINS 1180  
New York City  
WIOD 1300  
Miami, Fla.  
WIP 610  
Philadelphia, Pa.  
WIS 1010  
Columbia, S. C.  
WISN 1120  
Milwaukee, Wis.  
WJAC 1310  
Johnstown, Pa.  
WJAG 1060  
Norfolk, Nebr.  
WJAK 1310  
Elkhart, Ind.  
WJAR 890  
Providence, R. I.  
WJAS 1290  
Pittsburgh, Pa.  
WJAX 900  
Jacksonville, Fla.  
WJAY 610  
Cleveland, Ohio  
WJBC 1200  
La Salle, Ill.  
WJBI 1210  
Red Bank, N. J.  
WJBK 1370  
Detroit, Mich.  
WJBL 1200  
Decatur, Ill.  
WJBO 1420  
New Orleans, La.  
WJBU 1210  
Lewisburg, Pa.  
WJBW 1200  
New Orleans, La.  
WJBY 1210  
Gadsden, Ala.  
WJDX 1270  
Jackson, Miss.

WJJD 1130  
Mooseheart, Ill.  
WJKS 1360  
Gary, Ind.  
WJMS 1420  
Ironwood, Mich.  
WJR 750  
Detroit, Mich.  
WJSV 1460  
Alexandria, Va.  
WJTL 1370  
Atlanta, Ga.  
WJW 1210  
Mansfield, Ohio  
WJZ 760  
New York City  
WKAG 890  
San Juan, P. E.  
WKAR 1040  
E. Lansing, Mich.  
WKAV 1310  
Laconia, N. H.  
WKBB 1310  
Joliet, Ill.  
WKBC 1310  
Birmingham, Ala.  
WKBF 1400  
Indianapolis, Ind.  
WKBH 1380  
La Crosse, Wis.  
WKBI 1420  
Cicero, Ill.  
WKBN 570  
Youngstown, O.  
WKBS 1310  
Galesburg, Ill.  
WKBY 1500  
Connersville, Ind.  
WKBW 1480  
Buffalo, N. Y.  
WKBZ 1500  
Ludington, Mich.  
WKJC 1200  
Lancaster, Pa.  
WKRC 550  
Cincinnati, Ohio  
WKY 900  
Oklahoma City  
WKZO 590  
Kalamazoo, Mich.  
WLAC 1470  
Nashville, Tenn.  
WLAP 1200  
Louisville, Ky.  
WLB 1250  
St. Paul, Minn.  
WLCB 1310  
Muncie, Ind.  
WLBF 1420  
Kansas City, Ka.  
WLBG 1200  
Eltrick, Va.  
WLBL 900  
Stevens Pt., Wis.  
WLWB 1260  
Oil City, Pa.  
WLBX 1500  
L. I. City, N. Y.  
WLBZ 620  
Bangor, Maine  
WL CI 1210  
Ithaca, N. Y.  
WLEY 1370  
Lexington, Mass.

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  
 LWLW 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 Hghts., 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.  
 WMPC 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  
 Bingham'tn, N. Y.  
 WNBH 1310  
 New B'rd, Mass.  
 WNBO 1200  
 Washington, Pa.  
 WNBR 1430  
 Memphis, Tenn.  
 WNBW 1200  
 Carbondale, Pa.  
 WNBX 1200  
 Springfield, Vt.  
 WNBZ 1290  
 Sar'n'c L'ke, N. Y.  
 WNJ 1450  
 Newark, N. J.

WNOX 560  
 Knoxville, Tenn.  
 WNYC 570  
 New York City  
 WOAI 1190  
 San Antonio, Tex.  
 WOAX 1280  
 Trenton, N. J.  
 WOBU 580  
 Charlest'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  
 WPCC 560  
 Chicago, Ill.  
 WPCB 810  
 New York City  
 WPEN 1500  
 Philadelphia, Pa.  
 WPF 1370  
 Hattiesb'g., Miss.  
 WPG 1100  
 Atl'ntic City, N.J.  
 WPOR 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.  
 WRAC 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  
 Minneap., 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.  
 WSPA 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.  
 WTAC 580  
 Worcester, Mass.  
 WTAM 1070  
 Cleveland, Ohio  
 WTAQ 1330  
 Eau Claire, Wis.  
 WTAR 780  
 Norfolk, Va.  
 WTAW 1120  
 College Sta., Tex.  
 WTAZ 1210  
 Springfield, Ill.  
 WTBO 1420  
 Cumberland, Md.  
 WTEL 1310  
 Philadelphia, Pa.  
 WTFI 1450  
 Athens, Ga.  
 W TIC 660-1060  
 Hartford, Conn.  
 WTJS 1310  
 Jackson, Tenn.  
 WTMJ 620  
 Milwaukee, Wis.  
 WTOC 1260  
 Savannah, Ga.  
 WTSI 1310  
 Laurel, Miss.  
 WWA 1290  
 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.	Aguaascalntes, 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	Trail, 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 Letters	Kcys.	Location	Watts	Call Letters	Kcys.
<b>JALISCO</b>				Ciego de Avila W-26	15	CMJH	1017
Guadalajara, Jal. X-10	101	XEA	1000	Cienfuegos W-25	40	CMHJ	645
<b>MICHOACAN</b>				Colon W-24	30	CMGI	1150
Morelia, Mich. Y-12	101	XBI	1000	Havana W-23	150	CMBG	965
<b>NEUVO LEON</b>					250	CMBD	965
Monterrey, N. L. U-13	50	XEFB	1315		150	CMBG	1070
	1000	XEH	1132		30	CMBI	1405
	500	XET	690		20	CMBL	1500
<b>OAXACA</b>					30	CMBN	1405
Oaxaca, Oak. AA-14	105	XEE	1000		50	CMBQ	1500
<b>PUEBLA</b>					15	CMBR	1500
Puebla Z-13	101	XEV	1000		150	CMB S	790
<b>QUERETARO</b>					500	CMBT	790
Queretaro X-12	40	XEFS	1000		150	CMBW	1010
<b>TAMAULIPAS</b>					350	CMBY	1225
N. Laredo S-13	101	XEFE	1000		150	CMBZ	1010
	200	XEP	1400		500	CMC	842
Reynosa, Tams. T-14	10000	XED	965		150	CMCA	1235
Tampico, Tams. W-14	500	XEM	730		150	CMCB	1070
	500	XES	890		250	CMCD	925
<b>VERA CRUZ</b>					250	CMCF	890
Jalapa Y-14	100	XETC	1000		30	CMCG	1345
Veracruz, Ver. Z-14	500	XETF	630		15	CMCH	1405
	101	XEU	1000		250	CMCJ	630
<b>YUCATAN</b>					15	CMCM	1405
Merida, Yuc. X-19	105	XEY	1000		250	CMCN	925
<b>WEST INDIES</b>					225	CMCO	660
<b>BAHAMA</b>					600	CMCQ	1150
Nassau. U-26	500	VPN	610		150	CMCR	1345
<b>CUBA</b>					250	CMCU	1270
Caibarien W-25	250	CMHD	950		150	CMCW	1285
Camaguey W-26	150	CMJC	1382		50	CMCY	1345
	20	CMJE	1180		500	CMDC	660
	50	CMJF	930		3150	CMK	730
	30	CMJG	1200		250	CMQ	1150
Cardenas W-24	30	CMGE	1375		2000	CMW	588
					1000	CMX	885
				Matanzas W-24	30	CMGB	1205
					100	CMGC	820
					50	CMGF	977
					150	CMGH	1050
				Pinar del Rio W-22	20	CMAB	1249
				Santa Clara W-25	15	CMHI	1110
				Santiago X-28	150	CMKC	1034
				Tuinucu	100	CMHC	790
				<b>DOMINICAN REPUBLIC</b>			
				Santo Domingo X-31	1000	HIX	630
				<b>HAITI</b>			
				Port au Prince X-30	1000	HHK	920

# Principal Broadcasting Stations of the World

Fill in your dial numbers and you will then know where these foreign stations should be received on your set

## 500

--	--	--	--

Keys.	Power	Call	City	Country
551	1000	RW17	Kazan	Russia
554	4000	IIPA	Palermo	Italy
554	10000	SBD	Sundsvall	Sweden
560	1200	RW41	Veliki Oustug	Russia
563	1700	.....	Munich	Germany
569	3000	.....	Ljubljana	Jugoslavia
571	10000	YLZ	Riga	Latvia
580	600	VL7ZL	Hobart	Australia
581	.....	.....	Vienna	Austria
587	1000	RV50	Arnavir	Russia
588	750	.....	Bloemfontaine	So. Africa
589	3600	ON4RB	Brussels	Belgium
589	15000	.....	Velthem	Belgium
590	.....	LP6	Buenos Aires	Argentina
590	10000	JOAK	Tokyo	Japan
599	8500	IMI	Milan	Italy

## 600

--	--	--	--

600	1750	.....	Colombo	Ceylon
600	120	ZL2ZK	Wanganui	New Zealand
600	150	ZL2ZR	Wellington	New Zealand
600	20	RA51	Ulyanovsk	Russia
604	1200	RW31	Ivanovo-	Russia
			Vosnesensk	Russia
606	500	XGZ	Nanking	China
608	500	LKT	Trondelag	Norway
608	1000	RW32	Stavropol	Russia
610	1200	VK3AR	Melbourne	Australia
616	5000	OKP	Frague	Czechoslovakia
621	1000	RW40	Gomel	Russia
625	1000	CMAB	Santiago	Chile
625	500	XOL	Tientsin	China
625	500	JOQK	Niigata	Japan
626	25000	G5GB	Daventry	England
626	30000	.....	Huddersfield	England
630	50	ZL1ZH	Hamilton	New Zealand
630	4000	RW52	Simferopol	Russia
635	17000	.....	Langenburg	Germany
635	500	JONK	Nagano	Japan
636	1200	RW23	Groznyi	Russia
636	300	RW28	Vladivostok	Russia
638	50	PRAM	Amparo	Brazil
640	1200	RW56	Penza	Russia
644	3000	YN	Lyon	France
645	1200	RW48	Tomsok	Russia
648	500	ZL4YA	Dunedin	New Zealand
650	1000	RW33	Krasnodar	Russia
650	1000	CX6	Montevideo	Uruguay
653	60000	.....	Beromunster	Switzerland
662	500	.....	Klagenfurt	Austria
662	250	PTB	Danzig	Danzig
662	200	IBZ	Bolzano	Italy
662	500	LKD	Bodo	Norway
662	800	LKP	Porsgrund	Norway
662	110	LKM	Tromsøe	Norway
662	1000	EAJ8	San Sebastian	Spain
662	150	SCT	Upsala	Sweden
665	1000	VK2FC	Sydney	Australia
667	15000	ZTJ	Johannesburg	So. Africa
668	4000	RW13	Odesa	Russia
670	5000	LP4	Buenos Aires	Argentina
670	10000	JFAK	Tokyo	Japan
671	1000	FPTT	Paris	France
671	300	LKA	Aalesund	Norway
671	900	LKN	Notodden	Norway
671	170	LKR	Rjukan	Norway
674	50	PRAH	Bahia	Brazil

Keys.	Power	Call	City	Country
674	1000	COHB	Harbin	China
680	75000	IIRO	Rome	Italy
680	500	JOLK	Fukuoka	Japan
685	1000	LP3	LaPlata	Argentina
685	2000	HJN	Bogota	Colombia
687	1200	RW46	Petropavlovsk	Russia
689	1000	CAB	Canton	China
689	60	SCN	Malmberget	Sweden
689	1000	SBA	Stockholm	Sweden
690	1000	VK6WF	Perth	Australia
690	1000	JODK	Keijo, Chosen	Japan
690	1200	RA44	Tver	Russia
696	.....	.....	Belgrade	Jugoslavia

## 700

--	--	--	--

700	500	JOKK	Okayama	Japan
704	4000	RW20	Kharkov	Russia
706	3000	PRAP	Pernambuco	Brazil
706	3000	PRAG	Porto Alegre	Brazil
708	1500	EAJ7	Madrid	Spain
710	5000	LS1	Buenos Aires	Argentina
710	300	JOJK	Kanazawa	Japan
714	200	RA32	Saratov	Russia
716	1700	.....	Berlin	Germany
720	5000	ZL2YA	Wellington	New Zealand
723	2000	COMK	Mukden	China
724	2000	.....	Rabat	Morocco
726	1500	2RN	Dublin	Irish Free State
730	5000	LT6	San Juan	Argentina
730	1000	VK5CL	Adelaide	Australia
730	1000	RW55	Pokrovsk	Russia
730	1000	CX10	Montevideo	Uruguay
731	1000	ZTD	Durban	South Africa
734	10000	.....	Katowice	Poland
735	2200	.....	Tartu	Estonia
741	1000	JOSK	Kokura	Japan
743	25000	.....	Sottens	Switzerland
748	1200	RW51	Nalchik	Russia
750	7000	LR7	Buenos Aires	Argentina
750	1000	PRAA	Rio de Janeiro	Brazil
750	250	.....	Mont-de-Marsan	France
750	10000	JOBK	Osaka	Japan
750	1000	VQ7LO	Nairobi	Kenya
750	700	RA8	Bogorodsk	Russia
750	750	EAJ2	Madrid	Spain
752	1000	G5SC	Glasgow	Scotland
759	500	LT4	Mendoza	Argentina
759	12000	.....	Bucharest	Rumania
760	2500	VK4QG	Brisbane	Australia
760	1000	JQAK	Dairen, Manchuria	Japan
770	8000	.....	Toulouse	France
770	1700	.....	Frankfort	Germany
770	200	VUM	Madras	India
770	10000	JOHK	Sendai	Japan
770	10000	RW36	Arkhangelsk	Russia
770	600	SBF	Ostersund	Sweden
770	500	CX12	Montevideo	Uruguay
777	500	.....	Rheims	France
778	500	JOPK	Shidzuoka	Japan
779	.....	.....	Lwow	Poland
779	500	.....	Wilna	Poland
789	500	LU2	Bahia Blanca	Argentina
790	500	LRI	Buenos Aires	Argentina
790	10000	JOGK	Kumamoto	Japan
790	1500	OAX	Lima	Peru
793	1000	RW37	Moscow	Russia
793	300	RW39	Moscow	Russia
796	1000	RW27	Makhatch Kala	Russia
797	1000	G2ZY	Manchester	England

**800**

--	--	--	--

Keys.	Power	Call	City	Country
800	1000	VK3LO	Melbourne	Australia
804	1000	CMAC	Santiago	Chile
806	1700	.....	Hamburg	Germany
810	1000	LTI	Concordia	Argentina
810	3000	VUC	Calcutta	India
810	10000	JOCK	Nagoya	Japan
810	.....	HS7PJ	Bangkok	Siam
810	1000	ZTC	Cape Town	So. Africa
810	1000	CX14	Montevideo	Uruguay
811	1200	RV26	Artemovsk	Russia
815	1000	PRAE	Sao Paulo	Brazil
815	.....	EAJ5	Seville	Spain
820	20	ZL3ZR	Greyhound	New Zealand
820	4	ZL2ZP	Wairoa	New Zealand
820	.....	RV42	Nikolaev	Russia
824	2400	.....	Algiers	Algeria
824	1000	LKB	Bergen	Norway
825	1500	FSGC	Paris	France
830	500	LR5	Buenos Aires	Argentina
830	10000	JOIK	Sapporo	Japan
833	60000	.....	Stuttgart	Germany
837	700	LKF	Fredrikstad	Norway
838	4000	RW57	Tiraspol	Russia
840	10000	.....	Helsingfors Fredriksberg	Finland
840	12000	F31CD	Saigon	Fr. Indo-China
840	3000	VUB	Bombay	India
842	250	PRAF	Para	Brazil
842	30000	GZLO	London	England
845	1500	ZBW	Victoria	Hong Kong
850	10000	JOFK	Hiroshima	Japan
850	.....	CX16	Montevideo	Uruguay
851	7000	.....	Graz	Austria
855	1000	VK2BL	Sydney	Australia
856	1200	RV36	Leningrad	Russia
856	2500	HSP1	Bangkok	Siam
857	200	PRAJ	Juiz de Fora	Brazil
857	500	PRAC	Rio de Janeiro	Brazil
860	7500	EAJ1	Barcelona	Spain
865	1200	RW21	Piatigorsk	Russia
867	6000	SPTT	Strasbourg	France
870	10000	LR2	Buenos Aires	Argentina
870	.....	.....	Shanghai	China
870	10000	JOAK	Tokyo	Japan
878	36000	OKB	Brno	Czechoslovakia
880	600	VK4BC	Brisbane	Australia
880	200	VK6PR	Perth	Australia
881	500	LV7	Tucuman	Argentina
882	50	PRAN	Curityba	Brazil
882	100	VUL	Lahore	India
882	400	HS11PJ	Bangkok	Siam
887	1000	PRAS	Santos Miramir	Brazil
890	50	VK7HO	Hobart	Australia
890	250	CX18	Montevideo	Uruguay
895	250	XGY	Hangchow	China
896	1500	.....	Poznan	Poland

**900**

--	--	--	--

901	500	.....	Paris	France
905	1500	INA	Naples	Italy
909	.....	CT1GL	Lisbon	Portugal
910	2000	VK4RK	Rockhampton	Australia
910	500	ZLIYA	Auckland	New Zealand
911	1000	LV2	Cordoba	Argentina
914	1500	.....	Grenoble	France
920	50	PRAD	Pelotas	Brazil
923	1700	.....	Breslau	Germany
923	.....	HS7PJ	Bangkok	Siam
930	100	VK3UZ	Melbourne	Australia
930	2000	CX20	Montevideo	Uruguay
932	500	SCC	Falun	Sweden
932	10000	SBB	Goteborg	Sweden
937	500	PRAB	Rio de Janeiro	Brazil
937	1000	XOPP	Peking	China
937	.....	HSP3	Bangkok	Siam
938	50	XGAH	Shanghai	China

Keys.	Power	Call	City	Country
940	.....	5ZA	Apia	Samoa
941	300	.....	Dresden	Germany
950	5000	LR3	Buenos Aires	Argentina
950	600	VK2GB	Sydney	Australia
950	500	.....	Marseilles	France
950	300	.....	Bremen	Germany
952	50	NKS	Shanghai	China
959	1500	IGE	Genoa	Italy
959	1500	.....	Krakow	Poland
960	100	VK5DN	Adelaide	Australia
960	.....	YV1BC	Caracas	Venezuela
968	2000	.....	Paris	France
968	1000	G5WA	Cardiff	Wales
970	200	VK3BO	Sydney	Australia
970	250	CX22	Montevideo	Uruguay
977	700	.....	Zagreb	Jugoslavia
980	500	ZL3YA	Christchurch	New Zealand
983	25	CNO	Casablanca	Morocco
986	1500	.....	Bordeaux	France
990	10000	LR4	Buenos Aires	Argentina
990	5000	LR6	Buenos Aires	Argentina
995	1000	G2BD	Aberdeen	Scotland

**1000**

--	--	--	--

1000	50	VK4GR	Toowoomba	Australia
1000	50	PRAY	Mogydas Cruzes	Brazil
1000	350	.....	The Hague	Netherlands
1000	50	.....	Pretoria	So. Africa
1004	7000	PFBI	Amsterdam	Netherlands
1004	6400	PH9	Amsterdam	Netherlands
1006	500	PRAR	Sao Paulo	Brazil
1010	200	VK3HA	Hamilton	Australia
1010	300	VK6ML	Perth	Australia
1010	1000	CX24	Montevideo	Uruguay
1013	10000	.....	Tallinn	Estonia
1013	8500	ITO	Turin	Italy
1016	250	CMAO	Santiago	Chile
1022	500	.....	Limoges	France
1023	2500	OKK	Kosice	Czechoslovakia
1025	50	VK2UE	Sydney	Australia
1030	10000	LR9	Buenos Aires	Argentina
1031	750	.....	Viborg	Finland
1032	500	YR	Lyon	France
1034	100	CMAJ	Valparaiso	Chile
1040	1000	G6BM	Bournemouth	England
1040	130	G6KH	Hull	England
1040	130	G2LS	Leeds-Bradford	England
1040	130	G6LV	Liverpool	England
1040	130	G5PY	Plymouth	England
1040	160	G6FL	Sheffield	England
1040	130	G6ST	Stoke-on-Trent	England
1040	130	G2DE	Dundee	Scotland
1040	350	G2EH	Edinburgh	Scotland
1040	130	G5SX	Swansea	Wales
1049	200	.....	Montpellier	France
1050	50	VK2CA	Canberra	Australia
1050	150	ZL2ZF	Palmerston	New Zealand
1050	2000	CX26	Montevideo	Uruguay
1053	500	.....	Kharbarovsk	Russia
1056	2000	CT1AA	Lisbon	Portugal
1056	10	CT1AN	Lisbon	Portugal
1056	150	CT1BO	Lisbon	Portugal
1056	.....	CT1DH	Lisbon	Portugal
1056	30	CT1EB	Lisbon	Portugal
1058	500	.....	Innsbruck	Austria
1058	600	.....	Berlin	Germany
1058	600	.....	Magdeburg	Germany
1058	600	.....	Stettin	Germany
1058	50	SCR	Uddevalla	Sweden
1058	300	SCU	Varberg	Sweden
1067	1000	.....	Copenhagen	Denmark
1069	10000	LS5	Buenos Aires	Argentina
1070	300	VK2KY	Sydney	Australia
1070	10	PRAI	Ribeirao Preto	Brazil
1071	500	EAR5	Las Palmas	Canary Islands
1071	50	XGX	Shanghai	China
1075	100	LT9	Rosario	Argentina

Keys.	Power	Call	City	Country	Keys.	Power	Call	City	Country
1075	12000	OKR	Bratislava	Czechoslovakia	1219	200	ON4RW	Liege	Belgium
1080	2000	LT3	Rosario	Argentina	1219	250	.....	Nice	France
1080	20	VK7LA	Launceston	Australia	1219	100	EAJ15	Cartagena	Spain
1080	50	VK3SH	Swan Hill	Australia	1220	500	.....	Linz-an-der-Donau	Austria
1080	200	.....	Caen	France	1220	50	VK2MV	Moss Vale	Australia
1080	20	ZL4ZB	Dunedin	New Zealand	1220	100	VK6KG	Kalgoorlie	Australia
1080	45	ZL4ZM	Dunedin	New Zealand	1220	.....	.....	Abo	Finland
1080	30	ZL4ZO	Dunedin	New Zealand	1220	1500	.....	Bjorneborg	Finland
1085	60000	.....	Heilsburg	Germany	1220	750	.....	Jakobstad	Finland
1085	1700	.....	Konigsberg	Germany	1220	300	.....	Kassel	Germany
1088	50	KSMS	Shanghai	China	1220	.....	.....	Blomendaal	Netherlands
1090	.....	PRAQ	Bello Horizonte	Brazil	1220	180	ZL4ZL	Dunedin	New Zealand
1090	18	ZL1ZB	Auckland	New Zealand	1220	200	SCB	Eskestuna	Sweden
1090	40	ZL1ZR	Auckland	New Zealand	1220	200	SCI	Kalmar	Sweden
1091	250	.....	Angers	France	1220	200	SCL	Kiruna	Sweden
					1220	400	SCP	Saffle	Sweden
					1220	50	CW34	Salto	Uruguay
					1224	100	CMAQ	Santiago	Chile

**1100**

1100	20	VK7LA	Launceston	Australia	1229	10000	L88	Buenos Aires	Argentina
1100	7.5	ZL2ZU	Dannevirke	New Zealand	1230	100	ZL2YB	New Plymouth	New Zealand
1103	1500	.....	Rennes	France	1238	1000	G2BE	Belfast	Ireland
1110	200	VK2HD	Newcastle	Australia	1245	2000	VK2NC	Newcastle	Australia
1110	50	PRAZ	France	Brazil	1247	500	LKS	Stavanger	Norway
1112	300	.....	Kaiserslautern	Germany	1249	500	LT5	Parana	Argentina
1112	150	SCF	Hudkissvaln	Sweden	1249	.....	PRP1	Oporto	Portugal
1112	250	SCO	Norrkoping	Sweden	1250	500	.....	Nimes	France
1112	250	SCQ	Trollhattan	Sweden	1250	250	CX36	Montevideo	Uruguay
					1256	2300	.....	Nuremberg	Germany
1118	1500	.....	Valencia	Spain	1260	50	VK3WR	Wangaratta	Australia
1119	10000	EZJ13	Barcelona	Spain	1260	15	ZL2ZH	Napier	New Zealand
1119	30	EAJ19	Oviedo	Spain	1260	30	CW36	Salto	Uruguay
1120	10	ZL2ZO	Palmerston North	New Zealand	1265	200	SCV	Orebro	Sweden
1120	.....	ZL2ZW	Wellington	New Zealand	1270	1000	LS3	Buenos Aires	Argentina
1125	100	VK2UW	Sydney	Australia	1274	500	LKK	Kristianssand	Norway
1130	250	CX30	Montevideo	Uruguay	1277	50	RSC	Shanghai	China
1132	500	.....	Lille	France	1280	200	VK4BK	Brisbane	Australia
1135	300	VK6ML	Perth	Australia	1280	50	VK3TR	Trafalgar	Australia
1140	65	LP2	Villaguay	Argentina	1290	100	CX38	Montevideo	Uruguay
1140	.....	CW30	Tucumanembo	Uruguay	1292	300	.....	Kiel	Germany
1145	600	VK4BC	Brisbane	Australia					
1145	25	VK3YB	Melbourne	Australia					
1147	110	ZL2ZM	Gisborne	New Zealand					
1148	1000	G5NO	Newcastle	England					
1150	10000	LR8	Buenos Aires	Argentina	1300	50	VK3BA	Ballarat	Australia
1150	30000	G2LO	London	England	1300	30	CW38	Salto	Uruguay
1150	20	ZL2ZJ	Gisborne	New Zealand	1301	150	SCA	Boras	Sweden
1153	1000	PRAK	Rio de Janeiro	Brazil	1301	200	SCG	Halsingborg	Sweden
1153	7500	.....	Kallundborg	Denmark	1301	60	SBC	Malmo	Sweden
1157	5600	.....	Gleitwitz	Germany	1301	20	SCS	Umea	Sweden
1160	50	VK7HO	Hobart	Australia	1304	.....	HKF	Bogota	Colombia
4160	8	ZL4ZI	Ivercargill	New Zealand	1310	300	VK5AD	Adelaide	Australia
1160	16	ZL4ZP	No. Invercargill	New Zealand	1319	300	.....	Aix la Chapelle	Germany
1166	10000	SBH	Horby	Sweden	1319	1700	.....	Cologne	Germany
1170	200	VK4TO	Townsville	Australia	1319	600	.....	Muenster	Germany
1170	20	.....	Campinas	Brazil	1320	50	VK2AY	Albury	Australia
1170	200	CX32	Montevideo	Uruguay	1320	26	ZL1ZJ	Auckland	New Zealand
1175	1500	MRD	Toulouse	France	1330	50	VK2MO	Bunndedah	Australia
1180	100	VK3DB	Melbourne	Australia	1330	15	ZL2ZI	Hastings	New Zealand
1180	2.5	ZL2ZD	Masterton	New Zealand	1330	100	CX40	Montevideo	Uruguay
1180	30	CW32	Salto	Uruguay	1333	100	CMAK	Santiago	Chile
1184	2300	.....	Leipzig	Germany	1337	1000	6CK	Cork	Irish Free State
1190	10000	LS2	Buenos Aires	Argentina	1340	50	VK2XN	Lismore	Australia
1190	10	VK4MK	Mackay	Australia	1340	30	CW40	Paysandu	Uruguay
1190	13	ZL1ZQ	Auckland	New Zealand	1344	10000	LOAA	Luxemburg	Luxemburg
1190	13	ZL1ZQ	Auckland	New Zealand	1349	3000	LS6	Buenos Aires	Argentina
1195	200	EAJ18	Almeria	Spain	1350	200	VK3KZ	Melbourne	Australia
1199	5000	.....	Bordeaux	France	1350	1000	CPX	LaPaz	Bolivia

**1200**

1200	200	VK5KA	Adelaide	Australia	1360	400	LT2	Concordia	Argentina
1200	500	.....	Toulon	France	1363	.....	ZP1	Asuncion	Paraguay
1200	500	TFA	Reykjavik	Iceland	1364	1000	PRAX	Rio de Janeiro	Brazil
1200	250	ZL3ZC	Christchurch	New Zealand	1364	1500	.....	Beziers	France
1210	5	ZL2ZE	Ekatehuana	New Zealand	1364	250	.....	St. Etienne	France
1210	10	ZL1ZM	Manurewa	New Zealand	1365	50	BK2XL	Broken Hill	Australia
1210	500	CX34	Montevideo	Uruguay	1370	500	CX42	Montevideo	Uruguay
1211	15000	ITR	Trieste	Italy	1373	600	.....	Flensburg	Germany
1219	100	ON4FO	Brussels	Belgium	1373	250	.....	Karlstad	Sweden
1219	400	ON4RG	Ghent	Belgium	1373	200	SCW	Ornskoldsvik	Sweden
					1375	100	ON4GT	Brussels	Belgium
					1380	600	VK4BH	Brisbane	Australia
					1386	10000	LS9	Buenos Aires	Argentina
					1388	500	LV5	Rosario	Argentina



Keys.	Power	Call	City	Country
1388	200	ON4CE	Chatelaineau	Belgium
1388	100	ON4EX	Ottomont	Belgium
1391	200	SCE	Halmstad	Sweden
<b>1400</b>				
1400	50	VK3GL	Gselong	Australia
1410	20	CX44	Montevideo	Uruguay
1414	100	LU1	Mar del Plata	Argentina
1415	200	VK2KO	Newcastle	Australia
1420	30	CW44	Paysandu	Uruguay
1428	12	OA4M	Lima	Peru
1425	50	VK2WL	Wollongong	Australia
1441	1000	LT7	General Pico	Argentina
1448	100	ON4RC	Brussels	Belgium
1448	3000	.....	Oporto	Portugal
1450	100	CX46	Montevideo	Uruguay
1455	50	ON4ED	Antwerp	Belgium
1455	25	ON4FG	Dampremy	Belgium
1455	100	ON4CE	Verviers	Belgium
1460	50	VK2MV	Moss Vale	Australia
1460	20	CW46	Tucareambo	Uruguay
1470	200	SCE	Gavie	Sweden
1480	50	VK2AY	Albury	Australia
1480	250	SCM	Kristinehamn	Sweden
1490	250	SCH	Jonkoping	Sweden
1490	50	CX48	Montevideo	Uruguay
1500	50	VK2MO	Gunnedah	Australia
1500	130	G2LS	Leeds-Bradford	England

State	City	Call	Keys.	Watts
Mississippi	Laurel	WTSL	1310	100
Sunday, 1 p.m.-12 mid., CST.				
Mon., Wed., Fri., 6-7 a.m.; 1-7 p.m.; 9:30-12 mid.				
Tues., Thurs., Sat., 1-9:30 p.m.				
New Hampshire	Laconia	WKAV	1310	100
Daily, 9 a.m.-1 p.m.; 3-8 p.m.-EST.				
New York	Troy	WHAZ	1300	500
DX every Monday from 6 p.m.-12 mid., EST.				
OHIO	Columbus	WEOA	570	750
Monday, 9-11 a.m.; 1-3 p.m.; 8-10 p.m., EST.				
Tues. and Thurs., 9-11 a.m.; 1-3 p.m.				
Wednesday, 9-11 a.m.; 1-3 p.m.; 8-12 mid.				
Friday, 9-11 a.m.; 7-12 mid.				
Saturday, 1 p.m.-12 mid. No Sunday hours.				
Youngstown WKBN 570				
Sunday, 6 a.m.-12 mid., EST.				
Monday, 6-9 a.m.; 11 a.m.-1 p.m.; 3-8 p.m.; 10-12 mid.				
Tues. and Thurs., 6-9 a.m.; 11 a.m.-1 p.m.; 3-12 mid.				
Wednesday, 6-9 a.m.; 11 a.m.-1 p.m.; 3-8 p.m.				
Friday, 6-9 a.m.-11 a.m.-7 p.m.				
Saturday, 6 a.m.-1 p.m.				
Oklahoma	Norman	WNAD	1010	500
Tues. and Thurs., 7:15-9:15 p.m., CST.				
Wednesday, 8:15-9:15 p.m.				
Pennsylvania	Carbondale	WNBW	1200	10
Daily, 8 a.m.-10 p.m., EST.				
State College WPCS 1230 500				
Sunday, 9 a.m.-1 p.m.; 2 p.m.-sunset, EST.				
Daily, ex. Sat., 11:45 a.m.-12:15 p.m.; 4-5:30 p.m.				
Saturday, 11:45 a.m.-12:15 p.m.				
Texas	Austin	KNOW	1500	100
Sunday, 7:30-11 a.m.; 12-4 p.m.; 5-9:30 p.m., CST.				
Daily, 7:30 a.m.-1:30 p.m.; 4-10 p.m.				
Vermont	St. Albans	WQDM	1370	100
Sunday, 1-2 p.m., EST.				
Daily, 11 a.m.-2 p.m.				
Virginia	Danville	WBTM	1370	100
Sunday, 7-11 a.m.; 6-6:30 p.m.; 7 p.m. till close, EST.				
Mon., Wed., Fri., 7 a.m.-1 p.m.; 2-6:30 p.m.				
Tues., Thurs., Sat., 12 n.-1 p.m.; 6-6:30 p.m.; 7 p.m. till close.				
Washington	Yakima	KIT	1310	100
Sunday, 9 a.m.-11 p.m., PST.				
Daily, 7 a.m.-11 p.m. (Saturday on till midnight.)				
Wyoming	Casper	KDFN	1210	100
Daily, ex. Sunday, 9 a.m.-9 p.m., MST.				
Test every Tuesday morning, 1:05-1:15 a.m.				

### CANADA

British Columbia	Vancouver	CKMO	730	100
DX every Mon., Tues., Thurs., Fri., Sun., 11:30 p.m.-1:30 a.m., PST.				
Newfoundland	St. Johns	VONA	950	30
Sunday, 12:30-1:30 p.m.; 7:45-9 p.m.				
Saturday, 9:45 a.m.-12:30 p.m.				
Daily, 12:30-1:30 p.m.; 6:30-8 p.m.				
(Newfoundland time — 1½ hours ahead of Eastern.)				
St. Johns VOWR 675 500				
Sunday, 11 a.m.-12:30 p.m.; 6:30-8 p.m.				
Tues. and Thurs., 8:15 p.m.-9:30 p.m.				

### CUBA

Cuba	Havana	CMCU	1270	250
DX every Sunday, 2 a.m.-5 a.m., EST.				
Daily, 6-11 a.m., 12-3 p.m.; 7-10 p.m.				

## Their Time On the Air

Your Zone	Where Time is Given as			
	EST	CST	MST	PST
EST	.....	Add 1 hr.	Add 2 hrs.	Add 3 hrs.
CST	Subt. 1 hr.	.....	Add 1 hr.	Add 2 hrs.
MST	Subt. 2 hrs.	Subt. 1 hr.	.....	Add 1 hr.
PST	Subt. 3 hrs.	Subt. 2 hrs.	Subt. 1 hr.	.....
State	City	Call	Keys.	Watts
California	Culver City	KFVD	1000	250
Sunday, 8 a.m.-6 p.m.; 10-12 mid. PST.				
Daily, 6 a.m.-9 p.m.; 10 p.m.-1 a.m.				
El Centro KXO 1500 100				
Sunday, 7 a.m.-10 p.m. PST.				
Daily, 7:15 a.m.-10 p.m.				
Pasadena KPPC 1210 50				
Sunday, 9 a.m.-12:30 p.m.; 6:45-9 p.m. PST.				
Wednesday, 7 p.m.-9:15 p.m. (Rest of week silent.)				
San Bernardino KFXM 1210 100				
Sunday, 3 p.m.-5 p.m., PST.				
Daily, 7 a.m.-11 p.m.				
Colorado	Yuma	KGEK	1200	100
DX every Friday, 11 p.m.-1 a.m., MST.				
Georgia	Rome	WFDV	1500	100
Sunday, 9 a.m.-3 p.m.; 6-9 p.m., CST.				
Daily, 6:9 a.m.; 12-3 p.m.; 6-9 p.m.				
Hawaii	Honolulu	KGU	750	1000
Daily, 6:15 a.m.-11 p.m., Honolulu time.				
(5½ hours behind EST.)				
Kansas	Coffeyville	KGGF	1010	500
Sunday, 7:30-10:30 a.m.; 1:30-5 p.m., CST.				
Monday, 11:30 a.m.-2 p.m.; 5-10:30 p.m.				
Tues. and Thurs., 7:30-10:30 a.m.; 11:30-2 p.m.; 5-7:15 p.m.; 9:15-10:30 p.m.				
Wednesday, 7:30-10:30 a.m.; 11:30-2 p.m.; 5-8:15 p.m.; 9:15-10:45 p.m.				
Friday, 7:30-10:30 a.m.; 11:30-2 p.m.; 5-10:30 p.m.				
Saturday, 7:30-10:30 a.m.; 11:30-2 p.m.; 5-9:30 p.m.				
Louisiana	Shreveport	KRMD	1310	50
Sunday, 7-10 a.m.; 4-7 p.m., CST.				
Monday to Friday, 7-10 a.m.; 5-8 p.m.				
Saturday, 7-10 a.m.; 2-5 p.m.				
Maine	Bangor	WABI	1200	100
Sunday, 9 a.m.-12 n., EST.				
Daily, 6-9 a.m.; 12-3 p.m.; 6-9 p.m.				
Michigan	Lapeer	WMPC	1500	100
Sunday, 7:30-11 p.m., CST.				
Daily (ex. Sat. and Thurs.) 10 a.m.-2 p.m.; 3:30-6 p.m.; 7-10:30 p.m.				

## The Month's Changes

### Frequencies

570	KVI	Tacoma, Wash., from 760.
630	KGFX	Pierre, S. D., from 580.
750	KGU	Honolulu, Hawaii, from 940.
760	KXA	Seattle, Wash., from 670.
820	CMGC	Matanzas, Cuba, from 1375.
845	XEFD	Tijuana, Mex., from 1020.
1050	CMGH	Matanzas, Cuba, from 1370.
1180	CMJE	Camaguey, Cuba, from 856.
1235	CMCA	Havana, Cuba, from 1225.
1270	CMCU	Havana, Cuba, from 1285.
1310	WIAS	Ottumwa, Iowa, from 1420.
1420	KWCR	Cedar Rapids, Iowa, from 1310.
1500	WFDV	Rome, Ga., from 1310.

		Power
588	CMW	Havana, Cuba, 1400 to 2000.
630	CFCT	Victoria, B. C., 50 to 500.
690	CFRB	Toronto, Ont., 4000 to 7000.
820	CMGC	Matanzas, Cuba, 30 to 100.
1120	CHGS	Summerside, P. E. I., 100 to 500.
1205	CMGB	Matanzas, Cuba, 7.5 to 30.
1270	CMCU	Havana, Cuba, 150 to 250.
1420	WENC	Americus, Ga., 50 to 100.
		Owners
630	WOS	Jefferson City, Mo., to Missouri State Marketing Bureau.
630	XETP	Veraeruz, Mex., to Cia. Difusora Mexicana, S. A.
1200	WABI	Bangor Maine, to First Universalist Society.
1310	KRMD	Shreveport, La., to KRMD, Inc.
1420	KGKX	Sandpoint, Idaho, to Sandpoint Broadcasting Co.
		New
540	CKWO	Windsor, Ont.
610	XETR	Mexico City, Mexico.
1150	CMGI	Colon, Cuba.
1500	.....	Kosciusko, Miss.
		Calls
820	CMGC	Matanzas, Cuba, from CMAC.
1300	WFAB	New York City, from WHAP.
		Deleted
834	CMGA	Colon, Cuba.
1310	KFJY	Fort Dodge, Iowa.
		Location
820	CMGC	Matanzas, Cuba, from Pinar del R o.
		Reinstated
1210	KGMP	Elk City, Okla.
		Chains
1420	KWCR	Cedar Rapids, Iowa, new NBC.
		Permit to Change Frequency
860	KMO	Tacoma, Wash., to 1330.
1210	WGCM	Gulfport, Miss., to 590.
1420	KFXD	Nampa, Idaho, to 1200.
		Permit to Increase Power
1200	WRBL	Columbus, Ga., 50 to 100.
1210	WGCM	Gulfport, Miss., 100 to 1000.
1310	KRMD	Shreveport, La., 50 to 100
		Heard on Other Waves
1240	KTFI	Twin Falls, Idaho, on 1220.

## Your Radio Friends

*(Continued from page 17)*

worked so hard to attain with the more popular material. He studied Mexican and Spanish folk songs and popular melodies, arranging them in classic style. In 1929 Tito came to New York to make records of his unique renditions of Spanish and Mexican songs. At the expiration of the original contract, Guizar was offered another on similar terms, but by this time officials of the CBS had heard his mellow voice and signed him for radio performances. Tito Guizar was born in Guadalajara, Mexico, in 1905. He is now featured with Vincent Sorey's orchestra on the Gauchos program each Sunday at 11:30 p.m.; Thursdays at 5:00 p.m.; also with Leon Belasco's orchestra on Friday at 9:30 p.m. EST, over the Columbia network.

## Back Issues of RADEX

We still have a small supply of each issue of RADEX back as far as No. 41 of September, 1930. These old numbers constitute a valuable library for the radio fan and we are epitomizing the contents of each issue. They may be secured at the regular subscription rates of 25 cents per copy, five for \$1.00 and ten for \$1.75.

- 41 September, 1930  
Those Bothersome Noises.  
Getting Rid of Interference.
- 42 October, 1930  
High Frequency Interference.  
Progress of Television.
- 43 November, 1930  
Multiple Speakers and Remote Control  
The Mechanics of Chain Programs.
- 44 December, 1930  
Adding Your Own Tone Control.  
Wave Trap Increases Selectivity.
- 45 January, 1931  
Building a Short Wave Adapter.
- 46 February, 1931  
Reducing the Effect of Static.
- 47 March, 1931  
Theory of Radio in a Nutshell.  
Attaching Phones to Majestic Sets.  
Neutralizing Oscillation of R.F. Tubes.
- 48 April, 1931  
Fighting Radio's Worst Enemy.  
Faults of Superheterodynes.
- 49 May, 1931  
What Happens Inside Your Set.  
Short-Wave Adapter for A. C. Sets.
- 50 June, 1931  
Converting Vibrations Into Sound.
- 51 September, 1931  
Using Phones with A. C. Sets.  
Can Static Be Eliminated?  
Modern Sets for D. C. Current.
- 52 October, 1931  
What About the Pentode Tube?  
The "Why" of Call Letters.
- 53 November, 1931  
Is Television Ready for the Home?  
Does Radio Offer a Life Career?
- 54 December, 1931  
Can I Use a Variable-Mu?  
Replacing 45's with Pentodes.
- 55 January, 1932  
Buying and Servicing a New Set.

## FILTERED AERIAL

A revolutionary antenna composed of a solid straight wire insulated, and over the insulation is helically-wound enameled wire the entire length.

The straight inside wire is connected to a ground at each end, while one end of the helically-wound wire goes to the aerial post of the set.

Working on the transformer principle, the Filtered Aerial picks up very weak signals and amplifies them.

*Coil contains 60 feet, but the helically-wound wire is considerably longer due to winding.*

**Price, \$1.50, postpaid**

---

## RADIO THEORY AND MODERN PRACTICE

**A New Book in Simple Terms  
Profusely Illustrated**

With chapters on Radio Principles, Vacuum Tubes, Receiver Circuits with diagrams of many of the best-known sets, Short Waves, Aerials, Loud Speakers, Radio Troubles, Radio Instruments, Broadcasting Transmitters, Television, etc.

224 pages, printed in large type, bound in flexible cloth, every point illustrated with drawing or diagram.

**Price, \$1.00, postpaid**

## Headphone Adapter for Modern A. C. Sets

Permits the use of the radio at night when others want to sleep and brings in those tantalizing DX stations that can't quite be brought out on the loud speaker.

Requires no risky changes in the wiring. Simply remove the last tube before the speaker and insert adapter in the socket. This cuts out power stage and reduces volume to comfortable point. If last stage is in push-pull, remove both tubes and place adapter in either socket.

*Can be used with any set using four-prong tubes in last stage*

**Price, \$1.50, postpaid**

For five-prong tubes (Pentode) an extra adapter is required—price, \$1.00 or \$2.50 complete.

---

## I. C. A. PHONES

**Complete with Head Bands**

Specially made of lightweight material and give true reproduction of the broadcast signals. They are made of molded bakelite and lightweight nickle-plated metal. Extremely sensitive and reproduce the faintest signals.

2000 ohms.

**Price, \$2.75, postpaid**

---

*The articles described on  
this page will be shipped  
promptly upon receipt  
of price.*

**THE RADEX PRESS**

5005 Euclid Avenue  
Cleveland, Ohio

# I will train you at home to fill a **BIG PAY** Radio Job



**Free Book  
Tells How  
Mail Coupon!**

J. E. Smith, President, National Radio Institute, the man who has directed the Home Study Training of more men for the Radio industry than any other man in America.

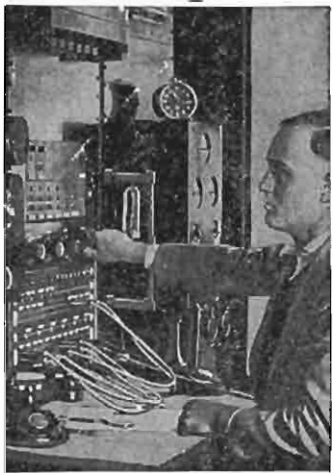
Get my big FREE book on the opportunities in Radio. Read how quickly you can learn at home in your spare time to be a Radio Expert—what good jobs my graduates have been getting—real jobs with real futures.

**Many Radio Experts Make \$50 to \$100 a Week**

Over 300,000 jobs have been created by Radio's growth, and thousands more will be created by its continued development. Many men and young men with the right training—the kind of training I give you in the N. R. I. course—have stepped into Radio at two and three times their former salaries.

**Many N.R.I. Men Have made \$200 to \$1000 in spare time while learning**

The day you enroll with me I'll show you how to do 28 jobs, common in most every neighborhood, for spare-time money. I give you the plans and ideas that have made \$200 to \$1,000 for N. R. I. students in their spare time while studying. My course is famous as the course that pays for itself.



**Talking Movies, Television, Aircraft Radio Included**

Special training in Talking Movies, Television and home Television experiments, Radio's use in Aviation, Servicing and Merchandising Sets, Broadcasting, Commercial and Ship Stations are included. I am so sure that N. R. I. can train you satisfactorily that I will agree in writing to refund every penny of your tuition if you are not satisfied with my Lessons and Instruction Service upon completion.

**64-page Book of Information FREE**

Get your copy today. It tells you where Radio's good jobs are, what they pay, tells you about my course, what others who have taken it are doing and making. Find out what Radio offers you without the slightest obligation. **ACT NOW!**

**.. NEW Radio Equipment for Broad Practical Experience Given Without Extra Charge**

With this equipment you work out many of the things you read in textbooks. From it you get the experience that tells an expert from a beginner. In a short time you have learned what would take years to learn in the field. You make experiments illustrating the important principles in the 25 best known receiving sets.

**I have doubled and tripled the salaries of many. Find out about this tested way to BIGGER PAY**



**FILL OUT AND MAIL THIS COUPON TODAY**

J. E. SMITH, President  
National Radio Institute, Dept. 2EO  
Washington, D. C.

Dear Mr. Smith: Send me your free book. I understand this request does not obligate me and that no salesman will call.

NAME.....  
ADDRESS.....  
CITY.....STATE.....