

THE FEBRUARY 1934

# RADIO INDEX

THE ALL-WAVE RADIO MAGAZINE



25<sup>c</sup>

30 cents  
in Canada  
Including  
Tax

The Short Wave Stations of North America  
The Long Wave Stations of the World  
Broadcast Reallocation in Europe  
The Beginner's Story of Radio  
"What's Wrong with My Set?"

No. 76

# FEBRUARY DX CALENDAR

In addition to the following programs which are put on by courtesy of the stations for the benefit of distant listeners, more than 300 other stations are holding monthly frequency checks for monitoring by the Federal Radio Commission. These monthly checks appeared in the September issue by days of the week, in November by frequencies, and in December by states and cities. The following programs are arranged in order by Eastern Standard Time. Power is given in parentheses in kilowatts. Distant readers should note that those programs which occur weekly, will probably be repeated on the same day of the week in March.

## SUNDAY MORNINGS

Jan. 28

- 2:00-3:00—CHWC, Regina, 1010 (.5)  
4:30-5:00—CKFC, Vancouver, 1410 (.05)  
6:00-7:00—NGOA, Nanking, 660 (.75)

Feb. 4

- 1:00-2:00—WWAE, Hammond, 1200 (.1)  
2:30-4:30—CKBI, Prince Albert, 1210 (.1)  
3:00-6:00—WGCM, Gulfport, 1210 (.25)

Feb. 4-18

- 5:00-6:00—XFB, Jalapa, 1290 (1)

Feb. 4-25

- 3:00-5:00—CMCU, Havana, 1100 (.5)

Feb. 11

- 1:00-1:30—WKY, Oklahoma City, 900 (1)  
1:00-2:00—KUSD, Vermilion, 890 (.5)  
3:00-4:00—WOS, Jefferson City, 630 (.5)  
3:00-4:30—KFOA, Long Beach, 1250 (1)  
3:30-4:30—CKWX, Vancouver, 1010 (.1)  
4:00-5:00—WBBZ, Ponca City, 1200 (1)  
5:00-6:00—WCLO, Janesville, 1200 (1)

Feb. 11-25

- 4:00-5:00—CMGE, Matanzas, 971 (.1)

Feb. 11-18-25

- 1:00-3:30—WIBM, Jackson, 1370 (1)

Feb. 18

- 2:00-3:00—KOH, Reno, 1380 (.5)  
3:00-4:00—KREG, Santa Ana, 1500 (1)  
KUMA, Yuma, 1420 (1)  
3:00-5:00—KQNO, Dodge City, 1340 (.25)  
3:00-5:00—KML, Fresno, 580 (.5)  
3:00-7:00—KCLR, Butte, 1360 (.5)

Feb. 25

- 12:00-4:00—KFSG, Los Angeles, 1120 (.5)  
1:00-2:00—XEPW, Tampico, 1280 (.07)  
3:00-5:00—WHAZ, Troy, 1300 (.5)  
4:00-5:00—WIBG, Glenside, 970 (1)

Feb. 4-11-18-25

- 12:00-1:00—CMBW, Havana, 1140 (.6)  
CMX, Havana, 875 (1)  
NETW, Mexico City, 830 (.5)  
12:00-1:30—WBMC, Detroit, 1420 (1)  
12:00-3:00—CMCD, Havana, 915 (.5)  
WGES, Chicago, 1360 (.5)  
1:00-2:00—WCCO, Minneapolis, 810 (.50)  
WDDO, Chattanooga, 1280 (1)  
1:00-2:30—XEAB, Tamulipas, 1450 (.0075)  
1:00-4:00—CMBD, Havana, 965 (.25)  
2:00-3:00—WMMN, Fairmont, 890 (.25)  
2:00-5:00—KJPM, Prescott, 1500 (1)  
3:00-4:00—KFXM, San Bernardino, 1210 (1)  
KGER, Long Beach, 1360 (1)  
3:00-5:00—CJAT, Trail, 1200 (.05)  
CKOV, Kelowna, 1200 (.05)  
KVL, Seattle, 1370 (1)  
3:00-6:00—XEOK, Tijuana, 757 (.5)  
4:00-5:00—CFJC, Kamloops, 1120 (1)  
CMJK, Camaguey, 790 (.5)  
4:00-6:00—XEFV, Juarez, 1370 (1)  
\*P. O. Box 1441, San Diego, Calif.

## MONDAY MORNINGS

Jan. 29

- 6:00-7:00—NGOA, Nanking, 660 (.75)

Feb. 5

- 3:00-5:00—KPCB, Seattle, 650 (1)  
3:45-4:00—KUJ, Walla Walla, 1370 (1)

Feb. 19

- 2:30-3:30—HIII, San Pedro de M., 1395 (.015)  
3:30-4:30—\*WHBU, Anderson, 1210 (1)  
\*Wants 5c for verification.

Feb. 5-12-19-26

- 12:00-3:00—WGES, Chicago, 1360 (.5)  
12:30-1:00—KSOO, Sioux Falls, 1110 (2.5)  
2:00-3:00—KFSG, Los Angeles, 1120 (.5)

## TUESDAY MORNINGS

Jan. 30

- 6:00-7:00—XGOA, Nanking, 660 (.75)

Feb. 6

- 5:00-5:30—WKFI, Greenville, 1210 (1)

Feb. 20

- 2:30-3:30—HJN, Bogota, 681 (.5)

Feb. 27

- 2:00-3:00—HIZ, Santo Domingo, 1300 (.01)

Feb. 6-13-20-27

- 12:00-1:00—XEH, Monterrey, 1132 (.25)  
1:00-1:30—WTOC, Savannah, 1260 (.5)  
1:00-3:00—CMCW, Havana, 965 (.15)  
1:00-4:00—WSUI, Iowa City, 880 (.5)  
4:00-5:00—WCAH, Columbus, 1430 (.5)  
5:00-6:00—WAWZ, Zarephath, 1350 (.25)

## WEDNESDAY MORNINGS

Feb. 7

- 1:00-2:30—KFYR, Bismarek, 550 (1)  
4:30-5:00—WCAL, Northfield, 1250 (1)

Feb. 14

- 1:00-2:00—WIBG, Glenside, 970 (1)

Feb. 21

- 2:00-3:30—KWCR, Cedar Rapids, 1420 (1)  
3:00-3:30—KSO, Des Moines, 1370 (1)  
3:00-7:00—WQPL, Bristol, 1500 (1)  
5:00-5:30—WIAS, Ottumwa, 1310 (1)

Feb. 18

- 2:00-4:00—WNRA, Muscle Shoals, 1420 (1)

Feb. 7-14-21-28

- 6:00-7:00—WOOD, Grand Rapids, 1270 (.5)

## THURSDAY MORNINGS

Feb. 1

- 3:00-4:00—WRDW, Augusta, 1500 (1)  
4:30-5:00—WCBS, Springfield, 1210 (1)  
5:00-6:00—WRAW, Reading, 1310 (1)

Feb. 1-15

- 1:00-2:00—HIII, San Pedro de M., 1395 (.015)

Feb. 8

- 2:00-3:00—KWCR, Cedar Rapids, 1420 (1)  
3:00-3:30—KSO, Des Moines, 1370 (1)  
5:00-5:30—WIAS, Ottumwa, 1310 (1)

Feb. 15

- 3:00-4:00—WHBQ, Memphis, 1370 (1)

Feb. 22

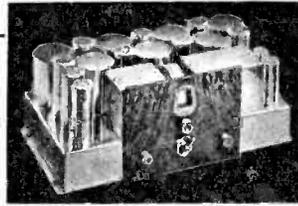
- 2:00-3:00—WRUF, Gainesville, 830 (5)  
4:00-5:00—WSPA, Spartanburg, 1420 (.25)

Feb. 1-8-15-22

- 2:00-4:00—CMK, Havana, 730 (5)  
2:00-4:00—WEDC, Chicago, 1210 (1)

(Continued on page 97)

*A Radio* **GUARANTEED**  
to give **WORLD-**  
**WIDE**



**RECEPTION** *Every Day!*

**THRILLS  
FOR  
EVEN  
HARDEST-  
BOILED  
D-X  
HOUNDS  
with**

*The*  
**SCOTT**  
**ALL-WAVE**  
*Deluxe*

**15 to 550 METERS**



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Specially designed cabinets  
—correct in furniture beauty  
and in scientific acoustic  
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Don't envy the fellow with a big list of verifications—have a bigger collection yourself!

It's a cinch with the SCOTT ALL-WAVE Deluxe. Owners all over the face of the globe are proving it daily—and the SCOTT'S reputation as a star distance-getter has for years stood supreme.

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You will get real thrills—real satisfaction—out of SCOTT ownership. And it costs less than you think. Send today for details.



**HERE'S MY  
IRON-CLAD  
WARRANTY**

If, after 90 days trial in your home, you are not convinced that the SCOTT ALL-WAVE Deluxe has finer tone, greater sensitivity and selectivity, and brings in more foreign stations, more stations on the broadcast band and more stations on the short wave bands than any other receiver that may be compared with it, you can return it to us and have every cent you paid for it promptly refunded. In addition to this, every part (except tubes) is guaranteed for five years.

President.

**E. H. SCOTT RADIO LABORATORIES, Inc.**  
4450 Ravenswood Ave., Dept. RX24, Chicago, Ill.

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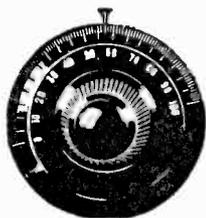
Send me at once, without obligation, all particulars regarding the SCOTT ALL-WAVE Deluxe, and PROOFS of its ability.

Name .....

Address .....

Town ..... State .....

FEBRUARY 1, 1934



# RADIO INDEX

Reg. U. S. Patent Office

FRED CLAYTON BUTLER

Editor and Publisher



B. FRANCIS DASHIELL  
Technical Editor

PAGE TAYLOR  
Short Wave Editor

TENTH YEAR

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**ADDRESS ALL CORRESPONDENCE TO CLEVELAND OFFICE**

# The BEGINNERS'

## STORY of RADIO

PART FIVE

Tuning the Radio-Frequency Circuits

• • • By B. FRANCIS DASHIELL

WHILE studying the actions of condensers we made an interesting discovery. It was: When a condenser is set to a given capacity, it will permit an alternating current of a given frequency to pass through its circuit. Then, when the capacity is changed somewhat, another alternating current of a different frequency will flow. Therefore, because of this definite relationship between capacity and frequency, we can make use of the variable condenser to select any frequency of broadcast wave that may be desired. The selection of these certain frequencies, or radio waves, is performed only in the *radio-frequency circuit* by the act of *tuning*.

If the frequency of the broadcast wave or signal that is being received is high, a condenser of small capacity is used (a small portion of the variable condenser's total plate area); when the frequency is low, the capacity must be large (all of the variable condenser's plate area in use). For broadcast station reception, a variable condenser having a maximum capacity of .0005 microfarad (500 micro-microfarads) will permit all frequencies between 550,000 and 1,500,000 cycles (550 and 1,500 kilocycles) to pass through the circuit which it tunes.

Now we will return to the receiving set for a moment. If we adjust the dial that controls the tuning condenser, we will find that we have set the condenser to some given capacity (value unknown), and that it will then be in *tune* with some given frequency. At this setting the condenser offers little resistance to one particu-

lar electrical vibration coming down from the antenna yet to all other frequencies it presents an effective resistance. Tuning a receiver is a simple matter. Let us see how it works.

### Tuning a Receiver

The resistance a condenser offers to the "apparent" flow of electricity is called *capacitive reactance*. Now, when the condenser is tuned to a state of *minimum* reactance, a given frequency will flow easily through the circuit. A tuned radio circuit, therefore, permits the passage of just one



Hi, Skippy! In real life he is Franklin Adams, aged 12 years and a student in the seventh grade at grammar school. He finds time for football and baseball when off the air and is also intensely interested in the collection of stamps. On the CBS, Mondays to Fridays at 5:00 p. m.

a.c. frequency, and prevents the flow of unwanted frequencies. This tuning effect enables us to select any particular radio signal from the chaos of vibrating waves that exists in the air about us.

But the condenser alone is not the only instrument at our command for the control of electrical vibrations in our radio sets. A single coil of wire—an *inductance*—also offers considerable resistance to the flow of an alternating current. And, like the condenser, its resistance to an alternating current is also a reactance—*inductive reactance*. Let us take some fixed inductance: The higher the frequency of the current, the greater will be the reactance of the coil; the lower the frequency, the smaller the reactance. Also, like condensers, small coils pass high frequencies; and large coils pass the low frequencies. That is why short wave receivers use small radio-frequency coils, or inductances, and broadcast receivers use larger coils.

#### Purpose of the Coils

Tune in a station with a fixed inductance, and then change the number of turns of wire on the coil. Immediately we vary the amount of inductance or reactance the coil presents to the flow of the given frequency, and that station is tuned out. But a new station frequency is tuned in. We have, therefore, changed the reactance so that a *new* radio frequency will flow easily through the coil. The coil inductance has been tuned to a given wave length or broadcast frequency. In the early days of radio, coils were tuned by means of switches and sliders. Today, in modern radio, we tune the inductances simply by means of variable condensers.

A coiled conductor, wound into an inductance, can be tuned by a variable capacity “shunted” around the coil. Such a coil is a radio-frequency coil, transformer or inductance, for all tuning is confined to the radio-frequency portion of a radio circuit. The coil must be tuned in order to find

a point where one frequency will pass through without opposition. This condition is called *resonance*. We can create hundreds of these points of resonance as we slowly turn the tuning condenser shaft. We really balance the inductive reactance of the coil by connecting the capacity reactance in parallel around the radio-frequency coil. The circuit now offers minimum reactance, and at this resonant point the tuned-in radio frequency will flow at its maximum strength. Other signals will be tuned out.

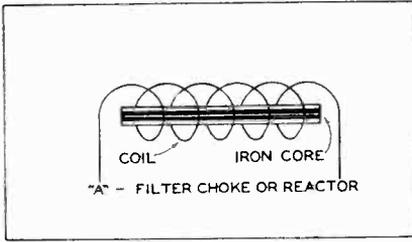
#### The “Why” of Tuning

What is inductive reactance? Why does it permit a single frequency of alternating current to be selected for passage through the circuit while all other frequencies, which also may be present, are choked back?

We have seen, in Part Two, that an alternating current will build up oscillating magnetic fields of force about a coil through which the current flows. This current alternates two times in every cycle, and so does the magnetic field. When the voltage drops from maximum potential at the peak of one alternation, as shown at “B,” Part Two, there also is a failure of the surrounding magnetic field. There is a slight lag between the two; the magnetic lines of force collapse upon the turns of wire, and induce additional voltages in the coil, just when the next alternation of current is beginning to appear from the other direction. Thus, these two currents tend to oppose each other, and the secondary effect is called *reactance*, *counter-electromotive-force*, or *self-inductance*.

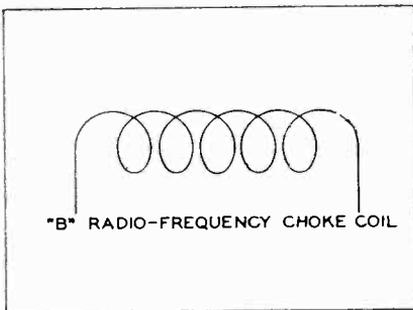
#### Impeding All But One Frequency

Self-inductance, then, tends to prevent the flow of alternating or pulsating currents through a coil of wire. However, there will be one certain frequency which will vibrate at the proper rate so that its self-induction and the original current will rise and fall between alternations at the proper moment. Both will be in step



or *phase*, and there will be no a.c. resistance, or self-induced reactance that will hinder the flow of the original current. Reactance is measured in ohms, and *impedance*, which is a certain combination of wire resistance, reactance and capacity, also is indicated in ohms.

The unit of self-inductance is called the *henry*. Smaller units are: the *millihenry*, which is one-thousandth part of a henry; and the *microhenry*, the millionth part of a henry. In a coil of considerable inductance—about 30 to 50 henries—which offers high reactance against the flow of most all alternating, pulsating, or rippling currents, the high reactance voltage developed will prevent potential changes in the current. This type of coil is called a *choke*, *reactor*, or *filter*, and the symbol used to indicate it in radio diagrams is shown at "A." Such coils have heavy iron cores with many turns of wire. The filtering effect is obtained because of the tendency of the inductance to smooth out all pulsations and ripples in the rectified current so the result-

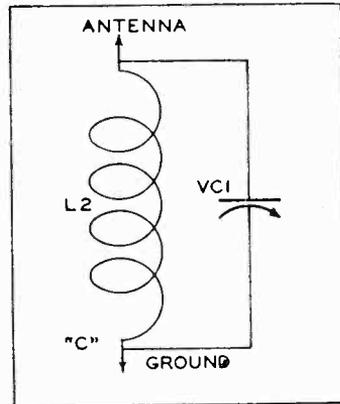


ing direct current will flow with a steady value. But we will hear more about chokes and filters when we discuss the power units of radio sets.

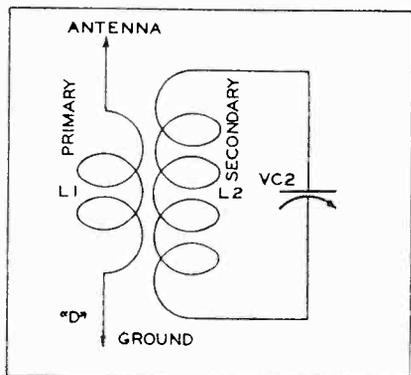
### The Primary Circuit

Smaller inductances used in radio circuits, are known as *radio-frequency chokes*. The circuit diagram symbol is shown at "B." They are wound on open tubes, and have values ranging from .05 henry (50 millihenries), down to .0005 henry (500 microhenries). These tiny coils choke back the faster radio frequencies, but permit the passage of the slower audio-frequency currents.

When we tune a radio circuit we simply turn a dial and adjust the capacity of one or more variable condensers. By so doing we bring the tuning inductance and the capacitance in resonance. The high reactance of the coil is balanced by the low reactance of the condenser when tuned to some given radio frequency. Such a tuning arrangement is shown in "C."



The variable condenser VC1 is connected across the ends of the coil L2. A change of VC1 will balance its capacity against the inductive reactance of L2 (which always is a fixed value), and change the total reactance so as to tune in some *other* radio frequency. Any slight movement of



the condenser rotor plates will change this state of balance to another point of resonance. Each change, then, tunes in some new signal.

### The Secondary Circuit

Connect a small, second coil (L1) between the antenna and ground, and couple it inductively to the inductance L2, which is tuned by the condenser VC1. We now obtain the scheme shown at "D." The small coil—about ten turns—becomes the primary; the larger coil—about 70 turns—becomes the secondary. Both, so arranged, make a radio-frequency transformer (see illustrations "G" and "H" in Part Three of this series). By tuning the secondary of this transformer we provide an *elementary radio-frequency circuit*. Only the radio-frequency circuits of a receiver are tuned to select broadcasting stations. It is here that the *selectivity* of the set is determined, and where *radio-frequency amplification* of the weak, original signals from the antenna is accomplished by the transformer action of the r.f. inductances or coils.

Hundreds of weak electrical vibrations are being constantly induced in the radio antenna by every passing radio wave. The broadcast wave, from the transmitting station, is a swinging, vibrating magnetic field. As it cuts past any metallic conductor within its range, it induces a slight current of electricity in the conductor.

This action is similar to that described in Part Three, illustrations "D" and "E." If it were not possible for us to tune our sets, all of these induced waves would pass through in a bedlam of interference. That is why, when a receiver is not selective and has poor tuning and resonance, there is much station interference.

### The T. R. F. Circuit

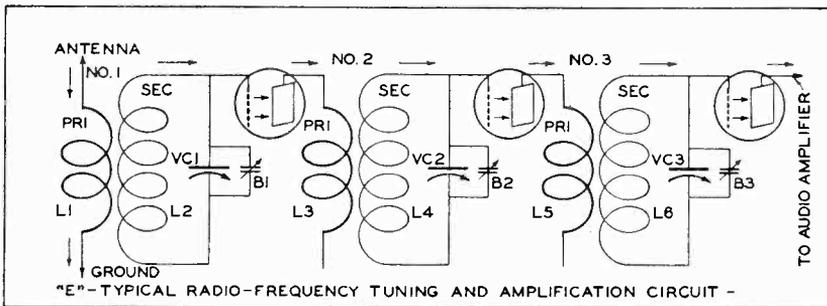
In the diagram "D," which now makes use of the radio circuit symbols shown in Part Three and Part Four, we see the primary coil L1. It permits most of the radio waves to pass down to earth because its reactance is very low; it is an *untuned* circuit. The currents passing through L1 will induce stronger currents in the secondary L2. But the inductance value of L2 is higher and, therefore, only those frequencies falling within its resonant limits—the broadcast band—will be reproduced.

It is necessary to tune out all of those frequencies induced in L2, within its resonant limits, for we wish to retain but a single wave for further amplification. This selection can be accomplished by varying the capacity reactance of the condenser VC1. The tuned signal, in this case, is stronger than the one selected by the arrangement shown in "C," for we have had the benefit of transformer action, or radio-frequency amplification.

### Building Up the Signal

We can add a second radio-frequency unit, similar in all details to the first, shown at "D," and thus provide two *stages* of radio-frequency transformers and tuning. At "E" these two stages are seen. The tuned, and amplified, signal, from the coil L2, is passed to the primary coil L3 of the second r.f. transformer. It induces stronger amplification in the secondary coil, L4, which is tuned anew by the condenser, VC2.

And we can add still another unit, and there will be *three* stages of r.f. amplification and tuning, as shown completely at "E." The strong, and



now sharply tuned signal, from L4, is passed to the primary L5 of r.f. transformer No. 3. Here, it induces, in the secondary coil L6, which is tuned by VC3, a very powerful current having the modulated carrier-wave characteristics shown at "E" in Part Two. The three stages of induction, amplification and tuning, provide a sharply resonant circuit extending from L1 to L6, for one frequency only. A change of VC1 will require changes in VC2 and VC3 so as to make all three radio-frequency stages again resonant at some particular radio frequency coming from the antenna. If the coils L2, L4 and L6 are identical, and the condensers VC1, VC2 and VC3 similar, the tuning can be accomplished by placing the rotor plates of the condensers on a single shaft and turning them simultaneously with one dial. Slight variations in VC1, VC2 and VC3, can be balanced by the tiny balancing condensers B1, B2 and B3. A radio-frequency circuit, sharply tuned and balanced, will pass but one frequency at a time. The signal is increased in intensity, or *amplitude*, and is ready to be sent to the detector and thence into the audio-frequency circuit for further amplification before it will operate the loud speaker.

(Since the reader already has been introduced to the mysterious electron, in Part Four, it will be appropriate to take him, next month, on a journey through the maze of screens, grids, plates, cathodes and filaments of our radio tubes.)

### Queries

1. In what two ways may one particular wave be picked out of the hundreds in the air?
2. What is the effect of adding turns of wire to a tuning coil?
3. What is the effect of meshing more plate area in a condenser?
4. How is the condenser connected to a coil for tuning?
5. How is a radio signal amplified?
6. When coil and condenser are in tune to some particular wave, what is it termed?
7. What is the unit of inductance? Of reactance? Of impedance?
8. If you were to attach phones to the r. f. circuit, what would you hear? Why?
9. How does a tuning coil differ from a choke coil?
10. Explain why, given a certain inductance and a certain capacitance, only one frequency of radio wave is permitted to pass.

*Those Radio Program "Slates" fill a long-felt want. Made of heavy, coated card stock, entries may be made and erased as your favorites change. Spaces are provided for every 15-minute period of each evening of the week and for Sunday afternoon.*

*Make up your own slate of programs and avoid missing those things you particularly wanted to hear. Price 10c each, two for 15c, four for 25c post-paid.*

# Little Life Stories of RADIO FOLK

• • • by "BETTY"

**W**ENDELL HALL, Red Headed Music Maker of radio's early days, was born in St. George, Kansas, in 1896. Except for a few years in Florida, Chicago has been Hall's home since he was three years old, and he and Mrs. Hall and the two little Halls, Wendell Woods, Jr., and Lowell Martin, now reside in Wilmette, a residential suburb on the north shore.

Wendell attended grade and high schools in Chicago, but he evinced a remarkable musical talent from the first and his parents wisely encouraged him. He sang in church choirs, quartets or wherever else he could find the opportunity until he reached the age of eighteen, whereupon he decided to take up orchestral music and proceeded to master, in turn, the clarinet, saxophone, trombone, zyllophone and later the ukulele. He went on the vaudeville stage as the "Singing Xylophonist" in 1917, but the war came along and he headed for France with the Fifth Anti-Aircraft Machine Gun Corps.

After the war, Wendell came back and resumed his vaudeville tour. But a new medium of entertainment was springing up, radio. Wise enough to see its possibilities early, the young singer in 1921 trekked over to KYW, the first radio station in Chicago, and offered his services.

## He Started the Thing

He was put on, singing his own songs, first without pay, and later for \$25 a week. It was while singing at KYW that Wendell composed and first sang his most popular hit, "It Ain't Gonna No More." The response was immediate, and from that time on he was "made."

Later, on his own initiative and backing, he made a nation-wide tour of thirty-five radio stations. In 1924 he married "the little girl in Chi-

cago," whom he had wooed over radio, in a radio wedding. They were married, at the demand of millions of radio listeners, in the studio of WEAF, with WCAP, WJAR, and WGN plugged in, the first network ever arranged for a private citizen. The bride was Miss Marion Martin, an employe of the reference department of the Chicago Tribune.

Wendell had the first national radio advertising contract, traveling from station to station as the "Eveready entertainer." If there is one characteristic predominant in Wendell it is originality. He turned up with fifty brand new songs when he went on the Fitch program, and he wrote both words and music for every one of them. Other singers have one voice, but Wendell sings in three, and yet it is not these novelties which have made him so universally popular. It is his personality.



*The Red-Headed Music Maker*

## A Story of Three Jacques

Two hundred and seventy-five pounds of flesh ought to make a heavyweight, but in the case of Jacques Renard it composes a musician, not a prize-fighter. This mighty maestro is heard over the Columbia network on bi-weekly programs with Col. Stoopnagle and Budd and the Sunday broadcasts of "Songs Your Mother Used to Sing."

There was a time when Jacques Renard was mistaken for a boxer. It was at Hot Springs, Ark., and a French heavyweight by the name of Jacques Renault was staying at the same hotel. By mistake the orchestra leader received and opened the fighter's mail. Renard immediately went to work and melted away sixty-four pounds, just to make sure there wouldn't be any more embarrassing cases of mistaken identity.

Several other facts about the portly Jacques, however, are of more importance than these weighty matters. Just when he was learning to play on the floors of his parents' home in Kiev, Russia, Jacques and the family moved to Boston. Shortly thereafter Jacques was able to hold a violin in his chubby hands and his father saw to it, with the aid of a flogging when necessary, that the lad practised and became proficient with the instrument in case visitors arrived who wanted to be entertained. Young Jacques not only got his musical start through the urgings of his father, but also learned to speak Italian fluently because of his parent's business. Father Renard, a former Cossack in the Imperial Army, had become an importer of Italian foods and Jacques had to help handle the foreign-speaking customers.

Between attending school and aiding the family's commercial enterprises, Jacques studied music with Jacques Hoffman. This early training created that desire to reach greater heights which Renard believes is largely responsible for shaping his career.

At the age of sixteen Renard



*Monsieur Jacques Renard*

toured South America as a violinist for the famous dancer Pavlowa. Later he accepted the baton of a Boston dance orchestra. The new position was so interesting that he was inspired to form his own orchestra and open his own clubs, the Mayfair and the Cocomat Grove.

Renard is married and the father of four children. The family lives happily in Forest Hills, occupying a penthouse in New York when they come to town for a change from suburban life.

### Strolling About Radio Row

B. A. Rolfe, the maestro, is known as the merriest man in radio, and Julius Tannen the saddest.

Frank Black, the NBC general musical director, has the largest and strongest hands, and Victor Young, the composer-maestro, the smallest hands.

Lee Wiley is given credit for being the radio star with the most chic; Jane Froman with being the loveliest lark in radio; Gertrude Niesen with being the most alluring; Connie Boswell with being the girl who waged the greatest fight against odds; Ethel Waters with being the greatest female stylist among the singers; and

Rosaline Greene with being the best actress in radio.

George Beatty is credited with being the stage star to make the greatest overnight hit in radio since Ed Wynn's debut; Albert Spalding with being the "high brow" who became a "regular fellow" with the musicians; Bert Lahr with being a comedian utterly without conceit; The Men About Town with being the slickest handlers of comedy lyrics; and the Revelers with being the most adept male quartet in history as well as radio; Rudy Vallee with being the celeb who has stood at the top longest despite scores of efforts to dethrone him; Johnny Marvin, the lonesome singer, with having the sweetest disposition; Frank Luther with having the most friends; Eddie and Ralph "Sisters of the Skillet" with being the safest bet a sponsor can pick when he needs immediate response; Will Rogers with being the one fellow nobody — even a sponsor — can guess what he will say next; and Edwin C. Hill with being the most forceful speaker.

### How They Got Their Start

Columbia has just taken a census to discover what musical instrument is most popular among the maestros themselves, and discovers that in most cases the orchestra leaders mastered the piano, fiddle or saxophone before they took up the baton.

Among the ranks of pianists are Jack Denny, Little Jack Little, Eddie Duchin, Vincent Lopez, Claude Hopkins, Isham Jones, Joe Hynes, Freddie Rich, Lennie Hayton, Don Voorhees, Nat Shilkret, and Willard Robison, who also sings. Jones also is famous on the sax.

The most retiring member of the fiddle section is Guy Lombardo, who holds one in his left arm as a "prop," but has never played it since he took lessons as a boy in London, Ontario. However, Mark Warnow, Erno Rapee, George Hall, Enoch Light, Vincent Sorey and Leon Belasco still make the strings hum.

The saxophone contingent has distinguished members in Glen Gray, Wayne King, and Carmen Lombardo, Guy's assistant and member of the sax trio of Royal Canadians.

Frank LaMarr makes a bid for originality as a xylophone manipulator, Freddy Martin and Abe Lyman turn to the drums, Louis Panico whoops it up on a trumpet, and Fess Williams the clarinet.

### A Song-Writing Taxi Driver

Here's a thumbnail sketch of Abe Lyman who completes with Glen Gray as tall man of the New York *Maestros* and who is so broad-shouldered he threatens to burst out of his tuxedo. Abe drove the first yellow taxi to appear on the streets of his home town, Chicago . . . played drums from childhood . . . abandoned the steering wheel of his taxi to thrash out syncopation in the Windy City's movie houses for \$5.00 a week . . . always got fired . . . Abe didn't like to be bossed and solved the problem by becoming boss himself . . . Organized a band for the Ship Cafe, Venice, Calif., and his music attracted the film stars of that time — Norma and Constance Talmadge, Thomas Meighan, Gloria Swanson, Charles Ray and Bebe Daniels . . . added four men to his 5-piece band and moved into the Coconut Grove at the Ambassador Hotel in Los Angeles where he made his fame and fortune . . . since then he's played the high spots of this continent and Europe . . . has written song hits—"Mary Lou," "Mandalay," "What Can I Say, Dear, After I Say I'm Sorry?" . . . Abe once loaned \$20 to a good-looking young foreigner who had been attempting to break into pictures . . . he was the late Rudolph Valentino.

\* \* \*

Lee Wiley, the songstress, has been worried for some time for fear that the melancholy note that inevitably creeps into her singing would not be entertaining to the lis-

*(Continued on page 48)*

# The EDITOR and the FAMILY

A Happy New Year

TO those hundreds of readers who sent us Christmas and New Year greetings and good wishes, we give our thanks. We are sorry we cannot reply to each one in kind personally but that being quite impossible, we take this opportunity to make a most fervent wish—that 1934 may be what it now promises to be, the threshold of a new prosperity and a new happiness. The weary months through which we all have passed, like a cold and gloomy night, will only serve to make the sun more welcome and make us more deeply appreciative and worthy of our blessings.

Our hearts have been touched many times in the months gone by, with letters from our readers who frankly confessed to the hardships they were undergoing and who were yet making real sacrifices to continue their subscriptions to our magazine. One, we recall, wrote that he was sacrificing his lunch that day in order to use his lunch money for a new RAdEX. Such loyalty and appreciation both humbles and exalts us.

That a new day is dawning we, at least, can no longer doubt. Our thanks go out to a great leader who dared to lead, who dared to take the offensive when weaker souls counseled caution and delay. The tide of battle has turned, the enemy is all but routed. It is at such a moment that loyalty and cooperation are needed. Let us follow our leader cheerfully and unquestioningly even into his mistakes and loyally depend upon him to lead us out of them again.

It is a matter of great satisfaction for us to mark the business improvement in our own small sphere. The month of October, 1933, was our best October since 1930. November was

the best since 1929. And December was the best month we ever had in our ten years' existence! So here's to 1934.

## Confliction in Club Activities

"In the January issue, I noticed comment on the duplication of DX programs because numerous clubs arrange them ignorant of the plans of contemporaries," comments Clement Van Velsor, 1033 Sanford Ave., Irvington, N. J. "The NNRC with over 2000 members, arranges a DX program for a Sunday morning, for instance, and then a club with five or ten members arranges with another station on the same wave and about the same time. This confusion of programs is very detrimental. The NNRC has about 26 stations announce-



May we present "Happy-am-I," the Elder Solomon Lightfoot Michaux, pastor of the little church on the Potomac, who presents their unique services via WJSV and the CBS every Saturday from 7:30 to 8:00 p. m.

ing DX tips and some twelve newspapers publish them. As a result, thousands all over the country are listening for those programs and hear interference because a club with a dozen or so members has arranged a program for their benefit. It costs time and money to arrange these programs.

"Personally I think a club with a few members ought not to try to arrange programs. When it has grown to a fair size, it should cooperate with other organizations to eliminate confusion. The CDXR and the ARC are large clubs and their work as well as ours is spoiled by a small group."

It is obvious that there should be some sort of a "clearing-house" for DX programs. Each club should report its DX programs as fast as they are scheduled and when a certain wave for a certain hour has been preempted, "first come, first served," any later programs scheduled for such conflicting hour and wave, should be canceled or changed by the club reporting, upon notice from the "clearing-house." Were it not for the vast amount of work that would be involved, RADEX would offer to do this work as it now receives notice of all special programs direct from the stations involved. It is possible the cost of the work might be borne by assessment upon the clubs either in proportion to membership or to number of programs arranged. The entire matter is referred to the attention of the DX clubs in the hope that a joint committee may be appointed to work out a solution for this vexing question.

### Our World-Wide Staff

We receive many comments on the accurate and up-to-the-minute data published in this magazine. Although we subscribe to radio publications from a number of foreign countries, our biggest asset is the great number of reporters we have (our readers) scattered all over the world from the northernmost shore of Alaska and Yukon to the most southerly in Chile,

Argentina, New Zealand and South Africa. To the loyalty and keen interest of these readers, we owe our success in keeping abreast of the ever-changing radio picture. As an instance, a single mail brought us *five* letters from New Zealand, each containing a notice of the reallocation in that country as published in our December issue. On behalf of the rest of our readers we thank these five friends for their prompt and thoughtful courtesy. They were S. N. Cartwright, Hakari, Mokon River, Mokon, N. Z.; George E. Bott, 507 Southampton St., E. Hastings; Frank Carr, 21 Lowther St., Wanganui; S. Robson, President of the NZDX Club, 100 Islington St., Invercargill; and H. B. George Lewis, 22 Union St., Palmerston N.

Says Mr. Carr: "2YA, formerly on 720 will be on 570 and 3YA will be on 720 after Dec. 1, with their new 3000 watt transmitters. I use a Philco 9-tube Model 90-E; my antenna is the four-wire type, 60 feet high, 600 feet long. I have verified over 200 American stations and others in different parts of the world. Would be pleased if any American DXer would write."

And from Mr. Robson: "Conditions for reception of American stations have been excellent during the past winter (the U. S. summer) and many new stations have been reported. Since writing last, I have verified a number of new ones among which were KWCR, WFEA, WABZ, KERN, KWG, WHBL, KGGM, KWSC, KMA, KMO, KMJ, KFBK, and KGFJ. September 10 was a great night with American stations coming in at great volume and I heard the calls of eight 100-watt: KDB, KIT, K FXM, KWG, KERN, KGFJ, KP Q and WEBR. Of these, KFBK and KGFJ were new to me and I have since received their verifications. European stations have not been quite so good in comparison with the three previous years but I have logged 20 new ones. My verifications

from European stations number 31 on the b. c. band."

### Radio Buyers Beware

Another "dodge" which might well have been included in our story "Gypping the Radio Buyer" in the December issue, is that of selling a receiver that will "get the short waves" when it will only reach down to 75 meters. "I have a Fada all-wave midget set," writes F. W. Einstein, 601 West 141st Street, New York City, on which the salesman assured me I could pick up the s. w. stations. It tunes from 75 to 550 meters and all I can get on the short waves are the police, airport and television and, of course, the 'hams.' Is there anything I can do to get some of the world stations." Unfortunately, as will be seen from the lists of s. w. stations we publish, there is very little between the b. c. band and 75 meters except the amateurs, police, airport and television stations. The "world" stations are pretty well all below 60 meters and therefore entirely out of the range of this "all-wave" set. There are a number of sets on the market which "reach into" the short waves but they are not all-wave receivers by any possible stretch of the imagination and readers should thoroughly understand this when buying them.

### This and That

"For the past month," complains Donald Weber, 1377 Park Ave., Plainfield, N. J., "I have been troubled with a strange buzzing noise in my set—in fact, all three sets in our house pick it up. When the antenna is removed it stops." The fact that three sets in the house pick this noise up is proof that the trouble is not in the set. This is also indicated by the noise stopping when aerial is removed. The next step is to see if the sets in neighbors' homes are troubled by the same noise. If they are it is coming from some place in the neighborhood. If they are not it is from within the house.



*Blue-eyed bluesinger, Loretta Lee, with George Hall's Hotel Taft Orchestra on the Sea-Bee-Ess, Saturdays at 6:30. This raven-locked, nineteen-year-old is a fellow-native with the Boswell Sisters of N'Orleans.*

Robert H. Weaver, 603 West Market Street, York, Pa., President of the National Radio Club, thinks it would be of great help if we could print a list of the mail addresses for the principal foreign stations on the b. c. band. None of the lists we receive from foreign countries contains the addresses. Can our readers help us? Send them in and we will compile them. This applies to Europe, Russia, Africa, Japan and China. We have the addresses for Oceania.

"My biggest peeve," concludes Kenneth Buxton, 282 Elgin St., Sarnia, Ont., "is that station that seems to delight to break into the middle of an overture to make a commercial announcement. Then I have to scramble all over the dial to find another station with the same program. I was listening to a band concert the other day and I had to get three sta-

tions to finish one program and then had to tune in a Canadian station to get the conclusion of an American band concert!"

#### From "Old Man" Henderson

Comes a letter protesting against our story in the December issue. He writes: "During the time intervening between the breakdown of the Department of Commerce and the burning of the Federal Radio Commission (which I claim was illegitimately burned), I went to Chicago and purchased the largest generator I could buy or that was manufactured at that time. Although my license, issued to me by the Department of Commerce who had been exercising authority they did not rightfully possess, called for 1000 watts, I put my power up to 3500 watts as at that particular time I had the right to do.

"I put the best coffee money could buy in a can, and the label, carton, postage on the package delivered anywhere in the United States for \$1.00. I explained that the coffee was not worth a dollar but the profit I could make on it was being used in my campaign to bring the people truths they couldn't get in the papers and leading magazines like yours.

"I did organize the Merchants' Minute Men (at a dollar a month dues) and furnished them with a card to hang in their windows, those who were not too cowardly to do so, but I furnished them with something you could or would not do—the truth. I have not consulted my books but I am sure the amount was not \$400,000.00. And—what if it was? I submitted to the Federal Radio Commission the amount of receipts and expenses of operation of the station and employing over a hundred people and I had nothing whatever to hide from them.

"Your next statement—'Henderson is now retiring from the air because of financial troubles' is only partly true. I have had my full quota of financial troubles, having been worth at least two million dollars in substantial properties which I was unable to

hold, and by paying the debts of the different lines of endeavors I was in, and actually took bankruptcy, giving up every single thing I possessed."

Mr. Henderson denies that the FRC refused to renew his license for KWKH and that, as a matter of fact, it was renewed as the "Hello World Broadcasting Corporation" with a blank of approval of transfer to the International Corp.

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## Last-Minute NOTES

SOME stations have evidently been excused from the frequency tests and some have been added. So far as we know, however, the tests are continuing monthly but we regret we have been unable to secure a revised list. Ray E. Everly, Newton, Ill., tells us that WEED, Greenville, N. C., on 1420 will test the first Tuesday of each month from 2:30-2:50 EST and that WOPI, Bristol, Tenn., on 1500, will test the same day from 2:50-3:10.

C. Hesterman of the CDXR, wants us to call special attention to the DX program on Feb. 24 of CFQC as this will be the first and last of the year for CFQC which has agreed to put on the program only on the assurance that they will not be flooded with requests from other clubs for specials. Again illustrating the danger of oversolicitation by clubs. Mr. Hesterman and Stan Clifton will do the announcing and the former agrees to verify personally every correct report received provided it is accompanied by Canadian postage or three pennies. His address is 610 Third Ave., E., Saskatoon, Sask.

KFLV, Rockford, Ill., on 1420 has evidently changed its call to WROK as several have reported picking it up on test and the call was clear.

CJRM writes to Harvey Kees, Beulah, N. Dak.: "The CJRM transmitter you are now hearing was originally CJRW at Fleming, Sask. We moved it out to Belle Plains, mid-

(Continued on page 47)

# With the High Frequency FANS

• • • and PAGE TAYLOR

## SHORT WAVE DX CALENDAR

Eastern Standard Time:

Jan. 27, 12:30 to 1:30 am, CP5  
Jan. 27, 11 pm to 1:00 am, PAOASD  
Jan. 28, 2:30 to 4:00 am, VE9CS  
Feb. 4, 9:00 to 11:00 pm, CR7AA  
Feb. 5, 5:00 to 6:30 am, PK1WK  
Feb. 10, 5:00 to 6:30 am, PK1WK  
Feb. 10, 9:30 to 10:30 pm, YV3BC  
Feb. 15, 5:00 to 6:30 am, PK1WK  
Feb. 24, 12:00 to 1:00 am, EAJ25

Station CP5, 49.3 meters or 6.080 megs., La Paz, Bolivia, will dedicate their special program of Jan. 27 to readers of RADEX. Any fan who has not yet heard the interesting programs originating from this station should take advantage of this opportunity of hearing a truly unusual program. CP5 is owned by Compañía Radio Boliviana, Casilla 637, La Paz, Bolivia. They may be identified by the expression "Radio Illimani." CP5 is on the air daily with a power of 1 kw. from 9 to 11:30 pm, EST. On Monday, Wednesday and Friday they also work from 6:30 to 7:30 pm, and on Tuesday, Thursday and Saturday from 6:30 to 8 pm.

### A Dutch Amateur

PAOASD is an amateur station owned by W. F. Jacot of Euterpesstraat 73, Amsterdam, Holland. The wavelength used by this station, 79.57 meters is, unfortunately, usually covered with interference and atmospherics and it is doubtful that it will be heard with the small amount of power used.

CR7AA, like PAOASD, will transmit their special program at what is perhaps the best hour for reception in this country, but on account of the long wavelength and low power, it is doubtful that this station will be heard. CR7AA works on 84.67 meters and can be addressed at Box 183, Laurence Marques, Mozambique. The programs from PAOASD and CR7AA

were arranged through the courtesy of the International DX'ers Alliance of Bloomington, Ill.

Radio Service Engineers, Ltd., 734 Davie St., Vancouver, B. C., announce that on January 28 their radio stations CKFC and VE9CS will transmit special DX programs which will be dedicated to all radio clubs. VE9CS will work on 6070 kcs. or 49.39 meters with 5 watts power from 2:30 to 4 am, EST.

### Those PK1WK Specials

A letter received from Mr. de Kort and printed in the January number of this magazine states that PK1WK works on wavelengths of 49.02 and 49.5 meters, but Mr. de Kort didn't mention which of these wavelengths would be used for the special transmissions which will be dedicated es-



Howard Marsh, ranking tenor of the light operatic stage and renowned for his leading role in "The Student Prince," is now on the new Buick program via the CBS, Mondays, 9:15 to 9:30 EST.

pecially to American listeners on Feb. 5, 10 and 15. As the two waves lie in the same band, however, it will be possible to skip back and forth between 49.02 and 49.5 until the station is heard. Address reports to Mr. J. F. W. de Kort, Radiohandel, Bragaweg 34, Bandoeng, Java.

EAJ25, The Barcelona Radio Club, Barcelona, Spain, works on 6.000 megs. or 49.97 meters.

### A Happy New S.W. Year

1934 promises to be a very interesting short wave year. Many new stations are scheduled to make an appearance this year, and already some of these have been reported, such as RNE and UOR3. Before the end of the year short wave listeners can expect to hear programs directly from Ceylon, New Zealand, from various French possessions in Africa, and from Christmas Island. At the present time we can record the arrival on the air of Radio Budapest HAT, which was heard and reported simultaneously by Roger D. Causse, P. O. Box 6688, Lester, Pa., and Sam Kiamie, 2857 Sampson Ave., New York City. Mr. Kiamie writes, "This is a new station and came in like a ton of bricks last Sunday. They employ a female announcer and announcements are made very rarely. She says 'Radio Budapest HAT', first in Hungarian and then in French." Mr. Causse gives the wavelength as 41.53 meters (7.220 megs.), and the time of his reception as 3.22 to 3:47 pm, EST, also on a Sunday.

### Wants Our Help

The French Colonial station requests the assistance of all shortwave listeners in helping them determine how their transmissions may be improved. Several readers have received questionnaires along with their verifications from this station, but all readers of this magazine can be of assistance if they will report on their reception of the various programs offered and include in their reports the answers to the following questions:

1. What is your exact location? (Latitude, longitude, City, State, Country).

2. Are you situated in a mountainous region? wooded? dry? humid? near the seashore? What is the altitude?

3. At what time of the year and at what hour is reception best?

4. What receiving equipment do you use?

5. What other shortwave stations do you hear regularly? their wavelengths? Are they better or less well received than Radio-Coloniale Francaise?

6. Do atmospheric disturbances annoy you? When are they most annoying? Are they as bothersome on wavelengths above 50 meters?

7. What do you think of our programs?

8. What programs interest you most?

9. How much time do you spend listening to them? What hours are most convenient for you to listen to them? At the present time these stations have four transmission schedules, given below in EST.

1. 8:00 to 11:00 am, 19.68 meters (15.234 megs.)

2. 11:15 am to 2:15 pm, 25.2 meters (11.898 megs.)

3. 3:00 to 6:00 pm, 25.2 and 25.6 meters.

4. 6:15 to 9:00 pm, 25.6 meters (11.711 megs.) 10 pm to midnight, 25.2 meters.

Letters to this station should be addressed to: Ministère des Postes, Télégraphes & Téléphones, Direction de la Radiodiffusion, 103 Rue de Grenelle, Paris VII, France.

### From Our Fans

"G6RX on 4302 kcs., 69.44 meters, roars in like a bear from 8 to 11 pm. This station is only testing but reception is wonderful; the volume and clearness amazes me. Records and short announcements make up the program with short intervals of dot and dash." This letter from Albert E. Lee, 30 Lakeside Ave., Pompton

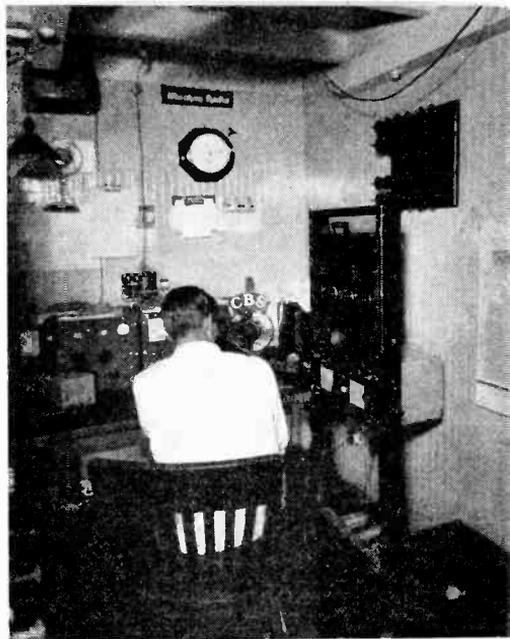
Lakes, N. J., is typical of many letters received. Richard M. Carter and Charles Perdicaro give the address as Rugby Radio Station, Hillmorton, near Rugby, Warwickshire, England. Others reporting G6RX are Mrs. A. Wilbur, 80 Green St., Newark, N. J.; Bernard Remilland, 53 Washington St., Brattleboro, Vt.; Wm. Ross, Jr., 3521 Kroger Ave., Cincinnati; Robert L. Weber; Clarence Sargent; R. W. Evans; Guy R. Bigbee of Ft. Benning, Ga.; and Sam Kiamie.

"The Voice of the Prairies, Ltd.," operators of VE9CA, Calgary, Alta., hope, at some not too distant date, to resume their broadcasting on short-waves. VE9CA works on 6.030 megs. or 49.72 meters.

### The Byrd Station

Many listeners continue to hear broadcasts direct from the S. S. Jacob Rupert, which must now be close to the Antarctic ice barrier. On the arrival of the Byrd Expedition in Little America, KJTY will be removed from the ship and set up at the Main Base, at which location it will be known under the new call sign KFZ. KFZ will radiate 1000 watts power, and will work on about the same frequencies as KJTY. Another station, KFY, with only 75 watts power, will be set up at the Forward Base, using the same frequencies as KFZ. These wavelengths are given in our complete list of USA stations this month.

Listeners should be very careful, when tuning for KJTY or KFZ, not to confuse these stations with many others which are on the air at the same time relaying their transmissions. Some readers are reporting reception of KJTY on frequencies which do not tally with their Federally assigned frequencies, but which do compare with those used by stations in Bolinas, Rocky Point, Kahuku or even Buenos Aires. The complete list of stations of the United States and its Possessions given this month will aid readers in properly identifying stations which might be heard relaying KJTY or KFZ. This caution,



*Here's the tiny cabin from which engineer John N. Dyer operates the radio control on the broadcasts from the Byrd Expedition aboard the good ship "Jacob Ruppert." This is the only combination radio broadcasting studio and sleeping quarters in the world.*

however, does not mean that KJTY cannot be directly received with good volume and clearness. Many interesting reports have been received, some of which follow.

"I have just left my receiver after picking up KJTY," writes Alfred H. Bacon, 928 13th St., New Westminster, B. C. "They were arranging Saturday's program for CBS and the position of the ship was given. They spoke of introducing the three stow-aways in the program, and mentioned that their dogs also would have a part. They mentioned that the weather has been good and no icebergs have been encountered, although they expect to see some within three days. The operator said that the ship's bell and siren would be used as usual."

"Stations KEE, KKH, KKQ, KEJ and W2XBJ have been heard many times working KJTY," reports R. W. Evans, 832 Richie Ave., Lima, Ohio.

"These tests usually take place on Tuesdays and Fridays from 9 pm on, and the actual broadcast is Saturday at 10 pm. KKH picks up the KJTY signal and relays it to KEE, who sends it to New York. I received KJTY on a new special freq. of 9520 kcs. at 11:40 pm. For some reason they never mention frequencies in their conversations, all mention of kilocycles being made by referring to 'No. 7' or 'No. 11', with the exception of 9520 and 11830, which don't seem to have a code number yet." These two special freqs. mentioned by Mr. Evans were assigned temporarily for a period ending January 5th.

Other readers reporting good reception of KJTY this month are A. B. Baadsgaard, Ponoka, Alta.; Robert L. Weber, Doyle E. Carpenter and Stuart Walmsley.

R. W. Evans of Lima, Ohio, includes this additional data in his letter: "Station YVQ was heard on about 6700 kcs. rebroadcasting YV1BC near 10 pm. Station XDC near 9350 kcs. has been testing with music at 5:30 pm EST. HJ1ABB seems to be working on both 6580 and 6500 kcs. now. CNR, Rabat, Morocco, was well received on 8050 kcs. on a Sunday afternoon. I received a very nice verification from CT1AA for a program I heard last July, so you see it takes quite a bit of time for them to get around to answering."

### "Radio-Tananarive"

The Directeur des Postes et des Télégraphes of the Radiotelegraphic Service at Tananarive, Madagascar, advises us that the correct and only call sign of their station is "Radio Tananarive," not FIQA or FIUI. His letter reads: "The station does not have an indicative sign; the transmissions begin with a piece of recorded music entitled 'Ramona', and end with the French National Anthem. The station operates on 6000 kcs. with a power of 400 watts antenna. We transmit every day except Monday, programs consisting of musical selections rendered by artists, or record-

ings, as well as news flashes." The schedule is given correctly in our lists under the heading "Radio-Tananarive."

"Quite a few of the South Americans have been coming through with fine volume lately and there are several that I have not identified yet," advises Stuart Walmsley, 1316 W. 58th Place, Los Angeles, Calif. "I notice that YV1BC is using a new wave, just slightly below W9XF, and they come through like a ton of bricks here, with their sign-off coming at about 6:30 pm, PST. YV3BC is another very good station. They are usually on until 7 pm, and, for the benefit of those who have not tuned them in, they announce every half hour, as do practically all the S. Americans. HC2RL is coming through fairly well with their Tuesday night broadcasts and I receive them best between 7:30 and 8 pm, PST. HIX, Santo Domingo, came through here on their last special broadcast although reception conditions were not good.

"All last week I heard a station broadcasting between W9XF and YV1BC. I could not catch the location when the announcement was given but their call sounded like TGR. There is no such station listed and I have not heard it again."

### A New Peruvian

TI4NRH, Heredia, Costa Rica, was recently heard near 7 pm, EST by Clarence Sargent, Dansville, N. Y. "Their signals fade a lot," he writes. "The volume of this station varies, during a single broadcast, from R4 to R8, and the quality from QSA2 to 5. I have also heard a new station on about 48 meters, OCM, Lima, Peru. They broadcast very good music and request reports from SWL."

OCM has also been reported by J. A. Shanks of Russelville, Tenn. He postcards, "Do you know of a Colombian on the Hi frequency side of HJ1ABB? His call was HJ1A— (missed the last two letters). I also hear a Colombian on GSA's freq.,



*Strange folks and stranger ports are brought to you each Thursday at 8:00 p. m. EST over NBC WJZ in Captain Diamond's Adventures. Al Swenson is the Cap'n, May Buckley plays his wife and Laddie Seaman, popular NBC juvenile, plays the part of Tommy.*

which I think might be HJ4ABI."

#### And Other Colombian

Two readers report a new phone station in Barranquilla, Colombia, testing with WNC at Hialeah, Geo. W. Burns of 2466 Wahl Terrace, Cincinnati, stating that he believes the call letters are HJA3 and the frequency, 12.832 megs. Richard Carter, 820 McKinley, Ann Arbor, Mich., writes, "I heard a station on about 20.15 meters calling WNC and wishing to test with them. This station gave its location as Barranquilla, Colombia, and the call might have been HJS or HJF."

"My veri. from ZFS gives their address at Office of Superintendent of Telegraphs, Central Bay Street, Nassau N. P., Bahamas," contributes Mr. Carter of Ann Arbor. "Their traffic with England is irregular. Since then I've heard ZFS calling ZFV, South Africa, and a woman calling CQ to all ships. They sometimes have traffic with GYC and GYD, England, between

9 and 10 pm, EST, and have also been heard working VPSX. Tonight, 6:30 to 7:10 pm, I heard a station in Montevideo, Uruguay on approx. 29.3 calling New York. XETE was testing near 6:30 am one morning near 32 meters. IAC is coming in well again on 45.1 meters in the late afternoons. HIX has moved down to 49.5 meters to get away from the CW which seems to be ever present on 50 meters. YVR on 32.7 m. frequently works EHY, Madrid, near 4 pm. YVQ was heard relaying programs of YVIBC, and one evening they were heard on 44.96 meters rebroadcasting the German stations between 6 and 7 pm. I note that their 22.48 meter and 25.67 meter waves are almost always on at the same time."

#### Some Brief Reports

"I believe I have been very fortunate in reception on the short wave bands, even though a bus line runs right past my door," comments Wm. E. Lewis, 618 Quincy St., NW., Washington, D. C. "I have received six Daventry transmitters and have a very nice letter from the BBC in reply to my reports. I have also heard G6RX, Rugby. The Deutschlandsenders come in well here, so I have been able to log the four Zeesen stations. They are also very good about answering letters. I just received a verification from Mr. George Abbes, owner of HIZ, Santo Domingo. He states that HIZ is on the air daily from 4:40 to 5:40 pm EST and broadcast special DX programs every Saturday night from 10 to 12 pm, EST. They only use 20 watts power in the antenna, but their volume is very good at this point of reception. I use a Philco Model 490, 2-tube built-in converter, and it gives very faithful service, even with the aforementioned electrical interference ever present. I will answer any letters I may receive, but am especially anxious to hear from owners of Philco 490's."

#### Misses His European News

"A couple of Saturday nights I got the Byrd broadcast much better from

KKH than I could get it from the network," contributes D. E. Carpenter, Emmetsburg, Ia. "I suppose Byrd was using 13.2 megs. which of course had faded out here much earlier. PSK is the only one of the S. Americans which is consistently good. I2RO has deserted me while Rue de Grenelle was heard only five times this month. I have a personal grievance with London for taking GSF off the morning schedule. They were the old stand-by for the early news from Europe."

"Here is some miscellaneous information and a few observations on s.w. stations heard lately," contributed by Robert L. Weber, West McHenry, Ill. "PSK, 36.65 meters, announces that they relay programs from PRAG, and they welcome SHORT reports and will verify with a card showing views of the City of Rio de Janeiro. I have been very fortunate in receiving all three stations listed in RADEX for the Dominican Republic. Heard HIX this morning on their DX special. H11A, according to a card received from them, work from 8 to 10 pm daily. These hours are Santo Domingo time, which is 20 minutes faster than EST."

News from Australia is contained in a letter from Clement Van Velsor, 1033 Sanford Ave., Irvington, N. J. "My Aussie friend reports that CQN, city of Macao, on 49 plus, is being heard around 4 am, EST, several mornings a week, and that ZHI, 49 plus meters, Singapore, is reported around 5 to 8 am, EST."

#### Some Tips

"Here's a tip for those who like to listen in on the 'ham' bands," suggests K. P. Williamson, 1610 Sherbrooke St., W., Montreal, P. Q. "On two successive Sunday afternoons I have heard K4SA, Porto Rico, on 20-meters. He comes in here with fine volume and I received a nice QSL card from him confirming my reception of his station. Prior to the bad spell on shortwaves, I was rather fortunate and added these new stations to my log: CNR, RV59, and SUZ,

which was phoning DGU near 6 am, EST."

J. A. Shanks of Russellville, Tenn., and Roy E. Robinson of Providence, R. I., have confirmations from RNE. The Director of the station, Mme. Inna Marr, told Mr. Shanks that tests between the USSR and the USA take place each Monday from 1230 to 1500 GMT. The address is given as: Comisariat du Peuple des Communications Postales et Eléctriques de l'URSS, No. 17 Gorki Street, Moscow, USSR.

"Less than a year ago, I received one of those wonderful Midwest 16-tube superheterodynes," writes the Rev. Jerome Shiltz, 120 Courtland Street, Wellington, Ohio. "I have received many foreign stations—EAQ, I2RO, FYA, CT1AA, GSA-B-D-E, VK3ME, DJA-C-D, YVQ, GBB-U. Also, of course, many amateurs and police from Maine to California and from Canada to Florida. I would be glad to hear from other Midwest users."

"I am using one of the Midwest 16-tube receivers which really goes after them," advises Richard F. Miller, 515 Ridgeway, Dallas, Texas. "GSA, 49.56 m., and DJC, 49.83 m., come in loud enough for rebroadcasting. I have EAQ, VK2ME and 3ME verified and will probably get one from Germany next month. GSA sent a nice card of thanks but did not verify. YV1BC and 3BC are almost like locals. LSN and KKP are very strong. But not a peep out of the Japs. Perhaps I don't get up early enough."

*The second edition of the DX Log of the World will contain the reallocation in Europe and New Zealand. It will be on sale at most newsstands on February 1st. Price 10c.*

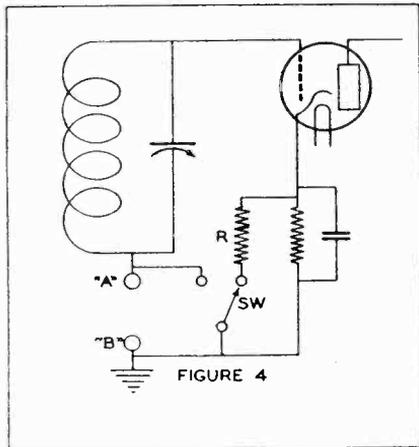
# Using MICROPHONES and Phonograph PICKUPS

PART 2

• • • By B. FRANCIS DASHIELL

**L**AST month we discussed a few simple methods of attaching phonograph pickups and microphones to radio receivers. For those readers who wish to make permanent installations, and get maximum results, we suggest three circuit alterations which are not complicated. Any reader, who is experimentally inclined, can make the connections without difficulty. A study of the circuit diagram of the receiver in question will quickly show how the unit is to be placed.

In Figure 4, the circuit at the "low" end of the grid coil of the detector tube is disconnected at the ground. One contact of a two point switch (SW) is attached to the end of the coil, then the "A" and "B" output terminals of the unit are connected in series with the coil and ground, as shown. The lever of the switch is next grounded. The second contact of SW connects to the cathode of the



tube through a 5,000-ohm resistor (R), inserted so as to increase the bias when the unit is used. When the switch lever is set on the right-hand contact the resistor is cut in and the tube acts as a first audio amplifier, instead of biased detector. When the lever is set on the left-hand contact, the unit output is grounded, and the tube acts as the original detector for radio signals.

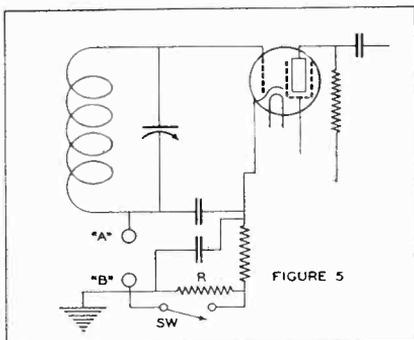
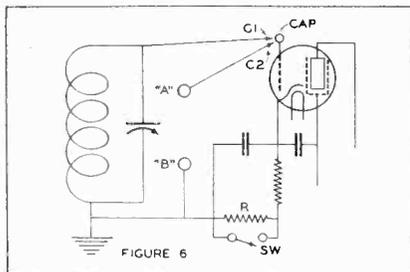


Figure 5 shows a somewhat similar method, except the switch (SW) merely shorts the resistor R. It is used when the detector grid is fed from an intermediate transformer stage (superheterodyne). When SW is closed, R is shorted, and the detector becomes an audio amplifier.

And, in Figure 6, we see an arrangement for any power detector of the tetrode type, such as a -24A, -32, -35, -36 and -51. The resistor R furnishes sufficient cathode bias so that the tube will act as an audio amplifier when the microphone unit is in use. Contacts are made to the control-grid cap of the tube. These two leads, shown at C1 and C2, must be changed whenever the unit is operated, for a



switch in the grid lead is impracticable. Similar arrangements can be made for detectors of the triode and pentode types, but changing the grid connections at the socket will be more difficult than at the top cap.

For diode tube circuits of the earlier types of tubes, the output unit ("A" and "B") can be applied to the leads across which the detected or rectified signal exists. For modern diodes, such as the -85 type of detector, the unit output is applied directly between the control grid and ground, or shunted across the grid-bias resistor. The triode section of the tube circuit is already taken care of by design, and the circuit is wired for audio amplification, so no alterations are necessary.

## Radio in BELGIUM

I AM a constant reader of RADEX as my home is in Brooklyn. I am now visiting in Europe. I have over 350 stations logged from my New York residence. In Europe, my aim is not DX, though I must say I have received outstanding results without even looking for them. Twenty days out of every month, WEAf, WABC, WTIC, WTAM, WCAU, KOA, WBBM, and CKAC can easily be picked up here. The general signal is QSA 3-4, and R 7-8. These stations are all of a considerably lower power than most European stations. The maximum in the U. S. thus far is 50 kw. On the continent we have Prague with 150 kw., Luxembourg

with 120 kw., Leipzig with 150 and dozens of other high-powered transmitters which should certainly make themselves heard in North America. Yet the only European I was ever able to log in N. Y. was Radio Normandie. It's really some riddle.

European local reception can in no way be compared with that in N. Y. Save for one or two stations, the rest do not come in like those in N. Y. Besides the music, background noises can always be heard. This is not judged from the receiver I am using but from at least half a dozen in various locations.

Distant reception is something very puzzling. I can't make out how Moscow can come in here all day long without interruption. Surely no one in N. Y. can claim constant reception of even Chicago. It's just one of those mysteries which goes to make radio all the more interesting.

*F. Maybarduk, 217 Rue de Campine, Liege, Belgium.*



*Maria Silveira is the possessor of the lovely soprano voice you hear on those Saturday night broadcasts over CBS for the Byrd Antarctic Expedition. She helps William Daly and his orchestra cheer up the explorers way down at the bottom of the world.*

# STORIES of the Log Builders

## The Foreigners Are Coming in

SCORES of readers are this month joining for the first time the "Heard-Other-Continents" Club. That program of LR5 on December 3, was the key that opened a new field for many.

"Thanks to your DX calendar, I enjoyed a whole hour of the program of LR5 this morning," writes Ray H. Zorn, Troy Grove, Ill. "They came in very well and had a nice variety of selections. This is my second S. A. on the b. c. On the morning of Nov. 18, I received CX26 at Montevideo on 1050. My log now stands at 352 with 122 using 100 watts or less. My best: KFPM, CHML, XEFV, KPCB, KXL, WSYB, XEFZ. I use two sets; an Echophone 6-tube, several years old, and a home-built 3-tube which I use for local stations. I bought the first issue of your 'DX Log of the World' the minute I saw it and shall buy each succeeding copy. It is a much-needed and valuable book."

"Thanks to RADEX for a real radio thrill," exults B. S. Hastings, 4333 Coolbrooke Ave., Montreal. "I was able this morning to receive LR5, Buenos Aires, loudly and clearly on my 8-tube Atwater Kent. Don't cut any part of RADEX out," he adds. "My only interest to date has been the b. c. band but before many weeks, that s. w. section of yours is going to have me hunting a converter."

Another who received LR5 as a result of the notice of their DX program in our Calendar (thanks to the International DXers Alliance) was Frank Hilburn, 106 Mathew Street, Yoakum, Texas. Frank has heard several Japs and would like some tips on the best time to tune in some Aussies. He has increased his aerial from 25 feet to 200 and finds much better reception.

Among others who reported good reception of LR5 were Ivor Nixon,

Room 505, 45 Richmond St., W., Toronto; C. R. Anderson, 1026 1st N. E., Mason City, Iowa; Joe Stokes, 7318 Woodlawn Ave., Swissvale, Pa.; Frank Wheeler, 406 Eagle Point, Lakeside, Erie, Pa.; Earl R. Roberts, Newark, Ohio; Paul W. Craven, 190 Commonwealth Ave., Buffalo, N. Y.

"I am an ardent DXer," confesses J. M. Forbes, Keewatin, Ont., "and my log now totals 316 counting four police on 1534 and 1574. Some of my best: 2YA, CX26, LR5, CMCW, CHAB, 10-AT, 10-BI, CHRC, CKMO, CKWX and many others. I have not been able to pull in Japan or Australia yet but hope to after receiving my Time Converter.

### Defends Canadian Commission

"To the person who gives an unfavorable criticism of the Canadian Radio Commission in your December issue," continues Mr. Forbes, "I would like to say that, in my opinion, radio has never before been as well organized and of such a high standard in Canada before. I say, give the Radio Commission a chance. They've only started and I think they've made a wonderful beginning considering their handicaps and the terrible mess things were in when they started. As for the two-dollar license, I think it's cheap considering the fine entertainment sent out by the Commission with long harangues telling you what you ought to wear or eat or brush your teeth with."

And Clement Van Velsor, Irvington, N. J., adds: "The reader who complained about the set-up in Canada evidently likes the same type of program as many on this side, that is dance music and other such stuff. Whenever I cannot find anything but dance music in this country, I turn to Canadian stations where usually I can find good music."

### Tries His New Set

"A new voice is joining your fellowship from North Hollywood," greets Richard L. Bullard, 5649 Irvine Ave., North Hollywood, Calif. "I am entering the season with a brand new Midwest 16-34 chassis, and I am getting all prepared to make this the greatest in my career for DX. Since I have had the set, I have just listened here and there, hit and miss, to see just what the set could do. I am more than satisfied. In the face of poor DX conditions here on the coast, I have logged in the past month YV1BC, YV3BC, YVQ, Prado, LSN, Santo Domingo, Pontoise, EAQ, W3XAU, VE9JR, W8XK, W3XL, W1XAL, W3XAL, W2XE, W9XF, VE9GW, VE9CS, W2DAF—all on the s. w. On the b. c. band, I have received all the big stations and many smaller ones. On the long waves, above the b. c. band, I have had KCD, Oakland, KLK, Reno, KCAT, KCL and several others. You are going to hear from me often as I used to be an ardent DX fan with a 2-tube Harkness. I would be pleased to hear from other owners of the Midwest 16, telling about their results, aerial and ground installations, etc."

### From Alaska and Arizona

From Curry, Alaska, (Box 14) comes this report from A. J. Bubnik: "I have a Scott all-wave receiver and during the past seven weeks I have logged on short waves, W8XK, GSB-D, EAQ, W2XAF, W3XL, Pontoise, W1XAL, PSK. All these stations come here daily. I have heard a lot more but was unable to identify them. On the b. c. band, I have so far around 120 stations as far east as N. Y. I hear every night five or six different stations in New Zealand and Australia; Honolulu and Japan every night. Conditions for reception here in Alaska are very bad, however, on my Scott deluxe, I have been able to catch quite a few stations in these few weeks that I have had it."

"Perhaps my most unusual catch was KZRM, Manila, on 618.5 at 4:00

a. m. MST, on the morning of December 3," thinks Howard G. Mathis, Box 301, Holbrook, Ariz. "The program was heard for an hour and a report has been sent in for verification. The station was strongly received but has not been heard since! On the b. c. band, I have received 384 stations including 2BL, 5CK, 2CO, 3FC, 2GB, 4QG, 4RK in Australia and 2YA in N. Z. My Japanese list has reached 22 and XGOA, Nanking, China. On the s. w., the list includes 32 b. c. stations, those outside the U. S. and Canada being GSB-C-E, DJB, EAQ, FYA, LSN, LSX, YV3BC, HJ1ABB, H11A, XETE, [VK2M E-3ME], RV15 and J1AA."

### Readers Report Progress

"I started DXing on December 25, 1931, and in exactly two years I have built up a log of 582 stations," sums up Stuart Russell Garnett, 4131 Wolf Road, Western Springs, Ill. "Of these I have 490 verified. Some of my best catches are YV1BC, LR5, 2YA, 10-AT, CKMO, KGFJ, KREG, WKAQ and CMCU. I have all the 10-s in Canada except BU. I have logged all the states but Rhode Island and Delaware and all the Canadian provinces but New Brunswick and Nova Scotia. My biggest surprise was winning a crate of apples as one of the three farthest listeners to KPQ's dedicatory program of their new 100-watt transmitter. Incidentally, this was my first 100-watter from the Coast."

"I received a fine veri from Radio Normandie just 19 days after I sent my report," announces Charles Leboeuf, Box 222, North Grosvernordale, Conn. "I expect one from Poste Parisian soon. These two French stations are on the air every morning at 2:15. I can hear their carrier wave about five minutes before they begin to broadcast. They broadcast phonograph records and news dispatches. I have also received LR5, KDFN, CMCA, CJOC, CRCS, 10-AK, CHNC, XEB, XEFO, FQN." Charles has a triangular-shaped aerial

about 300 feet in length in all. He states that it gives him good volume and very little fading.

### Through the Chicago Barrage

"Although I am located in the city of Chicago, where there are stations on many waves," begins a new reader, Blake H. Page, 3045 W. Washington Blvd., "yet I have succeeded in logging 437 stations with my 14-tube Zenith Model 103 which I have had only since last March. On December 13, between noon and 4:30 p. m., I picked up 32 stations from Mexico to Minneapolis and from New York City to Dallas. I use a cage 30-foot antenna with a shielded lead-in of about 40 feet. I am also using an ICA line filter." Mr. Page submits a list of stations received showing every channel, a number of them being completed.

"My log now includes all states with many completely verified; all channels except 1030," remarks J. Kenneth Vetter, 964 Waukegan Road, Deerfield, Ill. "I find DX practically annihilated on either 1200 or 1210 due to all-night pests. It seems to me, even though little restriction is placed on using the air from midnight until six a. m., that these stations take a very selfish attitude in the matter. My best catches so far this season are 2CO and LR5. Other fair ones are XETB, CMBK, KERN, KIEM and XEAI. Although many DXers report that CRCM refuse to verify, I received a very nice letter from them about three weeks ago."

### Notes and Tips

"We were obliged to suspend our DX programs six weeks ago after putting on only two or three," writes Wendell Cox of Station XES, Tampico, Tamps. "We now wish to resume these but would like for you to advise us the best days and the best hour. We intended to use the first and third Saturday morning of each month at 1:00 a. m., or just after KYW, Chicago, also on 1020, signs off, and that time would be convenient if no other station is on 1020

at that time." We have advised XES that inasmuch as they have practically a clear channel except for KYW, these hours should be entirely satisfactory. We may not have a confirmation from them in time for this month's calendar but listeners would do well to try to tune them in at the hours they mention.

We are glad to be advised by CHAB, Moose Jaw, Sask., that the report of their death, like that of Mark Twain, was "greatly exaggerated." "We are on the air broadcasting on regular schedule," writes H. C. Buchanan, Secretary. "Our station is owned by the people of Moose Jaw." Also comes a correction from 10-BQ at Brantford: "On page 39, January issue, you state 'CKPC formerly 10BQ now Brantford.' Would you kindly make correction of the above. CKPC and 10BQ are separate stations. CKPC was formerly of Preston, Ont., is now located in Brantford. 10-BQ—"The Little Station of the Hill" is still operating in the same old way."



*Here is the wicked "Ardala Valmar," the feminine villain of "Buck Rogers in the 25th Century," Monday to Thursday on the CBS. Elaine Melchior as the fascinating Ardala is plotting among the planets to rule over Venus. We're going to vote for her.*

"The new radio station here in Springfield (Mo.) is to begin operating regularly at 6:00 a. m. CST, Monday (Christmas) morning. A last-minute change in call letters was made from KGIZ to KWTO ('Keep Watching The Ozarks'). It will be on 560 with 500 watts. I think they plan to use KGBX's frequency check in January." Thus reports James Owen, 1019 W. Webster, Springfield, Mo.

"Here is a tip for those who have not logged British Columbia," offers Richard M. Carter, Ann Arbor, Mich. "CRCV comes in well every night from 1:00-2:00 a. m., EST." Richard adds "Radio certainly is peculiar. I heard the harmonic of WDAS on 4,110 kcs. at 4:00 p. m. and that of WGLC on 6,850 at 8:00 p. m., both 100-watters and impossible for me to hear on the regular b. c. band at those hours."

"There are two Newfoundland stations you never list," points out Harold Canning, 617 W. Highland, San Angelo, Texas. "They are VO GT, 950 kcs. 100 watts, Bell Island, owned by the Rev. Mr. Rawlins, and Vo8A, 6800 kcs., St. Johns, owned by E. Ash." We were advised some time ago that VOGT was off the air. Can some of our eastern readers verify?

XEAE, Tijuana, B. C., on 980, has joined the all-nighters, according to Clarence C. Bergen, Mountain Lake, Minn. They will be on the air every morning except Sunday from late in the evening until 5:00 a. m., EST.

The new official list of the Canadian Radio Broadcasting Commission does not show CJ RW, Fleming, Sask. Has it been deleted or is this the new station CJRC, 1390, Middlechurch? Will some of our Saskatchewan readers please advise us?

"WCBM, Baltimore, broadcasts our DX tips every Friday morning at 12:01 EST and KDKA every Monday at 12:30 a. m.," says A. W. Opper, Executive Secretary of the NNRC, and adds: "Radio Normandie, 1328 kcs., Fecamp, France, is coming through quite steadily every morning

except Sunday for an hour after the start of their regular broadcast at 2:15 a. m., EST."

## HELP WANTED

### Male or Female

WHAT good Samaritan will give these readers a helping hand in solving their problems?

"Tuesday a. m., Dec. 19, CST, I tuned in on my Majestic 131 t. r. f., a station on exactly 980 kcs. after XEAE had signed off at 1:30 a. m. This station announced they were in San Diego, Calif., and said they were the greatest little 50 watt station in the world. They played recordings and were ashamed to give their call letters. They were on until four a. m." This sounds like an outlaw. Perhaps some reader in San Diego can tell us.

"I always hear a very weak station on about 1054 kcs. at 2 to 3 a. m.," resumes Mr. Jesse L. Lausman, 717 S. Shelby St., Louisville, Ky. "They broadcast stock market reports of British controls and talk about farming, wheat crops, etc. Who could this be at such an hour?" The stations in Palmerston North, N. Z., were on 1050 until December first. Since that date Dunedin stations have been on that channel—4ZM and 4ZO—but these have only 100 and 25 watts respectively. Can anyone make a better guess?

\* \* \*

F. Wiseman, 13 Kyle Street, Scotswood, Newcastle-on-Tyne, England, proves his reception in an unmistakable way by reproducing the program on a phonograph record and mailing it immediately to the station heard. Now he is stumped with a station heard on 1000-1010 kcs., below WBZ and above KWJ. The program was organ music. The speaker said "WHA (or WAK) broadcasts for James Winston . . . New Haven." Mr. Wiseman has played his record over and over and feels sure the call is WHA.

It was not, of course, WHA on 940. Mr. Wiseman is exceedingly anxious to identify this station and if any reader can think of a solution, he should write Mr. Wiseman at the above address.

\* \* \*

"Since last writing you, my log has increased from 414 to 508," counts up David Walton, P. O. Box 87, Picton, Ont. "My recent catches include LR5, HIX and VE9EK. In answer to Ernest Byers in the January issue, I have heard the slogan 'The Voice of the Adirondacks' used by WHDL at Tupper Lake, N. Y., on 1420. Who can tell me what station was broadcasting on 1210 on the morning of Saturday, Dec. 23, using only Spanish? (XETZ is on 1210) Does WIND ever sign off before KTAB? Every time I try for the latter I am foiled by a 'Milkman's Matinee' or something."

\* \* \*

"On Dec. 3, I heard a French-speaking station on 1320 kcs. from 2:30 to 3 a.m.," says Paul W. Craven, 190 Commonwealth Ave., Buffalo, N. Y. "I couldn't identify him because of the heavy static. Did anyone else hear him? It wasn't a harmonic of CKAC because they weren't on at the time. (Ed. Fecamp, France, is on 1328 and has been rather widely heard in the U. S.) Am using a Stewart Warner all-wave 8-tuber. Would like to hear from anyone who has a similar set."

\* \* \*

On Christmas morning, W. T. R. Morris, Jr., 3219 Garland Ave., Richmond, Va., picked up a mystery station on 1280 in a language he could not understand but which sounded like a mixture of German or Italian. The station faded at dawn which was another indication of its being a foreigner. He feels sure it must have been Lodz, Poland, on 1283. The program was typical of Christmas with a chorus which sang several well-known anthems. Did any other reader chance upon this program? It



*If you've wondered if Rubinoff is as black as Eddie Cantor paints him—well, here they are in a studio on the movie lot in Hollywood with Eddie still in his "Roman Scandals" makeup.*

was logged from 5:50 until 6:50 a.m., EST.

\* \* \*

"My set is a Stewart-Warner, Model 102-B, with a built-in converter, Model 301-B. Six tubes are used with two more in the converter. I have not been entirely satisfied with the operation of the converter. The only stations off the continent that I can pick up are Pontoise and GSE, Daventry, both on the 25 meter band. Have also heard BSA on 49.56 m. I would like to hear from someone who is using the same models as to their results on the s. w. converter." The inquirer is Edgar W. Jones, 1250 5th Ave., S., Lethbridge, Alberta. Who can help him?

\* \* \*

"Every morning, about 3:00 or 4:00 some weak station broadcasts on the same channel as WTAM (1070)," says Joel H. Armantrout, 602 E. Magnolia St., Fitzgerald, Ga. "I cannot catch the call as the signal is too faint. Could you tell me what station this is? I have a 1934 6-tube Philco midget. I have had it only

two months and in that time I have logged 306 stations on the regular b. c. band of which 76 are 100-watt." Joel wants to join a good DX club.

\* \* \*

"I recently purchased a 10-tube Clarion superhet. Sunday morning, Dec. 10, around four or five a.m., EST, I turned the dial to 559 kcs. and heard a program with the announcement 'This is D9AN testing.' To make sure I listened to another selection and then the same announcement. He talked about European broadcasting but I could hold them for only ten minutes then they faded completely. Can you help me identify this one?" This query is from Paul Spachman, 13 Hillside Ave., Souderton, Pa. Who can help?

\* \* \*

It is our understanding that the Radio Commission is excusing some of the stations from further frequency tests, perhaps after they have been successfully and correctly checked. No announcement is made of such exceptions. William Benz, 4717 Morganford Road, St. Louis, writes that he has tried hard for WKAR, East Lansing, and WJEM, Tupelo, Miss., on their checks without success and wants to know if any others have logged them during these periods.

\* \* \*

If anyone has succeeded in sharpening the tuning of his set in the lower frequencies, Philip Mehler, 97 Champlin Ave., Liberty, N. Y., would like to hear from them. He, like many others, is greatly troubled by cross-talk and heterodyning on the channels from 550 to 610.

## Some NEWSY Notes

UNDER date of December 13, Dan Davis, Principal of the High School, Maud, Okla., writes: "KO CW, formerly at Chickasha, Okla., and later moved to Tulsa, has never broadcast since the move and at present are in a U. S. bonded warehouse

waiting some kind of legal settlement. Oklahoma, long noted as a land of outlaws, seems to have an outlaw of another nature in the form of a radio station M CO at Ada, Okla. They seem to be operating on about 15 watts power and have worked up quite a commercial business by advertising. They broadcast from noon until dark and sometimes at night, operating on about 690 kcs.

"I suppose that I could not be classed as a regular DXer as I never ask for verifications but I am always sure of the station I receive. I always wait until I hear the call letters and the name of the town before I log it. At the present time, my log says 444 different stations. My best catches are JOBK-1 at Osaka, Japan, JOHK at Sendai, KGU, 10-AT, 10-AB, HHK, LR5, WKAQ, and quite a number of 50- and 100-watters. Radio is surely freakish. Since the one morning that the two Japs came in over the loudspeaker with volume sufficient for my wife to hear them in the next room, I have never been able to hear a sound at the same place on the dial. My radio is a Majestic 20; my aerial is a single wire about 100 feet long, 10 feet above the one-story house in which I live. My ground is an old automobile spring buried in rock salt."

### Tuning Other Continents

"I am happy to say that I am now a regular listener to the T-P VKs and ZLs, being able to tune them in nearly every morning," Charles Meyer, Jr., 411 Blake St., St. Joseph, Mo., arises to remark. "But I wish somebody would give me a recipe on how to tune in the JOs, though, as I have heard only one, JOHK, and that very faint. My total log is now 442 with my best catches being CX26, LT1, 10-BQ and 2UE. Here are some answers to inquiries: To D. F. Mason: Your station in all probability was LR2 as I receive occasionally several of the S. A. stations in the background of the U. S. stations. To A. Belanger: I can't give you any info on Y V1BC but you can, per-

haps, log KGU when they sign off at 3:00 a. m. CST. To S. B. Leland: Your station is 2BL in Sydney, on 855, which I receive quite loud from 4:00 until 6:00 a. m. CST. Following are some DX tips from the IDA 'Globe Circler':

11:30 p. m. LR4, Buenos Aires, 990 kc. 20 kw.

1:15 a. m. Poste-Parisian, 914 kc. 60 kw.

5:00 p. m. Rabat, Morocco, 721 kc. 6 kw.

12:10 a. m. Beromunster, Switz., 653 kc. 60 kw.

2:00 a. m. Bordeaux, France, 986 kc. 13 kw.

Midnight, Frankfurt, Germany, 1157 kc. 17 kw.

8:30-10 p. m. LR5, Buenos Aires, 830 kc. 27 kw.

"The times are CST. Readers should keep trying for these at about these times and perhaps they, too, will be lucky enough to pick some of them up."

#### Tuning All Waves

"My set is a Scott all-wave now three years old but I would not trade it for any other set except another Scott," begins Rudolph Bossert, 294 Roycroft Drive, Rochester, N. Y. "Since last year I have learned how to find the short waves and now use my set all day long on short waves only. I receive all of the English stations like locals, also the Germans. I am listening to DJD as I write this (4:15 p. m.). The South Americans come in well now. I get VK3ME and VK2ME whenever I try for them when they are on. Have logged police phones from California to Texas and from Montreal to Florida, to say nothing about amateur and airports. Answering Russel Geiger, I also receive the station he mentions; it is CMCA, 834 kcs. Colon (suburb of Havana) as I heard it announced. (Has CMCA moved from 1230? Ed.) With WH AM right here in Rochester, I can tune in the stations on either side—KVOO and WAPI on 1140, WO WO, WWVA on 1160." Mr. Bossert has

an aerial in his attic in the form of a coil, about 8 by 14 feet with 200 feet of enamel stranded wire. He says this aerial is good on long or short waves and receives equally well from all directions. The trouble, of course, with most inside aerials is that they pick up all the noises of the house wiring. Evidently Mr. Bossert is not troubled.

#### When Pests Are Silent

In his "first letter to any publication," J. R. Mappin, P. O. Box 1264, Avalon, Calif., says: "Regarding KGFJ, our 24-hour station, I notice some kicks from readers that it hogs the 1200 channel and prevents them from tuning in other stations on that frequency. You might publish the fact that during the monthly frequency tests, I have found KGFJ off the air." This is a good tip and applies to many other channels besides 1200. Instead of tuning for the station that is being checked, tune for others on that frequency who



Each Saturday night on the Columbia net, George Jessel features a "phoned conversation" with his mother, that has become a popular radio bit. During one of his recent broadcasts, Georgie's mother, Mrs. Charlotte Jessel, dropped in "in person."

may not be required to be silent because of distance from the station checked.

"I recently purchased a Philco all-wave Model 16-B," goes on Mr. Mappin, "and have had very good results on both the b. c. and s. w. bands. On the s. w., my best are GSB-E-F, VK2-3ME, PRADO and YV1BC, RV15. On the b. c. I have received eight Japs and two Australians—2BL and one on 760—I only caught —KY and cannot identify it. The announcer said, 'it is 15 to 9' when it was 15 to 3 a. m. CST. This checks with Australian time. Thanks to the December RADEX, I picked up KJTY. While listening to their program over the CBS Saturday, December 2, I tuned to 6.650 megs. and was surprised to hear them with just as good quality and volume as on the rebroadcast."

#### KJTY Better Direct

William Mundt, 828 Broaway, Bethlehem, Pa., had a similar experience. "When the CBS program was on (Dec. 2) I decided to try to tune in KJTY direct. In less than one minute I had them; they were then a few hundred miles off the coast of N. Z. When the program started I listened on our b. c. receiver and found that the quality of the speech as it was rebroadcast by WHAS wasn't nearly as clear as what I was getting direct from the ship on s. w. After the special was over, I kept KJTY and heard some very interesting bits of news about the expedition. At times I could hear footsteps in their radio room and I heard someone operating a typewriter. They were on about 41 m. They signed off at 11:50 p. m. EST. I had held them for an hour and 55 minutes. I have a 12-tube Lafayette b. c. receiver and a Silver-Marshall s. w. set with four tubes constructed five years ago.

#### Gets Europe Regularly

"When I wrote you last March, I had a log of 350; it is now 672," reports Robert Hough, 26 Ellerton Ave.,

New Rochelle, N. Y. "I replaced the detector tube (27) with a 56 and made the set about 40 per cent. more sensitive and about 25 per cent louder. The week preceding Christmas was sure swell for Europe. I have been getting Poste-Parisian regularly every morning at 2:12. From the 16th to the 23rd, inclusive, I logged: Toulouse, Bordeaux, P-P and Fecamp in France. (Incidentally P-P is having special programs for British listeners in English from 6:00-6:30 p. m. Sundays. If you can separate them from CRCM, they have excellent volume.)

"I also logged Stuttgart, Frankfurt-am-Main and Breslau in Germany and I1BA and I1TO in Italy, SBH in Sweden and Hilversum, Holland—eleven in all. I find that Germany comes in best from 1 to 2 a. m., France from 2 to 3 and Italy from 2:30 to 3:30. With eleven Europeans to my credit, I seem to have no luck with the Aussies or ZLs and haven't yet been able to get either Hawaii or Alaska. One hint to DXers—tune very slowly. Fecamp comes in on a hairline and with American stations on both sides, it is easy to miss him." Robert does not tell us what set he has.

#### Recipe for T-P's

"In regard to the letter of Mr. Welsh of Reynoldsville, Pa., who complains that the DXers who report reception of oriental stations fail to assist others who have been unfortunate in failing to receive them," preambles Raymond C. Corbett, 619 12th St., Sacramento, Calif., "as far as I know from my own experience, there are no definite means of telling whether the Japs are coming in or not. If the Aussies are coming in well, it doesn't indicate that the Japs will also be heard. I have discovered no definite rules by the seasons. If all DXers will concentrate on 770 kcs., I am positive that, sooner or later, if they have any good location at all, they will be able to hear JOHK at Sendai, Japan. This station actually comes in as loud as

some of our Pacific Coast stations at times and their signals should penetrate the eastern part of the U. S. loud enough to be at least identified. JOCK on 830 and JOAK on 870 come in almost as well as JOHK. The best time for eastern listeners should be from 3:30 a. m. EST, on."

#### A Field on 1510

"In looking through RADEX, I notice you have KFQD in Anchorage, Alaska, on 600 kcs. but in the last few months I have received them on their old frequency of 1230," says D. Stevenson, 3893 38th Ave., W., Vancouver, B. C. The FRC changed KFQD some months ago. Can any other readers verify Mr. Stevenson? "Fans here in Vancouver have one radio feature that others do not have," concludes Mr. Stevenson. "That is many stations on 1510. Logging in the forests near here is extensive and a great many tugboats are employed to bring the logs to Vancouver. They are equipped with radio-phone transmitters using 50 or 100 watts power with a range of 50 miles. They are on the air at certain hours, carrying on conversations with their owners, coast stations and other tugs, about the weather, their positions, etc. It certainly makes good DXing although they cannot be verified. I have logged 20 tugs, 4 passenger ships and 3 coast stations out of 55 available."

#### A Tip on YV1BC

"That station Russell Geiger asks about on 835 is CMC, Havana." thinks R. B. Rolfe, 1741 Burnett, Waco, Texas. "I have picked them on three different nights and they are on 835 more nearly than 830. They always sign off with an announcement in English. The announcer talks Spanish very rapidly, so much so that, though I have been associated with Spanish-speaking people all my life, it is very difficult for me to understand him at times.

"I have at last gotten the much-received YV1BC, Caracas, Venez.,

and here is a tip for the boys in Texas who find they can't pick him up. XEAW does not come on the air until 7:30 p. m. now and, if they will tune very close around 960 kcs. between 6:00 and 7:30 p. m., they will likely hear YV1BC. I have had them three nights now with good speaker volume and a good, clear signal. My log stands at 256 with all the states but seven."

#### Radio DX in Haiti

From Port-au-Prince, Haiti, a fine list of stations received in that island Republic is submitted by R. A. Gravel who has concluded his diplomatic work with the treasury department of Haiti and returned to his home in Southbridge, Mass. Mr. Gravel reports that reception in Haiti is very difficult and while his pretty well covered the United States, Canada and Mexico, the stations were more or less limited to those above 10,000 watts. On the short waves, he received W3XAL in daytime and the volume of GSA would drown out Schenectady. Mr. Gravel adds: "I am sorry that my tour-of-duty in Haiti has been brought to an end at this particular time as I believe I could have registered many more stations," thus showing the true DX spirit.

#### T-P's in Tennessee

"It seems to me this section of the country should be ideal for DX tuning," observes a modest reader in Johnson City, Tenn. "In each issue of your magazine, I read letters from listeners who say they receive stations in Australia, Japan and New Zealand but none of them seems to be in my part of the country. I have a new 12-tube all-wave Silver-tone and can pick up any station in this country as well as many in Mexico and Canada, but never one of the Australian or Japanese. I have stayed up many a night hoping to get at least one but have had no luck. As for the short-wave end, I receive Germany and England practically every day and have received others in South America and the Bermudas. I

also picked up Byrd's ship when it was near the Canal Zone." Come on, Tennesseans; let's see what you can do across the Pacific.

#### Wants All the Police

"I was glad to find that 'Just Above the 1500 Channel' in December issue," comments Bill Garrison, 122 E. William St., Bath, N. Y. "However, I believe it could be made even more useful to those of us who get coppers on our b. c. sets, if you included the police broadcasting on 1712 kcs. (In this issue you will find the s. w. stations of the U. S. by frequencies beginning with 1534 and running clear up to the Canadian police on 17,330. How's that for service? Ed.) I am sure I caught FQN on 572 between 3:26 and 5:30. They were so weak that all I could get was the time of several announcements, unidentified marches and several xylophone selections. Did anyone hear them?"

#### They Do Verify

B. L. Ahman, Jr., 3313 Westwald Ave., Baltimore, thinks the station D. F. Mason heard near WABC was undoubtedly CMX who is supposed to be on 890 as he picked it up between WGBI and WABC or on WENR's channel. "I think some readers demand too much haste in a verification from their reports," adds Mr. Ahman. "I have verifications from every station except two that Mr. McPhole of West Philadelphia complains do not pay any attention to reports. From WTFI, a nice card, from WTOC a card, from WLBL a picture folder with veri., from KFDM a personal letter, from KFJB a nice card, from WBTM a printed reply with a personal postscript and from WIND a letter."

#### Boiled Briefs

"An old variocoupler makes a good tuning coil for the antenna and even on a superhet I think it pays," suggests Ivan D. Ide, Genoa, Ill. "I use a 12-tube super and with a tuning coil like that I can find stations that otherwise I would not be able to tune

in. Then, too, I log many stations during the day time that I cannot get at night. A station like WSAZ on 1190 would be impossible for me at night because WO AI would drown them out, but in the daytime they are possible. KSOO, too, I picked up between noon and one o'clock."

Don Martinez, 1469 26th Ave., San Francisco, has received so many stations that he finds it difficult now to add new ones. He is having a s. w. converter built and is looking forward to exploring what is to him virgin territory. "The Japs have been bad lately for the first time in years," he adds, "but I have a few more Aussies on my list. XGOA is on 650 as, believe it or not, I heard their call letters in English four times on 650, three times by a man and once by a woman." (Several other readers have reported XGOA on 660.)

"Before I go into details, please refer me to a good DX club," prefaces F. B. Pitts, Belle Fourche, S. Dak. "I have a Majestic 8-tube Model 90-B and a Model 15 5-tube midget Majestic. I hooked up both radios with no power on the big one and did my tuning on the 5-tube. In that way I had the same as a 13-tube set! Vancouver on 100 watts came in too strong." Mr. Pitts seems to try odd experiments. He disconnected his ground from the midget and used as an aerial a short piece of wire with the free end in a glass of water and got better results than with a regular aerial!

"I have finally identified the Cuban I heard on 635 kcs. as CMJH, Ciego de Avila," says R. M. Carter, Ann Arbor, Mich. "I have now heard them announce plainly several times." Who has anything definite from CMJH showing a change from their frequency of 1150? "I heard CFCH, North Bay, Ont., on 915 instead of 630," goes on Mr. Carter, "they were giving a DX program one morning recently. Wellington, 2YA, is being heard on their new frequency, 570, but not as well as they

*(Continued on page 49)*

# What's *the* MATTER with My Set?

Answered by *the* Technical Editor

**I** AM using a G. M. converter (remote control unit) with a Philco 43 receiver. At present this combination does not give good selection at 535 kcs. because of local stations on 540 kcs. The control used to work fine with a Kellogg receiver when set to 535 kcs. as recommended by the makers of the unit. Can I replace the condensers in the Philco to make a better selection at 535 kilocycles and reduce station interference?

The G. M. converter is a remote control unit suitable for use with any broadcast receiver. It is arranged to form a 535 kc. beat note with any receiver when a broadcast station is feeding this beat into the input of the set. To avoid trouble with 540 kcs., local stations, the converter padding or trimmer condenser system can be adjusted from 570 to 590 kcs., and the receiver tuned to this output. There are also any number of possibilities of beat notes being formed in the various circuits because of the two oscillators working together—one in the converter and one in the receiver.

The converter should be lined up for tracking, etc., just as any super-heterodyne receiver. It can then be applied directly to any receiving set without difficulty. We suggest you have the converter adjusted at the trimming condensers to increase its frequency range as mentioned above, and then set your Philco 43 on about 570-590 kcs. Changing the condensers of the Philco will not help.

## Changing Rectifier Tubes

*Can I use the 83 type rectifier tube in my Scott all-wave set instead of the type -80?*

We do not recommend this change. The 83 is a heavy duty rectifier tube and is intended to supply large amounts of d.c. power to receivers whose requirements are in excess of

the output rating of the -80 tube. The 83 takes one ampere more of current, which perhaps your set can ill afford to give up. The -80 now gives you all the d.c. power the set requires and there is nothing to be gained by using an 83 or an -82 tube.

## Power Line and Wave Trap

*A nearby power transmission line gives me much constant interference. How can I combat this and to whom should I write or talk? Will you tell me how to make and use a wave trap to prevent this and other interferences?*

Power line interference is a matter to be taken up with the power company. Complaint to the Radio Inspector in your district (Department of Commerce) is not likely to be effective in this case. Such interference usually is due to the electro-magnetic field that surrounds every high voltage a. c. power line. If a leaking insulator or transformer is at fault, then it is to the advantage of the company to catch the leaks.

Your aerial should be as far as possible from the line and will be less subject to interference if erected at right angles. Shielded lead-in wire, as explained in the October, 1933, issue of RADEX, will be valuable.

Wave traps can be of some little help when radio stations tend to interfere. Make such a trap by winding a coil on a tube 2½ inches in diameter with 60 turns of No. 26 wire. Connect it in series between the aerial and the receiver's antenna terminal. Then attach a .0005 capacity variable condenser across the two ends of the coil for tuning.

## Using Two-Volt Tubes

*Is it practicable to change my At-water-Kent, model 33, set, from -01A tubes to the 2-volt tubes?*

Two-volt tubes can be used in this

set merely by substituting -30s for the 01As, and a -31 for the -12A. But the negative C battery must be increased to -22.5 volts, and the B battery for the plate of the -31 must be 135 volts. The audio fixed resistor attached to the center of the rheostat and connecting one side of the filaments of the last two, or audio, tubes, must be removed and replaced with a length of wire.

A two-volt battery is used. If other voltage is connected to the two terminal wires—red and black—a variable resistance must be inserted in series with one of the wires so that exactly two volts is impressed on the filaments when the set is operating.

### Set Quits When Warmed Up

*My General Electric set, model S-42, refuses to work as soon as it becomes warmed up. After a few moments of loud operation it becomes weaker and then quits. No sound from the speaker at all. The tubes have been tested and are perfect and there are no visible faults in the wiring. What shall I do?*

While it is difficult to localize the exact cause of your trouble at long range it may be well to point out a few of the weaknesses in your set which tend to cause the trouble mentioned.

The trouble is characteristic of a defective high value resistor. Test or replace the 270,000 ohm resistor that connects between the positive B lead (22.5 volts) and the grid return of the first detector tube. Also, the 350,000 ohms resistor from the second detector grid return to the one just mentioned. Also look to the 350,000 ohms resistor from the second detector grid return to the negative B terminal. Test all high resistors in the second detector plate and first audio grid circuits. Other than these you must look at every resistor with suspicion. A carefully made meter test of the entire circuit will next be in order.

### Hum and Motor-Boating

*I have a Pilot a.c. Super-Wasp*

*short-wave receiver. I get a very bad hum. Also, when the set is turned on it has a motor boating or jumpy sound. Outside of this the set is perfect. I use a regular Pilot power pack unit.*

Usually this trouble can be traced to the detector plate circuit. A plate series resistor of 20,000 to 50,000 ohms shunted with a 0.5 to 2.0 mfd. fixed condenser will serve as a filter to eliminate the motor boating sounds. A radio-frequency choke in the detector plate circuit, properly bypassed, is often very helpful. Some of the Pilot models have these chokes.

The hum ordinarily will be reduced by lowering the grid leak valve, but as the sensitivity will also be reduced it is not well to carry this method too far. If the hum increases with the degree of regeneration it will be well to shield the lead-in wire and see that the shielding of the set is adequate and properly fitted. Loose shield cans which need refastening and cleaning at contact surfaces may cause hum and chattering noises or undue oscillation. See that the tubes are testing perfectly.

### Certain Short Waves Weak

*I have a Philco, model 43, which suddenly lost its pep on the 9 to 20 megacycles band. Until a few days ago I have been receiving European stations regularly on strength R9. Overnight, the set lost its ability to pick up these stations. A service man claimed to have found that the set was unbalanced. But still the receiver is weak on that particular band to voice, and most of the c.w. code signals are not quite as good as formerly, but still do not seem poor enough to account for the sudden absence of the voice stations. The set is perfectly normal on all the other bands. I cannot even hear the carrier wave of EAQ—a station which has been heard every night for the past ten months. Can you advise me what is wrong?*

Sometimes the oscillator tube will fail at the very high frequencies and

make one or more of the short-wave bands almost totally dead. It is therefore best to try several tubes until one is found which will oscillate strong enough to bring in the signals. An unbalanced condition of the circuits in this set under the circumstances outlined by you is hardly probable. One likely trouble is that of dirty contacts on the short wave band selector switch. The slightest resistance in one of these contacts will cause great trouble at high frequencies. This set is very sensitive to changes in antenna length or height and also to various ground connections. At very high frequencies the ground is usually unimportant, and in some cases even weakens reception. If any change was made in either the aerial or ground system this should be considered a possible source of trouble.

Of course, some changes in the condenser and balancing system could throw some part of the band out of adjustment in reference to the tuning dial but hardly prevent reception at all. Since you have had the set rebalanced this question can be ignored. Be sure that the first detector is a good tube, because any weakness here will first be noticeable on the highest frequencies.

### Band Spreading

*Can I use the "band spread" coil system on my National a.c. 45 short-wave receiver so as to make tuning easier?*

Band spreading consists of opening the tuning dial spaces so that the wave bands are farther apart so as to make tuning easier and not crowded with interfering stations. Coils of smaller range or tuning limits that do not cover wide wave bands, together with smaller variable condensers, open the crowding and widen the tuning spaces between stations on the dial. But, in order to cover the entire wave band from lower to higher limits, it is necessary to have several more coils than usually utilized.

National band-spread coils are made particularly for amateur reception on the 20, 40, 80 and 160 meter bands

which are so crowded with interfering operators. These coils have limits that range from just below to just above the wave lengths given above and will spread the amateurs over a large portion of the dial, some of them being as much as 50 points on the dial apart. These band spread coils are interchangeable with other plug-in coils in the National Thrill Box short wave receivers as well as some other types of short wave sets.

### Using 6.3-Volt Tubes

*Can either -37 or -44 type tubes be used in the RADEX short-wave converter in place of the 56 and 58 types? My Philco 91 receiver uses the 6.3-volt tubes instead of the 2.5-volt types.*

The converter was designed particularly for the 2.5-volt tubes—56s and 58s. You may use it with a Philco 91 or any set having 6.3-volt tubes merely by inserting 1-ohm resistors in series with each of the two filament wires of the converter leading from the wafer adapter that is slipped beneath one of the 6.3-volt tubes in your receiver.

### Power-Line Filter

*I am uncertain about winding the coils for the power line filtering device described in the April issue of RADEX. Is there a continuous wire laid in two layers or two separate layers with dead ends?*

Each tube has two layers wound on it with a single piece of wire, making up the full winding required. There will then be two ends to the length of wire. Start near the end of the tube and wind a layer of 100 turns evenly and smoothly, then return to the starting point after backwinding another 100 turns in the same direction—always away from you. One end of the coil connects to a plug prong of the plug used to attach to the 110-volt lighting socket; the other end connects to one hole of the outlet socket terminal used to receive the plug of the radio set cord. There are no dead or blank ends of the windings.

### Headphones on Zenith WH

*Can I attach headphones to my Zenith, model WH, receiver and still retain the volume and tone as it now is? Also, how about using new tubes in this set?*

See the February, 1933, issue of RADEX for information about using headphones. The original tone and volume will be retained in this way for weak signals. Since your receiver uses one power tube, a -47, you may attach the phones as shown in Figure 3, page 3, of the February issue of RADEX, following the arrangement indicated by the lower right-hand corner of the diagram.

If you do not care to break the speaker lead and insert a silencing switch, for all practicable purposes one of the headset adapters advertised in RADEX will give you all the volume you will need for headphone reception. It does not make use of the last stage, or the power tube.

### New Tubes and Noises

*Nearby street cars cause much interference in my Majestic, model 52, receiver, and I wish to know whether new type tubes will help.*

You can try a new 57 in place of the -24 first radio-frequency tube that is located first in the row of tubes, just in front of the -45 that is next to the -80. You will need a special adapter for this purpose. No other changes are recommended. But this will not decrease the street-car interference. That is picked up by the aerial, and a proper antenna location, shielding with a noise-reducing antenna, as described in the October, 1933, issue of RADEX, will be of value. Place your aerial itself as far from the street cars as may be possible; the length of lead-in wire when shielded will make little or no difference.

### Tubes Light; No Sound

*My Philco set, model 513, seems to be dead although the tubes all light up. The old tubes have been replaced with new ones that are good. Can you help me?*

We believe you have made an error in the model number; model 531 seems to be your receiver. First, we suspect the windings of the two audio-frequency transformers. The primary windings are likely to burn out, and they should be tested for conductivity with a battery and voltmeter. If no current passes, the transformer must be replaced. Test the speaker windings to see that no breaks in the wires are present. If the windings are o.k., we suggest that you take a pair of phones or a d.c. voltmeter and place one of the contacts on the chassis of the set and touch the other contact to each of the plate springs of the tube sockets with the set turned on and all the tubes, except the rectifier, removed. Each contact of the plates should give a reading or click in the phones. If a dead point is found then look for a defect in the resistor some place in the circuit leading to that particular plate contact. It is quite apparent that some plate circuit in the set is not getting the proper plate direct-current supply from the power system.

### Automatic Volume Control

*I wish to have automatic volume control installed in my RCA model 80 receiver. Can this be done; if so will you tell me what to do? This set has a number of -24 tubes and I would like to replace them with 57s or 58s, if practicable.*

The RCA 80 can be fitted with a.v.c. A 56 tube is necessary for this purpose, and it should be placed within the set at a convenient place close to the first intermediate-frequency tube. The grid return circuits of the first radio-frequency, the first intermediate-frequency, and the second intermediate-frequency tubes, are opened at the bottom of the coils connecting to the grid caps of those tubes, and fixed condensers of 0.1 mfd. capacity are inserted in series in the break in the circuit just made. Then three 250,000 ohms resistors are attached to these grid returns, at the bottom of the coils where the condensers were just at-

*(Continued on page 48)*

# The Short Wave Stations of North America

## Arranged by Frequencies

This list includes all the American transmitters except the United States Airways stations which were published in November. Readers are advised not to request verifications from any of the commercial stations listed below. The foreign S. W. Stations appeared in the January issue.

### United States and Possessions

Megs.	Meters				
1.534	195.45	KGHO, Des Moines, Iowa, State police	2.416	124.09	KGPB, Minneapolis, Minn., police
1.558	192.43	WPGC, S. Schenectady, N. Y., State police	2.422	123.79	WPDS, St. Paul, Minn.
1.570	191.08	KGPD, San Francisco, Calif., Marine Fire			KGPE, Kansas City, Mo., police
1.574	190.48	WEY, Boston, Mass., Marine Fire			KGPG, Vallejo, Calif.
		WKDT, Detroit, Mich., Marine Fire			KGZC, Topeka, Kans.
		WPEQ, Baton Rouge, La., police			KSW, Berkeley, Calif.
		WPEW, Northampton, Mass., police			WMJ, Buffalo, N. Y.
		KGPY, Shreveport, La., police			WPDW, Washington, D. C.
		WMP, Framingham, Mass., State police			WPEK, New Orleans, La.
		WPEL, W. Bridgewater, Mass., police	2.430	123.45	WPFU, Portland, Me.
		WPEV, Portable in Mass.			KGZD, San Diego, Cal. f., police
1.596	187.85	WRDS, E. Lansing, Mich., State police			KGZJ, Phoenix, Ariz.
1.658	180.83	WCF, New York, N. Y., police			WPDI, Columbus, Ohio
1.674	179.10	WRDU, Brooklyn, N. Y., police			WPDN, Dayton, Ohio
1.712	175.13	KSW, Berkeley, Calif., police			WPPD, Highland Park, Ill.
		..... Harrisburg, Pa., State police			WPFK, Hackensack, N. J.
		KGJX, Pasadena, Calif., police			WPGI, Portsmouth, Ohio
		KGPC, St. Louis, Mo.			..... Little Rock, Ark.
		KGPI, Beaumont, Texas.			..... Long Beach, Calif.
		KGPL, Los Angeles, Calif.	2.442	122.77	..... Minneapolis, Minn.
		KGPR, Fort Worth, Texas.			..... Santa Ana, Calif.
		KGZB, Houston, Texas			KGPP, Portland, Ore., police
		KGZI, Wichita Falls, Texas			KGPX, Denver, Colo.
		KGZL, Shreveport, La.			KGZH, Klamath Falls, Ore.
		EGZQ, Waco, Texas			KGZR, Salem, Ore.
		KVP, Dallas, Texas			WMDZ, Indianapolis, Ind.
		WKDU, Cincinnati, Ohio			WPDE, Louisville, Ky.
		WPDB, Chicago, Ill.			WPDI, Flint, Mich.
		WPDC, Chicago, Ill.			WPDH, Richmond, Ind.
		WPDD, Chicago, Ill.			WPDI, Lansing, Mich.
		WIDU, Pittsburgh, Pa.			WPEB, Grand Rapids, Mich.
		WPED, Arlington, Mass.			WPEB, Saginaw, Mich.
		WPEH, Somerville, Mass.			WPFK, Muskegon, Mich.
		WPEI, E. Providence, R. I.			WPFK, Reading, Pa.
		WPEJ, Brookline, Mass.			WPFK, Jacksonville, Fla.
		WPEK, Lexington, Ky.			WFFT, Lakeland, Fla.
		WPEL, Newton, Mass.			WFFX, Town of Palm Beach, Fla.
		WPEM, Hammond, Ind.			WPFZ, Miami, Fla.
		WPFN, Fairhaven, Mass.			WPGA, Bay City, Mich.
		..... Providence, R. I.	2.450	122.40	..... Binghamton, N. Y.
		..... San Bernardino, Calif.			KGPH, Oklahoma City, Okla., police
2.414	124.20	KGPA, Seattle, Wash., police			KGPO, Tulsa, Okla.
		KGPS, Bakersfield, Calif.			KGQV, Honolulu, Hawaii
		KGZA, Fresno, Calif.			KGQZ, Wichita, Kans.
		KGZM, El Paso, Texas			KGZF, Chanute, Kans.
		KGZN, Tacoma, Wash.			KGZP, Coffeyville, Kans.
		KGZO, Santa Barbara, Calif.			WPKK, Milwaukee, Wis.
		KGZV, Aberdeen, Wash.			WPEE, Brooklyn, N. Y.
		KGZX, Albuquerque, N. Mex.			WPEF, Bronx, N. Y.
		WCK, Detroit, Mich.	2.458	121.97	WPEG, New York, N. Y.
		WMO, Highland Park, Mich.			KGHS, Spokane, Wash., police
		WPDÄ, Tulare Calif.			KGZW, Lubbock, Texas
		WPDJ, Passaic, N. J.			WPDG, Youngstown, Ohio
		WPDN, Detroit, Mich.			WPDN, Auburn, N. Y.
		WPDY, Atlanta, Ga.			WPDO, Akron, Ohio
		WPFH, Baltimore, Md.			WPDV, Rochester, N. Y.
		WPEI, Columbus, Ga.			WPEA, Charlotte, N. C.
		WPFM, Birmingham, Ala.			WPEA, Syracuse, N. Y.
		WPEP, Clarksburg, W. Va.			WPEB, Asheville, N. C.
		WPFY, Yonkers, N. Y.			WPEB, Rockford, Ill.
		WPGB, Port Huron, Mich.	2.470	121.40	WRBH, Cleveland, Ohio
		WPGJ, Utica, N. Y.			KGOZ, Cedar Rapids, Iowa, police
		WPGS, Mineola, N. Y.			KGPD, San Francisco, Calif.
		WRDR, Grosse Pointe, Mich.			KGPI, Omaha, Neb.
		..... La Grange, Ga.			KGPK, Sioux City, Iowa
		..... Santa Fe, N. Mex.			KGPM, San Jose, Calif.

(Continued on page 94)

# REALLOCATION *in* Europe

Grand Shift on January 15

**T**HE "Plan de Lucerne" which resulted from the conference in that city in May of the present year, went into effect on January 15, 1934. This Plan was signed by 27 European states. Seven countries—Finland, Greece, Holland, Hungary, Lithuania, Poland and Sweden—did not sign the Convention at the time but it is generally felt that they too will be guided by the new arrangement.

The Plan covers 232 stations which are allotted 130 channels of which 55 are exclusive while the remainder are shared. Roughly, those stations allotted frequencies between 1500 and 1250 kcs. are given a maximum power of 30 kw. Between 1250 and 1100, the maximum is 60 kw. Between 1100 and 550, 100 kw. For frequencies below 300 kcs the maximum is 150 kw. with the exception of Moscow-1 which has 500 kw.

Only a few of the more important stations with their new frequencies can be given here. The complete list of stations with their revised wavelength will appear in the January-February-March issue of the DX Log of the World. While many of the stations will not at first be found with the higher power to which they are entitled, many countries, notably Germany and France, are preparing to transmit on these higher powers.

The interesting notes regarding the stations given here, were sent us by an English reader, W. H. Turner, 144 Parrswood Road, N., Withington, Manchester. Times mentioned are G. M. T.

## Long Wave Stations

**Huizen and Hilversum, 223 and 995**

The power of Hilversum is raised to 20 k.w. from 5-40 p.m., and that of Huizen to 50 k.w. from 3-40 p.m. daily, the latter transmission being from the new Government station at Kootwyk. These two stations change wavelengths every three months, i. e., in January, April, July and October.

**Radio Paris, 75 k.w., 167**

A favorite French station for British listeners. In January it becomes the French long-wave National station, with a power of 100 kilowatts. Provision is being made for a further increase to 150 k.w. if required.

**Berlin (Deutschlandsender), 60 k. w., 191**

This German long-wave station (formerly Zeezen) has now its own programmes, and also relays concerts and other features from other cities. Its power is to be raised to 150 kilowatts in January.

**Eiffel Tower (Paris), 13 k.w.**

One of the first European broadcasters, this station will close down in January, being afterwards used for Government and commercial transmissions.

**Warsaw (Poland), 120 k.w., 230**

First European station to use over 100 k.w. Has high-class concerts and frequent transmissions of Chopin pianoforte music. It is announced as "Varshava."

**Motala (Sweden), 30 k.w., 216**

Relays the Stockholm programmes and takes concerts occasionally from Goteborg and Horby.

**Radio Luxembourg, 200 k.w., 1249**

May not accept low wavelength allotted under Lucerne plan. Broadcasts sponsored programmes, varied by gramophone and other music.

**Kalundborg (Denmark), 30 k.w., 238**

Recently raised from 7 k.w., and is now a favourite day and night station in this country. Relays Copenhagen.

**Monte Ceneri (Switzerland), 15 k.w., 126.8**

A new Swiss station designed to serve the Italian-speaking population of the country. Announces frequently in Italian, and relays Italian opera.

**Oslo (Norway), 60 k.w., 253**

Gives an orchestral concert every night, and also features instrumental music.

## BROADCAST BAND

**Budapest (Hungary) 18.5 k.w., 546**

Is just within tuning range of majority of receivers. Announces "Hallo, Hier Radio Budapest!" frequently, and is easily recognized by its unique instrumental music.

**Munich (Germany), 60 k.w., 740**

This main German station may shortly increase its power to 100 k.w. Provides many of its own programmes, and is relayed by Augsburg and Nurnberg.

**Vienna (Austria), 100 k.w., 592**

Has recently increased its power. Broadcasts many popular orchestral programmes, including the waltzes of Strauss and other Viennese composers.

**Brussels No. 1 (Belgium), 15 k.w., 620**

Provides continuous orchestral music from eight to ten almost every evening. Announce-

ments are made only in French, its sister station being reserved for Flemish listeners.

**Prague (Czecho-Slovakia), 120 k.w., 638**

Broadcasts first-class orchestral, military band, string and pianoforte music, and frequently relays grand opera.

**Lyons (France), 1½ k.w., 648**

Though of very small power is often well received in this country. Plans to go up to 60 k.w. in near future.

**Lanzenburg (Germany) 60 k.w., 658**

Will shortly raise its power to 100 k.w. Will be less than 7 metres from North Regional in January, but fortunately has an exclusive wavelength.

**Beromunster (Switzerland), 60 k.w., 556**

"On the air" at 5-50 a.m. daily with music for gymnastic exercises. Relays the best of the Berne, Basle, and Zurich programmes.

**Rome (Italy), 50 k.w., 713**

Famous for opera and orchestral broadcasts, which are relayed by the 25.4 metres transmitter and Milan and Naples.

**Stockholm (Sweden), 55 k.w., 704**

Often broadcasts old English dance music, and gives prominence to popular orchestral, string, and instrumental music.

**Madrid (Spain), 2 k.w.**

Often transmits until well into the morning hours and, in spite of its low rating and great distance, comes over at good volume when other stations have closed down.

**Funkstunde (Berlin), 1.5 k.w., 841**

German National station, replacing Witzleben. Will transmit on 60 k.w. when changing wavelength.

**Athlone (Irish Free State) 60 k.w., 565**

An established favourite with many listeners, and one of the strongest outside stations received in the north of England. Will be outside the wavelength range of many receivers in January, but can be brought in by a small condenser across aerial and earth.

**Katowice (Poland), 16 k.w., 758**

Has a large following owing to their Radio Club including so many British listeners. Many of these are replied to over the ether.

**Sottens (Switzerland), 25 k.w., 677**

Takes its programmes from Lausanne and Geneva, and gives occasional relays from Eiffel Tower and Strasbourg.

**Leipzig (Germany), 120 k.w., 785**

One of Germany's most powerful stations, famous for orchestral concerts by the Leipzig Symphony and Dresden Orchestras, and also its frequent transmission of old and new dances.

**Toulouse (France), 8 k.w., 776**

Popular station with British listeners on account of its short and bright programmes, many of which only last fifteen minutes, and rarely exceeding half an hour. Will shortly raise its power to 60 k.w.

**Hamburg (Germany), 1.5 k.w., 776**

One of the lowest-powered German stations regularly received in this country. Will shortly increase its power to 100 k.w. under the German reorganization scheme.

**Stuttgart (Germany), 60 k.w., 576**

Another station which will shortly increase its power to 100 k.w. On its new wavelength it should be one of the best German stations received in this country.

**Barcelona EAJ1 (Spain), 8 k. w.**

Gives very little original orchestral music, mostly using gramophone records. Occasional broadcasts plays, and gives tango dance music after midnight.

**Strasbourg (France), 11.5 k.w., 859**

Gives an orchestral concert at 5 p. m. daily, and probably broadcasts more orchestral, trio and string quartet music than any other European station.

**Brno (Czecho-Slovakia), 35 k.w., 922**

Relays the best of the Prague programme items. Announcements are made in Czech, German, French, and English.

**Brussels No. 2 (Belgium), 15 k.w., 932**

Broadcasts excellent orchestral music. A two-hour concert at noon, and another of the same length figure in the programmes almost every day.

**Milan (Italy), 50 k.w., 814**

A powerful Italian relay station taking the majority of its programmes from Turin. Relayed also by Genoa, Trieste, and Florence.

**Post-Parisian, 60 k.w., 959**

Is "on the air" at 7-10 a. m., and gives bright and varied programmes for sixteen hours daily. Is one of the few foreigners on the broadcast band receivable at good strength in daylight.

**Breslau (Germany), 60 k.w., 950**

Comes on the air at 5 a. m., and continues with music and talks until nearly midnight. The talks are often of a scientific nature, dealing with astrology, astronomy, everyday science, and a weekly talk on wireless.

**Genoa (Italy), 10 k.w., 986**

A medium-power station, working in conjunction with Milan, Turin, Trieste, and Florence.

**Bordeaux-Lafayette, 13 k.w., 1077**

One of the French Government stations, relaying programmes from Eiffel Tower and Grenoble, Lyons and Strasbourg.

**Hilversum and Huizen, 8.5 k.w., 995-223**

The power of Hilversum is increased to 20 k.w. from 5-40 p. m., and that of Huizen to 50 k.w. from 3-40 p. m. daily. These stations change wave-lengths in January, April, July and October.

**Lisbon (Portugal), 20 k.w., 629**

A new station just beginning its tests. Can be easily located between Heilsberg and Hilversum. Call sign, Radio Lisbon.

**Heilsberg (Germany), 60 k.w., 1031**

Transmissions from 5-15 a. m., and features concerts by the Konisberg Opera House and Dresden Symphony Orchestras.

**Turin (Italy), 7 k.w., 1140**

Small power but important Italian station. Gives relays of opera, which are taken by Milan, Genoa, Trieste, and Florence.

**Muravska-Ostrava (Cz.), 11 k.w., 1158**

Comes on the air at 5-15 a. m. Gives its own afternoon concerts, afterwards relaying the Prague programme.

*(Continued on page 46)*

## Condensed CREAM *of the DX Reports*

FROM a Californian, Jack Watrous, 113 North Orange St., Los Angeles: "I am using a Zenith all-wave, 9-tube and have received 199 stations on the b. c. b. Some of my best are 2YA, WCLO, WMBH, KFPL, and numerous Japs. I have just erected a new aerial about 70 feet long and am using the ground described in the October RADEX and find that it helps in pulling in the 100-watters. For the benefit of those who want Oregon, KALE is on from midnight to one each Sunday morning with an organ program. The RADEX Time Converter is marvelous; how I did without it is more than I can see?" Jack wants to join a Coast DX Club.

"Last Columbus Day, I purchased my first RADEX and that evening I started to do a bit of DXing," reports Walter C. Birch, 189 Essex Street, Lynn, Mass. "To date I have logged 361 stations. I have every station of 5000 watts and over on the continent except WOI and WCBD. I have every state but Wyoming and every province in Canada. I use an RCA-Victor 10-tube biacoustic super, Model R-90 and I would like to hear from others using a similar set. To me it is unbeatable for tone quality and as to selectivity, I am able to bring in a station on every channel at 6:45 p. m."

"Here is our record on a Midwest 16-tube all-wave set," submits R. W. Putnam, 1857 Nelson Ave., Grand Rapids, Mich. "Amateurs whose call, city and state were distinctly heard, 275; stations on the b. c. band, including 44 states, Cuba, Mexico and Canada, 267; weather stations 13; short wave, foreign and U. S., 43; police 66; a total of 664. This was all in six weeks." Among his short wave catches, Mr. Putnam lists: PRADO, JT8, JW9, HJ5ABF, HJ5ABB, LSN-X, PSF, YV1BC, YVR, XETE, VK3ME, VE9GW, EAQ, GSA-B-D, DJA-D.

"My log has grown to 475 thanks to the DX calendar," says Lloyd Harrison, 130, S. Hague Ave., Columbus, Ohio. "I have verified only 50 as I have just started to verify in earnest but even now verify only what I consider extra good catches, 250 watts or under and over 1000 miles. Have every state but Wyoming and all channels. I think the FRC checks are a snap especially for beginners building a log. I would like to get in touch with someone who has the same set as mine, a McMillan 9-tube super-het."

"Have you any information on the Cuban station on 1030 kcs.?" asks Earl R. Roberts, 42 Burt Ave., Newark, Ohio. "I heard it Monday night (Dec. 18) and the call in Spanish sounded like CMVT or CMBT and the city almost like Havana but more like LaHavana. It came in with good volume. CKCR on 1510 comes in very well. LR4 seems to be on about 992 instead of 990. HIX was received about 598 instead of 579. It was quite weak. XEAE on 980 has been coming in fine lately until three a. m. or later."

"What is the address of Poste-Parisian," asks Robert Hough, 26 Ellenton Ave., New Rochelle, N. Y. "At present I have 624 stations, my latest being KIEM, KGIW, KIDW, KFPL, KGFI and KFXJ which I tried for for a year. Other good catches were XEFV, CMQ, CMCD, YV1BC and YV3BC. Poste-Parisian came in Nov. 24, 25 and 27. They seem to be on every morning except Sunday. They come on at 2:12 a. m. on the dot with good volume. At 2:30 they start to fade and by 2:58 they are gone."

"I once noted in RADEX a fellow with a log of over 200 and no T-Ps," says Ernest Ball, 39 Delaware Ave., Ottawa, Ont. "My record is worse than that. I have over 550 logged with no T-Ps, not even KGU. However, I have P-P, VONF, LR5, HJN, YV1BC, HIX, WKAQ and CMCW. In the low power I have two 10-watters, VE9EK and WHBC, two 15-

watters, 10-AK and 10-BQ, two 25s, WIBG and 10-BP. Have all the states and all the provinces but one each."

"My log of stations heard has increased to 715 with 552 verified and letters out to LR5, CX26, KGU, KGBU and Poste-Parisian," writes Lloyd S. Hahn, P. R. R. Y. M. C. A., New York City. "I heeded the admonition to clean up my set contained in the article in the November RADEX. When I removed the shield around the condensers I found a mouse so dead that it crumbled. It had evidently gotten in there when the set stood in the salesroom."

Writes Donald W. Shields, Roseville, Ohio, "I have 318 stations on the regular b. c. band with every state in the union except Delaware. My best are HJN, LR5, KVOA, KMPC, KTM, KFSG, KFVD, KGEK, KPOF, KGCX, KOH, KEX, KJR, KOMO and KGA. On the s. w. I have VK2-3ME, GSD-B-F, GCB, GBS, DENNE, EAQ, VE9GW, HJB, CGA, ZFB, LSN and LSX. I have a Philco 16-B 11-tube, all-wave. Would like to hear from other owners of that model."

"I have been DXing but a few months but my scrapbook of verifications is growing," writes George Butts, 2 Beach Drive, Medina, N. Y. "I have received every station of 5000 watts and over in the U. S., except KOB. I have veries from HJN and VE9EK. My log stands at 342. My best catch in the U. S. is that 25-watter in Los Angeles, KFVD. I use a Sonora, Model A31. Would like to hear from others using this set."

"I have been DXing since 1931 and now have logged 443 stations," summarizes John L. Taggart, Jr., 19 Robie Street, Bath, N. Y. "My best are YV1BC, LR5, HJN, KGIR, WKAQ, FQN, KALE, KVOA, KGHL and several other 100-watters. I have a Majestic, Model 92, and it sure has a good wallop for an old-timer." John is a member of the National Radio Club and would like to hear

from DXers anywhere.

"After six months, my log shows 226 stations," says Grant Ricksecker, 1318 West 111th St., Cleveland. "I lack six states; Kentucky is the only complete state but have had four out of five in West Virginia and 17 of 20 in Ohio. I have 10 in California, 3 in Oregon and 3 in Washington, making 16 on the west coast. In Chicago I have 12 out of 14 and in New York City 11 out of 15."

"I have a 5-tube, 75 to 550 meter Simplex Model P," contributes Stanley Mattheson, R. 1, Box 14, Stafford Springs, Conn. "I have received 176 stations between 540 and 1500 kcs. About the first night I had the set, I tuned in KFI. On the s. w. I have 30 police stations. I have listened to airport stations hours on end but have never heard one of them announce his call letters."

"The only book worth having on the radio" is the compliment of Marvin D. Dixon, Ora Mill R. 74, Shelby, N. C., who now has around 600 stations on his log. He is proud of 10-AK, BI, BQ and BP, CKIC, KFPM, HJN, CX18, CX26, LR5, 2CO, 2B1, 2YA and KGU. His set is a Philco 11-tube Model 15-X and his aerial 350 feet long and 40 feet high. He would like to correspond with DXers.

"Have logged about 225 stations on the b. c. band and about 30 on s. w.," adds up C. Ray Trask, 3475 West 22nd Ave., Vancouver, B. C. "I hear EAQ quite regularly. My best catches are 2YA, VK2ME, GSD-E, DJD, RV15, YV3BC, VE9HX and six Japs. I use an RCA Radiola 60 with a Spartan s. w. converter. Glad to hear from any DXers and will answer all letters."

"Look at this record," proclaims Harold J. Curran, Box 75, Wappinger's Falls, N. Y. "A grand total of 616 stations, 212 of them being 100-watt or less. Every station in the Union verified. Among them HIX, RUS, LR5, FQN and my best of all, 2YA. All these stations were heard on an Atwater Kent Model 55.

Would like to hear from others using this model."

"In one month, with my 8-tube Radiola 60 superheterodyne, I have logged 150 stations," reports "A New DXer," F. Britton Buser, Cambridge City, Ind. "I find I have been missing a lot in not verifying my catches. I intend to start right away. Among my best are WENC, WGNY, KMO, WSPA, KFVD, KGHL, WNBO, KGFG and KARK."

"I received an Emerson 4-tube radio one year ago today," recalls S. W. Sullivan, 114 So. Kenilworth, Oak Park, Ill. "In that time I have logged 419 stations on the b. c. band—20 Californians, 15 Canadians, 6 Mexicans and two Cubans. I consider CMCW, KXA, and 10-BP my best. Would like to hear from other owners of Emersons."

"I have increased my log to 287 stations," says Foster Allen, 115 N. College St., Martinsburg, W. Va. "I have just started sending for veries in the last two weeks. Fourteen of my stations are on the Pacific Coast. I have trouble receiving any Cubans. I have a Model 801 Stewart-Warner receiver."

"I have received about 20 Japanese stations already this winter although radio reception is said to be poor in Victoria because of the large amount of cloudiness and rain we have here," reports W. Pollard, 60 San Juan Ave., Victoria, B. C. "I have also received KZRM, 2CO, 3AR, 3LO, 5CK, 2FC, 2BI, 2GB, 2UE, 4RK, 4BC and 4QG."

Donald W. Reynolds, 34 Chambers St., Newburgh, N. Y., submits this report: "My log is now 497. This morning, Dec. 28, four T-Ps rolled in—2YA, 5CL, 4GQ and JOIK. I have all the states but Wyoming and at least one station on every continent except Africa. I heard LR5 with good volume."

"My DX record is nothing to brag about," thinks Anthony Misunas, 319 Grand Ave., Rockford, Ill. "Last year and this, I have compiled a list

of 410 stations with my best: CMCY, KGU, 10-AB and BQ, CKOV, XEFV, KGBU, CMDE and XEJ. Am still hoping for T-Ps. I have a Stewart-Warner, 9-tube set."

Writes Adam Gretchen, 1593 East 45th St., Cleveland: "My log totals 576 including 20 police. Have any readers received T-Ps on Atwater Kent receivers? My best catch was Poste-Parisian which I heard on three successive mornings last winter but have not heard them since."

From Manchester, England, W. H. Turner writes: "I am listening to your stations nightly. I have had WEAJ, WCAU, WTAM, WTIC, WPG, WBZ, WABC, WIOD, KMOX, WRVA and my best, I think was today, Dec. 15, WOAI San Antonio. My best program, I think, is Friday night with Pond's Drama."

"My set is a Philco bought about six weeks ago," says Wilbur Cadmus, R. D. 1, Millville, N. J. "I already have 250 stations including LR5 in Buenos Aires."

"I have a 5-tube Cosmopolitan and would like to hear from others with the same set." Guilford W. Hamilton, 112 Orchard Ave., Punxsutawney, Pa.

"Since last April I have logged 323 stations. My best: CMQ, XEN, KGKO, KFJB, KMLB and WIBG." H. Searles, 349 Broadway, Rochester, N. Y.

"Here are five I value a good deal," submits Harry M. Gordon, 317 East 10th St., Erie, Pa. "They are 5CK, Crystal Brook, Australia, KGW, Honolulu, 2CO, Corowa, Australia, 4QG, Brisbane, Australia, and 2BL, Sydney. I had 4QG five straight mornings before I found out who they were, so when I wrote to them I gave the five days' log. I think that is as nice a catch as a person can get."

"I, too, hear the outlaw, WWSP," remarks Bernard E. Lorch, 8360 Ohio Ave., Glassport, Pa. "They seem to have no definite time on the air but when they announce it is 'WWSP, South Hills, Pittsburgh.' I get them at 820 kcs."



402.00	745.82	.....	B.	Ostersund, Sweden
406.00	738.47	KOG	.....	Honolulu, Hawaii
414.00	724.20	WAEF	A.	Newark, N. J.
		WCO	A.	Lansing, Ill.
		WKDL	A.	Miami, Fla.
416.60	719.70	.....	Exp.	Moscow, USSR.
420.00	713.85	WAEF	A.	Newark, N. J.
434.70	689.71	.....	B.	Oulu, Uleaborg, Finland
435.00	689.24	RW35	B.	Astrakhan, USSR.
438.00	684.52	WPY	HP	New York, N. Y.
442.00	678.32	KHL	IP	Wailuku, Hawaii
		KHM	IP	Lihue, Hawaii
		KHN	IP	Lanii, Hawaii
		KHO	IP	Kaunakaki, Hawaii
		KLN	IP	Hilo, Hawaii
500.00	599.64	WKDL	A.	Miami, Fla.
		WPY	HP	New York, N. Y.
511.00	586.73	RW30	B.	Dnepropetrovsk, USSR.
515.00	582.17	.....	B.	Tartu, Estonia
521.00	575.47	RA34	B.	Koursk, USSR.
522.00	574.36	.....	B.	Hamar, Norway
		.....	B.	Ljubljana, Yugoslavia
526.00	570.00	.....	B.	Grenoble (PTT), France
527.00	568.91	.....	B.	Freiburg-im-Breis- gau, Germany
530.00	565.69	.....	B.	Wilno, Poland
536.00	559.36	.....	B.	Augsburg, Germany
		.....	B.	Kaiserlautern, Germany
		.....	B.	Tampere, Finland

## The Verification PROBLEM

**O**BVIOUSLY if reports coming in to the radio stations from listeners, are to do the stations any good they should contain some information of value to the station. While some stations might desire different information from others, it would seem that it would be of mutual benefit to the broadcasters and to the listeners-in if some uniform form of report were devised and published in your magazine either regularly or on frequent occasions. Then novices in DX work might get started without delay and with the greatest efficiency. I have just received a new Atwater Kent with short wave stage and was so interested in the possibilities of DX after reading your magazine that I have decided to see what I can do in that line during the coming winter. You folks who publish the magazine have been working so long that you are away down in its intricacies by this time but you should not lose sight of the fact that there

are beginners starting in after you all the time and you could materially assist them." This pertinent letter comes from Chester E. Ross, Hollister, California.

The points Mr. Ross makes seem to be very well taken. Surely a uniform report of reception would make it easier for the stations and save them from wading through long and rambling letters. Secondly, if stations are to continue to verify they must receive as well as give and listeners must learn how to give intelligible and helpful reports of the quality of reception. It seems to us, therefore, that it might be better—instead of publishing a model form of report—for us to provide a supply of printed forms which our readers could secure at a reasonable price. On these forms we might print a personal word from this magazine to the broadcasters urging them to make prompt verification if justified. We might point out the fact that many of the reports made are in competition and hence a matter of the utmost importance to the listener.

### Defends Stations

George W. Haskell, Box 58, South Paris, Maine, points out: "We often hear complaints in regard to radio stations not answering requests for verification. Considering the amount of correspondence which reaches a station, it doesn't surprise me that some letters get laid by and remain unanswered for some time. In praise of the stations, I wish to say that I have sent for verifications to 235 stations in a little over one year and have received replies from 233. The other two were written but a few days ago and it is hardly time for a reply. I think a respectfully worded letter, with a little patience if it is not answered at once, with a second letter after a reasonable time just as respectfully worded, will bring results every time provided due care has been exercised to give a complete report of the program heard. This has been my experience and I

would recommend this course to others.”

Another point is stressed by Francis Eugene Andrew, 104 North 19th Street, Wheeling, W. Va. “The 24-hour mailing rule enforced by many stations should be impressed upon the minds of new (and some old) Radexers. Failure to obey this rule is one of the chief reasons why many reports reach ‘ye old ash-can.’ The readability code, etc., should be given on every message sent to a station. Local conditions, interference and any other information one might think the station engineer would appreciate, should be included in reports. If this is done, I feel certain that he will look upon DX letters as more of a necessity than as a bother. Merely giving selections or announcements does not help a station nearly so much as stating under what conditions those selections or announcements were heard.”

#### Too Much Dedication?

Still another phase of the problem is discussed by Abe Cohen, of the Library Department of the Seattle Post-Intelligencer. “I was on the Courtesy Programs Committee of the Transcontinental DX Club and it has puzzled me from time to time how the stations were able to comply with these incessant requests from radio clubs and still maintain as decent a front to DXers as they do. The selfishness of these DXers (and I have been just as bad as anyone else). ‘We just *have* to have a program dedicated to *our* club.’ No matter that the club has only twelve members—two of whom will stay up to listen to the broadcast—we must have the program dedicated to us. Personally I think all soliciting of stations by clubs should stop. The DX programs ought to be available to all and not just to *our* members. The suggestion may be a trifle radical but I feel that it is the only way DXing can be saved for the future.”

The injustice of blacklisting or even condemning stations for a failure to

verify based upon individual experiences, is pointed out by W. T. R. Morris, Jr., 3219 Garland Ave., Richmond, Va. “In your December issue Harry McPoyle of West Philadelphia, complained about WTFI of Athens, Ga., saying that it was the worst offender in the matter of failure to verify. On the other hand, I received one of my very best verifications from this station. They sent me not only a verification card and a souvenir card but wrote me a personal letter in which they said: ‘We are always extremely glad to hear from our friends regardless of where they are located but this letter of yours meant quite a great deal to us, especially the information you gave as to the clarity and quality of our station. Keep in touch with us; we will always be glad to hear from you; it takes just such letters as yours to help us make a success of our station.’ I am afraid Mr. McPoyle did not give them the valuable information which *all* stations desire. Clarity, Quality, Fading and Volume are the main things to check on any station that the listener expects to receive a verification from.”

Station WBTM, too, objects to being included in Mr. McPoyle’s complaint. A good letter from W. P. Heffernan, Program Director of WBTM, states: “It is not true that this station ignores DX mail. During the first few months of this station’s operation, more than three and one-half years ago, much fan mail was not answered, due to the press of business and the fact that the station was understaffed. However, when the undersigned took this desk over, he personally saw to it that all back mail, which was carefully filed, by the way, was answered.

“This station has never sold ekko stamps—has never asked for dimes and has certainly never ‘collected dimes.’

“May I state here that station WBTM is glad to hear from its listeners always, particularly on DX broadcasts, of which we have very

few and on our regular frequency check programs. I am sure that I echo the sentiments of the broadcasting industry, when I call attention of your readers to the fact that postage, particularly to a small station, is a very heavy burden and it is greatly appreciated whenever a return stamp or self addressed stamped envelope is included in the report of reception.

"It might be well to state here, that many so-called reports of reception do not give sufficient information to justify the station's verifying same. And a great many letters come in so many weeks behind the date of broadcast that we cannot help thinking, at least, that the writer obtained his 'dope' from some friend with whom he is swapping stations for their logs. If this is the case, the practice should be discouraged."

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## Radio vs Fishing

**R**ADIO never fails to surprise and delight me. When younger, I fished a great deal. DXing supplies thrills fully equal to the older sport. When a distant station or a low-powered one first begins to come in, the sensation is as pleasurable as the first tug at the line. Then, manipulating the controls, power, volume, etc., until the call letters come in clearly and distinctly, is equal to the landing process and requires just as much skill and often more patience.

Before I new about DX, I often sat up nights and cruised about the radio dial. I carefully logged the stations heard until I had 207. With a new receiver, I raised my log to 300 but this seemed to be about the limit at the time. Then I heard of the DX clubs and decided to devote still more effort. I purchased a Philco, 111, 11-tubes, and settled down to DXing in earnest. That was more than two years ago. My log now stands at 709. Everyone of these stations has been heard on the loudspeaker and on the regular b. c. band. I have not veri-

fied but I have never logged a station until I had heard the call letters, the location and often the frequency distinctly. When all this checks with the latest copy of RADEX, I need no verification. Of course I heard many stations that I was not able to identify. The only duplications are those stations which materially changed their location, their frequency or decreased their power.

*Chas. C. Mann, Science Teacher,  
David Worth Dennis Junior High  
School, Richmond, Ind.*

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## EUROPEAN Reallocation

*(Continued from page 39)*

**Frankfurt (Germany), 17 k.w., 1195**

Supplies many concerts and programme items to the more powerful German stations. The Frankfurt Symphony Orchestra is one of the best in Europe.

**Trieste (Italy), 10 k.w., 1222**

Received at tremendous strength at times. Transmits its own programmes from early morning until early evening, afterwards relaying those of Turin and Milan.

**Fecamp (France), 10 k.w., 1456-1393**

A French station with a great following in this country. Special daily transmissions from 11 p. m. to 3 a. m. with announcements in English and French.

Note: Slight errors may be found as the frequencies given above were converted from meters. For the correct frequencies see the new issue of the DK Log of the World.

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## ON KNOWING HOW

**I**HAD a very interesting experience this morning," narrates Richard M. Carter, 820 McKinley Ave., Ann Arbor, Mich. "A friend of mine purchased an Airline receiver with Stewart-Warner converter a few weeks ago. He hadn't been able to pull in VK2ME or 3ME or any foreigners on the regular b. c. band. Knowing of my success, he asked me to come over and give his dials a few twirls. I made no promises especially since it was raining here and seemed

like a poor morning for reception. I arrived at his house at 1:30 this morning and immediately proceeded to pull in VK2ME—not loud but perfectly clear. I then pulled in two 100-watters in California—KDB and KERN, and one in Rhode Island, WPRO, all with plenty of volume.

“A few minutes before two I turned to 830 and waited for KOA to sign off. Before the announcer finished speaking, we heard a voice in the background say ‘Buenos Aires.’ And then for an hour we listened to LR5. It came in QSA 4 to 5, R6 to 7. Not bad. I then picked up CJCA and CHGS and several faint signals which I insisted were 2CO, 5CK, KGU, 4QG, and 2BL. My friend didn’t take much stock in my theories about these and was on his way to bed when I called him back to hear 2BL come in with room-filling volume. And they announced plainly right at that time. I wouldn’t be that lucky again in a hundred years.”

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## Last-Minute NOTES

*(Continued from page 14)*

way between Moose Jaw and Regina and scrapped our old 500-watt CJRM machine. VE9JR is still operating on 25.6 meters but only in the evenings. VE9CL on 48.58 is not in operation at present but we expect to have it going simultaneously with VE9JR in the near future. We shall shortly open a new 100-watt transmitter in Winnipeg and this will operate on a frequency of 1390 kcs.”

### B. C. Band Widened

Widening of the broadcast band to embrace three new channels in the 1500-1600 kc. band was announced by the Radio Commission Dec. 19, with an indication that a dozen stations of not more than 1000 watts will be licensed for operation on these waves under rigid limitations but with full authority to broadcast commercial

programs. The channels designated are 1530, 1550 and 1570 kc., each 20 kc. wide instead of ten. This is about the only tangible result coming out of the late-lamented Mexico City conference. Further details regarding this new move will appear in later issues of this magazine.

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## A DX Calendar for 1500 Channel

“Am sending you a copy of the 1500 kc. schedule for the month of February that we have arranged,” writes Fred W. Janssen, of the CPC of the NNRC, 220 South Santa Cruz St., Venura, Calif. “Would appreciate it very much if you would cooperate with us for February and not ask any of the 1500-kc. stations to come on so that they might conflict with this schedule. It would be mighty nice for everyone if we could get the cooperation of all the clubs in putting this schedule over.” We think this an excellent idea and hope that the stations invited to participate will do so. In view of the fact that they have not as yet accepted as we go to press, we deem it best to publish this calendar separately. Time is in EST.

Thursday Morning, Feb. 8  
3:00-4:00 WSYB, Rutland, Vt.  
Friday Morning, Feb. 9  
3:00-4:00 CRCS, Chicoutimi, Que.  
Saturday Morning, Feb. 10  
3:00-4:00 WKEU, La Grange, Ga.  
Sunday Morning, Feb. 11  
3:00-4:00 KPQ, Wenatchee, Wash.  
Monday Morning, Feb. 12  
3:00-4:00 WKBV, Richmond, Ind.  
Tuesday Morning, Feb. 13  
3:00-4:00 WKBB, East Dubuque, Ill.  
Wednesday Morning, Feb. 14  
3:00-4:00 KGFI, Corpus Christi, Tex.  
Thursday Morning, Feb. 15  
3:00-4:00 WBNF, Binghamton, N. Y.  
Friday Morning, Feb. 16  
3:00-4:00 WWRW, Woodside, N. Y.  
Saturday Morning, Feb. 17  
3:00-4:00 WMPC, Lapeer, Mich.  
Sunday Morning, Feb. 18  
3:00-4:00 KREG, Santa Ana, Calif.  
4:00-5:00 KPJM, Prescott, Ariz.  
Monday Morning, Feb. 19  
3:00-4:00 WFDV, Rome, Ga.  
Tuesday Morning, Feb. 20  
3:00-4:00 WRDW, Augusta, Ga.

Wednesday Morning, Feb. 21  
 3:00-7:00 WOPI, Bristol, Tenn.  
 Thursday Morning, Feb. 22  
 3:00-4:00 KGKB, Tyler, Tex.  
 Friday Morning, Feb. 23  
 3:00-4:00 KDB, Santa Barbara, Calif.  
 Saturday Morning, Feb. 24  
 3:00-4:00 WMBQ, Brooklyn, N. Y.  
 4:00-5:00 WCNW, Brooklyn, N. Y.  
 Sunday Morning, Feb. 25  
 3:00-4:00 KXO, El Centro, Calif.  
 4:00-5:00 WKBZ, Ludington, Mich.  
 Monday Morning, Feb. 26  
 3:00-4:00 KNOW, Austin, Tex.  
 Tuesday Morning, Feb. 27  
 3:00-4:00 WWSW, Pittsburgh, Pa.  
 Wednesday Morning, Feb. 28  
 3:00-4:00 WHEF, Kosciusko, Miss.

*"Help Yourself to Better Reception" is the title of an article which will appear in the March issue. It covers the subject of street noises and how to erect an aerial that will block them out.*

## What's Wrong *with* Set

*(Continued from page 36)*

tached, and connected together to a common terminal which, in turn, is connected to the plate of the 56 a.v.c. tube just placed within the set.

The cathode terminal, on the socket, of this tube, is connected, through a 25,000 to 50,000 ohms resistor (selected by experimentation) to the tap on the first filter choke that connects to the speaker field coil. This resistor in the cathode is shunted with a 0.1 mfd. fixed by-pass condenser. The grid of the a.v.c. tube is then connected to the plate of the second intermediate-frequency tube through a .00025 mfd. condenser inserted in series. The grid of the a.v.c. tube (56) also is returned to the cathode circuit of the same tube through a 2 megohm resistor placed in series. The plate of the a.v.c. tube, which is also con-

nected to the lower ends of the three stages above mentioned through the 250,000 ohms resistors, is by-passed to the cathode through a 0.5 by-pass condenser.

The heater of the a.v.c. tube is connected to the common heater winding of the power unit furnishing any of the 2.5-volt tubes. The plate of the a.v.c. tube, also is grounded through a resistor that is variable between 10,000 and 150,000 ohms.

After this work has been done the entire set may require readjusting for proper r.f. and i.f. alignment. We do not advise the use of new tubes of the 50 series in this circuit.

## BETTY'S Gossip Page

*(Continued from page 10)*

teners. Finally she went to a psychoanalyst with her trouble and received this opinion from him; Her melancholy tones are of a type that make the men want to comfort her and at the same time woman listeners feel sorry for her!

\* \* \*

George Hall's father, a classical musician who used to play with Victor Herbert, won't listen to his son broadcast . . . can't get over George turning to dance music when he might have been a classical artist himself.

\* \* \*

Albert Spalding, America's foremost violinist, knocks on the rare wood of his \$35,000 Guarnerius fiddle for luck before he starts his broadcast over Columbia every Wednesday at 8:30 p.m., EST.

\* \* \*

Isham Jones is the only one to hold cards in both the musicians' and coal miners' unions. He himself once labored in Ohio mines and each year renews his affiliation. Incidentally, Isham has a one-year-old adopted son named David, and the boys in the

band have taught this small youngster to deliver a Bronx cheer upon request.

\* \* \*

Rudy Vallee, gertrude in a predicting mood, picks Strullie Niesen, Barbara Blair (Snoony), Joe Penner and Alice Faye as the most promising prospects in radio.

\* \* \*

Jane Froman, who's as good looking as she sings, will leave the air in April after two years of continuous broadcasting. She'll be off till September for a well-earned rest.

\* \* \*

Joe Morrison, who started "The Last Round Up" on its dizzy radio ride, is leaving George Olsen's Orchestra to enter the movies. Lanny Ross is also another radio star to break into the movies.

\* \* \*

Tea Little—that's really her name—is Jack Little's wife and manager, and she's just as Little as he is.

## DX Notes and Tips

*(Continued from page 32)*

were on 720. None of the T-Ps except 2BL have been good here this winter."

"Thanks for the tip on HIX," postcards Guy R. Bigbee, Hq. Co., 66th Inf., Fort Benning, Ga. "I was not able to turn on the radio at the beginning of the program but heard it from about 8:30 to 10 p.m. CST. Program was excellent although the static kept me from hearing all that was said. I did hear the call and that part of the announcement dedicating the program to RADEX."

"Is there anyone more lonesome than a DX fan without a radio," queries Robert R. Rawstron, 296 Main St., Claremont, N. H. "Have now sold my Eveready after four years service bringing in some 770 veries in 23 countries. Its last was LR5 in Argentine. Now I have a

new B-16 Midwest somewhere on the rails between here and Cincinnati. I would like to hear from other Midwest owners in the East and will acknowledge all letters."

"Years ago, I used to be a DX fan but not until last month did I again become interested," observes Madison Letts, 1515 R st., Lincoln, Nebr. "Last night I sat down at the radio and in five minutes pulled in my 300th catch—XEW of Mexico City. I am using a 29 model Victor-RCA, model RE-45. I have just installed the Ollie Ross ground—it makes a definite improvement in reception."

### With the Clubs

From Warren E. Winkley, Box 12, Hughson, Calif., comes the information that the late Transcontinental Radio DX Club has been reorganized and renamed the Universal Radio DX Club with Charles C. Norton, 2559 Polk St., San Francisco, as president. Station KPCB, two of whose officers are directors of the Club, is putting on a DX program for the new club "every other first Monday of each month from midnight to 2 a.m., PST. My log is now at 428," says Mr. Winkley, "with one Chinese, five Aussies, one Zedder, 29 Japs and F31CD. On the night of Oct. 21 I picked up 22 Japs—the best night I ever experienced. I can start listening to them as early as 10:30 p.m., PST."

The Universal Radio DX Club, said to be the only club of its kind in the West, is putting out a news sheet every ten days. They hope to put on many special programs by stations that are rarely heard in the East. The membership fee is 35 cents and the dues 95 cents a year. Club news and tips will be given out over station KPCB on the first Monday morning of each month from midnight to 2 a.m., PST.

"KDKA has a DX club now," postcards Joe Stokes, 7318 Woodlawn Ave., Swisssvale, Pa. "They are broadcasting tips and news every Sunday night at 12:30 a.m., EST."

# WHAT'S ON THE AIR TONIGHT?

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

COLUMBIA.....(C)	
Call	Dial

NATIONAL, Red (R)	
Call	Dial

NATIONAL, Blue.(B)	
Call	Dial

TIME: E Eastern; C Central; M Mountain; P Pacific.

RADEX is the only publication listing stations in alphabetical order for your convenience. While these programs are correct at the time of going to press changes are made from time to time.

## MONDAY

**E-8:00 p.m., C-5:00, M-4:00, P-3:00**  
**C — Buck Rogers in 25th Century**

CKLW WAAB WABC WADC WBT  
 WCAO WCAU WDRC WEAN WHK  
 WJSV WKHW WOKO

**R — Waldorf Astoria Orchestra**

KDYL KFYR KOA KPO KPRC KSD  
 KSTP KTBS KTHS KVOO WAPI  
 WBEN WCAE WCSH WDAF WDAY  
 WFAF WEBC WFAA WFLL WHO  
 WJBA WJOD WIS WJAR WJAX  
 WJDX WKY WMAQ WMC WQAI  
 WOC WRC WRVA WSAI WSB WSM  
 WSMB WSOB WTAG WWJ WYNC

**B — U. S. Army Band**

KOIL KSO KWCR KWK KYW WBAL  
 WBZ WBZA WCKY WENR WHAM  
 WJZ WMAL WRN WSYR

**E-6:15 p.m., C-5:15, M-4:15, P-3:15**  
**C — Bobby Benson; Sunny Jim**

WBAW WABC WCAU WDRC WEAN  
 WFBL WGR WHEC WHK WLIZ  
 WMAS WOKO WORC

**E-6:30 p.m., C-5:30, M-4:30, P-3:30**  
**C — Enoch Light and Orchestra**

CKLW KLRN WAAB WADC WBIG  
 WBRC WCAO WCAU WDAE WDBO  
 WDDO WDRC WDSU WFBL WFEA  
 WGLC WGST WHEC WHF WICC  
 WKRN WRBW WLBZ WMAS WMBG  
 WOKO WORC WQAM WSJS WSPD  
 WTAR WTOC

**R — Irene Beasley, Songs**

KGO KOA WAPI WBEN WCKY  
 WFAF WFBR WGY WHO WJDX  
 WMC WOC WSAI WSB WSM WSMB  
 WSOB WTAG WWJ

**E-8:45 p.m., C-5:45, M-4:45, P-3:45**  
**R — Horsensense Philosophy; Andrew Kelly**

KOA WAPI WBEN WCAE WCKY  
 WFAF WFAA WFBR WGY WHO  
 WJDX WMAQ WMC WOC WSAI  
 WSB WSM WSMB WTAG WWJ

**B — Lowell Thomas**

CRCT KDKA WBAL WBZ WPZA  
 WFLA WGAR WHAM WIOD WJAX  
 WJR WJZ WLW WSYR

**C — Mildred Bailey, Songs**

CFRB CKLW KLRN KLZ KMBC  
 KOMA KRLD KSCJ KTRH WAAB  
 WABC WBIG WBRC WCAH WCAO  
 WCAU WDAE WDBJ WDDO WDRC  
 WDSU WEAN WFBL WFBR WFEA  
 WGLC WGST WHAS WHEC WHP  
 WIBW WICC WISN WJSV WKBN  
 WKBW WLBZ WMAS WMBG WMT  
 WOKO WORC WQAM WSJS WSPD  
 WTAR WTOC WWVA

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

**C — Myrt and Marge**

CKLW KRLD WABC WADC WBT  
 WCAO WCAU WDAE WDRC WDRC  
 WEAN WFBL WGR WHK WJAS  
 WJSV WKRC WNAC WOKO WQAM  
 WSPD WTOC WWVA

**R — Mollie Show**

KSD WBEN WCAE WCSH WDAF  
 WFAF WEEI WFBR WGY WJAR  
 WLIT WOV WRC WSAI WTOC  
 WRC WTAG WTAM WTIC WWJ

**B — Amos 'n' Andy**

CRCT KDKA WBAL WBZ WPZA  
 WCKY WFLA WGAR WHAM WIOD  
 WJR WJZ WLW WMAL WPTF  
 WRVA

**E-7:15 p.m., C-6:15, M-5:15, P-4:15**  
**C — Just Plain Bill**

CFRB CKLW WABC WCAO WCAU  
 WGR WHK WJSV WKRC WNAC

**R — Billy Bacher; Ray Knight**

WEAF WGY WJAR WRC WTAG  
 WTAM WWJ

**B — Baby Rose Marie, Songs**

KDKA WBAL WBZ WPZA WHAM  
 WJZ WMAL WSYR

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

**C — Music in the Air**

WABC WCAO WCAU WDRC WEAN  
 WFBL WFEA WGR WHEC WICC  
 WJAS WJSV WLBZ WNAC WOKO  
 WORC

**R — Lum and Abner**

KSD WBEN WCAE WCSH WDAF  
 WFAF WEEI WFBR WGY WJAR  
 WLW WRC WTAG

**B — Potash and Perlmutter**

KDKA KOIL KSO KWCR KWK  
 WBAL WBZ WPZA WCKY WENR  
 WHAM WJR WJZ WMAL WRN  
 WSYR

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

**C — Boake Carter; Philco**

CKLW KMBC KMOX WABC WBBM  
 WBT WCAO WCAU WCCO WGR  
 WHAS WHK WJAS WJSV WNAC

**R — The Goldbergs**

WBEN WCAE WCSH WDAF WFAF  
 WEEI WENR WFBR WGY WJAR  
 WLIT WOW WRC WSAI WTAG  
 WTAM WWJ

**B — Mme. Frances Alda**

KDKA KDYL KFI, KFYR, KGO  
 KGW KHQ KOA KOIL KOMO  
 KPRC KTBS KTHS KWCR KWK  
 KYW WBAL WBAP WBZ WPZA  
 WHAM WJAX WJDX WJZ WKY  
 WMAL WQAI WMBG WSYR

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

**C — Happy Bakers**

CKLW WABC WADC WCAH WDRC  
 WFBM WGN WGR WHEC WHK  
 WICC WJSV WMAS WMBG WMT  
 WNAC WORC WSPD WWVA

**R — Soconyland Sketches—Drama**

WBEN WCSH WFAF WEEI WGY  
 WJAR WTAG WTIC

**B — Sealed Power Side Show**

KDKA KFYR KOIL KPRC KSO  
 KSTP KTBS KTHS KVOO KWCR  
 KWK WBAL WBZ WPZA WDAY  
 WDEB WFAA WGAR WHAM WJAX  
 WJDX WJR WJZ WKY WLS WMAL  
 WMC WQAI WSB WSM WSMB  
 WSYR WTMJ

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

CKLW KMBC KMOX WABC WADC  
 WCAO WCAU WCCO WDRC WEAN  
 WFBL WFBR WGN WGR WHK  
 WJAS WJSV WKRC WNAC WOKO  
 WSPD

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

**C — Bing Crosby**

CKLW KDB KERN KFBK KFPY  
 KPRC KGB KHJ KLZ KMBC KMJ  
 KMOX KOIN KOL KSL KVI KWG  
 WABC WADC WCAO WCAU WDRC  
 WEAN WFBL WFBR WGN WGR  
 WHAS WHK WJAS WJSV WKRC  
 WNAC WOKO WOWO WSPD

**R — Voice of Firestone**

CFBF CRCT KFYR KPRC KSD  
 KTBS KTHS KVOO WBEN WCSH  
 WDAF WDAY WFAF WEBC WEEI  
 WFAA WFBR WFLA WGY WHO  
 WIOD WIS WJAR WJAX WJDX  
 WKY WLIT WLW WMAQ WMC  
 WQAI WOC WOW WRC WRVA WSB  
 WSM WSMB WSOB WTAG WTAM  
 WTIC WTMJ WWJ WYNC

**B — Djer Kiss Recital**

KDKA KSO KWCR KWK  
 WBAL WBZ WPZA WCKY WGAR  
 WJZ WLS WMAL WRN WSYR

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

**B — Red Davis—Dramatic Sketch**

KDKA WBAL WBZ WPZA WHAM  
 WJR WJZ WLS WSYR

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

**C — Philadelphia Symphony Orchestra**

CKLW KDB KERN KFBK KFH  
 KFPY KPRC KGB KHJ KLRN KLZ  
 KMBC KMJ KMOX KOH KOIN  
 KOL KOMA KSL KTRH KTSK  
 KVI KWG WABC WADC WBBM  
 WBRC WBT WCAH WCAO WCAU  
 WCCO WDAE WDBJ WDRC

**MONDAY—(Continued)**

WDSU WEAN WFBL WFBB WGR  
WGST WHAS WHEC WHK WICC  
WISN WJAS WJSV WKRC WLAC  
WLBB WMBG WMT WNAO WOKO  
WOWO WPGM WQAM WRRC WRR  
WSPD WTR WTCO

**R — A. & P. Gypsies**  
KSD WBEN WCAE WCHS WDAF  
WEAF WEEL WGY WHO WJAR  
WLIT WMAQ WOC WOV WRC  
WSAI WTAG WTAM WTC WJJ

**B — Sinclair Minstrels**  
KDKA KFJR KOA KOIL KPRC  
KSO KSTP KTBS KTHS KVOO  
KWCR KWK KWB WLBB WBAZ  
WDAY WEBC WFAA WFLA WQAR  
WHAM WIBA WIOD WIS WJAX  
WJDX WJR WJZ WKY WLN WLW  
WMC WOAI WPTF WRN WRVA  
WSB WSM WSMB WTMJ WWNC

**E-9:15 p.m., C-8:15, M-7:15, P-6:15**  
**C — Buick; Andre Kostelanetz**  
CKLW KDP KERN KFBK KFH  
KFPY KFC KGB KHJ KLK KIZ  
KMBC KMI KMOX KOIN KOL  
KOMA KSCJ KSL KTAT KTSB  
KVI KWG WABC WADC WBBM  
WBRC WBT WCAH WCAO WCAU  
WCCO WDAE WDRC WDSU WEAN  
WFBL WFBM WGST WHAS WHEC  
WHK WIBW WICG WISN WJAS  
WJSV WKBB WKRC WLAC WMBD  
WMT WNAO WOKO WOWO WQAM  
WREC WRR WSPD WTR WTCO

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**C — Isham Jones; Gertrude Nielsen**  
CFRB CKLW KDB KERN KFBK  
KFPY KFC KGB KHJ KLZ KMBC  
KMJ KMOX KOIN KOL KRLD  
KSL KVI KWG WABC WADC  
WBBM WBT WCAH WCAO WCAU  
WCCO WDRC WDSU WEAN WFBL  
WFBM WHAS WHK WICG WJAS  
WJSV WKBB WKRC WLAC WNAO  
WOKO WOWO WRC WSPD WTR

**R — Del Monte Ship of Joy**  
KDYL KOA KPRC KSD KSTP  
KTBS KVOO WBEN WCAE WCHS  
WEAF WEBC WEEL WFAA WFBR  
WFLA WGY WHO WIOD WIS  
WJAR WJAX WKBF WKY WLIT  
WMAQ WOAI WOC WOV WRC  
WRVA WSAI WTAG WTAM WTMJ  
WJJ WWNC

**B — Jack Frost's Melody Moments**  
KDKA WBAL WENK WGAR WHAM  
WJR WJZ WLW

**E-10:00 p.m., C-9:00, M-8:00, P-7:00**  
**C — Wayne King and Orchestra**  
CKLW KALE KDB KERN KFCR  
KGB KHJ KIZ KMBC KMOX  
KOIN KOL KSL KWG WAAB WABC  
WADC WBBM WCAO WCAU WCCO  
WDRC WEAN WFBL WFBB WGR  
WHS WHK WJAS WJSV WKRC  
WOKO WOWO WSPD

**R — Contented Program**  
CFRC CRCT KDYL KFI KFJR  
KGO KGW KHQ KOA KOMO KPRC  
KSTP WCHS WEAF WEBC WEEL  
WFBR WJAR WLIT WMC WOAI  
WRC WSR WSM WTAG

**B — Marcel Rodrgo, Baritone**  
KDKA KOIL KSO KWCR KWK  
WBAL WBBZ WBZA WHAM WJZ  
WMAL WBYR

**E-10:30 p.m., C-9:30, M-8:30, P-7:30**  
**C — Columbia News Service**  
CKAC CKLW KLRA KRLD KTRH

KTSA KVOR WAAB WABC WACO  
WBIG WBT WCAH WCAO WCAU  
WDAE WDBJ WDOO WDOD WDRC  
WEAN WFBL WFEA WGR WGST  
WHAS WHEC WHP WISN WJAS  
WJSV WKBN WLAC WLBB WLBB  
WMAZ WMT WODX WOKO WORC  
WQAM WRCB WRES WSPD WTCO

**R — Kay-Seven, Drama**  
CRCT KSD WBEN WCAE WCHS  
WDAF WEAF WEEL WFBR WGY  
WHO WJAR WLIT WLW WMAQ  
WOC WOW WRC WTAG WTAM  
WTC WJJ

**B — Henri Deering, Concert Pianist**  
KFJR KOIL KPRC KSO KSTP  
KTBS KVOO KWCR WBAL WBZ  
WBAZ WCKY WEBC WFAA WIAM  
WIBA WJDX WJZ WKY WMAL  
WOAI WREN WSB WSM WSMB  
WSYR

**E-10:45 p.m., C-9:45, M-8:45, P-7:45**  
**C — Myrt and Marge**  
KDB KERN KFBK KFPY KFCR  
KGB KHJ KLRA KLZ KMBC KMJ  
KMOX KOIN KOL KOMA KSL  
KVI KWG WBBM WBRB WCCO  
WDSU WFBM WGST WHAS WLAC  
WODX WRC

**E-11:00 p.m., C-10:00, M-9:00, P-8:00**  
**C — Evan Evans, Baritone**  
CKLW KFH KLRA KLZ KMBC  
KSCJ KTHS WAAB WABC WADC  
WBRC WCAH WCAO WDAE WDBJ  
WDBO WDOD WDRC WDSU WEAN  
WFEA WGLC WGST WHAS WHEC  
WHK WHP WIBW WICG WLP WISN  
WJAS WJSV WKBB WKBB WLBB  
WMAZ WMBD WMBG WMT WODX  
WOKO WORC WQAM WSJS WSPD  
WTR WTCO

**B — Amos 'n' Andy**  
KDYL KFI KGO KGW KHQ KOA  
KOL KOMO KPRC KSTP KTHS  
KWK WBAI WDAF WENR WKY  
WMAQ WMC WOAI WREN WSB  
WSM WSMB WTMJ

**E-11:15 p.m., C-10:15, M-9:15, P-8:15**  
**C — Boswell Sisters**  
CFRB CKLW KFAB KFH KLRA  
KLZ KMBC KTRH KTSB KVOR  
WAAB WABC WACO WADC WBT  
WCAH WCAO WCCO WDAE WDBJ  
WDBO WDOD WDRC WGAN WFBM  
WFEA WGST WHP WIBW WIP  
WISN WJAS WJSV WKBW WKBB  
WLAC WLBB WLBB WMAZ WMBD  
WMT WODX WORC WPG WQAM  
WREC WSBT WSJS WSPD WTCO

**E-11:30 p.m., C-10:30, M-9:30, P-8:30**  
**C — Abe Lyman and Orchestra**  
CFRB CKLW KFH KLRA KLZ  
KMBC KOA KTRH KTSB KVOR  
WABC WADC WBRB WCAO WCAU  
WDBJ WDRC WDSU WEAN WFBL  
WFBM WGST WHAS WHK WHP  
WIBW WICC WISN WJSV WKBW  
WLAC WLBB WMBD WMBG WMT  
WNAO WOKO WORC WPG WQAM  
WREC WSBT WSJS WTR WTCO

**R — Voice of Firestone**  
KDYL KFI KFSD KGHK KGIR KGO  
KGU KGW KHQ KOA KOMO KTR

**E-12:00 p.m., C-11:00, M-10:00, P-9:00**  
**B — Sealed Power Side Show**  
KDYL KFI KGHK KGIR KGO KGW  
KHQ KOA KOMO KTR

**TUESDAY**

**E-8:00 p.m., C-5:00, M-4:00, P-3:00**  
**C — Buck Rogers, See Monday**  
**R — Waldorf Astoria, See Monday**  
**B — Richard Himber and Orchestra**  
KOIL KSO KWCR WBAL WOKY  
WENR WHAM WJR WJZ WMAL  
WREN

**E-6:15 p.m., C-5:15, M-4:15, P-3:15**  
**C — Bobby Benson, See Monday**

**E-6:30 p.m., C-5:30, M-4:30, P-3:30**  
**R — Mid-Week Hymn Sing**  
KDYL KFJR KGIR KPO KPRC  
KTBS KTHS KVOO WDAY WEAF  
WFAA WFI WGY WHO WIBA WIS  
WJAX WJDX WMAQ WOAI WOC  
WRC WSAI WTAG WUNC

**B — Mary Small, Juvenile Singer**  
KSO KWCR WBAL WCKY WENR  
WHAM WJZ WREN WSYR

**C — Betty Barthell, Songs**  
CKLW KLRA WAAB WABC WADC  
WBRC WCAO WCAU WCCO WDAE  
WDBJ WDOO WDOD WDRC WDSU  
WFBL WFEA WGLC WGR WGST  
WHEC WHP WICG WKBW WLBB  
WMAZ WMBG WOKO WORC WQAM  
WSJS WSPD WTR

**E-6:45 p.m., C-5:45, M-4:45, P-3:45**  
**C — Little Italy**  
WAAB WABC WCAO WCAU WDRC  
WEAN WHEC WHP WKBW WOKO

**R — Cheerio Musical Mosaics**  
KDYL KOA KPO KSD WCKY  
WEAF WEEL WFBR WFLA WGY  
WHO WIOD WIS WJAR WJAX  
WJDX WMAQ WOC WOW WRVA  
WSAI WSM WSOC WTAG WJJ  
WWNC

**B — Lowell Thomas, See Monday**

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

**E-7:15 p.m., C-6:15, M-5:15, P-4:15**  
**C — Just Plain Bill, See Monday**  
**R — Billy Bachelor, See Monday**  
**B — Radio in Education**  
KDKA KECA KEX KFSD KFJR  
KGA KGHK KGIR KJR KOA KOIL  
KPRC KTRH KTBS KTHS KVOO  
KWCR KWK KYA WAPI WBAP  
WBZ WBZA WCKY WFLA WHAM  
WIBA WIS WJDX WJZ WMAL  
WOAI WPTF WREN WSMB WWNC

**E-7:30 p.m., C-6:30, M-5:30, P-4:30**  
**C — Silver Dust Serenaders**  
WABC WCAU WDRC WFBL WGR  
WHEC WJAS WMAZ WOKO WORC  
WVVA

**E-7:45 p.m., C-6:45, M-5:45, P-4:45**  
**B — Phil Harris and Orchestra**  
KDKA KFJR KOIL KPRC KSTP  
KTBS KWCR KWK WBAP WBZ  
WBAZ WENR WFLA WGAR WHAM  
WIBA WIS WJZ WKY WMAL WRVA  
WSYR WWNC

**C — Boake Carter, See Monday**  
**R — Goldbergs, See Monday**

**E-8:00 p.m., C-7:00, M-6:00, P-5:00**  
**C — Columbians; Freddie Rich**  
CKLW KFH KLRA KMBC KOMA  
KSCJ KTRH WABC WADC WBBM  
WBIG WBRB WCAH WCAO WCAU  
WCCO WDAE WDBJ WDBO WDOD  
WDRC WDSU WEAN WFBL WFBM  
WFEA WGLC WGR WGST WHAS

## TUESDAY—(Continued)

WHCC WHP WIBW WICC WISN  
WJAS WRBN WLWZ WMAS WMBG  
WMT WNAC WOKO WORC WPG  
WQAM WSBT WSJS WSPD WTR  
WVVA

### R—Leo Reisman and Orchestra

WBEN WCAE WCSH WFAE WVEE  
WFI WGY WJAR WRC WTAG  
WTAM WWJ

### B—Eno Crime Clues

KDKA KWK WBAL WBZ WBZA  
WGAR WHAM WJR WJZ WLW  
WMAL WMAQ WREN

**E-8:15 p.m., C-7:15, M-8:15, P-5:15**

**C—Edwin C. Hill, See Monday**

**E-8:30 p.m., C-7:30, M-8:30, P-5:30**

### C—Voice of Experience

CKLW KMBC KMOX WABC WBBM  
WBT WCAO WCAU WDRC WEAN  
WGR WHAS WHK WJAS WJSV  
WKRC WNAC

### R—Wayne King and Orchestra

KPRC KSD KSTP WBN WCAE  
WCSH WDAF WFAE WVEE WFAA  
WFI WGY WHO WJAR WKBF  
WKY WMAQ WMC WOAI WOC  
WOW WRC WSAI WBS WSM WSMB  
WTAG WTAM WTMJ WWJ

### B—Horlick's Adventures in Health

CRCT KDKA KOIL KSO KWK  
WBAL WBZ WBZA WGAR WHAM  
WJR WJZ WLS WLW WREN

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

### C—Fray and Braggiotti

CKLW KFH KLRA KOMA WABC  
WADC WBIG WBRC WCAH WCAO  
WCAU WCCO WDAE WDBJ WDOD  
WDSU WEAN WFBL WFEA WGLC  
WGR WGST WHCC WHK WIBW  
WISN WJAS WKBN WLWZ WMAS  
WMBG WMT WOKO WQAM WSJS  
WSPD

### B—Nat Shilkret and Orchestra

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

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

### R—Ben Bernie and Orchestra

KFYR KOA KPRC KSD KSTP  
WBAP WBN WCAE WCSH WDAY  
WFAE WVEE WFBR WFI WGY  
WHO WJAR WKY WLW WMAQ  
WMC WOAI WOC WOW WRC  
WRVA WSB WSM WSMB WTAG  
WTAM WTMJ WWJ

### B—Household Musical Memories

KDKA KSO KWK WBAL WBZ WBZA  
WHAM WJR WJZ WKBF WLS  
WISN WSYR

### C—Phila. Symphony, See Monday

**E-9:15 p.m., C-8:15, M-7:15, P-8:15**

### C—Alexander Woolcott

CKLW KFH KLRA KLZ KMBC  
KOMA KSCJ KTRH WABC WBIG  
WBRC WCAH WCAO WCAU WCCO  
WDAE WDBJ WDOD WDOD WDRC  
WDSU WEAN WFBL WFEA WGLC  
WGR WGST WHAS WHCC WHP  
WIBW WICC WJAS WKBN WLWZ  
WMAS WMBG WMT WNAC WODX  
WOKO WORC WPG WQAM WSBT  
WWSJ WTAR

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

### C—George Jessel

CFRB CKLW KFH KLRA KLZ

KMBC KOMA KRLD KSCJ WABC  
WADC WBIG WBRC WCAH WCAO  
WCAU WCCO WDAE WDBJ WDOD  
WDOD WDRC WDSU WEAN WFBL  
WFEA WGLC WGST WHAS WHCC  
WHP WIBW WICC WJAS WJSV  
WKBN WKBW WLWZ WMAS WMBD  
WMT WNAC WODX WOKO WORC  
WPG WQAM WSJS WSPD WTR

### R—Texaco Fire Chief Program

KDYL KFI KFSD KFYR KGHL  
KGR KGO KGW KHQ KOA KOMO  
KPRC KSD KSTP KTR KTRH  
KVOO WBAP WBN WCAE WCSH  
WDAF WDAY WFAE WVEE WFB  
WFR WFI WFLA WGY WHO WIBA  
WIOD WIS WJAR WJAX WJDX  
WKY WLW WMAQ WMC WOAI  
WOC WOW WPTF WRC WRVA  
WSB WSM WSMB WTAG WTAM  
WTMJ WWJ WWNC

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

### C—Camel; Glen Gray's Orchestra

CKLW KDB KERN KFBK KFH  
KFPY KFRK KGB KHJ KLRA KLZ  
KMBC KMJ KMOX KOIN KOL  
KOMA KRLD KSCJ KSL KTRH  
KTS KVI KWG WAAB WABC  
WACO WADC WBBM WBIG WBRC  
WBT WCAH WCAO WCAU WCCO  
WDAE WDBJ WDOD WDOD WDRC  
WDSU WFBL WFBM WEA WGST  
WHAS WHCC WHK WHP WIBW  
WICC WJAS WJSV WKBH WKBN  
WKBW WJRC WLAC WLWZ WMAS  
WMBD WMBG WMT WMAX WODX  
WOKO WORC WOWO WPG WQAM  
WREX WSJS WSPD WTR WTCC

### R—Cruise of Seth Parker

KDYL KFI KGO KGW KHQ KOA KOMO  
KPRC KSD KSTP KTR KTRH  
KVOO WBAP WBN WCSH WDAF  
WDAY WFAE WVEE WFB WFR  
WFI WFLA WGY WHO WIBA WIOD  
WIS WJAR WJAX WJDX WKY  
WLW WMAQ WMC WOAI WOC  
WOW WRC WRVA WSB WSM  
WSMB WTAG WTAM WWJ WWNC

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

### R—Madame Sylvia—Beauty Talk

KDYL KFI KGO KGW KHQ KOA KOMO  
KSD KSTP WBN WFAE  
WVBC WVEE WGY WHO WIBA  
WMAQ WOC WRC WTAG WWJ

### C—News Service, See Monday

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

### C—Myrt and Marge, See Monday

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

### B—Amos 'n' Andy, See Monday

### C—Harlem Serenade

CKLW KFH KLRA KLZ KMBC  
KSCJ KTRH WAAB WABC WADC  
WBRC WCAH WCAO WDAE WDBJ  
WDOD WDOD WDRC WDSU WEAN  
WFBM WFEA WGLC WGST WHAS  
WHCC WHP WIBW WICC WISN  
WJAS WKBN WKBW WLWZ WMAS  
WMBD WMBG WMT WODX WOKO  
WORC WQAM WSBT WSJS WSPD  
WTR WWVA

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

### C—Dell Campo, Songs

CFRB CKLW KFH KLRA KLZ  
KMBC KSCJ WAAB WABC WADC  
WBRC WCAH WCAO WCAU WCCO  
WDAE WDBJ WDOD WDOD WDRC  
WDSU WEAN WFBL WFBM WGLC  
WGST WHAS WHCC WHK WHP

WIBW WISN WJAS WKBN WKBW  
WLWZ WMBD WMT WODX WOKO  
WORC WPG WQAM WSBT WSJS  
WSPD WTR

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

### C—Ozzie Nelson and Orchestra

CFRB CKLW KFH KLRA KLZ  
KMBC KOMA KSL KTRH KTS  
WABC WADC WBRC WCAO WDBJ  
WDR WDSU WEAN WFBL WFBM  
WGST WHK WHP WIBW WISN  
WJSV WKBW WLAC WLWZ WMBD  
WMBG WMT WNAC WOKO WORC  
WQAM WREX WSBT WSJS WTR  
WTCC WWVA

### B—Meyer Davis and Orchestra

CFRC KDYL KFYR KOIL KPO  
KSTP KWCR KWK WAPI WBAL  
WBZ WBZA WCKY WDAY WBB  
WENR WFLA WHEM WIBA WIOD  
WIS WJDX WJZ WMAL WMC  
WREN WRVA WSB WSM WSMB  
WSYR WWNC

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

### C—Voice of Experience

KDB KERN KFBK KFPY KFRK  
KGB KHJ KLZ KMJ KOIN KOL  
KSL KVI KWG

**E-12:00 mid., C-11:00, M-10:00 P-9:00**

### R—Ben Bernie and Orchestra

KFI KGO KGW KHQ KOMO

## WEDNESDAY

**E-8:00 p.m., C-5:00, M-4:00, P-3:00**

### C—Buck Rogers, See Monday

### R—Waldorf Astoria, See Monday

### B—Westminster Choir

KOIL KSO KWCR KWK WBAL  
WCKY WGAR WHAM WJZ WMAL  
WREN WSYR

**E-8:15 p.m., C-5:15, M-4:15, P-3:15**

### C—Bobby Benson, See Monday

**E-8:30 p.m., C-5:30, M-4:30, P-3:30**

### R—Back of News

KFYR WFAE WFBW WGY WIBA  
WIS WJAR WJDX WRC WSAI  
WSB WSM WWJ WWNC

### B—Irene Seasey, Contralto

KGO KOA KPRC KSO KTBS KVOO  
KWCR WBAL WBAP WCKY WENR  
WGAR WJZ WOA WREN

### C—Enoch Light, See Monday

**E-8:45 p.m., C-5:45, M-4:45, P-3:45**

### B—Lowell Thomas, See Monday

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

### C—Myrt and Marge, See Monday

### R—Molle Shaw, See Monday

### B—Amos 'n' Andy, See Monday

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

### C—Just Plain Bill, See Monday

### R—Billy Bachelor, See Monday

### B—John Herrick, Baritone

KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WCKY WENR  
WHAM WJZ WMAL WSYR

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

### C—Music in Air, See Monday

### B—Potash and Perlmutter, See Mon.

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

### C—Boake Carter, See Monday

### R—Goldberg, See Monday

### WEDNESDAY—(Cont'd)

**B** — Irene Rich in Hollywood  
KDKA WBAL WBZ WBZA WCKY  
WENR WJZ WMAL WMC WSB WSM  
WSMB WSYR

**E-8:00 p.m., C-7:00, M-6:00, P-5:00**  
**C** — Happy Bakers. See Monday

**R** — Jack Pearl  
CFPC CROT KSD WBEN WCAE  
WCKY WCSH WDAF WFAF WEEI  
WFBR WGY WHO WJAR WLIT  
WLS WOC WOW WRC WSAI WTAG  
WTAM WTIC WWJ  
**B** — Eno Grime. See Tuesday

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

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
**C** — Albert Spalding; Conrad Thibault  
CFRB CKAC CKLW KDB KERN  
KFBB KFPY KFRG KGB KHJ  
KLA KLZ KMBC KMJ KMOX  
KOLN KOL KOMA KSL KTAT  
KTRH KTSa KVI KWG WABC  
WBRC WCAO WCAU WCCO WDDO  
WDRG WDSU WEAN WFBL WFBM  
WGN WJR WGST WHAS WHK  
WJAS WJSV WKRC WLAC WMT  
WNAO WOKO WORC WOWO WREC  
WRR

**B** — Dangerous Paradise, Drama  
CFCK KDKA KOIL KSO KWCR  
KWK WBAL WBZ WBZA WJAR  
WHAM WJR WJZ WLS WMAL  
WREN WSYR

**R** — Wayne King and Orchestra  
KSD WBEN WCAE WCSH WFAF  
WFBR WGY WJAR WKBF WLIT  
WMAQ WOW WRC WSAI WTAG  
WTAM WWJ

**E-8:45 p.m., C-7:45, M-6:45, P-5:45**  
**C** — Red Davis. See Monday

**E-9:00 p.m., C-8:00, M-7:00, P-6:00**  
**R** — Ipana Troubadours

KDYL KFI KGO KGW KHQ KOA  
KOMO KPRC KSD KSTP KTBS  
KTHS KVOO WAPI WBAP WBEN  
WCAE WCSH WDAF WFAF WFAA  
WFBR WGY WHO WIOD WIS  
WJAR WJAX WKY WLIT WMAQ  
WMC WOA WOC WOW WRC  
WRVA WSAI WSB WSM WSMB  
WTAG WTAM WTMJ WWJ  
**B** — Warden Lawes; Sing Sing Drama  
KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WCKY WJAR  
WHAM WJR WJZ WLS WMAL  
WREN WSYR

**C** — Philadelphia Symphony. See Mon.

**E-9:15 p.m., C-8:15, M-7:15, P-6:15**  
**C** — Col. Stoppaigne and Budd

CKLW KDB KERN KFBK KFH  
KFYR KFRG KGB KHJ KLRA KLZ  
KMBC KMJ KMOX KOIL KOL  
KOM A KRLD KSCJ KSL KTRH  
KTSa KVI KWG WABC WADC  
WBMB WBRC WBT WCAH WCAO  
WCAU WCCO WDAE WDRG WDSU  
WEAN WFBL WFBM WGST WHAS  
WHFC WHK WIBW WICC WISN  
WJAS WJSV WKRW WKRC WLAC  
WMBD WMT WNAO WOKO WOWO  
WQAM WRC WSPD WTAR WTOC

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**C** — Guy Lombardo—Burns and Allen  
CKLW KDB KERN KFBK KFPY  
KFRG KGB KHJ KLZ KMBC KMJ  
KMOX KOIL KOL KOMA KRLD

KSL KTRH KTSa KVI KWG WABC  
WADC WBT WCAO WCAU WCCO  
WDRG WEAN WFBL WFBM WGN  
WHK WJAS WJSV WKBW WKRC  
WNAO WOKO WORC WOWO WSPD

**R** — Fred Allen's Revue  
KSD KSTP WBEN WCAE WCSH  
WDAF WFAF WFBR WGY WJAR  
WLIT WMAQ WOW WRC WSAI  
WTAG WTAM WTMJ WWJ

**B** — John McCormack, Tenor  
KDKA KDYL KFI KGO KGW KHQ  
KOA KOIL KOMO KSO KWCR  
KWK WBAL WBZ WBZA WCKY  
WENR WJAR WHAM WJR WJZ  
WMAL WREN WSYR

**E-10:00 p.m., C-9:00, M-8:00, P-7:00**  
**C** — Old Gold — Ted Fiorito and Orch.

CKLW KDB KERN KFBK KFOR  
KFPY KFRG KGB KHJ KLRA KLZ  
KMBC KMJ KMOX KOIL KOIN  
KOL KOMA KRLD KSCJ KSL  
KTRH KTSa KVI KWCR KWG  
WABC WACO WADC WBIG WBRC  
WBT WCAH WCAO WCAU WCCO  
WDAE WDBJ WDBO WDDO WDRG  
WDSU WEAN WFBL WFBM WFAA  
WGN WGST WHAS WHFC WHK  
WHP WIBW WICC WISN WJAS  
WJSV WKBH WKBW WKRC WLAC  
WLWB WLWB WMAS WOKO WORC  
WOTO WPG WNAO WRC WSPD  
WTR WTAR WTOC

**R** — Corn Cob Pipe Club  
KDYL KFI KFYR KGHJ KGIR  
KGO KGW KHQ KOA KOMO KSD  
KSTP WBEN WCAE WCSH WDAF  
WDAF WFAF WBEW WEEI WENR  
WFBR WGY WHO WIBA WJAR  
WLIT WLW WOC WOW WRC  
WRVA WTAG WTAM WTIC WTMJ  
WWJ

**B** — Benny Meroff Revue  
KDKA KOIL KPRC KSO KTHS  
KWCR KWK WAPI WAVE WBAL  
WBZ WBZA WFAA WFLA WJAR  
WHAM WIOD WIS WJAX WJDX  
WJZ WKY WMAL WMC WOA  
WREN WSB WSM WSMB WSOC  
WVNC

**E-10:30 p.m., C-9:30, M-8:30, P-7:30**  
**R** — National Radio Forum

KFYR KPRC KSD KSTP KTHS  
KVOO WBEN WCAE WCSH WDAY  
WFAF WEEI WFAA WFBR WFLA  
WGY WHO WIBA WIS WJAR WJAX  
WJDX WKY WMAQ WOA WOC  
WOW WRC WRVA WSAI WSB WSM  
WSMB WTAG WTAM WTIC WWJ  
WVNC

**C** — News Service. See Monday

**E-10:45 p.m., C-9:45, M-8:45, P-7:45**  
**C** — Myrt and Marge. See Monday

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

**C** — Andre Kostelanetz  
CKLW KFH KLRA KLZ KMBC  
KSCJ KTRH KTSa WAAB WABC  
WACO WADC WBRC WCAH WCAO  
WDAE WDBJ WDBO WDDO WDRG  
WDSU WEAN WFBM WFEA WGLC  
WGST WHAS WHFC WHK WHP  
WIBW WICC WISN WJAS WKBW  
WLAC WLWB WLWB WMAS WMBD  
WMBG WMT WNAO WODX WOKO  
WORC WPG WQAM WRC WSBT  
WSJS WSPD WTAR WTOC

**E-11:15 p.m., C-10:15, M-9:15, P-8:15**  
**C** — Isham Jones and Orchestra

CFRB CKLW KFH KLRA KLZ  
KMBC KSCJ KTRH KTSa WAAB  
WABC WACO WADC WBRC WCAH  
WCAO WCCO WDAE WDBJ WDBO  
WDDO WDRG WDSU WEAN WFBL  
WFBM WGLC WGST WHAS WHFC  
WHP WIBW WIP WISN WJAS  
WKBW WLAC WLWB WLWB WMAS  
WMBD WMBG WMT WNAO WODX  
WOKO WORC WPG WQAM WREC  
WSBT WSJS WSPD WTAR WTOC

**B** — Warden Lawes; Sing Sing Drama  
KDYL KFI KGO KGW KHQ KOA  
KOMO KPRC KTBS KTHS KVOO  
WAPI WBAP WJDX WKY WMC  
WOAI WSB WSM WSMB

**R** — Poet Prince, Songs  
KDYL KFI KFYR KGO KGW KHQ  
KOA KOIL KOMO KSO KSTP KTBS  
KTHS KWCR KWK WAPI WBAL  
WCKY WDAY WEBE WFAA WIBA  
WJDX WJR WJZ WKY WMAL  
WMAQ WMC WREN WSB WSYR

**E-11:30 p.m., C-10:30, M-9:30, P-8:30**  
**C** — Edwin C. Hill

KDB KERN KFBK KFPY KFRG  
KGB KHJ KLZ KMJ KOIL KOL KSL  
KVI KWG

**E-12:30 a.m., C-11:30, M-10:30, P-9:30**  
**R** — Fred Allen's Revue

KDYL KFI KGO KGW KHQ KOA  
KOMO

### THURSDAY

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

**R** — Waldorf Astoria. See Monday

**B** — Henry King and Orchestra  
KOIL KSO KWCR WBAL WBZ  
WBZA WCKY WENR WHAM WJR  
WJZ WMAL WREN WSYR

**E-6:15 p.m., C-5:15, M-4:15, P-3:15**  
**C** — Bobby Benson. See Monday

**E-6:30 p.m., C-5:30, M-4:30, P-3:30**  
**R** — John B. Kennedy

KDYL KFYR KOA KPO KPRC KSD  
KTBS KTHS KVOO WAPI WDAY  
WEAF WFBR WFI WGY WHO WIBA  
WIS WJAX WJDX WMAQ WMC  
WOR WRC WSAI WSB WSMB WTAG  
WWJ WVNC

**C** — Edith Murray, Songs  
WAAB WABC WBIG WBRC WBT  
WCAO WDAE WDBJ WDSU WFEA  
WGST WHEC WHP WJSV WKBW  
WLWB WMAS WMBG WORC WQAM  
WREC WSFA WSJS WTOC

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

**C** — Little Italy. See Tuesday

**R** — Southernaire; Negro Quartet  
KDYL KOA KPO KSD WFAF WFBR  
WFI WGY WHO WIS WJAX WMAQ  
WOC WRC WSAI WTAG WWJ  
WVNC

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

**B** — Amos 'n' Andy. See Monday

**E-7:15 p.m., C-6:15, M-5:15, P-4:15**  
**C** — Just Plain Bill. See Monday

**R** — Billy Bachtor. See Monday

**THURSDAY—(Cont'd)**

**B** — Robin Hood, Drama  
CRCT WBAL WBZ WBZA WHAM  
WJZ WMAL WSYR

**E-7:30 p.m., C-6:30, M-5:30, P-4:30**  
**B** — Eddie Duchin and Orchestra  
KDKA WBAL WBZ WBZA WJZ  
WSYR  
**C** — Silver Dust, See Tuesday

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

**E-8:00 p.m., C-7:00, M-6:00, P-5:00**  
**R** — Rudy Vallee and Orchestra  
CFCH CRCT KDYL KFI KFJR KGO  
KGW KHQ KOA KOMO KPRC KSD  
KSTP KTAR KTHS WAFI WBAP  
WBEN WCAE WCSH WDAF WDAY  
WFEA WFBC WVEI WFBR WFI  
WFLA WGY WHO WIOD WJAR  
WJAX WJDX WKY WLW WMAQ  
WMC WOAI WOC WOW WPTF WRC  
WRVA WSB WSM WSMB WTAG  
WTAM WTMJ WJW

**C** — Morton Downey, Tenor  
CKLW KFH KLRA KMBC KOMA  
KSCJ KSL KTHS KTSA WABC  
WACO WADC WBIG WDAE WCAH  
WCAO WCAU WCCO WDBZ WDBJ  
WDBO WDOD WDRC WDSU WEAN  
WFBL WFBM WFEA WGLC WGR  
WGST WHAS WHFC WHP WIBW  
WICC WISN WJAZ WKBN WLAC  
WLBW WLWB WMAS WMBG WMT  
WNAC WOKO WORC WQAM WREC  
WSJS WSPD WTAZ WTOG WWVA

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

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
**C** — Voice of America  
CKLW KMBC KMOX WABC WADC  
WBBM WCAO WCAU WDRC WEAN  
WFBL WGR WHAS WHK WJAZ  
WJSV WKRC WNAC WOKO WOW  
WSPD  
**B** — Horlick's, See Tuesday

**E-9:00 p.m., C-8:00, M-7:00, P-6:00**  
**R** — Maxwell House Showboat  
KDYL KFI KFSB KGO KGW KHQ  
KOA KOMO KPRC KSD KSTP KTAR  
KTHS WAFI WBAP WBEN WCAE  
WFEA WFSH WDAF WFAE WVEI  
WFBY WPI WFLA WGY WHO WIOD  
WIS WJAR WJAX WJDX WKY  
WMAQ WMC WOAI WOC WOW  
WRC WRVA WSAI WSB WSM WSMB  
WTAG WTAM WTMJ WJW WYCNB  
**C** — Death Valley Days—Drama  
KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WGAR WHAM  
WJR WJZ WLS WLW WMAL WREN  
WSYR

**C** — Philadelphia Symphony, See Mon.

**E-9:15 p.m., C-8:15, M-7:15, P-6:15**  
**C** — Buick Program, See Monday

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**C** — California Melodies  
CKLW KFH KLRA KLZ KMBC  
KOMA KRLD KBJT KTSA WABC  
WACO WADC WBCG WBRC WCAO  
WCOO WDAE WDBJ WDOO WFDW  
WDRC WDSU WEAN WFBL WFEA  
WGLC WGST WHFC WHK WHP  
WIBW WICC WIP WJAZ WKBW

WKBW WLAC WLBW WLWB WMAS  
WPHD WMBG WMT WNAC WNAX  
WODX WOKO WORC WQAM WREC  
WSBT WSJS WSPD WTAZ WTOG  
**B** — Richard Himber and Orchestra  
KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WENR WGAR  
WHAM WJR WJZ WREN

**E-10:00 p.m., C-9:00, M-8:00, P-7:00**  
**R** — Paul Whiteman and Orchestra  
KDYL KFI KFJR KGO KGW KHQ  
KOA KOMO KPRC KSD KSTP KTBS  
KTHS KVOO WBAP WBEN WCAE  
WCSH WDAF WDAY WFAE WFBC  
WVEI WFBR WFLA WGY WHO  
WIBA WIOD WIS WJAR WJAX  
WJDX WKY WLW WMAQ WMC  
WOAI WOC WOW WRC WRVA WSB  
WSM WSMB WTAG WTAM WTMJ  
WJW WYCNB

**B** — Hands Across the Border  
CFAC CFBO CFCE CFCH CFCN  
CFCO CFQY CFJC CFNB CFPL  
CFQC CHAB CHGS CHNS CHRC  
CHWC CHWK CICA CIGB CIOJ  
CJGJ CJOC CJRM CJRW CKCH  
CKCK CKNC CKOC CKOV CKPC  
CKPR CKUA CKX CKY CRCO CRCS  
CRCT CRCV CFCE KDKA KOIL KSO  
KWCR WBAL WBZ WBZA WCKY  
WGAR WHAM WJR WJZ WMAQ  
WREN WSYR

**C** — Camel Program, See Tuesday

**E-10:30 p.m., C-9:30, M-8:30, P-7:30**  
**B** — Archer Gibson, Organist  
KDKA KSO KWCR KYW WBAL WBZ  
WBZA WCKY WGAR WHAM WJZ  
WMAL WREN

**C** — News Service, See Monday

**E-10:45 p.m., C-9:45, M-8:45, P-7:45**  
**C** — Myrt and Marge, See Monday

**E-11:00 p.m., C-10:00, M-9:00, P-8:00**  
**B** — Amos 'n' Andy, See Monday  
**R** — Viola Philo, Soprano  
WCAE WCSH WFAE WFI WFLA  
WGY WIOD WIS WOW WRVA  
WTAM WYCNB

**C** — Presenting Mark Warnow  
CKLW KFH KLRA KLZ KMBC  
KSCJ KTSB WAAB WABC WACO  
WADC WCAH WCAO WDAE WDBJ  
WDBO WDOD WDRC WDSU WFBM  
WFEA WGLC WGST WHAS WHFC  
WHK WHIP WIBW WICC WISN  
WJAZ WKBW WLBW WLAC WLWB  
WLWB WMAS WMBD WMBG WMT  
WNAX WODX WOKO WORC WQAM  
WREC WSJS WSPD WTAZ WTOG

**E-11:15 p.m., C-10:15, M-9:15, P-8:15**  
**C** — Charles Carlile, Tenor  
CFRB CKLW KFH KLRA KLZ  
KMBC KSCJ KSL KTSB WAAB  
WABC WACO WADC WBRC WCAH  
WCAO WCCO WDAE WDBJ WDBO  
WDOO WDRC WDSU WEAN WFBL  
WFBM WGLC WGST WHAS WHFC  
WHIP WIBW WISN WJAZ WKBW  
WLBW WLAC WLWB WLWB WMAS  
WMBD WMBG WMT WNAX WODX  
WOKO WORC WFG WQAM WREC  
WSJS WSPD WTAZ WTOG  
**B** — Poet Prince, See Wednesday

**E-11:30 p.m., C-10:30, M-9:30, P-8:30**  
**R** — Enric Madriguera and Orchestra  
KSD WBEN WCAE WCSH WDAF  
WFAE WVEI WFBY WFI WGY  
WHO WJAR WOC WOW WSAI  
WTAG WTAM

**C** — Edwin C. Hill, See Wednesday  
**C** — Isham Jones and Orchestra  
CKLW KLRA WABC WBRC WCAO  
WDAE WDBJ WDBO WDOD WDRC  
WDSU WEAN WGST WICC WIP  
WLAC WLWB WMAS WMBG WNAC  
WORC WQAM WREC WSJS WSPD  
WTAZ WTOG

**FRIDAY**

**E-6:00 p.m., C-5:00, M-4:00, P-3:00**  
**C** — H. V. Kaltenborn  
CFRB CKLW KLRA WAAB WABC  
WADC WBIG WBT WCAO WCAU  
WDAE WDBJ WDBO WDOD WDRC  
WFEA WGST WILDG WHK WICC  
WJSV WLAC WLWB WLWB WMBG  
WOKO WORC WQAM WREC WSPA  
WSJS WSPD WTOG  
**R** — Waldorf Astoria, See Monday

**E-6:15 p.m., C-5:15, M-4:15, P-3:15**  
**C** — Bobby Benson, See Monday

**E-6:30 p.m., C-5:30, M-4:30, P-3:30**  
**B** — Three X Sisters  
KDKA KOIL KWCR KWK WBAL  
WBZ WBZA WCKY WENR WHAM  
WJZ WMAL WREN WSYR

**R** — Irene Beasley, See Monday  
**C** — Tito Guizar, Tenor  
CFRB CKLW WAAB WABC WBIG  
WBRC WBT WCAO WDAE WDBJ  
WDRC WBSU WFEA WGST WHFC  
WKBW WKBW WLWB WMAS WMBG  
WOKO WORC WQAM WREC WSPA  
WSJS WTOG

**E-6:45 p.m., C-5:45, M-4:45, P-3:45**  
**C** — Zoel Parenteau's Orchestra  
CKLW WAAB WABC WBT WCAU  
WDRC WEAN WFBL WFEA WHEC  
WJSV WKBW WLWB WOKO

**R** — Lowell Thomas, See Monday  
**R** — Mountain Music  
KDYL KOA KSD WCAE WCKY  
WFAE WVEI WJDX WMAQ WOW  
WSB WTAG WJW

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

**E-7:15 p.m., C-6:15, M-5:15, P-4:15**  
**C** — Just Plain Bill, See Monday  
**R** — Billy Bachelor, See Monday  
**B** — Dramatic Sketch, See Thursday

**E-7:30 p.m., C-6:30, M-5:30, P-4:30**  
**R** — Scott's Circus Day  
KSD WCSH WDAF WFAE WVEI  
WGY WJAR WKBF WLW WMAQ  
WOW WRC WTAG WTAM WYCNB  
**B** — Potash and Perlmutter, See Mon.  
**C** — Music in Air, See Monday.

**E-7:45 p.m., C-6:45, M-5:45, P-4:45**  
**C** — Boake Carter, See Monday  
**R** — Goldbergs, See Monday  
**B** — Morton Bowe, Tenor  
KDKA WBAL WBZ WBZA WCKY  
WENR WJZ WMC WSB WSM WSMB  
WSYR

**E-8:00 p.m., C-7:00, M-6:00, P-5:00**  
**C** — Happy Bakers, See Monday  
**R** — Cities Service Concert  
CRCT KDYL KOA KPRC KSD KTBS  
KTHS KYW WBEN WCAE WDSH  
WDAF WFAE WFBC WVEI WFAA  
WFBY WGY WHO WJAR WKEI WLIT  
WOAI WOC WOW WRC WRVA WSAI  
WTAG WTAM WYCNB WTMJ WJW

**FRIDAY—(Continued)**

**B — Nestle's with Ethel Shutta**  
 KDKA KWK WBAL WBZ WBZA  
 WKCY WGAR WJR WJZ WLS WMAAL  
 WSYR

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

**E-8:30 p. m., C-7:30, M-6:30, P-5:30**  
**C — March of Time**

CKLW KDB KERN KFBK KPPY  
 KFRC KGB KHJ KLZ KMBC KMJ  
 KMOX KOIN KOL KSL KTRH KVI  
 KWG WABC WCAO WCAU WCCO  
 WDRC WDSU WEAN WFBL WFBM  
 WGN WGR WGST WHAS WIKI WJAS  
 WJSV WKRC WNAC WOKO WSPD  
**B — Dangerous Paradise, See Wed.**

**E-8:45 p. m., C-7:45, M-6:45, P-5:45**  
**B — Red Davis, See Monday**

**E-9:00 p. m., C-8:00, M-7:00, P-6:00**  
**B — Phil Harris and Orchestra**

CFCF KDKA KDYL KFI KGHL  
 KGIR KGO KGW KIH KQA KOIL  
 KOMO KSO KWCR KWK WAPI  
 WBAL WBZ WBZA WKCY WFAP  
 WGAR WJZ WKY WLS WMAAL  
 WQAI WREN WSB WSM WSMB  
 WSYR

**C — Philadelphia Symphony, See Mon.**  
**R — Frank Munn; Abe Lyman**  
 KSD WBEN WCSH WFAE WFAI  
 WFBR WGY WJAR WLIT WMAQ  
 WJW WRC WSAI WTAG WTAM  
 WWJ

**E-9:15 p. m., C-8:15, M-7:15, P-6:15**  
**C — Alexander Woolcott, See Tuesday**

**E-9:30 p. m., C-8:30, M-7:30, P-6:30**  
**C — Melodic Strings**

CFRB CKLW KFH KLRA KLZ  
 KMBC KOMA KRLD KSCJ KSL  
 KTRH KTSa KVOR WABC WACO  
 WADC WBCO WBRC WCAH WCAO  
 WCAU WCCO WDAE WDBJ WDBO  
 WDOD WDRC WDSU WEAN WFBL  
 WFBM WFEA WGLC WGST WHAS  
 WHLC WHIP WIBW WICC WJAS  
 WJSV WKBW WLAC WLWB WLZ  
 WMAS WMBD WMBG WMT WNAC  
 WNAX WODX WOKO WORC WQAM  
 WREC WSBT WSJS WSPD WTAR  
 WTOC

**R — Pond's Program; Lee Wiley**  
 KSD WBEN WCAE WWSH WDAF  
 WFAE WFBR WGY WHO WJAR  
 WLIT WMAQ WOC WOV WRC WSAI  
 WTAG WTAM WTIC WWJ

**B — Armour Program; Phil Baker**  
 KDKA KDYL KFI KGO KGW KHQ  
 KOA KOIL KOMO KPRC KSO KSTP  
 KTAR KWK WAPI WBAL WBZ  
 WBZA WBC WENR WFAP WGAR  
 WHAM WIOD WJAX WJR WJZ  
 WKY WMC WQAI WREN WRVA  
 WSB WSM WSMB WTJ WWNC

**E-10:00 p. m., C-9:00, M-8:00, P-7:00**  
**C — Swift Revue — Olsen and Johnson**

CKLW KDB KERN KFBK KPPY  
 KFRC KGB KHJ KLZ KMBC KMJ  
 KMOX KOIN KOL KQA KRLD  
 KSCJ KSL KTRH KVI KWG WABC  
 WADC WBBM WBRC WBT WCAO  
 WCAU WCCO WDRC WEAN WFBL  
 WGST WHAS WHK WJAS WJSV  
 WKBW WKRC WNAC WOKO WOV  
 WREC

**R — First Nighter—Drama**  
 CROC KDYL KFI KGO KGW KHQ  
 KOA KOMO KPRC KSD KSTP  
 WAPI WBEN WCAE WCSH WDAF  
 WFAE WBC WELI WFBR WGY  
 WHO WJAR WKY WLIT WMAQ  
 WOAI WOC WOV WRC WSAI WSB  
 WSM WSMB WTAG WTAM WTIC  
 WTJ WWJ

**B — Armo Ironmaster Program**  
 KDKA KOIL KSO KWCR WBAL  
 WBZ WBZA WENR WGAR WHAM  
 WJR WJZ WLW WMAAL WREN  
 WSYR

**E-10:30 p. m., C-9:30, M-8:30, P-7:30**  
**B — Mario Cozzi, Baritone**

KDKA KFYR KOIL KSO WAPI  
 WBAL WBZ WBZA WKCY WDAY  
 WBC WFLA WHAM WIBA WICD  
 WIS WJAX WJR WJZ WREN WSE  
 WSM WSYR WWNC

**C — News Service, See Monday**

**E-10:45 p. m., C-9:45, M-8:45, P-7:45**  
**C — Myrt and Marge, See Monday**

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

**C — Mary Eastman, Soprano**  
 CKLW KFH KLZ KMBC KSCJ KTRH  
 KTSa KVOR WAAB WABC WADC  
 WBRW WBT WCAH WCAO WDAE  
 WDBJ WDRC WDSU WEAN WFEA  
 WGST WHAS WHEC WHK WHP  
 WIBW WICC WISN WJAS WJSV  
 WKBW WLWB WLZ WMAS WMBD  
 WMBG WMT WODX WOKO WORC  
 WOV WPT WQAM WREC WSJS  
 WSPD WTOC

**E-11:15 p. m., C-10:15, M-9:15, P-8:15**  
**C — Boswell Sisters, See Monday**

**E-11:30 p. m., C-10:30, M-9:30, P-8:30**  
**C — Isham Jones, See Thursday**

**C — Edwin C. Hill, See Wednesday**

**SATURDAY**

**E-6:00 p. m., C-5:00, M-4:00, P-3:00**  
**C — Meet the Artists**

CFRB CKLW KFH KLRA KMBC  
 KOMA KSL KTRH KTSa KVOR  
 WAAB WABC WACO WADC WBBM  
 WBIG WBRC WCAO WCCO WDBJ  
 WDSU WFBL WFEA WGR WGST  
 WHAS WHEC WHK WHP WIBW  
 WICC WIP WISN WJAS WJSV WLAC  
 WLWB WLZ WMBG WMT WOKO  
 WQAM WREC WSBT WSFA WSJS  
 WTAQ WTAR WTOC WWVA

**R — Waldorf Astoria, See Monday**

**B — Trio Romantique**  
 KOIL KSO KWCR KYW WBAL WBZ  
 WBZA WKCY WHAM WJR WJZ  
 WMAAL WREN WSYR

**E-6:15 p. m., C-5:15, M-4:15, P-3:15**  
**C — Mildred Bailey, Songs**

CKAC CKLW KFAB KFH KLRA  
 KLZ KMBC KRLD KSL KTRH KTSa  
 KVOR WAAB WABC WACO WBIG  
 WBT WCAH WCAO WCCO WDAE  
 WDBJ WDRO WDOD WDRC WEAN  
 WFEA WGR WGST WHEC WHK  
 WHP WIBW WICC WIP WISN  
 WJAS WJSV WLAC WLWB WLZ  
 WMBG WMT WOKO WORC WQAM  
 WREC WSBT WSFA WSJS WSPD  
 WTAQ WTOC WWVA

**B — O'Leary's Irish Minstrels**  
 KOIL KSO KWCR KYW WBAL WBZ

WBZA WKCY WHAM WJR WJZ  
 WMAAL WREN WSYR

**E-6:30 p. m., C-5:30, M-4:30, P-3:30**  
**B — Mary Small, See Tuesday**

**C — Frederic William Wile**  
 CKLW KLRA WAAB WABC WBIG  
 WBRC WCAO WCAU WDAE WDBJ  
 WDOD WDOD WDRC WDSU WFBL  
 WFEA WGLC WGST WHEC WHP  
 WJSV WKBW WLAC WLWB WLZ  
 WMAS WMBG WOKO WORC WQAM  
 WREC WSJS WSPD WTAR WTOC

**R — Richard Himber and Orchestra**  
 KDYL KFI KFYR KGO KGW KHQ  
 KOA KOMO KPRC KSD KSTP KTBS  
 KTBS KVOO WCAE WDAF WDAY  
 WFAE WBC WFLA WHO WIBA  
 WIOD WIS WJAR WJAX WJDX  
 WKY WMAQ WMC WOAI WOC  
 WRC WSB WSM WTAG WTAM  
 WWJ WWNC

**E-6:45 p. m., C-5:45, M-4:45, P-3:45**  
**B — Flying with Capt. Al Williams**

WBAL WBZ WBZA WKCY WGAR  
 WHAM WJR WJZ WSYR

**R — J. C. Nugent—Male Quartet**  
 WCSH WFAE WELI WGY WJAR  
 WTAG

**E-7:00 p. m., C-6:00, M-5:00, P-4:00**  
**B — John Herrick, Baritone**

KDKA KOIL KSO KWCR KWK  
 WBAL WKCY WGAR WJZ WKBF  
 WMAAL WMAQ

**C — Elder Minchaux Congregation**  
 CFRB CKLW KFH KLRA KLZ  
 KSCJ KSL KTRH KTSa KVOR  
 WABC WACO WADC WBIG WBRC  
 WCAO WCAU WDAE WDBJ WDBO  
 WDOD WDRC WDSU WFBL WFEA  
 WGLC WGR WGST WHEC WHP  
 WIBW WICC WJAS WJSV WLWB  
 WLZ WMAS WMBG WMT WOKO  
 WORC WQAM WREC WSJS WSPD  
 WTAR WTOC WWVA

**E-7:15 p. m., C-6:15, M-5:15, P-4:15**  
**B — Dramatic Sketch, See Thursday**

**R — Religion in the News**  
 KFI KFYR KGO KGW KHQ KOA  
 KOMO KSD KTBS WAPI WBEN  
 WCAE WDAF WFAE WELI WFAP  
 WFBR WFI WFLA WGY WHO WIBA  
 WIOD WIS WJAR WJAX WLW  
 WMC WOAI WOC WRC WSM WSMB  
 WTAG WTAM

**E-7:30 p. m., C-6:30, M-5:30, P-4:30**  
**R — Circus Days, See Friday**

**C — Silver Dust, See Tuesday**  
**B — Eddie Duchin, See Thursday**

**E-7:45 p. m., C-6:45, M-5:45, P-4:45**  
**C — Tito Guizar, Tenor**

CKLW KFH KLRA KLZ KSCJ KSL  
 KTRH KTSa KVOR WABC WACO  
 WADC WBIG WBRC WCAH WCAO  
 WCAU WCCO WDAE WDBJ WDBO  
 WDOD WDRC WDSU WEAN WFBL  
 WFBM WFEA WGLC WGR WGST  
 WHAS WHEC WHK WHP WIBW  
 WICC WISN WJAS WJSV WLAC  
 WLWB WLZ WMAS WMBG WMT  
 WNAC WOKO WORC WQAM WREC  
 WSBT WSJS WSPD WTAR WTOC  
 WWVA

**E-8:00 p. m., C-7:00, M-6:00, P-5:00**  
**C — 45 Minutes in Hollywood**

CKLW KLZ KMBC KMOX KSL  
 KTAT KTRH KTSa WABC WACO  
 WBBM WCAH WCAO WCAU WCCO

**SATURDAY—(Cont'd)**

WDRC WEAN WFBL WGR WHEC  
WHK WJAS WJSV WKRC WNAC  
WOKO WRIL WSPD

**R — George Olsen and Orchestra**  
KDYL KFI KFYR KGO KGW KHQ  
KOA KOMO KPRC KSD KSTP KTBS  
KVOO KYW WBNB WBSH WDAF  
WEAF WEBC WEEI WFSR WFLA  
WGY WIBA WIOD WIS WJAR WJAX  
WJDX WOAI WOV WRC WSB WSM  
WSMB WTAG WTAM WWJ WWNC

**B — Economics in the New Deal**  
KOIL KSO KWCR WBAL WCKY  
WENI WHAM WJR WJZ WMAL  
WREN WSYR

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
**B — Boston Symphony Orchestra**  
CFRC CRCT KDYL KFI KFYR  
KGO KGW KHQ KOA KOMO KPRC  
KSO KSTP KTBS KWK WAPI  
WBAL WDAY WEBC WFLA WGAR  
WHAM WIBA WIOD WIS WJAX  
WJDX WJR WJZ WKY WMAL  
WMC WREN WRVA WSB WSM  
WSMB WSYR WWNC

**R — Sous Les Ponts de Paris**  
KSD KYW WREN WFSH WDAF  
WEAF WEEI WFSR WGY WJAR  
WOW WRC WTAG WTAM WWJ

**E-8:45 p.m., C-7:45, M-6:45, P-5:45**  
**C — Trade and Mark**  
CKLW KDB KERN KFBK KFPY  
KFRG KGB KHJ KLZ KMBC KMJ  
KMOX KOIN KOL KSL KVI KWG  
WAAB WABC WADC WBBM WCAO  
WCAU WCCO WDRC WEAN WHAS  
WHK WJAS WJSV WKBW WKRC

**E-9:00 p.m., C-8:00, M-7:00, P-6:00**  
**R — Metropolitan Opera**  
KDYL KFSF KFYR KGO KGU KGW  
KHQ KOA KOMO KPRC KSD KSTP  
KTAR KTBS KTHS WAPI WBAP  
WBEN WCAE WFSH WDAF WDAY  
WEAF WEBC WEEI WFSR WFI  
WFLA WGY WIBA WIOD WIS WJAR  
WJAX WJDX WKY WLW WMAQ  
WMC WOAI WOW WRC WRVA WSB  
WSMB WTAG WTAM WTMJ WWJ  
WWNC

**C — Philadelphia Symphony, See Mon.**

**E-9:15 p.m., C-8:15, M-7:15, P-6:15**  
**C — Stoopnagle-Budd, See Wednesday**

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**C — Carborundum Band**  
CKLW KMBC KMOX WAAB WABC  
WBBM WBT WCAO WCAU WCCO  
WHAS WHK WJAS WKBW WKRC

**E-10:00 p.m., C-9:00, M-8:00, P-7:00**  
**R — B. A. Rolfe and Orchestra**  
CRCT KDYL KFI KGO KGW KOA  
KOMO KSD KSTP WBAP WBEN  
WCAE WFSH WDAF WEAF WEEI  
WFSR WFI WGY WHO WJAR WJAX  
WLW WMAQ WOAI WOC WOW  
WRC WRVA WSB WSMB WTAG  
WTAM WTMJ WWJ

**C — Byrd Expedition**  
CKLW KDB KERN KFBK KFH  
KFPY KFRG KGB KHJ KLR  
KMBC KMJ KMOX KOIN KOL  
KOMA KRLD KTRH KTSa KVI  
KWG WAAB WABC WACO WADC  
WBBM WBRG WBT WCAO WCAU  
WCCO WDAE WEAN WGST WHAS  
WHEC WHK WHP WIBW WJSV  
WKBW WKRC WLAC WLWB WMBG  
WMT WOKO WORC WQAM WRC

**E-10:15 p.m., C-9:15, M-8:15, P-7:15**  
**C — Choristers; 16 Male Voices**  
KDKA KOIL KWCR KWK KYW  
WBAL WBZ WBZA WCKY WGAR  
WHAM WJR WJZ WMAL WREN  
WSYR

**E-10:30 p.m., C-9:30, M-8:30, P-7:30**  
**B — F. O. B. Detroit**  
KDKA KOIL KWCR KWK KYW  
WBAL WBZ WBZA WCKY WGAR  
WHAM WJAR WJR WJZ WMAL  
WREN WSYR  
**C — News Service. See Monday**

**E-10:45 p.m., C-9:45, M-8:45, P-7:45**  
**C — H. V. Kallenborn**  
CFRB CKLW KLZ KMBC KOMA  
KRLD KSCJ KSL KTRH KTSa  
KVOR WAAB WABC WADC WBBJ  
WBRG WBT WCAH WCAO WDBJ  
WDRC WDSU WEAN WFBM WFEA  
WGST WHEC WHP WIBW WIP  
WISN WJAS WJSV WKBW WLWB  
WLWB WMAS WMBD WMBG WMT  
WODX WORC WPG WQAM WREC  
WSBT WSJS WSPD WTAQ WTOC  
WVVA

**E-11:00 p.m., C-10:00, M-9:00, P-8:00**  
**C — Guy Lombardo and Orchestra**  
CFRB CKLW KLRA KLZ KMBC  
KMOX KOMA KTRH KTSa KVOR  
WAAB WABC WADC WBBJ WBRG  
WCAO WCAU WCCO WDBJ WDSU  
WEAN WFBL WFBM WGST WHAS  
WHP WIBW WICC WISN WJAS  
WJSV WKBW WLAC WLWB WLWB  
WMBD WMBG WMT WOKO WPG  
WQAM WREC WSBT WSJS WTAQ  
WTOC

**R — One Man's Family—Sketch**  
CFRC KDYL KFI KFYR KGO KGW  
KHQ KOA KOMO KPO KPRC KSD  
KSTP KTBS KTHS KVOO WBNB  
WCAE WDAF WDAY WEAF WFSR  
WFI WFLA WGY WHO WIBA WIOD  
WIS WJAR WJAX WJDX WKY  
WMAQ WMC WOAI WOC WOW  
WRC WRVA WSAI WSB WSMB  
WTAG WTAM WWJ WWNC

**B — WLS Barn Dance**  
KDKA KOIL KSO KWCR KWK WBZ  
WBZA WGAR WHAM WJR WJZ  
WLS WLW WMAL WREN WSYR

**E-11:30 p.m., C-10:30, M-9:30, P-8:30**  
**C — Ted Fiorito and Orchestra**  
CFRB CKLW KLRA KLZ KMBC  
KOMA KSL KTRH KTSa KVOR  
WABC WADC WBRG WCAO WDBJ  
WDSU WEAN WFBL WFBM WGST  
WHEC WHIP WIBW WIP WISN  
WJSV WKBW WLAC WLWB WLWB  
WMBD WMBG WMT WNAC WOKO  
WPG WQAM WREC WSBT WSJS  
WTOC

**R — Hollywood on the Air**  
CFRC KDYL KFYR KOA KPO KPRC  
KSD KSTP KTBS KTHS KVOO  
WBEN WCAE WDAF WDAY WEAF  
WFSR WFI WFLA WGY WHO WIBA  
WIOD WIS WJAR WJAX WJDX  
WKY WMAQ WMC WOAI WOC  
WOW WRC WRVA WSAI WSB  
WSMB WTAG WTAM WWJ WWNC

**E-12:00 p.m., C-11:00, M-10:00, P-9:00**  
**C — Glen Gray and Orchestra**  
CKLW KFI KLZ KMBC KMOX  
KOMA KRLD KSCJ KTRH L TSA  
WABC WCAU WEAN WFBL WHAS  
WHP WIBW WICC WISN WJSV

WKBW WLWB WMAS WMBD  
WNAC WOKO WSBT WSPD  
**B — Freddie Martin and Orchestra**  
KOIL KSO KWCR KWK KYW WBAL  
WBZ WBZA WCKY WGAR WHAM  
WJZ WLW WMAL WREN WSYR

**E-12:30 a.m., C-11:30, M-10:30, P-9:30**  
**B — William Scotti and Orchestra**  
KDKA KOIL KSO KWCR KWK  
KYW WBAL WBZ WBZA WCKY  
WGAR WJR WJZ WLW WMAL  
WREN WSYR

**SUNDAY**

**E-11:15 a.m., C-10:15, M-9:15, P-8:15**  
**R — Major Bowes' Capitol Family**  
KDYL KFYR KOA KPRC KSTP  
KTBS KVOO WAPI WCAE WDAF  
WDAY WEAF WEBC WFAA WFSR  
WFLA WGY WHO WIOD WJAR  
WJAX WKY WMAQ WMC WOAI  
WOC WRC WRVA WSAI WSMB  
WTAG WTAM WWNC

**E-11:30 a.m., C-10:30, M-9:30, P-8:30**  
**C — Salt Lake Tabernacle Choir**  
CKLW KLRA KLZ KMBC KOMA  
KSL KTRH KTSa KVOR WABC  
WACO WADC WBBG WBRG WCAO  
WCCO WDBJ WDRC WDSU WEAN  
WFBL WFEA WGN WGR WGST  
WHAS WHEC WHP WIBW WICC  
WISN WJAS WJSV WLAC WLWB  
WMBD WMT WNAC WOKO WORC  
WPG WQAM WSBT WSFA WSJS  
WTAQ WTAQ WVVA

**E-12:15 p.m., C-11:15, M-10:15, P-9:15**  
**R — Morning Home Circle**  
WFSH WEAF WEEI WFSR WFI  
WJAR WRC WTAG

**E-12:30 p.m., C-11:30, M-10:30, P-9:30**  
**B — Radio City Concert**  
CFRC CRCT KDKA KDYL KFI  
KFYR KGO KGW KHQ KOA KOIL  
KOMO KPRC KSO KVOO WAPI  
WBAL WBZ WBZA WCKY WDAY  
WEBC WGAR WHAM WIS WJDX  
WJR WJZ WKY WMAL WOAI WREN  
WSMB WSYR WWNC

**R — Chicago Round Table**  
WBEN WFSH WDAF WEAF WEEI  
WFSR WFI WGY WHO WJAR  
WOC WOW WRC WSAI WTAG  
WTAM WWJ

**C — Madison Ensemble**  
CFRB CKLW KLRA KLZ KMBC  
KOMA KSL KTRH KVOR WACO  
WADC WBBG WBRG WCAU WDBJ  
WDRC WDSU WEAN WFBL WFEA  
WGR WGST WHAS WHEC WIBW  
WISN WJAS WJSV WLAC WLWB  
WMBD WMT WNAC WOKO WPG  
WQAM WREC WSBT WSJS WTAQ  
WTAQ WTOC WVVA

**E-1:00 p.m., C-12:00, M-11:00, P-10:00**  
**C — Church of the Air**  
CFRB CKLW KLRA KLZ KOMA  
KTRH KTSa KVOR WAAB WABC  
WACO WADC WCCO WDBJ WDRC  
WDSU WFBL WGR WGST WHAS  
WHEC WHIP WIBW WJAS WJSV  
WLAC WLWB WMT WOKO WPG  
WQAM WRDC WSBT WSJS WTAQ  
WTAQ WTOC WVVA  
**R — Russian Symphonic Choir**  
WBEN WCAE WDAF WEAF WEEI  
WFI WGY WHO WJAR WLW WMAQ  
WOC WRC WSAI WTAG WTAM  
WWJ

**SUNDAY—(Continued)**

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

**R—Little Known Facts**  
WBN WGSN WEAF WEEI WFI  
WGYY WJAR WTAG WTAM WWJ  
**B—National Youth Conference**  
KDKA KFI KFSD KFYY KGH  
KGIR KGO KGW KHQ KOA KOIL  
KOMO KPRC KSO KTAR KTBS  
KVOO KWCR KWK WAPI WBAL  
WBZ WBZA WDAY WEBC WFAA  
WGAR WIBA WIOD WIS WJAX  
WJDX WJR WJZ WMAL WOA  
WREN WRVA WSB WSM WSMB  
WSYR WUNC

**C—Lazy Dan, Minstrel Man**  
CKLW KMBC KMOX KRLL WABC  
WBMM WCAH WCAU WCCO  
WHAS WHK WJAS WJSY WKBW  
WKRC WMBG

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

**C—Broadway Melodies; Helen Morgan**  
CFRB CKLW KDB KFPP KFRC  
KGB KHJ KLZ KMBC KMOX KOIN  
KOL KRLL KSL KVI WABC WBMM  
WCAO WCAU WCCO WDSU WHK  
WJAS WJSV WKBW WKRC WLAC  
WYAC

**R—Gene Arnold and Comedores**  
KDYL KFI KGO KGW KHQ KOA  
KOMO KPRC KVOO WBN WCAE  
WCSH WEAF WEBC WEEI WFAA  
WFBR WGY WIBA WJAR WKY  
WLW WMAQ WOA W WPTF  
WRC WRVA WTAG WTAM WWJ  
WUNC

**B—Bar X Days and Nights**  
CFRC CRCT KDKA KOIL KSO  
KWCR KWK KYW WBAL WBZ  
WBZA WCKY WFLA WJAR WJZ  
WMAL WREN WSYR

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

**C—Abe Lyman's Orchestra**  
CFRB CKLW KMBC KMOX WABC  
WBMM WCAO WCAU WCCO WDR  
WEAN WFBL WFBM WHEC WHK  
WJSV WKBW WKRC WNAO WOKO  
**B—Grenadier Guards Band**  
CFRC CRCT KDKA KOIL KSO  
KWCR KWK WAPI WBAL WBZ  
WBZA WCKY WFLA WJAR WHAM  
WIOD WIS WJAX WJDX WJR WJZ  
WMAL WMC WK WSB WSM  
WSMB WSYR WUNC

**R—Elizabeth Lennox, Contralto**  
WBN WDAF WFAF WEEI WFB  
WGY WJAR WOV WRC WSAI  
WTAG WTAM WWJ

**E-2:45 p.m., C-1:45, M-12:45, P-11:45**

**R—Gems of Melody; Muriel Wilson**  
WBN WCAE WCSH WDAF WFAF  
WEEI WFBR WGY WHO WJAR  
WMAQ WOC WOV WRC WSAI  
WTAG WTAM WWJ

**E-3:00 p.m., C-4:00, M-1:00, P-12:00**

**C—New York Philharmonic Orch.**  
CFAC CFBO CFCE CFCH CFEN  
CFCO CFYC CFJC CFNB CFFL  
CFQC CHAB CHGS CHNS CHRC  
CHWC CHWK CJCA CJCB CJCJ  
CJXC CJOC CJRM CJRW CKCH  
CKCK CKNC CKOC CKOV CKPC  
CKPR CKUA CKX CKY CREA  
CROC CHGS CRCT CRCY CRFB  
CKLW KFH KLRA KLZ KMBC  
KMOX KOMA KSL KTRH KTSB  
KVOR WABC WADC WBIG WBR  
WCAO WCAU WCCO WDBJ WDR

WDSU WEAN WFBM WFEA WGN  
WGR WGST WHAS WHC WHK  
WHP WIBW WICC WIP WISN WJAS  
WJSV WLAC WLWB WMBD WMBG  
WMT WNAO WOKO WORC WQAM  
WRC WSBT WSJS WTAQ WTAR  
WTOC WVA

**R—Wayne King and Orchestras**  
KDYL KFI KGO KGW KHQ KOA  
KOMO KPRC KSD KSTP KVOO  
WBN WCAE WCSH WDAF WFAF  
WEEI WFAA WGY WHO WJAR  
WKB WKY WLIT WLS WLW  
WOAI WOC WOV WRC WTAG  
WTAM WTMJ WWJ

**B—International Tid-bits**  
CFRC CRCT KDKA KOIL KSO  
KWCR KWK WAPI WBAL WBZ  
WBZA WCKY WFLA WJAR WHAM  
WIOD WIS WJAX WJDX WJR WJZ  
WMAL WMC WRVA WSB WSM  
WSMB WSYR WUNC

**E-3:15 p.m., C-2:15, M-1:15, P-12:15**

**B—Irene Rich in Hollywood**  
KDKA WBAL WBZ WBZA WCKY  
WJAR WHAM WJR WJZ WMAL  
WMAQ WMC WSB WSM WSMB  
WSYR

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

**R—Spartan Trifolians**  
KSD KYW WBN WCAE WCSH  
WDAF WFAF WFBR WGY WJAR  
WLIT WOV WRC WSAI WTAG  
WTAM WWJ

**B—Yeast Foamers; Jan Garber**  
KDKA KDYL KFI KFSD KFYY  
KGHG KGIR KGO KGW KHQ KOA  
KOIL KOMO KPRC KSO KTAR  
KTBS KTHS KVOO KWCR KWK  
KYW WAPI WBAL WBZ WBZA  
WDAY WEBC WFAA WFLA WJAR  
WHAM WIBA WIOD WIS WJAX  
WJDX WJZ WKB WKY WLW  
WMAL WMC WPTF WREN WRVA  
WSB WSM WSMB WSYR WTMJ  
WUNC

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

**R—Fiddlers Three**  
CFRC CRCT KDYL KFI KFSD  
KFYY KGO KGW KHQ KOA KOMO  
KSD KSTP KTAR KTBS KYW  
WAPI WBN WCAE WDAF WDAY  
WFAF WEBC WEEI WFLA WGY  
WHO WIBA WIOD WIS WJAR  
WJDX WKY WLIT WOA WOC  
WOW WRC WRVA WSAI WSB WSM  
WTAG WTAM WWJ WUNC

**Rev. Charles E. Coughlin**  
KMOX KSTP KYW WCAO WCAU  
WDR WEAN WFBL WFEA WGAR  
WGR WHB WHO WICC WJAS WJR  
WLZ WLW WMA WNAO WOC  
WOL WOR WORC WCKY WOKO

**B—Dion Kennedy, Organist**  
KDKA KDYL KFI KFYY KGHG  
KGIR KGO KGW KHQ KOA KOIL  
KOMO KPRC KSO KTBS KTHS  
KVOO KWCR KWK WAPI WBAL  
WBAP WBZ WBZA WDAY WEBC  
WFLA WHAM WIBA WIOD WIS  
WJAX WJDX WJZ WKB WKY  
WLS WMAL WMC WOA WPTF  
WREN WRVA WSB WSM WSMB  
WSYR WUNC

**E-4:15 p.m., C-3:15, M-2:15, P-1:15**

**R—Wildroot; Vee and Johnny**  
KDYL KFI KFYY KGO KGW KHQ  
KOA KOMO KPRC KTBS KVOO  
WBN WCAE WCSH WDAF WDAY  
WFAF WEBC WEEI WFAA WFB

WGY WIBA WJAR WKY WLIT WL  
WOAI WOV WRC WSAI WTAG  
WTAM WTMJ WWJ  
**B—Morin Sisters, Harmony Trio**  
CFRC CRCT KDKA KOIL KSO  
KWCR KWK KYW WBAL WBZ  
WBZA WCKY WFLA WJAR WHAM  
WIOD WJAX WJDX WJR WJZ WL  
WMAL WREN WRVA WSB WSM  
WSYR WUNC

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

**R—Hoover Sentinels**  
CFRC CRCT KDYL KFI KGO KGW  
KHQ KOA KOMO KPRC KVOO  
WBAP WBN WCAE WCSH WDAF  
WFAF WEBC WEEI WFB WFI  
WGY WIBA WJAR WKY WMAQ  
WOAI WOV WRC WTAG WTAM  
WWJ

**B—Princess Pat Pageant**  
KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WENR WHAM  
WJZ WMAL WREN WSYR

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

**C—Roses and Drums, Drama**  
CKLW KFAB KLRA KLZ KMBC  
KMOX KOMA KRLL KTRH KTSB  
WAAB WABC WADC WBBM WBR  
WCCO WDSU WGST WHAS WHK  
WJAS WJSV WKRC WLEC

**R—Big Ben Dream Drama**  
WBN WCAE WCSH WDAF WFAF  
WEEI WFB WGY WJAR WMAQ  
WOW WRC WSAI WTAG WTAM  
WWJ

**B—National Vespers**  
KDYL KECA KFSD KFYY KGH  
KGIR KGO KGW KHQ KOA KOIL  
KPRC KSO KSTP KTAR KTBS  
KVOO KWCR KWK WAPI WBAL  
WBZ WBZA WCL WCKY WDAY  
WEBC WFLA WJAR WHAM WIBA  
WIOD WIS WJAX WJDX WJR WJZ  
WKY WMAL WMC WOA WPTF  
WREN WRVA WSB WSM WSMB  
WSYR WUNC

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

**R—Achievements in Science, Drama**  
CFRC CRCT WBN WCAE WCSB  
WDAF WFAF WENR WFB WGY  
WJAR WOV WRC WSAI WTAG  
WTAM WWJ

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

**C—Frank Crumit; Julia Sanderson**  
CKLW KFAB KFH KMBC KMOX  
KOMA WAAB WABC WADC WCAH  
WCAO WCAU WDR WDSU WEAN  
WFBL WFBM WGR WHEC WHK  
WICC WJSV WMA WOKO WORC  
WSPD WTAG WVA

**R—Talkie Picture Time—Sketch**  
WCAE WCSH WDAF WFAF WEEI  
WFB WFI WGY WJAR WMAQ  
WMC WOV WRC WSAI WSM WTAG

**B—Grand Hotel—Drama**  
KDKA KDYL KFI KGO KGW KHQ  
KOA KOIL KOMO KSO KSTP KWCR  
KWK WBAL WBZ WBZA WCKY  
WEBC WENR WJAR WHAM WJR  
WJZ WKB WMA WLN WREN WSYR  
WTMJ

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

**C—Jacques Renard's Orchestra**  
CKLW KMBC KMOX WABC WBBM  
WCAO WCAU WCCO WFBM WGR  
WHEK WJAS WJSV WKRC

**R—Catholic Hour**  
KDYL KECA KFYY KGHG KGIR  
KGW KOA KOMO KPO KPRC  
KSTP KTAR KTBS KVOO WAPI  
WBAP WBN WCAE WCSH WDAF

**SUNDAY—(Continued)**

WDAY WEAF WECB WEEI WENR  
 WFBR WFLA WGY WHO WIBA  
 WIOD WIS WJAR WJAX WJDX  
 WKY WLIT WMC WQAI WOC WOW  
 WRC WRVA WSAI WSB WSM  
 WSMB WTAG WTAM WTVJ WNNC  
**B—Cadillac Concert**  
 KDKA KOIL KSO KWCR KWK  
 WBAL WBZ WBZA WENR WGAR  
 WHAM WJR WJZ WLW WMAL  
 WREN WSYR

**E-8:30 p.m., C-5:30, M-4:30, P-3:30**

**C—Smiling Ed McConnell**  
 CKLW KDB KERN KFAB KFBK  
 KFH KFPY KFCR KGB KHJ KLZ  
 KMCB KMOX KOIN KOL KRLL  
 KSL KVI KWG WAAB WABC WBBM  
 WBT WCAH WCAU WCCO WDSU  
 WEAN WFBL WHAS WHIEC WHP  
 WJAS WJSV WKWB WKRC WLAC  
 WMT WOKO WQAM WSPD WTAR  
 WVVA

**R—Our American Schools**

CFCC CRCT KDYL KECA KFSB  
 KFYR KGW KOMO KPO KPRC KSD  
 KSTP KTRT KTBS KVOO WAPI  
 WBAP WBEN WCAE WCSH WDAF  
 WDAY WEAF WECB WEEI WFBR  
 WFLA WGY WHO WIBA WIOD  
 WJAR WJAX WJDX WKY WLIT  
 WMAQ WMC WOAI WOC WRC  
 WRVA WSAI WSB WSM WSMB  
 WTAG WTAM WTVJ WNNC

**E-8:45 p.m., C-5:45, M-4:45, P-3:45**

**C—Charles Carlisle, Tenor**  
 CKLW KDB KERN KFBK KFPY  
 KFCR KGB KHJ KLRA KLZ KMBC  
 KMJ KMOX KOIN KOL KSL KVI  
 KWG WAAB WABC WADC WBBM  
 WBIG WBRC WCAU WCAU WCCO  
 WDAE WDBC WDRC WDSU WEAN  
 WGST WHAS WHK WHP WJAS  
 WJSV WKWB WKWB WKRC WPG  
 WWSJ WTAR WTOC

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

**R—True Story Court**  
 WBEN WCAE WCSH WDAF WFBR  
 WGY WJAR WMAQ WOF WRC  
 WSAI WTAG WTAM WTVJ

**C—Ethel Waters; George Beatty**

WABC WBT WCAO WCAU WDAE  
 WDBO WDBC WEAN WFEA WGST  
 WHK WJAS WJSV WKRB WLZ  
 WNAK WPG WQAM WTAR WVVA

**B—Realsilk; Ted Weems' Orchestra**

KDKA KDYL KFI KGO KGW KHQ  
 KQA KOIL KOMO KSO KWCR KWK  
 WBAL WBZ WBZA WFLA WGAR  
 WHAM WIS WJR WJZ WLS WLW  
 WMAL WPTF WREN WRVA WSYR

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

**B—Ozzie Nelson; Joe Penner**  
 KDKA KDYL KFI KFYR KGO KGW  
 KHQ KOA KOIL KOMO KPRC KSO  
 KSTP KTRT KTVU KWCR KWK  
 WBAL WBZ WBZA WDAY WFCB  
 WFAA WFLA WGAR WHAM WIBA  
 WIOD WJAX WJDX WJR WJZ WKY  
 WLS WLW WMAL WMC WOAI  
 WPTF WREN WRVA WSB WSM  
 WSMB WTMJ WNNC

**C—H. V. Kaltenborn**

CKLW KFH KLRA KLZ KOMA  
 KSCJ KTRH KTRH KTRH KTRH  
 WBRC WCAH WCAU WDAE WDAE  
 WDBJ WDBO WDOD WDRC WDSU  
 WEAN WFEA WGLD WGR WGST  
 WHAS WHEC WHP WIBW WISN

WJAS WKBN WLZ WMAS WOKO  
 WORC WQAM WSBT WSJS WSPD  
 WTAR WTOC WVVA

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

**C—Rin Tin Tin Thriller**  
 CKLW KMOX WABC WCAU WFBL  
 WFBM WGR WGR WHAS WHK  
 WJAS WJSV WKRC WNAK

**R—Fitch Program; Wendell Hall**

CFCC KSD WBFN WCAE WCSH  
 WDAF WEAF WFBR WGY WHO  
 WJAR WLIT WMAQ WOC WOW  
 WRC WSAI WTAM WTVJ WNNC

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

**R—Chase and Sanborn Hour**  
 CFCC CRCT KDYL KFI KFYR KGO  
 KGW KHQ KOA KOMO KPRC KSD  
 KSTP KTRT KTRH KTVU WBBN  
 WCAE WCSH WDAF WDAY WEAF  
 WECB WFAA WFBR WFLA WGY  
 WHO WIOD WIS WJAR WJAX  
 WJDX WKY WLIT WLW WMAQ  
 WMC WOAI WOC WOW WPTF WRC  
 WRVA WSB WSM WSMB WTAG  
 WTAM WTVJ WTMJ WTVJ WNNC

**C—Evening in Paris**

CKLW KLZ KMBC KMOX KOMA  
 KSL WABC WADC WBBM WCAO  
 WCAU WCCO WDSU WEAN WFBL  
 WFBM WGR WGST WHAS WHK  
 WJAS WJSV WKRC WOKO WSPD

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

**C—Ford; Fred Waring's Orchestra**  
 CFRB CKAC CKLW KFAB KFH  
 KLRA KLZ KMBC KMOX KOH  
 KOMA KRLL KSL KTRH KTSA  
 KVOR WAAB WABC WACO WADC  
 WBBM WBIG WBRB WBT WCAH  
 WCAO WCAU WCCO WDAE WDBJ  
 WDBO WDOD WDRC WDSU WEAN  
 WFBL WFBM WFEA WGST WHAS  
 WHFC WHK WHP WIBW WICC  
 WISN WJAS WJSV WKBN WKWB  
 WKRC WLAC WLW WLZ WMAS  
 WMBD WMHG WMT WOKO WORC  
 WOWO WPG WQAM WRCC WSPA  
 WSPD WTAR WTAR WTOC WVVA

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

**C—Erno Rapee; Nino Martini**  
 CKLW KDB KERN KFBK KFPY  
 KFCR KGB KHJ KLRA KLZ KMBC  
 KMJ KMOX KOIN KOL KOMA  
 KRLL KSCJ KSL KTRH KVI KWG  
 WABC WADC WBBM WCAO WCAU  
 WCCO WDRB WDSU WEAN WFBL  
 WFBM WGR WGST WHAS WHK  
 WISN WJAS WJSV WKRC WMT  
 WNAK WNAX WOKO WORC WOWO  
 WREC WSPD WTAR

**R—Manhattan Merry-Go-Round**

KDYL KFI KGO KGW KHQ KOA  
 KOMO KSD WDAF WEAF WFBR  
 WFI WGY WHO WJAR WMAQ WOC  
 WOW WRC WSAI WTAM WTVJ  
 WNNC

**B—Gulf Headliners**

KAKA KPRC KTBS WBAL WBZ  
 WBZA WFAA WFLA WGAR WHAM  
 WIOD WIS WJAX WJDX WJR WJZ  
 WLW WMAL WMC WOAI WRVA  
 WSB WSM WSMB WSYR WNNC

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

**R—Album of Familiar Music**  
 CFCC CRCT KDYL KFI KGO KGW  
 KHQ KOA KOMO KPRC KSTP  
 WAPI WBEN WCAE WCKY WCSH  
 WDAF WEAF WEEI WFBR  
 WFI WFLA WGY WHO WIOD WJAR  
 WJAX WJDX WKY WMAQ WMC  
 WOAI WOC WOW WPTF WRC

WRVA WSAI WSB WSM WSMB

WTAG WTAM WTMJ WTVJ

**B—Walter Winchell**

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

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

**B—Gould and Shelter Piano Duo**

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

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

**R—Chevrolet; Jack Benny**

KDYL KFI KFSB KFYR KGHL  
 KGIR KGO KGW KHQ KOA KOMO  
 KPRC KSTP KTRT KTBS WAPI  
 WBAP WBEN WCAE WCSH WDAF  
 WDAY WEAF WECB WEEI WFBR  
 WFI WFLA WGY WIBA WIOD WIS  
 WJAR WJDX WKY WMAQ WMC  
 WMOI WOW WRC WRVA WSB WSM  
 WSMB WTAG WTAM WTVJ WTMJ  
 WTVJ WNNC

**C—Patric's Childhood Dramas**

CKLW KDB KERN KFBK KFPY  
 KFCR KGB KHJ KLZ KMBC KMJ  
 KMOX KOIN KOL KSL KVI KWG  
 WAAB WABC WCAO WCAU WCCO  
 WDAE WDBJ WDBO WDOD WDRC  
 WDRB WFLB WGR WJAS WHK  
 WJAS WJSV WKRC WOKO

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

**R—Hall of Fame**

KDYL KFI KGO KGW KHQ KOA  
 KOMO KPRC KTBS KTHS WAPI  
 WBAP WBEN WCAE WCSH WDAF  
 WEAF WEEI WFBR WFI WGY  
 WJAR WJDX WKY WLW WMAQ  
 WMC WOAI WOW WRC WSM  
 WTAG WTAM WTVJ WTVJ

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

**C—Little Jack Little and Orchestra**

CFRB CKAC CKLW KFH KLRA  
 KLZ KTRH KTSA KVOR WABC  
 WACO WBIG WBRB WCAH WCAO  
 WDAE WDBJ WDBO WDOD WDRC  
 WDSU WEAN WGST WHAS WHEC  
 WHP WICP WIP WISN WJAS WJSV  
 WKBN WLAC WLWV WMAS WMBD  
 WNAC WODX WOKO WPG WQAM  
 WREC WESA WSJS WSPD WTAR  
 WTOC

**B—John Fogarty, Tenor**

KDKA KGHL KOIL KSO KWCR  
 KWK WBAL WBZ WBZA WCKY  
 WGAR WJR WJZ WLW WREN

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

**B—Walter Winchell**

KDYL KFI KFSB KGHL KGIR  
 KGO KGW KHQ KOA KOMO KPRC  
 KTRT KTBS KTHS WAPI WBAP  
 WJDX WKY WMC WOAI WSB WSM  
 WSMB

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

**C—Leon Belasco and Orchestra**

CFRB CKLW KFH KLZ KOMA  
 KSCJ KTRH KTSA KVOR WABC  
 WADC WBRB WBT WCAH WCAO  
 WCAU WDAE WDBJ WDRB WDSU  
 WEAN WFBL WFBM WGR WGST  
 WHEC WHK WHP WIBW WICC  
 WISN WJAS WJSV WKBN WLZ  
 WMAS WMBD WMT WNAK WOKO  
 WQAM WREC WSBT WSJS WSPD  
 WTOC

**B—Paul Whiteman and Orchestra**

KDKA KFYR KOIL KSO KSTP  
 KWCR KWK WBAL WBZ WBZA  
 WCKY WDAY WFCB WGAR WIBA  
 WJR WJZ WLW WREN

# CLASSIFIED INDEX TO CHAIN PROGRAMS

*Time in Eastern Standard*

## CONCERTS

Arceo Ironmaster Program, 10:00 p.m., Friday, B.  
 Boston Symphony, 8:30 p.m., Saturday, B  
 Cadillac Concert, 6:00 p.m., Sunday, B.  
 Hoover Sentinels, 4:30 p.m., Sunday, R.  
 Metropolitan Opera, 9:00 p.m., Saturday, R.  
 New York Philharmonic Symphony, 3:00 p.m., Sunday, C.  
 Philadelphia Symphony, 9:00 p.m., daily, except Sunday, C.  
 Roxy Concert, 12:30 p.m., Sunday, B.  
 Russian Symphonic Choir, 1:00 p.m., Sunday, R.  
 Sous Les Ponts de Paris, 8:30 p.m., Saturday, R.  
 Albert Spalding, 8:30 p.m., Wednesday, C  
 Trio Romantique, 6:00 p.m., Saturday, B.  
 Waldorf-Astoria, 6:00 p.m., daily, except Sunday, R.

## DANCE BANDS

Leon Belasco, 11:30 p.m., Sunday, C.  
 Ben Bernie, 9:00 p.m., and 12 Mid., Tuesday, R.  
 Don Bestor, 8:00 p.m., Friday, B.  
 Jack Denny, 7:00 p.m., Sunday, C.  
 Eddie Duchin, 7:30 p.m., Thurs. and Sat. B.  
 Ted Fiorito, 11:00 p.m., Wed.; 11:30 p.m., Sat., C.  
 Jan Garber, 3:30 p.m., Sunday, B.  
 Glen Gray, 10:00 p.m., Tues. and Thurs., C; 11:30 p.m.,  
 Wed.; 12 mid., Sat., C.  
 Phil Harris, 7:45 p.m., Tues.; 9:00 p.m., Fri., B.  
 Richard Himber, 6:00 p.m., Tues.; 9:30 p.m., Thurs., B;  
 6:30 p.m., Saturday, R.  
 Isham Jones, 9:30 p.m., Mon.; 11:15 p.m., Wed.; 11:30  
 p.m., Tues. and Fri., C.  
 Henry King, 6:00 p.m., Thursday, B.  
 Wayne King, 3:00 p.m., Sun.; 8:30 p.m., Tues. and Wed., R;  
 10:00 p.m., Monday, C.  
 Enoch Light, 6:30 p.m., Mon. and Wed., C.  
 Guy Lombardo, 9:30 p.m., Wed.; 11:00 p.m., Sat., C.  
 Abe Lyman, 2:30 p.m., Sun.; 11:30 p.m., Mon., C; 9:00 p.m.,  
 Fri., R.  
 Freddie Martin, 12:00 mid., Saturday, B.  
 Benny Meroff, 10:00 p.m., Wednesday, B.  
 Ozzie Nelson, 7:30 p.m., Sun., B; 11:30 p.m., Tues., C.  
 George Olsen, 8:00 p.m., Saturday, R.  
 Raymond Paige, 9:30 p.m., Thursday, C.  
 Leo Reisman, 8:00 p.m., Tuesday, R.  
 Jacques Renard, 6:00 p.m., Sunday, C.  
 B. A. Rolfe, 10:00 p.m., Saturday, R.  
 Nat Shilkret, 8:45 p.m., Tuesday, B.  
 Rudy Vallee, 8:00 p.m., Thursday, R.  
 Fred Waring, 8:30 p.m., Sunday, C.  
 Mark Warnow, 10:45 p.m., Thursday, C.  
 Ted Weems, 7:00 p.m., Sunday, B.  
 Paul Whiteman, 10:00 p.m., Thursday, R.

## DIALOG

Fred Allen, 9:30 p.m. and 12:30 a.m., Wednesday, R.  
 Ames 'n' Andy, 7:00 and 11:00 p.m., daily, except Sat. and  
 Sun., B.  
 Phil Baker, 9:30 p.m., Friday, B.  
 Jack Benny, 10:00 p.m., Sunday, R.  
 Burns and Allen, 9:30 p.m., Wednesday, C.  
 Olsen and Johnson, 10:00 p.m., Friday, C.  
 Jack Pearl, 8:00 p.m., Wednesday, R.  
 Joe Penner, 7:30 p.m., Sunday, B.  
 Potash and Perlmutter, 7:30 p.m., Mon., Wed., Fri., B.  
 Stoopnagle and Budd, 9:15 p.m., Wed. and Sat., C.  
 Ed Wynn, 9:30 p.m., Tuesday, R.

## DRAMA

Bar X Days, 2:00 p.m., Sunday, B.  
 Billy Batchelor, 7:15 p.m., daily, ex. Sat. and Sun., R.  
 Bobby Benson, 6:15 p.m., daily, except Sat. and Sun., C.  
 Big Ben, 5:00 p.m., Sunday, R.  
 Cruise of Seth Parker, 10:00 p.m., Tuesday, R.  
 Dangerous Paradise, 8:30 p.m., Wed. and Fri., B.  
 Death Valley Days, 9:00 p.m., Thursday, B.  
 Dramatic Sketch, 7:15 p.m., Thurs. and Fri., B.  
 Eno Crime Clues, 8:00 p.m., Tues. and Wed., B.  
 First Nighter, 10:00 p.m., Friday, R.  
 Goldbergs, 7:45 p.m., daily, ex. Sat. and Sun., R.  
 Grand Hotel, 5:30 p.m., Sunday, B.  
 Just Plain Bill, 7:15 p.m., daily, ex. Sat. and Sun., C.

Kay Seven, 10:30 p.m., Monday, R.  
 Warden Lawes, 9:00 and 11:15 p.m., Wednesday, B.  
 Little Italy, 6:45 p.m., Tues. and Thurs., C.  
 March of Time, 8:30 p.m., Friday, C.  
 Myrt and Marge, 7:00 and 10:45 p.m., daily, ex. Sat. and  
 Sun., C.  
 One Man's Family, 11:00 p.m., Saturday, R.  
 Princess Pat Pageant, 4:30 p.m., Sunday, B.  
 Red Davis, 8:45 p.m., Mon., Wed., Fri., B.  
 Irene Rich, 3:45 p.m., Sun.; 7:45 p.m., Wed., B.  
 Rin Tin Tin Thriller, 7:45 p.m., Sunday, C.  
 Buck Rogers, 6:00 p.m., Mon. to Thurs., inc., C.  
 Romances of Science, 5:15 p.m., Sunday, R.  
 Roses and Drums, 5:00 p.m., Sunday, C.  
 Scott's Circus Days, 7:30 p.m., Fri. and Sat., R.  
 Soconyland Sketches, 8:00 p.m., Monday, R.  
 Talkie Picture Time, 5:30 p.m., Sunday, R.  
 True Story Court, 7:00 p.m., Sunday, R.

## PIANO AND ORGAN

Fray and Braggiotti, 8:45 p.m., Tuesday, C.  
 Archer Gibson, 10:30 p.m., Thursday, B.  
 Gould and Shelter, 9:45 p.m., Sunday, B.  
 Dion Kennedy, 4:00 p.m., Sunday, B.  
 Ohman and Arden, 9:30 p.m., Sunday, R.

## POPULAR PROGRAMS

A. & P. Gypsies, 9:00 p.m., Monday, R.  
 Album of Familiar Music, 9:30 p.m., Sunday, R.  
 American Revue, 7:00 p.m., Sunday, C.  
 Armour Program, 9:30 p.m., Friday, B.  
 Major Bowes, 11:15 a.m., Sunday, R.  
 Broadway Melodies, 2:00 p.m., Sunday, C.  
 Buiek Program, 9:15 p.m., Mon. and Thurs., C.  
 Byrd Expedition, 10:00 p.m., Saturday, C.  
 California Melodies, 9:30 p.m., Thursday, C.  
 Camel Program, 10:00 p.m., Tues. and Thurs., C.  
 Carborundum Band, 9:30 p.m., Saturday, C.  
 Chase and Sanborn, 8:00 p.m., Sunday, R.  
 Cheerio, 6:45 p.m., Tuesday, R.  
 Chevrolet Program, 10:00 p.m., Sunday, R.  
 Cities Service, 8:00 p.m., Friday, R.  
 Contented Program, 10:00 p.m., Monday, R.  
 Corn Cob Pipe Club, 10:00 p.m., Wednesday, R.  
 Del Monte Ship of Joy, 9:30 p.m., Monday, R.  
 Evening in Paris, 8:00 p.m., Sunday, C.  
 F. O. B. Detroit, 10:30 p.m., Saturday, B.  
 Fiddlers Three, 4:00 p.m., Sunday, R.  
 Fifth Program, 7:45 p.m., Sunday, R.  
 Fleischmann Hour, 8:00 p.m., Thursday, R.  
 Forty-Five Minutes in Hollywood, 8:00 p.m., Saturday, C.  
 Jack Frost's Melody, 9:30 p.m., Monday, B.  
 Grenadier Guards, 9:30 p.m., Sunday, B.  
 Gulf Headliners, 8:00 p.m., Sunday, B.  
 Hall of Fame, 10:30 p.m., Sunday, R.  
 Hollywood on the Air, 11:30 p.m., Saturday, R.  
 Household Musical, 9:00 p.m., Tuesday, B.  
 International Tid-Bits, 3:00 p.m., Sunday, B.  
 Ipana Troubadours, 9:00 p.m., Wednesday, R.  
 Manhattan Merry-Go-Round, 9:00 p.m., Sunday, R.  
 Maxwell House Showboat, 9:00 p.m., Thursday, R.  
 Mollie Show, 7:00 p.m., Mon. and Wed., R.  
 Music On the Air, 7:30 p.m., Mon., Wed. and Fri., C.  
 Nestle's Chocolaters, 8:00 p.m., Friday, B.  
 Old Gold, 10:00 p.m., Wednesday, C.  
 O'Leary's Irish Minstrels, 6:15 p.m., Saturday, B.  
 Pond's Program, 9:30 p.m., Friday, R.  
 Pontiac Program, 9:15 p.m., Wed. and Sat., C.  
 Real Silk Show, 7:00 p.m., Sunday, B.  
 Royal Gelatine, 8:00 p.m., Wednesday, R.  
 Sealed Power Side Show, 8:00 p.m. and 12 mid., Monday, B.  
 Seven Star Revue, 9:00 p.m., Sunday, C.  
 Sinclair Minstrels, 9:00 p.m., Monday, B.  
 Spartan Triolians, 3:30 p.m., Sunday, R.  
 Swift Revue, 10:00 p.m., Friday, C.  
 Texaco Fire Chief, 9:30 p.m., Tuesday, R.  
 U. S. Army Band, 6:00 p.m., Monday, B.  
 Voice of America, 8:30 p.m., Thursday, C.

Voice of Firestone, 8:30 and 11:30 p.m., Monday, R.  
 Wildroot Institute 4:15 p.m., Sunday, R.  
 WLS Barn Dance, 11:00 p.m., Saturday, B.  
 Yeast Foamers, 3:30 p.m., Sunday, B.

**RELIGIOUS**

Catholic Hour, 6:00 p.m., Sunday, R.  
 Church of the Air, 1:00 p.m., Sunday, C.  
 Elder Michaux, 7:00 p.m., Saturday, C.  
 Mid-Week Hymn Sing, 6:30 p.m., Tuesday, R.  
 National Vespers, 5:00 p.m., Sunday, B.  
 National Youth Conference, 1:30 p.m., Sunday, B.  
 Religion in News, 7:15 p.m., Saturday, R.  
 Salt Lake Choir, 11:30 a.m., Sunday, C.

**SINGERS**

Frances Alda, 7:45 p.m., Monday, B; 6:00 p.m., Tuesday, R.  
 Baby Rose Marie, 7:15 p.m., Monday, B.  
 Mildred Bailey, 6:45 p.m., Mon.; 6:15 p.m., Saturday, C.  
 Betty Barthell, 6:30 p.m., Tuesday, C.  
 Irene Beasley, 6:30 p.m., Monday and Friday, R; 6:30 p.m.,  
 Wednesday, B.

Boswell Sisters, 11:15 p.m., Monday and Friday, C.  
 Morton Bove, 7:45 p.m., Friday, B.  
 Dell Campo, 11:15 p.m., Tuesday, C.  
 Eddie Cantor, 8:00 p.m., Sunday, R.  
 Charles Carlisle, 6:45 p.m., Sunday, R; 11:15 p.m., Thurs., C.  
 Columbians, 8:00 p.m., Tuesday, C.  
 Richard Crooks, 8:30 and 11:30 p.m., every other Mon., R.  
 Bing Crosby, 8:30 p.m., Monday, C.  
 Jessica Dragonette, 8:00 p.m., Friday, R.  
 Morton Downey, 8:00 p.m., Thursday, C.  
 Mary Eastman, 11:00 p.m., Friday, C.  
 Evan Evans, 11:00 p.m., Monday, C.  
 John Fogarty, 11:00 p.m., Sunday, B.  
 Four Eton Boys, 9:30 p.m., Tuesday, C.  
 Jane Froman, 9:00 p.m., Sunday, C.  
 Connie Gates, 10:45 p.m., Thursday, C.  
 Alex Gray, 8:30 p.m., Thursday, C.  
 Tito Guizar, 12:30 p.m., Sunday; 6:30 p.m., Friday; 7:45  
 p.m., Saturday, C.

Wendell Hall, 7:45 p.m., Sunday, R.  
 Annette Hanshaw, 9:00 p.m., Thursday, R.  
 Happy Bakers, 8:00 p.m., Monday, Wednesday, Friday, C.  
 Harlem Serenade, 11:00 p.m., Tuesday, C.  
 John Herrick, 7:15 p.m., Wednesday; 7:00 p.m., Sat., B.  
 George Jessel, 9:30 p.m., Tuesday, C.  
 Theo. Karle, 6:45 p.m., Wednesday, C.  
 Frances Langford, 3:30 p.m., Sunday, R.  
 Lazy Dan, 1:30 p.m., Sunday, C.  
 Elizabeth Lennox, 2:30 p.m., Sunday, R.  
 Little Jack Little, 11:00 p.m., Sunday, C.  
 Howard Marsh, 9:15 p.m., Monday and Thursday, C.

John McCormack, 9:30 p.m., Wednesday, B.  
 Helen Morgan, 2:00 p.m., Sunday, C.  
 Morin Sisters, 4:15 p.m., Sunday, B.  
 Frank Munn, 9:30 p.m., Saturday; 9:00 p.m., Friday, R.  
 Edith Murray, 6:30 p.m., Thursday, C.  
 Gertrude Niesen, 9:30 p.m., Monday, C.  
 Viola Philo, 11:00 p.m., Thursday, R.  
 Virginia Rea, 9:30 p.m., Sunday, R.  
 Vivien Ruth, 8:00 p.m., Monday, Wednesday, Friday, C.  
 Sanderson-Crumit, 5:30 p.m., Sunday, C.  
 Ethel Shutta, 8:00 p.m., Friday, B.  
 Silver Dust Serenaders, 7:30 p.m., Tues., Thurs., Sat., C.  
 Sixteen Male Voices, 10:15 p.m., Sat., B.  
 Mary Small, 6:30 p.m., Saturday, B.  
 Smiling Ed McConnell, 6:30 p.m., Sunday, C.  
 Songs Mother Used to Sing, 6:00 p.m., Sunday, C.  
 Southernaires, 6:45 p.m., Thursday, R.  
 Irene Taylor, 10:00 p.m., Tuesday and Thursday, C.  
 Conrad Thibault, 8:30 p.m., Wed., C; 9:00 p.m., Thurs., R.  
 Lawrence Tibbett, 8:30 and 11:30 p.m., every other Mon., R.  
 Trade and Mark, 8:45 p.m., Saturday, C.  
 Cyrena Van Gordon, 8:30 p.m., Monday, B.  
 Vee and Johnny, 4:15 p.m., Sunday, R.  
 Ethel Waters, 7:00 p.m., Sunday, C.  
 Lee Wiley, 9:30 p.m., Friday, R.  
 Muriel Wilson, 2:45 p.m., Sunday, R.

**TALKS**

Back of the News, 6:30 p.m., Wednesday, R.  
 Dale Carnegie, 1:30 p.m., Sunday, R.  
 Boake Carter, 7:45 p.m., daily, ex. Sat. and Sun., C.  
 Chicago Round Table, 12:30 p.m., Sunday, R.  
 Columbia News Service, 10:30 p.m., daily, ex. Sunday, C.  
 Conclave of Nations, 10:30 p.m., Sunday, C.  
 Father Coughlin, 4:00 p.m., Sunday.  
 Economics in New Deal, 8:00 p.m., Saturday, B.  
 Flying Capt. Williams, 6:45 p.m., Saturday, B.  
 Edwin C. Hill, 8:15 daily, ex. Sat. and Sun.; 11:30 p.m.,  
 Wed., Thurs., Fri., C.  
 H. V. Kaltenborn, 7:30 p.m., Sunday; 6:00 p.m., Friday;  
 10:45 p.m., Saturday, C.  
 Andrew Kelly, 6:45 p.m., Monday, R.  
 John B. Kennedy, 6:30 p.m., Thursday, R.  
 Meet the Artist, 6:00 p.m., Saturday, C.  
 National Radio Forum, 10:30 p.m., Wednesday, R.  
 Our American Schools, 6:30 p.m., Sunday, R.  
 Patri's Childhood, 10:00 p.m., Sunday, C.  
 Radio in Education, 7:15 p.m., Tuesday, B.  
 Lowell Thomas, 6:45 p.m., daily, except Sat. and Sun., B.  
 Voice of Experience, 8:30 and 11:45 p.m., Tuesday, C.  
 Frederic William Wile, 6:30 p.m., Saturday, C.  
 Walter Winchell, 9:30 and 11:15 p.m., Sunday, B.  
 Alexander Woolcott, 9:15 p.m., Tuesday and Friday, C.

**KEY TO SYMBOLS**

As Shown in the Index by  
 Frequencies and Dial Numbers

Frequency is given in kilocycles; wavelength in meters. Night power is shown in watts  
 in (third) column. Daytime power is shown in parenthesis in fourth column in kilowatts, thus,  
 (25) indicating 250 watts. Some stations outside the United States use a "split frequency."  
 Their exact frequency is shown in fourth column. Time Zones: A—Atlantic, E—Eastern, C—  
 Central, M—Mountain, P—Pacific, L—Local. A. M. time is shown in light face type.

**Second Column Symbols**

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

**Fourth Column Symbols**

- B National "Blue" network.
- C Columbia network.
- D Daytime only.
- Dn Daytime with occasional evening hours.
- E Trans-Canada network.
- F Canadian Radio Brdctg. Commission.
- G All Canadian networks.

- H Yankee network.
- J Orange network.
- K Michigan network.
- L Canadian Pacific Ry. network.
- M Central Canada network.
- N National "Red" and "Blue" networks.
- P Has construction permit only.
- R National "Red" network.
- S Sunday only.
- Sy Synchronized.
- T Don Lee System.
- U Dixie network.
- V Maritime Broadcasting network.
- W All-Florida network.
- W Curtis-Indiana network.
- X Has permit to increase power.
- Y Has permit to change location.
- Z Has permit to change frequency.

a-b-c. Small letters show stations using same transmitter  
 1-2-3. Figures denote stations sharing time.  
 ..... No information.

# INDEX BY FREQUENCIES AND DIAL NUMBERS

With Tuesday's Time on the Air

KCYs.

600

DIAL

## 540 kilocycles 555.2 meters

CJRM	z	1000	F	Moose Jaw, Sask.	M
CJRW	ak	500	F	Fleming, Sask.	C-8:00-9:00; 10:00-10:45; 1:00-1:15; 2:15-2:30; 5:30-7:30
XBY	z	105	546.8	Merida, Yuc.	

## 550 kilocycles 545.1 meters

KFDY	ae	500	1 (1)	Brookings, S. D.	C-12:30-2:00
KFUO	ae	500	2 (1)	St. Louis, Mo.	C-7-8; 9:25-9:45; 12:15-12:45; 3-3:45; 10-11
KFYR	ah	1000	1N (2.5)	Bismarck, N. D.	C-7:00-12:30; 2:00-11:30
KOAC	ak	1000	.....	Corvallis, Ore.	P-6:30-4:00; 6:30-9:00
KSD	ak	500	2R	St. Louis, Mo.	C-8-9:25; 9:45-12:15; 12:45-3; 3:45-10; 11-mid.
TISO	ak	250	.....	San Jose, C. R.	C-10:00-1:00; 4:00-11:00
WDEV	ae	500	D	Waterbury, Vt.	E-7:30-10:00; 11:30-2:00; 3:00-7:00
WGR	ae	1000	C	Buffalo, N. Y.	E-7:30-mid.
WKRC	ak	1000	C	Cincinnati, Ohio.	E-7:00-1:00

## 560 kilocycles 535.4 meters

KFDM	ak	500	(1)	Beaumont, Texas.	C-7:00-10:00
KLZ	ak	1000	C	Denver, Colo.	M-6:45-11:30
KTAB	ak	1000	.....	San Francisco, Calif.	P-7:00-1:00
KTWO	ak	500	D	Springfield, Mo.	C-7:00-7:00
WFI	ae	500	1R (1)	Philadelphia, Pa.	E-6:45-9; 9:45-11; 1-2; 3-4:30; 6-mid.
WIND	ak	1000	C	Gary, Ind.	C-5:30-3:30
WLIT	ak	500	1R (1)	Philadelphia, Pa.	E-9-9:45; 11-1; 2-3; 4:30-6
WNOX	ae	1000	C (2)	Knoxville, Tenn.	C
WQAM	ae	1000	CW	Miami, Fla.	E-7:15-mid.
XEAO	ak	100	(.15)	Mexicali, B. C.	P-8:00-10:00

## 570 kilocycles 526.0 meters

FQN	z	250	572	St. Pierre, Miquelon, Isl.	A
KGKO	ak	250	(.5)	Wichita Falls, Texas.	C-7:00-10:00
KMTR	ak	500	.....	Hollywood, Calif.	P-6:00-12:15
KVI	ak	500	.....	Tacoma, Wash.	P-6:00-mid.
WKBN	ae	500	1C	Youngstown, Ohio.	E-7:30-9:00; 11:00-1:00; 3:00-mid.
WMCA	ak	500	.....	New York, N. Y.	E-8:00-1:00
WNAX	ak	1000	C (2.5)	Yankton, S. D.	C-6:00-mid.
WOSU	ae	750	1 (1)	Columbus, Ohio.	E-9-11; 1-3
WSYR	ak	250	B	Syracuse, N. Y.	E-7:30-1. (WSYU)
WYNC	ae	1000	N	Asheville, N. C.	E-8:00-1:00

## 580 kilocycles 516.9 meters

CKCL	aj	100	M	Toronto, Ont.	E-8:00-11:30 (CFCL)
CKUA	ak	500	.....	Edmonton, Alta.	M
CMDD	z	150	588	Havana, Cuba.	E
HIX	ak	1500	.....	Santo Domingo, D. R.	E-8:10-10:30
KMJ	ak	500	CT	Fresno, Calif.	P-7:00-mid.
KSAC	ak	500	2 (1)	Manhattan, Kans.	C-8:00-9:00; 10:00-10:30; 12:30-1:30; 4:30-5:30
WDBO	ae	250	CW	Orlando, Fla.	E-7:00-mid.
WBW	ae	1000	C2	Topeka, Kans.	C-6:00-mid.
WOBU	ak	750	.....	Charleston, W. Va.	E-8-mid.
WTAG	ae	750	R	Worcester, Mass.	E-8-mid.
XEPN	ak	75000	585	Piedras Negras, Coah.	C-6:00-8:00; 11:00-1:00; 7:00-11:00

## 590 kilocycles 508.2 meters

CMW	ae	1400	595	Havana, Cuba.	E-11:00-10:00
KHQ	ak	1000	N (2.5)	Spokane, Wash.	P-7-mid.
WEEI	ak	1000	R	Boston, Mass.	E-6:45-1. (WIXAL)
WKZO	ae	1000	DK	Kalamazoo, Mich.	E-7:00-7:00
WOW	ae	1000	R	Omaha, Neb.	C-7:00-10:00; 10:45-3:15; 4:00-mid.

## 600 kilocycles 499.7 meters

CFCF	ae	500	F	Montreal, Que.	E-7:30-mid. (VE9DR)
CFCO	ak	50	FL	Chatham, Ont.	E-7:15-10
CJOR	ak	500	.....	Vancouver, B. C.	P-7:30-10:30
KFOD	ck	250	.....	Anchorage, Alaska.	L-6:00-mid.
KFSD	ah	1000	N	San Diego, Calif.	P-7:30-mid.
WSCAC	ae	250	2	Storrs, Conn.	E-12:30-1; 7-8
WCAO	ae	250	C	Baltimore, Md.	E-7:00-mid.
WICC	ae	250	2 CH (.5)	Bridgeport, Conn.	E-7:45-1:00
WMT	af	500	C	Waterloo, Iowa.	C-6:00-mid.
WREC	ak	500	C (1)	Memphis, Tenn.	C-6:30-mid.

CUT OUT ON DOTTED LINES

# INDEX BY FREQUENCIES AND DIAL NUMBERS

With Tuesday's Time on the Air

## 610 kilocycles 491.5 meters

KFRC	ae	1000	CT	San Francisco, Calif.	P-7-mid.
KZEG	ak	1000	618.5	Manila, P. I.	U-7:30-12:15; 1:15-5:00
KZRM	ak	50000	618.5	Manila, P. I.	L-6:30-7:30; 12:15-1:15; 5:10-10:30
TXA	z	7.5	614	San Jose, C. R.	
WDAF	ak	1000	R	Kansas City, Mo.	C-7:56-12:30
WIP	ae	500	C (1)	Philadelphia, Pa.	E-8:30-12:30
WJAY	ak	500	D	Cleveland, Ohio.	E-6-sunset

## 620 kilocycles 483.6 meters

KGW	ae	1000	NJ	Portland, Ore.	P-7:00-mid.
KTAR	ae	500	NJ (1)	Phoenix, Ariz.	M-7:00-11:15
WFLA	ae	1000	Na (2.5)	Clearwater, Fla.	E-7:30-1:00
WLBZ	ak	500	C	Bangor, Maine.	E
WSUN	ae	1000	Na (2.5)	St. Petersburg, Fla.	E-7:30-1:00
WTMJ	ae	1000	N (2.5)	Milwaukee, Wis.	C-6:45-1:00

## 630 kilocycles 475.9 meters

CFCY	ae	500	FVE	Charlottetown, P. E. I.	A-12:00-1:30; 6:00-11:30
CJGX	ck	500	F	Yorkton, Sask.	C-8:30-9:15; 10:30-11:45; 12:40-1:15; 7:30-9:00
CMQ	z	500	2	Havana, Cuba.	E
KFRU	ak	500	1	Columbia, Mo.	C-6-9; 4-sunset; 7-9
KGFX	z	200	D	Pierre, S. D.	C-9:30-sunset
WGBF	ae	500	1	Evansville, Ind.	C
WMAL	ak	250	B (.5)	Washington, D. C.	E-6:45-mid.
WOS	ak	500	1D	Jefferson City, Mo.	C-9:00-4:00
XEX	z	50	.....	Monterrey, N. L.	
XEZ	ak	500	.....	Merida, Yuc.	C-1-5
XFG	z	2000	638.3	Mexico City, F.	C

## 640 kilocycles 468.5 meters

KFI	ak	50000	1N	Los Angeles, Calif.	P-6:30-mid.
WAIU	ae	500	1	Columbus, Ohio.	E-6:15-5:45
WOI	ae	5000	D	Ames, Iowa.	C-6:30-11:30; noon-1:45; 3:30-5:00

## 650 kilocycles 461.3 meters

KPCB	ae	100	.....	Seattle, Wash.	P-5:30-sunset; 10-4
WSM	aej	50000	N	Nashville, Tenn.	C-6:30-mid.

## 660 kilocycles 454.3 meters

RUS	z	500	664	San Salvador, E. S.	
WAAW	af	500	D	Omaha, Neb.	C-6:00-sunset
WEAF	ak	50000	R	New York, N. Y.	E-8:00-1:00

## 670 kilocycles 447.5 meters

WMAQ	ck	5000	N	Chicago, Ill.	C-7:30-1:00
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## 680 kilocycles 440.9 meters

CMAF	ak	1000	.....	Havana, Cuba.	E-5:30-11:30
HJN	ak	500	681	Bogota, Colombia.	L-Noon-1:30; 7-9
KFEQ	ak	2500	D	St. Joseph, Mo.	C-9:30-4:50
KPO	ak	50000	N	San Francisco, Calif.	P-7:30-mid.
VAS	z	2:00	685	Glace Bay, N. S.	A-1:00-1:15; 1:00-1:15
WPTF	ae	10:0	DnN	Raleigh, N. C.	E-7:30-sunset

## 690 kilocycles 434.5 meters

CFRB	ak	10000	C	Toronto, Ont.	E-8:00-mid.
CJJC	ak	100	.....	Calgary, Alta.	M
NAA	ak	1000	.....	Arlington, Va.	E-11:55-noon; 9:55-10:00
XET	ck	500	.....	Monterrey, N. L.	C-Noon-2:00; 4:00-10:00

## 700 kilocycles 428.3 meters

WLW	ak	50000	NX	Cincinnati, Ohio.	E-6:30-Z (W8XO; W8XAL)
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## 710 kilocycles 422.3 meters

KMPC	ae	500	Dn	Beverly Hills, Calif.	P-6:45-12:30
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With Tuesday's Time on the Air

TIFB	z	30	714		San Jose, C. R.	C-6:00-10:00
WOR	ak	5000	.....		Newark, N. J.	E-6:45-12:30
XEN	ak	1000	711		Mexico City, D. F.	C-9:00-noon; 1:00-4:00; 5:00-mid.

**720 kilocycles 416.4 meters**

WGN	ck	50000	.....		Chicago, Ill.	C-7:00-1:30
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**730 kilocycles 410.7 meters**

CFPL	z	100	F		London, Ont.	E
CJCA	ah	1000	F		Edmonton, Alta.	M
CKAC	ak	5000	C		Montreal, Que.	E-7:30-11:30
CMK	ae	3150	.....		Havana, Cuba.	E-11:00-1:00; 7:00-mid.
XEF- XER	ak	150000	735		Villa Acuna, Coah.	C-7:15-5:00

**KCYS.  
820  
DIAL**

**740 kilocycles 405.2 meters**

KMMJ	ae	1000	D		Clay Center, Neb.	C-5:00-sunset
WHEB	ak	250	D		Portsmouth, N. H.	E-8:30-1:30; 3:30-7:45
WSB	ah	50000	NX		Atlanta, Ga.	C-6:55-mid.

**750 kilocycles 399.8 meters**

KGU	aj	2500	N		Honolulu, T. H.	L-6:30-10:30
WJR	ak	10000	B		Detroit, Mich.	E-7:00-1:00
XÉOK	ak	5000	757		Tijuana, B. C.	P-7:00-mid.

**760 kilocycles 394.5 meters**

CMBS	ak	200	765		Havana, Cuba.	E-10:00; 3:30-6
KXA	ae	250	(5)		Seattle, Wash.	P-5:30-mid.
WBAL	ae	10000	BSy		Baltimore, Md.	(See 1060 Kcys.)
WEW	ae	1000	D		St. Louis, Mo.	C-8-sunset
WJZ	ck	50000	BSy		New York, N. Y.	E-8-1. (W3XL; W3XAL)
XÉYZ	z	10000	.....		Mexico City, D. F.	C

**770 kilocycles 389.4 meters**

CMCQ	z	1000	775		Havana, Cuba.	E
KFAB	ae	5000	CSy		Lincoln, Neb.	C-5:00-6:45; 9:00-mid.
WBMM	ae	25000	CSy		Chicago, Ill.	C

**780 kilocycles 384.4 meters**

CHWK	ak	100	F		Chilliwack, B. C.	P-9:00-10:00; 12:00-1:00; 5:30-8:30
CJCS	ae	500	(1) P		Sudbury, Ont.	E-8:00-mid.
CKPR	ak	50	FE		Fort William, Ont.	E-10-2; 5-11
KELW	ae	500	2		Burbank, Calif.	P-10:00-1:00; 5:00-8:00; 4:00-6:00
KTM	ae	500	2 (1)		Los Angeles, Calif.	P-6:00-10:00; 1:00-5:00; 8:00-4:00
WEAN	ae	500	CH		Providence, R. I.	E-7:30-1:00
WMC	ak	500	N (1)		Memphis, Tenn.	C-7:00-mid.
WTAR	ae	500	C		Norfolk, Va.	E-7:00-mid.
XEP	z	1000	.....		Mexico City, D. F.	C

**790 kilocycles 379.5 meters**

CMJK	ak	500	.....		Camaguey, Cuba.	E-11:30-12:30; 5:00-11:00
KGO	ak	7500	N		San Francisco, Calif.	P-7:00-mid
WGY	ak	50000	R		Schenectady, N. Y.	E-6:45-1. (W2XAD; W2XAF)

**800 kilocycles 374.8 meters**

TIGP	z	75	.....		San Jose, C. R.	
VOAC	z	40	.....		St. John's, Newfoundland.	L
WBAP	ak	50000	Na		Fort Worth, Tex.	C-6:30-7; 8:30-10:30; 12:30-3; 5:30-6:30; 7-10
WFAA	ak	50000	Na		Dallas, Tex.	C-7-8:30; 10:30-12:30; 3-5:30; 6:30-7; 10-mid.
XFC	z	350	805		Aguascalientes, Ags.	

**810 kilocycles 370.2 meters**

VOAS	ak	100	.....		St. John's, Nfld.	L-11:00-12:30; 4:00-5:30
WCCO	ak	50000	C		Minneapolis, Minn.	C-7:00-mid.
WNYC	ak	500	N		New York, N. Y.	E-10:00-7:30

**820 kilocycles 365.6 meters**

CMGC	z	30	.....		Matanzas, Cuba.	E
WHAS	aj	50000	C		Louisville, Ky.	C-7:00-mid.

CUT OUT ON DOTTED LINES

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With Tuesday's Time on the Air

## 830 kilocycles 361.2 meters

CMC	ae	500	835	Havana, Cuba.	E—10:30-11:30; 7:00-11:00
CMGA	z	100	834	Colon, Cuba.	E
KOA	ak	12500	N	Denver, Colo.	M—7:00-mid.
LR5	z	20000	.....	Buenos Aires, Arg.	L
TIEA	z	7.5	833	San Jose, C. R.	L
WEEU	ak	1000	D	Reading, Pa.	E—8:00-6:15
WHDH	ae	1000	Dn	Boston, Mass.	E—7:00-sunset in Denver
WRUF	ae	5000	Dn	Gainesville, Fla.	E—8:00-7:00
XETW	dk	500	.....	Mexico City, D. F.	C—Noon-11:00

## 840 kilocycles 356.9 meters

CJOC	ak	100	F	Lethbridge, Alta.	M—7:30-8:00
CKLW	ae	5000	C	Windsor, Ont.	E—7:00-1:00
AFX	ak	500	.....	Mexico City, D. F.	C—7-12:30; 6:30-10:00

## 850 kilocycles 352.7 meters

KIEV	ak	100	D	Glendale, Calif.	P—6:00-sunset
KWKH	ae	10000	I	Shreveport, La.	C
WWL	ae	10000	1Dn	New Orleans, La.	C—8:00-8:30

## 860 kilocycles 348.6 meters

TIVL	z	30	869	San Jose, C. R.	C—11:00-1:00; 7:00-10:00
WABC	ae	50000	C	New York, N. Y.	E—7:30-2:00 (WBOQ) (W2XE)
WHB	ae	500	D	Kansas City, Mo.	C—6:00-6:00
XETH	ak	100	.....	Puebla, Pue.	C—8:30-11:00; 1:00-3:00; 6:30-11:00

## 870 kilocycles 344.6 meters

CMCF	ak	250	873	Havana, Cuba.	E—5:00-8:00; 9:00-11:00
CMX	ae	1000	875	Havana, Cuba.	E—Noon-2:00; 8:00-9:00
WENR	ak	50000	Na	Chicago, Ill.	C—(W9XF)
WLS	ae	50000	Na	Chicago, Ill.	C—5:30-9:15; 10:45-2:30; 6:00-7:30

## 880 kilocycles 340.7 meters

CJCB	ak	50	F	Sydney, N. S.	A—10:00-11:00; noon-2:00; 5:00-10:00
CRCO	ak	1000	F	Ottawa, Ont.	E—Noon-1:30; 5:30-11:30
KPKA	ak	500	2 (1)	Greeley, Colo.	M—6:00-7:30; 9:00-2:30; 4:30-6; 8-mid.
KLX	ae	1000	.....	Oakland, Calif.	P—8:00-11:00
KPOF	ae	500	2	Denver, Colo.	M—7:30-9:00; 2:30-4:00; 6:00-8:00
WCOC	ae	500	(1)	Meridian, Miss.	C—7:30-2:00; 5:00-10:30
WGBI	ae	250	1	Scranton, Pa.	E—9:30-12:30; 1:30-4:30; 5:30-8:00
WQAN	ae	250	1	Scranton, Pa.	E—9:00-9:30; 12:30-1:30; 4:30-5:30; 8-11:00
WSUI	ae	500	.....	Iowa City, Iowa.	C—9:00-10:00; 11:00-12:30; 2:00-4:00; 6:00-10:00
YV2BC	z	100	882	Caracas, Venez.	L

## 890 kilocycles 336.9 meters

KARK	ak	250	.....	Little Rock, Ark.	C—7:00-2:30; 4:30-9:00
KKNF	ak	500	2 (1)	Shenandoah, Iowa.	C—5:00-10:00; 11:00-5:00; 6:00-10:00
KSEI	ck	250	(.5)	Pocatello, Idaho.	M—7:30-11:00
KUSD	ae	500	2	Vermillion, S. D.	C—Silent
WGST	ae	250	C (1)	Atlanta, Ga.	C—7:00-mid.
WILL	ak	250	2 (.1)	Urbana, Ill.	C—10:00-12:15; 5:00-6:00
WJAR	ae	500	R	Providence, R. I.	E—8:00-mid.
WMMN	ae	250	(.5)	Fairmont, W. Va.	E—7:00-9:30
XETU	z	100	.....	Pachuca, Hdo.	

## 900 kilocycles 333.1 meters

KGBU	ak	500	.....	Ketchikan, Alaska.	L
KHJ	ae	1000	CT	Los Angeles, Calif.	P—7:00-1:00
VOWR	ak	500	S	St. John's, Nfld.	L—Silent
WBEN	ae	1000	R	Buffalo, N. Y.	E—6:45-mid.
WJAX	ae	1000	N	Jacksonville, Fla.	E—7:00-12:30
WKY	ak	1000	N	Oklahoma City, Okla.	C—6:45-mid.
WLBL	ae	2500	D	Stevens Point, Wis.	C—8:00-sunset

## 910 kilocycles 329.6 meters

CKY	ak	5000	F	Winnipeg, Man.	C—8:30-1:30; 4:00-11:00
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With Tuesday's Time on the Air

CMCD	ah	500	915	Havana, Cuba.	E—Noon-9:00
CMJF	z	200	.....	Camaguey, Cuba	E
CRCM	ck	5000	F	Montreal, Que.	E
TICR	z	75	911	San Jose, C. R.	C—6:30-10:00
XEW	ak	5000	.....	Mexico City, D. F.	C

## 920 kilocycles 325.9 meters

HMDE	z	150	925	Havana, Cuba.	E
HHK	ae	1000	.....	Port-au-Prince, Haiti.	E—Silent
KFEL	ak	500	1	Denver, Colo.	M—6:30-8:30; 10:00-12:30; 3:00-4:30; 6-7:30; 9-Mid.
KFXF	ak	500	1	Denver, Colo.	M—8:30-10; 12:30-3; 4:30-6; 7:30-9:00; mid.-1:00
KOMO	ak	1000	N	Seattle, Wash.	P—6:55-mid.
KPRC	ae	1000	N (2.5)	Houston, Texas.	C—6:30-mid.
WAAF	ak	500	D	Chicago, Ill.	C—6:00-sunset
WBOS	ae	500	D	Babson Park, Mass.	E—8:30-5:15
WWJ	ae	1000	R	Detroit, Mich.	E—7:30-mid.

## 930 kilocycles 322.4 meters

CFAC	ak	100	.....	Calgary, Alta.	M
CFCH	ak	100	F	North Bay, Ont.	E—Noon-1:30; 5:30-mid.
CFLC	ae	100	.....	Prescott, Ont.	E—8:00-10:00; noon-2:00; 5:00-10:00
CHRC	ak	100	F	Quebec, Que.	E—9:00-12:30
CKPC	ae	100	FG	Brantford, Ont.	E—6:45-mid.
KFWI	ak	500	1	San Francisco, Calif.	P—Silent till further notice
KGBZ	ak	500	2 (1)	York, Neb.	C—5-6; 7:30-9:30; 11-12:30; 2-3:30; 5-6:30; 8:30-mid.
KMA	ak	500	2 (1)	Shenandoah, Iowa.	C—6-7:30; 9:30-11; 12:30-2; 3:30-5; 6:30-8:30
KROW	ak	500	1 (1)	Oakland, Calif.	P—7:00-mid.
WBRC	ak	500	C (1)	Birmingham, Ala.	C—7:00-11:00
WDBJ	ae	250	C (1.5)	Roanoke, Va.	E—8:00-mid.

KCY5.  
990

DIAL

## 940 kilocycles 319.0 meters

CMHD	dk	500	945.5	Caibarien, Cuba.	E—8:00-9:00
KOIN	ak	1000	CT	Portland, Ore.	P—6:30-mid.
WAAT	ae	300	D	Jersey City, N. J.	E—6:00-6:00
WAVE	ak	1000	.....	Louisville, Ky.	C—Silent
WCSH	ae	1000	R (2.5)	Portland, Maine.	E—8:00-mid.
WDAY	ae	1000	N	Fargo, N. D.	C—7:00-mid.
WHA	ak	1000	D	Madison, Wis.	C—8:00-sunset
XEFO	ak	5000	.....	Mexico City, D. F.	C—1:00-3:00; 6:25-mid. (XEO)

## 950 kilocycles 315.6 meters

KFWH	ak	1000	.....	Hollywood, Calif.	P—7:30-12:30
KGHL	ak	1000	NJ (2.5)	Billings, Mont.	M—8:00-11:00
KMBC	ak	1000	C	Kansas City, Mo.	C—6:00-mid.
VOYG	ak	75	.....	St. John's, Nfld.	L—10:30-11:30; 1:00-2:00; 6:15-8:00
WRC	ae	500	R	Washington, D. C.	E—6:30-1:00

## 960 kilocycles 312.3 meters

CMBD	z	250	965	Havana, Cuba.	E—6:00-11:00
CMCW	ak	150	965	Havana, Cuba.	E—1:00-3:00; noon-6:00
CMJL	z	50	.....	Camaguey, Cuba.	
CRCT	ak	5000	NF	Toronto, Ont.	E—6:45-mid. (VE9GW)
XEAW	ak	10000	965	Reynosa, Tams.	C—5:00-1:00
YVIBC	ak	5000	.....	Caracas, Venez.	L—11:00-1:30; 5:30-10:15

## 970 kilocycles 309.1 meters

CMGF	ak	100	971.5	Mantanzas, Cuba.	E—3:00-5:00; 8:00-10:30
KJR	z	5000	N	Seattle, Wash.	P—7:30-mid.
WCFL	ae	1500	BX	Chicago, Ill.	C—7:00-mid. (W9XAA)
WIBG	ae	100	D	Glenside, Pa.	E—9:00-sunset

## 980 kilocycles 303.9 meters

KDKA	ak	50000	B	Pittsburgh, Pa.	E—7:00-1:00. (W8XK)
XEAE	ak	800	.....	Tijuana, B. C.	P—9:00-mid.
XEFE	z	100	985	Nuevo Laredo, Tams.	C

## 990 kilocycles 302.8 meters

TITV	z	7.5	999	San Jose, C. R.	C—3:00-5:00; 7:00-11:00
WBZ	ak	50000	BSy	Boston, Mass.	E—7:00-1:00. (W1XAZ)
WBZA	ak	1000	BSy	Springfield, Mass.	E—7:00-1:00
WJBM	z	500	D	Tupelo, Missa.	C

CUT OUT ON DOTTED LINES

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XEAF	z	750	.....	Nogales, Son.
XEK	ak	100	.....	Mexico City, D. F. C—11:00-4:00; 6:00-2:00

## 1000 kilocycles 299.8 meters

CMBZ	ak	150	1005	Havana, Cuba. E—11-1; 4-6; 8:30-11
KFVD	ae	250	Dn	Los Angeles, Calif. P—6:30-sunset; 10:00-mid.
WHO-				
WOC	ak	50000	R	Des Moines, Iowa. C—7:00-mid.
WORK	ak	1000	D	York, Pa. E—8:00-6:45
XEA	ak	250	.....	Guadalajara, Jal. C—8:30-9:00; 6:00-11:00
XEFJ	z	50	.....	Toluca, D. F. C
XEFJ	ak	100	.....	Monterrey, N. L. C—11:00-2:00; 7:00-10:00
XEFS	ak	40	.....	Queretaro, Qro. C—8:00-10:00
XEL	ak	40	.....	Saltillo, Coah. C—10:30-1:00; 6:00-9:00

## 1010 kilocycles 296.9 meters

CHML	aei	50	M	Hamilton, Ont. E—8:00-11:00
CHWC	ae	500	3F	Regina, Sask. M—7-9; 10-11; noon-1; 3:30-6:30
CKCD	ak	100	.....	Vancouver, B. C. P—7:30-11:30
CKCK	ak	500	3F	Regina, Sask. M—9-10; 11-noon; 1-3:30; 5:30-11
CKCO	z	100	.....	Ottawa, Ont. E
CKIC	ak	50	.....	Wolfville, N. S. A—Noon-1:00; 6:00-7:00
CKWX	aeH	100	L	Vancouver, B. C. P—7-7:30
CMJO	ak	50	.....	Ciego de Avila, Cuba. E—9:00-1:00; 6:00-10:00
KGGF	ak	500	2 (1)	Coffeyville, Kans. C—7:30-2; 3:45-7:15
KQW	ae	500	.....	San Jose, Calif. P—7:00-8:00; 9:00-3:00; 4:30-10:00
TIGA	z	30	1014	Cartago, C. R.
WHN	ae	250	1	New York, N. Y. E—1:30-5:30
WIS	ae	500	N (1)	Columbia, S. C. E—8:00-mid.
WNAD	ae	500	2	Norman, Okla. C—7:15-9:15
WPAP	ae	250	1	New York, N. Y. E—11-1
WQAO	ae	250	1	New York, N. Y. E—Silent
WRNY	ae	250	1	New York, N. Y. E—9:30-1:30; 5:30-11
XEJ	ak	500	1015	Juarez, Chih. C
XEU	ak	100	.....	Veracruz, Ver. C—7:00-9:00; 10:00-2:00; 5:00-11:00

## 1020 kilocycles 293.9 meters

KYW	ae	10000	NY	Chicago, Ill. C—8:00-1:00
WRAX	ak	250	DZ	Philadelphia, Pa. E—7:00-7:00
XES	dk	250	.....	Tampico, Tams. E—10:00-2:30; 5:00-10:00

## 1030 kilocycles 291.1 meters

CFCN	ak	10000	F	Calgary, Alta. M—7:30-1:30; 5:00-11:00
CFNB	ae	500	FE	Fredericton, N. B. A—8:30-9:30; 12:30-2:00; 7:30-10:00
CKNC	ak	100	F	Toronto, Ont. E—8-11. (VE9CB)
CMHI	ak	250	1037	Santa Clara, Cuba. E—11:00-noon; 8:00-9:00
CKMK	z	150	1034	Santiago, Cuba. E
XEB	ak	10000	.....	Mexico City, D. F. C—9:30-10:00

## 1040 kilocycles 288.3 meters

CMGH	ak	15	.....	Matanzas, Cuba. E—2:00-3:00; 5:00-6:00; 7:30-8:30
KRLD	ae	10000	1C	Dallas, Texas. C
KTHS	ae	10000	DN	Hot Springs, Ark. C
WESG	ak	1000	D	Elmira, N. Y. E—8:00-6:00
WKAR	ak	1000	D	East Lansing, Mich. E

## 1050 kilocycles 285.5 meters

CHNS	ae	500	FL	Halifax, N. S. A—8:00-1:30; 6:00-mid.
CMBG	z	225	1052a	Havana, Cuba. E
CMCB	ak	150	1052a	Havana, Cuba. E
CMJG	z	50	.....	Camaguey, Cuba. E
KFBI	ak	5000	Dn	Abilene, Kans. C—6:00-sunset
KNX	ak	25000	.....	Hollywood, Calif. P—6:45-11:00
XEFC	ak	100	.....	Merida, Yuc. C—7-10

## 1060 kilocycles 282.8 meters

KWJJ	ak	500	.....	Portland, Ore. P—6:00-8:00; 9:00-2:00
WBAL	ae	10000	1B	Baltimore, Md. E—3-mid.
WJAG	ak	1000	D	Norfolk, Neb. C—6:45-sunset
WTIC	ak	50000	1R	Hartford, Conn. E—7:30-3

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## 1070 kilocycles 280.2 meters

KJBS	ae	100	D	San Francisco, Calif.	P—12:01-sunset
WCAZ	ae	50	D	Carthage, Ill.	C
WDZ	ak	100	D	Tuscola, Ill.	C—8:00-4:00
WTAM	ck	50000	R	Cleveland, Ohio.	E—6:30-1:00

## 1080 kilocycles 277.6 meters

VOKW	z	30	1085	St. John's, Nfld.	L—Noon-2:00
WBT	ae	50000	CU	Charlotte, N. C.	E—7:00-mid.
WCBD	ae	5000	1Dn	Zion, Ill.	C—7:30-10:30; 1:30-sunset
WMBI	ae	5000	1Dn	Chicago, Ill.	C—7:00-7:30; 10:30-1:30; 3:00-4:00
XEFG	ak	500	1085	Mexico City, D. F.	C—10:30-4:00; 7:00-mid.

## 1090 kilocycles 275.1 meters

KMOX	ak	50000	C	St. Louis, Mo.	C—6:30-12:30
XEAI	z	100	.....	Mexico City, D. F.	(All mail returned)

## 1100 kilocycles 272.6 meters

CMCU	ak	500	.....	Havana, Cuba.	E—Noon-6
CRCV	ak	1000	F	Vancouver, B. C.	P—Noon-1; 5:30-11
KGDM	ak	250	D	Stockton, Calif.	P—6-sunset
GIRCA	ak	500	.....	San Jose, C. R.	C—11:00-1:00; 5:00-10:30
WLWL	ae	5000	1	New York, N. Y.	E—6:00-8:00
WPG	ak	5000	1C	Atlantic City, N. J.	E—9:00-6:00; 8:00-1:00
XEWW	z	250	.....	Veracruz, Ver.	C

## 1110 kilocycles 270.1 meters

KSOO	ae	1000	Dn (2.5)	Sioux Falls, S. D.	C—6:00-6:30
WRVA	ae	5000	N	Richmond, Va.	E—7:00-mid.
XENT	ak	150000	1115	Nuevo Laredo, Tams.	C—6:00-8:00; 10:00-2:00; 5:00-10:00

## 1120 kilocycles 267.7 meters

CFTP	z	100	.....	Edmonton, Alta.	M
CHGS	ae	50	F	Summerside, P. E. I.	A—7:30-8:30; 10:30-2; 4:30-11
CHLP	z	100	.....	Montreal, Que.	E—9:00-mid.
CKOC	ae	500	F (1)	Hamilton, Ont.	E—7:45-11:30
CMHJ	ae	60	1125	Cienfuegos, Cuba.	E—11:00-2:00; 6:00-9:00
KFIC	ae	100	D	Spokane, Wash.	P—7:00-sunset
KFSG	ag	500	a	Los Angeles, Calif.	P—6:30-7:15; 7:30-mid.
KRKD	ae	500	a	Los Angeles, Calif.	P—7:45-7:30
KRSC	ak	100	D	Seattle, Wash.	P—6:45-6:30
KTRH	z	1000	2C	Houston, Texas.	C—6:30-11:30
WDEL	ak	250	(.5)	Wilmington, Del.	E—9:00-10:00
WHAD	ak	250	1C	Milwaukee, Wis.	C—9:30-10:15; 3:00-4:00; 8:30-9:30
WISN	ak	250	1	Milwaukee, Wis.	C
WTAW	ae	500	2	College Station, Tex.	C—8-9

## 1130 kilocycles 265.3 meters

KSL	ae	50000	C	Salt Lake City, Utah.	M—6:45-mid.
WJJD	ae	20000	Dn	Chicago, Ill.	C—6:30-10:00
WOV	ag	1000	D	New York, N. Y.	E—8:00-6:00
XEH	ak	250	1132	Monterrey, N. L.	C—8:00-1:30; 5:00-10:00

## 1140 kilocycles 263.0 meters

CMBJ	z	500	.....	Havana, Cuba.	E—8-11; 7-11
KMBW	ak	600	.....	Havana, Cuba.	E—6-11
KVOO	ae	25000	1N	Tulsa, Okla.	C—6:30-9
WAPI	ae	5000	1N	Birmingham, Ala.	C—6:00-sunset; 9:00-mid.

## 1150 kilocycles 260.7 meters

CMHJ	ak	50	.....	Ciego de Avila, Cuba.	E—8:00-8:30; 10:00-3:00; 5:30-10:30
WHAM	ae	50000	B	Rochester, N. Y.	E—8:00-mid.
XED	ak	500	1155	Guadalajara, Jal.	C—Noon-3:30; 7:00-mid.

## 1160 kilocycles 258.5 meters

WOWO	ae	10000	1C	Fort Wayne, Ind.	C—8:30-5:15; 7:30-10
WVVA	ae	5000	1C	Wheeling, W. Va.	E—6:30-8:30; 10-mid.

KCYS.  
1160  
DIAL

CUT OUT ON DOTTED LINES

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## 1170 kilocycles 256.3 meters

CMJE	z	50	.....	Carnaguey, Cuba.	E	
WCAU	ae	50000	C	Philadelphia, Pa.	E-8.00-1.00 (W3XAU)	

## 1180 kilocycles 254.1 meters

CMBN	ak	150	1185	Havana, Cuba.	E	
CMCJ	ak	500	.....	Havana, Cuba.	E-Noon-2; 4-6; 7-10	
KEX	ak	5000	2N	Portland, Ore.	P-7.5-3.0; 8-mid.	
KOQ	ae	10000	.....	Albuquerque, N. M.	M-Noon-1.00; 5.00-9.00	
WDGY	ak	1000	Dn	Minneapolis, Minn.	C-7.30-8.15	
WINS	ae	500	.....	New York, N. Y.	E-6.00-7.00	
WMAZ	ak	500	.....	Macon, Ga.	E-7.30-3.00; 5.00-8.15	

## 1190 kilocycles 252.0 meters

HIJ	z	15	1195	Santo Domingo, D. R.	E	E-12.30-2.30; 6.30-8.30
VE9EK	ak	10	1195	Montmagny, Que.	E	
WONF	ak	400	1195	St. John's, Nfld.	L-Noon-2.00; 6.00-9.00	
WOAI	ae	50000	N	San Antonio, Texas.	C-6.30-11.30	
WSAZ	ak	1000	.....	Huntington, W. Va.	E-8.00-8.00	

## 1200 kilocycles 249.9 meters

CHAB	ak	100	F	Moose Jaw, Sask.	M	M-5.30-7
CJAT	ak	50	.....	Trail, B. C.	P-9.30-9	
CKTB	ae	100	G	St. Catharines, Ont.	E	
CMGB	z	30	1205	Matanzas, Cuba.	E	
CMHW	z	100	.....	Cienfuegas, Cuba	E	
KBTM	ak	100	DY	Jonesboro, Ark.	C-7.30-1.30; 2.30-5.30	
KERN	ak	100	CT	Bakersfield, Calif.	P-7.00-mid.	
KFJB	ak	100	(.25)	Marshalltown, Iowa.	C-6.00-9.00; noon-3.00; 6.00-9.00	
KFXD	ae	100	.....	Nampa, Idaho.	M-7.00-9.00	
KFXJ	ak	100	.....	Grand Junction, Colo.	M	
KGDE	ak	100	(.25)	Fergus Falls, Minn.	C-7.00-9.00	
KGKE	ak	100	.....	Yuma, Colo.	M-11.30-1.30; 7.15-8.45	
KGJF	ae	100	.....	Los Angeles, Calif.	P-24 hours	
KGHI	ak	100	(.25)	Little Rock, Ark.	C-7.00-1.00; 4.00-10.00	
KGVO	ak	100	.....	Missoula, Mont.	M-8.00-8.30	
KMLB	ak	100	.....	Monroe, La.	C	
KSUN	ae	100	D	Lowell, Ariz.	M-Sunrise-sunset	
KVOS	ak	100	.....	Bellingham, Wash.	P-7.00-10.00	
KVWG	ae	100	CT	Stockton, Calif.	P-7.00-mid.	
WABI	ak	100	.....	Bangor, Maine.	E-9.00-2.00; 6.00-10.00	
WBBX	ak	100	1	New Orleans, La.	C-Noon-5.00; 8.00-11.00	
WBBZ	ak	100	.....	Ponca City, Okla.	C-6.30-9	
WBHS	z	100	4	Huntsville, Ala.	C	
WCAT	ak	100	D	Rapid City, S. D.	C-12.30-1.30	
WCAX	ak	100	.....	Burlington, Vt.	E-Noon-1	
WCLO	ak	100	.....	Janesville, Wis.	C-7.30-2.00; 5.00-8.30	
WFAM	ak	100	8C	South Bend, Ind.	C-6.30-mid.	
WFBC	ak	100	4 (.25)	Greenville, S. C.	E-7.30-2.30; 5.30-10.30	
WFBE	ak	100	(.25)	Cincinnati, Ohio.	E-7.00-11.30	
WHBC	ak	100	2	Canton, Ohio.	E-7.00-9.00; noon-3.00; 6.00-9.00	
WHBY	ak	100	.....	Green Bay, Wis.	C-7.30-9.45	
WIBX	ae	100	(.3)	Utica, N. Y.	E-8.00-11.00	
WIL	ak	100	5 (.25)	St. Louis, Mo.	C-7.00-mid.	
WJCB	ae	100	6	LaSalle, Ill.	C-8.9; 10-12.30; 3-6.30	
WJBL	ae	100	6	Decatur, Ill.	C-6.30-8; 9.10; 12.30-3; 6.30-10	
WJWB	ak	100	1	New Orleans, La.	C-8.00-noon; 5.00-8.00	
WKBO	ak	100	3	Harrisburg, Pa.	E-7.00-10.00; 2.00-5.00; 7.00-11.00	
WKJC	ae	100	3	Lancaster, Pa.	E-11.00-3.00; 6.00-9.00	
WLAP	ae	100	(.25)	Louisville, Ky.	C-7.30-11.30	
WNBO	ae	100	2	Silverhaven, Pa.	E-9.00-noon; 3.00-6.00; 9.00-mid.	
WNBW	z	10	(.1)	Carbondale, Pa.	E	
WPHR	ak	100	(.25)	Petersburg, Va.	E-8.00-5.00; 6.00-9.00	
WRBL	z	100	.....	Columbus, Ga.	C-7.00-11.00	
WWAE	ae	100	8	Hammond, Ind.	C-7.8.30; 11-1; 4-5; 6-mid.	
YW3BC	ak	10000	.....	Caracas, Venez.	L-11.00-2.00; 5.00-10.30	
10-AK	ak	15	.....	Stratford, Ont.	E-Noon-1.00; 5.30-7.00	
10-BP	ak	15	.....	Wingham, Ont.	E-Noon-1	
10-BQ	ak	15	.....	Brantford, Ont.	E-11-8	
10-BU	z	15	.....	Canora, Sask.	C	

## 1210 kilocycles 247.8 meters

CFBO	z	100	F	St. John, N. B.	A	
CHNC	ak	100	PF	New Carlisle, Que.	A-1.00-mid.	
CKBI	ak	100	.....	Prince Albert, Sask.	M	

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CKCH	z	100	.....	Hull, Que.	E			
CKMC	ak	50	.....	Cobalt, Ont.	E			
CKVO	ak	50	F	Kelowna, B. C.	P			
KASA	ak	100	.....	Elk City, Okla.	C	6:30-1:30; 5:00-7:00		
KDLR	ak	100	.....	Devils Lake, N. D.	C	8:00-2:15; 6:00-8:00		
KFJI	ak	100	.....	Klamath Falls, Ore.	P	8:30-9:00		
KFOR	ak	100	(.25)	Lincoln, Neb.	C	7:00-10:00		
KFPW	ak	100	.....	Fort Smith, Ark.	C	7:00-2:00; 5:00-10:00		
KFVS	ae	100	6	Cape Girardeau, Mo.	C	9-noon; 4-7:30; 9-mid.		
KFXM	ak	100	9	San Bernardino, Calif.	P	6-mid.		
KGCR	ak	100	.....	Watertown, S. D.	C	7:00-3:00; 5:00-9:00		
KGY	ak	100	.....	Olympia, Wash.	P	7-7		
KIEM	ak	100	.....	Eureka, Calif.	P	7:45-sunset		
KPPC	ak	50	9	Pasadena, Calif.	P	Silent		
KWEA	z	100	.....	Shreveport, La.	C			
KWFL	z	100	.....	Hilo, Hawaii	L			
WALR	ae	100	.....	Zanesville, Ohio.	E			
WBAX	ae	100	1	Wilkes Barre, Pa.	E			
WBBL	ak	100	7S	Richmond, Va.	E	Silent		
WCBS	ak	100	2	Springfield, Ill.	C	11:15-3:00; 6:45-9:00		
WCRW	ae	100	4	Chicago, Ill.	C	11:00-2:00; 5:00-7:00		
WEBQ	ae	100	6	Harrisburg, Ill.	C	6-9; noon-4; 7:30-9		
WEDC	ae	100	4	Chicago, Ill.	C	8:30-10:00; 3:30-5; 7-8; 10-11; mid.-2:00		
WFAS	ak	100	3	White Plains, N. Y.	E	9-11; 9-mid.		
WGBB	ae	100	3	Freeport, N. Y.	E	7-9		
WGCM	ak	100	(.25)	Mississippi City, Miss.	C	9:00-1:00; 7:00-9:00		
WGNV	ae	100	.....	Chester, N. Y.	E			
WHBF	ak	100	.....	Rock Island, Ill.	C	7-30-10:00		
WHBU	ah	100	.....	Anderson, Ind.	C	7-10		
WIBU	a	100	.....	Poynette, Wis.	C			
WJBI	ak	100	3	Red Bank, N. J.	E	4-7		
WJBY	ak	100	.....	Gadsden, Ala.	C	9:00-9:00		
WJEJ	ah	100	D	Hagerstown, Md.	E	7:00-1:00; 4:00-7:45		
WJW	ak	100	.....	Akron, Ohio.	E	9:00-11:30		
WKFI	ak	100	Y	Greenville, Miss.	C	7-7:00-7:00		
WKOK	ak	100	1P	Sunbury, Pa.	E			
WMBG	ak	100	7C	Richmond, Va.	E	7:00-mid.		
WOCL	ak	50	.....	Jamestown, N. Y.	E	Noon-mid.		
WOMT	ae	100	.....	Manitowoc, Wis.	C	9:00-2:00; 4:00-11:15		
WPRO	ak	100	.....	Providence, R. I.	E	8:00-9:00		
WQDX	ae	100	.....	Thomasville, Ga.	E	8:00-9:00		
WSBC	ae	100	4	Chicago, Ill.	C	6:00-8:30; 10:00-11:00; 2:00-3:30; 8:00-10:00; 11:00-mid.		
WSEN	ak	100	.....	Columbus, Ohio.	E	8:00-mid.		
WSIX	ak	100	.....	Springfield, Tenn.	C	6:00-4:00; 6:00-9:00		
WSOC	ae	100	N	Charlotte, N. C.	E			
WTAX	ae	100	2	Springfield, Ill.	C			
XETZ	z	500	.....	Mexico City, D. F.	C			

**KCYB.  
1240  
DIAL**

## 1220 kilocycles 245.8 meters

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CMHK	ak	50	1225	Cruces, Cuba.	E	10:00-11:30		
KFKU	ae	500	a	Lawrence, Kans.	C	2:30-3:00; 6:00-6:15		
KFWC	ak	1000	S2	Seattle, Wash.	P	Silent		
KWSC	ae	1000	2 (.2)	Pullman, Wash.	P	6:45-8; 10:30-9:30		
KWAD	ak	500	D	Canton, N. Y.	E	12:30-1:30		
WCAE	ae	1000	R	Pittsburgh, Pa.	E	6:45-1:00		
WDAE	ae	1000	CW	Tampa, Fla.	E	8:00-mid.		
WREN	ak	1000	Ba	Lawrence, Kas.	C	7:00-mid.		

## 1230 kilocycles 243.8 meters

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CFQC	z	500	F	Saskatoon, Sask.	C			
CMBY	z	250	2	Havana, Cuba.	E			
CMCA	z	150	2	Havana, Cuba.	E			
KGGM	ak	250	(.5)	Albuquerque, N. M.	M	6:00-noon; 4:00-8:00		
KYA	ae	1000	N	San Francisco, Calif.	P	7:30-mid.		
WFBM	ae	1000	1C	Indianapolis, Ind.	C	7:30-10:15; noon-3:00; 5:30-11:30		
WVAC	ak	1000	CH	Boston, Mass.	E	6:30-1:00		
WSBT	ak	500	1C	South Bend, Ind.	C	6:30-mid.		

## 1240 kilocycles 241.8 meters

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CMAB	z	20	1249	Pinar del Rio, Cuba.	E			
CMJN	z	50	.....	Carnagey, Cuba.	E			
KGCU	ak	250	1	Mandan, N. D.	M	Noon-5:00; 6:45-9:00		
KLPM	ak	250	1	Minot, N. D.	C	7:00-1:00; 6:00-7:45		
KTAT	ak	1000	C	Fort Worth, Texas.	C	7:00-mid.		

CUT OUT ON DOTTED LINES

# INDEX BY FREQUENCIES AND DIAL NUMBERS

With Tuesday's Time on the Air

KTFI	ae	1000	.....	Twin Falls, Idaho.	M—6:00-mid.
WKAO	ae	1000	.....	San Juan, P. R.	A—12:15-3:15; 6:30-10:00
WXYZ	ak	1000	K	Detroit, Mich.	E—7:30-mid.

## 1250 kilocycles 239.9 meters

KFOX	ae	1000	.....	Long Beach, Calif.	P—6:00-mid.
WCAL	ah	1000	2	Northfield, Minn.	C—9:45-10:15; 8:00-10:00
WDSU	ak	1000	C	New Orleans, La.	C—7:00-11:45
WGCP	ak	1000	1 (2.5)	Newark, N. J.	E—2:00-5:00; 8:00-10:00
WLB	ak	1000	2	Minneapolis, Minn.	C—8-9
WNEV	ae	1000	(2.5)	Newark, N. J.	E—7-2; 5-8; 10-mid.
WRHM	ak	1000	2	Minneapolis, Minn.	C—6:15-9:45; 10:35-8; 9-mid.
XEFA	z	500	.....	Mexico City, D. F.	C

## 1260 kilocycles 238.0 meters

KOIL	ak	1000	B	Council Bluffs, Iowa.	C—6:00-1:00
KRGV	ae	500	1	Harlingen, Texas.	C—7:00-9:30; 12:30-3:30; 6:30-9:30
KUOA	ak	1000	.....	Fayetteville, Ark.	C—7:00-6:30
KVOA	ak	500	.....	Tucson, Ariz.	M—6:00-9:00; noon-3:00; 6:00-9:00
KWVG	z	500	1	Brownsville, Tex.	C—Silent till April 1st
WLBW	ae	500	C(1)	Erie, Pa.	E—8:00-1:00
WNBX	ak	250	D	Springfield, Vt.	E—7:30-sunset
WTOC	ae	500	C	Savannah, Ga.	E—7:00-1:00
XEFI	ak	250	.....	Chihuahua, Chih.	C—1:00-3:00; 8:00-10:30

## 1270 kilocycles 236.1 meters

CMBC	ae	150	1	Havana, Cuba.	E
CMCP	z	150	1	Havana, Cuba.	E
KGCA	ak	100	2D	Decorah, Iowa.	C—8:30-9:45; 10:45-11:30; 12:30-2:30
KOL	ae	1000	CT	Seattle, Wash.	P—6:45-mid.
KVOR	ae	1000	C	Colorado Springs, Colo.	M—7:00-11:00
KWLC	ak	100	2D	Decorah, Iowa.	C—7:30-8:30; 9:45-10:45; 11:30-12:30; 2:30-3:30
WASH	ak	500	Ka	Grand Rapids, Mich.	E—7:00-mid.
WFBR	ae	500	R	Baltimore, Md.	E—7:10-1:00
WJDX	ae	1000	N	Jackson, Miss.	C—7:00-11:00
WOOD	ak	500	Ka	Grand Rapids, Mich.	E—7:00-mid.

## 1280 kilocycles 234.2 meters

KFBB	ae	1000	(2.5)	Great Falls, Mont.	M—8:00-3:00; 5:00-10:00
WCAM	ae	500	1	Camden, N. Y.	E—2-5
WCAP	ae	500	1	Asbury Park, N. J.	E—9-1; 8-mid.
WDOD	ae	1000	C(2.5)	Chattanooga, Tenn.	C—7:00-11:00
WIBA	ae	500	N (1)	Madison, Wis.	C—7:30-mid.
WORC	ak	500	CH	Worcester, Mass.	E—8:00-mid.
WRR	ak	500	C	Dallas, Texas.	C—7:00-11:00
WTNJ	ak	500	1	Trenton, N. J.	E—1:00-2:00; 5:00-8:00
XEFW	ak	70	.....	Tampico, Tams.	E—8:00-10:00; noon-2:00; 5:00-6:00; 7:00-10

## 1290 kilocycles 232.4 meters

CMHL	ak	20	.....	Cienfuegos, Cuba.	E—10:00-noon; 6:00-9:00
KDYL	ae	1000	NJ	Salt Lake City, Utah.	M—6:30-1:00
KLNC	z	100	D	Blytheville, Ark.	C
KTSA	ak	1000	C	San Antonio, Texas.	C—7:00-mid.
WEBC	ae	1000	N (2.5)	Superior, Wis.	C—7:00-mid.
WJAS	ak	1000	C (2.5)	Pittsburgh, Pa.	E—7:30-12:30
WNBZ	z	50	D	Saranac Lake, N. Y.	E
XEAC	z	100	1295	San Luis Potosi, S. L. P.	
WFAB	ak	1000	P ..	Jalapa, Ver.	C—8:00-9:00; 1:00-2:30; 8:00-11:30
.....	z	500	P	San Juan, P. R.	

## 1300 kilocycles 230.6 meters

CMKJ	z	20	.....	Guantanamo, Cuba.	E
HIZ	z	10	.....	Santo Domingo, D. R.	L
KALE	ak	500	3CT	Portland, Ore.	P—7:00-10:30; 2:30-5:00; 6:00-7:00
KFAC	ae	1000	..	Los Angeles, Calif.	P—7:00-mid.
KFH	ak	1000	C2	Wichita, Kans.	C—7-8:30; 9-11; 11:30-2; 3-11
KEJR	ag	500	3	Portland, Ore.	P—10:30-2:30; 5-6; 7-11
WBBR	aej	1000	1	Brooklyn, N. Y.	E—6:00-7:00; 10:00-noon; 6:00-8:00
WEVD	ak	500	1	New York, N. Y.	E—Silent
WFAB	ae	1000	1	New York, N. Y.	E—9:00-10:00; noon-3:00; 9:00-10:00
WHAZ	ae	500	1	Troy, N. Y.	E—Silent
WIOD	ae	1000	N	Miami, Fla.	E—7-15-mid. (W4XB)
WOQ	ae	1000	2	Kansas City, Mo.	C—6-7; 8:35-9:05; 11-11:30; 2-3; 11-mid.

# INDEX BY FREQUENCIES AND DIAL NUMBERS

With Tuesday's Time on the Air

## 1310 kilocycles 228.9 meters

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CFJC	ak	100	FLE	Kamloops, B. C.	P-7:30-10:30; noon-2:00; 6:00-7:30
CHCK	ak	50		Charlottetown, P. E. I.	A-Noon-1:30
CJKL	z	100		Kirkland Lake, Ont.	E
CJLS	z	100		Yarmouth, N. S.	A
KCKV	ak	50		Quebec, Que.	E-Noon-2:00; 6:30-11:00
KCRJ	ak	100	D	Jerome, Ariz.	M-7:30-9:30; noon-1:00; 4:30-6:00
KFBK	ak	100	C	Sacramento, Calif.	P-7:00-11:00
KFGQ	ak	100	7	Boone, Iowa.	C
KFPL	ak	100		Dublin, Texas.	C-6:30-8:30; 9:00-3:15; 7:00-10:45
KFPM	ae	15		Greenville, Texas.	C-7:45-9:00; 1:00-2:45; 6:00-9:00
KFXR	ak	100	(.25)	Oklahoma City, Okla.	C-7:30-2:00; 4:30-11:00
KFYO	ak	100	(.25)	Lubbock, Texas.	C-7:00-2:00; 4:00-10:00
KGBX	ae	100		Springfield, Mo.	C
KGCX	ak	100	(.25)	Wolf Point, Mont.	M-7:30-9:00; 11:30-3:00; 6:00-7:00
KGEZ	aj	100		Kalispell, Mont.	M-8:00-9:00
KGFW	ak	100		Kearney, Neb.	C-7:00-9:00
KIFH	z	100		Juneau, Alaska.	L
KIT	ak	100		Yakima, Wash.	P-7:00-11:00
KMED	ck	100		Medford, Ore.	P-8:00-8:00
KRMD	ak	100		Shreveport, La.	C-7:00-1:00; 5:00-8:00
KTSM	ak	100	a	El Paso, Texas.	M-7:00-1:30; 3:00-10:00
KXRO	ak	100		Aberdeen, Wash.	P-7:30-10:00
WAML	ak	100		Laurel, Miss.	C-7:00-10:00; 11:00-2:00; 4:00-7:00
WBEO	ae	100		Marquette, Mich.	C-9:30-1:15; 5:00-7:00
WBOW	ak	100		Terre Haute, Ind.	C-7:00-11:00
WBRE	ak	100		Wilkes Barre, Pa.	E-8:00-11:30
WCLS	ae	100	b	Joliet, Ill.	C-9:30-1:00; 5:00-8:00
WDAH	ck	100	Sa	El Paso, Texas.	M-Silent
WEBR	aej	100	(.25)	Buffalo, N. Y.	E-7:00-1:00
WEXL	ak	50		Royal Oak, Mich.	E-7:30-5:00
WFBG	ae	100	3	Altoona, Pa.	E-10:30-4:30; 7:00-10:00
WFDF	ak	100	K	Flint, Mich.	E-7:00-mid
WGAL	ae	100	5	Lancaster, Pa.	E-9:30-2:30; 4:30-6:00
WGH	ae	100		Newport News, Va.	E-7:00-1:00; 5:00-11:00
WHAT	ak	100	4	Philadelphia, Pa.	E-9:00-11:00; 1:00-2:00; 8:30-mid.
WIAS	ak	100	7	Ottumwa, Iowa.	C-7:00-11:00
WJAC	ae	100	3	Johnstown, Pa.	E-9:00-10:00; 4:30-7:00
WKBC	ak	100	(.25)	Birmingham, Ala.	C-7:00-10:00
WLBC	ak	100	b	Muncie, Ind.	C-7:00-10:00
WMBO	ak	10		Auburn, N. Y.	E-9:00-9:00
WNBH	ae	100	(.25)	New Bedford, Mass.	E-8:00-2:00; 4:00-10:00
WOL	ae	100		Washington, D. C.	E-7:00-mid.
WRAW	ak	100	5	Reading, Pa.	E-7:00-9:30; 6:00-mid.
WROL	ak	100		Knoxville, Tenn.	C-7:00-1:00; 4:00-11:00
WSAJ	ae	100		Grove City, Pa.	E-7:15-8:15
WSJS	ak	100	C	Winston-Salem, N. C.	E-7:45-mid.
WTEL	ah	100	4	Philadelphia, Pa.	E-7:00-9:00; noon-1:00; 5:00-8:30
WTJS	ak	100	(.25)	Jackson, Tenn.	C-7:00-2:00; 4:00-10:00
WTRC	ak	50	6 (.1)	Elkhart, Ind.	C-6:00-7:30
XEFB	ak	100	1315	Monterrey, N. L.	C-11:00-2:00; 6:00-11:00
XEL	ak	250		Morelia, Mich.	C-2:00-3:30; 9:00-10:00

## 1320 kilocycles 227.1 meters

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CMCY	ak	500	1325	Havana, Cuba.	E
KGHF	ak	250	(.5)	Pueblo, Colo.	M-6:30-9:30
KGMB	ak	250	C	Honolulu, T. H.	L-6:00-11:00
KID	ae	250	(.5)	Idaho Falls, Idaho.	M-6:00-11:00
WADC	ae	1000	C	Akron, Ohio.	E-8:00-mid.
WSMB	ak	500	N	New Orleans, La.	C-7:00-mid.

## 1330 kilocycles 225.4 meters

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CMJI	ak	45	1335	Ciego de Avila, Cuba.	E
KGB	agj	1000	CT	San Diego, Calif.	P-7:00-1:00
KMO	ak	250		Tacoma, Wash.	P-6:45-11:00
KSCJ	aj	1000	1C (.25)	Sioux City, Iowa.	C-7:30-11:00
WDRG	ae	1000	CH	Hartford, Conn.	E-8:00-mid.
WSAI	ak	1000	R (.25)	Cincinnati, Ohio.	E-8:00-mid.
WTAQ	ae	1000	1C	Eau Claire, Wis.	C-7:00-8:00

## 1340 kilocycles 223.7 meters

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KFPY	ak	1000	C	Spokane, Wash.	P-6:45-mid.
KGDY	ak	250		Huron, S. D.	C
KGNO	ak	250		Dodge City, Kans.	C-6:30-9:00
WCOA	ae	500		Pensacola, Fla.	E-9:00-10:00
WLEC	z	250	(.5)	Portland, Maine.	E-(Mail returned)
WSPD	ae	1000	C	Toledo, Ohio.	E-7:00-1:00

KCYS.  
**1340**  
**DIAL**

CUT OUT  
ON DOTTED LINES

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With Tuesday's Time on the Air

## 1350 kilocycles 222.1 meters

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KIDO	ak	1000	.....	Boise, Idaho.	M—8:00-9:30
KWK	ak	1000	B	St. Louis, Mo.	C—7:00-mid.
TGW	ak	500	.....	Guatemala City, Gua.	L—Noon-1:00; 6:00-7:00; 9:00-11:00
WAWZ	ae	250	1	Zarephath, N. J.	E—7:45-8:45; 5:00-6:30
WBNX	ae	250	1	New York, N. Y.	E—6:00-7:30; 9:00-1:00
WBHC	ae	500	D	Charlottesville, Va.	E

## 1360 kilocycles 220.4 meters

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CMJP	ak	75	.....	Moron, Cuba.	E—10:00-noon; 8:00-10:00
KGER	ak	1000	.....	Long Beach, Calif.	P—6:00-mid.
KGR	ak	500	N (1)	Butte, Mont.	M—7:00-mid.
WCSC	ae	500	.....	Charleston, S. C.	E—8:00-10:30; noon-2:00; 7:00-10:00
WFBL	ak	1000	C (2.5)	Syracuse, N. Y.	E—8:00-1:00
WGES	ae	500	.....	Chicago, Ill.	C—5:45-11:00; 5:00-8:00
WQBC	ak	500	.....	Vicksburg, Miss.	C

## 1370 kilocycles 218.8 meters

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CHPR	z	100	.....	St. John, N. B.	A
CMCN	z	250	1375	Havana, Cuba.	E
CMCR	ak	150	1375	Havana, Cuba.	E—Noon-1:00; 4:00-6:00; 8:00-9:00
CMGE	z	30	1375	Cardenas, Cuba.	E
KCRC	ak	100	2(.25)	Enid, Okla.	C—6:00-9:00; 11:00-2:00; 5:00-7:45; 10:00-mid.
KFBL	ae	50	3	Everett, Wash.	P—9:00-noon; 3:00-6:00; 9:00-mid.
KFJM	ak	100	.....	Grand Forks, N. D.	C—7:00-9:00
KFJZ	ae	100	.....	Fort Worth, Texas.	C—7:00-11:00
KGAR	ae	100	(.25)	Tucson, Ariz.	M—7:00-9:00
KGFG	bk	100	2	Oklahoma City, Okla.	C
KGFL	ak	100	4	Roswell, N. M.	M—6:00-9:30; 2:00-7:30
KGKL	ak	100	.....	San Angelo, Texas.	C—8:00-4:30; 6:00-10:00
KICA	ak	100	4	Clovis, N. M.	M—9:30-2:00; 7:30-9:30
KLUF	z	100	.....	Galveston, Texas.	C
KMAC	ak	100	5	San Antonio, Texas.	C—7:00-8:30; 10:00-11:00; noon-1:30; 4:00-6:00; 7:00-8:00; 10:00-12:30
KONO	ak	100	5	San Antonio, Texas.	C—6:00-7:00; 8:00-10:00; 11:00-noon; 1:30-4:00; 6:00-7:00; 8:00-10:00
KOOS	ae	100	.....	Marshfield, Ore.	P—7:00-9:00
KRE	ak	100	.....	Berkeley, Calif.	P—6:30-9:30; noon-3:00; 6:00-9:00
KSO	ak	100	B(.25)	Des Moines, Iowa.	C—6:30-1:00
KUJ	ak	100	.....	Walla Walla, Wash.	P—6:45-9:00
KVL	ak	100	3	Seattle, Wash.	P—6:00-9:00; noon-3:00; 6:00-9:00; mid.-1:30
KWKC	z	100	.....	Kansas City, Mo.	C
WBTM	ak	100	7	Danville, Va.	E—11:00-1:00; 6:30-10:00
WCBM	ae	100	(.25)	Baltimore, Md.	E—7:00-mid.
WDAS	ae	100	(.25)	Philadelphia, Pa.	E—9:00-11:00
WGL	ae	100	C	Fort Wayne, Ind.	C—6:30-mid.
WGLC	ak	100	C	Hudson Falls, N. Y.	E—7:30-mid.
WHBD	ak	100	.....	Mount Orab, Ohio.	E—8:00-11:30; noon-9:00
WHBQ	ak	100	.....	Memphis, Tenn.	C—7:55-2:00; 4:00-10:30
WHDF	ak	100	(.25)	Calumet, Mich.	E—7:00-9:00; 11:30-1:30; 5:30-8:30
WHET	ak	100	.....	Dothan, Ala.	C—9:00-sunset
WIBM	ae	100	1K	Jackson, Mich.	E—7:30-9:00
WJBK	ae	50	1	Detroit, Mich.	E—7:00-sunset; 9:00-mid.
WJTL	ae	100	.....	Atlanta, Ga.	E
WLEY	ak	100	(.25)	Lexington, Mass.	E—Noon-3:00; 6:00-9:00
WLVA	ck	100	7	Lynchburg, Va.	E—7:00-11:00; 1:00-6:30
WMBR	ak	100	.....	Tampa, Fla.	E—7:00-9:30
WPFB	ak	100	.....	Hattiesburg, Miss.	C
WQDM	ae	100	D	St. Albans, Vt.	E
WRAC	ak	100	.....	Williamsport, Pa.	E—8:30-3:00; 5:00-10:30
WRAM	ak	100	.....	Wilmington, N. C.	E—7:30-mid.
WRDO	ae	100	.....	Augusta, Maine.	E—9:00-1:00; 4:30-8:30
WRJN	ak	100	.....	Racine, Wis.	C—9:00-2:30; 4:00-10:30
WSVS	ae	50	D	Buffalo, N. Y.	E—8:30-10:00; 2:00-3:00
XEFZ	ae	100	.....	Mexico City, D. F.	C

## 1380 kilocycles 217.3 meters

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CMJC	z	150	1382	Camaguey, Cuba.	E
KOH	ak	500	C	Reno, Nev.	P—8:00-10:00
KOV	ak	500	2C	Pittsburgh, Pa.	E—7:00-10:00
TGX	z	75	.....	Guatemala City, Guat.	
WKBH	ae	1000	C	LaCrosse, Wis.	C—7:30-10:00
WSMK	ak	200	2	Dayton, Ohio.	E—7:00-8:00; 10:00-mid.
XETB	z	125	.....	Torreón, Coah.	

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## 1390 kilocycles 215.7 meters

CJRC	z	100	.....	Middlechurch, Man.	C				
HIH	ak	15	1395	San Pedro de Macoris, D. R.	L-12:15-2:00				
KLRA	ae	1000	C	Little Rock, Ark.	C-7:00-mid.				
KOY	ae	500	(1)	Phoenix, Ariz.	M				
WHK	ae	1000	C(2.5)	Cleveland, Ohio.	E-7:00-mid.				

## 1400 kilocycles 214.2 meters

KLO	ah	500	C	Ogden, Utah.	M-8:30-10:30				
KTUL	z	250	(.5)	Tulsa, Okla.	C				
WARD	ak	500	2	Brooklyn, N. Y.	E				
WBAA	z	500	1	Lafayette, Ind.	C-Silent				
WBBC	ae	500	2	Brooklyn, N. Y.	E-7:11:30; 6-7:30				
WKBF	ak	500	1N	Indianapolis, Ind.	C-6:00-mid.				
WLTH	ak	500	2	Brooklyn, N. Y.	E-11:30-1:30; 7:30-9				
WVFW	ak	500	2	Brooklyn, N. Y.	E				
XEFV	ae	100	.....	Jaurex, Chih.	C-9:00-3:00; 5:00-11:00				

## 1410 kilocycles 212.6 meters

CKFC	ak	50	5	Vancouver, B. C.	P-3-4:30; 8:30-10:30				
CKMO	z	100	5	Vancouver, B. C.	P-7:30-3; 4:30-11				
CMCH	ak	50	.....	Havana, Cuba.	E				
CMCM	z	15	.....	Havana, Cuba.	E				
KFLV	ak	500	4	Rockford, Ill.	C-9:12:30; 4-6; 8:30-mid.				
KGRS	ae	1000	1	Amarillo, Texas.	C-6-8; 10-12:30; 3-4:30; 6-7; 9-10				
WAAB	ae	500	CH	Boston, Mass.	E-8:30-mid.				
WBCEM	ae	500	K	Bay City, Mich.	E-8:00-mid.				
WDAG	ae	1000	1	Amarillo, Texas.	C-8-10; 12:30-3; 4:30-6; 7:30-9; 10-mid.				
WHBL	ae	500	4	Sheboygan, Wis.	C-7-10; 12:30-3; 6-8; 10-mid.				
WHIS	ak	250	2	Bluefield, W. Va.	E-7:00-9:00; noon-3:00; 6:00-8:00				
WODX	ae	500	3C	Mobile, Ala.	C-7:00-6:15; 7:45-10:30				
WRBX	ae	250	2	Roanoke, Va.	E				
WSFA	ck	500	3C	Montgomery, Ala.	C-6:00-7:45				

## 1420 kilocycles 211.1 meters

CKGB	z	100	.....	Timmons, Ont.	E				
KABC	ak	100	.....	San Antonio, Texas.	C-6:00-mid.				
KBPS	aj	100	4	Portland, Ore.	P-11:00-12:30; 3:00-5:00				
KCMC	ak	100	.....	Texarkana, Ark.	C-7:00-2:00; 4:00-9:00				
KFIZ	ak	100	.....	Fond du Lac, Wis.	C-10:00-1:00; 4:00-10:00				
KGFF	ak	100	.....	Shawnee, Okla.	C-7:30-3:00; 5:00-9:00				
KGGC	ak	100	.....	San Francisco, Calif.	P-9:00-1:00; 4:00-9:00				
KGIW	ak	100	1	Alamosa, Colo.	M				
KGIX	ak	100	.....	Las Vegas, Nev.	M				
KICK	z	100	.....	Carter Lake, Iowa.	C-(Mail returned)				
KIDW	z	100	1	Lamar, Colo.	M-8:00-10:00; 7:00-10:00				
KORE	ae	100	.....	Eugene, Ore.	P-7:45-9:00				
KUMA	ak	100	.....	Yuma, Ariz.	M-7:00-9:00; 11:00-2:00; 6:00-10:00				
KWCR	ak	100	B(.25)	Cedar Rapids, Iowa.	C-7:00-Mid.				
KXL	ae	100	4	Portland, Ore.	P-7:00-1:00				
WACO	ak	100	C	Waco, Texas.	C-8:00-2:00; 5:00-10:30				
WAGM	ae	100	.....	Presque Isle, Maine.	E-11:00-1:00; 4:00-7:00				
WAMC	ae	100	.....	Anniston, Ala.	C-7:00-9:00				
WAZL	ak	100	2	Hazleton, Pa.	E-11:00-9:00				
WEED	ak	100	D	Greenville, N. C.	E-9:00-6:00				
WEHS	ak	100	a	Cicero, Ill.	C-4:00-6:00				
WELL	ak	50	.....	Battle Creek, Mich.	E-9:00-9:30				
WENC	ak	100	DY	Americus, Ga.	C-7-6:15				
WHDL	ae	100	D	Tupper Lake, N. Y.	E				
WHFC	ae	100	a	Cicero, Ill.	C-7:00-1:30; 6:00-9:00; 11:00-1:00				
WILM	aj	100	2	Wilmington, Del.	E-7:00-11:00; 2:00-5:00; 9:00-mid.				
WJBO	z	100	D	Baton Rouge, La.	C				
WJMS	ak	100	.....	Ironwood, Mich.	C-7:30-1:30; 4:30-7:00				
WKBI	ak	100	a	Cicero, Ill.	C-1:30-4:00				
WLBK	ak	100	.....	Kansas City, Kans.	C-7:00-11:00				
WMAS	ak	100	CH(.25)	Springfield, Mass.	E-8:00-mid.				
WMBE	ag	100	(.25)	Detroit, Mich.	E-7:30-mid.				
WMBH	ak	100	(.25)	Joplin, Mo.	C-7:30-2:00; 6:00-9:30				
WNRA	ak	100	D	Muscle Shoals, Ala.	C-7:00-10:00				
WPAD	ak	100	.....	Paducah, Ky.	C				
WSPA	ae	100	(.25)	Spartanburg, S. C.	E-7:30-2:00; 4:00-9:30				
WTBO	ae	100	(.25)	Cumberland, Md.	E-9:00-7:00				

**KCY.S.  
1430  
DIAL**

## 1430 kilocycles 209.7 meters

KECA	ak	1000	N	Los Angeles, Calif.	P-7:00-11:00				
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# INDEX BY FREQUENCIES AND DIAL NUMBERS

With Tuesday's Time on the Air

**KGNF** ak 500 D  
**WBAC** ak 500 1 (1)  
**WCAH** ae 500 1C  
**WFEA** ae 500 CH  
**WHCC** ae 500 C  
**WHP** ak 500 1C(1)  
**WNBR** ae 500 .....  
**WOKO** ae 500 C

North Platte, Neb. C-7:00-sunset  
 Harrisburg, Pa. E  
 Columbus, Ohio. E-8:00-mid.  
 Manchester, N. H. E-7:30-11:00  
 Rochester, N. Y. E  
 Harrisburg, Pa. E-8:30-10:30; 11:30-1:30; 2:30-4:00; 4:30-1:00  
 Memphis, Tenn. C-8:00-1:00; 3:00-10:00  
 Albany, N. Y. E-7:30-1:00

## 1440 kilocycles 208.2 meters

**CMBL** ak 200 1445  
**KDFN** ak 500 .....  
**KLS** ae 250 D  
**KXYZ** ak 250 .....  
**TIFS** z 7.5 1441  
**WBIG** ae 500 C(1)  
**WCBA** aj 250 a  
**WMBD** ae 500 3C(1)  
**WSAN** aj 250 a  
**WTAD** ak 500 3

Havana, Cuba. E-Mail returned  
 Casper, Wyo. M-7:30-2:00; 3:30-9:00  
 Oakland, Calif. P-8:00-sunset  
 Houston, Texas. C-6:30-1:00; 2:30-11:00  
 Cartago, C. R. L  
 Greensboro, N. C. E-8:00-11:00  
 Allentown, Pa. E-7:30-mid.  
 Peoria, Ill. C-6:00-11:00; 8:00-mid.  
 Allentown, Pa. E-7:30-mid.  
 Quincy, Ill. C-11:00-8:00

## 1450 kilocycles 206.8 meters

**CFCT** ae 50 .....  
**CKX** ak 500 F  
**KTBS** ck 1000 N  
**TIEP** z 7.5 .....  
**WGAR** ak 500 B(1)  
**WHOM** ae 250 .....  
**WSAR** ae 250 .....  
**WTFI** ak 500 .....  
**XEAB** ak 7.5 .....

Victoria, B. C. P-8:00-12:30; 6-8; mid.-2:00  
 Brandon, Man. C-7:00-10:30  
 Shreveport, La. C-7:00-mid.  
 San Jose, C. R. L  
 Cleveland, Ohio. E-6:30-1:00  
 Jersey City, N. J. E-8:00-mid.  
 Fall River, Mass. E-8:00-3:30; 5:00-10:00  
 Athens, Ga. E-8:00-9:00  
 Neuvo Laredo, Tams. C-10:00-3:00; 4:00-7:00

## 1460 kilocycles 205.4 meters

**KSTP** ae 10000 N (25)  
**WJSV** ak 10000 C

St. Paul, Minn. C-6:45-12:30  
 Washington, D. C. E-6:30-mid.

## 1470 kilocycles 204.0 meters

**KGA** ak 5000 N  
**WLAC** ae 5000 C

Spokane, Wash. P-6:00-mid.  
 Nashville, Tenn. C-7:00-mid.

## 1480 kilocycles 202.6 meters

**CMBK** z 15 1485  
**KOMA** ak 5000 C  
**WKBW** ae 5000 C

Havana, Cuba. E  
 Oklahoma City, Okla. C-6:30-mid.  
 Buffalo, N. Y. E-10:00-1:00

## 1490 kilocycles 201.2 meters

**WCKY** ae 5000 BY

Covington, Ky. E-7:00-mid.

## 1500 kilocycles 199.9 meters

**CRCS** z 100 F  
**KDB** ak 100 CT  
**KGFI** ak 100 (.25)  
**KGFK** ak 100 .....  
**KGKB** ak 100 .....  
**KGKY** ck 100 .....  
**KNOW** ak 100 .....  
**KPJM** ak 100 .....  
**KPQ** aj 100 .....  
**KREG** ak 100 .....  
**KXO** al 100 .....  
**WCNW** ak 100 1  
**WFDV** ak 100 .....  
**WHEF** z 100 P (.25)  
**WKBB** ae 100 .....  
**WKBV** z 100 .....  
**WKWB** ak 100 .....  
**WKEU** ak 100 .....  
**WMBQ** ae 100 1  
**WMPC** ak 100 .....  
**WNBF** ae 100 .....  
**WOPJ** ae 100 .....  
**WPEN** ck 100 (.25)AZ  
**WRDW** ae 100 .....  
**WSYB** ae 100 .....  
**WWRL** ak 100 1

Chicoutimi, Que. E-6:30-11:30  
 Santa Barbara, Calif. P-7:30-mid.  
 Corpus Christi, Tex. C-7:00-3:00; 6:00-10:00  
 Moorhead, Minn. C-8:00-9:00  
 Tyler, Texas. C-8:00-10:00; noon-2:00; 5:00-6:00; 7:30-9:00  
 Scottsbluff, Neb. M-9:00-1:30; 5:30-9:00  
 Austin, Texas. C-7:30-2:00; 4:00-10:00  
 Prescott, Ariz. M-7:00-8:00  
 Wenatchee, Wash. P-7:00-10:00  
 Santa Ana, Calif. P-9:00-11:00  
 El Centro, Calif. P-7:00-2:00; 4:00-9:00  
 Brooklyn, N. Y. E-2:00-6:00  
 Rome, Ga. C-7:00-10:00; noon-3:00; 6:00-9:00  
 Kosciusko, Miss. C  
 East Dubuque, Ill. C-7:00-10:15; 11:45-1:30; 5:30-9:00  
 Richmond, Ind. C  
 Ludington, Mich. E-9:00-9:00  
 LaGrange, Ga. C-10:00-noon; 3:00-6:00  
 Brooklyn, N. Y. E-9:00-11:00; 8:00-mid.  
 Lapeer, Mich. E-10:00-2:00; 3:30-6:00; 7:00-10:30  
 Binghamton, N. Y. E-7:30-10:00  
 Bristol, Tenn. E-7:00-2:00; 3:00-8:00  
 Philadelphia, Pa. E-7:30-10:00  
 Augusta, Ga. E  
 Rutland, Vt. E-10:00-1:00; 5:00-9:00  
 Woodside, N. Y. E-8-9; 11-2; 6-8

(Continued on page 91)

## INDEX BY LOCATIONS

Frequency in kilocycles in second column. Night power in watts in third column. Network affiliations in fourth column: C Columbia, R National Red, B National Blue, N National Red and Blue, F Canadian.

<b>ALABAMA</b>			<b>Fresno</b>			<b>CONNECTICUT</b>			<b>Twin Falls</b>					
Anniston			KMJ	580	500	C	<b>Bridgeport</b>			KTFI	1240	1000		
WAMC	1420	100	<b>Glendale</b>				WICC	600	250	<b>ILLINOIS</b>				
<b>Birmingham</b>			KIEV	850	100		<b>Hartford</b>			<b>Carthage</b>				
WAFI	1140	5000	<b>Hollywood</b>				WDRC	1330	1000	WCZ	1070	50		
WBRC	930	500	KFWB	950	1000		WTIC	1060	50000	<b>Chicago</b>				
WBKB	1310	100	KMTR	570	500		<b>Storrs</b>			KYW	1020	10000		
<b>Dathan</b>			KNX	1050	25000		WCAC	600	250	WAAF	920	500		
WHET	1370	100	<b>Long Beach</b>				<b>DELAWARE</b>			WBBM	770	25000		
<b>Gadsden</b>			KFOX	1250	1000		<b>Wilmington</b>			WCFL	970	1500		
WJBY	1210	100	KGER	1360	1000		WDEL	1120	250	WCRW	1210	100		
<b>Huntsville</b>			<b>Los Angeles</b>				WILM	1420	100	WEDC	1210	100		
WBHS	1200	100	KECA	1430	1000	N	<b>DISTRICT OF COLUMBIA</b>							
<b>Mobile</b>			KFAC	1300	1000		<b>Washington</b>			WENR	870	50000		
WODX	1410	500	KFI	1400	50000	N	WJSV	1460	10000	WGES	1360	500		
<b>Montgomery</b>			KFSG	1120	500		WMAL	630	250	WGN	720	50000		
WSEA	1410	500	KFVD	1000	250		WOL	1310	100	WJJD	1130	20000		
<b>Muscle Shoals</b>			KGFJ	1200	100		WRC	950	500	WLS	870	50000		
WNRA	1420	100	KHJ	900	1000	C	<b>FLORIDA</b>							
<b>ALASKA</b>			KRKD	1120	500		<b>Clearwater</b>			WENR	870	50000		
<b>Anchorage</b>			KTM	780	500		WFLA	620	1000	WHS	1420	100		
KFQD	600	250	<b>Oakland</b>				<b>Gainesville</b>			WHFC	1420	100		
<b>Juneau</b>			KLS	1440	250		WRUF	830	5000	WKBI	1420	100		
KIFH	1310	100	KLX	880	1000		<b>Jacksonville</b>			<b>Decatur</b>				
<b>Ketchikan</b>			KROW	930	500		WJAX	900	1000	WJBL	1200	100		
KGBU	900	500	<b>Pasadena</b>				<b>Miami</b>			<b>East Dubuque</b>				
<b>ARIZONA</b>			KPPC	1210	50		WIOD	1300	1000	WKBB	1500	100		
<b>Jerome</b>			<b>Sacramento</b>				WQAM	560	1000	<b>Harrisburg</b>				
KCRJ	1310	100	KFBK	1310	100	C	<b>Orlando</b>			WEBQ	1210	100		
<b>Lowell</b>			<b>San Bernardino</b>				WDDB	580	250	<b>Joliet</b>				
KSUN	1200	100	KFXM	1210	100		<b>Pensacola</b>			WCLS	1310	100		
<b>Phoenix</b>			<b>San Diego</b>				WCOA	1340	500	<b>LaSalle</b>				
KOY	1390	500	KFSD	600	1000	N	<b>St. Petersburg</b>			WJBC	1200	100		
KTAR	620	5000	KGB	1330	1000	C	WSUN	620	1000	<b>Peoria</b>				
<b>Prescott</b>			<b>San Francisco</b>				<b>Tampa</b>			WMBD	1440	500		
KPJM	1500	100	KFRG	610	1000	C	WDAE	1220	1000	<b>Quincy</b>				
<b>Tucson</b>			KFWI	930	500		WMBR	1370	100	WTAD	1440	500		
KGAR	1370	100	KGGC	1420	100		<b>GEORGIA</b>							
KVOA	1260	500	KGO	790	7500	N	<b>Americus</b>			KFLV	1410	500		
<b>Yuma</b>			KJBS	1070	100		WENC	1420	100	<b>Rock Island</b>				
KUMA	1420	100	KPO	680	50000	N	<b>Athens</b>			WHBF	1210	100		
<b>ARKANSAS</b>			KTAB	560	1000		WTFI	1450	500	<b>Springfield</b>				
<b>Blytheville</b>			KYA	1230	1000	N	<b>Atlanta</b>			WCBS	1210	100		
KLGN	1290	100	<b>San Jose</b>				WGST	890	250	WTAX	1210	100		
<b>Fayetteville</b>			KQW	1010	500		WJTL	1370	100	<b>Tusculoa</b>				
KUOA	1260	1000	<b>Santa Ana</b>				WSB	740	50000	WDZ	1070	100		
<b>Fort Smith</b>			KREG	1500	100		<b>Augusta</b>			<b>Urbana</b>				
KFPW	1210	100	<b>Santa Barbara</b>				WRDW	1500	100	WILL	890	250		
<b>Hot Springs</b>			KDB	1500	100	C	<b>Columbus</b>			<b>Zion</b>				
KTHS	1040	10000	<b>Stockton</b>				WRBL	1200	100	WCBD	1080	5000		
.....	1500	100	KGDM	1100	250		<b>LaGrange</b>			<b>INDIANA</b>				
<b>Jonesboro</b>			KWG	1200	100	C	WKEU	1500	100	<b>Anderson</b>				
KBTM	1200	100	<b>COLORADO</b>						WMAZ	1180	500	WHBU	1210	100
<b>Little Rock</b>			<b>Alamossa</b>				<b>Rome</b>			<b>Elkhart</b>				
KARK	890	250	KGJW	1420	100		WFDV	1500	100	WTRC	1310	50		
KGHI	1200	100	<b>Colorado Springs</b>				<b>Savannah</b>			WGBF	630	500		
KLRA	1390	1000	KVOR	1270	1000	C	WTOC	1260	500	<b>Fort Wayne</b>				
<b>TEXAS</b>			<b>Denver</b>				<b>Thomasville</b>			WGL	1370	100		
<b>Texarkana</b>			KFEL	920	500		WQDX	1210	100	WOWO	1160	10000		
KCMC	1420	100	KLZ	560	1000	C	<b>HAWAII</b>							
<b>CALIFORNIA</b>			KOA	830	12500	N	<b>Hilo</b>			KWFV	1210	100		
<b>Bakersfield</b>			KPOF	880	500		<b>Honolulu</b>			KGMB	1320	250		
KERN	1200	100	<b>Grand Junction</b>				KGU	750	2500	<b>IDAHO</b>				
<b>Berkeley</b>			KFXJ	1200	100		<b>Boise</b>			KIDO	1350	1000		
KRE	1370	100	<b>Greeley</b>				<b>Idaho Falls</b>			KID	1320	250		
<b>Beverly Hills</b>			KFKA	880	500		<b>Nampa</b>			<b>Pocatello</b>				
KMPK	710	500	<b>Lamar</b>				KFXD	1200	100	KSEI	890	250		
<b>Burbank</b>			KIDW	1420	100		<b>UTAH</b>							
KELW	780	500	<b>Pueblo</b>				<b>Albany</b>							
<b>El Centro</b>			KGHF	1320	250		<b>Provo</b>							
KXO	1500	100	<b>Yuma</b>				<b>St. George</b>							
<b>Eureka</b>			KGEK	1200	100		<b>Utah Valley</b>							
KIEM	1210	100										<b>West Valley</b>		

# INDEX BY LOCATIONS

WSBT 1230 500 C  
**Terre Haute**  
 WBOW 1310 100  
**West Lafayette**  
 WBAA 1400 500  
**IOWA**  
**Ames**  
 WOI 640 5000  
**Boone**  
 KFGQ 1310 100  
**Carter Lake**  
 KICK 1420 100  
**Cedar Rapids**  
 KWCR 1420 100 B  
**Council Bluffs**  
 KOIL 1260 1000 B  
**Decorah**  
 KGCA 1270 100  
 KWLC 1270 100  
**Des Moines**  
 KSO 1370 100 B  
 WOC- 1000 50000 R  
 WHO  
**Iowa City**  
 WSUI 880 500  
**Marshalltown**  
 KFJB 1200 100  
**Ottumwa**  
 WIAS 1310 100  
**Shenandoah**  
 KENF 890 500  
 KMA 930 500  
**Sioux City**  
 KSCJ 1330 1000 C  
**Waterloo**  
 WMT 600 500 C  
**KANSAS**  
**Abilene**  
 KFBI 1050 5000  
**Coffeyville**  
 KGGF 1010 500  
**Dodge City**  
 KGNO 1340 250  
**Kansas City**  
 WLBK 1420 100  
**Lawrence**  
 KFKU 1220 500  
 WREN 1220 1000 B  
**Manhattan**  
 KSAC 580 500  
**Topeka**  
 WIBW 580 1000 C  
**Wichita**  
 KFH 1300 1000 C  
**KENTUCKY**  
**Covington**  
 WCKY 1490 5000 B  
**Louisville**  
 WAVE 940 1000  
 WHAS 820 50000 C  
 WLAP 1200 100  
**Paducah**  
 WPAD 1420 100  
**LOUISIANA**  
**Baton Rouge**  
 WJBO 1420 100  
**Monroe**  
 KMLB 1200 100  
**New Orleans**  
 WBBX 1200 100  
 WDSU 1250 1000 C  
 WJBW 1200 100  
 WSMB 1320 500 N  
 WWL 850 10000  
**Shreveport**  
 KRMD 1310 100  
 KTBS 1450 1000 N

KWEA 1210 100  
 KWKH 850 10000  
**MAINE**  
**Augusta**  
 WRDO 1370 100  
**Bangor**  
 WABI 1200 100  
 WLBZ 620 500 C  
**Portland**  
 WCSH 940 1000 R  
 WLEC 1340 250  
**Presque Isle**  
 WAGM 1420 100  
**MARYLAND**  
**Baltimore**  
 WBAL 1060 10000 B  
 WCAO 600 250 C  
 WCBM 1370 100  
 WFBR 1270 500 R  
**Cumberland**  
 WTBO 1420 100  
**Hagerstown**  
 WJEJ 1210 100  
**MASSACHUSETTS**  
**Babson Park**  
 WBSO 920 500  
**Boston**  
 WAAB 1410 500 C  
 WBZ 990 50000 B  
 WEEL 590 1000 R  
 WHDH 830 1000  
 WNAC 1230 1000 C  
**Chelsea**  
 ..... 1500 100  
**Fall River**  
 WSAR 1450 250  
**Lexington**  
 WLEY 1370 100  
**New Bedford**  
 WNBH 1310 100  
**Springfield**  
 WBZA 990 1000 B  
 WMAS 1420 100 C  
**Worcester**  
 WORC 1280 500 C  
 WTAG 580 750 R  
**MICHIGAN**  
**Battle Creek**  
 WELL 1420 50  
**Bay City**  
 WBCM 1410 500  
**Calumet**  
 WHDF 1370 100  
**Detroit**  
 WJBK 1370 50  
 WJR 750 10000 B  
 WMBK 1420 100  
 WWJ 920 1000 R  
 WXYZ 1240 1000  
**East Lansing**  
 WKAR 1040 1000  
**Flint**  
 WEFD 1310 100  
**Grand Rapids**  
 WASH 1270 500  
 WOOD 1270 500  
**Ironwood**  
 WJMS 1420 100  
**Jackson**  
 WJBM 1370 100  
**Kalamazoo**  
 WKZO 590 1000  
**Lapeer**  
 WMPC 1500 100  
**Ludington**  
 WKBZ 1500 100  
**Marquette**  
 WBEO 1310 100  
**Royal Oak**  
 WEXL 1310 50

**MINNESOTA**  
**Fergus Falls**  
 KGDE 1200 100  
**Minneapolis**  
 WCCO 810 50000 C  
 WDGY 1180 1000  
 WLB 1250 1000  
 WRHM 1250 1000  
**Moorhead**  
 KGFK 1500 100  
**Northfield**  
 WCAL 1250 1000  
**St. Paul**  
 KSTP 1460 10000 N  
**MISSISSIPPI**  
**Greenville**  
 WKFI 1210 100  
**Hattiesburg**  
 WPFB 1370 100  
**Jackson**  
 WJDX 1270 1000 N  
**Kosciusko**  
 WHEF 1500 100  
**Laurel**  
 WAML 1310 100  
**Meridian**  
 WCOC 880 500  
**Mississippi City**  
 WGCM 1210 100  
**Tupelo**  
 WJEM 990 500  
**Vicksburg**  
 WQBC 1360 500  
**MISSOURI**  
**Cape Girardeau**  
 KFVS 1210 100  
**Columbia**  
 KFRU 630 500  
**Jefferson City**  
 WOS 630 500  
**Joplin**  
 WMBH 1420 100  
**Kansas City**  
 KMBC 950 1000 C  
 KWKC 1370 100  
 WDAF 610 1000 R  
 WHB 860 500  
 WOQ 1300 1000  
**St. Joseph**  
 KFEQ 680 2500  
**St. Louis**  
 KFUC 550 500  
 KMOX 1090 50000 C  
 KSD 550 500 R  
 KWK 1350 1000 B  
 WEW 760 1000  
 WIL 1200 100  
**Springfield**  
 KGBX 1310 100  
 KTWQ 560 500  
**MONTANA**  
**Billings**  
 KGHl 950 1000 N  
**Butte**  
 KGIR 1360 500 N  
**Great Falls**  
 KFBB 1280 1000  
**Kalispell**  
 KGEZ 1310 100  
**Missoula**  
 KGVO 1200 100  
**Wolf Point**  
 KGXC 1310 100  
**NEBRASKA**  
**Clay Center**  
 KMMJ 740 1000  
**Kearney**  
 KGFw 1310 100  
**Lincoln**  
 KFAB 770 5000 C

KFOR 1210 100  
**Norfolk**  
 WJAG 1060 1000  
**North Platte**  
 KGNF 1430 500  
**Omaha**  
 WAAW 660 500  
 WOW 590 1000 R  
**Scottsbluff**  
 KGKY 1500 100  
**York**  
 KGBZ 930 500  
**NEVADA**  
**Las Vegas**  
 KGIX 1420 100  
**Reno**  
 KOH 1380 500 C  
**NEW HAMPSHIRE**  
**Manchester**  
 WFEA 1430 500 C  
**Portsmouth**  
 WHEB 740 250  
**NEW JERSEY**  
**Asbury Park**  
 WCAP 1280 500 A  
**Atlantic City**  
 WPG 1100 5000 C  
**Camden**  
 WCAM 1280 500  
**Jersey City**  
 WAAT 940 300  
 WHOM 1450 250  
**Newark**  
 WGCP 1250 1000  
 WNEW 1250 1000  
 WOR 710 5000  
**Red Bank**  
 WJBI 1210 100  
**Trenton**  
 WTNJ 1280 500  
**Zarephath**  
 WAWZ 1350 250  
**NEW MEXICO**  
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 KOB 1180 10000  
**Clovis**  
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**Albany**  
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**Auburn**  
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**Binghamton**  
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**Brooklyn**  
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 WBBR 1300 1000  
 WCNW 1500 100  
 WLTH 1400 500  
 WMBQ 1500 100  
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**Buffalo**  
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 WKBW 1480 5000 C  
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<b>Hudson Falls</b> WGLC 1370 100 C	<b>Cincinnati</b> WFBF 1200 100 WKRC 550 1000 C WLW 700 50000 N WSAI 1330 1000 R	<b>Harrisburg</b> WBAK 1430 1000 WHP 1430 500 C WKBO 1200 100	<b>Vermillion</b> KUSD 890 500
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<b>Rochester</b> WHAM 1150 50000 B WHEC 1430 500 C	<b>Dayton</b> WSMK 1380 200	<b>Lancaster</b> WGLA 1310 100 WKJC 1200 100	<b>TENNESSEE</b>
<b>Saranac Lake</b> WNBZ 1290 50	<b>Mount Orab</b> WHBD 1370 100	<b>Philadelphia</b> WCAU 1170 50000 C WDAS 1370 100 WFI 560 500 R WHAT 1310 100 WIP 610 500 C WLIT 560 500 R WPN 1500 100 WRAX 1020 250 WTEL 1310 100	<b>Bristol</b> WPOI 1500 100
<b>Schenectady</b> WGY 790 50000 R	<b>Toledo</b> WSPD 1340 1000 C	<b>Pittsburgh</b> KDKA 980 50000 B KOV 1380 500 C WCAE 1220 1000 R WJAS 1290 1000 C WWSW 1500 100	<b>Chattanooga</b> WDDO 1280 1000 C
<b>Syracuse</b> WFBL 1360 1000 C WSYR 570 250 B	<b>Youngstown</b> WKBN 570 500 C	<b>Reading</b> WEEU 830 1000 WRAW 1310 100	<b>Jackson</b> WTJS 1310 100
<b>Troy</b> WHAZ 1300 500	<b>Zanesville</b> WALR 1210 100	<b>Scranton</b> WGBI 880 250 WQAN 880 250	<b>Knoxville</b> WNOX 560 1000 C WROL 1310 100
<b>Tupper Lake</b> WHDL 1420 100	<b>OKLAHOMA</b>	<b>Silverhaven</b> WNBO 1200 100	<b>Memphis</b> WHBQ 1370 100 WMC 780 500 N WNRB 1430 500 WREC 600 500 C
<b>Utica</b> WIBX 1200 100	<b>Elk City</b> KASA 1210 100	<b>Sunbury</b> WKOK 1210 100	<b>Nashville</b> WLAC 1470 5000 C WSM 650 50000 N
<b>White Plains</b> WFAS 1210 100	<b>Enid</b> KCRC 1370 100	<b>Wilkes-Barre</b> WBAK 1210 100 WBRB 1310 100	<b>Springfield</b> WSIX 1210 100
<b>Woodside</b> WWRL 1500 100	<b>Norman</b> WNAD 1010 500	<b>Williamsport</b> WRAK 1370 100	<b>TEXAS</b>
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<b>Asheville</b> WWNC 570 1000 N	<b>Ponca City</b> WBBZ 1200 100	<b>PHILIPPINES</b>	<b>Austin</b> KNOW 1500 100
<b>Charlotte</b> WBT 1080 50000 C WSOC 1210 100 N	<b>Shawnee</b> KGF 1420 100	<b>Manila</b> KZEG 618.5 1000 KZRM 618.5 50000	<b>Beaumont</b> KFDM 560 500
<b>Greensboro</b> WBIG 1440 500 C	<b>Tulsa</b> KTUL 1400 250 KVOO 1140 25000 N	<b>PORTO RICO</b>	<b>Brownsville</b> KWWG 1260 500
<b>Greenville</b> WEED 1420 100	<b>OREGON</b>	<b>San Juan</b> WKAQ 1240 1000 ..... 1290 500	<b>College Station</b> WTAW 1120 500
<b>Raleigh</b> WPTF 680 5000 N	<b>Corvallis</b> KOAC 550 1000	<b>RHODE ISLAND</b>	<b>Corpus Christi</b> KGFI 1500 100
<b>Wilmington</b> WRAM 1370 100	<b>Eugene</b> KORE 1420 100	<b>Providence</b> WEAN 780 500 C WJAR 890 500 R WPRO 1210 100	<b>Dallas</b> KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500 C
<b>Winston-Salem</b> WSJS 1310 100 C	<b>Klamath Falls</b> KFJI 1210 100	<b>SOUTH CAROLINA</b>	<b>Dublin</b> KFPL 1310 100
<b>NORTH DAKOTA</b>	<b>Marshfield</b> KOOS 1370 100	<b>Charleston</b> WCSC 1360 500	<b>El Paso</b> KTSM 1310 100 WDAH 1310 100
<b>Bismarck</b> KFYR 550 1000 N	<b>Medford</b> KMED 1310 100	<b>Columbia</b> WIS 1010 500 N	<b>Fort Worth</b> KFJZ 1370 100 KTAT 1240 1000 C WBAP 800 50000 N
<b>Devils Lake</b> KDRL 1210 100	<b>Portland</b> KALE 1300 500 C KBPS 1420 100 KEX 1180 5000 N KFJR 1300 500 KGW 620 1000 N KOIN 940 1000 C KRWJ 1060 500 KXL 1420 100	<b>Greenville</b> WFBC 1200 100	<b>Galveston</b> KLUF 1370 100
<b>Fargo</b> WDAY 940 1000 N	<b>PENNSYLVANIA</b>	<b>Spartanburg</b> WSPA 1420 100	<b>Greenville</b> KFPM 1310 15
<b>Grand Forks</b> KFJM 1370 100	<b>Allentown</b> WCBA 1440 250 WSAN 1440 250	<b>SOUTH DAKOTA</b>	<b>Harlingen</b> KRGV 1260 500
<b>Mandan</b> KGCU 1240 250	<b>Altoona</b> WFBG 1310 100	<b>Brookings</b> KFYD 550 500	<b>Houston</b> KPRC 920 1000 N KTRH 1120 1000 C KXYZ 1440 250
<b>Minot</b> KLPM 1240 250	<b>Carbondale</b> WNBW 1200 10	<b>Huron</b> KGDY 1340 250	<b>Lubbock</b> KFYO 1310 100
<b>OHIO</b>	<b>Erie</b> WLBW 1260 500 C	<b>Pierre</b> KGFY 630 200	<b>San Angelo</b> KGKL 1370 100
<b>Akron</b> WADC 1320 1000 C WJW 1210 100	<b>Glenside</b> WIBG 970 100	<b>Rapid City</b> WCAT 1200 100	<b>San Antonio</b> KABC 1420 100 KMAC 1370 100 KONO 1370 100 K TSA 1290 1000 C WOAI 1190 50000 N
			<b>Tyler</b> KGKB 1500 100
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**Salt Lake City**  
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**Janesville**  
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**Madison**  
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**Manitowoc**  
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**Milwaukee**  
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WISN 1120 250 C  
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CFCN 1030 10000 F  
CJ CJ 690 100

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CJCA 730 1000 F  
CKUA 580 500

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**Kamloops**  
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**Trail**  
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**Vancouver**  
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CKFK 1410 50  
CKMO 1410 100  
CKWX 1010 100  
CRCV 1100 1000 F

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**Middlechurch**  
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**Winnipeg**  
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**Yarmouth**  
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**Cobalt**  
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**Fort William**  
CKPR 780 50 F

**Hamilton**  
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CKOK 1120 500 F

**Kingston**  
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**Kirkland Lake**  
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**Kitchener**  
CKCR 1510 100

**London**  
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**North Bay**  
CFCH 930 100 F

**Ottawa**  
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CRCO 880 1000 F

**Prescott**  
CFLC 930 100

**St. Catharines**  
CKTB 1200 100

**Stratford**  
10-AK 1200 15

**Sudbury**  
CJCS 780 500

**Timmins**  
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**Toronto**  
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CKCL 580 100  
CRCT 960 5000 N  
CKNC 1030 100 F

**Windsor**  
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**Wingham**  
10-BP 1200 15

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**Charlottetown**  
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CHCK 1310 50

**Summerside**  
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**QUEBEC**

**Chicoutimi**  
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**Hull**  
CKCH 1210 100 F

**Montmagny**  
VE9EK 1195 10

**Montreal**  
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XEOK 757 5000

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XEFI 1260 250		XEFB 1315 100		CMJL 960 50	CMDD 588 150
Juarez		XEJF 1000 100		CMJN 1240 50	CMDE 925 150
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<b>COAHUILA</b>		XEX 630 50		CMQ 630 500	
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XEPN 585 75000		Puebla		<b>Ciego de Avila</b>	
Saltillo		XETH 860 100		CMJH 1150 50	CMJI 1335 45
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Torreon		XEFS 1000 40		<b>Cienfuegos</b>	
XETB 1380 125		Queretaro		CMHJ 1125 20	CMHL 1290 20
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XER- 735 150000		San Luis Potosi		<b>Colon</b>	
XEF		XEAC 1295 100		CMGA 834 100	<b>Cruces</b>
<b>D. F.</b>		<b>SONORA</b>		CMHK 1225 50	<b>Guantanamo</b>
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XEB 1030 10000		<b>TAMAULIPAS</b>		CMBD 965 250	CMBG 1052 225
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XEP 780 500		XEWA 965 10000		CMCF 873 250	CMCH 1410 50
XETW 830 500		<b>Reynosa</b>		CMCJ 1180 500	CMCM 1410 15
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Morelia					
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The harmonious Morin Sisters, left to right, Marge, Pauline and Evelyn, heard on the Scaled Power Sideshow over an NBC (Blue) network on Mondays at 8:00 p. m. EST. These sisters hail from Indiana, but got their first real start over WLW. Paul Whiteman heard them there and advised them to try their fortunes at the Chicago NBC studios, where they immediately clicked.



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<b>CFAC</b>	930 100	Calgary, Alta.
		Calgary Herald.
<b>CFBO</b>	1210 100	St. John, N. B.
		C. A. Munro, Ltd.
<b>CFCF</b>	600 500	Montreal, Que.
		Canadian Marconi Co.
<b>CFCH</b>	930 100	North Bay, Ont.
		Northern Broadcasting Co., Ltd.
<b>CFCN</b>	1030 10000	Calgary, Alta.
		Voice of the Prairies, Ltd.
<b>CFCO</b>	600 50	Chatham, Ont.
		John Beardall.
<b>CFCT</b>	1450 50	Victoria, B. C.
		Victoria Broadcasting Assn.
<b>CFCY</b>	630 600	Charlottetown, P. E. I.
		Island Radio Broadcasting Co., Ltd.
<b>CFJC</b>	1310 100	Kamloops, B. C.
		Review Publishing Co., Ltd.
<b>CFLC</b>	930 100	Prescott, Ont.
		Radio Assn. of Prescott.
<b>CFNB</b>	1030 500	Fredericton, N. B.
		James S. Neill & Sons, Ltd.
<b>CFPL</b>	730 100	London, Ont.
		Free Press & Printing Co., Ltd.
<b>CFQC</b>	1230 600	Saskatoon, Sask.
		Electric Shop, Ltd.
<b>CFRB</b>	690 10000	Toronto, Ont.
		Canadian Radio Corp., Ltd.
<b>CFRC</b>	1510 100	Kingston, Ont.
		Queens University.
<b>CFTP</b>	1120 100	Edmonton, Alta.
		Taylor & Pearson, Ltd.
<b>CHAB</b>	1200 100	Moose Jaw, Sask.
		Moose Jaw Radio Assn.
<b>CHCK</b>	1310 50	Charlottetown, P. E. I.
		J. A. Geener.
<b>CHGS</b>	1120 50	Summerside, P. E. I.
		R. T. Holman, Ltd.
<b>CHLP</b>	1120 100	Montreal, Que.
		La Patrie Publishing Co., Ltd.
<b>CHML</b>	1010 50	Hamilton, Ont.
		Maple Leaf Radio Co., Ltd.
<b>CHNC</b>	1210 100	New Carlisle, Que.
		Dr. Charles Houde.
<b>CHNS</b>	1050 500	Halifax, N. S.
		Maritime Broadcasting Co., Ltd.
<b>CHPR</b>	1370 100	St. John, N. B.
		H. P. Robinson.
<b>CHRC</b>	930 100	Quebec, Que.
		CHRC, Ltd.
<b>CHWC</b>	1010 500	Regina, Sask.
		R. H. Williams & Sons, Ltd.
<b>CHWK</b>	780 100	Chilliwack, B. C.
		Chilliwack Broadcasting Co., Ltd.
<b>CJAT</b>	1200 50	Trail, B. C.
		Trail Amateur Radio Assn.
<b>CJCA</b>	730 1000	Edmonton, Alta.
		Edmonton Journal, Ltd.
<b>CJCB</b>	880 50	Sydney, N. S.
		Nathanson's Radio Headquarters.
<b>CJ CJ</b>	690 100	Calgary, Alta.
		Albertan Publishing Co., Ltd.
<b>CJCS</b>	780 500	Sudbury, Ont.
		George McLeod Cootes
<b>CJQX</b>	630 500	Yorkton, Sask.
		Whinpeg Grain Exchange.
<b>CJKL</b>	1310 100	Kirkland Lake, Ont.
		O. J. Thorpe & Branchaud.
<b>CJLS</b>	1310 100	Yarmouth, N. S.
		Laurie L. Smith.
<b>CJOC</b>	840 100	Lethbridge, Alta.
		H. R. Carson, Ltd.

<b>CJOR</b>	600 500	Vancouver, B. C.
		G. C. Chandler.
<b>CJRC</b>	1390 100	Middlechurch, Man.
		James Richardson & Sons.
<b>CJRM</b>	540 1000	Moose Jaw, Sask.
		James Richardson & Sons, Ltd.
<b>CJRW</b>	540 500	Fleming, Sask.
		James Richardson & Sons, Ltd.
<b>CKAC</b>	730 5000	Montreal, Que.
		LaPresse Publishing Co., Ltd.
<b>CKBI</b>	1210 100	Prince Albert, Sask.
		Prince Albert Radio Club.
<b>CKCD</b>	1010 100	Vancouver, B. C.
		Vancouver Daily Province.
<b>CKCH</b>	1210 100	Hull, Que.
		Dr. J. L. Chabot.
<b>CKCK</b>	1010 500	Regina, Sask.
		Leader-Post, Ltd.
<b>CKCL</b>	580 100	Toronto, Ont.
		Domlnon Battery Co., Ltd.
<b>CKCO</b>	1010 100	Ottawa, Ont.
		Dr. G. M. Geldert.
<b>CKCR</b>	1510 100	Kitchener, Ont.
		William C. Mitchell and G. Liddle.
<b>CKCV</b>	1310 50	Quebec, Que.
		Vandry, Inc.
<b>CKFC</b>	1410 50	Vancouver, B. C.
		Radio Service Engineers, Ltd.
<b>CKGB</b>	1420 100	Timmins, Ont.
		R. H. Thompson
<b>CKIC</b>	1010 50	Wolfville, N. S.
		Acadia University.
<b>CKLW</b>	840 5000	Windsor, Ont.
		Western Ontario Broadcasting Co., Ltd.
<b>CKMC</b>	1210 50	Cobalt, Ont.
		R. L. MacAdam.
<b>CKMO</b>	1410 100	Vancouver, B. C.
		Sprott-Shaw Radio Co.
<b>CKNG</b>	1030 100	Toronto, Ont.
		Canadian National Carbon Co., Ltd.
<b>CKOC</b>	1120 500	Hamilton, Ont.
		Wentworth Radio Broadcasting Co., Ltd.
<b>CKOV</b>	1210 50	Kellowna, B. C.
		Okanagan Broadcasters, Ltd., Box 243.
<b>CKPC</b>	930 100	Brantford, Ont.
		Cyrus Dolph.
<b>CKPR</b>	780 50	Fort William, Ont.
		Dougall Motor Co., Ltd.
<b>CKTB</b>	1200 100	St. Catharines, Ont.
		E. T. Sandell.
<b>CKUA</b>	580 500	Edmonton, Alta.
		University of Alberta.
<b>CKWX</b>	1010 100	Vancouver, B. C.
		Western Broadcasting Co., Ltd.
<b>CKX</b>	1450 500	Brandon, Man.
		Manitoba Telephone System
<b>CKY</b>	910 5000	Winnipeg, Man.
		Manitoba Telephone System.
<b>CMAB</b>	1249 20	Pinar del Rio, Cuba.
		Jose Silvera, Marti No. 101.
<b>CMAF</b>	680 1000	Havana, Cuba.
		International Broadcasting Co., Miramar.
<b>CMBC</b>	1270 150	Havana, Cuba.
		Domlngo Fernandez, Maximo Gomez No. 139.
<b>CMBD</b>	955 250	Havana, Cuba.
		Luis Perez Garcia, Enamorados y Flores.
<b>CMBG</b>	1052 225	Havana, Cuba.
		John L. Stowers, Hospital No. 100
<b>CMBJ</b>	1140 500	Havana, Cuba.
		Emilio Perera, Consulado y Virtudes.
<b>CMBK</b>	1485 15	Havana, Cuba.
		Alberto Alvarez, Paula y Oficios.

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**CMBL 1446 200 Havana, Cuba.**  
Julio C. Hidalgo, Vedado.

**CMBN 1185 150 Havana, Cuba.**  
G. de Sequeira, Agrimont No. 32

**CMBS 765 200 Havana, Cuba.**  
Enrique Artalejo, Calzada y H. St.

**CMBW 1140 600 Havana, Cuba.**  
Alvarez, Morla y Cia, Obrapia No. 13.

**CMBY 1230 250 Havana, Cuba.**  
Callejas-Estefanl, Principe No. 33.

**CMBZ 1005 150 Havana, Cuba.**  
Manuel y G. Salas, San Rafael No. 14.

**CMC 835 500 Havana, Cuba.**  
Radio Corp. of Cuba.

**CMCA 1230 150 Havana, Cuba.**  
Manuel Cruz, Ave. de Italia No. 102.

**CMCB 1052 150 Havana, Cuba.**  
Metropolitan-Radio de Cuba.

**CMCD 915 500 Havana, Cuba.**  
Angel Bertematy.

**CMCF 873 250 Havana, Cuba.**  
Raoul Karman.

**CMCH 1410 50 Havana, Cuba.**  
Wifredo y Humberto Fontanals Sanchez.

**CMCJ 1180 500 Havana, Cuba.**  
Rafael Rodriques, Estevez No. 4.

**CMCM 1410 15 Havana, Cuba.**  
Aurelio Balino, Belas Coain No. 639.

**CMCN 1375 250 Havana, Cuba.**  
Antonio Ginard, Reina y Ave. Buen Retiro

**CMCP 1270 150 Havana, Cuba.**  
Jose A. Yanis

**CMCQ 775 1000 Havana, Cuba.**  
Andres Martinez, Viata Alegre No. 80.

**CMCR 1375 150 Havana, Cuba.**  
Aurelio Hernandez.

**CMCU 1100 500 Havana, Cuba.**  
Jorge Garcia Serra.

**CMCW 965 150 Havana, Cuba.**  
Villarino y Cervantes.

**CMCY 1325 500 Havana, Cuba.**  
Manuel D. Autran, Ave. de La Pdt s.215.

**CMDD 588 150 Havana, Cuba.**  
G. de Sequira

**CMDE 825 150 Havana, Cuba.**  
Radio Aerial Ad.

**CMGA 834 100 Colon, Cuba.**  
L. Valdes Figueroa, Marti No. 19.

**CMGB 1205 30 Matanzas, Cuba.**  
Jose Anorga, Magdalena No. 1.

**CMGC 820 30 Matanzas, Cuba.**  
Oscar S. Mechoso, Independela No. 56.

**CMGE 1375 30 Cardenas, Cuba.**  
Genaro Sebater, Cespedes No. 180.

**CMGF 971.5 100 Matanzas, Cuba.**  
Bernabe R. de la Torre.

**CMGH 1040 15 Matanzas, Cuba.**  
Octavio y Julio Alvarez.

**CMHD 945.5 500 Calbarien, Cuba.**  
Manuel Alvarez, M. Escobar 17.

**CMHI 1037 250 Santa Clara, Cuba.**  
Lavis y Paz.

**CMHJ 1125 80 Cienfuegos, Cuba.**  
Victorino Lopez Hontanon.

**CMHK 1225 50 Cruces, Cuba.**  
Virgilio Villaneuva Fernandes.

**CMHL 1290 20 Cienfuegos, Cuba.**  
Oscar Zayas, San Carlos 143.

**CMHW 1200 100 Cienfuegos, Cuba.**  
San Carlos No. 106

**CMJC 1382 150 Camaguey, Cuba.**  
Feliciano Isaac, Clanderos y G. Gomez.

**CMJE 1170 58 Camaguey, Cuba.**  
Manuel Fernandez, Plaza de Maceo.

**CMJF 910 200 Camaguey, Cuba.**  
John L. Stowers, Hotel Plaza.

**CMJG 1050 50 Camaguey, Cuba.**  
Jose Antonio Lefran, Martires 133.

**CMJH 1150 50 Ciego de Avila, Cuba.**  
Luis Marauri Mendosa.

**CMJI 1335 45 Ciego de Avila, Cuba.**  
Gilberto Gessa Lopez, Independencia 95.

**CMJK 790 500 Camaguey, Cuba.**  
Compania Cubana Nacional de Radio S. A.

**CMJL 980 50 Camaguey, Cuba.**  
Enrique Artime, Cuba No. 27.

**CMJN 1240 50 Camaguey, Cuba.**  
Ernesto de Ugarria, Martires 11.

**CMJO 1010 50 Ciego de Avila, Cuba.**  
Jose M. Rey, C. Central & Maceo.

**CMJP 1360 75 Moron, Cuba.**  
Cesar Canall, Callejas No. 28.

**CMK 730 5000 Havana, Cuba.**  
National Broadcasting Co. of Cuba.

**CMKC 1034 150 Santiago, Cuba.**  
Pinol Batlle y Co.

**CMKJ 1300 20 Guantanamo, Cuba.**  
Luis Morlote, East Giro 11.

**CMQ 830 500 Havana, Cuba.**  
Jose Fernandez, 25 Numero 445.

**CMW 595 1400 Havana, Cuba.**  
Troncoso y Gil, Paseo de Marti 103.

**CMX 875 1000 Havana, Cuba.**  
Casa "Lavin," Ave. de la Republica 99A.

**CRCM 910 5000 Montreal, Que.**  
Canadian Radio Broadcasting Commission

**CRCO 880 1000 Ottawa, Ont.**  
Canadian Radio Broadcasting Commission.

**CRCS 1500 100 Chicoutimi, Que.**  
Canadian Marconi Co., Ltd.

**CRCT 860 5000 Toronto, Ont.**  
Canadian Radio Broadcasting Commission.

**CRCV 1100 1000 Vancouver, B. C.**  
Canadian Radio Broadcasting Commission.

**FQN 572 250 St. Pierre, Mic.**

**HHK 920 1000 Port-au-Prince, Haiti.**  
Haitian Government.

**HIH 1395 15 San Pedro de M., D. M.**  
Domingo Dominguez

**HIJ 1195 15 Santo Domingo, D. R.**  
Tuto Baez, Hostos 34

**HIX 580 1500 Santo Domingo, D. R.**  
J. R. Saladin, Director General

**HIZ 1300 10 Santo Domingo, D. R.**  
Abbes and Garcia

**HJN 881 500 Bogota, Colombia.**  
Government of Colombia, National Library.

**KABC 1420 100 San Antonio, Texas.**  
Alamo Broadcasting Co., Inc.

**KALE 1300 500 Portland, Ore.**  
Kale, Inc., New Heathman Hotel

**KARK 890 250 Little Rock, Ark.**  
Arkansas Radio & Equipment Co.

**KASA 1210 100 Elk City, Okla.**  
E. M. Woody, Casa Grande Hotel.

**KBPS 1420 100 Portland, Ore.**  
Benson Polytechnic School

**KBTM 1200 100 Jonesboro, Ark.**  
Jay P. Beard.

**KCMC 1420 100 Texarkana, Ark.**  
M. P. Mims, Box 865.

**KCRC 1370 100 Enid, Okla.**  
Enid Radiophone Co.

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**KCRJ 1310 100 Jerome, Ariz.**  
 Chas. C. Robinson, Drawer D.  
**KDB 1500 100 Santa Barbara, Calif.**  
 Santa Barbara Broadcasters, Ltd.  
**KDFN 1440 500 Casper, Wyo.**  
 Donald Lewis Hathaway.  
**KDKA 980 50000 Pittsburgh, Pa.**  
 Westinghouse Electric & Mfg. Co.  
**KDLR 1210 100 Devils Lake, N. D.**  
 KDLR, Inc., 1025 3rd Street.  
**KDYL 1290 1000 Salt Lake City, Utah.**  
 Intermountain Broadcasting Corp.  
**KECA 1430 1000 Los Angeles, Calif.**  
 Earle C. Anthony, Inc.  
**KELW 780 500 Burbank, Calif.**  
 Magnolia Park, Ltd., 3702 Magnolia  
**KERN 1200 100 Bakersfield, Calif.**  
 Bee Bakersfield Broadcasting Co.  
**KEX 1180 5000 Portland, Ore.**  
 National Broadcasting Co.  
**KFAB 770 5000 Lincoln, Neb.**  
 KFAB Broadcasting Co.  
**KFAC 1800 1000 Los Angeles, Calif.**  
 E. L. Cord, 645 So. Mariposa.  
**KFBB 1280 1000 Great Falls, Mont.**  
 Buttrey Broadcast, Inc.  
**KFBI 1050 5000 Abilene, Kans.**  
 Farmers & Bankers Life Ins. Co.  
**KFBK 1310 100 Sacramento, Calif.**  
 James McClatchy Publishing Co.  
**KFBL 1370 50 Everett, Wash.**  
 Leese Bros., 2814 Rucker Ave.  
**KFDM 560 500 Beaumont, Texas.**  
 Sabine Broadcasting Co.  
**KFDY 550 500 Brookings, S. D.**  
 South Dakota State College.  
**KFEL 920 500 Denver, Colo.**  
 Eugene P. O'Fallon, Inc.  
**KFEQ 880 2500 St. Joseph, Mo.**  
 Scroggins & Co. Bank  
**KFQQ 1310 100 Boone, Iowa.**  
 Boone Biblical College.  
**KFH 1300 1000 Wichita, Kans.**  
 Radio Station KFH Co.  
**KFI 840 50000 Los Angeles, Calif.**  
 Earle C. Anthony, Inc.  
**KFIO 1120 100 Spokane, Wash.**  
 Spokane Broadcasting Corp.  
**KFIZ 1420 100 Fond du Lac, Wis.**  
 Reporter Printing Co.  
**KFJB 1200 100 Marshalltown, Iowa.**  
 Marshall Electric Co.  
**KFJI 1210 100 Klamath Falls, Ore.**  
 KFJI Broadcasters, Inc., Willard Hotel.  
**KFJM 1370 100 Grand Forks, N. D.**  
 University of North Dakota.  
**KFJR 1300 500 Portland, Ore.**  
 Ashley C. Dixon-KFJR, Inc.  
**KFJZ 1370 100 Fort Worth, Texas.**  
 Fort Worth Broadcasters, Inc.  
**KFKA 880 500 Greeley, Colo.**  
 Mid-Western Radio Corp.  
**KFKU 1220 500 Lawrence, Kans.**  
 University of Kansas.  
**KFLV 1410 500 Rockford, Ill.**  
 Rockford Broadcasters, Inc.  
**KFNF 890 500 Shenandoah, Iowa.**  
 Henry Field Co.  
**KFOR 1210 100 Lincoln, Neb.**  
 Howard Shuman  
**KFOX 1250 1000 Long Beach, Calif.**  
 Nicholas & Warriner, Inc.

**KFPL 1310 100 Dublin, Texas.**  
 C. C. Baxter, Box 176  
**KFPM 1310 15 Greenville, Texas.**  
 New Furniture Co.  
**KFPW 1210 100 Fort Smith, Ark.**  
 Southwestern Hotel Co.  
**KFPY 1340 1000 Spokane, Wash.**  
 Symons Broadcasting Co.  
**KFQD 600 250 Anchorage, Alaska**  
 Anchorage Radio Club, Inc.  
**KFRG 810 1000 San Francisco, Calif.**  
 Don Lee, Inc.  
**KFRU 830 500 Columbia, Mo.**  
 KFRU, Inc., 9th and Elm Sts.  
**KFSD 800 1000 San Diego, Calif.**  
 Airfan Radio Corp., Ltd.  
**KFSG 1120 600 Los Angeles, Calif.**  
 Echo Park Evangelistic Assn.  
**KFUO 550 500 St. Louis, Mo.**  
 Evangelical Lutheran Church.  
**KFYD 1000 250 Los Angeles, Calif.**  
 E. L. Cord, 645 S. Mariposa.  
**KFVS 1210 100 Cape Girardeau, Mo.**  
 Oscar C. Hirsch, Box 275.  
**KFWB 950 1000 Hollywood, Calif.**  
 Warner Bros. Motion Pictures, Inc.  
**KFWI 930 500 San Francisco, Calif.**  
 Radio Entertainments, Ltd.  
**KFXD 1200 100 Nampa, Idaho.**  
 Frank E. Hurt, 1024 12th Ave., S.  
**KAFX 920 500 Denver, Colo.**  
 Colorado Radio Corp.  
**KFXJ 1200 100 Grand Jct., Colo.**  
 Western Slope Broadcasting Co.  
**KFXM 1210 100 San Bernardino, Calif.**  
 Lee Bros. Broadcasting Co.  
**KFXR 1310 100 Oklahoma City, Okla.**  
 Exchange Avenue Baptist Church.  
**KFYO 1310 100 Lubbock, Texas.**  
 Kirksey Bros., Hotel Lubbock.  
**KFYR 550 1900 Bismarck, N. D.**  
 Mayer Broadcasting Co.  
**KGA 1470 5000 Spokane, Wash.**  
 Northwest Broadcasting Co., Inc.  
**KGAR 1370 100 Tucson, Ariz.**  
 Tucson Motor Service Co.  
**KGB 1330 1000 San Diego, Calif.**  
 Don Lee Broadcasting System  
**KGBU 900 500 Ketchikan, Alaska.**  
 Alaska Radio & Service Co., Inc.  
**KGBX 1310 100 Springfield, Ma.**  
 KGBX, Inc.  
**KGBZ 930 500 York, Neb.**  
 KGBZ Broadcasting Co., 715 Grant Ave.  
**KGCA 1270 100 Decorah, Iowa**  
 Charles W. Greenley  
**KGCR 1210 100 Watertown, S. D.**  
 Greater Kampeka Radio Corp.  
**KGCU 1240 250 Mandan, N. D.**  
 Mandan Radio Assn.  
**KGCX 1310 100 Wolf Point, Mont.**  
 E. E. Krebsbach.  
**KGDE 1200 100 Fergus Falls, Minn.**  
 C. L. Jaren.  
**KGDM 1100 250 Stockton, Calif.**  
 E. F. Peffer, 42 S. Calif. St.  
**KGOY 1340 250 Huron, S. D.**  
 Voice of S. D., Inc., 347 Dakota Ave.  
**KGEK 1200 100 Yuma, Colo.**  
 Elmer G. Beehler, 109 W. 2nd St.  
**KGER 1350 1000 Long Beach, Calif.**  
 Consolidated Broadcasting Co.

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**KGEZ 1310 100 Kalispell, Mont.**  
Donald C. Treloar, Box 1.

**KGFF 1420 100 Shawnee, Okla.**  
KGFF Broadcasting Co., Inc.

**KGFG 1370 100 Oklahoma City, Okla.**  
Oklahoma Broadcasting Co., 1113 N. Broadway

**KGFI 1500 100 Corpus Christi, Texas.**  
Eagle Broadcasting Co., Inc.

**KGfJ 1200 100 Los Angeles, Calif.**  
Ben S. McGlashan, 1417 S. Figueroa.

**KGFK 1500 100 Moorhead, Minn.**  
Red River Broadcasting Co., Inc.

**KGFL 1370 100 Roswell, N. M.**  
KGFL, Inc., 507 N. Main St.

**KGFW 1310 100 Kearney, Neb.**  
Central Nebraska Broadcasting Corp.

**KGFX 630 200 Pierre, S. D.**  
Dana McNeil, 510 Summit Ave.

**KGGC 1420 100 San Francisco, Calif.**  
Golden Gate Broadcasting Co

**KGQF 1010 600 Coffeyville, Kans.**  
Hugh J. Powell and Stanley Platz.

**KGGM 1230 250 Albuquerque, N. M.**  
New Mexico Broadcasting Co.

**KGHF 1320 250 Pueblo, Colo.**  
C. P. Ritchie & Geo. J. Ikelman

**KGHI 1200 100 Little Rock, Ark.**  
Lloyd Judd Co., Marlon Hotel.

**KGHL 950 1000 Billings, Mont.**  
Northwestern Auto Supply Co.

**KGIR 1350 500 Butte, Mont.**  
KGIR, Inc., 121 W. Broadway.

**KGIW 1420 100 Alameda, Colo.**  
Leonard E. Wilson, 328 N. Commercial

**KGIX 1420 100 Las Vegas, Nev.**  
J. M. Heaton, Box 656.

**KGKB 1500 100 Tyler, Texas.**  
East Texas Broadcasting Co.

**KGKL 1370 100 San Angelo, Texas.**  
KGKL, Inc., St. Angelus Hotel.

**KGKO 570 250 Wichita Falls, Texas.**  
Wichita Falls Broadcasting Co.

**KGKY 1500 100 Scottsbluff, Neb.**  
Hilliard Co., Inc., 1517½ Broadway.

**KQMB 1320 250 Honolulu, T. H.**  
Honolulu Broadcasting Co., 119 Merchant St.

**KGNF 1430 500 North Platte, Neb.**  
Great Plains Broadcasting Co.

**KGNO 1340 250 Dodge City, Kans.**  
KGNO Broadcasting Station

**KGO 790 7500 San Francisco, Calif.**  
National Broadcasting Co., Inc.

**KGRS 1410 1000 Amarillo, Texas.**  
E. B. Glah, Bellaire Park.

**KGU 750 2500 Honolulu, T. H.**  
Advertiser Publishing Co., Ltd.

**KGVO 1200 100 Missoula, Mont.**  
Moebys, Inc., 240 N. Higgins.

**KGW 620 1000 Portland, Ore.**  
Oregonian Publishing Co.

**KGY 1210 100 Olympia, Wash.**  
KGY, Inc., 11th and Capitol Way.

**KHJ 900 1000 Los Angeles, Calif.**  
Don Lee Broadcasting System.

**KHQ 590 1000 Spokane, Wash.**  
Louis Wasmer, Inc.

**KICA 1370 100 Clovis, N. M.**  
Southwest Broadcasting Co.

**KICK 1420 100 Carter Lake, Iowa.**  
Red Oak Radio Corp.

**KID 1320 250 Idaho Falls, Idaho.**  
KID Broadcasting Co., Inc.

**KIDO 1350 1000 Boise, Idaho.**  
C. G. Phillips & Frank L. Hill.

**KIDW 1420 100 Lamar, Colo.**  
Lamar Broadcasting Co., Box 688

**KIEM 1210 100 Eureka, Calif.**  
Harold H. Hanseth, Vance Hotel.

**KIEV 850 100 Glendale, Calif.**  
Cannon System, Ltd., Glendale Hotel.

**KIFH 1310 100 Juneau, Alaska**  
Juneau Broadcasting Co.

**KIT 1310 100 Yakima, Wash.**  
Valley Broadcasters, Inc.

**KJBS 1070 100 San Francisco, Calif.**  
Julius Brunton & Sons Co.

**KJR 970 5000 Seattle, Wash.**  
Fishers Blend Station, Inc.

**KLGN 1290 100 Blytheville, Ark.**  
C. L. Lintzenich, Main and Division St.

**KLO 1400 500 Ogden, Utah.**  
Interstate Broadcasting Co.

**KLPM 1240 250 Minot, N. D.**  
John B. Cooley.

**KLRA 1390 1000 Little Rock, Ark.**  
Arkansas Broadcasting Co.

**KLS 1440 250 Oakland, Calif.**  
Warner Bros., 2201 Telegraph Ave.

**KLUF 1370 100 Galveston, Texas.**  
Geo. R. Clough, 3327 Ave. P.

**KLX 880 1000 Oakland, Calif.**  
Tribune Building Co.

**KLZ 560 1000 Denver, Colo.**  
Reynolds Radio Co., Inc.

**KMA 930 500 Shenandoah, Iowa.**  
Earl E. May Seed & Nursery Co.

**KMAC 1370 100 San Antonio, Texas.**  
W. W. McAllister, Blue Bonnet Hotel.

**KMBC 950 1000 Kansas City, Mo.**  
Midland Broadcasting Co.

**KMED 1310 100 Medford, Ore.**  
Mrs. W. J. Virgin, Sparta Bldg.

**KMJ 530 500 Fresno, Calif.**  
James McClatchy Co.

**KMLB 1290 100 Monroe, La.**  
Liners Broadcasting Station, Inc.

**KMMJ 740 1000 Clay Center, Neb.**  
The M. M. Johnson Co.

**KMO 1330 250 Tacoma, Wash.**  
KMO, Inc., Hotel Winthrop.

**KMOX 1090 50000 St. Louis, Mo.**  
The Voice of St. Louis, Inc.

**KMPK 710 500 Beverly Hills, Calif.**  
Beverly Hills Broadcasting Corp.

**KMTR 570 500 Hollywood, Calif.**  
KMTR Radio Corp., 915 N. Formosa Ave.

**KNOW 1500 100 Austin, Texas.**  
Southwest Broadcasting Co.

**KNX 1950 25000 Hollywood, Calif.**  
Western Broadcast Co., Inc.

**KOA 830 12,500 Denver, Colo.**  
General Electric Co., 1370 Krameria St.

**KOAC 550 1000 Corvallis, Ore.**  
Oregon State Agricultural College.

**KOB 1180 10000 Albuquerque, N. M.**  
Albuquerque Journal, Box 667.

**KOH 1380 500 Reno, Nev.**  
The Bee, Inc.

**KOIL 1280 1000 Council Bluffs, Iowa.**  
Mona Motor Oil Co.

**KOIN 940 1000 Portland, Ore.**  
KOIN, Inc., New Heathman Hotel.

**KOL 1270 1000 Seattle, Wash.**  
Seattle Broadcasting Co.

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<b>KOMA</b> 1480 5000 Oklahoma City, Okla National Radio Manufacturing Co.	<b>KTFI</b> 1240 1000 Twin Falls, Idaho. Radio Broadcasting Corp.
<b>KOMO</b> 920 1080 Seattle, Wash. Fishers Blend Station, Inc.	<b>KTHS</b> 1040 18000 Hot Springs, Ark. Chamber of Commerce.
<b>KONO</b> 1370 100 San Antonio, Texas. Miscel Broadcasting Co., St. Anthony Hotel.	<b>KTM</b> 780 500 Los Angeles, Calif. Pickwick Broadcasting Corp., Ltd.
<b>KOOS</b> 1370 100 Marshfield, Ore. H. H. Hanseth, Hall Bldg.	<b>KTRH</b> 1120 1000 Houston, Texas. KTRH Broadcasting Co., Rice Hotel.
<b>KORE</b> 1420 100 Eugene, Ore. Frank L. Hill and Curda G. Phillips.	<b>KTSA</b> 1290 1000 San Antonio, Texas. Southwest Broadcasting Co.
<b>KOY</b> 1390 500 Phoenix, Ariz. Nielsen Radio & Sporting Goods Co.	<b>KTSM</b> 1310 100 El Paso, Texas. Tri-State Broadcasting Co., Inc.
<b>KPCB</b> 850 100 Seattle, Wash. Queen City-Broadcasting Co.	<b>KTUL</b> 1400 250 Tulsa, Okla. J. T. Griffin
<b>KPJM</b> 1500 100 Prescott, Ariz. Frank Mauthe, Box 852	<b>KTW</b> 1220 1000 Seattle, Wash. First Presbyterian Church.
<b>KPO</b> 680 50000 San Francisco, Calif. National Broadcasting Co., Inc.	<b>KUJ</b> 1370 100 Walla Walla, Wash. KUJ, Inc., Marcus Whitman Hotel.
<b>KPOF</b> 880 500 Denver, Colo. Pillar Of Fire, 1845 Champa St.	<b>KUMA</b> 1420 100 Yuma, Ariz. Dr. A. H. Schermann, Box 267.
<b>KPPC</b> 1210 50 Pasadena, Calif. Pasadena Presbyterian Church.	<b>KUOA</b> 1260 1000 Fayetteville, Ark. KUOA, Inc., Washington Hotel.
<b>KPQ</b> 1600 100 Wenatche, Wash. Westcoast Broadcasting Co.	<b>KUSD</b> 890 500 Vermillion, S. D. University of South Dakota.
<b>KPRC</b> 920 1000 Houston, Texas. Houston Printing Co.	<b>KVI</b> 570 500 Tacoma, Wash. Puget Sound Broadcasting Co., Tacoma Hotel.
<b>KQV</b> 1380 500 Pittsburgh, Pa. KQV Broadcasting Co., Investment Bldg.	<b>KVL</b> 1370 100 Seattle, Wash. KVL, Inc., 5th and Virginia St.
<b>KQW</b> 1010 500 San Jose, Calif. Pacific Agricultural Foundation, Ltd.	<b>KVOA</b> 1280 500 Tucson, Ariz. Arizona Broadcasting Co., Inc.
<b>KRE</b> 1370 100 Berkeley, Calif. First Congregational Church.	<b>KVOD</b> 1140 25000 Tulsa, Okla. Southwestern Sales Corp.
<b>KREG</b> 1500 100 Santa Ana, Calif. The Voice of the Orange Empire, Inc.	<b>KVOR</b> 1270 1000 Colorado Springs, Colo S. H. Patterson
<b>KRGV</b> 1260 500 Harlingen, Texas. KRGV, Inc.	<b>KVOS</b> 1200 100 Bellingham, Wash. KVOS, Inc., Bellingham Hotel.
<b>KRKO</b> 1120 500 Los Angeles, Calif Fireseed Broadcasting Corp.	<b>KWCR</b> 1420 100 Cedar Rapids, Iowa. Cedar Rapids Broadcast Co.
<b>KRLD</b> 1040 10000 Dallas, Texas. KRLD Radio Corp., Adolphus Hotel.	<b>KWEA</b> 1210 100 Shreveport, La. International Broadcasting Corp.
<b>KRMO</b> 1310 100 Shreveport, La. Radio Station KRMD, Inc.	<b>KWFFV</b> 1210 100 Hilo, Hawaii Hilo Broadcasting Co., Ltd.
<b>KROW</b> 930 500 Oakland, Calif. Educational Broadcasting Corp.	<b>KWG</b> 1200 100 Stockton, Calif. McClatchy Newspapers, Inc.
<b>KRSC</b> 1120 100 Seattle, Wash. Radio Sales Corp., Washington Athletic Club.	<b>KWJJ</b> 1080 500 Portland, Ore. KWJJ Broadcast Co., Inc., 328 Salmon St.
<b>KSAC</b> 580 500 Manhattan, Kans. State College of Agriculture.	<b>KWK</b> 1350 1000 St. Louis, Mo. Thomas Patrick, Inc., Hotel Chase.
<b>KSCJ</b> 1330 1000 Sioux City, Iowa. Perkins Bros. Co., 415 Douglas St.	<b>KWKC</b> 1370 100 Kansas City, Mo. Wilson Duncan Broadcasting Co.
<b>KSD</b> 550 500 St. Louis, Mo. Pulitzer Publishing Co.	<b>KWKH</b> 850 10000 Shreveport, La. International Broadcasting Corp.
<b>KSEI</b> 890 250 Pocatello, Idaho. Radio Service Corp., 141 S. 6th Ave.	<b>KWLC</b> 1270 100 Decaroh, Iowa. Luther College.
<b>KSL</b> 1130 50000 Salt Lake City, Utah. Radio Service Corp. of Utah.	<b>KWSC</b> 1220 1000 Pullman, Wash. State College of Washington.
<b>KSO</b> 1370 100 Oes Moines, Iowa. Des Moines Register & Tribune.	<b>KWTO</b> 560 500 Springfield, Mo. KGBX Inc.
<b>KSOO</b> 1110 1000 Sioux Falls, S. O. Jos. Henkin, 1613 S. Duluth Ave.	<b>KWWG</b> 1260 500 Brownsville, Texas. Frank P. Jackson.
<b>KSTP</b> 1480 10000 St. Paul, Minn. National Battery Broadcasting Co.	<b>KXA</b> 760 250 Seattle, Wash. American Radio Tel. Co., 218 Bigelow Bldg.
<b>KSUN</b> 1200 100 Lowell, Ariz. Copper Electrical Co.	<b>KXL</b> 1420 100 Portland, Ore. KXL Broadcasters, 269 Pine St.
<b>KTAB</b> 560 1000 San Francisco, Calif. Associated Broadcasters, Inc.	<b>KXO</b> 1500 100 El Centro, Calif. E. R. Irey and F. M. Bowles.
<b>KTAR</b> 820 500 Phoenix, Ariz. KTAR Broadcasting Co.	<b>KXRO</b> 1310 100 Aberdeen, Wash. KXRO, Inc., Hotel Morck.
<b>KTAT</b> 1240 1000 Fort Worth, Texas. Southwest Broadcasting Co.	<b>KXYZ</b> 1440 250 Houston, Texas. Harris County Broadcast Co.
<b>KTBS</b> 1450 1000 Shreveport, La. Tri-State Broadcasting System.	<b>KYA</b> 1230 1000 San Francisco, Calif. Pacific Broadcasting Corp.

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<b>KYW</b>	1020	10000	Chicago, Ill.
Westinghouse Elec. & Mfg. Co.			
<b>KZRM</b>	618.5	60009	Manila, P. I.
Erlanger and Galinger, Inc. (KZEG)			
<b>LRS</b>	830	20000	Buenos Aires, Arg.
<b>NAA</b>	690	1000	Arlington, Va.
United States Navy.			
<b>RUS</b>	864	500	San Salvador, E. S.
Republe of El Salvador.			
<b>TGW</b>	1350	500	Guatemala, Gua.
Gobierno de Guatemala.			
<b>TGX</b>	1380	75	Guatemala City
<b>TICR</b>	812	75	San Jose, C. R.
Government of Costa Rica.			
<b>TIEA</b>	833	7.5	San Jose, C. R.
<b>TIEP</b>	1450	7.5	San Jose, C. R.
<b>TIFB</b>	714	30	San Jose, C. R.
<b>TIFS</b>	1441	7.5	Cartago, C. R.
<b>TIGA</b>	1014	30	Cartago, C. R.
<b>TIGP</b>	800	75	San Jose, C. R.
Gonzalo Pinto H. Apt. 225.			
<b>TIRCA</b>	1100	500	San Jose, C. R.
Perry Girtou, Apt. 225.			
<b>TISO</b>	550	250	San Jose, C. R.
P. F. Saborio, Apt. 1354			
<b>TITV</b>	999	7.5	San Jose, C. R.
<b>TIVL</b>	869	30	San Jose, C. R.
<b>TIXA</b>	614	7.5	San Jose, C. R. I
<b>VAS</b>	685	2000	Glace Bay, N. S.
Canadian Marconi Co., Ltd.			
<b>VESEK</b>	1195	10	Montmagny, Que.
J. A. Marquis, P. O. Box 57			
<b>VOAC</b>	800	40	St. John's, Nfld.
<b>VOAS</b>	810	100	St. John's, N. F.
Ayre & Sons, Ltd.			
<b>VOGQ</b>	950	75	St. John's, N. F.
Newfoundland Broadcasting Co.			
<b>VOKW</b>	1085	30	St. John's, N. F.
Cyril L. Parkins.			
<b>VONF</b>	1195	400	St. John's, N. F.
Dominion Broadcasting Co., Ltd., Box 1355.			
<b>VOWR</b>	900	500	St. John's, N. F.
Wesley United Church, Box 157.			
<b>WAAB</b>	1410	500	Boston, Mass.
Bay State Broadcasting Corp., 1 Winter Pl.			
<b>WAAF</b>	920	500	Chicago, Ill.
Chicago Daily Drovers Journal.			
<b>WAAT</b>	940	300	Jersey City, N. J.
Bremer Broadcasting Corp., 50 Journal Sq.			
<b>WAAW</b>	860	500	Omaha, Neb.
Omaha Grain Exchange.			
<b>WABC</b>	860	50000	New York, N. Y.
Atlantic Broadcasting Corp.			
<b>WABI</b>	1200	100	Banger, Maine.
First Universalist Society.			
<b>WACO</b>	1420	100	Waco, Texas.
Southwest Broadcasting Co.			
<b>WADC</b>	1320	1000	Akron, Ohio.
Allen T. Simmons, P. O. Box 29.			
<b>WAGM</b>	1420	100	Presque Isle, Mo.
Aroostook Broadcasting Corp.			

<b>WAIU</b>	840	500	Columbus, Ohio.
Associated Radiocasting Corp.			
<b>WALR</b>	1210	100	Zanesville, Ohio.
WALR Broadcasting Corp.			
<b>WAMC</b>	1420	100	Anniston, Ala.
R. C. Hammett, 1200 Noble St.			
<b>WAML</b>	1310	100	Laurel, Miss.
Southland Radio Corp.			
<b>WAPI</b>	1140	5000	Birmingham, Ala.
WAPI Broadcasting Corp.			
<b>WARD</b>	1400	500	Brooklyn, N. Y.
United States Broadcasting Corp.			
<b>WASH</b>	1270	500	Grand Rapids, Mich.
Kunsky-Trendle Broadcasting Corp.			
<b>WAVE</b>	940	1000	Louisville, Ky.
WFIW, Inc.			
<b>WAWZ</b>	1350	250	Zarephath, N. J.
Pillar of Fire.			
<b>WAZL</b>	1420	100	Hazleton, Pa.
Hazleton Broadcasting Service, Inc.			
<b>WBAA</b>	1400	500	West Lafayette, Ind.
Purdue University.			
<b>WBAK</b>	1430	1000	Harrisburg, Pa.
Commonwealth of Pennsylvania.			
<b>WBAL</b>	1050	10000	Baltimore, Md.
Consolidated Gas, Elec. Light & Power Co.			
<b>WBAP</b>	800	50000	Fort Worth, Texas.
Carter Publications, Inc.			
<b>WBAX</b>	1210	100	Wilkes-Barre, Pa.
John H. Stenger, Jr., 70 S. Main St.			
<b>WBBC</b>	1400	500	Brooklyn, N. Y.
Brooklyn Broadcasting Corp.			
<b>WBBL</b>	1210	100	Richmond, Va.
Grace Covenant Presbyterian Church.			
<b>WBBM</b>	770	25000	Chicago, Ill.
WBBM Broadcasting Corp., Wrigley Bldg.			
<b>WBBR</b>	1300	1000	Brooklyn, N. Y.
Peoples Pulpit Assn.			
<b>WBBX</b>	1200	100	New Orleans, La.
Samuel D. Reeks, Marber Hotel.			
<b>WBBZ</b>	1200	100	Ponca City, Okla.
C. L. Carrell.			
<b>WBCM</b>	1410	500	Bay City, Mich.
James E. Davidson, Hotel Wenonah.			
<b>WBEN</b>	900	1000	Buffalo, N. Y.
WBEN, Inc. (Buffalo Evening News.)			
<b>WBEO</b>	1310	100	Marquette, Mich.
Lake Superior Broadcasting Co., Inc.			
<b>WBHS</b>	1200	100	Huntsville, Ala.
Radio Station WBHS, Inc.			
<b>WBIG</b>	1440	500	Greensboro, N. C.
North Carolina Broadcasting Co., Inc.			
<b>WBNX</b>	1350	250	New York, N. Y.
Standard Cahill Co., Inc.			
<b>WBOQ</b>	860	50000	New York, N. Y.
Atlantic Broadcasting Corp.			
<b>WBOW</b>	1310	100	Terre Haute, Ind.
Banks of Wabash, Inc., 24½ S. 6th.			
<b>WBRC</b>	930	500	Birmingham, Ala.
Frank M. Klag, Receiver.			
<b>WBRE</b>	1310	100	Wilkes-Barre, Pa.
Louis G. Baltimore, 16 N. Main.			
<b>WBSO</b>	920	500	Babson Park, Mass.
Broadcasting Service Organization, Inc.			
<b>WBT</b>	1080	50000	Charlotte, N. C.
Station WBT, Inc., Wilder Bldg.			
<b>WBTM</b>	1370	100	Danville, Va.
Piedmont Broadcasting Corp.			
<b>WBZ</b>	990	50000	Boston, Mass.
Westinghouse Elec. & Mfg. Co.			
<b>WBZA</b>	990	1000	Springfield, Mass.
Westinghouse Elec. & Mfg. Co.			

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**WCAC 600 250 Storrs, Conn.**  
 Connecticut Agricultural College.  
**WCAD 1220 600 Canton, N. Y.**  
 St. Lawrence University.  
**WCAE 1220 1000 Pittsburgh, Pa.**  
 WCAE, Inc., Sun-Telegraph.  
**WCAH 1430 600 Columbus, Ohio.**  
 International Bible Students Assn.  
**WCAL 1250 1000 Northfield, Minn.**  
 St. Olaf College.  
**WCAM 1280 600 Camden, N. J.**  
 City of Camden, City Hall.  
**WCAO 600 250 Baltimore, Md.**  
 Monumental Radio Co.  
**WCAP 1280 600 Asbury Park, N. J.**  
 Radio Industries Broadcast Co.  
**WCAT 1200 100 Rapid City S. D.**  
 South Dakota State School of Mines  
**WCAU 1170 60000 Philadelphia, Pa.**  
 WCAU Broadcasting Co., 1622 Chestnut.  
**WCAX 1200 100 Burlington, Vt.**  
 Burlington Daily News, Inc.  
**WCAZ 1070 50 Carthage, Ill.**  
 Superior Broadcasting Service, Inc.  
**WCBA 1440 250 Allentown, Pa.**  
 B. Bryan Musselman, 39-41 10th St.  
**WCBD 1080 6000 Zion, Ill.**  
 Wilbur Glenn Voliva.  
**WCBM 1370 100 Baltimore, Md.**  
 Baltimore Broadcasting Corp.  
**WCBS 1210 100 Springfield, Ill.**  
 WCBS, Inc., 208½ S. 5th.  
**WCCO 810 60000 Minneapolis, Minn.**  
 Northwestern Broadcasting, Inc.  
**WCFL 970 1500 Chicago, Ill.**  
 Chicago Federation of Labor.  
**WCKY 1490 6000 Covington, Ky.**  
 L. B. Wilson, Inc.  
**WCLO 1200 100 Janesville, Wis.**  
 WCLO Radio Corp.  
**WCLS 1310 100 Joliet, Ill.**  
 WCLS, Inc., 301 E. Jefferson St.  
**WCNW 1600 100 Brooklyn, N. Y.**  
 Arthur Faske, 1525 Pitkin Ave.  
**WCOA 1340 600 Pensacola, Fla.**  
 Pensacola Broadcasting Co.  
**WCOC 880 600 Meridian, Miss.**  
 Mississippi Broadcasting Co., Inc.  
**WCRW 1210 100 Chicago, Ill.**  
 Clinton R. White, 2756 Pine Grove Ave.  
**WCSC 1360 600 Charleston, S. C.**  
 South Carolina Broadcasting Co., Inc.  
**WCSH 940 1000 Portland, Me.**  
 Congress Square Hotel Co., 157 High.  
**WDAE 1220 1000 Tampa, Fla.**  
 Tampa Publishing Co., Tampa Terrace.  
**WDAF 810 1000 Kansas City, Mo.**  
 Kansas City Star Co.  
**WDAG 1410 1000 Amarillo, Texas.**  
 National Radio & Broadcasting Corp.  
**WDAH 1310 100 El Paso, Texas.**  
 Tri-State Broadcasting Co., Inc.  
**WDAS 1370 100 Philadelphia, Pa.**  
 WDAS Broadcastg. Co., Inc., Broadwood Hotel.  
**WDAY 940 1000 Fargo, N. D.**  
 WDAY, Inc., Black Bldg., 118 Broadway.  
**WDBJ 930 250 Roanoke, Va.**  
 Times World Corp., 122 W. Church Ave.  
**WDBO 680 250 Orlando, Fla.**  
 Orlando Broadcasting Co., Inc.  
**WDEL 1120 250 Wilmington, Del.**  
 WDEL, Inc., 10th and King Sts.

**WDEV 550 600 Waterbury, Vt.**  
 Harry C. Whitehill, Stowe St.  
**WOGY 1180 1000 Minneapolis, Minn.**  
 Dr. Geo. W. Young, 909 W. Broadway.  
**WDDO 1280 1000 Chattanooga, Tenn.**  
 WDDO Broadcasting Corp., Hotel Patten.  
**WDRG 1330 1000 Hartford, Conn.**  
 WDRG, Inc., Corning Bldg., 11 Asylum St.  
**WDSU 1250 1000 New Orleans, La.**  
 Jos. H. Uhalt, On Hotel DeSoto.  
**WDZ 1070 100 Tuscola, Ill.**  
 James L. Bush.  
**WEAF 660 60000 New York, N. Y.**  
 National Broadcasting Co., Inc.  
**WEAN 780 600 Providence, R. I.**  
 Shepard Broadcasting Service, Inc.  
**WEBC 1290 1000 Superior, Wis.**  
 Head of the Lakes Broadcasting Co.  
**WEBQ 1210 100 Harrisburg, Ill.**  
 Harrisburg Broadcasting Co.  
**WEBR 1310 100 Buffalo, N. Y.**  
 Howell Broadcasting Co., Inc., 735 Main.  
**WEDC 1210 100 Chicago, Ill.**  
 Emil Denmark, 3860 Ogden Ave.  
**WEED 1420 100 Greenville, N. C.**  
 Wm. Avera Wynne.  
**WEEL 690 1000 Boston, Mass.**  
 Edison Elec. Illuminating Co.  
**WEUU 830 1000 Reading, Pa.**  
 Berks Broadcasting Co., 533 Penn.  
**WEHC 1350 600 Charlottesville, Va.**  
 Community Brdcastg. Corp.  
**WEHS 1420 100 Cicero, Ill.**  
 WEHS, Inc., 6138 W. 22nd St.  
**WELL 1420 60 Battle Creek, Mich.**  
 Enquirer News Co., 7 N. McCamy St.  
**WENC 1420 100 Americus, Ga.**  
 Americus Broadcast Corp.  
**WENR 870 60000 Chicago, Ill.**  
 Great Lakes Broadcasting Co.  
**WESG 1040 1000 Elmira, N. Y.**  
 Elmira Star Gazette, Inc.  
**WEVD 1300 600 New York, N. Y.**  
 Jewish Daily Forward, Hotel Claridge.  
**WEW 780 1000 St. Louis, Mo.**  
 St. Louis University, 221 N. Grand Blvd.  
**WEXL 1310 60 Royal Oak, Mich.**  
 Royal Oak Broadcasting Co.  
**WFAA 800 60000 Dallas, Texas.**  
 Morning News and Journal.  
**WFAB 1300 1000 New York, N. Y.**  
 Fifth Avenue Broadcasting Corp.  
**WFAM 1200 100 South Bend, Ind.**  
 South Bend Tribune, 200 W. Cofax.  
**WFAS 1210 100 White Plains, N. Y.**  
 Westchester Broadcasting Corp.  
**WFBC 1200 100 Greenville, S. C.**  
 Greenville News-Piedmont Co.  
**WFBE 1200 100 Cincinnati, Ohio.**  
 WFBE, Inc., Hotel Sinton.  
**WFBG 1310 100 Altoona, Pa.**  
 Gable Broadcasting Co. 12th Av. & 13th St.  
**WFBL 1360 1000 Syracuse, N. Y.**  
 Onondaga Radio Broadcasting Corp.  
**WFBM 1230 1000 Indianapolis, Ind.**  
 Indianapolis Power & Light Co.  
**WFBR 1270 600 Baltimore, Md.**  
 Baltimore Radio Show, Inc.  
**WFDF 1310 100 Flint, Mich.**  
 Flint Broadcasting Co.  
**WFDV 1600 100 Rome, Ga.**  
 Rome Broadcasting Corp., 10 3rd Ave.

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 New Hampshire Broadcasting Co.  
**WFI 560 500 Philadelphia, Pa.**  
 WFI Broadcasting Co., 801 Market.  
**WFLA 620 1000 Clearwater, Fla.**  
 Florida West Coast Broadcasting Co., Inc.  
**WGAL 1310 100 Lancaster, Pa.**  
 WGAL, Inc., 8 W. King St.  
**WGAR 1450 500 Cleveland, Ohio.**  
 WGAR Broadcasting Co., Hotel Statler.  
**WGBB 1210 100 Freeport, N. Y.**  
 H. H. Carman, 64 S. Grove St.  
**WGFB 630 500 Evansville, Ind.**  
 Evansville On the Air, Inc.  
**WGBI 889 250 Scranton, Pa.**  
 Scranton Broadcasters, Inc.  
**WGCM 1210 100 Mississippi City, Miss.**  
 Great Southern Land Co., Gulfport, Miss.  
**WGCP 1250 1000 Newark, N. J.**  
 May Radio Broadcasting Co.  
**WGES 1360 500 Chicago, Ill.**  
 Oak Leaves Broadcasting Station, Inc.  
**WGH 1310 100 Newport News, Va.**  
 Hampton Roads Broadcasting Corp.  
**WGL 1370 100 Fort Wayne, Ind.**  
 F. C. Zieg, 213 W. Main St.  
**WGLC 1370 100 Hudson Falls, N. Y.**  
 O. T. Griffin & G. F. Blssett.  
**WGN 720 50000 Chicago, Ill.**  
 WGN, Inc., Tribune Tower.  
**WGNV 1210 100 Chester, N. Y.**  
 Peter Goelet (Orange County).  
**WGR 550 1000 Buffalo, N. Y.**  
 Buffalo Broadcasting Corp.  
**WGST 890 250 Atlanta, Ga.**  
 Georgia School of Technology.  
**WGY 790 50000 Schenectady, N. Y.**  
 National Broadcasting Co., Inc.  
**WHA 849 1000 Madison, Wis.**  
 University of Wisconsin.  
**WHAD 1120 250 Milwaukee, Wis.**  
 Marquette University.  
**WHAM 1150 50000 Rochester, N. Y.**  
 Stromberg-Carlson Tel. Mfg. Co.  
**WHAS 820 50000 Louisville, Ky.**  
 Courier Journal & Louisville Times.  
**WHAT 1310 100 Philadelphia, Pa.**  
 Curtis-Martin Newspapers, Inc.  
**WHAZ 1300 500 Troy, N. Y.**  
 Rensselaer Polytechnic Institute.  
**WHB 860 500 Kansas City, Mo.**  
 WHB Broadcasting Co., Scarritt Bldg.  
**WHBC 1200 100 Canton, Ohio.**  
 Edw. P. Graham, 319 Tus. St., W.  
**WHBD 1370 100 Mount Orab, Ohio.**  
 F. P. Moler.  
**WHBF 1210 100 Rock Island, Ill.**  
 Rock Island Broadcasting Co.  
**WHBL 1410 500 Sheboygan, Wis.**  
 Press Publishing Co.  
**WHBQ 1370 100 Memphis, Tenn.**  
 Broadcasting Sta. WNBQ, Inc., Hotel Claridge.  
**WHBU 1210 100 Anderson, Ind.**  
 Anderson Broadcasting Corp.  
**WHBY 1200 100 Green Bay, Wis.**  
 WHBY, Inc., Bellin Bldg.  
**WHDF 1370 100 Calumet, Mich.**  
 Upper Michigan Broadcasting Co.  
**WHDH 830 1000 Boston, Mass.**  
 Matheson Radio Co., 62 Boylston.  
**WHDL 1420 100 Tupper Lake, N. Y.**  
 Tupper Lake Broadcasting Co.

**WHES 740 250 Portsmouth, N. H.**  
 Granite State Broadcasting Corp.  
**WHEC 1430 500 Rochester, N. Y.**  
 WHEC, Inc., 40 Franklin St.  
**WHEF 1500 100 Kosciusko, Miss.**  
 Attala Milling & Produce Co.  
**WHET 1370 100 Dothan, Ala.**  
 Troy Broadcasting Co.  
**WHFC 1420 100 Cicero, Ill.**  
 WHFC, Inc., 6138 W. 22nd St.  
**WHIS 1410 250 Bluefield, W. Va.**  
 Daily Telegraph Printing Co., Inc.  
**WHK 1390 1000 Cleveland, Ohio.**  
 Radio Air Service Corp.  
**WHN 1010 250 New York, N. Y.**  
 Marcus Loew Booking Agency.  
**WHOM 1450 250 Jersey City, N. J.**  
 New Jersey Broadcasting Corp.  
**WHP 1430 580 Harrisburg, Pa.**  
 WHP, Inc., Harrisburg Telegraph.  
**WIAS 1310 100 Ottumwa, Iowa.**  
 Iowa Broadcasting Co., Hotel Ottumwa.  
**WIBA 1280 500 Madison, Wis.**  
 Badger Broadcasting Co., Inc.  
**WIBG 970 100 Glenside, Pa.**  
 WIBG, Inc., Keswick Bldg.  
**WIBM 1370 100 Jackson, Mich.**  
 WIBM, Inc., Otsego Hotel.  
**WIBU 1210 100 Poyette, Wis.**  
 Wm. C. Forrest, R. F. D. No. 3.  
**WIBW 580 1000 Topeka, Kans.**  
 Topeka Broadcasting Assn. Inc.  
**WIBX 1200 100 Utica, N. Y.**  
 WIBX, Inc., 1st Natl. Bank Bldg.  
**WICC 600 250 Bridgeport, Conn.**  
 Shepard Broadcasting Service, Inc.  
**WIL 1200 100 St. Louis, Mo.**  
 Missouri Broadcasting Corp.  
**WILL 890 250 Urbana, Ill.**  
 University of Illinois.  
**WILM 1420 100 Wilmington, Del.**  
 Delaware Broadcasting Co., Inc.  
**WIND 580 1000 Gary, Ind.**  
 Johnson-Kennedy Broadcasting Corp.  
**WINS 1180 600 New York, N. Y.**  
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**WIOD 1300 1000 Miami, Fla.**  
 Isle of Dreams Broadcasting Corp.  
**WIP 610 500 Philadelphia, Pa.**  
 Pennsylvania Broadcasting Co.  
**WIS 1010 500 Columbia, S. C.**  
 Station WIS, Inc., 1811 Main St.  
**WISN 1120 250 Milwaukee, Wis.**  
 American Radio News Corp.  
**WJAC 1310 180 Johnstown, Pa.**  
 WJAC, Inc., Tribune Bldg. Annex.  
**WJAG 1080 1000 Norfolk, Neb.**  
 Norfolk Daily News.  
**WJAR 890 600 Providence, R. I.**  
 Outlet Co., Weybossett St.  
**WJAS 1290 1000 Pittsburgh, Pa.**  
 Pittsburgh Radio Supply House.  
**WJAX 900 1000 Jacksonville, Fla.**  
 City of Jacksonville.  
**WJAY 610 500 Cleveland, Ohio.**  
 Cleveland Radio Broadcasting Corp.  
**WJBC 1200 100 LaSalle, Ill.**  
 Kaskaakia Broadcasting Co.  
**WJBI 1210 100 Red Bank, N. J.**  
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**WJBK 1370 50 Detroit, Mich.**  
 James F. Hopkins, Inc., Curtis Bldg.

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<b>WJBO 1420 100</b> Baton Rouge, La. Baton Rouge Broadcasting Co., Inc.	<b>WLBK 1420 100</b> Kansas City, Kans. WLBK Broadcasting Co., Huron Bldg.
<b>WJBW 1200 100</b> New Orleans, La. C. C. Carlson, 2743 Dumaine St.	<b>WLBI 900 2500</b> Stevens Point, Wis. Wisconsin Dept. of Agriculture and Markets.
<b>WJBY 1210 100</b> Gadsden, Ala. Gadsden Broadcasting Co., 112 N. 8th St.	<b>WLBW 1280 500</b> Erie, Pa. Broadcasters of Pennsylvania, Inc.
<b>WJDX 1270 1000</b> Jackson, Miss. Lamar Life Insurance Co.	<b>WLBZ 820 500</b> Bangor, Me. Maine Broadcasting Co., Inc., 100 Main.
<b>WJEJ 1210 100</b> Hagerstown, Md. Hagerstown Broadcasting Co., Inc.	<b>WLEC 1340 250</b> Portland, Me. Casco Bay Broadcasting Co.
<b>WJEM 990 500</b> Tupelo, Miss. Britt A. Rogers, Jr.	<b>WLEY 1370 100</b> Lexington, Mass. Albert S. Moffat
<b>WJJD 1130 20000</b> Chicago, Ill. WJJD, Inc., 201 N. Wells St.	<b>WLIT 580 500</b> Philadelphia, Pa. Lit Bros. Broadcasting System, Inc.
<b>WJMS 1420 100</b> Ironwood, Mich. WJMS, Inc., St. James Hotel.	<b>WLS 870 50000</b> Chicago, Ill. Agricultural Broadcasting Co.
<b>WJR 750 10000</b> Detroit, Mich. WJR, Inc., Fisher Bldg.	<b>WLTH 1400 500</b> Brooklyn, N. Y. Voice of Brooklyn, Inc.
<b>WJSV 1460 10000</b> Washington, D. C. Old Dominion Broadcasting Co.	<b>WLVA 1370 100</b> Lynchburg, Va. Lynchburg Broadcasting Corp.
<b>WJTL 1370 100</b> Atlanta, Ga. Oglethorpe University.	<b>WLW 700 50000</b> Cincinnati, Ohio. Croley Radio Corp.
<b>WJW 1210 100</b> Akron, Ohio. WJW, Inc., 41 S. High St.	<b>WLWL 1100 5000</b> New York, N. Y. Missionary Society of St. Paul.
<b>WJZ 750 50000</b> New York, N. Y. National Broadcasting Co., Inc.	<b>WMAL 830 250</b> Washington, D. C. National Broadcasting Co., Inc.
<b>WKAQ 1240 1000</b> San Juan, P. R. Radio Corp. of Porto Rico.	<b>WMAQ 870 5000</b> Chicago, Ill. National Broadcasting Co., Inc.
<b>WKAR 1040 1000</b> East Lansing, Mich. Michigan State College.	<b>WMAS 1420 100</b> Springfield, Mass. WMAS, Inc., Hotel Stonehaven.
<b>WKBB 1500 100</b> East Dubque, Ill. Richard W. Hoffman	<b>WMAZ 1180 500</b> Macon, Ga. Southeastern Broadcasting Co.
<b>WKBC 1310 100</b> Birmingham, Ala. R. B. Broyles, Tutwiler Hotel.	<b>WMCB 1420 100</b> Detroit, Mich. Michigan Broadcasting Co.
<b>WKBF 1400 500</b> Indianapolis, Ind. Indianapolis Broadcasting, Inc.	<b>WMBD 1440 500</b> Peoria, Ill. Peoria Broadcasting Co.
<b>WKBH 1380 1000</b> LaCrosse, Wis. WKBH, Inc., 409 Main St.	<b>WMBG 1210 100</b> Richmond, Va. Havens and Martin, Inc.
<b>WKBI 1420 100</b> Cicero, Ill. WKBI, Inc., 6138 W. 22nd St.	<b>WMBH 1420 100</b> Joplin, Mo. W. M. Robertson.
<b>WKBN 570 500</b> Youngstown, Ohio. WKBN Broadcasting Corp.	<b>WMBI 1080 5000</b> Chicago, Ill. Moody Bible Institute.
<b>WKBO 1200 100</b> Harrisburg, Pa. Keystone Broadcasting Corp.	<b>WMBO 1310 100</b> Auburn, N. Y. WMBO, Inc., Metcalf Bldg.
<b>WKBV 1500 100</b> Richmond, Ind. Wm. O. Knox, Box 286	<b>WMBQ 1500 100</b> Brooklyn, N. Y. Paul J. Gollhofer, 95 Leonard St.
<b>WKBW 1480 5000</b> Buffalo, N. Y. Buffalo Broadcasting Corp.	<b>WMBR 1370 100</b> Tampa, Fla. F. J. Reynolds, 907 Florida Ave.
<b>WKBZ 1500 100</b> Ludington, Mich. Karl L. Ashbacher & Sons.	<b>WMC 780 500</b> Memphis, Tenn. WMC, Inc., Hotel Gayoso.
<b>WKEU 1500 100</b> LaGrange, Ga. Radio Station WKEU, 906 Hill St.	<b>WMCA 570 500</b> New York, N. Y. Knickerbocker Broadcasting Co.
<b>WKFI 1210 100</b> Greenville, Miss. J. Pat Scully, Box 302.	<b>WMMN 890 250</b> Fairmont, W. Va. A. M. Rowe, Inc., 325 Main St.
<b>WKJC 1200 100</b> Lancaster, Pa. Lancaster Broadcasting Service, Inc.	<b>WMPC 1500 100</b> Lapeer, Mich. First Methodist Protestant Church.
<b>WKOK 1210 100</b> Sunbury, Pa. Sunbury Broadcasting Co.	<b>WMT 600 500</b> Waterloo, Iowa. Waterloo Broadcasting Co.
<b>WKRC 550 1000</b> Cincinnati, Ohio. WKRC, Inc., Hotel Alma.	<b>WNAC 1230 1000</b> Boston, Mass. Shepard Broadcasting Service, Inc.
<b>WKY 900 1000</b> Oklahoma City, Okla. Oklahoma Publishing Co.	<b>WNAD 1010 500</b> Norman, Okla. University of Oklahoma.
<b>WKZO 580 1000</b> Kalamazoo, Mich. John E. Fetzer, Burdick Hotel.	<b>WNAX 570 1000</b> Yankton, S. D. The House of Gurney, Inc., 2nd and Capital St.
<b>WLAC 1470 5000</b> Nashville, Tenn. Life & Casualty Insurance Co.	<b>WNBK 1500 100</b> Binghamton, N. Y. Howitt-Wood Radio Co., Inc.
<b>WLAP 1200 100</b> Louisville, Ky. American Broadcasting Corp. of Ky.	<b>WNBH 1310 100</b> New Bedford, Mass. New Bedford Broadcasting Co.
<b>WLB 1250 1000</b> Minneapolis, Minn. University of Minnesota.	<b>WNBO 1200 100</b> Silver Haven, Pa. John Brownlee Spriggs. (Washington, Pa.)

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<b>WNBW 1200 10 Carbondale, Pa.</b> WNBW, Inc., 50 Main St., N.	<b>WQAN 880 250 Scranton, Pa.</b> Scranton Times, 149 Penn Ave.
<b>WNBX 1280 250 Springfield, Vt.</b> WNBX Broadcasting Corp., 39 Main St.	<b>WQAO 1010 250 New York, N. Y.</b> Marcus Loew Booking Agency.
<b>WNBZ 1290 50 Saranac Lake, N. Y.</b> Smith & Mace, 70 Broadway.	<b>WQBC 1360 500 Vicksburg, Miss.</b> Delta Broadcasting Co., Hotel Vicksburg.
<b>WNEW 1250 1000 Newark, N. J.</b> Wodaam Corp., 1060 Broad	<b>WQDM 1370 100 St. Albans, Vt.</b> A. J. St. Antoine and E. J. Regan.
<b>WNOX 560 1000 Knoxville, Tenn.</b> WNOX, Inc.	<b>WQDX 1210 100 Thomasville, Ga.</b> Stevens Luke, 135 E. Jackson St.
<b>WNRA 1420 100 Muscle Shoals, Ala.</b> Kathryn Jones	<b>WRAK 1370 100 Williamsport, Pa.</b> WRAX, Inc., 244 W. 4th St.
<b>WNYC 810 500 New York, N. Y.</b> Dept. of Plant and Structures.	<b>WRAM 1370 100 Wilmington, N. C.</b> Wilmington Radio Assn., Princess St.
<b>WOAI 1190 50000 San Antonio, Texas.</b> Southern Industries, Inc., 1038 Navarro.	<b>WRBW 1310 100 Reading, Pa.</b> Reading Broadcasting Co., 533 Penn St.
<b>WOBU 580 750 Charleston, W. Va.</b> WOBU, Inc., Ruffner Hotel.	<b>WRAX 1020 250 Philadelphia, Pa.</b> WRAX Broadcasting Co., 217 S. Broad St.
<b>WOC- 1000 50000 Des Moines, Iowa.</b> WHO Central Broadcastg. Co., 914 Walnut St.	<b>WRBL 1200 100 Columbus, Ga.</b> WRBL Radio Station, Inc.
<b>WOCL 1210 50 Jamestown, N. Y.</b> A. E. Newton, 840 N. Main St.	<b>WRBX 1410 250 Roanoke, Va.</b> Richmond Development Corp.
<b>WODX 1410 500 Mobile, Ala.</b> Mobile Broadcasting Corp., Battle House.	<b>WRC 850 500 Washington, D. C.</b> National Broadcasting Co., Inc.
<b>WOI 840 5000 Ames, Iowa.</b> Iowa State College.	<b>WRDO 1370 100 Augusta, Me.</b> WRDO, Inc., Augusta House.
<b>WOKO 1430 500 Albany, N. Y.</b> WOKO, Inc., Hotel Ten Eyck.	<b>WRDW 1500 100 Augusta, Ga.</b> Virgil V. Evans Co., 309 8th St.
<b>WOL 1310 100 Washington, D. C.</b> American Broadcasting Co., Annapolis Hotel.	<b>WREC 800 500 Memphis, Tenn.</b> WREC, Inc., Hotel Peabody.
<b>WOMT 1210 100 Manitowoc, Wis.</b> Francis M. Kadow, Box 326.	<b>WREN 1220 1000 Lawrence, Kans.</b> Jenny Wren Co., 8th and Vermont St.
<b>WOOD 1270 500 Grand Rapids, Mich.</b> Kunsky-Trendle Broadcasting Corp.	<b>WRHM 1250 1000 Minneapolis, Minn.</b> Minnesota Broadcasting Corp., 115 E. Grant.
<b>WOPI 1500 100 Bristol, Tenn.</b> Radiophone Broadcasting Station WOPI, Inc.	<b>WRJN 1370 100 Racine, Wis.</b> Racine Broadcasting Corp., Hotel Racine.
<b>WOQ 1300 1000 Kansas City, Mo.</b> Unity School of Christianity.	<b>WRNY 1010 250 New York, N. Y.</b> Marcus Loew Booking Agency.
<b>WOR 710 5000 Newark, N. J.</b> Bamberger Broadcasting Service, Inc.	<b>WROL 1310 100 Knoxville, Tenn.</b> Stuart Broadcasting Corp., 524 S. Gay.
<b>WORC 1280 500 Worcester, Mass.</b> Alfred F. Kleindienst, 60 Franklin St.	<b>WRR 1280 500 Dallas, Texas.</b> City of Dallas, Hilton Hotel.
<b>WORK 1000 1000 York, Pa.</b> York Broadcasting Co., 15 S. Beaver St.	<b>WRUF 830 5000 Gainesville, Fla.</b> State University.
<b>WOS 630 500 Jefferson City, Mo.</b> State Highway Control, Capitol Bldg.	<b>WRVA 1110 5000 Richmond, Va.</b> Larus & Bro. Co., Inc., 22nd and Gary St.
<b>WOSU 570 750 Columbus, Ohio.</b> Ohio State University.	<b>WSAI 1330 1000 Cincinnati, Ohio.</b> Crosley Radio Corp., 1329 Arlington.
<b>WOV 1130 1000 New York, N. Y.</b> International Broadcasting Corp.	<b>WSAJ 1310 100 Grove City, Pa.</b> Grove City College.
<b>WOW 590 1000 Omaha, Neb.</b> Woodmen of the World, 4th and Farnam.	<b>WSAN 1440 250 Altentown, Pa.</b> WSAN, Inc., 39 10th St.
<b>WOWO 1160 10000 Fort Wayne, Ind.</b> Main Auto Supply Co., 213 W. Main.	<b>WSAR 1450 250 Fall River, Mass.</b> Doughty & Welch Electric Co., Inc.
<b>WPAD 1420 100 Paducah, Ky.</b> Paducah Broadcasting Co., Inc.	<b>WSAZ 1190 1000 Huntington, W. Va.</b> WSAZ, Inc., 929½ 4th Ave.
<b>WPAP 1010 250 New York, N. Y.</b> Marcus Loew Booking Agency.	<b>WSB 740 50000 Atlanta, Ga.</b> Atlanta Journal, 7 N. Forsyth St.
<b>WPEN 1500 100 Philadelphia, Pa.</b> William Penn Broadcasting Co.	<b>WSBC 1210 100 Chicago, Ill.</b> Gene T. Dyer, 1258 S. Michigan Ave.
<b>WPFB 1370 100 Hattiesburg, Miss.</b> Otis P. Eure, Box 530.	<b>WSBT 1230 500 South Bend, Ind.</b> South Bend Tribune.
<b>WPG 1100 5000 Atlantic City, N. J.</b> Columbia Broadcasting System.	<b>WSEN 1210 100 Columbus, Ohio.</b> Columbus Broadcasting Corp., 144 S. High.
<b>WPHR 1200 100 Petersburg, Va.</b> WLBG, Inc., Medical Arts Bldg.	<b>WSFA 1410 500 Montgomery, Ala.</b> Montgomery Bldg. Co., Inc., Jeff. Dav. H'l.
<b>WPRO 1210 100 Providence, R. I.</b> Cherry & Webb Broadcasting Co., 15 Chestnut.	<b>WSIX 1210 100 Springfield, Tenn.</b> 638 Tire & Vulcanizing Co.
<b>WPTF 680 5000 Raleigh, N. C.</b> Durham Life Insurance Co.	<b>WSJS 1310 100 Winston-Salem, N. C.</b> Winston-Salem Journal Co., 416 N. Marshall.

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<b>WSM</b> 850 50000 Nashville, Tenn. National Life & Accident Insurance Co.	<b>XEA</b> 1000 250 Guadajajara, Jal. Alberto Palos Souza. Juan Manuel 383
<b>WSMB</b> 1320 500 New Orleans, La. WSMB, Inc., Malson Blanche Bldg.	<b>XEAB</b> 1450 7.5 Nuevo Laredo, Tams. Humberto Garcia.
<b>WSMK</b> 1380 200 Dayton, Ohio. S. M. Krohn, Jr., 4th and Main St.	<b>XEAC</b> 1295 100 San Luis Potosi, S.L.P. Francisco de P. Cabrera.
<b>WSOC</b> 1210 100 Charlotte, N. C. WSOC, Inc., Box 730.	<b>XEAE</b> 980 800 Tijuana, B. C. Adolfo Labastida, Jr., Ave. D 542.
<b>WSPA</b> 1420 100 Spartanburg, S. C. Virgil V. Evans, Ravenel and Avant St.	<b>XEAF</b> 990 750 Nogales, Son. Manuel Mascareñas M., Hotel Central.
<b>WSPD</b> 1340 1000 Toledo, Ohio. Toledo Broadcasting Co., 505 Jefferson	<b>XEAI</b> 1090 100 Mexico City, D. F. Carlos Gonzales Caballero, Insurgentes 366.
<b>WSUI</b> 880 500 Iowa City, Iowa. State University of Iowa.	<b>XEAO</b> 660 100 Mexicali, B. C. Luis L. Castro, C. Altamirano 156.
<b>WSUN</b> 620 1000 St. Petersburg, Fla. Florida Westcoast Broadcasting Co., Inc.	<b>XEAW</b> 985 10000 Reynosa, Tams. Internacional Broadcasting Co., S. A.
<b>WSVS</b> 1370 50 Buffalo, N. Y. Seneca Vocational High School.	<b>XEB</b> 1030 10000 Mexico City, D. F. El Buen Tono, S. A., Buen Tono No. 6.
<b>WSYB</b> 1500 100 Rutland, Vt. Phillip Weiss Music Co., 80 West St.	<b>XEC</b> 1000 50 Toluca, D. F. Jesus R. Benavides, Independencia 76.
<b>WSYR</b> 670 250 Syracuse, N. Y. Central New York Broadcasting Corp.	<b>XED</b> 1155 500 Guadajajara, Jal. Radlologografica de Guadajajara, S. A.
<b>WTAD</b> 1440 500 Quincy, Ill. Illinois Broadcasting Corp., State and 6th.	<b>XEF</b> 735 150000 Villa Acuna, Coah. Compania Radiodifusora de Acuna, S. A.
<b>WTAG</b> 580 750 Worcester, Mass. Worcester Telegram Publishing Co.	<b>XEFA</b> 1250 500 Mexico City, D. F. Eduardo Limon Segui, Mediterraneo 236
<b>WTAM</b> 1070 50000 Cleveland, Ohio. National Broadcasting Co., Inc.	<b>XEFB</b> 1315 100 Monterrey, N. L. Jesus Quintanilla, 5 de Mayo Oriente 112.
<b>WTAQ</b> 1330 1000 Eau Claire, Wis. Gillette Rubber Co., Hotel Eau Claire.	<b>XEFC</b> 1050 100 Merida, Yuc. J. Molina Font, Calle 59, 517.
<b>WTAR</b> 780 500 Norfolk, Va. WTAR Radio Corp., Wainwright Bldg.	<b>XEFE</b> 985 100 Laredo, Tams. Rafael T. Carranza.
<b>WTAW</b> 1120 500 College Station, Texas. Agricultural and Mechanical College.	<b>XEFG</b> 1085 500 Mexico City, D. F. Ricardo Gonzales Montero, Tepic 48
<b>WTAX</b> 1210 100 Springfield, Ill. WTAX, Inc., 416 E. Capitol Ave.	<b>XEFI</b> 1250 250 Chihuahua, Chih. Felleliano Lopes Lste, Ap. 157.
<b>WTBO</b> 1420 100 Cumberland, Md. Associated Broadcasting Corp., Box 794.	<b>XEFJ</b> 1000 100 Monterrey, N. L. R. Junco de la Vega, C. Morelos Oriente 759.
<b>WTEL</b> 1310 100 Philadelphia, Pa. Foulkrod Radio Engineering Co., Inc.	<b>XEFO</b> 840 50000 Mexico City, D. F. Partido Nacional Revolucionario.
<b>WTFI</b> 1450 500 Athens, Ga. Liberty Broadcasting Co., Costa Bldg.	<b>XEFS</b> 1800 40 Queretaro, Qro. Salvador Sanchez, Calle Montes 23.
<b>WTIC</b> 1060 50000 Hartford, Conn. Travelers Broadcasting Service Corp.	<b>XEFV</b> 1400 100 Jurez, Chih. J. Onofre Meza, Ave. Lerdo Norte 521.
<b>WTJS</b> 1310 100 Jackson, Tenn. Sun Publishing Co., Sun Bldg.	<b>XEFW</b> 1280 70 Tampico, Tams. J. Expedito Martinez, C. Madero Ponsente 19.
<b>WTMJ</b> 620 1000 Milwaukee, Wis. The Journal Co., 333 W. State St.	<b>XEFZ</b> 1370 100 Mexico City, D. F. Manuel Zetina
<b>WTNJ</b> 1280 500 Trenton, N. J. Trenton Broadcasting Co., Stacy Trent Hotel	<b>XEH</b> 1132 250 Monterrey, N. L. Tarnava y Cla, P. Mier 215.
<b>WTOC</b> 1260 500 Savannah, Ga. Savannah Broadcasting Co., Inc., DeSoto Hotel.	<b>XEI</b> 1310 250 Morelia, Mich. Carlos Gutierrez M., F. I. Madero 545
<b>WTRC</b> 1310 50 Elkhart, Ind. Truth Radio Corp., Hotel Elkhart.	<b>XEJ</b> 1015 500 Jurez, Chih. Juan G. Buttner, Ave. Lerdo 309.
<b>WVFW</b> 1400 500 Brooklyn, N. Y. Paramount Brdcastg. Co., 1 Nevins St.	<b>XEK</b> 990 100 Mexico City, D. F. Arturo Martinez. Jalapa No. 51
<b>WWAE</b> 1200 100 Hammond, Ind. Hammond Calumet Broadcasting Corp.	<b>XEL</b> 1000 40 Saltillo, Coah. Antonio Garza Castro, Aldama 59
<b>WWJ</b> 920 1900 Detroit, Mich. Evening News Assn., 616 Lafayette Blvd.	<b>XEN</b> 711 1000 Mexico City, D. F. Cervceria Modelo S. A., Motolinia 22.
<b>WWL</b> 850 10000 New Orleans, La. Loyola University, Roosevelt Hotel.	<b>XENT</b> 1115 150000 Nuevo Laredo, Tams. Cia Industrial Universal S. A., Apt. 47.
<b>WWNC</b> 670 1000 Asheville, N. C. Citizen Broadcasting Co., Inc., Flatiron Bldg.	<b>XEO</b> 840 50000 Mexico City, D. F. Partido Nacional Revolucionario.
<b>WWRL</b> 1600 100 Woodside, N. Y. Long Island Broadcasting Corp.	<b>XEOK</b> 760 2500 Tijuana, B. C. Carlos de la Sierra, (Box 1441, San Diego).
<b>WWSW</b> 1500 100 Pittsburgh, Pa. Walker & Downing Radio Corp.	<b>XEP</b> 780 500 Mexico City, D. F. Cia Difusora de Mexico S. A., Durango 74.
<b>WWVA</b> 1180 5000 Wheeling, W. Va. West Virginia Broadcasting Corp.	<b>XEPN</b> 585 75000 Piedras Negras, Coah. Piedras Negras Broadcasting Co.
<b>WXYZ</b> 1240 1000 Detroit, Mich. Kunsky-Trendle Broadcasting Corp.	<b>XER</b> 735 150000 Villa Acuna, Coah. Compania Radiodifusora de Acuna, S. A.

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<b>XES</b>	<b>1020</b>	<b>250</b>	<b>Tampico, Tams.</b> Fernando Sada, Hotel Inglaterra.
<b>XET</b>	<b>690</b>	<b>500</b>	<b>Monterrey, N. L.</b> Cadena Radiodifusora Mexicana, S. A.
<b>XETB</b>	<b>1380</b>	<b>125</b>	<b>Torreón, Coah.</b> Jose A. Berumen, R. Corona 317.
<b>XETH</b>	<b>860</b>	<b>100</b>	<b>Puebla, Pue.</b> Ramon Huerta G., Calle 17, Oriente 6.
<b>XETU</b>	<b>890</b>	<b>100</b>	<b>Pachuca, Hdga.</b> Benito Castillo
<b>XETW</b>	<b>830</b>	<b>500</b>	<b>Mexico City, D. F.</b> Rafael M. Pena, Gante 4, 3er piso
<b>XETZ</b>	<b>1210</b>	<b>500</b>	<b>Mexico City, D. F.</b> Jose Alvarez del Villar, 92 Londres 190.
<b>XEU</b>	<b>1010</b>	<b>100</b>	<b>Veracruz, Ver.</b> Fernando Pazos Sosa, Vicario 12.
<b>XEW</b>	<b>910</b>	<b>6000</b>	<b>Mexico City, D. F.</b> Cadena Radiodifusora Mexicana S. A.
<b>XEWW</b>	<b>1100</b>	<b>250</b>	<b>Veracruz, Ver.</b> Horacio Remes, Calle Canal 42.
<b>XEX</b>	<b>630</b>	<b>50</b>	<b>Monterrey, N. L.</b> Luis F. Petit Jean, Aldama 932 Sur.
<b>XEY</b>	<b>548.3</b>	<b>10</b>	<b>Merida, Yuc.</b> Partido Socialista del Surest.
<b>XEYZ</b>	<b>760</b>	<b>10000</b>	<b>Mexico City, D. F.</b> Angel M. Diez, Ave. Juarez 43.

<b>XEZ</b>	<b>630</b>	<b>500</b>	<b>Merida, Yuc.</b> Bartolome Garcia Correa, Calle 58 No. 497.
<b>XFB</b>	<b>1290</b>	<b>1000</b>	<b>Jalapa, Ver.</b> Gobierno del Estado de Veracruz.
<b>XFC</b>	<b>805</b>	<b>350</b>	<b>Agascalientes, Agu.</b> Gobierno del Estado de Aguascalientes, D. F.
<b>XFG</b>	<b>638.3</b>	<b>2000</b>	<b>Mexico City, D. F.</b> Secretaria de Guerra y Marina.
<b>XFO</b>	<b>940</b>	<b>5000</b>	<b>Mexico City, D. F.</b> National Revolucionario Party.
<b>XFX</b>	<b>840</b>	<b>500</b>	<b>Mexico City, D. F.</b> Secretaria de Educacion Publica.
<b>YV1BC</b>	<b>960</b>	<b>6000</b>	<b>Caracas, Venez.</b> Cla Ama Alamaacen Americana.
<b>YV2BC</b>	<b>882</b>	<b>100</b>	<b>Caracas, Venez.</b>
<b>YV3BC</b>	<b>1200</b>	<b>1000</b>	<b>Caracas, Venez.</b> Degwitz & Sibleez.
<b>10-AK</b>	<b>1200</b>	<b>15</b>	<b>Stratford, Ont.</b> M. I. Higgins, 151 Ontario St.
<b>10-BP</b>	<b>1200</b>	<b>15</b>	<b>Wingham, Ont.</b> W. T. Crulckhank.
<b>10-BQ</b>	<b>1200</b>	<b>15</b>	<b>Brantford, Ont.</b> Tom and Harold Brown.
<b>10-BU</b>	<b>1200</b>	<b>15</b>	<b>Canora, Sask.</b> Canora Radio Assn.

## SHORT WAVE RELAY BROADCASTING STATIONS

### *Grouped According to Network Programs Transmitted*

Frequency in megacycles in first column, wavelength in meters in second column, schedule in third column, time being EST. The location of the broadcast band station is given in parentheses following the geographical location of the short wave transmitter.

#### COLUMBIA BROADCASTING SYSTEM

<b>W2XE-WABC</b> , Wayne, N. J. (New York, N. Y.)
15.258 19.65 11 a.m. to 1 p.m.
11.823 25.36 3 p.m. to 5 p.m.
6.116 49.02 6 to 11 p.m.
<b>W3XA-U-WCAU</b> , Byberry, Pa. (Philadelphia, Pa.)
9.585 31.28 Noon to 6 p.m.
6.057 49.50 8 p.m. to 1 a.m.

#### NATIONAL "RED" NETWORK

<b>W1XAL-WEEI</b> Boston Mass. (Boston, Mass.)
15.242 19.67 Sunday, 10 a.m. to 1 p.m.
11.780 25.45 Sat., 5:30 to 11 p.m.; Sun., 6:30-8:30 p.m.
<b>W2XAD-WGY</b> , Schenectady, N. Y. (Schenectady, N. Y.)
15.320 19.57 Mon., Wed., Fri., Sun., 4-5 p.m.
<b>W2XAF-WGY</b> , Schenectady, N. Y. (Schenectady, N. Y.)
9.530 31.46 7:45 to 11 p.m.
<b>W9XAA-WCFL</b> , Chicago, Ill. (Chicago, Ill.)
17.780 16.86 Very Irregular
11.840 25.35 Irregular
6.076 49.34 3 to 6 p.m.

#### NATIONAL "BLUE" NETWORK

<b>W1XAZ-WBZ-WBZA</b> , Millis, Mass. (Boston and Springfield, Mass.)
9.560 31.36 6 a.m. to midnight

#### W3XAL-WJZ Boundbrook, N. J. (New York, N. Y.)

17.772 16.87 12:30 to 6:30 p.m., except Sat.
6.096 49.17 Saturday 3 p.m. to midnight
<b>W3XL-WJZ</b> , Boundbrook, N. J. (New York, N. Y.)
6.425 46.66 Fri., 5 p.m. to 1 a.m.
<b>W8XK-KDKA</b> , Saxonburg, Pa. (Pittsburgh, Pa.)
21.451 13.93 7 a.m. to 2 p.m.
15.204 19.72 10 a.m. to 4:15 p.m.
11.870 25.25 4:30 to 10 p.m.
6.140 48.83 4:30 p.m. to 12:30 a.m.

#### NATIONAL "RED" AND "BLUE" NETWORK

<b>VE9DR-CFCF</b> , Montreal, Quebec (Montreal, Quebec)
6.005 49.93 Sun., noon to 11:15 p.m. Other days, 7:30 a.m. to midnight
<b>VE9GW-CRCT</b> , Bowmanville, Ont. (Toronto, Ontario)
6.092 49.22 Thurs., 7 a.m. to 4 p.m.; Fri. and Sat., 3 to 11 p.m.; Sun., 11 a.m. to 8 p.m.
<b>W4XB-WIOD</b> , Miami Beach, Fla. (Miami Beach, Fla.)
6.036 49.67 Irregular
<b>W8XAL-WLW</b> , Mason, Ohio (Cincinnati, Ohio)
6.060 49.48 Irregular
<b>W9XP-WENR</b> , Downer's Grove, Ill. (Chicago, Ill.)
6.100 49.15 Sat., silent; Sun., 1 to 2:30 p.m., 4:30 to 7 p.m., 9 p.m. to 2 a.m.; other days, 4:30 to 8 p.m., 9:30 p.m. to 2 a.m.

## Index by Frequencies and Dial Numbers

(Continued from page 74)

<b>WWSW</b>	<b>ae</b>	<b>100</b>	<b>(.25)</b>	<b>Pittsburgh, Pa.</b>	<b>E—8:00-11:45</b>
	<b>z</b>	<b>100</b>	<b>P (.25)</b>	<b>Chelsea, Mass.</b>	<b>E</b>
	<b>z</b>	<b>100</b>	<b>DP</b>	<b>Hot Springs, Ark.</b>	<b>C</b>

**1510 kilocycles 198.6 meters**

<b>CFRC</b>	<b>ak</b>	<b>100</b>		<b>Kingston, Ont.</b>	<b>E</b>
<b>CKCR</b>	<b>ak</b>	<b>100</b>		<b>Kitchener, Ont.</b>	<b>E—10-1:30; 4-11</b>

# AROUND *the* CLOCK on the SHORT WAVES

MIDNIGHT TO NOON (EST)

GMT	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00
<b>AST</b>	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
<b>EST</b>	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
<b>CST</b>	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
<b>MST</b>	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
<b>PST</b>	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
	W3XAU W8XK W9XF	VK2ME W9XF	GSD GSF VK2ME	GSD GSF RV15 VQ7LO	PK1WK RV15 VQ7LO	HVJ J1AA RV15 VK2ME VK3ME PK1WK VQ7LO	J1AA RV15 VK2ME ZGE	EAR58 GSE GSG PHI Rabat RV15 VE9DR VE9GW VK2ME W1XAZ W8XK ZGE	DJB EAR58 GSE GSG PHI Rabat VE9DR VE9GW VK2ME W1XAZ W8XK YV2AM ZGE	DJB GSB GSF PHI Pont. VE9DR VE9GW VK2ME W1XAZ W8XK YV2AM	CT3AQ DJB D1D GSB GSF Pont. VE9DR VE9GW W1XAL W1XAZ W8XK	CT3AQ DJB D1D GSA I2RO Pont. VE9DR VE9GW VE9JR W1XAL W1XAZ W8XK

NOON TO MIDNIGHT (EST)

GMT	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	1:00	2:00	3:00	4:00
<b>AST</b>	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
<b>EST</b>	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
<b>CST</b>	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
<b>MST</b>	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
<b>PST</b>	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
	DJB D1D GSA GSB I2RO Pont. VE9DR VE9GW VE9JR W1XAL W1XAZ W2XE W3XAL W3XAU W8XK	DJB D1D GSC GSD I2RO Pont. RNE VE9DR VE9GW VE9JR W1XAL W3XAL W3XAU W8XK W9XF	DJB D1D GSC GSD I2RO Pont. Rabat RV59 VE9DR VE9GW VE9JR W1XAL W2XE W3XAL W3XAU W8XK W9XF	DJB D1D GSC GSD HAT I2RO Pont. Rabat RV59 VE9DR VE9GW VE9JR W1XAL W2XE W3XAL W3XAU W8XK	CT1AA D1D DJB DJA DJD GSA GSC GSD I2RO Pont. Rabat RV59 HBL HBP HIZ I2RO Pont. RV59 VE9DR VE9GW VE9JR W1XAL W2XE W3XAL W3XAU W8XK W9XF YV3BC	CT1AA CT3AQ DJA DJD GSA GSC GSD EAR58 GSA HBL HBP HC2RL HJ1ABB HIZ I2RO Pont. RV59 VE9DR VE9GW W1XAL W2XE W3XAL W8XK W9XF XETE YV1BC YV3BC	CP5 CT1AA DJA DJD GSA GSC GSD GSA HBL HBP HC2RL HJ1ABB HIZ I2RO Pont. RV59 VE9DR VE9GW W1XAL W2XE W3XAL W8XK W9XF XETE YV1BC YV3BC	CP5 DJA DJC G6RX GSC HC2RL HIX HJ1ABB HJ1ABB JABA J44ABE Pont. VE9DR VE9GW VE9JR W1XAL W2XAF W2XE W3XAL W8XK W9XF XETE YV1BC YV3BC	CP5 DJC G6RX HC2RL HIX HJ1ABB HJ2ABA HJ3ABD HJ4ABE HKN PRADO VE9DR VE9GW VE9JR W1XAL W2XAF W2XE W3XAL W8XK W9XF XETE YV1BC YV3BC	CP5 DJC HC2RL HJ 3ABD Pont. PRADO VE9DR VE9GW VE9JR W1XAL W2XAF W2XE W3XAL W8XK W9XF XETE YV1BC YV3BC	CP5 HJ 4ABB Pont. VE9DR W1XAL W3XAL W8XK W9XF XETE	

# One Hundred Best S. W. Stations by Calls

Stations marked with an asterisk (\*) will not verify. Frequencies are given in megacycles. Times are given in Eastern Standard.

- \*British Ships, 13.220, 8.831, 4.174  
 \*CEC, Chile, 19.678, 15.855  
 CGA, Canada, 13.296, 9.340  
 CNR, Morocco, 12.820  
 CP5, Bolivia, 6.081. 6:30 to 7:30 or 8 p.m., daily, exc. Sun.; 9-11:30 p.m. daily  
 CT1AA, Portugal, 9.592. Tues. and Fri., 4:30-7 p.m.  
 CT3AQ, Madeira, Tues., Thurs., 5-6:30 p.m.; Sun. 10:30 a.m.-noon.  
 DAF, Germany, 12.394  
 DFB, Germany, 17.512  
 DIQ, Germany, 10.285  
 DJA, Germany, 9.552. 5 to 9:15 p.m.  
 DJB, Germany, 15.190. 8 a.m. to 4:30 p.m.  
 DJC, Germany, 6.017. 8 to 10:15 p.m.  
 DJD, Germany, 11.753. 10 a.m. to 6 p.m.  
 DJL, Germany, 15.110  
 EAQ, Spain, 9.862. 5:30-8 p.m.  
 EAR58, Canaries, 7.207. 5 to 6:30 p.m.  
 EHY, Spain, 10.164  
 FTK, France, 15.863  
 FTM, France, 19.282  
 FZS, Indo-China, 11.993  
 \*German Ships, 13.135, 10.163, 8.328, 4.174  
 GAS, England, 18.304  
 GBB, England, 13.500  
 GBS, England, 12.148  
 GBW, England, 14.450  
 GSA, England, 6.050. 6-8 p.m.; 11 a.m.-1 p.m.; 4-5:45 p.m.  
 GSB, England, 9.510. 9 a.m.-1 p.m.  
 GSC, England, 9.585. 1:15 to 5:45 p.m.; 6 to 8 p.m.  
 GSD, England, 11.750. 2 to 4 a.m.; 1:15 to 5:45 p.m.  
 GSE, England, 11.805. 7-8:45 a.m.  
 GSF, England, 15.140. 2-4 a.m.; 9-11 a.m.  
 GSG, England, 17.770. 7 to 8:45 a.m.  
 G6RX, England, 4.972. Testing nights 4:30-8-10 p.m.  
 HAT, Hungary, 7.220. Tests Sunday, 4 p.m.  
 HBL, Switzerland, 9.580. Sat., 5:30 to 6:15 p.m.  
 HBP, Switzerland, 6.872. Sat., 5:30 to 6:15 p.m.  
 HC2JB, Ecuador, 4.283. 9 to 11 p.m.  
 HC2RL, Ecuador, 6.659. Tues., 9:14 to 11:14 p.m.; Sun., 5:45 to 7:45 p.m.  
 HC3B, Ecuador, 3.998. 8:14 to 10:14 daily, exc. Mon.  
 HCK, Ecuador, 5.894. 8 to 11 p.m.  
 HIX, Santo Domingo, 5.948. Tues. and Fri., 8 to 10 p.m.; Sun., 7:40 a.m.  
 HIZ, Santo Domingo, 6.379. 5-6 p.m.  
 HI-1 A, Santo Domingo, 6.272. 8-8:30 a.m.; 12:30-1:30 p.m.; 8-9 p.m.  
 \*HJB, Colombia, 14.930  
 \*HJY, Colombia, 18.444  
 HJ1AB, Colombia, 6.447. 5 to 10 p.m.  
 HJ2AB, Colombia, 5.879. 7:30 to 10 p.m.  
 HJ3AB, Colombia, 7.402. 9-11:15 p.m., daily  
 HJ4AB, Colombia, 7.139. Sat., 11 p.m. to Mid.; Sun. 3-5 p.m.; Wed., 8-10 p.m.  
 HJ4ABE, Colombia, 5.900. 7-11 p.m.  
 HJ5AB, Colombia, 6.378  
 HJ5ABF, Colombia, 8.271  
 HKN, Colombia, 7.138. 8-10 p.m., daily  
 \*HPF, Panama, 14.545.  
 HSP, Siam, 17.719  
 HVJ, Vatican City, 15.120. 5 to 5:15 a.m.  
 IAC, Italy, 12.785  
 I2RO, Italy, 11.800. 11:30 a.m. to 12:30 p.m.; 1:15 to 6 p.m.  
 J1AA, Japan, 9.862. 5 to 8 a.m.  
 KAY, Philippines, 14.980  
 KAZ, Philippines, 9.990  
 \*KKP, Hawaii, 16.024  
 LSN, Argentina, 9.895  
 LSX, Argentina, 10.345  
 LSY, Argentina, 18.116  
 \*OCI, Peru, 18.670  
 OXY, Denmark, 9.520. 2 to 6:30 p.m.  
 PHI, Holland, 11.725. 7:30 to 10 a.m., except Tues. and Wed.  
 PK1WK, Java, 6.116. 4:15-6 a.m.  
 PLE, Java, 18.820  
 PLV, Java, 9.410  
 Pontoise, France, 15.454  
 Pontoise, France, 15.234. 8-11 a.m.  
 11.898. 11:15 a.m. to 2:15 p.m.; 3 to 6 p.m.  
 11.711. 3 to 9 p.m.; 10 p.m. to mid.  
 \*PPU, Brazil, 19.270  
 PRADO, Ecuador, 6.618. Thursday, 9-11 p.m.  
 \*PSF, Brazil, 14.682  
 Rabat, Morocco, 12.820. Sun, 7:30 to 9 a.m.  
 8.218. Sun, 2:30 to 5 p.m.  
 Radio-Tananarive, Madagascar, 6.000. 2:30-4 a.m., Sun. 3-3:45 a.m., daily exc. Sun. and Mon.  
 RNE, USSR, 11.923. Testing Irregularly  
 RV15, Siberia, 4.273. 3-9 a.m., daily  
 RV59, USSR, 5.996. 3-6 p.m., daily  
 SRI, Poland, 9.488. 1-3 p.m., Tues.; 8-9 a.m., Wed.  
 TGA, Guatemala, 14.545  
 TIN-TIU, Costa Rica, 14.545  
 T14NRH, Costa Rica, 9.670.  
 UOR2, Austria, 6.072. 8:30-9 a.m.; 10 a.m.-1 p.m. and 2-4 p.m. on Tuesdays.  
 UOR3, Austria, 11.800  
 VE3AO, Toronto, Canada.  
 VE9BJ, Canada, 6.090. Irreg.  
 VE9CA, Canada, 6.030.  
 VE9CS, Canada, 6.074. 8-10 p.m.  
 VE9DR, Canada, 6.005. 7:30 a.m. to Midnight; Sun., noon to 11:15 p.m.  
 VE9GW, Canada, 6.092. 3 p.m.-midnight  
 VE9HX, Canada, 6.110. 5-11 p.m., daily  
 VE9JR, Canada, 11.720. Irreg., approx. 9:30 a.m.-10:30 p.m.  
 VK2ME, Australia, 10.520.  
 9.585. Sun., 1 to 3 a.m.; 5 to 11 a.m.  
 VK3ME, Australia, 9.503. Wed., 5-6:30 a.m.; Sat., 5-7 a.m.  
 VWZ, India, 17.533  
 \*WNC, U. S. A., 15.055  
 W1XAL, U. S. A., 15.242. Sunday, 10 a.m.-1 p.m.  
 11.780. Sat., 5:30-11 p.m.; Sun., 6:30-8:30 p.m.  
 W2XAD, USA, 15.320. Sun., Mon., Wed., Fri., 4-5 p.m.  
 W2XAF, USA, 9.530. 7:45 to 11 p.m.  
 W2XE, U. S. A., 15.258. 11 a.m. to 1 p.m.  
 11.823. 3 to 5 p.m.  
 6.116. 6 to 11 p.m.  
 W3XAL, U. S. A., 17.772. 9 a.m.-3 p.m., except Sat.  
 6.096. 3 p.m. to midnight, Saturday  
 W3XAU, USA, 9.585. Noon to 6 p.m.  
 6.057. 8 p.m. to 1 a.m.  
 W3XL, U. S. A., 6.421. Irregular  
 W8XK, U. S. A., 21.451. 7 a.m. to 2 p.m.  
 15.204. 10 a.m. to 4:15 p.m.  
 11.870. 4:30-10 p.m.  
 6.140. 4:30 p.m. to 12:30 a.m.  
 W9XAA, U. S. A., 6.076. 3 to 6 p.m.  
 W9XF, U. S. A., 6.425  
 W9XF, U. S. A., 6.100. Silent Sat.; Sun, 1-2:30 p.m.; 4:30-7 p.m.; 9 p.m. to 2 a.m.; other days, 4:30-8 p.m.; 9:30 p.m. to 2 a.m.  
 XAM, Mexico, 11.187  
 XDS, Mexico, 11.760  
 XETE, Mexico, 9.600. 2:30-5 p.m.; 6:30 p.m. to midnight  
 \*YNA, Nicaragua, 14.480. Phones Hialeah.  
 \*YVQ, Venezuela, 13.337. Phones Hialeah  
 \*YXR, Venezuela, 18.296 and 9.168  
 YV1BC, Venezuela, 6.112. 5:15 to 10 p.m.  
 YV2AM, Venezuela, 7.138. Sun., 8-10 a.m.  
 YV3BC, Venezuela, 9.510. 9:30 to 10 p.m.  
 6.160. 10:30 a.m. to 1 p.m. and 4:30-9:30 p.m.; Sun., 8:30 a.m. to noon and 3-8:30 p.m.  
 \*ZFA, Bermuda, 5.045  
 \*ZFB, Bermuda, 10.060  
 ZFS, Bahamas, 4.513.  
 ZGE, Malaya, 5.996. Tues., Fri., 6:30-8:30 a.m. and Sun., 7-9 a.m.



14.830	20.21	WKU, Rocky Point, N. Y., Exp.	21.260	14.10	WBU, Rocky Point, N. Y., Exp.
14.980	20.01	KAY, Manila, P. I., phone	21.300	14.07	WQW, Rocky Point, N. Y., Exp.
15.040	19.93	WQG, Rocky Point, N. Y., Exp.	21.410	14.00	WKK, Lawrenceville, N. J., phone
15.055	19.91	WNC, Hialeah, Fla., phone	21.451	13.93	W8XK, Pittsburg, Pa. (Saxenberg)
15.204	19.72	W8XK, Pittsburg, Pa. (Saxenberg)	21.575	13.89	KFY, Forward Base, Little America
15.242	19.67	WIXAL, Boston, Mass.			KFZ, Main Base, Little America
15.258	19.65	W2XE, New York, N. Y. (Wayne, N. J.)	21.600	13.88	KFY, Forward Base, Little America
15.320	19.57	W2XAD, Schenectady, N. Y.			KFZ, Main Base, Little America
15.410	19.46	KWO, Dixon, Calif., phone	21.625	13.86	KFY, Forward Base, Little America
15.445	19.41	WKW, Rocky Point, N. Y., Exp.			KFZ, Main Base, Little America
15.970	18.77	WKO, Rocky Point, N. Y., Exp.	35.200	8.52	High frequency inter-island phones of the
16.015	18.72	WQR, Rocky Point, N. Y., Exp.	to		Mutual Telephone Co., Hawaii
16.030	18.71	KKP, Kahuku, Hawaii, phone	54.000	5.55	Call letters as follows:
16.260	18.44	WLK, Lawrenceville, N. J., phone			Munawahua, Island of Oahu, KGXA-B-C-D-E-F-G
17.120	17.51	WOO, Ocean Gate, N. J., Ship phone			Ulupalakua, Island of Maui, KGXH-I-J
17.600	17.04	KFY, Forward Base, Little America			Waikii, Island of Hawaii, KGXK-L-M
		KFZ, Main Base, Little America			Kaunakaki, Island of Molokai, KGXN
17.620	17.01	KFY, Forward Base, Little America			Kalepa, Island of Kauai, KGXO
		KFZ, Main Base, Little America			Lanai Island, KGXP
17.772	16.87	W3XAL, New York, N. Y. (Boundbrook N. J.)			<b>CANADA</b>
17.860	16.78	WQC, Rocky Point, N. Y., Exp.	Megs. Meters		
17.880	16.76	WQJ, Rocky Point, N. Y., Exp.	1.710	175.30	CFN, Grande Prairie, Alta., Police
17.900	16.75	WLL, Rocky Point, N. Y., Exp.			CFO, Lethbridge, Alta.
17.920	16.73	WQF, Rocky Point, N. Y., Exp.			CFU, Peace River, Alta.
17.940	16.71	WQB, Rocky Point, N. Y., Exp.			CGJ, Edmonton, Alta.
18.020	16.64	KQJ, Bolinas, Calif., Exp.			UYR, Montreal, P. Q.
18.350	16.34	WLA, Lawrenceville, N. J., phone			UZE, Victoria, B. C.
18.860	15.80	WKM, Rocky Point, N. Y., Exp.			UZF, Vancouver, B. C.
18.880	15.88	WQH, Rocky Point, N. Y., Exp.			UZG, Prince Rupert, B. C.
18.900	15.86	WDS, Rocky Point, N. Y., Exp.			UZH, Kamloops, B. C.
18.920	15.84	WQE, Rocky Point, N. Y., Exp.			UZI, Nelson, B. C.
18.940	15.83	WTF, Rocky Point, N. Y., Exp.			UZM, Prince George, B. C.
18.960	15.81	WQD, Rocky Point, N. Y., Exp.			UZN, Cranbrook, B. C.
18.980	15.79	WFX, Rocky Point, N. Y., Exp.	2.414	124.17	CFN, Grande Prairie, Alta., Police
19.220	15.60	WKF, Lawrenceville, N. J., phone			CFO, Lethbridge, Alta.
19.816	15.14	WKN, Lawrenceville, N. J., phone			CFU, Peace River, Alta.
19.980	15.01	KAX, Manila, P. I., phone			CGJ, Edmonton, Alta.
20.100	14.91	WQY, Rocky Point, N. Y., Exp.			CGS, Calgary, Alta.
20.180	14.85	WQX, Rocky Point, N. Y., Exp.			CJW, St. John, N. B.
20.260	14.79	WQQ, Rocky Point, N. Y., Exp.			CKT, Penticton, B. C.
21.054	14.24	WKA, Lawrenceville, N. J., phone			UYW, Winnipeg, Man.
21.060	14.24	KWN, Dixon, Calif., phone			UZE, Victoria, B. C.
21.220	14.13	WQA, Rocky Point, N. Y., Exp.			UZF, Vancouver, B. C.
21.240	14.12	WQJ, Rocky Point, N. Y., Exp.			UZG, Prince Rupert, B. C.
					UZH, Kamloops, B. C.

## POSTSCRIPTS from Our Readers

"I get radio magazines from all parts of the world but I can truly say that I have never seen one that can compare with RADEX in any respect. The information contained between its covers is exactly what a radio magazine should give to its readers."

S. H. Crowe, 157 Catharine St., N., Hamilton, Ont.

"Want to congratulate you on the November RADEX. It's the best magazine I have seen for any radio fan."

D. D. Campbell, Station KUOA, Fayetteville, Ark.

"I have been a reader of RADEX since 1930. I think it is one of the best of radio magazines. It is edited in a way that it can be easily understood by the non-technical radio fan such as myself."

Hubert H. Davis, 214 N. Green Street, Henderson, Ky.

"I am looking forward to the next issue and will certainly count the days till its arrival."

Robert M. Pybus, 4 Highfield Rd., Chorlton-cum-Hardy, Manchester, England.

"We have always considered your publica-

tion as filling one field of the radio industry and will cooperate with you to the best of our ability."

J. E. Roberts, Engineer in Charge, Station CRCS, Chicoutimi, Que.

"I have been a reader of your excellent radio magazine for the past three years and enjoy it very much. I know of no other that contains as much *usable* information."

Everett R. Clark, Box 313, Goodwell, Okla.

"I think RADEX is the best magazine on the market and I have a standing order for it at the newsstand. Why don't you issue, it at least twice a month or possibly oftener?"

Harold Gasper, RFD 7, St. Joseph, Mo.

"I have just discovered your valuable publication and, believe me, it fills a long-felt yearning on my part for a radio magazine that a layman is able to understand."

Charles Aloysius Steele, 3119 Seventh St., Port Arthur, Tex.

"As an old-timer who has subscribed to fourteen radio publications, I declare that your magazine is the one I would take if I were, somehow, restricted to only one."

Dr. Donald M. Gildersleeve, 2518 Webb Ave., Bronx, New York.

				4.942	62.70	CZA, Drummondville, P. Q., Ship phone
				6.005	49.93	VE9DR, Montreal, P. Q.
				6.015	49.85	VE9CX, Wolfville, N. S.
2.481	120.80	CGK, Ft. Chipewyan, Alta., Airway		6.030	49.72	VE9CA, Calgary, Alta.
		UYM, Ft. Rae, N. W. T., Airway		6.070	49.39	VE9CS, Vancouver, B. C.
		UYN, Ft. McMurray, Alta., Airway		6.090	49.23	VE9BJ, St. John, N. B.
		UYO, Echo Bay, N. W. T., Airway		6.092	49.22	VE9GW, Toronto, Ont. (Bowmanville)
2.735	109.62	VE9CI, London, Ont., Broadcast		6.110	49.07	VE9HX, Halifax, N. S.
3.068	97.70	CJU, Winnipeg, Man., Airway		6.150	48.75	VE9CL, Winnipeg, Man.
3.331	90.00	VE9AA, Montreal, P. Q., Exp.		6.335	47.35	VE9AP, Drummondville, P. Q., Exp.
3.450	86.90	CGK, Ft. Chipewyan, Alta., Airway		6.420	46.70	CFN, Grande Prairie, Alta., Police
		CJU, Winnipeg, Man., Airway				CFO, Lethbridge, Alta.
		UYM, Ft. Rae, N. W. T., Airway				CFU, Peace River, Alta.
		UYN, Ft. McMurray, Alta., Airway				CGJ, Edmonton, Alta.
		UYO, Echo Bay, N. W. T., Airway				CGS, Calgary, Alta.
3.458	86.70	CFN, Grande Prairie, Alta., Police				CKT, Penticton, B. C.
		CFO, Lethbridge, Alta.				UZE, Victoria, B. C.
		CFU, Peace River, Alta.				UZF, Vancouver, B. C.
		CGJ, Edmonton, Alta.				UZG, Prince Rupert, B. C.
		CGS, Calgary, Alta.				UZH, Kamloops, B. C.
		CKT, Penticton, B. C.				UZI, Nelson, B. C.
		UZE, Victoria, B. C.				UZN, Prince George, B. C.
		UZF, Vancouver, B. C.				UZN, Cranbrook, B. C.
		UZG, Prince Rupert, B. C.	6.840	43.82		CFA, Drummondville, P. Q., phone
		UZH, Kamloops, B. C.	7.456	40.21		CKT, Penticton, B. C., Police
		UZI, Nelson, B. C.				UZE, Victoria, B. C.
		UZN, Prince George, B. C.				UZF, Vancouver, B. C.
		UZN, Cranbrook, B. C.				UZG, Prince Rupert, B. C.
4.751	63.10	CGK, Ft. Chipewyan, Alta., Airway				UZH, Kamloops, B. C.
		UYM, Ft. Rae, N. W. T., Airway				UZI, Nelson, B. C.
		UYN, Ft. McMurray, Alta., Airway				UZN, Prince George, B. C.
		UYO, Echo Bay, N. W. T., Airway				UZN, Cranbrook, B. C.
4.772	62.82	CFN, Grande Prairie, Alta., Police	8.353	35.89		CGK, Ft. Chipewyan, Alta., Airway
		CFO, Lethbridge, Alta.				UYM, Ft. Rae, N. W. T., Airway
		CFU, Peace River, Alta.				UYN, Ft. McMurray, Alta., Airway
		CGJ, Edmonton, Alta.				UYO, Echo Bay, N. W. T., Airway
		CGS, Calgary, Alta.	9.340	32.10		CGA, Drummondville, P. Q., phone
		CKT, Penticton, B. C.	11.720	25.58		VE9JR, Winnipeg, Man. (Middlechurch)
		UZE, Victoria, B. C.	12.951	23.15		CGK, Ft. Chipewyan, Alta., Airway
		UZF, Vancouver, B. C.				UYM, Ft. Rae, N. W. T., Airway
		UZG, Prince Rupert, B. C.				UYN, Ft. McMurray, Alta., Airway
		UZH, Kamloops, B. C.				UYO, Echo Bay, N. W. T., Airway
		UZI, Nelson, B. C.	13.296	22.55		CGA, Drummondville, P. Q., phone
		UZN, Prince George, B. C.	13.740	21.82		CGA, Drummondville, P. Q., phone
		UZN, Cranbrook, B. C.	17.330	17.30		CGS, Calgary, Alta., Police

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# February DX Calendar

(Continued from second cover)

## FRIDAY MORNINGS

Feb. 2

2:30-4:00—CHWK, Chilliwack, 780 (.1)

Feb. 23

4:00-5:00—KPOF, Denver, 880 (.5)

Feb. 2-9-16-23

12:00-1:00—KOIL, Council Bluffs, 1260 (1)

12:00-2:00—CFCN, Calgary, 1030 (10)

12:00-6:00—WJAX, \*Jacksonville, 900 (1)

1:00-1:30—WRAM, Wilmington, 1370 (1)

1:00-2:00—WBBX, New Orleans, 1200 (.1)

\*Prizes to most distant listeners.

## SATURDAY MORNINGS

Feb. 3

4:00-5:00—WIS, Columbia, 1010 (.5)

4:15-4:45—WGNV, Chester, 1210 (.1)

Feb. 3-17

2:00-3:00—XES, Tampico, 1020 (.5)

Feb. 10

2:30-4:00—10-BQ, Brantford, 1200 (.005)

3:00-4:00—WJEJ, Hagerstown, 1210 (.1)

3:15-4:15—WMBQ, Brooklyn, 1500 (1)

4:30-6:00—10-BP, Wingham, 1200 (.015)

Feb. 10-17-24

1:00-3:00—CMCW, Havana, 965 (.15)

2:00-3:00—WGLC, Hudson Falls, 1370 (.1)

Feb. 17

2:00-3:00—WHA, Madison, 940 (1)

2:00-3:00—WOQ, Kansas City, 1300 (1)

3:00-9:00—KP1C, Pasadena, 1210 (.05)

Feb. 24

1:00-2:00—CMHJ, Cienfuegos, 1125 (.06)

4:00-5:00—CFQC, Saskatoon, 1250 (.5)

Feb. 3-10-17-24

1:00-2:00—WGNV, Chester, 1210 (1)

2:00-3:00—CMBS, Havana, 765 (2)

4:00-5:00—XEAO, Mexicali, 560 (1)

# THE MONTH'S CHANGES

## FREQUENCIES

505	GMW	Havana, Cuba, from 590
600	CJOR	Vancouver, B. C., from 1210
765	CMBS	Havana, Cuba, from 780
775	CMCQ	Havana, Cuba, from 780
800	TIGP	San Jose, C. R., from 666
835	CMC	Havana, Cuba, from 840
873	CMCF	Havana, Cuba, from 890
875	CMX	Havana, Cuba, from 890
910	CMJF	Camaguey, Cuba, from 930
915	CMCD	Havana, Cuba, from 925
945.5	CMHD	Caibarien, Cuba, from 950
950	VOGY	St. John's, Nfld., from 1400
971.5	CMGF	Matanzas, Cuba, from 977
985	XEFE	Nuevo Laredo, Tams., from 1000
1005	CMBZ	Havana, Cuba, from 1010
1052	CMBG	Havana, Cuba, from 1070
1052	CMCB	Havana, Cuba, from 1070
1120	CFTP	Edmonton, Alta, from 580
1170	CMJE	Camaguey, Cuba, from 1175
1180	CMCJ	Havana, Cuba, from 1185
1200	CIAT	Trail, B. C., from 1155
1210	CKBI	Prince Albert, Sask., from 1200
1370	WHET	Dothan, Ala., from 1210
1450	CFCT	Victoria, B. C., from 1430
1500	WKBB	E. Dubuque, Ill., from 1310
1510	CFRC	Kingstern, Ont., from 915
1510	CKCR	Kitchener, Ont., from 645

## POWER

540	CJRM	Moose Jaw, Sask., 500 to 1000
550	WOBV	Charleston, W. Va., 500 to 750
580	WTAG	Worcester, Mass., 500 to 750
600	CFCO	Chatham, Ont., 100 to 50
690	CJGJ	Calgary, Alta., 500 to 100
730	CJCA	Edmonton, Alta., 500 to 100
780	CKPR	Fort William, Ont., 100 to 50
930	CFAC	Calgary, Alta., 500 to 100

1100	CRCV	Vancouver, B. C., 500 to 1000
1120	CHGS	Summerside, P. E. I., 100 to 50
1120	CKOC	Hamilton, Ont., 1000 to 500
1200	CJAT	Trail, B. C., 25 to 50
1200	10-BQ	Brantford, Ont., 5 to 15
1210	CKBI	Prince Albert, Sask., 25 to 100
1210	CKMC	Cobalt, Ont., 100 to 50
1210	CKOV	Kelowna, B. C., 100 to 50
1310	CHCK	Charlottetown, P. E. I., 100 to 50

## NEW

1290	.....	San Juan, P. R.
1310	CJKL	Kirkland Lake, Ont.
1310	CJLS	Yarmouth, N. S.
1370	CHPR	St. John, N. B.
1390	CJRC	Middlechurch, Man.
1420	CKGB	Timmins, Ont.
1500	.....	Chelsea, Mass.
1500	.....	Hot Springs, Ark.

## CALLS

560	KTWO	Springfield, Mo., formerly KGIZ
580	CFTP	Edmonton, Alta, formerly CHMA
1200	CJAT	Trail, B. C., formerly 10-AT
1210	CKBI	Prince Albert, Sask., formerly 10-BI
1250	WNEW	Newark, N. J., formerly WAAM-WODA

## LOCATION

930	CKPC	Brantford, Ont., from Preston, Ont.
1200	KBTM	Jonesboro, Ark., from Paragould, Ark.
1370	WHET	Dothan, Ala., from Troy, Ala.

## PERMIT TO CHANGE LOCATION

1370	WMBR	Tampa, Fla., to Jacksonville, Fla.
1420	WENG	Americus, Ga., to Albany, Ga.

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