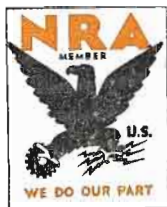


THE FEBRUARY 1934

RADIO INDEX

THE ALL-WAVE RADIO MAGAZINE



25^c

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 parenthesis 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—XGOA, 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, Vermillion, 890 (.5)
3:00-4:00—WOS, Jefferson City, 630 (.5)
3:00-4:30—KFOX, 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—CMGF, 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—KGNO, Dodge City, 1340 (.25)
3:00-5:00—KMJ, Fresno, 580 (.5)
3:00-7:00—KGR, Butte, 1360 (.5)

Feb. 25

- 12:00-4:00—KFSG, Los Angeles, 1120 (.5)
1:00-2:00—XEFW, 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)
XETW, Mexico City, 830 (.5)
12:00-1:30—WMBC, Detroit, 1420 (1)
12:00-3:00—CMCD, Havana, 915 (.5)
WGES, Chicago, 1360 (1)
1:00-2:00—WCCO, Minneapolis, 810 (.50)
WDOD, Chattanooga, 1280 (1)
1:00-2:30—XEAB, Tamaulipas, 1450 (.0075)
1:00-4:00—CMBB, Havana, 965 (.25)
2:00-3:00—WMMN, Fairmont, 890 (.25)
2:00-5:00—KPJM, 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—XGOA, 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—HIH, 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—KPSG, 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—KIFYR, Bismarck, 550 (1)
4:30-5:00—WCAL, Northfield, 1250 (1)

Feb. 14

- 1:00-2:00—WIBG, Glenside, 970 (1)

Feb. 21

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

Feb. 28

- 2:00-4:00—WNRA, Muscote 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—HIH, 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)

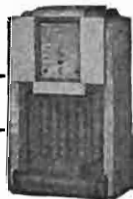
A Radio **GUARANTEED**
to give **WORLD-
WIDE**



RECEPTION *Every Day!*

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

The
**SCOTT
ALL-WAVE
Deluxe**
15 to 550 METERS



CONSOLES

Specially designed cabinets
—correct in furniture beauty
and in scientific acoustic
quality—are provided.

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President.

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4450 Ravenswood Ave., Dept. RX24, Chicago, Ill.

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 partic-

ular 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.

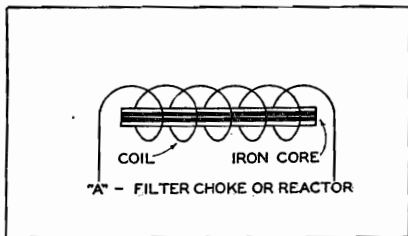
The “Why” of Tuning

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*.

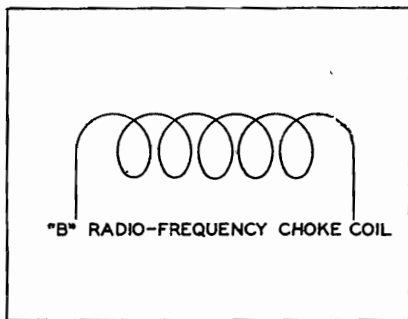
Impeding All But One Frequency

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-

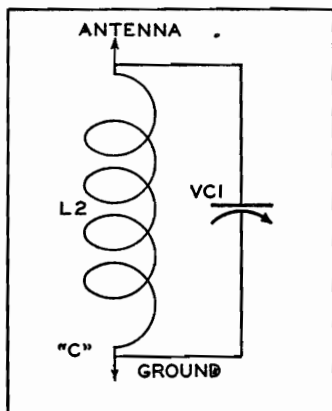


ing direct current will flow with a steady value. But we will hear more about chokes and filters when we discuss the power units of radio sets.

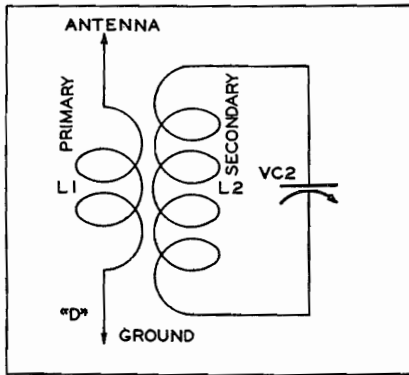
The Primary Circuit

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

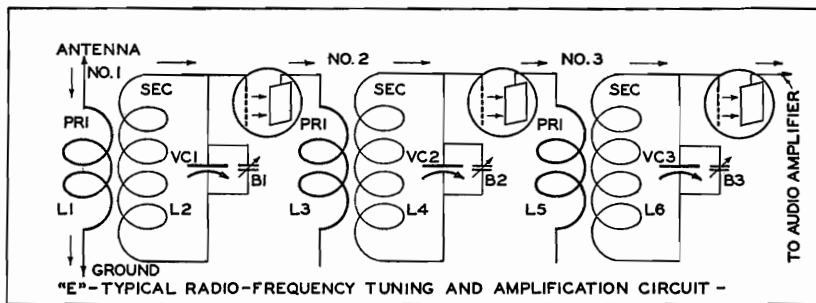
In the diagram "D," which now makes use of the radio circuit symbols shown in Part Three and Part Four, we see the primary coil L1. It permits most of the radio waves to pass down to earth because its reactance is very low; it is an *untuned* circuit. The currents passing through L1 will induce stronger 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"

WENDELL 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, zylphone 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 WEAJ, 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 Pavlova. 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 Coconut 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.

Confiction 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 announc-



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 pre-empted, "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,

Argentine, 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 "Gyping 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 bluessinger, 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.

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 687, 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 Euterpestraat 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, Laurencio 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 mgs. 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 mgs.), 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 Française?

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 mgs.)

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

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 mgs.) 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 stowaways 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 YV1BC, 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. H1A, 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: Commissariat 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

LAST 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.

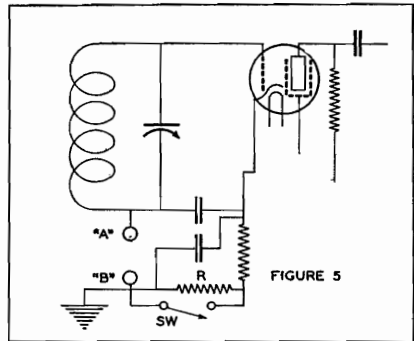
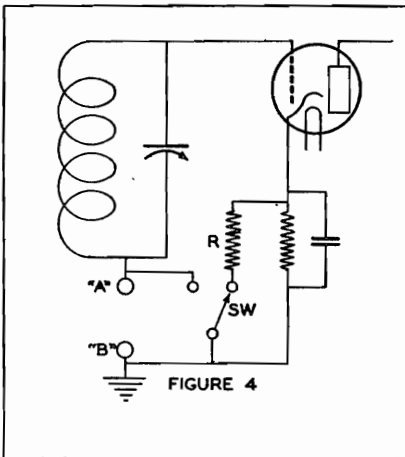
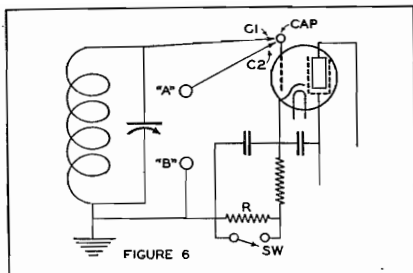


Figure 5 shows a somewhat similar method, except the switch (SW) merely shorts the resistor R. It is used when the detector grid is fed from an intermediate transformer stage (superheterodyne). When SW is closed, R is shorted, and the detector becomes an audio amplifier.

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, WEA, 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, CHR C, 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, HI1A, 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 Melchor 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. Barga, 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. Oppel, 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 YV1BC 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. Map-pin, "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 Austrians—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 Broawway, 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 Westward 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," prefers 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

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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 superheterodyne 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 Atwater-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^o

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-

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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

Mega.	Meters				
1.534	195.45	KGHO, Des Moines, Iowa, State police	2.416	124.09	KGFB, 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	WKEY, 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			WMIJ, Buffalo, N. Y.
		KGPF, 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			KGZI, Phoenix, Ariz.
		WCF, New York, N. Y., police			WFDI, Columbus, Ohio
		WRDU, Brooklyn, N. Y., police			WPDN, Dayton, Ohio
1.658	180.83	KSW, Berkeley, Calif., police			WPFH, Highland Park, Ill.
1.674	179.10	..... Harrisburg, Pa., State police			WPFK, Hackensack, N. J.
1.712	175.13	KGJX, Pasadena, Calif., police			WPGI, Portsmouth, Ohio
		KGPC, St. Louis, Mo.			..... Little Rock, Ark.
		KGFI, Beaumont, Texas.			..... Long Beach, Calif.
		KGFL, Los Angeles, Calif.			..... Minneapolis, Minn.
		KGFR, Fort Worth, Texas.	2.442	122.77	..... Santa Ana, Calif.
		KGZB, Houston, Texas			KGPP, Portland, Ore., police
		KGZI, Wichita Falls, Texas			KGPX, Denver, Colo.
		KGZL, Shreveport, La.			KGZH, Klamath Falls, Ore.
		KGZQ, Waco, Texas			KGZR, Salem, Ore.
		KVP, Dallas, Texas			WMDZ, Indianapolis, Ind.
		WKDU, Cincinnati, Ohio			WPDE, Louisville, Ky.
		WPDB, Chicago, Ill.			WPDE, Flint, Mich.
		WPDC, Chicago, Ill.			WPDI, Richmond, Ind.
		WPDD, Chicago, Ill.			WPDJ, Lansing, Mich.
		WPDU, Pittsburgh, Pa.			WPEB, Grand Rapids, Mich.
		WPED, Arlington, Mass.			WPEB, Saginaw, Mich.
		WPEH, Somerville, Mass.			WPEB, Muskegon, Mich.
		WPEI, E. Providence, R. I.			WPEE, Reading, Pa.
		WPEJ, Brookline, Mass.			WPEF, Jacksonville, Fla.
		WPEK, Lexington, Ky.			WPEF, Lakeland, Fla.
		WPEL, Newton, Mass.			WPEF, Town of Palm Beach, Fla.
		WPEM, Hammond, Ind.			WPEF, Miami, Fla.
		WPEO, Fairhaven, Mass.			WPGA, Bay City, Mich.
		..... Providence, R. I.	2.450	122.40	..... Binghamton, N. Y.
2.414	124.20	..... San Bernardino, Calif.			KGPH, Oklahoma City, Okla., police
		KGPA, Seattle, Wash., police			KGPO, Tulsa, Okla.
		KGPE, Bakersfield, Calif.			KGPO, Honolulu, Hawaii
		KGZA, Fresno, Calif.			KGPP, Wichita, Kans.
		KGZM, El Paso, Texas			KGZF, Chanute, Kans.
		KGZN, Tacoma, Wash.			KGZF, Coffeyville, Kans.
		KGZO, Santa Barbara, Calif.			WPDK, 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.			KCHS, Spokane, Wash., police
		WPGA, Tulare, Calif.			KGZW, Lubbock, Texas
		WPDJ, Passaic, N. J.			WPDG, Youngstown, Ohio
		WPDK, Detroit, Mich.			WPDN, Auburn, N. Y.
		WPDY, Atlanta, Ga.			WPDN, Akron, Ohio
		WPFH, Baltimore, Md.			WPDN, Rochester, N. Y.
		WPFJ, Columbia, Ga.			WPDV, Charlotte, N. C.
		WPFM, Birmingham, Ala.			WPEA, Syracuse, N. Y.
		WPFN, Clarksburg, W. Va.			WPEB, Asheville, N. C.
		WPFY, Yonkers, N. Y.			WPEE, 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, Nebr.
		..... 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

THE "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 give 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 "Halo, 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.

Langenburg (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. Occasionally 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.

Moravska-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 superhet."

"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, 1818 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 Sparton 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, WGNV, 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 WEAf, 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."

The LONG WAVE STATIONS

The Channels from 18 kcs. to 536 kcs.

Frequencies are shown in Kilocycles and wavelengths in meters. The symbols in the fourth column represent the type of service, as follows:

A. Airways
AE, airway experimental
AW, airway weather reports
B, Broadcast
Exp. Experimental
HP, Harbor police
IP, Inter-Island phone
P, Police
tAt, trans-Atlantic Phone

Kcs.	Meters	Call	Type	Location	280.00	1,070.78			
18.00	16,656.97	KIE	....	Kahuku, Hawaii	266.00	1,127.14	KCAI	AW.	Waynoka, Okla.
18.22	16,455.54	WQK	Exp.	Rocky Point, N. Y.			KCX	AW.	Medford, Ore.
18.60	16,118.27	KGI	....	Kahuku, Hawaii			WHZ	AW.	Atlanta, Ga.
45 to 75	6,662.67 to 3,997.60	W2XA	Exp.	Rocky Point, N. Y.	269.00	1,114.57	WSX	AW.	Boston, Mass.
50 to 70	5,996.40 to 4,283.14	W1XR	Exp. tAt	Houlton, Me.			WWAB	AW.	Buffalo, N. Y.
50 to 75	5,996.40 to 3,997.60	W1XQ	Exp. tAt	Bradley, Me.			RW58	B.	Moscow (Popoff), USSR
66.5 to 69.5	4,508.57 to 4,313.95	WOH	tAt	Bradley, Me.	271.50	1,104.29	RV10	B.	Minsk Kolodistchi, USSR.
155.00	1,934.32	.....	B.	Kaunas, Lithuania	272.00	1,102.28	WWX	AW.	Washington, D. C.
160.00	1,873.87	.....	B.	Huizen, Holland	277.00	1,082.38	W2XAH	Exp.	Oslo, Norway
167.00	1,795.32	.....	B.	Holland	278.00	1,078.48	W3XY	Exp.	S. Plainfield, N. J.
170.00	1,763.04	WQM	B.	Lahé, Finland	280.00	1,070.78	W3XY	Exp.	Mendham, N. J.
174.00	1,723.10	.....	B.	Rocky Point, N. Y.			W8XAA	AE.	Mendham, N. J.
183.50	1,633.89	.....	B.	Radio-Paris, France	284.00	1,055.70	.....	B.	Cleveland, Ohio
188.00	1,594.78	RW14	B.	Deutschlandsender, Germany			.....	B.	Scheveningen, Holland
190.00	1,578.00	WBA	P.	Germany	290.00	1,033.86	KCAC	AW.	Tiflis, USSR.
193.00	1,553.47	WBR	P.	Butler, Pa.			KCT	AW.	Butte, Mont.
195.00	1,537.53	.....	B.	Wyoming, Pa.			KCY	AW.	Los Angeles, Calif.
202.50	1,450.59	RW1	B.	W. Reading, Pa.	296.00	1,012.90	KVM	AW.	Portland, Ore.
207.50	1,444.91	.....	B.	Davenport National, England			WWQ	AW.	North Platte, Neb.
212.50	1,410.91	.....	B.	Ankara, Turkey	299.00	1,000.00	KGD	AW.	Bellefonte, Pa.
217.50	1,378.48	RW76	B.	Moscow (Trades Union), USSR.			KCQ	AW.	St. Louis, Mo.
222.50	1,347.50	.....	B.	Moscow (Trades Union), USSR.			KGD	AW.	Salt Lake City, Utah
230.00	1,303.56	.....	B.	Moscow (Trades Union), USSR.	296.00	1,012.90	RV9	B.	Kiev, USSR.
235.00	1,275.83	.....	B.	Kasbah, Tunis			KCAA	AW.	Tulsa, Okla.
238.00	1,259.75	RW8	B.	Baku, USSR.	300.00	999.40	KCAF	AW.	Albuquerque, N. M.
240.00	1,249.25	RW43	B.	Baku, USSR.	300.00	999.40	RW53	B.	Leningrad, USSR.
242.00	1,238.92	.....	B.	Vienna Exp., Austria	302.00	982.78	KCAH	AW.	Kingman, Ariz.
248.00	1,209.35	WFT	AW.	Boden, Sweden	308.00	973.44	KCR	AW.	Boise, Idaho
250.00	1,199.28	.....	B.	Istanbul, Turkey	309.00	969.00	.....	B.	Oslo, Denmark
252.00	1,189.76	.....	B.	Reykjavik, Iceland	310.00	967.16	RW60	B.	Alma Ata, USSR.
254.00	1,180.39	KLK	AW.	Luxembourg	314.00	954.84	KJF	AW.	Omaha, Neb.
		WSG	AW.	Reno, Nevada			KOJ	AW.	Elko, Nev.
		WWAP	AW.	La Crosse, Wis.	320.00	936.93	KCS	AW.	Pasco, Wash.
		WNR	AW.	Pittsburg, Pa.			WRW	AW.	Greensboro, N. C.
		.....	B.	Richmond, Va.	321.00	934.01	WWAH	AW.	Albany, N. Y.
		.....	B.	Kalundborg, Denmark			WWAR	AW.	Jackson, Mich.
		.....	B.	Monte Ceneri, Switzerland	326.00	919.69	RW4	B.	Kharkov, USSR.
		.....	B.	Monte Ceneri, Switzerland			KIS	AW.	Iowa City, Iowa
		.....	B.	Monte Ceneri, Switzerland			KSG	AW.	Cheyenne, Wyo.
		.....	B.	Monte Ceneri, Switzerland			WWAU	AW.	Memphis, Tenn.
		.....	B.	Monte Ceneri, Switzerland			KCV	AW.	Oakland, Calif.
		.....	B.	Monte Ceneri, Switzerland			WEK	AW.	Wichita, Kans.
		.....	B.	Monte Ceneri, Switzerland			WWAS	AW.	Cincinnati, Ohio
		.....	B.	Monte Ceneri, Switzerland			WKDL	AW.	Miami, Fla.
		.....	B.	Monte Ceneri, Switzerland			RW19	B.	Achkhabad, USSR
		.....	B.	Monte Ceneri, Switzerland			KCAD	AW.	Idaho Falls, Idaho
		.....	B.	Monte Ceneri, Switzerland			WBP	AW.	Key West, Fla.
		.....	B.	Monte Ceneri, Switzerland			WWAC	AW.	Nashville, Tenn.
		.....	B.	Monte Ceneri, Switzerland			WUW	AW.	New Brunswick, N. J.
		.....	B.	Monte Ceneri, Switzerland			KCU	AW.	Fresno, Calif.
		.....	B.	Monte Ceneri, Switzerland			KCZ	AW.	Seattle, Wash.
		.....	B.	Monte Ceneri, Switzerland			KRC	AW.	Kansas City, Mo.
		.....	B.	Monte Ceneri, Switzerland			WVO	AW.	Cleveland, Ohio
		.....	B.	Monte Ceneri, Switzerland			KCAE	AW.	Winslow, Ariz.
		.....	B.	Monte Ceneri, Switzerland			KDA	AW.	Maywood, Ill.
		.....	B.	Monte Ceneri, Switzerland			KDN	AW.	Rock Springs, Wyo.
		.....	B.	Monte Ceneri, Switzerland			KKJ	AW.	Fort Worth, Texas
		.....	B.	Monte Ceneri, Switzerland			RV70	B.	Leningrad, USSR.
		.....	B.	Monte Ceneri, Switzerland			.....	B.	Budapest No. 2, Hungary
		.....	B.	Monte Ceneri, Switzerland			RV5	B.	Sverdlovsk, USSR
		.....	B.	Monte Ceneri, Switzerland			RV9	B.	Kiev, USSR.
		.....	B.	Monte Ceneri, Switzerland			WAEF	A.	Newark, N. J.
		.....	B.	Monte Ceneri, Switzerland			WHG	A.	Columbus, Ohio
		.....	B.	Monte Ceneri, Switzerland			WQDQ	A.	Dearborn, Mich.
		.....	B.	Monte Ceneri, Switzerland			RA8	B.	Bogorodsk, USSR.
		.....	B.	Monte Ceneri, Switzerland			WAEF	A.	Newark, N. J.
		.....	B.	Monte Ceneri, Switzerland			WHM	A.	Indianapolis, Ind.
		.....	B.	Monte Ceneri, Switzerland			.....	B.	Geneva, Switzerland

402.00	745.82	.....	B.	Ostersund, Sweden
406.00	738.47	KOG	A.	Honolulu, Hawaii
414.00	724.20	WAEF	A.	Newark, N. J.
		WCQ	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.	Lanai, 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.	Dneiropetrovsk, 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-Breisgau, Germany
530.00	565.69	.....	B.	Wlino, Poland
536.00	559.36	.....	B.	Augsburg, Germany
		.....	B.	Kaiserlautern, Germany
		.....	B.	Tampere, Finland

The Verification PROBLEM

OBVIOUSLY 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."

Radio vs Fishing

RADIO 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.*

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.

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."

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.

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 KGF1, Corpus Christi, Tex.
Thursday Morning, Feb. 15
3:00-4:00 WNEF, Binghamton, N. Y.
Friday Morning, Feb. 16
3:00-4:00 WWRL, 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, still in a predicting mood, picks Gertrude 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., Swissvale, 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 WKBW WOKO

R — Waldorf Astoria Orchestra
KDYL KFYR KOA KPO KPRC KSD
KSTP KTBS KTHS KVOO WAPI
WBEN WCAE WCSH WDAF WDAY
WEAF WECB WFAA WFLA WHO
WIBA WIOD WIS WJAR WJAX
WJDX WKY WMAQ WMC WQAI
WOC WRC WRVA WSAI WSB WSM
WSMB WSOB WTAG WWJ WWNC

B — U. S. Army Band
KOIL KSO KWCR KWK KYW WBAL
WBZ WBWA WCKY WENR WHAM
WJZ WMAL WREN WSYR

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

C — Bobby Benson; Sunny Jim
WAAB WABC WCAU WDRC WEAN
WFBL WGR WHEC WHK WLZB
WMAS WOKO WORC

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

C — Enoch Light and Orchestra
CKLW KLRA WAAB WADC WBIG
WBRC WCAO WCAU WDAE WDBO
WDOD WDRC WDSU WFBL WFEA
WGLC WGST WHEC WHP WICC
WKBN WKBW WLZB WMAS WMBG
WOKO WORC WQAM WSJS WSPD
WTAR WTOC

R — Irene Beasley, Songs
KGO KOA WAPI WBEN WCKY
WEAF WFBR WGY WHO WJDX
WMC WOC WSAI WSB WSM WSMB
WSOC 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
WEAF WFAA WFBR WGY WHO
WJDX WMAQ WMC WOC WSAI
WSB WSM WSMB WTAG WWJ

B — Lowell Thomas

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

C — Mildred Bailey, Songs

CFRB CKLW KLRA KLZ KMBC
KOMA KRLD KSCJ KTRH WAAB
WABC WBIG WBRW WCAE WCAO
WCAU WDAE WDBJ WDOD WDRC
WDSU WEAN WFBL WFPM WFEA
WGLC WGST WHAS WHEC WHP
WIBW WICZ WISN WJSV WKBW
WKBW WLZB 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 WDBO WDRC
WEAN WFBL WGR WHK WJAS
WJSV WKRC WNAC WOKO WQAM
WSPD WTOC WWVA

R — Mollie Show

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

B — Amos 'n' Andy

CRCT KDKA WBAL WBZ WBZA
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 Bachelor; Ray Knight

WEAF WGY WJAR WRC WTAG
WTAM WWJ

B — Baby Rose Marie, Songs

KDKA WBAL WBZ WBZA 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 WLZB WNAC WOKO
WORC

R — Lum and Abner

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

B — Potash and Perlmutter

KDKA KOIL KSO KWCR KWK
WBAL WBZ WBZA WCKY WENR
WHAM WJR WJZ WMAL WREN
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 WEAF
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 WBZA
WHAM WIBA WJDX WJZ WKY
WMAL WOAI WSMB WSYR

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

C — Happy Bakers

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

R — Soconyland Sketches—Drama

WBEN WCSH WEAFF WEEI WGY
WJAR WTAG WVIC

B — Sealed Power Side Show

KDKA KFYR KOIL KPRC KSO
KSTP KTBS KTHS KVOO KWCR
KWK WBAL WBZ WBZA WDAY
WEBC WFAA WGAR WHAM WIBA
WJDX WJR WJZ WKY WLS WMAL
WMC WOAI WBS WSM WSMB
WSYR WTMJ

E-8:15 p.m., C-7:15, M-6:15, P-5:15

C — Edwin E. Hill

CKLW KMBC KMOX WABC WADC
WCAO WCAU WCCO WDRC WEAN
WFBL WFPM 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 KFFY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KSL KVI KWG
WABC WADC WCAO WCAU WDRC
WEAN WFBL WFPM WGN WGR
WHAS WHK WJAS WJSV WKRC
WNAC WOKO WOWO WSPD

R — Voice of Firestone

CFRC CRCT KFYR KPRC KSD
KTBS KTHS KVOO WBEN WCSH
WDAF WDAY WEAF WECB WEEI
WFAA WFBR WFLA WGY WHO
WIOD WIS WJAR WJAX WJDX
WKY WLIT WLW WMAQ WMC
WOAI WOC WOW WRC WRVA WSB
WSM WSMB WSOB WTAG WTAM
WVIC WTMJ WWJ WWNC

B — Djer Kiss Recital

KDKA KOIL KSO KWCR KWK
WBAL WBZ WBZA WCKY WGAR
WJZ WLS WMAL WREN WSYR

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

B — Red Davis—Dramatic Sketch

KDKA WBAL WBZ WBZA 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
KFFY KFRC KGB KHJ KLA KLZ
KMBC KMJ KMOX KOH KOIN
KOL KOMA KSL KTRH KTA
KVI KWG WABC WADC WBBM
WBRW WBT WCAH WCAO WCAU
WCCO WDAE WDBJ WDBO WDRC

MONDAY—(Continued)

WDSU WEAN WFBL WFBM WGR
WGST WHAS WHEC WHK WICC
WISN WJAS WJSV WKRC WLAC
WLBZ WMBG WMT WNAC WOKO
WOWO WPG WQAM WRBC WRR
WSPD WTR WTCC

R — A. & P. Gypsies
KSD WBN WCAE WCSH WDAF
WEAF WEEI WGY WHO WJAR
WLIT WMAQ WOC WOW WRC
WSAI WTAG WTAM WTIC WWJ

B — Sinclair Minstrels
KDKA KFYR KOA KOIL KPRC
KSO KSTP KTBS KTHS KVOO
KWCR KWK WBAL WBZ WBAJ
WDAY WEBC WFAA WFLA WGAR
WHAM WIBA WIOD WIS WJAX
WJDX WJR WJZ WKY WLS 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 KDB KERN KFBK KFH
KFPY KPRC KGB KEJ KLZ KLK
KMBC KMJ 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 WICC WISN WJAS
WJSV WKBW WKRC WLAC WMBD
WMT WNAC WOKO WOWO WQAM
WREC WRR WSPD WTAR WTCC

E-9:30 p.m., C-8:30, M-7:30, P-6:30
C — Isham Jones; Gertrude Niesen
CFRB CKLW KDB KERN KFBK
KFPY KPRC KGB KEJ 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 WICC WJAS
WJSV WKBW WKRC WLAC WNAC
WOKO WOWO WREC WSPD WTAR
R — Del Monte Ship of Joy
KDYL KOA KPRC KSD KSTP
KTBS KVOO WBN WCAE WCSH
WEAF WECB WEEI WFAA WFRB
WFLA WGY WHO WIOD WIS
WJAR WJAX WKFB WKY WLIT
WMAQ WOAI WOC WOW WRC
WRVA WSAI WTAG WTAM WTMJ
WWJ WWNC

B — Jack Frost's Melody Moments
KDKA WBAL WENR 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 KPRC
KGB KEJ KLZ KMBC KMOX
KOIN KOL KSL KWG WAAB WABC
WADC WBBM WCAO WCAU WCCO
WDRC WEAN WFBL WFBM WGR
WHAS WHK WJAS WJSV WKRC
WOKO WOWO WSPD

R — Contented Program
CFRC CRCT KDYL KFI KFYR
KGO KGW KHQ KOA KOMO KPRC
KSTP WCHS WEAF WECB WEEI
WFRB WJAR WLIT WMC WOAI
WRC WSR WSM WTAG

B — Marcel Rodrigo, Baritone
KDKA KOIL KSO KWCR KWK
WBAL WBBZ WBZA WHAM WJZ
WMAL WSYR

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 WDBO WDOD WDRC
WEAN WFBL WFEA WGR WGST
WHAS WHEC WHP WISN WJAS
WJSV WKBN WLAC WLWB WLZB
WMAS WMT WODX WOKO WORC
WQAM WRCB WRCS WSPD WTCC

R — Kay-Seven, Drama
CRCT KSD WBN WCAE WCSH
WDAF WEAF WEEI WFRB WGY
WHO WJAR WLIT WLW WMAQ
WOC WOW WRC WTAG WTAM
WTIC WWJ

B — Henri Deering, Concert Pianist
KPYR KOIL KPRC KSO KSTP
KTBS KVOO KWCR WBAL WBZ
WBZA WCKY WECB WFAA WHAM
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 KPRC
KGB KEJ KLRA KLZ KMBC KMJ
KMOX KOIN KOL KOMA KSL
KVI KWG WBBM WBRC WCCO
WDSU WFBM WGST WHAS WLAC
WODX WREC

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C — Evan Evans, Baritone
CKLW KFH KLRA KLZ KMBC
KSCJ KTRH WAAB WABC WADC
WBRC WCAH WCAO WDAE WDBJ
WDBO WDOD WDRC WDSU WEAN
WFEA WGLC WGST WHAS WHEC
WHK WHP WIBW WICC WIP WISN
WJAS WJSV WKBN WKBW WLZB
WMAS WMBD WMBG WMT WODX
WOKO WORC WQAM WJSV WSPD
WTAR WTCC

B — Amos 'n' Andy
KDYL KFI KGO KGW KHQ KOA
KOIL KOMO KPRC KSTP KTHS
KWK WBAP 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 KTHS KVOR
WAAB WABC WACO WADC WBT
WCAH WCAO WCCO WDAE WDBJ
WDBO WDOD WDRC WEAN WFBM
WFEA WGST WHP WIBW WIP
WISN WJAS WJSV WKBN WKBW
WLAC WLWB WLZB WMAS WMBD
WMT WODX WORC WPG WQAM
WREC WSBT WJSV WSPD WTCC

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 KOMA KTRH KTHS KVOR
WABC WADC WBRC WCAO WCAU
WDBJ WDRC WDSU WEAN WFBL
WFBM WGST WHAS WHK WHP
WIBW WICC WISN WJSV WKBW
WLAC WLWB WMBD WMBG WMT
WNAC WOKO WORC WPG WQAM
WREC WSBT WJSV WTAR WTCC

R — Voice of Firestone
KDYL KFI KFSB KGHL KGIR KGO
KGV KGW KHQ KOA KOMO KTAR

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

TUESDAY

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 — Richard Himber and Orchestra
KOIL KSO KWCR WBAL WCKY
WENR WHAM WJR WJZ WMAL
WREN

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 — Mid-Week Hymn Sing
KDYL KFYR KGIR KPO KPRC
KTBS KTHS KVOO WDAY WEAF
WFAA WFI WGY WHO WIBA WIS
WJAX WJDX WMAQ WOAI WOC
WRC WSAI WTAG WWNC
B — Mary Small, Juvenile Singer
KSO KWCR WBAL WCKY WENR
WHAM WJZ WREN WSYR

C — Betty Barthel, Songs
CKLW KLRA WAAB WABC WADC
WBRC WCAO WCAU WCCO WDAE
WDBJ WDBO WDOD WDRC WDSU
WFBL WFEA WGLC WGR WGST
WHEC WHP WICC WKBN WLZB
WMAS WMBG WOKO WORC WQAM
WJSV WSPD WTAR

E-8:45 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 WEEI WFRB WFLA WGY
WHO WIOD WIS WJAR WJAX
WJDX WMAQ WOC WOW WRVA
WSAI WSM WSOC WTAG WWJ
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 KFSB KFYR
KGA KGHL KGIR KJR KOA KOIL
KPRC KTRH KTBS KTHS KVOO
KWCR KWK KYA WAPI WBAP
WBZ WBZA WCBZ WFLA WHAM
WIBA WIS WJDX WJZ WMAL
WOAI WPTF WREN WSM WWNC

E-7:30 p.m., C-6:30, M-5:30, P-4:30
C — Silver Dust Serenaders
WABC WCAU WDRN WFBL WGR
WHEC WJAS WMAS WOKO WORC
WWVA

E-7:45 p.m., C-6:45, M-5:45, P-4:45
B — Phil Harris and Orchestra
KDKA KFYR KOIL KPRC KSTP
KTBS KWCR KWK WBAP WBZ
WBZA 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 — Columbian; Freddie Rich
CKLW KFH KLRA KMBC KOMA
KSCJ KTRH WABC WADC WBBM
WBIG WBRC WCAH WCAO WCAU
WCCO WDAE WDBJ WDOD WDOD
WDRC WDSU WFBM WFLB WFBM
WFEA WGLC WGR WGST WHAS

TUESDAY—(Continued)

WHEC WHP WIBW WICC WISN
WJAS WKBN WLWB WMAS WMBG
WMT WNAC WOKO WORC WPG
WQAM WSBT WSJS WSPD WTAR
WVVA

R—Leo Reisman and Orchestra
WBEN WCAE WCSH WEAF WEEI
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 WDRG WEAN
WGR WHAS WHK WJAS WJSV
WKRC WNAC

R—Wayne King and Orchestra
KPRC KSD KSTP WBEN WCAE
WCSH WDAF WEAF WEEI WFAA
WFI WGY WHO WJAR WKBF
WKY WMAQ WMC WOA1 WOC
WOW WRC WSA1 WBS WSM WSBM
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-6:45, P-5:45
C—Fray and Braggiotti

CKLW KFH KLRA KOMA WABC
WADC WBIG WBRG WCAH WCAO
WCAU WCCO WDAE WDBJ WDDO
WDSU WEAN WFBL WFEA WGLC
WGR WGST WHEC WHK WIBW
WISN WJAS WKBN WLWB 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 WBEN WCAE WCSH WDAF
WEAF WEEI WFBR WFI WGY
WHO WJAR WKY WLW WMAQ
WMC WOA1 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 WLW
WREN 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
WBRG WCAH WCAO WCAU WCCO
WDAE WDBJ WDBO WDDO WDRG
WDSU WEAN WFBL WFEA WGLC
WGR WGST WHAS WHEC WHP
WIBW WICC WJAS WKBN WLWB
WMAS WMBG WMT WNAC WODX
WOKO WORC WPG WQAM WSBT
WSJS 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 WBRG WCAH WCAO
WCAU WCCO WDAE WDBJ WDBO
WDDO WDRG WDSU WEAN WFBL
WFEA WGLC WGST WHAS WHEC
WHP WIBW WICC WJAS WJSV
WKBN WKBW WLWB WMAS WMBD
WMT WNAC WODX WOKO WORC
WPG WQAM WSJS WSPD WTAR

R—Texaco Fire Chief Program

KDYL KFI KFSD KFYR KGH
KGR KGO KGW KHQ KOA KOMO
KPRC KSD KSTP KTR KTB
KVOO WBAP WBEN WCAE WCSH
WDAF WDAY WEAF WEEC WEEI
WFBR WFI WFLA WGY WHO WIBA
WIOD WIS WJAR WJAX WJDX
WKY WLW WMAQ WMC WOA1
WOW WRC WPTF WRC WRVA
WSB WSM WSMB WTAG WTAM
WTMJ WWJ WNNC

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
KFFY KFRG KGB KEJ KLRA KLZ
KMBC KMJ KMOX KOIN KOL
KOMA KRLD KSCJ KSL KTRH
KTSB KVI KWG WAAB WABC
WAGO WADC WBBM WBIG WBRG
WBT WCAH WCAO WCAU WCCO
WDAE WDBJ WDBO WDDO WDRG
WDSU WFBL WFBM WFEA WGST
WHAS WHEC WHK WHP WIBW
WICC WJAS WJSV WKBH WKBN
WKBW WJRC WLAC WLW WMAS
WMBD WMBG WMT WNA X WODX
WOKO WORC WOWO WPG WQAM
WREN WSJS WSPD WTAR WTOC

R—Cruise of Seth Parker

KDYL KFI KFSD KFYR KGH
KGR KGO KGW KHQ KOA KGO
KPRC KSD KSTP KTR KTB
WAPI WBAP WBEN WCSH WDAF
WDAY WEAF WEEC WEEI WFBR
WFI WFLA WGY WHO WIBA WIOD
WIS WJAR WJAX WJDX WKY
WLW WMAQ WMC WOA1 WOC
WOW WRC WRVA WSB WSM
WSMB WTAG WTAM WWJ WNNC

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 WBEN WEAF
WEEC WEEI 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 Sorenade
CKLW KFH KLRA KLZ KMBC
KSCJ KTRH WAAB WABC WADC
WBRG WCAH WCAO WDAE WDBJ
WDBO WDDO WDRG WDSU WEAN
WFBM WFEA WGLC WGST WHAS
WHEC WHP WIBW WICC WISN
WJAS WKBN WKBW WLWB WMAS
WMBD WMBG WMT WODX WOKO
WORG WQAM WSBT WSJS WSPD
WTAR WVVA

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
WBRG WCAH WCAO WCAU WCCO
WDAE WDBJ WDBO WDDO WDRG
WDSU WEAN WFBL WFBM WGLC
WGST WHAS WHEC WHK WHP

WIBW WISN WJAS WKBN WKBW
WLWB WMBD WMT WODX WOKO
WORC WPG WQAM WSBT WSJS
WSPD WTAR

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 KTSB
WABC WADC WBRG WCAO WDBJ
WDRG WDSU WEAN WFBL WFBM
WGST WHK WHP WIBW WISN
WJSV WKBW WLAC WLWB WMBD
WMBG WMT WNAC WOKO WORC
WQAM WREN WSBT WSJS WTAR
WTOC WVVA

B—Meyer Davis and Orchestra

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

E-11:45 p.m., C-10:45, M-9:45, P-8:45
C—Voice of Experience

KDB KERN KFBK KFFY KFRG
KGB KEJ 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-6:00 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-6:15 p.m., C-5:15, M-4:15, P-3:15
C—Bobby Benson, See Monday

E-8:30 p.m., C-7:30, M-6:30, P-3:30
R—Back of News

KFYR WEAF WFBR WGY WIBA
WIS WJAR WJDX WRC WSA1
WSB WSM WWJ WNNC

B—Irene Bessey, Contralto
KGO KOA KPRC KSO KTB KVOO
KWCR WBAL WBAP WCKY WENR
WGAR WJZ WOA1 WREN
C—Enoch Light, See Monday

E-8:45 p.m., C-7:45, M-6:45, P-3:45
B—Lewell Thomas, See Monday

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

R—Mollie Show, 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 Bletcher, See Monday
B—John Herlick, 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 Perimeter, See Mon.

E-7:45 p.m., C-6:45, M-5:45, P-4:45
C—Boake Carter, See Monday
R—Goldbergs, 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-5:30
C — Happy Bakers. See Monday

R — Jack Pearl
CFCE CRCT KSD WBen WCAE
WCKY WCSH WDAF WFAE WEEI
WFBR WGY WHO WJAR WLIT
WLS WOC WOV WRC WSAI WTAG
WTAM WTIC WJZ
B — Eno Crime. 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 KFRC KGB KHJ
KLRA KLZ KMBC KMJ KMOX
KGIN KOL KOMA KSL KTAT
KTRH KTSa KVI KWG WABC
WBRC WCAO WCAU WCCO WDOD
WDRS WDSU WEAN WFBL WFBM
WGN WJR WGST WHAS WHK
WJAS WJSV WKRC WLAC WMT
WNAC WOKO WORC WOWO WREC
WRR

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

R — Wayne King and Orchestra
KSD WBen WCAE WCSH WFAE
WFBR WGY WJAR WKBK WLIT
WMAQ WOV WRC WSAI WTAG
WTAM WJZ

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
R — Ipana Troubadours
KDYL KFI KGO KGW KHQ KOA
KOMO KPRC KSD KSTP KTBS
KTHS KVoo WAPI WBAF WBen
WCAE WCSH WDAF WFAE WFAA
WFBF WGY WHO WIOD WIS
WJAR WJAZ WKY WLIT WMAQ
WMC WQAL WOC WOV WRC
WRVA WSAI WSB WSM WSMB
WTAG WTAM WTMJ WJZ

B — Warden Lawes; Sing Sing Drama
KDKA, KOIL KSO KWCR KWK
WBAL WBZ WBZA WCKY WGAR
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. Stoopnagle and Budd

CKLW KDB KERN KFBB KFH
KFPY KFRC KGB KHJ KLRA KLZ
KMBC KMJ KMOX KGIN KOL
KOMA KRLD KSCJ KSL KTRH
KTSa KVI KWG WABC WADC
WBMB WBRB WBT WCAH WCAO
WCAU WCCO WDAE WDRS WDSU
WEAN WFBL WFBM WGST WHAS
WHBC WHK WIBW WICC WISN
WJAS WJSV WKWB WKRC WLAC
WMBD WMT WNAC WOKO WOWO
WQAM WREC 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 KFBB KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KGIN KOL KOMA KRLD

KSL KTRH KTSa KVI KWG WABC
WADC WBT WCAO WCAU WCCO
WDRS WEAN WFBL WFBM WGN
WHK WJAS WJSV WKWB WKRC
WNAC WOKO WORC WOWO WSPD
R — Fred Allen's Revue
KSD KSTP WBen WCAE WCSH
WDAF WFAE WFBR WGY WJAR
WLIT WMAQ WOV WRC WSAI
WTAG WTAM WTMJ WJZ

B — John McCormack, Tenor
KDKA KDYL KFI KGO KGW KHQ
KOA KOIL KOMO KSO KWCR
KWK WBAL WBZ WBZA WCKY
WENR WGAR 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 KFBB KFPY
KFPY KFRC KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOH KOIN
KOL KOMA KRLD KSCJ KSL
KTRH KTSa KVI KVOR KWG
WABC WACO WADC WBIG WBRB
WBT WCAH WCAO WCAU WCCO
WDAE WDBJ WDBO WDOD WDRS
WDSU WEAN WFBL WFBM WFEA
WGN WGST WHAS WHBC WHK
WHP WIBW WICC WISN WJAS
WJSV WKWB WKWB WKRC WLAC
WLWB WLBB WMAS WMBD WMBG
WMT WNAC WNAX WOKO WORC
WOWO WPG WQAM WREC WSPD
WTAR WTOC

R — Corn Cob Pipe Club
KDYL KFI KFYR KGLH KGRH
KGO KGW KHQ KOA KOMO KSD
KSTP WBen WCAE WCSH WDAF
WDAF WFAE WFBM WEEI WENR
WFBR WGY WHO WIBA WJAR
WLIT WLW WOC WOV WRC
WRVA WTAG WTAM WTIC WTMJ
WJZ

B — Benny Meroff Revue
KDKA KOIL KPRC KSO KTHS
KWCR KWK WAPI WAVE WBAL
WBZ WBZA WFAA WFLA WGAR
WHAM WIOD WIS WJAZ WJDX
WJZ WKY WMAL WMC WOAI
WREN WSB WSM WSMB WSOC
WWNC

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

R — National Radio Forum
KPYR KPRC KSD KSTP KTHS
KVoo WBen WCAE WCSH WDAF
WFAE WEEI WFAA WFBF WFLA
WGY WHO WIBA WIS WJAR WJAZ
WJDX WKY WMAQ WOAI WOC
WOW WRC WRVA WSAI WSB WSM
WSMB WTAG WTAM WTIC WJZ
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 — Andre Kostelanetz
CKLW KFH KLRA KLZ KMBC
KSCJ KTRH KTSa WAAB WABC
WACO WADC WBRB WCAH WCAO
WDAE WDBJ WDBO WDOD WDRS
WDSU WEAN WFBM WFEA WGLC
WGST WHAS WHBC WHK WHP
WIBW WICC WISN WJAS WKWB
WLAC WLWB WLBB WMAS WMBD
WMBG WMT WNAX WODX WOKO
WORC WPG WQAM WREC 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 WBRB WCAH
WCAO WCCO WDAE WDBJ WDBO
WDOD WDRS WDSU WEAN WFBL
WFBM WGLC WGST WHAS WHBC
WHP WIBW WIP WISN WJAS
WKWB WLAC WLWB WLBB WMAS
WMBD WMBG WMT WNAX 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 KTHS KTBS KVoo
WAPI WBAF WDBJ WKY WMC
WOAI WSB WSM WSMB

B — Poet Prince, Songs
KDYL KFI KFYR KGO KGW KHQ
KOA KOIL KOMO KSO KSTP KTBS
KTHS KWCR KWK WAPI WBAF
WCKY WDAF WEEB 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 KFBB KFPY KFRC
KGB KHJ KLZ KMJ KGIN 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-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 — John B. Kennedy
KDYL KFYR KOA KPO KPRC KSD
KTBS KTHS KVoo WAPI WDAF
WFAE WFBR WFI WGY WHO WIBA
WIS WJAZ WJDX WMAQ WMC
WOR WRC WSAI WSB WSMB WTAG
WJZ WWNC

C — Edith Murray, Songs
WAAB WABC WBIG WBRB WBT
WCAO WDAE WDBJ WDSU WFEA
WGST WHBC WHP WJSV WKBN
WLBB WMAS WMBG WORC WQAM
WREC WSFA WSJS WTOC

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

B — Lowell Thomas, See Monday

C — Little Italy, See Tuesday

R — Southernaires; Negro Quartet
KDYL KOA KPO KSD WFAE WFBR
WFI WGY WHO WIS WJAZ WMAQ
WOC WRC WSAI WTAG WJZ
WWNC

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

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
CFCC CRCT KDYL KFI KFYR KGO
KGW KHQ KOA KOMO KPRC KSD
KTBS KSTAR KTHS WAFI WBAP
WBEN WCAE WCHS WDAF WDAY
WEAF WEBC WEEL WFBF WFI
WFLA WGY WKY WIOD WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI WOC WOW WPTF WRG
WSB WSM WSMB WTAG
WTAM WTMJ WWJ

C — Morton Downey, Tenor
CKLW KFH KLRA KMBC KOMA
KSCJ KSL KTRE KTSB WABC
WACO WADC WBIG WBRC WCAH
WCAO WCAU WCCO WDAE WDBJ
WDRO WDOD WDRG WDSU WEAN
WFBL WFLM WFEA WGLC WGR
WGST WHAS WHEC WHP WIBC
WICC WISN WJAS WKBN WLW
WLBW WLBZ WMAS WMBG WMT
WNAC WOKO WORC WQAM WREC
WSJS WSPD WTAR WTOC 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
WBMM WCAO WCAU WDRG WEAN
WFBL WGR WHAS WHK WJAS
WJSV WKRC WNAC WOKO WOWO
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 KFSD KGO KGW KHQ
KOA KOMO KPRC KSD KSTP KSTAR
KTBS WAFI WBAP WBEN WCAE
WCKY WCHS WDAF WEAF WEEL
WFBF WFI WFLA WGY WHO WIOD
WIS WJAR WJAX WJDX WKY
WMAQ WMC WOAI WOC WOW
WRC WRVA WSAI WSB WSM WSMB
WTAG WTAM WTMJ WWJ WNNC
B — 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 KSCJ KTSB WABC
WACO WADC WBIG WBRC WCAO
WCCO WDAE WDBJ WDOD WDOD
WDRG WDSU WEAN WFBL WFEA
WGLC WGST WHEC WHK WHP
WIBW WICC WIP WJAS WKBN

WKBW WLAC WLBW WLBZ WMAS
WMBD WMBG WMT WNAC WNAX
WODX WOKO WORC WQAM WREC
WSBT WSJS WSPD WTAR WTOC
B — Richard Humber 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 KFYR KGO KGW KHQ
KOA KOMO KPRC KSD KSTP KTBS
KTHS KY60 WBAP WBEN WCAE
WCHS WDAF WDAY WEAF WEBC
WEEL WFBF WFLA WGY WHO
WIBA WIOD WIS WJAR WJAX
WJDX WKY WLW WMAQ WMC
WOAI WOC WOW WRC WRVA WSB
WSM WSMB WTAG WTAM WTMJ
WWJ WNNC

B — Hands Across the Border
CFAC CFBO CFCC CFCH CFCN
CFCC CFCY CFCJ CFNB CFFL
CFQC CHAB CHGS CHNS CHRCC
CHWC CHWK CJCA CJCB CJCJ
CJGC CJOC CJRM CJRW CECH
CKCK CKNC CKOC CKOV CKPC
CKPR CKUA CKX CKY CRCO CRCS
CRCT CRVC CFCF 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 WCHS WEAF WFI WFLA
WGY WIOD WIS WOW WRVA
WTAM WNNC

C — Presenting Mark Warnow
CKLW KFH KLRA KLZ KMBC
KSCJ KTSB WAAB WABC WACO
WADC WCAH WCAU WDAE WDBJ
WDRO WDOD WDRG WDSU WFBM
WFEA WGLC WGST WHAS WHRC
WHK WHP WIBW WICC WISN
WJAS WKBN WKBW WLAC WLBW
WLBZ WMAS WMBD WMBG WMT
WNAX WODX WOKO WORC WQAM
WREC WSJS WSPD WTAR WTOC

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 WDRO
WDOD WDRG WDSU WEAN WFBL
WFBM WGLC WGST WHAS WHEC
WHP WIBW WISN WJAS WKBN
WKBW WLAC WLBW WLBZ WMAS
WMBD WMBG WMT WNAX WODX
WOKO WORC WPG WQAM WREC
WSJS WSPD WTAR WTOC
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 WBN WCAE WCHS WDAF
WEAF WEEL WFBF 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 WDRO WDOD WDRG
WDSU WEAN WGST WICC WIP
WLAC WLBZ WMAS WMBG WNAC
WORC WQAM WREC WSJS WSPD
WTAR WTOC

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 WDRO WDOD WDRG
WFEA WGST WHEC WHK WICK
WJSV WLAC WLBW WLBZ WMBG
WOKO WORC WQAM WREC WSFA
WSJS WSPD WTOC
R — Waldorf Astoria, See Monday

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
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
WDRG WDSU WFEA WGST WHEC
WKBW WKBW WLBZ WMAS WMBG
WOKO WORC WQAM WREC WSFA
WSJS WTOC

E-8:45 p.m., C-5:45, M-4:45, P-3:45
C — Zee! Parenteau's Orchestra
CKLW WAAB WABC WBT WCAU
WDRG WEAN WFBL WFEA WHEC
WJSV WKBW WLBZ WOKO

B — Lowell Thomas, See Monday
R — Mountain Music
KDYL KOA KSD WCAE WCKY
WEAF WEEL WJDX WMAQ WOW
WSB WTAG WWJ

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 WCHS WDAF WEAF WEEL
WGY WJAR WKBW WLW WMAQ
WOW WRC WTAG WTAM WTIC
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 WBN WCAE WCHS
WDAF WEAF WEBC WEEL WFEA
WFBF WGY WHO WJAR WKY WLIT
WOAI WOC WOW WRC WRVA WSAI
WTAG WTAM WTIC WTMJ WWJ

FRIDAY—(Continued)

B — Nestle's with Ethel Shutta
KDKA KWK WBAL WBZ WBZA
WCKY WGAR WJR WJZ WLS WMAL
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 KFPY
KFRK KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KSL KTRH KVI
KWG WABC WCAO WCAU WCCO
WDRS WDSU WEAN WFBL WDBO
WGN WGR WGST WHAS WHK 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
C — Red Davis, See Monday

E-9:00 p. m., C-8:00, M-7:00, P-6:00
B — Phil Harris and Orchestra
CFBC KDKA KDYL KFI KGHK
KGRK KGO KGW KHQ KOA KOIL
KOMO KSO KWCR KWK WAPI
WBAL WBZ WBZA WCKY WFAA
WGAR WJZ WKY WLS WMAL
WOAI WREN WSB WSM WSMB
WSYR

C — Philadelphia Symphony, See Mon.
R — Frank Munn; Abe Lyman
KSD WBEN WCHS WEAF WEEI
WFBR WGY WJAR WLIT WMAQ
WOW WRC WSAI WTAG WTAM
WVJZ

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 KRDL KSCJ KSL
KTRH KTSa KVOR WABC WACO
WADC WBIG WBRG WCAH WCAO
WCAU WCCO WDAE WDBJ WDBO
WDOD WDRS WDSU WEAN WFBL
WFBR WFEA WGLC WGST WHAS
WHCC WHP WIBW WICC WJAS
WJSV WKBW WLAC WLWB WLWB
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 WCHS WDAF
WEAF WFBR WGY WHO WJAR
WLIT WMAQ WOC WOW WRC WSAI
WTAG WTAM WTIC WWJZ

B — Armour Program; Phil Baker
KDKA KDYL KFI KGO KGW KHQ
KOA KOIL KOMO KPRC KSO KSTP
KTAR KWK WAPI WBAL WBZ
WBZA WEBC WENR WFAA WGAR
WHAM WIOD WJAX WJR WJZ
WKY WMC WOAI WREN WRVA
WSB WSM WSMB WTMJ 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 KFPY
KFRK KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRDL
KBCJ KSL KTRH KVI KWG WABC
WADC WBBM WBRG WBT WCAO
WCAU WCCO WDRS WEAN WFBL
WGST WHAS WHK WJAS WJSV
WKBR WKRC WNAC WOKO WOWO
WREC

R — First Nighter—Drama
CRCT KDYL KFI KGO KGW KHQ
KOA KOMO KPRC KSD KSTP
WAPI WBEN WCAE WCHS WDAF
WEAF WEBC WEEI WFBR WGY
WHO WJAR WKY WLIT WMAQ
WOAI WOC WOW WRC WSAI WSB
WSM WSMB WTAG WTAM WTIC
WTMJ WWJZ

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

E-10:30 p. m., C-9:30, M-8:30, P-7:30
B — Mario Cozzi, Baritone
KDKA KFYP KOIL KSO WAPI
WBAL WBZ WBZA WCKY WDAY
WEBC 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
WBRG WBT WCAH WCAO WDAE
WDBJ WDRS WDSU WEAN WFEA
WGST WHAS WHEC WHK WHP
WIBW WICC WISN WJAS WJSV
WKBR WLWB WLWB WMBD
WMBG WMT WODX WOKO WORC
WOWO WPG 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-8:00 p. m., C-5:00, M-4:00, P-3:00
C — Meet the Artist

CFRB CKLW KFH KLRA KMBC
KOMA KSL KTRH KTSa KVOR
WAAB WABC WACO WADC WBBM
WBIG WBRG WCAO WCCO WDBJ
WDSU WFBL WFEA WGR WGST
WHAS WHEC WHK WHP WIBW
WICC WIP WISN WJAS WJSV WLAC
WLWB WLWB 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 WCKY WHAM WJR WJZ
WMAL WREN WSYR

E-8:15 p. m., C-5:15, M-4:15, P-3:15
C — Mildred Bailey, Songs

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

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

WBZA WCKY WHAM WJR WJZ
WMAL 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
WBRG WCAO WCAU WDAE WDBJ
WDBO WDOD WDRS WDSU WFBL
WFEA WGLC WGST WHEC WHP
WJSV WKBW WLAC WLWB WLWB
WMAS WMBG WOKO WORC WQAM
WREC WSJS WSPD WTAR WTOC
R — Richard Humber and Orchestra
KDYL KFI KFYP KGO KGW KHQ
KOA KOMO KPRC KSD KSTP KTSB
KTHS KVOO WCAE WDAF WDAY
WEAF WEBC WFLA WHO WIBA
WIOD WIS WJAR WJAX WJDX
WKY WMC WMC WMO 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 WCKY WGAR
WHAM WJR WJZ WSYR
R — J. C. Nugent—Male Quartet
WCHS WEAF WEEI 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 WKFB
WMAL WMAQ

C — Elder Michaux Congregation
CFRB CKLW KFH KLRA KGLZ
KSCJ KSL KTRH KTSa KVOR
WABC WACO WADC WBIG WBRG
WCAO WCAU WDAE WDBJ WDBO
WDOD WDRS WDSU WFBL WFEA
WGLC WGR WGST WHEC WHP
WIBW WICC WJAS WJSV WLWB
WLWB 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 KFYP KGO KGW KHQ KOA
KOMO KSD KTSB WAPI WENR
WCAE WDAF WEAF WEEI WFAA
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 WBRG WCAH WCAO
WCAU WCCO WDAE WDBJ WDBO
WDOD WDRS WDSU WEAN WFBL
WFBR WFEA WGLC WGR WGST
WHAS WHEC WHK WHP WIBW
WICC WISN WJAS WJSV WLAC
WLWB WLWB 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 WVCB WCCO

SATURDAY—(Cont'd)

WDRC WEAN WFBL WGR WHEC
WHK WJAS WJVS WKRC WNAC
WOKO WRR WSPD

R — George Olsen and Orchestra
KDYL KFI KFJR KGO KGW KHQ
KOA KOMO KPRC KSD KSPF KTBS
KVOO KYW WBNB WBSH WDAF
WEAF WEBC WEEI WFBR WFLA
WGY WIBA WIOD WIS WJAX
WJDX WOAI WOW WRC WSB WSM
WSMB WTAG WTAM WWJ WNNC
B — Economics in the New Deal
KOIL KSO KWCR WBAL WKCY
WENR WHAM WJR WJZ WMAL
WREN WSYR

E-8:30 p.m., C-7:30, M-6:30, P-5:30
B — Boston Symphony Orchestra
CFCF CRCT KDYL KFI KFJR
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 WNNC
R — Sous Les Ponts de Paris
KSD KYW WBNB WBSH WDAF
WEAF WEEI WFBR WGY WJR
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
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KSL KVI KWG
WAAB WABC WADC WBBM WCAO
WCAU WCCO WDRC WEAN WHAS
WHK WJAS WJVS WKBW WKRC

E-9:00 p.m., C-8:00, M-7:00, P-6:00
R — Metropolitan Opera
KDYL KFSB KFJR KGO KGW KHQ
KHO KOA KOMO KPRC KSD KSTP
KTAR KTBS KTHS WAPI WBAP
WBNB WCAE WDSH WDAF WDAY
WEAF WEBC WEEI WFBR WFI
WFLA WGY WIBA WIOD WIS WJAX
WJDX WKY WLW WMAQ
WMC WOAI WOW WRC WRVA WSB
WSMB WTAG WTAM WTMJ WWJ
WNNC
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 WBNB
WCAE WDSH WDAF WEAF WEEI
WFBR 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 KFRC KGB KHJ KLRA
KMBC KMJ KMOX KOIN KOL
KOMA KRLD KTRH KTSB KVI
KWG WAAB WABC WACO WADC
WBBM WBRB WBT WCAO WCAU
WCCO WDAE WEAN WGST WHAS
WHEC WHK WHP WIBW WJVS
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 KTSB
KYOR WAAB WABC WADC WBIG
WBRB WBT WCAE WCAO WDBJ
WDRS WDSU WEAN WFBM WFLA
WGST WHEC WHP WIBW WIP
WISN WJAS WJVS WKBW WLWB
WMBD WMBG WMT WNNC WOKO
WPG WQAM WREC WSBT WSUS
WTAG WTAR WTTN WTVB
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 KTSB KYOR
WAAB WABC WADC WBIG WBRB
WCAO WCAU WCCO WDBJ WDSU
WEAN WFBL WFBM WGST WHAS
WHP WIBW WICC WISN WJVS
WKBW WLAC WLWB WLWB
WMBD WMBG WMT WOKO WPG
WQAM WREC WSBT WSUS WTAR
WTOC

R — One Man's Family—Sketch
CFCF KDYL KFI KFJR KGO KGW
KHQ KOA KOMO KPO KPRC KSD
KSTP KTBS KTHS KVOO WBNB
WCAE WDAF WDAY WEAF WFBR
WFI WFLA WGY WHO WIBA WIOD
WIS WJAX WJAX WJDX WKY
WMAQ WMC WOAI WOC WOW
WRC WRVA WSAI WSB WSMB
WTAG WTAM WWJ WNNC
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 KTSB KYOR
WABC WADC WBRB WCAO WDBJ
WDSU WEAN WFBL WFBM WGST
WHEC WHP WIBW WIP WISN
WJVS WKBW WLAC WLWB WLWB
WMBD WMBG WMT WNNC WOKO
WPG WQAM WREC WSBT WSUS
WTOC

R — Hollywood on the Air
CFCF KDYL KFJR KOA KPO KPRC
KSD KSTP KTBS KTHS KVOO
WBNB WCAE WDAF WDAY WEAF
WFBR WFI WFLA WGY WHO WIBA
WIOD WIS WJAR WJAX WJDX
WKY WMAQ WMC WOAI WOC
WOW WRC WRVA WSAI WSB
WSMB WTAG WTAM WWJ WNNC

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

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 Scott 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 KFJR KOA KPRC KSTP
KTBS KVOO WAPI WCAE WDAF
WDAY WEAF WEBC WFAA WFBR
WFLA WGY WHO WIOD WJAR
WJAX WKY WMAQ WMC WOAI
WOC WRC WRVA WSAI WSMB
WTAG WTAM WNNC

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 KTSB KYOR WABC
WACO WADC WBIG WBRB WCAO
WCCO WDBJ WDRS WDSU WEAN
WFBL WFEA WGN WGR WGST
WHAS WHEC WHP WIBW WICC
WISN WJAS WJVS WLAC WLWB
WMBD WMT WNSC WOKO WORC
WPG WQAM WSBT WSFA WSJS
WTAG WTAR WWVA

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

E-12:30 p.m., C-11:30, M-10:30, P-9:30
B — Radio City Concert
CFCF CRCT KDKA KDYL KFI
KFJR 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 WNNC

R — Chicago Round Table
WBNB WDSH WDAF WEAF WEEI
WFBR WFI WGY WHO WJAR
WOC WOW WRC WSAI WTAG
WTAM WWJ

C — Madison Ensemble
CFRB CKLW KLRA KLZ KMBC
KOMA KSL KTRH KYOR WACO
WADC WBIG WCAO WCAU WDBJ
WDRS WDSU WEAN WFBL WFEA
WGR WGST WHAS WHEC WIBW
WISN WJAS WJVS WLAC WLWB
WMBD WMT WNNC WOKO WPG
WQAM WREC WSBT WSUS WTAG
WTAR WTTN WTVB WTVS
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 KTSB KYOR WAAB WABC
WACO WADC WCCO WDBJ WDRS
WDSU WFBL WGR WGST WHAS
WHEC WHP WIBW WJAS WJVS
WLAC WLWB WMT WOKO WPG
WQAM WREC WSBT WSUS WTAG
WTAR WTTN WTVB WTVS
WVVA

R — Russian Symphonic Choir
WBNB 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
WBEN WCSH WEA F WEEL WFI
WGY WJAR WTAG WTAM WWJ

B—National Youth Conference
KDKA KFI KFSD KFYR KGHL
KGIR KGO KGW KHQ KOA KOIL
KOMO KPRC KSO KTAR KTBS
KVOO KWCR KWK WAPI WBAL
WBZ WBZA WDAY WECB WFAA
WGAR WIBA WIOD WIS WJAX
WJDX WJR WJZ WMAL WQAI
WREN WRVA WSB WSM WSMB
WSYR WNNC

G—Lazy Dan, Minstrel Man
CKLW KMBC KMOX KRLL WABC
WBMM WCAH WCAO WCAU WCCO
WHAS WHK WJAS WJSV WKBW
WKRC WMBG

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

G—Broadway Melodies; Helen Morgan

CFRB CKLW KDB KFPY KPRC
KGB KHJ KLZ KMBC KMOX KOIN
KOL KRLL KSL KVI WABC WBMM
WCAO WCAU WCCO WDCU WHK
WJAS WJSV WKBW WKRC WLAC
WNAC

R—Gene Arnold and Commodores
KDYL KFI KGO KGW KHQ KOA
KOMO KPRC KVOO WBEN WCAE
WCSH WEA F WEBC WEEL WFAA
WFBR WGY WIBA WJAR WKY
WLW WMAQ WQAI WOV WPTF
WRC WRVA WTAG WTAM WWJ
WNNC

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

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

G—Abe Lyman's Orchestra
CFRB CKLW KMBC KMOX WABC
WBMM WCAO WCAU WCCO WDRS
WJAS WFLB WFBM WHBC WHK
WJW WKBW WKRC WNAC WOKO

B—Grenadier Guards Band
CFRC CRCT KDKA KOIL KSO
KWCR KWK WAPI WBAL WBZ
WBZA WCKY WFLA WGAR WHAM
WIOD WIS WJAX WJDX WJR WJZ
WMAL WMC WR VA WSB WSM
WSMB WSYR WNNC

R—Elizabeth Lennox, Contralto
WBEN WDAF WEA F WEEL WFBR
WGY WJAR WOW 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
WBEN WCAE WESH WDAF WEA F
WEEL WFBR WGY WHO WJAR
WMAQ WOC WOW WRC WSAI
WTAG WTAM WWJ

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

G—New York Philharmonic Orch.
CFAC CFBO CFCC CFCH CFEN
CFGO CFPC CFJC CFNB CFFL
CFQC CHAB CHGS CHNS CHRC
CHWC CHWK CJCA CJCB CJGJ
CJGX CJOC CJRM CJRW CRCH
CKKC CKNC CKOC CKOV CKPC
CKPR CKUA CKX CKY CRCA
CROC CRCS CRCT CRCV CRFB
CKLW KFH KLRA KLZ KMBC
KMOX KOMA KSL KTRH K TSA
KVOA WABC WADC WBIG WBRG
WCAO WCAU WCCO WDBJ WDRS

WDSU WEAN WFBM WFEA WGN
WGR WGST WHAS WHEC WHK
WHP WIBW WICC WIP WISN WJAS
WJSV WLAC WLWB WMBD WMBG
WMT WNBC WOKO WORC WQAM
WRBC WSBT WSJS WTAQ WTAR
WTOC WWVA

R—Wayne King and Orchestra
KDYL KFI KGO KGW KHQ KOA
KOMO KPRC KSD KSTP KVOO
WBEN WCAE WCSH WDAF WEA F
WEEL WFAA WGY WHO WJAR
WKBK WKY WLIT WLS WLW
WQAI WOC WOW WRC WTAG
WTAM WTMJ WWJ

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

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

B—Irene Rich in Hollywood
KDKA WBAL WBZ WBZA WCKY
WGAR 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 Triolians
KSD KYW WBEN WCAE WCSH
WDAF WEA F WFBR WGY WJAR
WLIT WOW WRC WSAI WTAG
WTAM WWJ

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

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

R—Fiddlers Three
CFRC CRCT KDYL KFI KFSD
KFYR KGO KGW KHQ KOA KOMO
KSD KSTP KTAR KTBS KYW
WAPI WBEN WCAE WDAF WDAY
WEAF WEBC WEEL WFLA WGY
WHO WIBA WIOD WIS WJAR
WJDX WKY WLIT WQAI WOC
WOW WRC WRVA WSAI WSB WSM
WTAG WTAM WWJ WNNC

Rev. Charles E. Coughlin
KMOX KSTP KYW WCAO WCAU
WDRS WEAN WFLB WFEA WGAR
WGR WHB WHO WICC WJAS WJR
WLWB WLW WMAS WNAC WOC
WOL WOR WORC WCKY WOKO
B—Dion Kennedy, Organist
KDKA KDYL KFI KFYR KGHL
KGIR KGO KGW KHQ KOA KOIL
KOMO KPRC KSO KTBS KTHS
KVOO KWCR KWK WAPI WBAL
WBAP WBZ WBZA WDAY WECB
WFLA WHAM WIBA WIOD WIS
WJAX WJDX WJZ WKBK WKY
WLS WMAL WMC WQAI WPTF
WREN WRVA WSB WSM WSMB
WSYR WNNC

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

R—Wildroot; Vee and Johnny
KDYL KFI KFYR KGO KGW KHQ
KOA KOMO KPRC KTBS KVOO
WBEN WCAE WCSH WDAF WDAY
WEAF WEBC WEEL WFAA WFBR

WGY WIBA WJAR WKY WLIT WLS
WQAI WOW WRC WSAI WTAG
WTAM WTMJ WWJ

B—Morin Sisters, Harmony Trio
CFRC CRCT KDKA KOIL KSO
KWCR KWK KYW WBAL WBZ
WBZA WCKY WFLA WGAR WHAM
WIOD WJAX WJDX WJR WJZ WLW
WMAL WREN WRVA WSB WSM
WSYR WNNC

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
WEAF WBEN WCAE WCSH WDAF
WEAF WEBC WEEL WFBR WFI
WGY WIBA WJAR WKY WMAQ
WQAI WOW 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 K TSA
WAAB WABC WADC WBBM WBRG
WCCO WDSU WGST WHAS WHK
WJAS WJSV WKRC WREC

R—Big Ben Dream Drama
WBEN WCAE WCSH WDAF WEA F
WEEL WFBR WGY WJAR WMAQ
WOW WRC WSAI WTAG WTAM
WWJ

B—National Vespers
KDYL KECA KFSD KFYR KGHL
KGIR KGO KGW KHQ KOA KOIL
KPRC KSO KSTP KTAR KTBS
KVOO KWCR KWK WAPI WBAL
WBZ WBZA WCLF WCKY WDAY
WEBC WFLA WGAR WHAM WIBA
WIOD WIS WJAX WJDX WJR WJZ
WKY WMAL WMC WQAI WPTF
WREN WRVA WSB WSM WSMB
WNNC

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

R—Achievements in Science, Drama
CFRC CRCT WBEN WCAE WCSH
WDAF WEA F WENR WFBR WGY
WJAR WOW 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
KOM AWAAB WABC WADC WCAH
WCAO WCAU WDRS WDSU WEAN
WFLB WFBM WGR WEBC WHK
WICC WJSV WMAS WOKO WORC
WSPD WTAR WWVA

R—Talkie Picture Time—Sketch
WCAE WCSH WDAF WEA F WEEL
WFBR WFI WGY WJAR WMAQ
WMC WOW 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 WGAR WHAM WJR
WJZ WKBK WMAL 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
WHK WJAS WJSV WKRC
R—Catholic Hour
KDYL KECA KFYR KGHL KGIR
KGW KOA KOMO KPO KPRC
KSTP KTAR KTBS KVOO WAPI
WBAP WBEN WCAE WCSH WDAF

SUNDAY—(Continued)

WDAY WEAF WEBC WEEI WENR
WFBR WFLA WGY WHO WJAX
WIOD WIS WJAR WJAX WJDX
WKY WLIT WMC WOAI WOC WOW
WRC WRVA WSAI WSB WSM
WSMB WTAG WTAM WWJ WWNC
B — Cadillac Concert
KDKA KOIL KSO KWCR KWK
WBAL WBZ WBZA WENR WGAR
WHAM WJR WJZ WLW WMAL
WREN WSYR

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

C — Smiling Ed McConnell
CKLW KDB KERN KFAB KFBK
KFH KFPY KPRC KGB KHJ KLZ
KMBC KMOX KOIN KOL KRLD
KSL KVI KWG WAAB WABC WBBM
WBT WCAH WCAU WCCO WDSU
WEAN WFBL WHAS WHBC WHP
WJAS WJSV WKBW WKRC WLAC
WMT WOKO WQAM WSPD WTAR
WWVA

CF — Our American Schools
CFRC CRTX KDYL KECA KFSD
KFYR KGW KOMO KPO KPRC KSD
KSTP KTAR KTBS KV00 WAPI
WBAP WBEN WCAE WCHS WDAF
WDAY WEAF WEBC WEEI WFBR
WFLA WGY WHO WIBA WIOD
WJAR WJAX WJDX WKY WLIT
WMAQ WMC WOAI WOC WRC
WRVA WSAI WSB WSM WSMB
WTAG WTAM WWJ WWNC

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

C — Charles Carille, Tenor
CKLW KDB KERN KFBK KFPY
KFRC KGB KHJ KLRA KLZ KMBC
KMJ KMOX KOIN KOL KSL KVI
KWG WAAB WABC WADC WBBM
WBIG WBRB WCAO WCAU WCCO
WDAE WDBC WDRS WDSU WEAN
WGST WHAS WHK WIP WJAS
WJSV WKBH WKBW WKRC WPG
WSJS WTAR WTOC

E-7:00 p.m., C-6:00, M-5:00, P-4:30

R — True Story Court
WBEN WCAE WCHS WEAF WFBR
WGY WJAR WMAQ WOW WRC
WSAI WTAG WTAM WWJ

C — Ethel Waters; George Beatty
WABC WBT WCAO WCAU WDAE
WDBO WDRS WEAN WFEA WGST
WHK WJAS WJSV WKBW WLW
WNAC WPG WQAM WTAR WWVA

B — Realsilk; Tod Weems' Orchestra
KDKA KDYL KFI KGO KGW KHQ
KOA 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 KTAR KV00 KWCR KWK
WBAL WBZ WBZA WDAE WBC
WFAA WFLA WGAR WHAM WIBA
WIOD WJAX WJDX WJR WJZ WKY
WLS WLW WMAL WMC WOAI
WPTF WREN WRVA WSB WSM
WSMB WTMJ WWNC

C — H. V. Kaltenborn
CKLW KFH KLRA KLZ KOMA
KSCJ KTRH WABC WADC WBIG
WBRB WCAH WCAO WCAU WDAE
WDBJ WDBO WDOD WDRS WDSU
WEAN WFEA WFLC WGR WGST
WHAS WHBC WHP WIBW WISN

WJAS WKBN WLBZ WMA5 WOKO
WORC WQAM WSBT WSJS WSPD
WTAR WTOC WWVA

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 WGN WGR WHAS WHK
WJAS WJSV WKRC WNAC
R — Fitch Program; Wendell Hall
CFRC KSD WBN WCAE WCHS
WDAF WDAF WFBR WGY WHO
WJAR WLIT WMAQ WOC WWO
WRC WSAI WTAG WTAM WWJ

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

R — Chase and Sanborn Hour
CFRC CRTX KDYL KFI KFYR KGO
KGW KHQ KOA KOMO KPRC KSD
KSTP KTAR KTHS' KV00 WBN
WCAE WCHS WDAF WDAY WEAF
WBC WFPA 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 WTMJ WTMJ WWJ WWNC

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 KDLW KFAB KFH
KLRA KLZ KMBC KMOX KOH
KOMA KRLD KSL KTRH KTSB
KVOR WAAB WABC WACO WADC
WBBM WBIG WBRB WBT WCAH
WCAO WCAU WCCO WDAE WDBJ
WDBO WDOD WDRS WDSU WEAN
WFBL WFBM WFEA WGST WHAS
WHBC WHK WHP WIBW WICC
WISN WJAS WJSV WKBW WKBW
WKRC WLAC WLW WLW WMA5
WMBD WMBG WMT WOKO WORC
WOW WPG WQAM WREC WSPA
WSPD WTAQ WTAR WTOC WWVA

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

C — Erno Rapee; Nino Martini
CKLW KDB KERN KFBK KFPY
KFRC KGB KHJ KLRA KLZ KMBC
KMJ KMOX KOIN KOL KOMA
KRLD KSCJ KSL KTRH KVI KWG
WABC WADC WBBM WCAO WCAU
WCCO WDRS WDSU WEAN WFBL
WFBM WGR WGST WHAS WHK
WISN WJAS WJSV WKRC WMT
WNAC WNAX WOKO WORC WOWO
WREC WSPD WTAR

R — Manhattan Merry-Go-Round
KDYL KFI KGO KGW KHQ KOA
KOMA KSD WDAF WEAF WFBR
WFI WGY WHO WJAR WMAQ WOC
WOW WRC WSAI WTAM WTMJ
WWJ

B — Gulf Headliners
KAKA KPRC KTBS WBAL WBZ
WABC WFPA WFLA WGAR WHAM
WIOD WIS WJAX WJDX WJR WJZ
WLW WMAL WMC WOAI WRVA
WSB WSM WSMB WSYR WWNC

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

R — Album of a Familiar Music
CFRC CRTX KDYL KFI KGO KGW
KHQ KOA KOMO KPRC KSD KSTP
WAPI WBN WCAE WCKY WCHS
WDAF WEAF WEEI WFPA 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 WWJ
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 Shefter Piano Duo
KDKA KOIL KSO KWCR KWK
KYW WBAL WBZ WBZA 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 KTAR KTBS WAPI
WBAP WBEN WCAE WCHS WDAF
WDAY WEAF WEBC WEEI WFBR
WFI WFLA WGY WIBA WIOD WIS
WJAR WJDX WKY WMAQ WMC
WOAI WOW WRC WRVA WSB WSM
WSMB WTAG WTAM WTMJ WTMJ
WWJ WWNC

C — Patric's Childhood Dramas
CKLW KDB KERN KFBK KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KSL KVI KWG
WAAB WABC WCAO WCAU WCCO
WDRS WFBL WGR WHAS 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 WCHS WDAF
WEAF WEEI WFBR WFI WGY
WJAR WJDX WKY WLW WMAQ
WMC WOAI WOW WRC WSM
WTAG WTAM WTMJ WWJ

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 KTSB KVOR WABC
WACO WBIG WBRB WCAH WCAO
WDAE WDBJ WDBO WDOD WDRS
WDSU WEAN WGST WHAS WHEC
WHP WICC WIP WISN WJAS WJSV
WKBW WLAC WLW WMA5 WMBD
WNAC WODX WOKO WPG WQAM
WREC WSFA 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
KTAR 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 KTSB KVOR WABC
WADC WBRB WBT WCAH WCAO
WCAU WDAE WDBJ WDRS WDSU
WEAN WFBL WFBM WGR WGST
WHEC WHK WHP WIBW WICC
WISN WJAS WJSV WKBW WLW
WMA5 WMBD WMT WNAC WOKO
WQAM WREC WSBT WSJS WSPD
WTOC

B — Paul Whiteman and Orchestra
KDKA KFYR KOIL KSO KSTP
KWCR KWK WBAL WBZ WBZA
WCKY WDAY WEBC WGAR WIBA
WJR WJZ WLW WREN

CLASSIFIED INDEX TO CHAIN PROGRAMS

Time in Eastern Standard

CONCERTS

Armcno 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.
 Rovy 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.
 Amos 'n' Andy, 7:00 and 11:00 p.m., daily, except Sat. and
 Sun., B.
 Phil Baker, 9:30 p.m., Friday, B.
 Jack Benny, 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, 3:15 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 Shefter, 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.
 Buick 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.
 Fitch 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, 2:30 p.m., Sunday, B.
 Gulf Headliners, 9:00 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.
 Sparton Triolians, 3:30 p.m., Sunday, R.
 Swift Revue, 10:00 p.m., Friday, C.
 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 Freestone, 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, 8:30 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 Bowe, 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; 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 Herriek, 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.
 Moran Sisters, 4:15 p.m., Sunday, B.
 Frank Munn, 9:30 p.m., Sunday; 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

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.

As Shown in the Index by
 Frequencies and Dial Numbers

- 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 Curtiss-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.

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With Tuesday's Time on the Air

KCYB.
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
KEY	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	ak	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

FON	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)
WWNC	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
WBDO	ae	250	CW	Orlando, Fla.	E-7:00-mid.
WIBW	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.
WEEL	ak	1000	R	Boston, Mass.	E-6:45-1. (W1XAL)
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.
WCAC	ae	250	2	Storrs, Conn.	E-12:30-1; 7-8
WCAC	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.

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610 kilocycles 491.5 meters

KFRC	ae	1000	CT	San Francisco, Calif.	P-7-mid.
KZEG	ak	1000	618.5	Manila, P. I.	L-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
TIXA	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-7:00-11:45
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	Charlottestown, 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	ae	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.
CJCJ	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-6:30-2. (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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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
WHBB	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
XEOK	ak	5000	757	Tijuana, B. C.	P—7:00-mid.

760 kilocycles 394.5 meters

CMBS	ak	200	765	Havana, Cuba.	E—10:noon; 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.
WBBM	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
WBAN	ae	500	CH	Providence, R. I.	E—7:30-1:00
WMC	ak	500	N (1)	Memphis, Tenn.	C—7:00-mid.
WTR	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.	L
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	ae	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.

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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
WHHD	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
XFX	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	1	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
WBAC	ae	50000	C	New York, N. Y.	E-7:30-2:00 (WBOQ) (W2XE)
WBB	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
KFKA	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
KFNF	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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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

CMDE	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
WBSO	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 (.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
WCSSH	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

KFWB	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.
VOGY	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
WJEM	z	500	D	Tupelo, Miss.	C

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KEAF	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

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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	5000	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
XEC	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

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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	ae	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

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KYW	ae	1000	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

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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
CMKC	z	150	1034	Santiago, Cuba.	E
XEB	ak	10000	Mexico City, D. F.	C—9:30-10:00

1040 kilocycles 288.3 meters

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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

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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	.....	Carnaguey, Cuba.	E
KFB1	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

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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.
WCBW	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
KRCV	ak	1000	F	Vancouver, B. C.	P-Noon-1; 5:30-11
KGDM	ak	250	D	Stockton, Calif.	P-6-sunset
TIRCA	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
KFIO	ae	100	D	Spokane, Wash.	P-7:00-sunset
KPFG	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
CMBW	ak	600	.....	Havana, Cuba.	E-6-11
KWOO	ae	25000	IN	Tulsa, Okla.	C-6:30-9
WAPI	ae	5000	IN	Birmingham, Ala.	C-6:00-sunset; 9:00-mid.

1150 kilocycles 260.7 meters

CMJH	ak	50	.....	Ciego de Avila, Cuba.	E-8:00-8:30; 10:00-3:00; 5:30-10:30
WHAM	ae	50000	B	Rocheater, 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.

KCY.S.
1160
DIAL

CUT OUT ON DOTTED LINES

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1170 kilocycles 256.3 meters

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CMJE	z	50	C	Camaguey, Cuba.	E
WCAU	ae	50000	C	Philadelphia, Pa.	E-8:00-1:00 (W3XAU)

1180 kilocycles 254.1 meters

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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-7-5:30; 8-mid.
KOB	ae	10000	2	.....	Albuquerque, N. M.	M-Noon-1:00; 5:00-9:00
WDGY	ak	1000	Dn	.....	Minneapolis, Minn.	C-6:30-8:15
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

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HIJ	z	15	1195	Santo Domingo, D. R.	E-12:30-2:30; 6:30-8:30
VE9EK	ak	10	1195	Montmagny, Que.	E
VONF	ak	400	1195	.....	St. John's, Nfld.	L-Noon-2:00; 6:00-9:00
WQAI	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

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CHAB	ak	100	F	Moose Jaw, Sask.	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
KGFJ	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
KWG	ae	100	CT	.....	Stockton, Calif.	P-7:00-mid.
WAB1	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.
WJBC	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
WJBW	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
WVAE	ae	100	8	.....	Hammond, Ind.	C-7-8:30; 11-1; 4-5; 6-mid.
YV3BC	ak	1000	.....	.....	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

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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
CKOV	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-9:00-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
WBEQ	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	ae	100	(.25)	Mississippi City, Miss.	C-9:00-1:00; 7:00-9:00
WGNV	ak	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-7:00-7:00
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
WPRO	ak	100	.....	Providence, R. I.	E-9:00-2:00; 4:00-11:15
WQDX	ae	100	.....	Thomasville, Ga.	E-8:00-9:00
WSCE	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

KCY#
1240
DIAL

1225 kilocycles 245.8 meters

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
KITW	ak	1000	S2	Seattle, Wash.	P-Silent
KWSC	ae	1000	2 (2)	Pullman, Wash.	P-6:45-8; 10:30-9:30
WCAD	ak	500	D	Canton, N. Y.	E-12:30-1:30
WCAB	ae	1000	R	Pittsburgh, Pa.	E-6:45-1:00
WDAB	ae	1000	CW	Tampa, Fla.	E-8:00-mid.
WREN	ak	1000	Ba	Lawrence, Kas.	C-7:00-mid.

1230 kilocycles 243.8 meters

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.
WFEM	ae	1000	1C	Indianapolis, Ind.	C-7:30-10:15; noon-3:00; 5:30-11:30
WNAC	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

CMAB	z	20	1249	Pinar del Rio, Cuba.	E
CMJN	z	50	.....	Camaguey, 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.

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KTFI	ae	1000	Twin Falls, Idaho. M—6:00-mid.
WKAQ	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

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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
WNEW	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

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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

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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.
KYOR	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

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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

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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
KLCN	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.
XFB	ak	1000	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

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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
KFCAC	ae	1000	.....	Los Angeles, Calif. P—7:00-mid.
KFH	ak	1000	C2	Wichita, Kans. C—7:30; 9-11; 11:30-2; 3-11
KFJR	ag	500	3	Portland, Ore. P—10:30-2:30; 5-6; 7-11
WBEB	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)
WQQ	ae	1000	2	Kansas City, Mo. C—6-7; 8:35-9:05; 11-11:30; 2-3; 11-mid.

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1310 kilocycles 228.9 meters

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
CJCV	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
KFBQ	ak	100	7	Boone, Iowa. C
KEPL	ak	100	.....	Dublin, Texas. C—6:30-8:30; 9:00-3:15; 7:00-10:45
KEPM	ae	15	.....	Greenville, Texas. C—7:45-9:00; 1:00-2:45; 6:00-9:00
KEFX	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	ak	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
KCFW	ak	100	.....	Kearney, Neb. C—7:00-9:00
KJFH	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—9:00-10:30; 4:30-7:00
WKBC	ak	100	(2.5)	Birmingham, Ala. C—7:00-10:00
WLBC	ak	100	6	Muncie, Ind. C—7:00-10:00
WMBO	ak	100	.....	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.
WTFL	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
XEI	ak	250	.....	Morelia, Mich. C—2:00-3:30; 9:00-10:00

1320 kilocycles 227.1 meters

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.

**KCYS.
1340
DIAL**

1330 kilocycles 225.4 meters

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 (.2.5)	Sioux City, Iowa. C—7:30-11:00
WDRC	ae	1000	CH	Hartford, Conn. E—8:00-mid.
WSAI	ak	1000	R (2.5)	Cincinnati, Ohio. E—8:00-mid.
WTAQ	ae	1000	1C	Eau Claire, Wis. C—7:00-8:00

1340 kilocycles 223.7 meters

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

**CUT OUT
ON DOTTED LINES**

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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
WEHC	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.
KGIR	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	ae	100	.....	Wilmington, N. C.	E—7:30-mid.
WRDO	ae	100	.....	Augusta, Maine.	E—9:00-1:00; 4:30-8:30
WRJN	ae	100	.....	Racine, Wis.	C—9:00-2:30; 4:00-10:30
WSVS	ak	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
KQV	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
 HIH ak 15 1395
 KLRA ae 1000 C
 KOY ae 500 (1)
 WHK ae 1000 C(2.5)

Middlechurch, Man. C
 San Pedro de Macoris, D. R. L-12:15-2:00
 Little Rock, Ark. C-7:00-mid.
 Phoenix, Ariz. M
 Cleveland, Ohio. E-7:00-mid.

1400 kilocycles 214.2 meters

KLO ah 500 C
 KTUL z 250 (.5)
 WARD ak 500 1
 WBAA z 500 1
 WBBC ae 500 2
 WKBF ak 500 1N
 WLTH ak 500 2
 WVFV ak 500 2
 XEFV ae 100

Ogden, Utah. M-8:30-10:30
 Tulsa, Okla. C
 Brooklyn, N. Y. E
 Lafayette, Ind. C-Silent
 Brooklyn, N. Y. E-7:11:30; 6-7:30
 Indianapolis, Ind. C-6:00-mid.
 Brooklyn, N. Y. E-11:30-1:30; 7:30-9
 Brooklyn, N. Y. E
 Jaurex, Chin. C-9:00-3:00; 5:00-11:00

1410 kilocycles 212.6 meters

CKFC ak 50 5
 CKMO z 100 5
 CMCH ak 50
 CMCM z 15
 KFLV ak 500 4
 KGRS ae 1000 1
 WAAB ae 500 CH
 WBCM ae 500 K
 WDAG ae 1000 1
 WHBL ae 500 4
 WHIS ak 250 2
 WODX ae 500 3C
 WRBX ae 250 2
 WSFA ck 500 3C

Vancouver, B. C. P-3-4:30; 8:30-10:30
 Vancouver, B. C. P-7:30-3; 4:30-11
 Havana, Cuba. E
 Havana, Cuba. E
 Rockford, Ill. C-9-12:30; 4-6; 8:30-mid.
 Amarillo, Texas. C-6-8; 10-12:30; 3-4:30; 6-7; 9-10
 Boston, Mass. E-8:30-mid.
 Bay City, Mich. E-8:00-mid.
 Amarillo, Texas. C-8-10; 12:30-3; 4:30-6; 7:30-9; 10-mid.
 Sheboygan, Wis. C-7-10; 12:30-3; 6-8; 10-mid.
 Bluefield, W. Va. E-7:00-9:00; noon-3:00; 6:00-8:00
 Mobile, Ala. C-7:00-6:15; 7:45-10:30
 Roanoke, Va. E
 Montgomery, Ala. C-6:00-7:45

1420 kilocycles 211.1 meters

CKGB z 100
 KABC ak 100
 KBPS aj 100 4
 KCMC ak 100
 KFIZ ak 100
 KFFF ak 100
 KGCC ak 100
 KGIW ak 100
 KGIX ak 100
 KICK z 100
 KIDW z 100 1
 KORE ae 100
 KUMA ak 100
 KWCR ak 100 B(.25)
 KXL ae 100 4
 WACO ak 100 C
 WAGM ae 100
 WAMC ae 100
 WAZL ak 100 2
 WEED ak 100 D
 WEHS ak 100 a
 WELL ak 50
 WENC ak 100 DY
 WHDL ae 100 D
 WHFC ae 100 a
 WILM aj 100 2
 WJBO z 100 D
 WJMS ak 100
 WKBI ak 100
 WLBFB ak 100
 WMAS ak 100 CH(.25)
 WMBC ag 100 (.25)
 WMBH ak 100 (.25)
 WNRA ak 100 D
 WPAD ak 100
 WSPA ae 100 (.25)
 WTBO ae 100 (.25)

Timmons, Ont. E
 San Antonio, Texas. C-6:00-mid.
 Portland, Ore. P-11:00-12:30; 3:00-5:00
 Texarkana, Ark. C-7:00-2:00; 4:00-9:00
 Fond du Lac, Wis. C-10:00-1:00; 4:00-10:00
 Shawnee, Okla. C-7:30-3:00; 5:00-9:00
 San Francisco, Calif. P-9:00-1:00; 4:00-9:00
 Alamosa, Colo. M
 Las Vegas, Nev. M
 Carter Lake, Iowa. C-(Mail returned)
 Lamar, Colo. M-8:00-10:00; 7:00-10:00
 Eugene, Ore. P-7:45-9:00
 Yuma, Ariz. M-7:00-9:00; 11:00-2:00; 6:00-10:00
 Cedar Rapids, Iowa. C-7:00-Mid.
 Portland, Ore. P-7:00-1:00
 Waco, Texas. C-8:00-2:00; 5:00-10:30
 Presque Isle, Maine. E-11:00-1:00; 4:00-7:00
 Anniston, Ala. C-7:00-9:00
 Hazelton, Pa. E-11:00-9:00
 Greenville, N. C. E-9:00-6:00
 Cicero, Ill. C-4:00-6:00
 Battle Creek, Mich. E-9:00-9:30
 Americus, Ga. C-7-6:15
 Tupper Lake, N. Y. E
 Cicero, Ill. C-7:00-1:30; 6:00-9:00; 11:00-1:00
 Wilmington, Del. E-7:00-11:00; 2:00-5:00; 9:00-mid.
 Baton Rouge, La. C
 Ironwood, Mich. C-7:30-1:30; 4:30-7:00
 Cicero, Ill. C-1:30-4:00
 Kansas City, Kans. C-7:00-11:00
 Springfield, Mass. E-8:00-mid.
 Detroit, Mich. E-7:30-mid.
 Joplin, Mo. C-7:30-2:00; 6:00-9:30
 Muscle Shoals, Ala. C-7:00-10:00
 Paducah, Ky. C
 Spartanburg, S. C. E-7:30-2:00; 4:00-9:30
 Cumberland, Md. E-9:00-7:00

1430 kilocycles 209.7 meters

KECA ak 1000 N

Los Angeles, Calif. P-7:00-11:00

**KCY5.
 1430
 DIAL**

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With Tuesday's Time on the Air

KGNF	ak	500	D	North Platte, Neb.	C—7:00-sunset
WBAC	ak	500	1 (1)	Harrisburg, Pa.	E
WCAH	ae	500	1C	Columbus, Ohio.	E—8:00-mid.
WFEA	ae	500	CH	Manchester, N. H.	E—7:30-11:00
WHCC	ae	500	C	Rochester, N. Y.	E
WHP	ak	500	1C(1)	Harrisburg, Pa.	E—8:30-10:30; 11:30-1:30; 2:30-4:00; 4:30-1:00
WNBR	ae	500	(1).....	Memphis, Tenn.	C—8:00-1:00; 3:00-10:10
WOKO	ae	500	C	Albany, N. Y.	E—7:30-1:00

1440 kilocycles 208.2 meters

CMBL	ak	200	1445	Havana, Cuba.	E—Mail returned
KDFN	ak	500	.....	Casper, Wyo.	M—7:30-2:00; 3:30-9:00
KLS	ae	250	D	Oakland, Calif.	P—8:00-sunset
KXYZ	ak	250	.....	Houston, Texas.	C—6:30-1:00; 2:30-11:00
TIFS	z	7.5	1441	Cartago, C. R.	L
WBIG	ae	500	C(1)	Greensboro, N. C.	E—8:00-11:00
WBCA	aj	250	a	Allentown, Pa.	E—7:30-mid.
WMBD	ae	500	3C(1)	Peoria, Ill.	C—6:00-11:00; 8:00-mid.
WSAN	aj	250	a	Allentown, Pa.	E—7:30-mid.
WTAD	ak	500	3	Quincy, Ill.	C—11:00-8:00

1450 kilocycles 206.8 meters

CFCT	ae	50	.....	Victoria, B. C.	P—8:00-12:30; 6-8; mid.-2:00
CKX	ak	500	F	Brandon, Man.	C—7:00-10:30
KTBS	ck	1000	N	Shreveport, La.	C—7:00-mid.
TIEP	z	7.5	.....	San Jose, C. R.	L
WGAR	ak	500	B(1)	Cleveland, Ohio.	E—6:30-1:00
WHOM	ae	250	.....	Jersey City, N. J.	E—8:00-mid.
WSAR	ae	250	.....	Fall River, Mass.	E—8:00-3:30; 5:00-10:00
WTFI	ak	500	.....	Athens, Ga.	E—8:00-9:00
XEAB	ak	7.5	.....	Neuvo Laredo, Tams.	C—10:00-3:00; 4:00-7:00

1460 kilocycles 205.4 meters

KJSTP	ae	10000	N (25)	St. Paul, Minn.	C—6:45-12:30
WJSV	ak	10000	C	Washington, D. C.	E—6:30-mid.

1470 kilocycles 204.0 meters

KGA	ak	5000	N	Spokane, Wash.	P—6:00-mid.
WLAC	ae	5000	C	Nashville, Tenn.	C—7:00-mid.

1480 kilocycles 202.6 meters

CMBK	z	15	1485	Havana, Cuba.	E
KOMA	ak	5000	C	Oklahoma City, Okla.	C—6:30-mid.
WKBW	ae	5000	C	Buffalo, N. Y.	E—10:00-1:00

1490 kilocycles 201.2 meters

WCKY	ae	5000	BY	Covington, Ky.	E—7:00-mid.
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1500 kilocycles 199.9 meters

CRCS	z	100	F	Chicoutimi, Que.	E—6:30-11:30
KDB	ak	100	CT	Santa Barbara, Calif.	P—7:30-mid.
KGFI	ak	100	(.25)	Corpus Christi, Tex.	C—7:00-3:00; 6:00-10:00
KGFK	ak	100	.....	Moorhead, Minn.	C—8:00-9:00
KGKB	ak	100	.....	Tyler, Texas.	C—8:00-10:00; noon-2:00; 5:00-6:00; 7:30-9:00
KGKY	ck	100	.....	Scottsbluff, Neb.	M—9:00-1:30; 5:30-9:00
KNOW	ak	100	.....	Austin, Texas.	C—7:30-2:00; 4:00-10:00
KPJM	ak	100	.....	Prescott, Ariz.	M—7:00-8:00
KPO	aj	100	.....	Wenatchee, Wash.	P—7:00-10:00
KREG	ak	100	.....	Santa Ana, Calif.	P—9:00-11:00
KXO	al	100	.....	El Centro, Calif.	P—7:00-2:00; 4:00-9:00
WCNW	ak	100	1	Brooklyn, N. Y.	E—2:00-6:00
WFDW	ak	100	.....	Rome, Ga.	C—7:00-10:00; noon-3:00; 6:00-9:00
WHEF	z	100	P (.25)	Kosciusko, Miss.	C
WKBB	ae	100	.....	East Dubuque, Ill.	C—7:00-10-15; 11:45-1:30; 5:30-9:00
WKBV	z	100	.....	Richmond, Ind.	C
WKBB	ak	100	.....	Ludington, Mich.	E—9:00-9:00
WKEU	ak	100	.....	LaGrange, Ga.	C—10:00-noon; 3:00-6:00
WMBQ	ae	100	1	Brooklyn, N. Y.	E—9:00-11:00; 8:00-mid.
WMPC	ak	100	.....	Lapeer, Mich.	E—10:00-2:00; 3:30-6:00; 7:00-10:30
WNBQ	ae	100	.....	Binghamton, N. Y.	E—7:30-10:00
WOPI	ae	100	.....	Bristol, Tenn.	E—7:00-2:00; 3:00-8:00
WPEN	ck	100	(.25)AZ	Philadelphia, Pa.	E—7:30-10:00
WRDW	ae	100	.....	Augusta, Ga.	E
WSYB	ae	100	.....	Rutland, Vt.	E—10:00-1:00; 5:00-9:00
WWRL	ak	100	1	Woodslee, 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.

ALABAMA	Fresno	CONNECTICUT	Twin Falls
Anniston	KMJ 580 500 C	Bridgeport	KTFI 1240 1000
WAMC 1420 100	Glendale	WICC 600 250 C	ILLINOIS
Birmingham	KIEV 850 100	Hartford	Carthage
WAPT 1140 5000 N	Hollywood	WDRS 1330 1000 C	WCAZ 1070 50
WBRC 930 500 C	KFWB 950 1000	WTIC 1060 5000 R	Chicago
WKBC 1310 100	KMTR 570 500	Storrs	KYW 1020 10000 N
WHET 1370 100	KNNX 1050 25000	WCAC 600 250	WAAF 920 500
Gasden	Long Beach	DELAWARE	WBBM 770 25000 C
WJBY 1210 100	KFOK 1250 1000	Wilmington	WCFL 970 1500 B
Huntsville	KGER 1360 1000	WDEL 1120 250	WCRW 1210 100
WBHS 1200 100	Los Angeles	WILM 1420 100	WEDC 1210 100
Mobile	KECA 1430 1000 N	DISTRICT OF COLUMBIA	WENR 870 50000 N
WODX 1410 500 C	KFAC 1300 1000	Washington	WGES 1360 500
Montgomery	KFAI 640 50000 N	WJSV 1460 10000 C	WGN 720 50000
WSFA 1410 500 C	KFSG 1120 500	WMAL 630 250 B	WJJD 1130 20000
Muscle Shoals	KFVD 1000 250	WOL 1310 100	WLS 870 50000 N
WNRA 1420 100	KGFJ 1200 100	WRC 950 500 R	WMAQ 670 5000 N
ALASKA	KHI 900 1000 C	FLORIDA	WMBI 1080 5000
Anchorage	KTRK 1120 500	Clearwater	WWSB 1210 100
KFQD 600 250	KTM 780 500	WFLA 620 1000 N	Cicero
Juneau	Oakland	Gainesville	WEHS 1420 100
KIFH 1310 100	KLS 1440 250	WRUF 830 5000	WHFC 1420 100
Ketchikan	KLX 880 1000	Jacksonville	WKBI 1420 100
KGBU 900 500	KROW 930 500	WJAX 900 1000 N	Decatur
ARIZONA	Pasadena	Miami	WJBL 1200 100
Jerome	KPPC 1210 50	WIOD 1300 1000 N	East Dubuque
KCRJ 1310 100	Sacramento	WQAM 560 1000 C	WKBB 1500 100
Lowell	KFBK 1310 100 C	Orlando	Harrisburg
KSNL 1200 100	San Bernardino	WDBO 580 250 C	WEBQ 1210 100
Phoenix	KFXM 1210 100	Pensacola	Joliet
KOY 1390 500	San Diego	WCOA 1340 500	WCLS 1310 100
KTAR 620 500 N	KFSD 600 1000 N	St. Petersburg	LaSalle
Prescott	KGB 1330 1000 C	WSUN 620 1000 N	WJBC 1200 100
KPJM 1500 100	San Francisco	Tampa	Peoria
Tucson	KFRC 610 1000 C	WDAE 1220 1000 C	WMBD 1440 500 C
KGAR 1370 100	KFWI 930 500	WMBR 1370 100	Quincy
KVOA 1260 500	KGGC 1420 100	GEORGIA	WTAD 1440 500
Yuma	KGO 790 7500 N	Americus	Rockford
KUMA 1420 100	KJBS 1070 100	WENC 1420 100	KFLY 1410 500
ARKANSAS	KPO 680 50000 N	Athens	Rock Island
Blytheville	KTAB 560 1000	WTFI 1450 500	WHBF 1210 100
KLCN 1290 100	KYA 1230 1000 N	Atlanta	Springfield
Fayetteville	San Jose	WGST 890 250 C	WCSB 1210 100
KUOA 1260 1000	KOW 1010 500	WJTL 1370 100	WTAX 1210 100
Fort Smith	Santa Ana	WSB 740 50000 N	Tuscola
KFPW 1210 100	KREG 1500 100	Augusta	WDZ 1070 100
Hot Springs	Santa Barbara	WRDW 1500 100	Will
KTHS 1040 10000 N	KDB 1500 100 C	Columbus	Zion
..... 1500 100	Stockton	WRBL 1200 100	WCBD 1080 5000
Jonesboro	KGDM 1100 250	LaGrange	INDIANA
KBTM 1200 100	KWG 1200 100 C	WKEU 1500 100	Anderson
LITTLE ROCK	COLORADO	Macon	WHBU 1210 100
KARK 890 250	Alamosa	WMAZ 1180 500	Eikhart
KGHI 1200 100	KGIW 1420 100	Rome	WTRC 1310 50
KLRA 1390 1000 C	Colorado Springs	WFDV 1500 100	Evansville
Texarkana	KVOR 1270 1000 C	Savannah	WCBF 630 500
KCMC 1420 100	Denver	WTOC 1260 500 C	Fort Wayne
CALIFORNIA	KFEL 920 500	Thomasville	WGL 1370 100 C
Bakersfield	KFXF 920 500	WQDX 1210 100	WOWO 1160 10000 C
KERN 1200 100 C	KLZ 560 1000 C	HAWAII	Gary
Berkeley	KOA 830 12500 N	Hilo	WIND 560 1000 C
KRE 1370 100	KPOF 880 500	KWVF 1210 100	Hammond
Beverly Hills	Grand Junction	Honolulu	WVAE 1200 100
KMPK 710 500	KFXJ 1200 100	KGMB 1320 250 C	Indianapolis
Burbank	Greeley	KGU 750 2500 N	WFBM 1230 1000 C
KELW 780 500	KPKA 880 500	IDAHO	WKFB 1400 500 N
El Centro	Lamar	Boise	Muncie
KXO 1500 100	KIDW 1420 100	KIDO 1350 1000	WLBC 1310 100
Eureka	Pueblo	Idaho Falls	Richmond
KIEM 1210 100	KGHF 1320 250	KID 1320 250	WKBV 1500 100
	Yuma	Nampa	South Bend
	KGEK 1200 100	Pocatello	WFAM 1200 100 C
		KSEI 890 250	

INDEX BY LOCATIONS

WSBT 1230 500 C	KWEA 1210 100	MINNESOTA	KFOR 1210 100
Terre Haute	KWKH 850 10000	Fergus Falls	Norfolk
WBOW 1310 100	MAINE	→KGDE 1200 100	WJAG 1060 1000
West Lafayette	Augusta	→MINEAPOLIS	North Platte
WBAA 1400 500	WRDO 1370 100	→WCCO 810 50000 C	→KGNF 1430 500
IOWA	Bangor	→WDGY 1180 1000	Omaha
Ames	WABI 1200 100	→WLB 1250 1000	→WAAW 660 500
→WOI 640 5000	WLBZ 620 500 C	→WRHM 1250 1000	→WOW 590 1000 R
Boone	Portland	Moorhead	Scottsbluff
→KFGQ 1310 100	→WCSH 940 1000 R	→KGFK 1500 100	KGKY 1500 100
Carter Lake	WLEC 1340 250	Northfield	York
KICK 1420 100	Presque Isle	→WCL 1250 1000	→KGBZ 930 500
Cedar Rapids	WAGM 1420 100	St. Paul	
→KWC 1420 100 B	MARYLAND	→KSTP 1460 10000 N	NEVADA
Council Bluffs	Baltimore	MISSISSIPPI	Las Vegas
→KOIL 1260 1000 B	→WBAL 1060 10000 B	Greenville	KGIX 1420 100
Decorah	WCAO 600 250 C	WKFI 1210 100	→KOH 1380 500 C
→KGC 1270 100	WCBM 1370 100	Hattiesburg	NEW HAMPSHIRE
→KWLC 1270 100	→WFB 1270 500 R	→WPBE 1370 100	Manchester
Des Moines	Cumberland	Jackson	WFEA 1430 500 C
KSO 1370 100 B	WTBO 1420 100	→WJDJ 1270 1000 N	Portsmouth
→WOC 1000 50000 R	Hagerstown	Kosciusko	WHEB 740 250
→WHO	WJEL 1210 100	WHEF 1500 100	NEW JERSEY
Iowa City	MASSACHUSETTS	Laurel	Asbury Park
→WSUI 880 500	Babson Park	→WAML 1310 100	WCAP 1280 500 A
Marshalltown	WBSO 920 500	Meridian	Atlantic City
→KFJB 1200 100	Boston	→WCOC 880 500	→WPG 1100 5000 C
Ottumwa	WAAB 1410 500 C	→WCM 1210 100	Camden
→WIAS 1310 100	WBZ 990 50000 B	Tupelo	WCAM 1280 500
Shenandoah	WEEL 590 1000 R	WJEM 990 500	Jersey City
→KFNF 890 500	WHDH 830 1000	Vicksburg	WAAT 940 300
→KMA 930 500	WNAC 1230 1000 C	→WQBC 1360 500	WHOM 1450 250
Sioux City	Chelsea	MISSOURI	Newark
→KSCJ 1330 1000 C	..... 1500 100	Cape Girardeau	WGCP 1250 1000
Waterloo	Fall River	→KFVS 1210 100	WNEW 1250 1000
→WMT 600 500 C	WSAR 1450 250	Columbia	→WOR 710 5000
KANSAS	Lexington	→KFRU 630 500	Red Bank
Ablene	WLEY 1370 100	→WOS 630 500	WJBI 1210 100
→KFBI 1050 5000	New Bedford	Woplin	Trenton
Coffeyville	WNBH 1310 100	→WMBH 1420 100	WINJ 1280 500
→KGGF 1010 500	Springfield	Kansas City	Zarephath
Dodge City	WEZA 990 1000 B	→KMBC 950 1000 C	WAWZ 1350 250
→KGN 1340 250	WMAS 1420 100 C	→KWKC 1370 100	NEW MEXICO
Kansas City	Worcester	→WDAF 610 1000 R	Albuquerque
→WLB 1420 100	WORC 1280 500 C	→WHB 860 500	→KGGM 1230 250
Lawrence	WTAG 580 750 R	→WOO 1300 1000	→KOB 1180 10000
→KFKU 1220 500	MICHIGAN	St. Joseph	Clovis
→WREN 1220 1000 B	Battle Creek	→KFEQ 680 2500	→KICA 1370 100
Manhattan	WELL 1420 50	St. Louis	Roswell
→KSAC 580 500	Bay City	KFUO 550 500	→KGFL 1370 100
Topeka	→WBCM 1410 500	→KMOX 1090 50000 C	NEW YORK
→WIBW 580 1000 C	Calumet	→KSD 550 500 R	Albany
→KFH 1300 1000 C	→WHDF 1370 100	→KWK 1350 1000 B	WOKO 1430 500 C
KENTUCKY	Detroit	→WEW 760 1000	Auburn
Covington	→WJBK 1370 50	→WIL 1200 100	WMBO 1310 100
→WCKY 1490 5000 B	→WJR 750 10000 B	Springfield	Binghamton
Louisville	WMBC 1420 100	→KGBX 1310 100	WBNF 1500 100
→WAVE 940 1000	→WJ 920 1000 R	KTWO 560 500	Brooklyn
→WHAS 820 50000 C	WXYZ 1240 1000	MONTANA	WARD 1400 500
WLAP 1200 100	East Lansing	Billings	→WBBC 1400 500
Paducah	WKAR 1040 1000	→KGHL 950 1000 N	WBBR 1300 1000
→WPAD 1420 100	Flint	Butte	WCNW 1500 100
LOUISIANA	WFDF 1310 100	→KGR 1360 500 N	WLTH 1400 500
Baton Rouge	Grand Rapids	Great Falls	WMBQ 1500 100
WJBO 1420 100	→WASH 1270 500	→KFBB 1280 1000	WVFW 1400 500
Monroe	WOOD 1270 500	Kalispell	Buffalo
→KMLB 1200 100	Ironwood	→KGEZ 1310 100	WBEN 900 1000 R
New Orleans	→WJMS 1420 100	Missoula	→WEBR 1310 100
→WBBX 1200 100	Jackson	→KGVO 1200 100	WGR 550 1000 C
→WDSU 1250 1000 C	→WIBM 1370 100	Wolf Point	WKBW 1480 5000 C
→WJBW 1200 100	Kalamazoo	KGCB 1310 100	WVSV 1370 50
→WSMB 1320 500 N	WKZO 590 1000	NEBRASKA	Canton
→WWL 850 10000	Lapeer	Clay Center	→WCAD 1220 500
Shreveport	→WMPC 1500 100	→KMMJ 740 1000	Chester
→KRMD 1310 100	Ludington	Kearney	WGNV 1210 100
→KTBS 1450 1000 N	→WKBZ 1500 100	KGFW 1310 100	Elmira
	Marquette	Lincoln	→WESG 1040 1000
	→WBEO 1310 100	→KFAB 770 5000 C	
	Royal Oak		
	→WEXL 1310 50		

INDEX BY LOCATIONS

Freeport	Canton	Grove City	Sloux Falls
WGBB 1210 100	WHBC 1200 100	WSAJ 1310 100	KSOO 1110 1000
Hudson Falls	Cincinnati	Harrisburg	Vermillion
WGLC 1370 100 C	WFBE 1200 100	WBAK 1430 1000	KUSD 890 500
Jamestown	WKRC 550 1000 C	WHP 1430 500 C	Watertown
WOCL 1210 50	WLW 700 5000 N	WKBO 1200 100	KGCR 1210 100
New York	WSAI 1330 1000 R	Hazleton	Yankton
WABC 860 50000 C	Cleveland	WAZL 1420 100	WNAX 570 1000 C
WBNX 1350 250	WGAR 1450 500 B	Johnstown	TENNESSEE
WBOQ 860 50000	WHK 1390 1000 C	WJAC 1310 100	Bristol
WEAF 660 50000 R	WJAY 610 500	Lancaster	WOPI 1500 100
WEVD 1300 500	WTAM 1070 50000 R	WGL 1310 100	Chattanooga
WFAB 1300 1000	Columbus	WKJC 1200 100	WDOD 1280 1000 C
WHN 1010 250	WAIU 640 500	Philadelphia	Jackson
WINS 1180 500	WCAH 1430 500 C	WCAU 1170 50000 C	WTJS 1310 100
WJZ 760 50000 B	WOSU 570 750	WDAS 1370 100	Knoxville
WLWL 1100 5000	WSEN 1210 100	WFI 560 500 R	WNOX 560 1000 C
WMCA 570 500	Dayton	WHAT 1310 100	WROL 1310 100
WNYC 810 500	WSMK 1380 200	WLIT 610 500 C	Memphis
WOV 1130 1000	Mount Orab	WPEN 1500 100	WHBQ 1370 100
WPAP 1010 250	WHBD 1370 100	WRAX 1020 250	WMC 780 500 N
WQAO 1010 250	Toledo	WTEL 1310 100	WNBR 1430 500
WRNY 1010 250	WSPD 1340 1000 C	Pittsburgh	WREC 600 500 C
Rochester	Youngstown	KDKA 980 50000 B	Nashville
WHAM 1150 50000 B	WKEN 570 500 C	KQV 1380 500 C	WLAC 1470 5000 C
WHEC 1430 500 C	Zanesville	WCAE 1220 1000 R	WWSM 650 50000 N
Saranac Lake	WALR 1210 100	WJAS 1290 1000 C	Springfield
WNBZ 1290 50	OKLAHOMA	WWSW 1500 100	WSIX 1210 100
Schenectady	Elk City	Reading	TEXAS
WGY 790 50000 R	KASA 1210 100	WBEU 830 1000	Amarillo
Syracuse	Enid	WRAP 1310 100	KGRS 1410 1000
WFBL 1360 1000 C	KCRC 1370 100	Scranton	WDAG 1410 1000
WSYR 570 250 B	Norman	WGBI 880 250	Austin
Troy	WNAD 1010 500	WQAN 880 250	KNOW 1500 100
WHAZ 1300 500	Oklahoma City	Silverhaven	Beaumont
WHDL 1420 100	KFXR 1310 100	WNBO 1200 100	KFDM 560 500
Utica	KCFG 1370 100	Sunbury	Brownsville
WIBX 1200 100	KOMA 1480 5000 C	WKOK 1210 100	KWWG 1260 500
White Plains	WKY 900 1000 N	Wilkes-Barre	College Station
WFAS 1210 100	Ponca City	WBAX 1210 100	WTAW 1120 500
Woodside	WBYB 1200 100	WBR 1310 100	Corpus Christi
WWRL 1500 100	Shawnee	Williamsport	KGFT 1500 100
NORTH CAROLINA	KCFE 1420 100	WRAC 1370 100	Dallas
Asheville	Tulsa	York	KRLD 1040 10000 C
WUNC 570 1000 N	KTUL 1400 250	WORK 1000 1000	WFAA 800 50000 N
Charlotte	KVOO 1140 25000 N	PHILIPPINES	WRR 1280 500 C
WBT 1080 50000 C	OREGON	Manila	Dublin
WSOC 1210 100 N	Corvallis	KZEG 618.5 1000	KFPL 1310 100
Greensboro	KOAC 550 1000	KZRM 618.5 50000	El Paso
WBJG 1440 500 C	Eugene	PORTO RICO	KTSM 1310 100
Greenville	KORE 1420 100	San Juan	WDAH 1310 100
WEED 1420 100	Klamath Falls	WKAA Q 1240 1000	Fort Worth
Raleigh	KFJI 1210 100	..... 1290 500	KFJZ 1370 100
WPTF 680 5000 N	Marshfield	RHODE ISLAND	KTAT 1240 1000 C
Wilmington	KOOS 1370 100	Providence	WBAP 800 50000 N
WRAM 1370 100	Medford	WEAN 780 500 C	Galveston
Winston-Salem	KMED 1310 100	WJAR 890 500 R	KLUF 1370 100
WSJS 1310 100 C	Portland	WPRO 1210 100	Greenville
NORTH DAKOTA	KALE 1300 500 C	SOUTH CAROLINA	KFPM 1310 15
Bismarck	KBPS 1420 100	Charleston	Harrison
KFYR 550 1000 N	KEX 1180 5000 N	WCSC 1360 500	KRGV 1260 500
Devils Lake	KFJR 1300 500	Columbia	Houston
KDLR 1210 100	KGW 620 1000 N	WIS 1010 500 N	KPRC 920 1000 N
Fargo	KOIN 940 1000 C	Greenville	KTRH 1120 1000 C
WDAY 940 1000 N	KWJJ 1060 500	WFBC 1200 100	KXYZ 1440 250
Grand Forks	KXL 1420 100	Spartanburg	Lubbock
KFJM 1370 100	PENNSYLVANIA	WSPA 1420 100	KFYO 1310 100
Mandan	Allentown	SOUTH DAKOTA	San Angelo
KGCV 1240 250	WCBA 1440 250	Brookings	KGKL 1370 100
Minot	WSAN 1440 250	KFDY 550 500	San Antonio
KLPM 1240 250	Altouana	Huron	KABC 1420 100
OHIO	WFBG 1310 100	KGDY 1340 250	KMAC 1370 100
Akron	Carbondale	Pierre	KONO 1370 100
WADC 1320 1000 C	WNEW 1200 10	KGFX 630 200	KTSA 1290 1000 C
WJW 1210 100	Erie	Rapid City	WOAJ 1190 50000 N
	WLBW 1260 500 C	WCAT 1200 100	Tyler
	Glenside		KGKB 1500 100
	WIBG 970 100		Waco
			WACO 1420 100 C

INDEX BY LOCATIONS

Wichita Falls
 -KGKO 570 250

UTAH

Ogden
 KLO 1400 500 C

Salt Lake City
 -KDYL 1290 1000 N
 -KSL 1130 50000 C

VERMONT

Burlington
 WCAX 1200 100

Rutland
 WSYB 1500 100

St. Albans
 WQDM 1370 100

Springfield
 WNBX 1260 250

Waterbury
 WDEV 550 500

VIRGINIA

Arlington
 NAA 690 1000

Charlottesville
 -WEHC 1350 500

Danville
 -WBTM 1370 100

Lynchburg
 WLVA 1370 100

Newport News
 -WGH 1310 100

Norfolk
 WTAR 780 500 C

Petersburg
 -WPHR 1200 100

Richmond
 -WBBL 1210 100
 WMBG 1210 100 C
 -WRVA 1110 50000 N

Roanoke
 WDBJ 930 250 C
 -WRBX 1410 250

WASHINGTON

Aberdeen
 KXRO 1310 100

Bellingham
 KVOS 1200 100

Everett
 KFBL 1370 50

Olympia
 KGY 1210 100

Pullman
 -KWSC 1220 1000

Seattle
 -KJR 970 5000 N
 KOL 1270 1000 C
 KOMO 920 1000 N
 -KPCE 650 100
 KRSC 1120 100
 KTW 1220 1000
 -KVL 1370 100
 -KXA 760 250

Spokane
 KFIO 1120 100
 -KFPY 1340 1000 C
 KGA 1470 5000 N
 KHQ 590 1000 N

Tacoma
 KMO 1330 250
 KVI 570 500 C

Walla Walla
 KUJ 1370 100

Wenatchee
 KPQ 1500 100

Yakima
 KIT 1310 100

WEST VIRGINIA

Bluefield
 -WHIS 1410 250

Charleston
 -WOBU 580 750

Fairmont
 -WMMN 890 250

Huntington
 WSZA 1190 1000

Wheeling
 -WVVA 1160 5000 C

WISCONSIN

Eau Claire
 -WTAQ 1330 1000 C

Fond du Lac
 -KFIZ 1420 100

Green Bay
 -WHBY 1200 100

Janesville
 -WCLO 1200 100

LaCrosse
 WKBB 1380 1000 C

Madison
 -WHA 940 1000
 -WIBA 1280 500 N

Manitowoc
 WOMT 1210 100

Milwaukee
 -WHAD 1120 250 C
 -WISN 1120 250 C
 -WTMJ 620 1000 N

Poynette
 -WIBU 1210 100

Racine
 WRJN 1370 100

Sheboygan
 -WHBL 1410 500

Stevens Point
 -WLBEL 900 2500

Superior
 -WEBC 1290 1000 N

WYOMING

Casper
 -KDFN 1440 500

CANADA

ALBERTA

Calgary
 CFAC 930 100
 CFCN 1030 10000 F
 CJCJ 690 100

Edmonton
 CFTP 1120 100
 CJCA 730 1000 F
 CKUA 580 500

Lethridge
 CJOC 840 100 F

BRT. COLUMBIA

Chilliwack
 CHWK 780 100 F

Kamloops
 -CFJC 1310 100 F

Kelowna
 CKOV 1210 50 F

Trail
 CJAT 1200 50

Vancouver
 -CFOR 600 500
 CKCD 1010 100
 -CKFC 1410 50
 CKMO 1410 100
 -CKWX 1100 100
 CRCV 1100 1000 F

Victoria
 -CFCT 1450 50

MANITOBA

Brandon
 -CKX 1450 500 F

Middlechurch
 CJRC 1390 100

Winnipeg
 CKY 910 5000 F

NEW BRUNSWICK

Fredericton
 CFNB 1030 500 F

St. John
 CFBO 1210 100 F
 CHPR 1370 100

NOVA SCOTIA

Glace Bay
 VAS 685 2000

Halifax
 CHNS 1050 500 F

Sydney
 CJCB 880 50 F

Wolfville
 CKIK 1010 50

Yarmouth
 CJLS 1310 100

ONTARIO

Brantford
 -CKPC 930 100 F
 10-BQ 1200 15

Chatham
 CFCO 600 50 F

Cobalt
 CKMC 1210 50

Fort William
 CKPR 780 50 F

Hamilton
 CHML 1010 50
 CKOC 1120 500 F

Kingston
 CFRC 7510 100

Kirkland Lake
 CJKL 1310 100

Kitchener
 CKCR 1510 100

London
 CFPL 730 100 F

North Bay
 CFCH 930 100 F

Ottawa
 CKCO 1010 100
 CRCO 880 1000 F

Prescott
 CFLC 930 100

St. Catharines
 CKTB 1200 100

Stratford
 10-AK 1200 15

Sudbury
 CJCS 780 500

Timmins
 CKGB 1420 100

Toronto
 -CFRB 690 10000 C
 CKCL 580 100
 -CRCT 960 5000 N
 CKNC 1030 100 F

Windsor
 -CKLW 840 5000 C

Wingham
 10-BP 1200 15

PRINCE EDWARD ISLAND

Charlottetown
 CFCY 630 500 F
 CHCK 1310 50

Summerside
 CHGS 1120 50 F

QUEBEC

Chicoutimi
 CRCS 1500 100 F

Hull
 CKCH 1210 100 F

Montmagny
 VE9EK 1195 10

Montreal

CFCF 600 500 N
 CHLP 1120 100
 CKAC 730 5000 C
 CRGM 910 5000 F

New Carlisle

CHNC 1210 100 F

Quebec

CHRC 930 100 F
 CKCV 1310 50

SASKATCHEWAN

Canora
 10-BU 1200 15

Fleming
 CJRW 540 500 F

Moose Jaw
 -CHAB 1200 100

Prince Albert
 -CJRM 540 1000 F

CKBI 1210 100

Regina

CHWC 1010 500 F
 -CKKC 1010 500 F

Saskatoon

-CFQC 1230 500 F

Yorkton

CJGX 630 500 F

NEWFOUNDLAND

St. John's

VOAC 800 40
 VOAS 810 100
 VOGY 950 75
 VOKW 1085 30
 VONF 1195 400
 VOWR 900 500

MIQUELON

St. Pierre
 FQN 572 250

CENTRAL AMERICA

COSTA RICA

Cartago
 TIFS 1441 7.5
 TIGA 1014 30

San Jose

TICR 912 75
 TIEA 833 7.5
 TIEP 1450 7.5
 TIFB 714 30
 TIGP 800 75
 TIRCA 1100 500
 TISO 550 250
 TITV 999 7.5
 TIVL 869 30
 TIXA 614 7.5

GUATEMALA

Guatemala City
 TGW 1350 500
 TGV 1380 75

EL SALVADOR

San Salvador
 RUS 664 500

MEXICO

AGUASCALIENTES

Aguascalientes
 XFC 805 350

BAJA CALIFORNIA

Mexicali

XEAO 560 100

Tijuana

-XEAE 980 800
 XEOK 757 5000

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Chihuahua	
XEFI	1260 250
Juarez	
-XEFV	1400 100
XEJ	1015 500
COAHUILA	
Piedras Negras	
-XEPN	585 75000
Saltillo	
XEL	1000 40
Torreón	
XETB	1380 125
Villa Acuna	
-XER-	735 150000
XEF	
D. F.	
Mexico City	
XEAI	1090 100
XEB	1030 10000
XEFA	1250 500
XEFB	1085 500
XEFZ	1370 100
XEK	990 100
XEN	711 1000
XEO	940 5000
XEP	780 500
XETW	830 500
XETZ	1210 50
XEWV	1100 250
-XEW	010 5000
XEYZ	760 10000
XFG	638 2000
XFO	940 5000
XFX	840 500
Toluca	
XEC	1000 50
HIDALGO	
Pachuca	
XETU	890 100
JALISCO	
Guadalajara	
XEA	1000 250
XED	1155 500
MICHOACAN	
Morelia	
XEI	1310 250

NUEVO LEON	
Monterrey	
KEFB	1315 100
XEFJ	1090 100
XEH	1132 250
XET	690 500
XEX	630 50
PUEBLA	
Puebla	
XETH	860 100
QUERETARO	
Queretaro	
XEFS	1000 40
SAN LUIS POTOSI	
San Luis Potosi	
-XEAC	1295 100
SONORA	
Nogales	
XEAB	990 750
TAMAULIPAS	
Nuevo Laredo	
XEAB	1450 7.5
XEBF	985 100
-XENT	1115 150000
Reynosa	
-XEAW	965 10000
Tampico	
XEFW	1280 70
-XES	1020 250
VERACRUZ	
Jalapa	
XFB	1290 1000
Veracruz	
XEU	1010 100
YUCATAN	
Merida	
XEFC	1050 100
XEY	546.8 10
XEZ	630 500
WEST INDIES	
CUBA	
Calbarlen	
CMHD	945.5 500
Camaguey	
CMJC	1382 150
CMJE	1170 50
CMJF	910 200

CMJG	1050 50
CMJK	790 500
CMJL	960 50
CMJN	1240 50
Cardenas	
CMGE	1375 30
Ciego de Avila	
CMJH	1150 50
CMJI	1335 45
CMJO	1010 50
Cienfuegos	
CMHJ	1125 60
CMHL	1290 20
CMHW	1200 100
Colon	
CMGA	834 100
Cruces	
CMHK	1225 50
Guantanamo	
CMKJ	1300 20
Havana	
CMAF	680 1000
CMBC	1270 150
CMBD	965 250
CMBG	1052 225
CMBJ	1140 500
CMBK	1485 15
CMBL	1445 200
CMBN	1185 150
CMB5	765 200
CMBW	1140 600
CMBY	1230 250
CMBZ	1005 150
CMC	835 500
CMCA	1230 150
CMCB	1052 150
CMCD	915 500
CMCF	873 250
CMCH	1410 50
CMCJ	1180 500
CMCM	1410 15
CMCN	1375 250
CMCP	1270 150
CMCQ	775 1000
CMCR	1375 150
CMCU	1100 500

CMCW	965 150
CMCY	1320 500
CMDD	588 150
CMDE	925 150
CMK	730 5000
CMQ	630 500
CMW	595 1400
CMX	875 1000
Matanzas	
CMGB	1205 30
CMGC	820 30
CMGF	971.5 100
CMGH	1040 15
Moron	
CMJP	1360 75
Pinar del Rio	
CMAB	1249 20
Santa Clara	
CMHI	1037 250
Santiago	
CMKC	1034 150
DOMINICAN REPUBLIC	
San Pedro de	
Marcoris	
HHH	1395 15
Santo Domingo	
HIJ	1195 15
HIX	580 1500
HIZ	1300 10
HAITI	
Port-au-Prince	
HHK	920 1000
SOUTH AMERICA	
ARGENTINE	
Buenos Aires	
-LR5	830 20000
COLOMBIA	
Bogota	
HJN	681 500
VENEZUELA	
Caracas	
YV1BC	960 5000
YV2BC	882 100
YV3BC	1200 1000

The harmonious Morin Sisters, left to right, Marge, Pauline and Evelyn, heard on the Sealed 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 White man heard them there and advised them to try their fortunes at the Chicago NBC studios, where they immediately clicked.



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CFAC 930 100 Calgary, Alta. Calgary Herald.	CJOR 600 500 Vancouver, B. C. G. C. Chandler.
CFBO 1210 100 St. John, N. B. C. A. Munro, Ltd.	CJRC 1390 100 Middlechurch, Man. James Richardson & Sons.
CFCF 600 500 Montreal, Que. Canadian Marconi Co.	CJRM 540 1000 Moose Jaw, Sask. James Richardson & Sons, Ltd.
CFCH 930 100 North Bay, Ont. Northern Broadcasting Co., Ltd.	CJRW 540 500 Fleming, Sask. James Richardson & Sons, Ltd.
CFCN 1030 10000 Calgary, Alta. Voice of the Prairies, Ltd.	CKAC 730 5000 Montreal, Que. LaPresse Publishing Co., Ltd.
CFCO 600 50 Chatham, Ont. John Beardall.	CKBI 1210 100 Prince Albert, Sask. Princes Albert Radio Club.
CFCT 1450 50 Victoria, B. C. Victoria Broadcasting Assn.	CKCD 1010 100 Vancouver, B. C. Vancouver Daily Province.
CFCY 630 500 Charlottetown, P. E. I. Island Radio Broadcasting Co., Ltd.	CKCH 1210 100 Hull, Que. Dr. J. L. Chabot.
CFJC 1310 100 Kamloops, B. C. Review Publishing Co., Ltd.	CKCK 1010 500 Regina, Sask. Leader-Post, Ltd.
CFLC 930 100 Prescott, Ont. Radio Assn. of Prescott.	CKCL 580 100 Toronto, Ont. Dominion Battery Co., Ltd.
CFNB 1030 500 Fredericton, N. B. James S. Neill & Sons, Ltd.	CKCO 1010 100 Ottawa, Ont. Dr. G. M. Geldert.
CFPL 780 100 London, Ont. Free Press & Printing Co., Ltd.	CKCR 1510 100 Kitchener, Ont. William C. Mitchell and G. Liddle.
CFQC 1230 500 Saskatoon, Sask. Electric Shop, Ltd.	CKCV 1310 50 Quebec, Que. Vandry, Inc.
CFRB 690 10000 Toronto, Ont. Canadian Radio Corp., Ltd.	CKFC 1410 50 Vancouver, B. C. Radio Service Engineers, Ltd.
CFRC 1510 100 Kingston, Ont. Queens University.	CKGB 1420 100 Timmins, Ont. R. H. Thompson
CFTP 1120 100 Edmonton, Alta. Taylor & Pearson, Ltd.	CKIC 1010 50 Wolfville, N. S. Acadia University.
CHAB 1200 100 Moose Jaw, Sask. Moose Jaw Radio Assn.	CKLW 840 5000 Windsor, Ont. Western Ontario Broadcasting Co., Ltd.
CHCK 1310 50 Charlottetown, P. E. I. J. A. Gesner.	CKMC 1210 50 Cobalt, Ont. R. L. MacAdam.
CHGS 1120 50 Summerside, P. E. I. R. T. Holman, Ltd.	CKMO 1410 100 Vancouver, B. C. Sprott-Shaw Radio Co.
CHLP 1120 100 Montreal, Que. La Patrie Publishing Co., Ltd.	CKNC 1030 100 Toronto, Ont. Canadian National Carbon Co., Ltd.
CHML 1010 50 Hamilton, Ont. Maple Leaf Radio Co., Ltd.	CKOC 1120 500 Hamilton, Ont. Wentworth Radio Broadcasting Co., Ltd.
CHNC 1210 100 New Carlisle, Que. Dr. Charles Houde.	CKOV 1210 50 Kellowna, B. C. Okanagan Broadcasters, Ltd., Box 243.
CHNS 1050 500 Halifax, N. S. Maritime Broadcasting Co., Ltd.	CKPC 930 100 Brantford, Ont. Cyrus Dolph.
CHPR 1370 100 St. John, N. B. H. P. Robinson.	CKPR 780 50 Fort William, Ont. Dougall Motor Co., Ltd.
CHRC 930 100 Quebec, Que. CHRC, Ltd.	CKTB 1200 100 St. Catharines, Ont. E. T. Sandell.
CHWC 1010 500 Regina, Sask. R. H. Williams & Sons, Ltd.	CKUA 580 500 Edmonton, Alta. University of Alberta.
CHWK 780 100 Chilliwack, B. C. Chilliwack Broadcasting Co., Ltd.	CKWX 1010 100 Vancouver, B. C. Western Broadcasting Co., Ltd.
CJAT 1200 50 Trail, B. C. Trail Amateur Radio Assn.	CKX 1450 500 Brandon, Man. Manitoba Telephone System
CJCA 730 1000 Edmonton, Alta. Edmonton Journal, Ltd.	CKY 910 5000 Winnipeg, Man. Manitoba Telephone System.
CJCB 880 50 Sydney, N. S. Nathanson's Radio Headquarters.	CMAB 1249 20 Pinar del Rio, Cuba. Jose Silveira, Marti No. 101.
CJCJ 690 100 Calgary, Alta. Albertan Publishing Co., Ltd.	CMAF 680 1000 Havana, Cuba. International Broadcasting Co., Miramar.
CJCS 780 500 Sudbury, Ont. George McLeod Cootes	CMBC 1270 150 Havana, Cuba. Domingo Fernandez, Maximo Gomez No. 139.
CJGX 630 500 Yorkton, Sask. Winnipeg Grain Exchange.	CMBD 965 250 Havana, Cuba. Luis Perez Garcia, Enamorados y Flores.
CJKL 1310 100 Kirkland Lake, Ont. O. J. Thorpe & Branchaud.	CMBG 1052 225 Havana, Cuba. John L. Stowers, Hospital No. 100
CJLS 1310 100 Yarmouth, N. S. Laurie L. Smith.	CMBJ 1140 500 Havana, Cuba. Emilio Perera, Consulado y Virtudes.
CJOC 840 100 Lethbridge, Alta. H. R. Carson, Ltd.	CMBK 1485 15 Havana, Cuba. Alberto Alvarez, Paula y Oficios.

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CMBL 1445	200	Havana, Cuba. Julio C. Hidalgo, Vedado.	CMJE 1170	50	Camaguey, Cuba. Manuel Fernandez, Plaza de Maceo.
CMBN 1185	150	Havana, Cuba. G. de Sequeira, Agrimonte No. 32	CMJF 910	200	Camaguey, Cuba. John L. Stowers, Hotel Plaza.
CMBS 765	200	Havana, Cuba. Enrique Artalejo, Calzada y H. St.	CMJG 1050	50	Camaguey, Cuba. Jose Antonio Lefran, Martires 133.
CMBW 1140	600	Havana, Cuba. Alvarez, Moris y Cla, Obrapla No. 13.	CMJH 1150	50	Ciego de Avila, Cuba. Luis Marauri Mendosa.
CMBY 1230	250	Havana, Cuba. Callejas-Estefani, Principe No. 33.	CMJI 1335	45	Ciego de Avila, Cuba. Gilberto Gessa Lopez, Independencia 95.
CMBZ 1005	150	Havana, Cuba. Manuel y G. Salas, San Rafael No. 14.	CMJK 790	500	Camaguey, Cuba. Compania Cubana Nacional de Radio S. A.
CMC 835	500	Havana, Cuba. Radio Corp. of Cuba.	CMJL 960	50	Camaguey, Cuba. Enrique Artime, Cuba No. 27.
CMCA 1230	150	Havana, Cuba. Manuel Cruz, Ave. de Italia No. 102.	CMJN 1240	50	Camaguey, Cuba. Ernesto de Ugariza, Martires 11.
CMCB 1052	150	Havana, Cuba. Metropolitan-Radio de Cuba.	CMJO 1010	50	Ciego de Avila, Cuba. Jose M. Rey, C. Central & Maceo.
CMCD 915	500	Havana, Cuba. Angel Bertematy.	CMJP 1390	75	Moron, Cuba. Cesar Canall, Callejas No. 28.
CMCF 873	250	Havana, Cuba. Raoul Karman.	CMK 730	5000	Havana, Cuba. National Broadcasting Co. of Cuba.
CMCH 1410	50	Havana, Cuba. Wifredo y Humberto Fontanals Sanchez.	CMKC 1034	150	Santiago, Cuba. Pinol Batlle y Co.
CMCJ 1180	500	Havana, Cuba. Rafael Rodriguez, Estevez No. 4.	CMKJ 1300	20	Quantanama, Cuba. Luis Morlote, East Giro 11.
CMCM 1410	15	Havana, Cuba. Aurelio Ballno, Belas Coain No. 639.	CMQ 630	500	Havana, Cuba. Jose Fernandez, 25 Numero 445.
CMCN 1376	250	Havana, Cuba. Antonio Ginard, Reina y Ave. Buen Retiroe	CMW 595	1400	Havana, Cuba. Troncoso y Gil, Paseo de Marti 103.
CMCP 1270	150	Havana, Cuba. Jose A. Yauls	CMX 875	1000	Havana, Cuba. Casa "Lavin," Ave. de la Republica 99A.
CMCQ 775	1000	Havana, Cuba. Andres Martinez, Vista Alegre No. 80.	CRCM 910	5000	Montreal, Que. Canadian Radio Broadcasting Commission
CMCR 1376	150	Havana, Cuba. Aurelio Hernandez.	CRCO 880	1000	Ottawa, Ont. Canadian Radio Broadcasting Commission.
CMCU 1100	500	Havana, Cuba. Jorge Garcia Serra.	CRCS 1500	100	Chicoutimi, Que. Canadian Marconi Co., Ltd.
CMCW 965	150	Havana, Cuba. Vilarino y Cervantes.	CRCT 969	5000	Toronto, Ont. Canadian Radio Broadcasting Commission.
CMCY 1325	500	Havana, Cuba. Manuel D. Autran, Ave. de La Pdt s.215.	CRCV 1100	1000	Vancouver, B. C. Canadian Radio Broadcasting Commission.
CMDD 588	150	Havana, Cuba. G. de Sequira	FQN 572	250	St. Pierre, Miq.
CMDE 925	150	Havana, Cuba. Radio Aerial Ad.	HHK 920	1000	Port-au-Prince, Haiti. Haitian Government.
CMGA 834	100	Colon, Cuba. L. Valdes Figueroa, Marti No. 19.	HIH 1395	15	San Pedro de M., D. R. Domingo Dominguez
CMGB 1205	30	Matanzas, Cuba. Jose Anorga, Magdalena No. 1.	HIJ 1195	15	Santo Domingo, D. R. Tuto Baez, Hostos 34
CMGC 820	30	Matanzas, Cuba. Oscar S. Mechozo, Independencia No. 56.	HIX 590	1500	Santo Domingo, D. R. J. R. Saladin, Director General
CMGE 1376	30	Cardenas, Cuba. Genaro Sebater, Cespedes No. 180.	HIZ 1300	10	Santo Domingo, D. R. Abbes and Garda
CMGF 971.5	100	Matanzas, Cuba. Bernabe R. de la Torre.	HJN 681	500	Bogota, Colombia Government of Colombia, National Library.
CMGH 1040	15	Matanzas, Cuba. Octavio y Julio Alvarez.	KABC 1420	100	San Antonio, Texas. Alamo Broadcasting Co., Inc.
CMHD 945.5	500	Caibarien, Cuba. Manuel Alvarez, M. Escobar 17.	KALE 1300	500	Portland, Ore. Kale, Inc., New Heathman Hotel
CMHI 1037	250	Santa Clara, Cuba. Lavis y Paz.	KARK 890	250	Little Rock, Ark. Arkansas Radio & Equipment Co.
CMHJ 1125	50	Cienfuegos, Cuba. Victorino Lopez Hontanon.	KASA 1210	100	Elk City, Okla. E. M. Woody, Casa Grande Hotel.
CMHK 1225	50	Crucos, Cuba. Virgilio Villaneuva Fernandez.	KBPS 1420	100	Portland, Ore. Benson Polytechnic School
CMHL 1290	20	Cienfuegos, Cuba. Oscar Zayas, San Carlos 143.	KBTM 1200	100	Jonesboro, Ark. Jay P. Beard.
CMHW 1200	100	Cienfuegos, Cuba. San Carlos No. 106	KCMC 1420	100	Texarkana, Ark. M. P. Mims, Box 865.
CMJC 1382	150	Camaguey, Cuba. Feliciano Isaac, Cisneros y G. Gomez.	KCRC 1370	100	Enid, Okla. Enid Radiophone Co.

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KORJ 1310 100 Jerome, Ariz. Chas. C. Robinson, Drawer D.	KFPL 1310 100 Dublin, Texas. C. C. Baxter, Box 176
KDB 1500 100 Santa Barbara, Calif Santa Barbara Broadcasters, Ltd.	KFPM 1310 15 Greenville, Texas. New Furniture Co.
KDFN 1440 600 Casper, Wyo. Donald Lewis Hathaway.	KFPW 1210 100 Fort Smith, Ark. Southwestern Hotel Co.
KDKA 980 5000 Pittsburgh, Pa. Westinghouse Electric & Mfg. Co.	KFPY 1340 1000 Spokane, Wash. Symons Broadcasting Co.
KDLR 1210 100 Devils Lake, N. D. KDLR, Inc., 1025 3rd Street.	KFQD 800 250 Anchorage, Alaska Anchorage Radio Club, Inc.
KDYL 1290 1000 Salt Lake City, Utah. Intermountain Broadcasting Corp.	KFRG 610 1000 San Francisco, Calif. Don Lee, Inc.
KECA 1430 1000 Los Angeles, Calif. Earle C. Anthony, Inc.	KFRU 530 500 Columbia, Mo. KFRU, Inc., 9th and Elm Sts.
KELW 780 600 Burbank, Calif. Magnolia Park, Ltd., 3702 Magnolia	KFSD 800 1000 San Diego, Calif. Airfan Radio Corp., Ltd.
KERN 1200 100 Bakersfield, Calif. Bee Bakersfield Broadcasting Co.	KFSG 1120 500 Los Angeles, Calif. Echo Park Evangelistic Assn.
KEX 1180 5000 Portland, Ore. National Broadcasting Co.	KFUO 550 500 St. Louis, Mo. Evangelical Lutheran Church.
KFAB 770 5000 Lincoln, Neb. KFAB Broadcasting Co.	KFVD 1000 250 Los Angeles, Calif. E. L. Cord, 645 S. Mariposa.
KFAC 1300 1000 Los Angeles, Calif. E. L. Cord, 645 So. Mariposa.	KFVS 1210 100 Cape Girardeau, Mo. Oscar C. Hirsch, Box 275.
KFBB 1280 1000 Great Falls, Mont. Buttrey Broadcast, Inc.	KFWB 950 1000 Hollywood, Calif. Warner Bros. Motion Pictures, Inc.
KFBI 1050 5000 Abilene, Kans. Farmers & Bankers Life Ins. Co.	KFWI 930 500 San Francisco, Calif. Radio Entertainments, Ltd.
KFBK 1310 100 Sacramento, Calif. James McClatchy Publishing Co.	KFXD 1200 100 Nampa, Idaho. Frank E. Hurt, 1024 12th Ave., S.
KFBL 1370 50 Everett, Wash. Leese Bros., 2814 Rucker Ave.	KFXF 920 500 Denver, Colo. Colorado Radio Corp.
KFDM 550 500 Beaumont, Texas. Sabine Broadcasting Co.	KFXJ 1200 100 Grand Jct., Colo. Western Slope Broadcasting Co.
KFDY 550 500 Brookings, S. D. South Dakota State College.	KFXM 1210 100 San Bernardino, Calif. Lee Bros. Broadcasting Co.
KFEL 920 500 Denver, Colo. Eugene P. O'Fallon, Inc.	KFXR 1310 100 Oklahoma City, Okla. Exchange Avenue Baptist Church.
KFEQ 880 2500 St. Joseph, Mo. Seroggin & Co. Bank	KFYO 1310 100 Lubbock, Texas. Kirksey Bros., Hotel Lubbock.
KFGQ 1310 100 Boone, Iowa. Boone Biblical College.	KFYR 550 1000 Bismarck, N. D. Mayer Broadcasting Co.
KFH 1300 1000 Wichita, Kans. Radio Station KFH Co.	KGA 1470 5000 Spokane, Wash. Northwest Broadcasting Co., Inc.
KFI 840 50000 Los Angeles, Calif. Earle C. Anthony, Inc.	KGAR 1370 100 Tucson, Ariz. Tucson Motor Service Co.
KFIO 1120 100 Spokane, Wash. Spokane Broadcasting Corp.	KGB 1330 1000 San Diego, Calif. Don Lee Broadcasting System
KFIZ 1420 100 Fond du Lac, Wis. Reporter Printing Co.	KGBU 900 500 Ketchikan, Alaska. Alaska Radio & Service Co., Inc.
KFJB 1200 100 Marshalltown, Iowa. Marshall Electric Co.	KGBX 1310 100 Springfield, Mo. KGBX, Inc.
KFJI 1210 100 Klamath Falls, Ore. KFJI Broadcasters, Inc., Willard Hotel.	KGBZ 930 500 York, Neb. KGBZ Broadcasting Co., 715 Grant Ave.
KFJM 1370 100 Grand Forks, N. D. University of North Dakota.	KGCA 1270 100 Decorah, Iowa Charles W. Greenley
KFJR 1300 500 Portland, Ore. Ashley C. Dixon-KFJR, Inc.	KGCR 1210 100 Watertown, S. D. Greater Kampeka Radio Corp.
KFJZ 1370 100 Fort Worth, Texas. Fort Worth Broadcasters, Inc.	KGCU 1240 250 Mandan, N. D. Mandan Radio Assn.
KFKA 880 500 Greeley, Colo. Mid-Western Radio Corp.	KGCX 1310 100 Wolf Point, Mont. E. E. Krebsbach.
KFKU 1220 500 Lawrence, Kans. University of Kansas.	KQDE 1200 100 Fergus Falls, Minn. C. L. Jaren.
KFLV 1410 500 Rockford, Ill. Rockford Broadcasters, Inc.	KQDM 1100 250 Stockton, Calif. E. F. Peffer, 42 S. Calif. St.
KFNF 890 500 Shenandoah, Iowa. Henry Field Co.	KQDY 1340 250 Huron, S. D. Voice of S. D., Inc., 347 Dakota Ave.
KFOR 1210 100 Lincoln, Neb. Howard Shuman	KGEK 1200 100 Yuma, Colo. Elmer G. Beehler, 109 W. 2nd St.
KFOX 1250 1000 Long Beach, Calif. Nicholas & Warlner, Inc.	KGER 1380 1000 Long Beach, Calif. Consolidated Broadcasting Co.

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KGEZ 1310 100 Kalispell, Mont.
Donald C. Treloor, Box 1.

KGFF 1420 100 Shawnee, Okla.
KGFF Broadcasting Co., Inc.

KGFG 1370 100 Oklahoma City, Okla.
Oklahoma Broadcasting Co., 1113 N. Broadway

KGF 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 500 Coffeyville, Kans.
Hugh J. Powell and Stanley Platz.

KGGM 1230 250 Albuquerque, N. M.
New Mexico Broadcasting Co.

KQHF 1320 250 Pueblo, Colo.
C. P. Ritchie & Geo. J. Ikelman

KQHI 1200 100 Little Rock, Ark.
Lloyd Judd Co., Marion Hotel.

KQHL 950 1000 Billings, Mont.
Northwestern Auto Supply Co.

KQIR 1360 500 Butte, Mont.
KGIR, Inc., 121 W. Broadway.

KGIW 1420 100 Alamosa, Colo.
Leonard E. Wilson, 326 N. Commercial

KQIX 1420 100 Las Vegas, Nev.
J. M. Heaton, Box 666.

KQKB 1500 100 Tyler, Texas.
East Texas Broadcasting Co.

KQKL 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.

KQNO 1340 250 Dodge City, Kans.
EGNO Broadcasting Station

KGO 790 7500 San Francisco, Calif.
National Broadcasting Co., Inc.

KGRS 1410 1000 Amarillo, Texas.
E. B. Glsh, Bellaire Park.

KGU 750 2500 Honolulu, T. H.
Advertiser Publishing Co., Ltd.

KQVO 1200 100 Missoula, Mont.
Mosby, Inc., 240 N. Higgins.

KQW 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 690 1800 Spokane, Wash.
Louis Waamer, 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. Lintzente, 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 890 1000 Oakland, Calif.
Tribune Building Co.

KLZ 590 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 1810 100 Medford, Ore.
Mrs. W. J. Virgin, Sparta Bldg.

KMJ 590 500 Fresno, Calif.
James McCleathy Co.

KMLB 1200 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 5000 St. Louis, Mo.
The Voice of St. Louis, Inc.

KMPC 710 590 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 1050 25000 Hollywood, Calif.
Western Broadcast Co., Inc.

KOA 830 12,500 Denver, Colo.
General Electric Co., 1370 Krameria St.

KOAC 550 1800 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 1260 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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KOMA 1480 5000 Oklahoma City, Okla. National Radio Manufacturing Co.	KTFI 1240 1000 Twin Falls, Idaho. Radio Broadcasting Corp.
KOMO 920 1000 Seattle, Wash. Fishers Blend Station, Inc.	KTHS 1040 10000 Hot Springs, Ark. Chamber of Commerce.
KONO 1370 100 San Antonio, Texas. Mission Broadcasting Co., St. Anthony Hotel.	KTM 780 500 Los Angeles, Calif. Pickwick Broadcasting Corp., Ltd.
KOOS 1370 100 Marshfield, Ore. H. H. Hanseth, Hall Bldg.	KTRH 1120 1000 Houston, Texas. KTRH Broadcasting Co., Rice Hotel.
KORE 1420 100 Eugene, Ore. Frank L. Hill and Curtis G. Phillips.	KTSA 1290 1000 San Antonio, Texas. Southwest Broadcasting Co.
KOY 1390 500 Phoenix, Ariz. Nielsen Radio & Sporting Goods Co.	KTSM 1310 100 El Paso, Texas. Tri-State Broadcasting Co., Inc.
KPCB 650 100 Seattle, Wash. Queen City Broadcasting Co.	KTUL 1400 250 Tulsa, Okla. J. T. Griffin
KPJM 1500 100 Prescott, Ariz. Frank Mauthe, Box 852	KTW 1220 1000 Seattle, Wash. First Presbyterian Church.
KPO 690 50000 San Francisco, Calif. National Broadcasting Co., Inc.	KUJ 1370 100 Walla Walla, Wash. KUJ, Inc., Marcus Whitman Hotel.
KPOF 880 500, Denver, Colo. Pillar Of Fire, 1845 Champa St.	KUMA 1420 100 Yuma, Ariz. Dr. A. H. Sohermann, Box 267.
KPPC 1210 60 Pasadena, Calif. Pasadena Presbyterian Church.	KUOA 1260 1000 Fayetteville, Ark. KUOA, Inc., Washington Hotel.
KPQ 1500 100 Wenatchee, Wash. Wescoat Broadcasting Co.	KUSD 890 500 Vermillion, S. D. University of South Dakota.
KPRC 920 1000 Houston, Texas. Houston Printing Co.	KVI 670 500 Tacoma, Wash. Puget Sound Broadcasting Co., Tacoma Hotel.
KQV 1390 500 Pittsburgh, Pa. KQV Broadcasting Co., Investment Bldg.	KVL 1370 100 Seattle, Wash. KVL, Inc., 5th and Virginia St.
KQW 1010 500 San Jose, Calif. Pacific Agricultural Foundation, Ltd.	KVOA 1260 500 Tucson, Ariz. Arizona Broadcasting Co., Inc.
KRE 1370 100 Berkeley, Calif. First-Congregational Church.	KVOO 1140 25000 Tulsa, Okla. Southwestern Sales Corp.
KREG 1500 100 Santa Ana, Calif. The Voice of the Orange Empire, Inc.	KVOR 1270 1000 Colorado Springs, Colo. S. H. Patterson
KRGV 1250 500 Harlingen, Texas. KRGV, Inc.	KVOS 1200 100 Bellingham, Wash. KVOS, Inc., Bellingham Hotel.
KRKD 1120 500 Los Angeles, Calif. FireSide Broadcasting Corp.	KWCR 1420 100 Cedar Rapids, Iowa. Cedar Rapids Broadcast Co.
KRLD 1040 10000 Dallas, Texas. KRLD Radio Corp., Adolphus Hotel.	KWEA 1210 100 Shreveport, La. International Broadcasting Corp.
KRMD 1310 100 Shreveport, La. Radio Station KRMD, Inc.	KWFF 1210 100 Hilo, Hawaii Hilo Broadcasting Co., Ltd.
KROW 930 500 Oakland, Calif. Educational Broadcasting Corp.	KWG 1200 100 Stockton, Calif. McClatchy Newspapers, Inc.
KRSC 1120 100 Seattle, Wash. Radio Sales Corp., Washington Athletic Club.	KWJJ 1060 500 Portland, Ore. KWJJ Broadcasting Co., Inc., 328 Salmon St.
KSAC 590 500 Manhattan, Kans. State College of Agriculture.	KWK 1360 1000 St. Louis, Mo. Thomas Patrick, Inc., Hotel Chase.
KSCJ 1330 1000 Sioux City, Iowa. Perkins Bros. Co., 415 Douglas St.	KWKC 1370 100 Kansas City, Mo. Wilson Duncan Broadcasting Co.
KSD 550 500 St. Louis, Mo. Pulitzer Publishing Co.	KWKH 850 10000 Shreveport, La. International Broadcasting Corp.
KSEI 890 250 Pocatello, Idaho. Radio Service Corp., 141 S. 6th Ave.	KWLC 1270 100 Decorah, Iowa. Luther College.
KSL 1130 50000 Salt Lake City, Utah. Radio Service Corp. of Utah.	KWSC 1220 1000 Pullman, Wash. State College of Washington.
KSO 1370 100 Des Moines, Iowa. Des Moines Register & Tribune.	KWTO 560 500 Springfield, Mo. KGBX Inc.
KSOO 1110 1000 Sioux Falls, S. D. Jos. Henkin, 1613 S. Duluth Ave.	KWWG 1280 500 Brownsville, Texas. Frank P. Jackson.
KSTP 1480 10000 St. Paul, Minn. National Battery Broadcasting Co.	KXA 760 250 Seattle, Wash. American Radio Tel. Co., 218 Bigelow Bldg.
KSUN 1200 100 Lowell, Ariz. Copper Electrical Co.	KXL 1420 100 Portland, Ore. KXL Broadcasters, 209 Pine St.
KTAB 580 1000 San Francisco, Calif. Associated Broadcasters, Inc.	KXO 1500 100 El Centro, Calif. E. R. Irey and F. M. Bowles.
KTAR 620 500 Phoenix, Ariz. KTAR Broadcasting Co.	KXRO 1310 100 Aberdeen, Wash. KXRO, Inc., Hotel Morok.
KTAT 1240 1000 Fort Worth, Texas. Southwest Broadcasting Co.	KXYZ 1440 250 Houston, Texas. Harris County Broadcast Co.
KTBS 1450 1000 Shreveport, La. Tri-State Broadcasting System.	KYA 1230 1000 San Francisco, Calif. Pacific Broadcasting Corp.

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KYW 1020 10000 Chicago, Ill. Westinghouse Elec. & Mfg. Co.	WAIU 640 500 Columbus, Ohio. Associated Radio-casting Corp.
KZRM 610.5 60000 Manila, P. I. Erlanger and Galinger, Inc. (KZEG)	WALR 1210 100 Zanoville, Ohio. WALR Broadcasting Corp.
LR5 830 20000 Buenos Aires, Arg.	WAMC 1420 100 Aniston, Ala. R. C. Hammett, 1200 Noble St.
NAA 690 1000 Arlington, Va. United States Navy.	WAML 1310 100 Laurel, Miss. Southland Radio Corp.
RUS 864 500 San Salvador, E. S. Republic of El Salvador.	WAPI 1140 5000 Birmingham, Ala. WAPI Broadcasting Corp.
TGW 1350 500 Guatemala, Gua. Gobierno de Guatemala.	WARD 1400 500 Brooklyn, N. Y. United States Broadcasting Corp.
TGX 1380 75 Guatemala City	WASH 1270 500 Grand Rapids, Mich. Kunsky-Trendle Broadcasting Corp.
TIGR 912 75 San Jose, C. R. Government of Costa Rica.	WAVE 940 1000 Louisville, Ky. WFIW, Inc.
TIEA 833 7.5 San Jose, C. R.	WAWZ 1850 250 Zarephath, N. J. Pillar of Fire.
TIEP 1450 7.5 San Jose, C. R.	WAZL 1420 100 Hazleton, Pa. Hazleton Broadcasting Service, Inc.
TIFB 714 30 San Jose, C. R.	WBAA 1400 500 West Lafayette, Ind. Purdue University.
TIFS 1441 7.5 Cartago, C. R.	WBAK 1430 1000 Harrisburg, Pa. Commonwealth of Pennsylvania.
TIGA 1014 30 Cartago, C. R.	WBAL 1060 10000 Baltimore, Md. Consolidated Gas, Elec. Light & Power Co.
TIGP 800 75 San Jose, C. R. Gonzalo Pinto H. Apt. 225.	WBAP 800 50000 Fort Worth, Texas. Carter Publications, Inc.
TIRCA 1100 500 San Jose, C. R. Perry Girtan, Apt. 225.	WBAX 1210 100 Wilkes-Barre, Pa. John H. Stenger, Jr., 70 S. Main St.
TISO 650 250 San Jose, C. R. P. F. Saborio, Apt. 1354	WBBC 1400 500 Brooklyn, N. Y. Brooklyn Broadcasting Corp.
TITV 999 7.5 San Jose, C. R.	WBBL 1210 100 Richmond, Va. Grace Covenant Presbyterian Church.
TIVL 869 30 San Jose, C. R.	WBBM 770 25000 Chicago, Ill. WBBM Broadcasting Corp., Wrigley Bldg.
TIXA 614 7.5 San Jose, C. R. I	WBBR 1390 1000 Brooklyn, N. Y. Peoples Pulpit Assn.
VAS 685 2000 Glace Bay, N. S. Canadian Marconi Co., Ltd.	WBBX 1200 100 New Orleans, La. Samuel D. Reeks, Marberc Hotel.
VESEK 1195 10 Montmagny, Que. J. A. Marquis, P. O. Box 57	WBBZ 1200 100 Ponca City, Okla. C. L. Carrell.
VOAC 800 40 St. John's, Nfld.	WBCM 1410 500 Bay City, Mich. James E. Davidson, Hotel Wenonah.
VOAS 810 100 St. John's, N. F. Ayre & Sons, Ltd.	WBN 900 1000 Buffalo, N. Y. WBN, Inc. (Buffalo Evening News).
VOGY 950 75 St. John's, N. F. Newfoundland Broadcasting Co.	WBEO 1310 100 Marquette, Mich. Lake Superior Broadcasting Co., Inc.
VOKW 1085 30 St. John's, N. F. Cyril L. Parkins.	WBHS 1200 100 Huntsville, Ala. Radio Station WBHS, Inc.
VONF 1195 400 St. John's, N. F. Dominion Broadcasting Co., Ltd., Box 1355.	WBIG 1440 500 Greensboro, N. C. North Carolina Broadcasting Co., Inc.
VOWR 900 500 St. John's, N. F. Wesley United Church, Box 157.	WBNX 1350 250 New York, N. Y. Standard Cahill Co., Inc.
WAAB 1410 500 Boston, Mass. Bay State Broadcasting Corp., 1 Winter Pl.	WBOQ 850 50000 New York, N. Y. Atlantic Broadcasting Corp.
WAAP 920 600 Chicago, Ill. Chicago Daily Drivers Journal.	WBOW 1310 100 Terre Haute, Ind. Banks of Wabash, Inc., 24½ S. 6th.
WAAT 940 300 Jersey City, N. J. Bremer Broadcasting Corp., 50 Journal Sq.	WBRC 930 500 Birmingham, Ala. Frank M. King, Receiver.
WAAW 660 500 Omaha, Neb. Omaha Grain Exchange.	WBRE 1310 100 Wilkes-Barre, Pa. Louis G. Baltimore, 16 N. Main.
WABC 850 50000 New York, N. Y. Atlantic Broadcasting Corp.	WBSO 920 500 Babson Park, Mass. Broadcasting Service Organization, Inc.
WABI 1200 100 Bangor, Maine. First Universalist Society.	WBT 1080 50000 Charlotte, N. C. Station WBT, Inc., Wilder Bldg.
WACO 1420 100 Waco, Texas. Southwest Broadcasting Co.	WBTM 1370 100 Danville, Va. Piedmont Broadcasting Corp.
WADC 1320 1000 Akron, Ohio. Allen T. Simmons, P. O. Box 29.	WBZ 990 50000 Boston, Mass. Westinghouse Elec. & Mfg. Co.
WAGM 1420 100 Presque Isle, Me. Aroostook Broadcasting Corp.	WBZA 990 1000 Springfield, Mass. Westinghouse Elec. & Mfg. Co.

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WCAC 600 250 Storrs, Conn. Connecticut Agricultural College.	WDEV 550 500 Waterbury, Vt. Harry C. Whitehill, Stowe St.
WCAD 1220 500 Canton, N. Y. St. Lawrence University.	WDGY 1180 1000 Minneapolis, Minn. Dr. Geo. W. Young, 909 W. Broadway.
WCAE 1220 1000 Pittsburgh, Pa. WCAE, Inc., Sun-Telegraph.	WDOD 1280 1000 Chattanooga, Tenn. WDOD Broadcasting Corp., Hotel Patten.
WCAH 1430 500 Columbus, Ohio. International Bible Students Assn.	WDRG 1330 1000 Hartford, Conn. WDRG, Inc., Corning Bldg., 11 Asylum St.
WCAL 1250 1000 Northfield, Minn. St. Olaf College.	WDSU 1250 1000 New Orleans, La. Jos. H. Uhalt, On Hotel DeSoto.
WCAM 1280 500 Camden, N. J. City of Camden, City Hall.	WDZ 1070 100 Tuscola, Ill. James L. Bush.
WCAO 500 250 Baltimore, Md. Monumental Radio Co.	WEAF 650 50000 New York, N. Y. National Broadcasting Co., Inc.
WCAP 1280 500 Asbury Park, N. J. Radio Industries Broadcast Co.	WEAN 780 500 Providence, R. I. Shepard Broadcasting Service, Inc.
WCAT 1200 100 Rapid City S. D. South Dakota State School of Mines.	WEBC 1280 1000 Superior, Wis. Head of the Lakes Broadcasting Co.
WCAU 1170 50000 Philadelphia, Pa. WCAU Broadcasting Co., 1622 Chestnut.	WEBQ 1210 100 Harrisburg, Ill. Harrisburg Broadcasting Co.
WCAX 1200 100 Burlington, Vt. Burlington Daily News, Inc.	WEBR 1310 100 Buffalo, N. Y. Howell Broadcasting Co., Inc., 735 Main.
WCAZ 1070 50 Carthage, Ill. Superior Broadcasting Service, Inc.	WEDC 1210 100 Chicago, Ill. Emil Denmark, 3860 Ogden Ave.
WCBA 1440 250 Allentown, Pa. B. Bryan Musselman, 39-41 10th St.	WEED 1420 100 Greenville, N. C. Wm. Avera Wynne.
WCBD 1080 5000 Zion, Ill. Wilbur Glenn Voliva.	WEEL 590 1000 Boston, Mass. Edison Elec. Illuminating Co.
WCBM 1370 100 Baltimore, Md. Baltimore Broadcasting Corp.	WEEU 830 1000 Reading, Pa. Berks Broadcasting Co., 533 Penn.
WCBS 1210 100 Springfield, Ill. WCBS, Inc., 208½ S. 5th.	WEHC 1350 500 Charlottesville, Va. Community Brdcastg. Corp.
WCGO 810 50000 Minneapolis, Minn. Northwestern Broadcasting, Inc.	WEHS 1420 100 Cicero, Ill. WEHS, Inc., 6138 W. 22nd St.
WCFL 970 1500 Chicago, Ill. Chicago Federation of Labor.	WELL 1420 50 Battle Creek, Mich. Enquirer News Co., 7 N. McCamly St.
WCKY 1490 5000 Covington, Ky. L. B. Wilson, Inc.	WENG 1420 100 Americus, Ga. Americus Broadcast Corp.
WCLO 1200 100 Janesville, Wis. WCLO Radio Corp.	WENR 870 50000 Chicago, Ill. Great Lakes Broadcasting Co.
WCLS 1310 100 Joliet, Ill. WCLS, Inc., 301 E. Jefferson St	WESG 1040 1000 Elmira, N. Y. Elmira Star Gazette, Inc.
WCNW 1500 100 Brooklyn, N. Y. Arthur Faaske, 1525 Pitkin Ave.	WEVD 1300 500 New York, N. Y. Jewish Daily Forward, Hotel Claridge.
WCOA 1340 500 Pensacola, Fla. Pensacola Broadcasting Co.	WEW 760 1000 St. Louis, Mo. St. Louis University, 221 N. Grand Blvd.
WCOG 880 500 Meridian, Miss. Mississippi Broadcasting Co., Inc.	WEXL 1310 50 Royal Oak, Mich. Royal Oak Broadcasting Co.
WCRW 1210 100 Chicago, Ill. Clinton R. White, 2756 Pine Grove Ave.	WFAA 800 50000 Dallas, Texas. Morning News and Journal
WCSC 1380 500 Charleston, S. C. South Carolina Broadcasting Co., Inc.	WFAB 1300 1000 New York, N. Y. Fifth Avenue Broadcasting Corp.
WCSH 940 1000 Portland, Me. Congress Square Hotel Co., 157 High.	WFAM 1200 100 South Bend, Ind. South Bend Tribune, 200 W. Colfax.
WDAE 1220 1000 Tampa, Fla. Tampa Publishing Co., Tampa Terrace.	WFAS 1210 100 White Plains, N. Y. Westchester Broadcasting Corp.
WDAF 610 1000 Kansas City, Mo. Kansas City Star Co.	WFBC 1200 100 Greenville, S. C. Greenville News-Piedmont Co.
WDAQ 1410 1000 Amarillo, Texas. National Radio & Broadcasting Corp.	WFBE 1200 100 Cincinnati, Ohio. WFBE, Inc., Hotel Sinton.
WDAH 1310 100 El Paso, Texas. Tri-State Broadcasting Co., Inc.	WFBG 1310 100 Altoona, Pa. Gable Broadcasting Co. 12th Av. & 13th St.
WDAS 1370 100 Philadelphia, Pa. WDAS Broadcastg. Co., Inc., Broadwood Hotel.	WFBL 1350 1000 Syracuse, N. Y. Onondaga Radio Broadcasting Corp.
WDAY 940 1000 Fargo, N. D. WDAY, Inc., Black Bldg., 118 Broadway.	WFBM 1230 1000 Indianapolis, Ind. Indianapolis Power & Light Co.
WDBJ 930 250 Roanoke, Va. Times World Corp., 122 W. Church Ave.	WFRB 1270 500 Baltimore, Md. Baltimore Radio Show, Inc.
WDBO 580 250 Orlando, Fla. Orlando Broadcasting Co., Inc.	WFDL 1310 100 Flint, Mich. Flint Broadcasting Co.
WDEL 1120 250 Wilmington, Del. WDEL, Inc., 10th and King Sts.	WFDV 1500 100 Rome, Ga. Rome Broadcasting Corp., 10 3rd Ave.

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WFEA 1430 600 Manchester, N. H.
 New Hampshire Broadcasting Co.
WFI 660 600 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 600 Cleveland, Ohio.
 WGAR Broadcasting Co., Hotel Statler.
WGBB 1210 100 Freeport, N. Y.
 H. H. Carman, 64 S. Grove St.
WGBF 630 600 Evansville, Ind.
 Evansville On the Air, Inc.
WGBI 880 250 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 600 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. Bissell.
WGN 720 50000 Chicago, Ill.
 WGN, Inc., Tribune Tower.
WGNY 1210 100 Chester, N. Y.
 Peter Goelet (Orange County).
WGR 650 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 940 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 600 Troy, N. Y.
 Rensselaer Polytechnic Institute.
WHB 860 600 Kansas City, Mo.
 WHB Broadcasting Co., Scarritt Bldg.
WHBC 1200 100 Canton, Ohio.
 Edw. P. Graham, 319 Tusco St., W.
WHBD 1370 100 Mount Orab, Ohio.
 F. P. Moler.
WHBF 1210 100 Rock Island, Ill.
 Rock Island Broadcasting Co.
WHBL 1410 600 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.

WHEB 740 250 Portsmouth, N. H.
 Granite State Broadcasting Corp.
WHEC 1430 600 Rochester, N. Y.
 WHEC, Inc., 40 Franklin St.
WHEF 1600 100 Kosciusko, Miss.
 Attala Milling & Produce Co.
WHET 1370 100 Dathan, 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 600 Harrisburg, Pa.
 WHP, Inc., Harrisburg Telegraph.
WIAS 1310 100 Ottumwa, Iowa.
 Iowa Broadcasting Co., Hotel Ottumwa.
WIBA 1280 600 Madison, Wis.
 Badger Broadcasting Co., Inc.
WIBQ 970 100 Glenside, Pa.
 WIBG, Inc., Keswick Bldg.
WIBM 1370 100 Jackson, Mich.
 WIBM, Inc., Oteago Hotel.
WIBU 1210 100 Poyntette, Wis.
 Wm. C. Forrest, R. F. D. No. 3.
WIBW 680 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 680 1000 Gary, Ind.
 Johnson-Kennedy Broadcasting Corp.
WINS 1180 600 New York, N. Y.
 American Radio News Corp.
WIOD 1300 1000 Miami, Fla.
 Isle of Dreams Broadcasting Corp.
WIP 610 600 Philadelphia, Pa.
 Pennsylvania Broadcasting Co.
WIS 1010 680 Columbia, S. C.
 Station WIS, Inc., 1811 Main St.
WISN 1120 250 Milwaukee, Wis.
 American Radio News Corp.
WJAC 1310 100 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 610 600 Cleveland, Ohio.
 Cleveland Radio Broadcasting Corp.
WJBC 1200 100 LaSalle, Ill.
 Kaaskala Broadcasting Co.
WJBI 1210 100 Red Bank, N. J.
 Monmouth Broadcasting Co., Inc.
WJBK 1370 60 Detroit, Mich.
 James F. Hopkins, Inc., Curtis Bldg.

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WJBL 1200 100 Decatur, Ill. Commodore Broadcasting, Inc.	WLBC 1310 100 Muncie, Ind. D. A. Burton, Anthony Bldg.
WJBO 1420 100 Baton Rouge, La. Baton Rouge Broadcasting Co., Inc.	WLBK 1420 100 Kansas City, Kans. WLBK Broadcasting Co., Huron Bldg.
WJBW 1200 100 New Orleans, La. C. C. Carlson, 2743 Dumaine St.	WLBL 900 2500 Stevens Point, Wis. Wisconsin Dept. of Agriculture and Markets.
WJBY 1210 100 Gadsden, Ala. Gadsden Broadcasting Co., 112 N. 8th St.	WLBW 1260 500 Erie, Pa. Broadcasters of Pennsylvania, Inc.
WJDX 1270 1000 Jackson, Miss. Lamar Life Insurance Co.	WLBZ 620 500 Bangor, Me. Maine Broadcasting Co., Inc., 100 Main.
WJEJ 1210 100 Hagerstown, Md. Hagerstown Broadcasting Co., Inc.	WLEC 1340 250 Portland, Me. Casco Bay Broadcasting Co.
WJEM 990 500 Tupelo, Miss. Britt A. Rogers, Jr.	WLEY 1370 100 Lexington, Mass. Albert S. Moffat
WJJD 1130 20000 Chicago, Ill. WJJD, Inc., 201 N. Wells St.	WLIT 560 500 Philadelphia, Pa. Lit Bros. Broadcasting System, Inc.
WJMS 1420 100 Ironwood, Mich. WJMS, Inc., St. James Hotel.	WLS 870 50000 Chicago, Ill. Agricultural Broadcasting Co.
WJR 750 10000 Detroit, Mich. WJR, Inc., Fisher Bldg.	WLTH 1400 500 Brooklyn, N. Y. Voice of Brooklyn, Inc.
WJSV 1460 10000 Washington, D. C. Old Dominion Broadcasting Co.	WLVA 1370 100 Lynchburg, Va. Lynchburg Broadcasting Corp.
WJTL 1370 100 Atlanta, Ga. Oglethorpe University.	WLW 700 50000 Cincinnati, Ohio. Crosley Radio Corp.
WJW 1210 100 Akron, Ohio. WJW, Inc., 41 S. High St.	WLWL 1100 5000 New York, N. Y. Missionary Society of St. Paul.
WJZ 780 50000 New York, N. Y. National Broadcasting Co., Inc.	WMAL 530 250 Washington, D. C. National Broadcasting Co., Inc.
WKAQ 1240 1000 San Juan, P. R. Radio Corp. of Porto Rico.	WMAQ 670 5000 Chicago, Ill. National Broadcasting Co., Inc.
WKAR 1040 1000 East Lansing, Mich. Michigan State College.	WMAS 1420 100 Springfield, Mass. WMAS, Inc., Hotel Stonehaven.
WKBB 1500 100 East Dubuque, Ill. Richard W. Hoffman	WMAZ 1160 500 Macon, Ga. Southeastern Broadcasting Co.
WKBC 1310 100 Birmingham, Ala. R. B. Broyles, Tutwiler Hotel.	WMBC 1420 100 Detroit, Mich. Michigan Broadcasting Co.
WKBF 1400 500 Indianapolis, Ind. Indianapolis Broadcasting, Inc.	WMBD 1440 500 Peoria, Ill. Peoria Broadcasting Co.
WKBH 1380 1000 LaCrosse, Wis. WKBH, Inc., 409 Main St.	WMBG 1210 100 Richmond, Va. Havens and Martin, Inc.
WKBI 1420 100 Cicero, Ill. WKBI, Inc., 6138 W. 22nd St.	WMBH 1420 100 Joplin, Mo. W. M. Robertson.
WKBN 570 500 Youngstown, Ohio. WKBN Broadcasting Corp.	WMBI 1080 5000 Chicago, Ill. Moody Bible Institute.
WKBO 1200 100 Harrisburg, Pa. Keystone Broadcasting Corp.	WMBO 1310 100 Auburn, N. Y. WMBO, Inc., Metcalf Bldg.
WKBV 1500 100 Richmond, Ind. Wm. O. Knox, Box 286	WMBQ 1500 100 Brooklyn, N. Y. Paul J. Gollhofer, 95 Leonard St.
WKBW 1480 5000 Buffalo, N. Y. Buffalo Broadcasting Corp.	WMBR 1370 100 Tampa, Fla. F. J. Reynolds, 907 Florida Ave.
WKBZ 1500 100 Ludington, Mich. Karl L. Ashbacher & Sons.	WMC 780 500 Memphis, Tenn. WMC, Inc., Hotel Gayoso.
WKEU 1500 100 LaGrange, Ga. Radio Station WKEU, 906 Hill St.	WMCA 570 500 New York, N. Y. Knickerbocker Broadcasting Co.
WKFI 1210 100 Greenville, Miss. J. Pat Scully, Box 302.	WMMN 890 250 Fairmont, W. Va. A. M. Rowe, Inc., 325 Main St.
WKJC 1200 100 Lancaster, Pa. Lancaster Broadcasting Service, Inc.	WMPC 1500 100 Lapeer, Mich. First Methodist Protestant Church.
WKOK 1210 100 Sunbury, Pa. Sunbury Broadcasting Co.	WMT 600 500 Waterloo, Iowa. Waterloo Broadcasting Co.
WKRC 550 1000 Cincinnati, Ohio. WKRC, Inc., Hotel Alms.	WNAC 1230 1000 Boston, Mass. Shepard Broadcasting Service, Inc.
WKY 900 1000 Oklahoma City, Okla. Oklahoma Publishing Co.	WNAD 1010 500 Norman, Okla. University of Oklahoma.
WKZO 590 1000 Kalamazoo, Mich. John E. Fetzer, Burdick Hotel.	WNAX 570 1000 Yankton, S. D. The House of Gurney, Inc., 2nd and Capital Sts
WLAC 1470 5000 Nashville, Tenn. Life & Casualty Insurance Co.	WNBK 1500 100 Binghamton, N. Y. Howitt-Wood Radio Co., Inc.
WLAP 1200 100 Louisville, Ky. American Broadcasting Corp. of Ky.	WNBH 1310 100 New Bedford, Mass. New Bedford Broadcasting Co.
WLB 1250 1000 Minneapolis, Minn. University of Minnesota.	WNBO 1200 100 Silver Haven, Pa. John Brownlee Spriggs. (Washington, Pa.)

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WNBR 1430 500 Memphis, Tenn. Memphis Broadcasting Co., Hotel DeVoy.	WQAM 660 1000 Miami, Fla. Miami Broadcasting Co., Inc., 327 N. E. 1st Ave.
WNBW 1200 10 Carbondale, Pa. WNBW, Inc., 50 Main St., N.	WQAN 680 250 Scranton, Pa. Scranton Times, 149 Penn Ave.
WNBX 1260 250 Springfield, Vt. WNBX Broadcasting Corp., 39 Main St.	WQAO 1010 250 New York, N. Y. Marcus Loew Booking Agency.
WNBZ 1290 60 Saranac Lake, N. Y. Smith & Mace, 70 Broadway.	WQBC 1360 600 Vicksburg, Miss. Delta Broadcasting Co., Hotel Vicksburg.
WNEW 1250 1000 Newark, N. J. Wodaam Corp., 1060 Broad	WQDM 1370 100 St. Albans, Vt. A. J. St. Antoine and E. J. Regan.
WNOX 660 1000 Knoxville, Tenn. WNOX, Inc.	WQDX 1210 100 Thomasville, Ga. Stevens Luke, 135 E. Jackson St.
WNRA 1420 100 Muscle Shoals, Ala. Kathryn Jones	WRAC 1370 100 Williamsport, Pa. WRAC, Inc., 244 W. 4th St.
WNYC 810 500 New York, N. Y. Dept. of Plant and Structures.	WRAM 1370 100 Wilmington, N. C. Wilmington Radio Assn., Princess St.
WOAI 1190 60000 San Antonio, Texas. Southern Industries, Inc., 1038 Navarro.	WRAP 1310 100 Reading, Pa. Reading Broadcasting Co., 533 Penn St.
WOBU 680 750 Charleston, W. Va. WOBU, Inc., Ruffner Hotel.	WRAX 1020 250 Philadelphia, Pa. WRAX Broadcasting Co., 217 S. Broad St.
WOC- 1000 50000 Des Moines, Iowa. WHO Central Broadcastg. Co., 914 Walnut St.	WRBL 1200 100 Columbus, Ga. WRBL Radio Station, Inc.
WOCL 1210 50 Jamestown, N. Y. A. E. Newton, 840 N. Main St.	WRBX 1410 250 Roanoke, Va. Richmond Development Corp.
WODX 1410 500 Mobile, Ala. Mobile Broadcasting Corp., Battle House.	WRC 850 600 Washington, D. C. National Broadcasting Co., Inc.
WOI 640 5000 Ames, Iowa. Iowa State College.	WRDO 1370 100 Augusta, Me. WRDO, Inc., Augusta House.
WOKO 1430 500 Albany, N. Y. WOKO, Inc., Hotel Ten Eyck.	WRDW 1500 100 Augusta, Ga. Virgil V. Evans Co., 309 8th St.
WOL 1310 100 Washington, D. C. American Broadcasting Co., Annapolis Hotel.	WREC 600 600 Memphis, Tenn. WREC, Inc., Hotel Peabody.
WOMT 1210 100 Manitowoc, Wis. Francis M. Kadow, Box 326.	WREN 1220 1000 Lawrence, Kans. Jenny Wren Co., 8th and Vermont St.
WOOD 1270 500 Grand Rapids, Mich. Kunsky-Trendle Broadcasting Corp.	WRHM 1250 1000 Minneapolis, Minn. Minnesota Broadcasting Corp., 115 E. Grand.
WOPI 1500 100 Bristol, Tenn. Radiophone Broadcasting Station WOPI, Inc.	WRJN 1370 100 Racine, Wis. Racine Broadcasting Corp., Hotel Racine.
WOQ 1300 1000 Kansas City, Mo. Unity School of Christianity.	WRNY 1010 250 New York, N. Y. Marcus Loew Booking Agency.
WOR 710 5000 Newark, N. J. Bamberger Broadcasting Service, Inc.	WROL 1310 100 Knoxville, Tenn. Stuart Broadcasting Corp., 524 S. Gay.
WORC 1280 500 Worcester, Mass. Alfred F. Kleinclenst, 60 Franklin St.	WRR 1280 500 Dallas, Texas. City of Dallas, Hilton Hotel.
WORK 1000 1000 York, Pa. York Broadcasting Co., 15 S. Beaver St.	WRUF 830 5000 Gainesville, Fla. State University.
WOS 630 500 Jefferson City, Mo. State Highway Control, Capitol Bldg.	WRVA 1110 5000 Richmond, Va. Larus & Bro. Co., Inc., 22nd and Gary St.
WOSU 670 750 Columbus, Ohio. Ohio State University.	WSAI 1330 1000 Cincinnati, Ohio. Crosley Radio Corp., 1329 Arlington.
WOV 1130 1000 New York, N. Y. International Broadcasting Corp.	WSAJ 1310 100 Grove City, Pa. Grove City College
WOW 690 1000 Omaha, Neb. Woodmen of the World, 4th and Farnam.	WSAN 1440 250 Allentown, Pa. WSAN, Inc., 39 10th St.
WOWO 1160 10000 Fort Wayne, Ind. Main Auto Supply Co., 213 W. Main.	WSAR 1450 250 Fall River, Mass. Doughty & Welch Electric Co., Inc.
WPAD 1420 100 Paducah, Ky. Paducah Broadcasting Co., Inc.	WSAZ 1190 1000 Huntington, W. Va. WSAZ, Inc., 929½ 4th Ave.
WPAP 1010 250 New York, N. Y. Marcus Loew Booking Agency.	WSB 740 50000 Atlanta, Ga. Atlanta Journal, 7 N. Forsyth St.
WPEN 1500 100 Philadelphia, Pa. William Penn Broadcasting Co.	WSBC 1210 100 Chicago, Ill. Gene T. Dyer, 1258 S. Michigan Ave.
WPFB 1370 100 Hattiesburg, Miss. Otis P. Eure, Box 530.	WSBT 1230 500 South Bend, Ind. South Bend Tribune.
WPG 1100 5000 Atlantic City, N. J. Columbia Broadcasting System.	WSEN 1210 100 Columbus, Ohio. Columbus Broadcasting Corp., 144 S. High.
WPHR 1200 100 Petersburg, Va. WLBG, Inc., Medical Arts Bldg.	WSFA 1410 500 Montgomery, Ala. Montgomery Bldg. Co., Inc., Jeff. Dav. H'l.
WPRO 1210 100 Providence, R. I. Cherry & Webb Broadcasting Co., 15 Chestnut.	WSIX 1210 100 Springfield, Tenn. 638 Tire & Vulcanizing Co.
WPTF 680 5000 Raleigh, N. C. Durham Life Insurance Co.	WSJS 1310 100 Winston-Salem, N. C. Winston-Salem Journal Co., 416 N. Marshall.

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WSM 650 60000 Nashville, Tenn. National Life & Accident Insurance Co.	XEA 1000 250 Guadalajara, Jal. Alberto Palos Souza. Juan Manuel 383
WSMB 1320 500 New Orleans, La. WSMB, Inc., Malsen Blanche Bldg.	XEAB 1450 7.5 Nuevo Laredo, Tams. Homberto Gardal.
WSMK 1380 200 Dayton, Ohio. S. M. Krohn, Jr., 4th and Main St.	XEAC 1295 100 San Luis Potosi, S.L.P. Francisco de P. Cabrera.
WSOC 1210 100 Charlotte, N. C. WSOC, Inc., Box 730.	XEAE 980 800 Tijuana, B. C. Adolfo Labastida, Jr., Ave. D 542.
WSPA 1420 100 Spartanburg, S. C. Virgil V. Evans, Ravenel and Avant St.	XEAF 990 750 Nogales, Son. Manuel Mascareñas M., Hotel Central.
WSPD 1340 1000 Toledo, Ohio. Toledo Broadcasting Co., 505 Jefferson	XEAI 1090 100 Mexico City, D. F. Carlos Gonzales Caballero, Insurgentes 366.
WSUI 880 500 Iowa City, Iowa. State University of Iowa.	XEAO 560 100 Mexicali, B. C. Luis L. Castro, C. Altamirano 156.
WSUN 620 1000 St. Petersburg, Fla. Florida Westcoast Broadcasting Co., Inc.	XEAW 965 10000 Reynosa, Tams. Internacional Broadcasting Co., S. A.
WSVS 1370 60 Buffalo, N. Y. Seneca Vocational High School.	XEB 1030 10000 Mexico City, D. F. El Buen Tono, S. A., Buen Tono No. 6.
WSYB 1500 100 Rutland, Vt. Phillip Welles Music Co., 80 West St.	XEC 1000 50 Toluca, D. F. Jesus R. Benavides, Independencia 76.
WSYR 570 250 Syracuse, N. Y. Central New York Broadcasting Corp.	XED 1155 500 Guadalajara, Jal. Radiofonografica de Guadalajara, S. A.
WTAD 1440 500 Quincy, Ill. Illinois Broadcasting Corp., State and 6th.	XEF 735 150000 Villa Acuna, Coah. Compania Radiodifusora de Acuna, S. A.
WTAG 590 750 Worcester, Mass. Worcester Telegram Publishing Co.	XEFA 1250 500 Mexico City, D. F. Eduardo Limon Segui, Mediterraneo 236
WTAM 1070 50000 Cleveland, Ohio. National Broadcasting Co., Inc.	XEFB 1315 100 Monterrey, N. L. Jesus Quintanilla, 5 de Mayo Oriente 112.
WTAQ 1330 1000 Eau Claire, Wis. Gillette Rubber Co., Hotel Eau Claire.	XEFC 1050 100 Merida, Yuc. J. Molina Font, Calle 59, 517.
WTAR 780 500 Norfolk, Va. WTAR Radio Corp., Wainwright Bldg.	XEFE 985 100 Laredo, Tams. Rafael T. Carranza.
WTAW 1120 500 College Station, Texas. Agricultural and Mechanical College.	XEFG 1085 500 Mexico City, D. F. Ricardo Gonzales Montero, Tepic 43
WTAX 1210 100 Springfield, Ill. WTAX, Inc., 416 E. Capitol Ave.	XEFI 1260 250 Chihuahua, Chih. Feliciano Lopez Isles, Ap. 157.
WTBO 1420 100 Cumberland, Md. Associated Broadcasting Corp., Box 794.	XEFJ 1000 100 Monterrey, N. L. R. Junco de la Vega, C. Morelos Oriente 759.
WTEL 1310 100 Philadelphia, Pa. Foulkrod Radio Engineering Co., Inc.	XEFO 940 5000 Mexico City, D. F. Partido Nacional Revolucionario.
WTFI 1450 500 Athens, Ga. Liberty Broadcasting Co., Costa Bldg.	XEFS 1000 40 Queretaro, Qre. Salvador Sanchez, Calle Montes 23.
WTIC 1060 50000 Hartford, Conn. Travelers Broadcasting Service Corp.	XEFV 1400 100 Jaurez, Chih. J. Onofre Meza, Ave. Lerdo Norte 521.
WTJS 1310 100 Jackson, Tenn. Sun Publishing Co., Sun Bldg.	XEFW 1280 70 Tampico, Tams. J. Expedito Martinez, C. Madero Poniente 19.
WTMJ 620 1000 Milwaukee, Wis. The Journal Co., 333 W. State St.	XEFZ 1370 100 Mexico City, D. F. Manuel Zetina
WTNJ 1280 500 Trenton, N. J. Trenton Broadcasting Co., Stacy Trent Hotel	XEH 1132 250 Monterrey, N. L. Tarnava y Cia, P. Mler 215.
WTOC 1260 500 Savannah, Ga. Savannah Broadcasting Co., Inc., DeSoto Hotel.	XEI 1310 250 Morelia, Mich. Carlos Gutierrez M., F. I. Madero 545
WTRC 1310 50 Elkhart, Ind. Truth Radio Corp., Hotel Elkhart.	XEJ 1015 500 Juarez, Chih. Juan G. Buttner, Ave. Lerdo 309.
WVFW 1400 500 Brooklyn, N. Y. Paramount Brdcastg. Co., 1 Nevins St.	XEK 990 100 Mexico City, D. F. Arturo Martinez. Jalapa No. 51
WWAE 1200 100 Hammond, Ind. Hammond Calumet Broadcasting Corp.	XEL 1000 40 Saitillo, Coah. Antonio Garza Castro, Aldama 59
WWJ 920 1000 Detroit, Mich. Evening News Assn., 616 Lafayette Blvd.	XEN 711 1000 Mexico City, D. F. Cerveceria Modelo S. A., Motolinia 22.
WWL 850 10000 New Orleans, La. Loyola University, Roosevelt Hotel.	XENT 1115 150000 Nuevo Laredo, Tams. Cia Industrial Universal S. A., Apt. 47.
WWNC 570 1000 Asheville, N. C. Citizen Broadcasting Co., Inc., Flatiron Bldg.	XEO 940 5000 Mexico City, D. F. Partido Nacional Revolucionario.
WWRL 1500 100 Woodside, N. Y. Long Island Broadcasting Corp.	XEOK 760 2500 Tijuana, B. C. Carlos de la Sierra, (Box 1441, San Diego).
WWSW 1500 100 Pittsburgh, Pa. Walker & Downing Radio Corp.	XEP 780 500 Mexico City, D. F. Cia Difusora de Mexico S. A., Durango 74.
WWVA 1160 5000 Wheeling, W. Va. West Virginia Broadcasting Corp.	XEPN 585 75000 Piedras Negras, Coah. Piedras Negras Broadcasting Co.
WXYZ 1240 1000 Detroit, Mich. Kunsky-Trendle Broadcasting Corp.	XER 735 150000 Villa Acuna, Coah. Compania Radiodifusora de Acuna, S. A.

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	KES 1020	250 Tampico, Tams.			XEZ 630	500 Merida, Yuc.
		Fernando Sada, Hotel Inglaterra.				Bartolome Garcia Correa, Calle 58 No. 497.
	KET 890	500 Monterrey, N. L.			XFB 1280	1000 Jalapa, Ver.
		Cadena Radiodifusora Mexicana, S. A.				Gobierno del Estado de Veracruz.
	KETB 1380	125 Torreon, Coah.			XFC 805	350 Aguascalientes, Ags.
		Jose A. Berumen, R. Corona 317.				Gobierno del Estado de Aguascalientes.
	KETH 880	100 Puebla, Puc.			XFG 838.3	2000 Mexico City, D. F.
		Ramon Huerta G., Calle 17, Oriente 6.				Secretaria de Guerra y Marina.
	KETU 890	100 Pachuca, Hdge.			XFO 940	5000 Mexico City, D. F.
		Benito Castillo				National Revolucionario Party.
	KETW 830	500 Mexico City, D. F.			AFX 840	500 Mexico City, D. F.
		Rafael M. Pena, Gante 4, 3er piso				Secretaria de Educacion Publica.
	KETZ 1210	500 Mexico City, D. F.			YV1BC 960	5000 Caracas, Venez.
		Jose Alvarez del Villar, 92 Londres 190.				Cla Ama Almacan Americana.
	KEU 1010	100 Veracruz, Ver.			YV2BC 882	100 Caracas, Venez.
		Fernando Pazos Sosa, Vicario 12.				
	KEW 910	5000 Mexico City, D. F.			YV3BC 1200	1000 Caracas, Venez.
		Cadena Radiodifusora Mexicana S. A.				Degwitz & Siblesz.
	KEWW 1100	250 Veracruz, Ver.			10-AK 1200	15 Stratford, Ont.
		Horacio Remes, Calle Canal 42.				M. I. Higgins, 151 Ontario St.
	KEX 630	50 Monterrey, N. L.			10-BF 1200	15 Wingham, Ont.
		Luis F. Petit Jean, Aldama 932 Sur.				W. T. Crulokshank.
	KEY 546.8	10 Merida, Yuc.			10-BQ 1200	15 Brantford, Ont.
		Partido Socialista del Surest.				Tom and Harold Brown.
	KEYZ 780	1000 Mexico City, D. F.			10-BU 1200	15 Canora, Sask.
		Angel M. Diez, Ave. Jusrez 48.				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

W2XE-WABC , Wayne, N. J. (New York, N. Y.)	
15.253 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.	
W3XAU-WCAU , 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

W1XAL-WEEI 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.	
W2XAD-WGY , Schenectady, N. Y. (Schenectady, N. Y.)	
15.320 19.57 Mon., Wed., Fri., Sun., 4-5 p.m.	
W2XAF-WGY , Schenectady, N. Y. (Schenectady, N. Y.)	
9.530 31.46 7:45 to 11 p.m.	
W9XAA-WCFL , Chicago, Ill. (Chicago, Ill.)	
17.780 16.88 Very Irregular	
11.840 25.35 Irregular	
6.076 49.34 3 to 6 p.m.	

NATIONAL "BLUE" NETWORK

W1XAZ-WBZ-WBZA , 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	
W3XL-WJZ Boundbrook, N. J. (New York, N. Y.)	
6.425 46.66 Fri., 5 p.m. to 1 a.m.	
W8XK-KDKA 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

VE9DR-CFCF Montreal, Quebec (Montreal, Quebec)	
6.095 49.93 Sun., noon to 11:15 p.m. Other days, 7:30 a.m. to midnight	
VE9GW-CRCT 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.	
W4XB-WIOD Miami Beach, Fla. (Miami Beach, Fla.)	
6.036 49.67 Irregular	
W8XAL-WLW Mason, Ohio (Cincinnati, Ohio)	
6.060 49.48 Irregular	
W9XF-WENR , 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)

WWSW	ae	100	(.25)	Pittsburgh, Pa.	E-8:00-11:45
...	z	100	P (.25)	Chelsea, Mass.	E
...	z	100	DP	Hot Springs, Ark.	C

1510 kilocycles 198.6 meters

CFRC	ak	100	.....	Kingston, Ont.	E
CKCR	ak	100	.....	Kitchener, Ont.	E-10-1:30; 4-11

AROUND *the* CLOCK on *the* SHORT WAVES

MIDNIGHT TO NOON (EST)

GMT	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00
AST	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
EST	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
CST	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
MST	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
PST	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
	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 VK3ME 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 VE9JR VK2ME W1XAZ W8XK YV2AM	CT3AQ DJB DJD GSB GSF Pont. VE9DR VE9GW W1XAL W1XAZ W8XK	CT3AQ DJB DJD GSA I2RO Pont. VE9DR VE9GW VE9JR W1XAL W1XAZ W2XE W8XK

NOON TO MIDNIGHT (EST)

GMT	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	1:00	2:00	3:00	4:00
AST	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
EST	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
CST	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
MST	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
PST	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
	DJB DJD GSA GSB Pont. I2RO VE9DR VE9GW VE9JR W1XAL W2XE W3XAL W3XAU W3XAU W8XK	DJB DJD GSC GSD I2RO Pont. RNE VE9DR VE9GW VE9JR W1XAL W2XE W3XAL W3XAU W8XK W9XF	DJB DJD GSC GSD I2RO OXY Rabat VE9DR VE9GW VE9JR W1XAL W2XE W3XAL W3XAU W8XK W9XF	DJB DJD GSC GSD HAT I2RO OXY Pont. Rabat RV59 VE9DR VE9GW VE9JR W1XAL W2XE W3XAL W3XAU W8XK	CT1AA DJD DJB GSA GSC GSD I2RO OXY Pont. Rabat RV59 VE9DR VE9GW VE9JR W1XAL W2XAD W3XAL W3XAU W8XK	CT1AA DJD DJA DJD EAQ GSA GSC HBL HBP HIZ I2RO OXY Pont. RV59 VE9DR VE9GW VE9HX W1XAL W8XK W9XF YV3BC	CP5 CT1AA DJA DJA EAQ GSA GSC HBL HBP HJ1ABB Pont. VE9DR VE9GW VE9GW W1XAL W1XAL W2XE W3XAL W8XK W9XF YV3BC	CP5 DJA EAQ GSA GSC HJ1ABB HJ2ABA HJ4ABE Pont. VE9DR VE9GW W1XAL W1XAL W2XF W2XF W3XAL W8XK W9XF YV3BC	CP5 DJA DJC G6RX HC2RL HIX HJ1ABB HJ2ABA HJ3ABD 4ABB 4ABE Pont. VE9DR VE9GW VE9HX HKN PRADO VE9DR VE9GW VE9JR W1XAL W2XF W2XE W3XAL W8XK YV3BC	CP5 DJC HC2RL HJ... 3ABB Pont. PRADO VE9DR VE9GW VE9HX VE9JR W1XAL W1XAZ W2XF W2XE W3XAL W8XK XETE	CP5 HJ... 4ABB Pont. VE9DR W1XAZ W3XAU 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.
 CT8AQ, 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, 11.983
 *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, 11.865. 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.
 GGRX, England, 4.972. Testing nights 4:30-8 to 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, 7.872. Sat., 5:30 to 6:15 p.m.
 HC2JSB, 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.
 *HCJB, Ecuador, 3.998. 8:14 to 10:14 daily, exc. Mon.
 HCK, Ecuador, 5.694. 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
 HJ1ABB, Colombia, 6.447. 5 to 10 p.m.
 HJ2ABA, Colombia, 5.879. 7:30 to 10 p.m.
 HJ3ABD, Colombia, 7.402. 9-11:15 p.m., daily
 HJ4ABB, 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.
 HJ5ABB, 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. 11:15 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, 10.270
 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
 VE9AO, 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
 *YVR, 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. 6.150. 10:30 a.m. to 1 p.m. and 4:30-9:30 p.m.; Sun., 8:30 a.m. to noon and 3-6:30 p.m.
 *ZFA, Bermuda, 5.045
 *ZFB, Bermuda, 10.060
 ZFS, Bahamas, 4.513
 ZGE, Malaysia, 5.996. Tues., Fri., 6:30-8:30 a.m. and Sun., 7-9 a.m.

The Short Wave Stations

(Continued from page 37)

		KGPN, Davenport, Iowa	6.670	44.95	KFY, Forward Base, Little America
		KGPW, Salt Lake City, Utah			KFZ, Main Base, Little America
		KGZG, Des Moines, Iowa	6.718	44.62	WDB, Rocky Point, N. Y., Exp.
		KGZT, Santa Cruz, Calif.	6.725	44.57	WQO, Rocky Point, N. Y., Exp.
		KGZU, Lincoln, Nebr.	6.733	44.53	KEQ, Kahuku, Hawaii, phone
		WPDP, Philadelphia, Pa.	6.740	44.48	WEJ, Rocky Point, N. Y., Exp.
		WPDZ, Fort Wayne, Ind.	6.755	44.38	WOA, Lawrenceville, N. J., phone
		WPEC, Memphis, Tenn.	6.860	43.71	KEL, Bolinas, Calif., Exp.
		WPEM, Woonsocket, R. I.	6.928	43.27	WEZ, Rocky Point, N. Y., Exp.
		WPFO, Knoxville, Tenn.	6.935	43.23	WEB, Rocky Point, N. Y., Exp.
		WPPR, Johnson City, Tenn.	6.950	43.13	WKP, Rocky Point, N. Y., Exp.
		WPFV, Pawtucket, R. I.	6.958	43.09	WEO, Rocky Point, N. Y., Exp.
		WRDQ, Toledo, Ohio	7.370	40.67	KEB, Bolinas, Calif., Exp.
		..... Cranston, R. I.			WJN, Rocky Point, N. Y., Exp.
		..... Las Vegas, Nev.	7.400	40.51	WEM, Rocky Point, N. Y., Exp.
		..... Palo Alto, Calif.	7.415	40.43	WEG, Rocky Point, N. Y., Exp.
		..... South Bend, Ind.	7.520	39.87	KDK-KKH, Kahuku, Hawaii, phone
2.506	119.64	KGZE, San Antonio, Tex., State police	7.520	39.40	KWX, Dixon, Calif., phone
		..... Portable in Wash.	7.610	38.40	KEE, Bolinas, Calif., Exp.
		..... Seattle, Wash. State police	7.715	38.86	WOO, Ocean Gate, N. J., Ship phone
		..... Snoqualmie Pass, Wash., police	8.820	33.99	KFY, Forward Base, Little America
2.530	118.51	KOW, Seattle, Wash., Harbor phone	8.840	33.92	KFZ, Main Base, Little America
		WOX, St. George, N. Y., Harbor phone	8.930	33.57	WAD-WEC, Rocky Point, N. Y., Exp.
2.542	117.94	KLH, San Francisco, Calif., Harbor phone	8.940	33.54	KZGG, Cebu, P. I., Inter-island phone
2.590	115.76	KOU, Wilmington, Calif., Ship phone	8.950	33.50	WKL, Rocky Point, N. Y., Exp.
		WOU, Green Harbor, Mass., Ship phone	9.010	32.28	WEL, Rocky Point, N. Y., Exp.
3.387	88.50	KGYA-KGYB, Longmire, Wash., Forestry station	9.102	33.23	KFJ, Bolinas, Calif., Exp.
		KGYC, Paradise, Wash., Forestry station	9.170	32.78	KZGF, Manila, P. I., Inter-island phone
3.410	87.92	WRJ, Poe Reef Lighthouse, Mich.	9.448	31.74	WNA, Lawrenceville, N. J., phone
		WST, Dry Tortugas Lighthouse, Fla.	9.460	31.79	WES, Rocky Point, N. Y., Exp.
		WWAJ, Manitou Isl. Lighthouse, Mich.	9.470	31.66	WKJ, New Brunswick, N. J., phone
		WWAL, Passage Isl. Lighthouse, Mich.	9.480	31.62	WET, Rocky Point, N. Y., Exp.
		WWAM, Rock of Ages Lighthouse, Mich.	9.490	31.62	WDA, Rocky Point, N. Y., Exp.
		WWAO, Huron Isl. Lighthouse, Mich.	9.530	31.59	KZGH, Hoilo, P. I., Inter-island phone
		WWE, Fourteen Foot Shoals, Mich.	9.585	31.46	WEF, Rocky Point, N. Y., Exp.
		WWG, Cheboygan Range, Mich.	9.750	30.75	W2XAF, Schenectady, N. Y.
		WWH, Stannard Rock Lighthouse, Mich.	9.870	30.38	W3XAU, Philadelphia, Pa. (Byberry)
		WWM, Marquette Lighthouse, Mich.	9.990	30.01	WOF, Lawrenceville, N. J., phone
		WWN, Detroit River Lighthouse, Mich.	10.317	28.09	WON, Lawrenceville, N. J., phone
		WWR, Detroit, Mich., Lighthouse	10.370	28.91	KAZ, Manila, P. I., phone
		WWZ, Key West, Fla., Lighthouse	10.400	28.83	WNB, Lawrenceville, N. J., phone
3.423	87.59	WOZ, New York, N. Y.	10.410	28.80	WCG, Rocky Point, N. Y., Exp.
4.253	70.50	WKF, Lawrenceville, N. J., phone	10.560	28.83	KEZ, Bolinas, Calif., Exp.
		WOG, Ocean Gate, N. J., Ship phone	10.610	28.25	WBA, Rocky Point, N. Y., Exp.
4.273	70.17	WOO, Ocean Gate, N. J., Ship phone	10.630	28.20	WED, Rocky Point, N. Y., Exp.
4.276	70.11	WIR, Rocky Point, N. Y., Exp.	10.830	27.68	KWV, Dixon, Calif., phone
4.307	69.60	WTDV, St. Thomas, Virgin Islands	11.880	25.67	KIO, Kahuku, Hawaii, Exp.
		WTDW, St. Croix, Virgin Islands	11.780	25.45	W1XAL, Boston, Mass.
5.263	56.96	WQN, Rocky Point, N. Y., Exp.	11.823	25.36	W2XE, New York, N. Y. (Wayne, N. J.)
5.505	54.46	WQN, Rocky Point, N. Y., Exp.	11.870	25.25	W8XK, Pittsburg, Pa. (Saxonburg)
5.765	52.01	KZGF, Manila, P. I., Inter-island phone	11.950	25.08	KKQ, Bolinas, Calif., Exp.
5.795	51.74	KZGH, Hoilo, P. I., Inter-island phone	12.840	23.35	WOO, Ocean Gate, N. J., Ship phone
5.825	51.47	KZGG, Cebu, P. I., Inter-island phone	12.930	23.18	WAW, Hialeah, Fla., phone
		WQN, Rocky Point, N. Y., Exp.	13.185	22.74	KFY, Forward Base, Little America
5.845	51.30	KRO, Kahuku, Hawaii, phone	13.200	22.71	KFZ, Main Base, Little America
5.850	51.25	WOB, Lawrenceville, N. J., phone	13.245	22.64	KFY, Forward Base, Little America
6.057	49.50	W3XAU, Philadelphia, Pa. (Byberry)	13.260	22.61	KFZ, Main Base, Little America
6.060	49.48	W8XAL, Cincinnati, Ohio (Mason)	13.390	22.39	WMA, Lawrenceville, N. J., phone
6.096	49.17	W3XAL, New York, N. Y. (Boundbrook, N. J.)	13.420	22.34	WHR, Rocky Point, N. Y., Exp.
6.100	49.15	W9XF-W9XQ, Chicago Ill. (Downers Grove)	13.435	22.31	WKD, Rocky Point, N. Y., Exp.
6.116	49.02	W2XE, New York, N. Y. (Wayne, N. J.)	13.450	22.28	WEX, Rocky Point, N. Y., Exp.
6.140	48.83	W8XK, Pittsburg, Pa. (Saxonburg)	13.465	22.26	WKC, Rocky Point, N. Y., Exp.
6.425	46.66	W3XL, Boundbrook, N. J., Exp.	13.480	22.24	WAJ, Rocky Point, N. Y., Exp.
6.425	46.66	W9XF, Downers Grove, Ill., Exp.	13.690	21.90	KKZ, Bolinas, Calif., Exp.
6.610	45.36	WMEP, Akron, Ohio, Airway Exp.	13.780	21.75	KKW, Bolinas, Calif., Exp.
6.618	45.30	WVD, Seattle, Wash., phone	13.840	21.66	WPE, Rocky Point, N. Y., Exp.
6.650	45.09	KFY, Forward Base, Little America	13.855	21.63	WQU, Rocky Point, N. Y., Exp.
		KFZ, Main Base, Little America	13.870	21.61	WIV, Rocky Point, N. Y., Exp.
6.660	45.02	KFY, Forward Base, Little America	13.900	21.57	WQP, Rocky Point, N. Y., Exp.
		KFZ, Main Base, Little America	13.915	21.54	WQS, Rocky Point, N. Y., Exp.
6.662	45.00	WXH, Ketchikan, Alaska, phone	14.470	20.72	WMF, Lawrenceville, N. J., phone
			14.590	20.55	WMN, Lawrenceville, N. J., phone
			14.800	20.26	WQV, Rocky Point, N. Y., Exp.
			14.815	20.23	WQL, Rocky Point, N. Y., Exp.

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. (Saxonburg)
15.248	19.72	W8XK, Pittsburg, Pa. (Saxonburg)	21.575	13.89	KFY, Forward Base, Little America
15.242	19.67	W1XAL, 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
16.038	18.71	KKP, Kahuku, Hawaii, phone	54.000	5.55	Call letters as follows:
16.260	18.44	WLK, Lawrenceville, N. J., phone			Manawahua, 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.)			CANADA
			Megs.	Meters	
17.860	16.78	WQC, Rocky Point, N. Y., Exp.	1.710	175.30	CFN, Grande Prairie, Alta., Police
17.880	16.76	WQL, Rocky Point, N. Y., Exp.			CFO, Lethbridge, Alta.
17.900	16.75	WLL, Rocky Point, N. Y., Exp.			CFU, Peace River, Alta.
17.920	16.73	WQF, Rocky Point, N. Y., Exp.			CGJ, Edmonton, Alta.
17.940	16.71	WQB, Rocky Point, N. Y., Exp.			UYR, Montreal, P. Q.
18.020	16.64	KQJ, Bolinas, Calif., Exp.			UZE, Victoria, B. C.
18.350	16.34	WLA, Lawrenceville, N. J., phone			UZF, Vancouver, B. C.
18.860	15.89	WKM, Rocky Point, N. Y., Exp.			UZG, Prince Rupert, B. C.
18.880	15.88	WQH, Rocky Point, N. Y., Exp.			UZH, Kamloops, B. C.
18.900	15.86	WDS, Rocky Point, N. Y., Exp.			UZL, Nelson, B. C.
18.920	15.84	WQE, Rocky Point, N. Y., Exp.			UZM, Prince George, B. C.
18.940	15.83	WTT, Rocky Point, N. Y., Exp.			UZN, Cranbrook, B. C.
18.960	15.81	WQD, Rocky Point, N. Y., Exp.	2.414	124.17	CFN, Grande Prairie, Alta., Police
18.980	15.79	WFX, Rocky Point, N. Y., Exp.			CFO, Lethbridge, Alta.
19.220	15.60	WKF, Lawrenceville, N. J., phone			CFU, Peace River, Alta.
19.816	15.14	WKN, Lawrenceville, N. J., phone			CGJ, Edmonton, Alta.
19.980	15.01	KAX, Manila, P. I., phone			CGS, Calgary, Alta.
20.100	14.91	WQY, Rocky Point, N. Y., Exp.			CJW, St. John, N. B.
20.180	14.85	WQX, Rocky Point, N. Y., Exp.			CKT, Penticton, B. C.
20.260	14.79	WQQ, Rocky Point, N. Y., Exp.			UYW, Winnipeg, Man.
21.054	14.24	WKA, Lawrenceville, N. J., phone			UZE, Victoria, B. C.
21.060	14.24	KWN, Dixon, Calif., phone			UZF, Vancouver, B. C.
21.220	14.13	WQA, Rocky Point, N. Y., Exp.			UZG, Prince Rupert, B. C.
21.240	14.12	WQJ, Rocky Point, N. Y., Exp.			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, Chicouti mi, 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.

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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.

		UZL, Nelson, B. C.	4.942	62.70	CZA, Drummondville, P. Q., Ship phone
		UZM, Prince George, B. C.	6.005	49.93	VE9DR, Montreal, P. Q.
		UZN, Cranbrook, B. C.	6.015	49.85	VE9CX, Wolfville, N. S.
2.481	120.80	CGK, Ft. Chipweyan, 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. Chipweyan, 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.			UZM, 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.
		UZM, Prince George, B. C.			UZF, Vancouver, B. C.
		UZN, Cranbrook, B. C.			UZG, Prince Rupert, B. C.
4.751	63.10	CGK, Ft. Chipweyan, Alta., Airway			UZH, Kamloops, B. C.
		UYM, Ft. Rae, N. W. T., Airway			UZI, Nelson, B. C.
		UYN, Ft. McMurray, Alta., Airway			UZM, 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. Chipweyan, 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. Chipweyan, 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
		UZM, 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. 2-8-16-23

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—WQQ, Kansas City, 1300 (1)
 3:00-9:00—KPCC, 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

595 CMW 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 CMJP 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 CMGJ Havana, Cuba, from 1185
 1200 CJAT 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 CFRK Kingston, Ont., from 915
 1510 CKCR Kitchener, Ont., from 645

POWER

540 CJRM Moose Jaw, Sask., 500 to 1000
 580 WOBU Charleston, W. Va., 500 to 750
 580 WTAG Worcester, Mass., 500 to 750
 600 CFCO Chatham, Ont., 100 to 50
 690 CJCJ Calgary, Alta., 500 to 100
 730 CJCA Edmonton, Alta., 500 to 1000
 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 CHECK Charlottetown, P. E. I., 100 to 50

NEW

1290 San Juan, P. R.
 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 GFTP 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 WENC Americus, Ga., to Albany, Ga.

REINSTATED

630 XEZ Merida, Yuc.
 1200 CHAB Moose Jaw, Sask.

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