

THE SEPTEMBER 1932

# RADIO IN DEX

THE ALL-WAVE RADIO MAGAZINE



25<sup>c</sup>

Sunday Time on the Air for All Stations  
Short Wave Stations of the World by Countries  
What the New Season Offers in All-Wave Receivers  
The New Fall Hour-by-Hour Chain Programs  
Do Verifications Really Verify?

No. 61

N. S. E.

# SEPTEMBER DX CALENDAR

## 1 — THURSDAY

11:00 PST CHWK Chilliwack, B. C.  
12:00-2:30 EST WMIL Brooklyn, N. Y.

## 2 — FRIDAY

11:30-1:00 MST KGEK Yuma, Colo.  
11:30-12:30 CST WCAJ Lincoln, Neb.  
12:00-2:00 PST CFJC Kamloops, B. C.  
1:00-3:00 EST CKCL Toronto, Ont.

## 3 — SATURDAY

11:00-12:00 CST WKY Oklahoma City  
11:30 PST CKWX Vancouver, B. C.  
11:30 EST KDKA Pittsburgh, Pa.  
11:30-2:00 CST WBBZ Ponca City, Okla.  
12:00-2:00 EST WCAH Columbus, Ohio  
12:00-2:00 EST WGBI Scranton, Pa.  
12:00 EST WWRL Woodside, N. Y.  
12:30-2:30 CST WOW Omaha, Neb.  
1:00-5:00 CST WJAK Elkhart, Ind.

## 4 — SUNDAY

12:00-1:00 EST WSAZ Huntington, W. Va.

## 5 — MONDAY

10:30-10:45 CST WMAQ Chicago, Ill.  
12:00-2:00 MST KOY Phoenix, Ariz.  
12:00-2:30 EST WMIL Brooklyn, N. Y.

## 6 — TUESDAY

11:00-12:00 CST XEH Monterrey, Mex.  
12:00-2:00 PST CFJC Kamloops, B. C.  
3:00 EST WOPI Bristol, Tenn.

## 7 — WEDNESDAY

11:00-12:00 CST WHBL Sheboygan, Wis.  
11:30 PST CKWX Vancouver, B. C.

## 8 — THURSDAY

12:00-2:30 EST WMIL Brooklyn, N. Y.

## 9 — FRIDAY

11:30-1:00 MST KGEK Yuma, Colo.  
11:30-12:30 CST WCAJ Lincoln, Neb.  
12:00-2:00 PST CFJC Kamloops, B. C.  
1:00-3:00 EST CKCL Toronto, Ont.

## 10 — SATURDAY

11:00-12:00 CST WKY Oklahoma City  
11:30 PST CKWX Vancouver, B. C.  
11:30 EST KDKA Pittsburgh, Pa.  
11:30-2:00 CST WBBZ Ponca City, Okla.  
12:00 CST KUSD Vermillion, S. D.  
12:00-2:00 EST WCAH Columbus, Ohio  
12:00-2:00 EST WGBI Scranton, Pa.  
12:00 EST WWRL Woodside, N. Y.  
12:30-2:30 CST WOW Omaha, Neb.  
1:00 EST KQV Pittsburgh, Pa.  
1:00-5:00 CST WJAK Elkhart, Ind.

## 11 — SUNDAY

12:00-1:00 EST WSAZ Huntington, W. Va.

## 12 — MONDAY

10:30-10:45 CST WMAQ Chicago, Ill.  
12:00-2:00 MST KOY Phoenix, Ariz.  
12:00-2:30 EST WMIL Brooklyn, N. Y.

## 13 — TUESDAY

11:00-12:00 CST XEH Monterrey, Mex.  
12:00-2:00 PST CFJC Kamloops, B. C.

## 14 — WEDNESDAY

11:00-12:00 CST WHBL Sheboygan, Wis.  
11:30 PST CKWX Vancouver, B. C.  
3:00-5:00 CST KFBI Abilene, Kans.

## 15 — THURSDAY

12:00-2:30 EST WMIL Brooklyn, N. Y.

## 16 — FRIDAY

11:30-1:00 MST KGEK Yuma, Colo.  
11:30-12:30 CST WCAJ Lincoln, Neb.

## 16 — FRIDAY — Continued

12:00-2:00 PST CFJC Kamloops, B. C.  
1:00-3:00 EST CKCL Toronto, Ont.

## 17 — SATURDAY

11:00-12:00 CST WKY Oklahoma City  
11:30 PST CKWX Vancouver, B. C.  
11:30 EST KDKA Pittsburgh, Pa.  
11:30-2:00 CST WBBZ Ponca City, Okla.  
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12:00-2:00 EST WGBI Scranton, Pa.  
12:00 EST WWRL Woodside, N. Y.  
12:30-2:30 CST WOW Omaha, Neb.  
1:00 EST KQV Pittsburgh, Pa.  
1:00-5:00 CST WJAK Elkhart, Ind.

## 18 — SUNDAY

12:00-1:00 EST WSAZ Huntington, W. Va.

## 19 — MONDAY

10:30-10:45 CST WMAQ Chicago, Ill.  
12:00-2:00 MST KOY Phoenix, Ariz.  
12:00-2:30 EST WMIL Brooklyn, N. Y.

## 20 — TUESDAY

11:00-12:00 CST XEH Monterrey, Mex.  
12:00-2:00 PST CFJC Kamloops, B. C.

## 21 — WEDNESDAY

11:00-12:00 CST WHBL Sheboygan, Wis.  
11:30 PST CKWX Vancouver, B. C.

## 22 — THURSDAY

12:00-12:30 EST WMIL Brooklyn, N. Y.

## 23 — FRIDAY

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11:30-12:30 CST WCAJ Lincoln, Neb.  
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1:00-3:00 EST CKCL Toronto, Ont.

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12:00-2:00 EST WCAH Columbus, Ohio  
12:00-2:00 EST WGBI Scranton, Pa.  
12:00 EST WWRL Woodside, N. Y.  
12:30-2:30 CST WOW Omaha, Neb.  
1:00 EST KQV Pittsburgh, Pa.  
1:00-5:00 CST WJAK Elkhart, Ind.  
2:00-4:00 CST KDLR Devils Lake, N. D.

## 25 — SUNDAY

12:00-1:00 EST WSAZ Huntington, W. Va.

## 26 — MONDAY

10:30-10:45 CST WMAQ Chicago, Ill.  
12:00-2:00 MST KOY Phoenix, Ariz.  
12:00-2:30 EST WMIL Brooklyn, N. Y.  
2:00-3:00 MST KPOF Denver, Colo.

## 27 — TUESDAY

11:00-12:00 CST XEH Monterrey, Mex.  
12:00-2:00 PST CFJC Kamloops, B. C.  
1:30-2:30 CST WCLQ Janesville, Wis.

## 28 — WEDNESDAY

11:00-12:00 CST WHBL Sheboygan, Wis.  
11:30 PST CKWX Vancouver, B. C.

## 29 — THURSDAY

12:00-12:30 EST WMIL Brooklyn, N. Y.

## 30 — FRIDAY

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11:30-12:30 CST WCAJ Lincoln, Neb.  
12:00-2:00 PST CFJC Kamloops, B. C.  
1:00-3:00 EST CKCL Toronto, Ont.

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Address.....

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

Please mention RADEX

SEPTEMBER 1, 1932



# RADIO IN DEX

REG. U. S. PATENT OFFICE

FRED CLAYTON BUTLER

Editor and Publisher



NINTH YEAR

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# LET'S LISTEN to ALL the WAVES

FOR a number of years radio listeners have tuned their sets to the broadcasts made within the limits of the 200 to 550 meters wave band. If they wished to hear the fascinating short waves between 15 and 200 meters, it became necessary to use a special set made for the purpose. Then arrived an era of the short-wave "Adapter," which prevented standard broadcast receivers from being discarded when short waves were tuned in. Soon the "Converter" appeared, and this device quickly became combined with the broadcast receiver in a more slightly and efficient arrangement. But radio engineers still were not satisfied; they wanted a compact receiver capable of tuning in *all* stations on both short and long waves with the same simplicity displayed in modern radio broadcast receivers.

Now the goal has been reached, and we have the single-control "all-wave" receiver capable of tuning within the limits of 15 to 550 meters. And this fall and winter will see still greater improvement, and the development of world-wide radio reception on all waves. A twist of a dial and the setting of a wave selector knob tunes instantly from some short-wave station half way around the world to a favorite nearby broadcast studio. When a modern "all-wave" receiver is used the listener changes quickly by means of the wave changing knob through several groups of wave bands. This presents one extra operation which is very simple. The purpose is mentioned more fully at another point.

## The All-Wave Receiver

At the present time much short-wave and all-wave reception is in the hands of the professional listener and other enthusiastic fans who are more seriously inclined, such as the many thousands of real DXers who tune carefully from station to station in search of records and thrills of distance. Many listeners in the broadcast class do not understand or realize the possibilities of short-wave reception and the international all-wave radio thrills that abound in the air.

## The New Sets

By B. FRANCIS DASHIELL

And it is for this reason that a number of large radio concerns have not as yet commenced the commercial production of all-wave sets; they continue to cater to the wants of the large class of broadcast listeners. But a number of other and more progressive radio set builders, we might say, are working seriously in designing remarkably efficient all-wave receivers for a large and growing class of buyers. The coming winter months will see more and more of the strictly broadcast listeners turning to the fascination of all-wave reception.

## Changing Coils

It is a difficult thing to design a satisfactory radio set embodying super-heterodyne principles that will operate on alternating current and bring in clearly all short waves between 15 and 200 meters. When this was first accomplished by means of changeable or "plug-in" coils in tuned radio frequency circuits the feat was hailed by delight. But, at



*Virginia Rea, who gained fame as "Olive Palmer," is returning to radio as featured soloist with Paul Whiteman. NBC-WEAF, Aug. 26th and every third Friday thereafter.*

last, this operation has been eliminated by the development of single control tuning and a switching method of remarkable efficiency, which is used in principle on all of the modern "all-wave" receivers. The sole remaining barrier is that which is set up by nature, for static, serious fading, and the strange skip phenomenon, are conceded on all hands to be with us always. Man may never overcome their disheartening effects.

#### Automatic Band Selection

Without question the important feature in all-wave receivers is the modern wave changing method. We all know that it is far from practicable to use only one large inductance coil to cover all wave bands below 200 meters as is now done in the broadcast set for the 200-550 meters wave band. Manually operated coils of the plug-in variety, as previously used in adapters and converters, solved the coil problem for a while. Then was developed, first for a converter about a year or so ago, a method of wave changing by mounting the individual coils on a chassis with a switching arrangement so they could be cut in or out at will. This scheme, of course, has been known for a long time, but its inherent fault was the distributed capacity and other effects in the leads and switch and coil dead-ends which spoiled all attempts at efficient tuning on the shorter waves.

The modern all-wave receiver accomplishes its tuning through a single dial control. There are no additional movements for the purpose of adjusting the tuning condensers or to compensate for inequalities in capacities in critical low-wave circuits. This is a remarkable achievement, and the only additional controls operate volume, local-distance, and power. The coil switching system automatically takes care of all wave-band changes, and is controlled by a four point switch lever or knob on the panel. The moving of this lever permits the listener to change immediately to any one of the short-wave groups into which the circuit is divided: Namely, 15-25 meters, 25-60 meters, 60-200 meters, and the standard 200-550 meters broadcast channel.

If a station, say, of 46 meters is to be tuned in, the switch lever is set on the 25-60 meters coil, and the dial tuned to the 46 meters short-wave figures of the proper sector. Great care of calibration in the newer all-wave sets is such that stations will be found very close to the actual frequency ratings. When a set is used as a regular broadcast receiver the switch is set to the 200-550 meters coil position, and the dial calibration between 550 and 1500 kilocycles used. The whole method is so simple that a child can tune to any desired frequency in the all-wave bands.

There are a number of excellent "All-Wave" radio receivers on the market, and, without doubt, more will be seen during the winter and at the usual radio shows. The following list presents a few of the outstanding characteristics of the well-known receivers which have actual performance records of amazing distant station logs.

#### Some of the New Sets

The new Scott (E. H. Scott Radio Laboratories, Inc., 4450 Ravenswood Ave., Chicago, Ill.) de-luxe all-wave receiver covers the wave bands between 15 to 550 meters. It has 12 tubes in all, nine of which are in the tuner proper, and three in the audio and power unit. The tuner has one tuned radio-frequency stage, first and second detectors, oscillator, three intermediate-frequency stages, two audio-frequency stages with push-pull amplification.

The Pilot company (Pilot Radio & Tube Co., Lawrence, Mass.) has a



remarkable all-wave set known as the "Dragon." It is a superheterodyne of compact construction and uses but six tubes. It covers the wave bands from 18 to 550 meters with nine coils and single control. Its outstanding achievement is the wave changing switch of 46 contacts which moves to four positions. The unused "catacomb" coils are automatically and electrically isolated from the circuit so as to avoid all dead-end losses.

The Lincoln (Lincoln Radio Corporation, 329 South Wood Street, Chicago, Ill.) de-luxe receiver (SW 33) covers the entire all-wave band with single dial control between 15 to 550 meters. The dial has a variable ratio to enable critical tuning on the short waves. The set uses volume control, 11 tubes, and three stages of push-pull give it remarkable signal strength on weak and distant stations. A visual meter tells when the set has been tuned to its greatest resonance and efficiency. This tends to reduce all background, or the noise level, to a minimum, and the signal may better be heard.

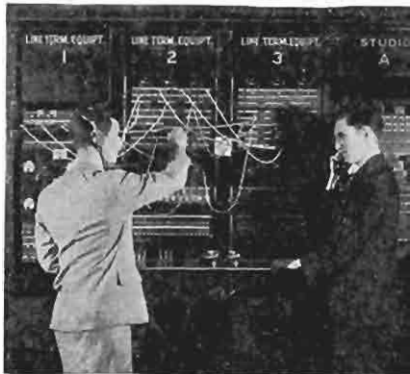
#### The Hammarlund Comet



The Hammarlund (Hammarlund-Roberts, Inc., 424 West 33rd St., New York City) all-wave set is known as the "Comet," and it covers the band between 15 and 550 meters. The circuit employs eight tubes with single control. The Stewart-Warner Company, and the Midwest Radio Corporation, build all-wave receivers, but some of these, as well as those by other manufacturers, use the older scheme of two-dial tuning, which means the set is a combination of converter and broadcast receiver in one cabinet.

For a description of the new Silver-Marshall 728-SW all-wave receiver, see (Continued on page 18)

# WHAT YOU NEED TO SUCCEED IN RADIO



Courtesy of the National Broadcasting Company

RADIO is a highly specialized business. As it develops it is becoming more exacting in its demands. But radio is the modern field of opportunity for those who keep step with its progress!

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# Do VERIFICATIONS Really VERIFY?

**W**HAT a tempest in a tea-pot was stirred up by the publication in the May and June issues of this magazine, of the claims of certain reception. We refer particularly to those of Messrs. Halpern, Lilley and Caddell. We have received a dozen or more letters from DXers whose emotions were mightily aroused. Most of these were too peevish to print and all of them would fill two or three editions of this journal, one correspondent alone requiring nine pages of typewritten matter properly to relieve his feelings. Why all the excitement and ill-temper? Every reader certainly has the right to object to any and all claims published in RADEX but why get so excited about it?

These critics accuse your Editor of knowing nothing whatever about DXing or he would know what is possible and what is not. Let us say here that there is no man in the world wise enough to know whether any claim of DX reception is possible or not. Radio is altogether

## How Shall We Prove Reception?

too peculiar to be analyzed. Probably every DXer in the country has at some time or other brought in a certain station which he had never before nor since been able to get. Now according to these good critics, if a listener tunes in any station he should always thereafter be able to produce that station. Some of these writers even suggest that committees be appointed to visit the claimant and insist that he tune a station in as proof that he once had it. That would be like a fisherman saying: "Come out to the river tomorrow and I will pull in a forty pound muscallonge" or the golfer inviting his friends to watch him next Tuesday afternoon make a hole in one!

### Is There a Yard-Stick?

Another favorite argument is, if a New Zealand station can be brought in in Brooklyn why can't it be brought in in California, which is much nearer. There are still listeners who think of DXing in terms of distance. According to them, no one further from the station than they themselves are can possibly bring in a station they cannot get. This argument is so far-fetched that it is useless to try to meet it. Everyone who ever turned a dial has brought in certain stations of lower power or greater distance than those ordinarily received. One writer went so far as to claim that no Japanese station could be heard east of the Mississippi River. Just how he figured that the Jap's signals stop at the Mississippi is not known. Another admitted that 1000-watt Australians might be heard in the eastern part of the country but nothing smaller. If 1000 watts can come through why not 900 or 800 or even 100 or 50? Just how does one go about it to figure the wattage necessary to carry signals a certain distance?

The editor freely confesses that he cannot look at a record and say definitely that it is or is not true. There are certain spots in the country where it seems to be impossible for KDKA to be heard. Should



Adele Vasa, diminutive soprano, on the Columbia Cathedral Hour



the editor before publishing a report of the reception of KDKA try to decide whether or not it is possible for KDKA to be heard in that particular vicinity? It is manifestly absurd for this magazine to try to prove the authenticity of the claims that are published and certainly we do not intend to do so.

#### Counting the Tubes

Another favorite formula of the critics is to calculate possibility of reception upon the number of tubes in a set. If, they argue, a ten-tube set doesn't get a certain station, how then can one with only two tubes? The writer has brought in a certain minor Cuban station with a one-tube set of his own construction which station he has never been able to bring back with eight and even twelve tubes in exactly the same location and using the same aerial and ground. Who will explain this and how would your editor go about it trying to decide the validity of a claim of such reception?

The writer is fast coming to the conclusion that every radio signal in the world is present in the ether everywhere and that as our knowledge of radio science advances and our sets become more and more sensitive, we will pick up signals we have never had before just as each new and greater telescope brings out stars that we never knew existed.

#### What Would a Lie Profit?

While there may be some so-called DXers who lie about their catches, we feel sure the number of such is extremely small. Can one imagine a coin collector going around bragging about possessing some rare coin which he does not own or a stamp collector claiming to have a rare stamp which he never even saw? If certain readers claim reception they never made, they will destroy themselves sooner or later. Give them rope enough and they will hang themselves. But a claim of reception that seems to be properly verified is DX news and as such it belongs in RADEX and there it will be found. If it is a dishonest claim, that is too bad and we are very sorry but we do not purpose keeping DX news from our readers for fear some unearned credit will go to a faker.

The sad thing about all these letters



*Mary Roberts Rinehart's famous story, "Tish," is now on the air — NBC-WJZ three times weekly. "Tish" Marion Barney, center; "Lizzie," Helen Lowell, left; "Aggie," May Buckley, right.*

is that they take the position that verifications do not verify. They point out that Halpern, Lilley, and Caddell may have some wireless amateur in the various countries send them code messages giving them sufficient information upon which to base a claim of reception. They accuse these DXers of getting information regarding programs from the magazines published in various countries. RADEX receives these magazines from England to Australia and never yet have we received one that contained a program that was not already over before the magazine got here. It is not RADEX that will destroy DXing, even though it occasionally published a dishonest claim. If DXing is destroyed it will be by those who take the position that verifications do not verify. Let the impression become general that stamps and verifications are worth nothing and where does that leave DX?

This discussion has brought many letters of commendation as well as condemnation and other verifications of most unusual reception. We had intended to publish these here but perhaps it would be better to play safe and reproduce them under Ripley's well-known title of "Believe it or Not."

# LITTLE STORIES of the BIG STARS

**T**HE McCravy Brothers, of Laurens, South Carolina, may sing songs of the south and of the soil, but they insist most emphatically that they are not hillbillies.

Frank and James never did much radio work before they came to the N.B.C. studios for an audition. They had been on local stations in different parts of the country at various times, but for the most part they were busy with recording contracts. Their phonograph records, incidentally, have passed the two million mark.

The boys have been singing together ever since Jim, the younger, graduated from Furman University, in South Carolina. Since that time they have appeared in forty-one states before various



*Harmonizing heart songs in their soft Southern manner, the McCravy Brothers. Jim and Frank, are heard each Monday and Tuesday, 11 p.m., EDST., Sunday, 8 p.m., over NBC-WJZ network.*

clubs and at church benefits. They also have been on the Chautauqua circuit.

Although their air programs consist mostly of unique song duets with occasional solos, they entertain their friends

## "Betty's" Page of Radio Gossip

off the air in other ways. Frank is an accomplished amateur magician and likes to tell stories in Negro dialect. Jim plays the violin and guitar.

They were persuaded to come north for an audition by Louis Katzman, an NBC artist, who was associated with them in a recording studio. A surprising feature to the boys is the fact that much of their fan mail has come from New England and other northern areas. They expected to hear mostly from the south.

You have probably noticed that they offer sentimental, modern spirituals and semi-religious songs. They sing no "hot" tunes or "low-down stuff." They write many of their own numbers and do the arranging of their old favorites.

Nor are their activities limited to the business of entertaining. Frank has carried on an active political career. He has already served two years in the South Carolina General Assembly and has begun his second term. "So you see," says Frank, "we don't get much spare time, with the legislative sessions and everythin' but when we do get a day or so off we spend it fishin' or huntin'."

The McCravy Brothers may be heard over the NBC-WJZ network Sundays at 8 p.m., EDST, Mondays and Tuesdays at 11 p.m., EDST.

\* \* \*

Among the winners of the annual radio popularity contest, conducted by the Radio Editor of the New York Daily Mirror, were:

Norman Brokenshire, veteran announcer, with a total of 176,831 votes to lead the announcers' division and to take clear supremacy in the number of ballots accorded any entrant.

Ruth Etting, star of "Music That Satisfies," was made "Queen of Radio," with 96,510 votes. Other Columbia winners were Morton Downey in the male singers' group; Myrt and Marge in the talking skit division, and the Boswell Sisters in the harmony team section.

The victory achieved by Myrt and Marge was particularly outstanding because that program was off the air during the time the contest was being held.

Some of the NBC victors were Harry Richman, "King of Radio;" Rudy Vallee, "the most popular orchestra leader," and Baby Rose Marie, "Princess of the Air."

\* \* \*

Perhaps one of the reasons why Guy Lombardo's music comes over the air so well is that before each performance Guy, himself, supervises studio arrangements. A good many minutes before the other Royal Canadians reach their broadcasting chamber, their leader is on the job adjusting microphones and personally placing the chairs of his musicians.

\* \* \*

George Burns and Gracie Allen received an hilarious welcome upon their return from the west, where they had been making a picture with Bing Crosby, Eddie Lang, and other stars, called "The Big Broadcast." In the movie, George will be seen and heard as the studio manager, while Gracie will be seated at the information desk. Imagine the answers to fans' questions! Incidentally, Gracie, who knows her public, says that she'd rather have more fans in the summer than in the winter months—because, after all, fans are so much nicer to turn on when it's warm.

\* \* \*

Isham Jones has written many tunes, yet often is prevented by circumstances from airing them over the Columbia network. CBS rules require band leaders to submit selections in advance, with "first come, first served," to avoid monotony. New York conductors get the jump on Isham, who must mail his choices from Atlantic City. Invariably another has beaten him to his own compositions. Isham Jones, a pioneer in the popular field, has authored such hits as "I'll See You in My Dreams," "It Had to Be You" and "Indiana Moon." More recently, he went on a song-writing spree that produced three current successes—"I Can't Believe It's True," "Let's Try Again" and "If You Were Only Mine."

## Their First Jobs

Fred Uttal, the announcer, was an electrician and locksmith's helper, earning more in tips than in salary.

William Hall lent his stentorian tones to selling newspapers.

Col. Lemuel Q. Stoopnagle "pushed" lumber in his father's lumber yard.

Louis Dean clerked in his grandfather's general store at Valleyhead, Alabama, his remuneration being all the candy he could take without being seen.

Ruth Etting sang and danced in the chorus of a Chicago night club in order to earn her tuition for the Academy of Design.

Buddy Rogers worked for his father on the Olathe (Kansas) Mirror as reporter and printer's devil.

Ben Alley worked with a West Virginia road gang.

Freddie Rich played the piano fourteen hours a day in a New York movie house, earning eight dollars a week.

Singin' Sam left home to join a minstrel troupe and became known as the "Boy Basso."

Frank Knight ran messages for a banking house in St. John's, Newfoundland.

Kate Smith, as a result of winning several "Wednesday Night" contests, earned her first money in local vaudeville appearances. She was just eleven.

Harry von Zell sold hot-dogs at the beach in Venice, Calif.

Morton Downey sold candy, newspapers and magazines to commuters on the N.Y., N.H. & H. railroad.

The Boswell Sisters made an appearance in a New Orleans theater, but only two of them. The third was still too young.

Before Jack Fulton, the Croon Prince of Paul Whiteman's band, brought his trombone and tenor to radio he was a laundryman in his home town of Phillipsburg, Pa.

*Last-minute notice comes that Ben Bernie and "all the lads" will switch to NBC-WEAF Tuesday nights beginning September 13th. East of Salt Lake City, the time will be 9:00 to 9:30 EDST.; west of Salt Lake, 12:30 a.m., EDST. Forty stations will carry the contract with the "Alma Mater" for 52 weeks.*

# TROUBLES Common to ALL SETS

## The Technical Editor Comments and Advises

### Volume Control Wears Out

*The volume control on my Philco 87 set seems to wear out too frequently and soon becomes noisy. Why is this? Also, when I turn the dial of the set I get loud crackling and sputtering noises.*

There seems to be no good reason for the volume control wearing out as it does. It is a very simple form and carries no current, being a 10,000 ohm resistance connected between the aerial and ground with a sliding contact lever attached to the radio frequency or antenna coil. But this form of control will become noisy as soon as it is worn or loose and does not make a smooth sliding contact. Perhaps its construction is light and it does not stand constant manipulation. You must use a regulation ungrounded aerial with this set.

Noises heard when the dial is turned are caused by bits of dirt and dust between the plates of the variable condensers. The remedy is to clean between the plates. Also make sure that the plates do not rub at certain points. Examine the contacts between the rotor plates and the frame. All traces of grease and oil should be removed from the shaft. The contacts should be firm and electrically and mechanically continuous, for the least looseness will cause crackling sounds when the dial is turned.

### The Two-Volt Pentodes

*I have a new Crosley 8-tube "Playboy" receiver which uses the 2-volt tubes with an Air-Cell battery. It uses two -30s in push-pull, but I am wondering whether I can change these -30s to -33s (pentodes) in much the same way that -45s are changed to -47s. What do you recommend in my case?*

Of course you must not lose sight of the fact that this is a new and modern set and the tubes used in it are found to be best by the manufacturer. We believe however that the pentodes could be substituted for the -30s, or even -31s (power amplifiers) in place of the -30s

and the contemplated -33s. This arrangement might prove better than the two -33s in push-pull. When pentodes are used it is not always necessary to use the push-pull circuit, but simply one -33 alone. But there is a matter of B battery and filament drain on the air-cell battery. The -31s require 135 volts on the plate whereas the -30s require only 90. The -31s need a C bias of 22½ volts, but the -30s take only 4.5 volts. The filament of the -31 will consume twice as much A battery as the -30 tube, and the -33 pentode still more. Therefore it is battery economy and essential current drain watchfulness to use the -30s instead of -31s and -33s. Two -31s will draw .15 amperes more than two -30s. Your set as it now is will draw close to .47 amperes and when you add that needed for the -31 tubes or -33 pentodes the total consumption will be more than .62 to .70 amperes. The Air-Cell battery should never have a current drain in excess of .60 amperes. For this reason we do not recommend any change in the tubes used in push-pull, and we doubt very much whether additional tone and volume will be worth the battery exhaustion that is sure to follow.

### More About Two-Volt Tubes

*I use a Radiola model 20 set with four -99 tubes and one -20 power tube. The dry cells I use run down too fast. But since I have a 32-volt Delco light plant I am wondering if I can change to the two-volt tubes and use this 32-volt supply or if an Air-Cell battery would be best.*

The Air-Cell battery would be best for its voltage is very regular and constant. If you used the 32-volt supply it would be necessary to use a carefully built resistance and then the low voltage tubes might be subjected to serious fluctuations at times. If you get an Air-Cell battery you will need to replace the -99s with -30s and the -20 with a -31 tube. The new tubes will not draw as much current as the older ones. The B battery and C bias characteristics of the old -99s and -20 tube will be close enough to the two-volt tubes so that no



*Frederic William Wile, the famous political analyst of the CBS. Photo copyright by Harris & Ewing.*

change will be called for. Turn the present rheostats full way on, or remove them entirely, for no resistance is needed. A one ohm resistor may be placed in series with the Air-Cell battery for the first few weeks, or until the initial excess voltage has dropped to normal.

#### **Slow Heating and Fading**

*Why does my Zenith 52 set give a mushy and weak sound when it is first turned on? It takes about a minute for it to clear up. The volume drops several times and then comes back by itself, but I usually turn up the volume to bring back the music which does not stop entirely when it weakens.*

The tubes heat slowly and take some time to get in action. Perhaps they are old and need replacing. Your service man can test them and advise you. The fading in volume may be due to the natural cause, but we assume you are familiar with that. If it is in the set, and since the volume seems to indicate this, we suggest that you either replace or clean and grease the volume control, as explained in a preceding answer. Perhaps your current supply tends to fluctuate somewhat and causes the drop in volume.

#### **Non-Oscillating at All Frequencies**

*I have a two-tube regenerative set that has brought in 200 radio stations. It oscillates only from 750 to 1200 kilocycles. How can I make it regenerate over the balance of the broadcast band so as to get additional stations?*

Regenerative receivers frequently fail to oscillate over the higher frequencies, but seldom over the range you have mentioned. Not knowing the particular circuit you are using we are not able to advise you as to mechanical changes in your arrangement. But, the usual trouble is that the adjustable coil or tickler does not develop sufficient feed-back or coupling on the higher waves. On the shorter waves a smaller tickler will do the work, while on higher waves a larger tickler is needed. It is suggested that you add about 25 per cent more turns of wire to your present tickler, or slightly increase the B battery voltage on the plate of your detector tube if it can be done without causing the set to whistle or howl.

#### **Changing Power Tubes**

*How can I substitute a -45 tube for the -71A now in my Atwater Kent Model 44 set? I am anxious to get more power from this receiver.*

Remove the -71A tube from the socket and open either the red-green or black-green wire leading to one of the filament contacts of the socket. Insert a 2-ohm resistance unit in series with the circuit. This reduces the 5-volt supply to 2.5 volts required for the present -45 tube in place of the -71A. But as the -45 takes six times the amperage required by the -71A it may be that this circuit can not stand the extra current drain. If heating in the power unit or resistance and wires is noticed there is no alternative but to replace the -71A tube.

The wiring of your set is such that the change can only be made at some sacrifice of proper B voltage and C bias required by the -45. It is not practicable, however, to make alterations in the power pack or voltage divider to correct this deficiency.

#### **Screen Grid Regeneration**

*My Pilot Wasp A.C. receiver uses a -27 tube for detector. How can I change to*

a -24 screen-grid tube so as to control the regeneration in an easier manner?

There are two general methods of rewiring your circuit for the -24 tube and variable screen-grid voltage, namely the potentiometer method and the bleeder or series method. With the former the end leads of a potentiometer are connected to the 45-volt positive and negative ends of this portion of the power unit or B battery, and the slider goes to the screen-grid terminal of the tube socket. The potentiometer should have a value of about 50,000 ohms. Bypass the screen terminal with the usual  $\frac{1}{4}$  to  $\frac{1}{2}$  mfd. condenser. The grid, plate, filaments and cathode of the -24 tube are wired in the conventional manner.

The bleeder or series method is a controlled circuit using a 100,000 ohm variable resistance in series with the 45-volt positive screen grid lead, with a bypass condenser inserted as indicated above.

#### 25 Cycle Current

*I expect to move to another locality where only 25-cycle alternating current is available. As my present Philco radio set uses 60 cycle current I should like to know what changes may be necessary in my set to adapt it to 25 cycles?*

Your set cannot give satisfaction on 25 cycles. The slower alternations will not give the same voltage or amperage and the filtering portion of the set will not smooth out all the hum. The transformer in the power pack may need replacing with one wound differently for increased efficiency when 25 cycles are used. We advise you to write the Engineering Department of the Philadelphia Storage Battery Co., Philadelphia, Pa., and obtain their recommendations. As sets are made for both 25 and 60 cycle current, we are confident the makers can furnish the necessary changes.

#### Control Trouble

*When I turn up the volume of my set the signal or music cuts on and off, and seems loud then weak. There is considerable noise when working the control. What is the trouble?*

You have not given the make of your set, but we believe that the volume control is defective. If it is of the wire-wound type we suggest that you clean

the surface of the wire and the sliding arm, and then place a bit of clock oil on the wire and rub it over carefully. If the control is of the carbon type it may be packed and need replacing. You might also examine the tubes and sockets for loose or poor contacts.

#### Tuning Adjustment

*I undertook to clean the condensers, etc., of my Gloritone receiver, but it now tunes too broadly, some stations are out of position on the dial, and it tends to howl at times. Why is this and how can I make it as good as it was at first?*

Some displacement occurred when you cleaned the set. It is easy to do this. Make sure you do not have the control-grid and screen-grid connections reversed, and also that the proper control-grid (top) wires are connected to the proper tubes. If any of the coil connections are reversed this will cause a shifting of the dial readings.

It is quite possible that in the attempt to clean and adjust the tuning condensers you have permitted the dial to slip on the condenser shaft. The condensers may have gotten out of line due to displacement in the direction of rotation, or in an "off-center" displacement — back and forth — due to loose plate construction, uneven centering, or one or more bent plates. The celluloid band with its calibrations may have become displaced around the dial surface. Check these points carefully, and make sure you have replaced all connections correctly.

If the howling again reappears test the 0.1 mfd. condenser connected between the two detector plate resistors, and also the ground and grid connections. The condenser can be tested by shunting another across it temporarily.

#### Antenna Compensator

*My Zenith, model 35, receiver, has a control that is built like a variometer which puzzles me. Beyond 1200 kcs. I am compelled to manipulate it in order to get signals at their best. What is the purpose of this device?*

It is an antenna compensator because it balances to some extent the ability of your antenna to carry all frequencies of the broadcast band at the same time.

*(Continued on page 33)*

# "BELIEVE IT OR NOT"

**P**RESENTING as we do this month, some most unusual reports of reception of far-distant stations, and in view of the discussion as to the authenticity of other claims published in recent issues of this magazine, it seems quite appropriate to borrow Mr. Ripley's famous phrase as the title of this article. And speaking of "Rip," did you see his cartoon of May 8th, last, in which he reproduced a picture of William MacDonald, 644 Fourth Ave., Chula Vista, California? According to Ripley, Mr. MacDonald has heard 1225 stations in 65 countries on his radio! There's a record. In a letter to RADEX, Mr. MacDonald says: "During the past nine years that I have been DXing, I have never written a line myself for publication. I happened to be situated in a most excellent location, and having the time and the patience to develop the natural resources of the situation, I have attracted thousands of radio fans who came to my home to hear a little distance that

## More Difficult Diet for DXers

could not be heard elsewhere. The 'Believe It or Not' feature alone has brought me to date over 40,000 letters so please tell your readers that it would be physically impossible for me to reply to those who write in but that I appreciate their interest.

"I do not profess to know anything more about radio than anyone else, relying wholly upon natural elements, namely, a good location and equipment that is maintained at the highest point of efficiency. My set is an now-out-of-date Magnaformer and is no better than hundreds of like sets except that it was carefully constructed, a feature that I have found to be lacking in the vast majority of kit sets that have come under my observation."

## Radio Gardens of Eden

It would seem that, just as there are "blind spots" in which radio reception is practically impossible, so there are locations favored of the gods in which sets may reach out to unbelievable distances. Undoubtedly Mr. MacDonald is located in one of these gardens of Eden of Radio. Our readers will recall that other great California DXer whose marvelous records have appeared in this magazine from time to time, Mr. Ollie Ross, of Vallejo, California. We have another interesting letter from Mr. Ross from which we quote:

"I certainly enjoyed the article about the Doubting DXers. There are thousands of DXers who think that if they cannot tune in a certain station, why it is impossible for anyone to do so." Mr. Ross goes on to quote some of his most unusual receptions and sends us the verifications he received in confirmation of them. One of them is from C46 of Montivideo, Uruguay, then a 50-watter. We quote from their letter in their own vernacular: "On the hour and the day that you say, we played the two phonograph reproductions. Re the large distance that we are separate from your country



Ed Sullivan, celebrated Broadway columnist, now in "Gem Highlights," CBS Sundays, 10 p.m., EDST.

(10,500 km.) we would estimate that you please confirming the transmission that we above explain also if you can heard daily or temporarily or anything particulars that you think convenient at the conclusion of that so we can publicate on one of daily paper in our city." Another written entirely by hand is from TJW, a 12-watter in Hamilton, Bermuda: "Received your very kind letter and would like to let you know how much we appreciated your writing us. It is almost impossible to believe that you could have received our broadcast, as our station is probably the smallest commercial broadcasting station in the world with an output of only twelve watts, and your letter from California came as a most pleasant surprise to us in Bermuda. Our station was started to provide entertainment for our local residents during the summer months when we are bothered by static excessively . . ." Another is from Prague, Czecho-Slovakia, although the name of the station is not given: "We have indeed sent, on the 21st ult., a program with the violin recitals you have received as well as the regular announcement of program you mentioned."

#### Here's a Real Record

"Some time before leaving for Europe on my recent trip," Mr. Ross goes on, "I tuned in on station WOKO, Poughkeepsie, N. Y., about 10:00 a.m. PST., or 1:00 p.m., EST., and sent for verification which was sent back to me via air mail. Their curiosity was aroused by this daytime reception and they wrote asking various questions concerning the reception of their station as well as to make of set I used, etc., and mentioned the fact that they considered it almost a miracle that I should receive their program so well at that time of day. I decided to try to show them a real miracle and so I tuned them in every day for a solid week from 11:00 a.m. to 2:00 p.m., PST. and had the entire week of reception verified. Over 2,000 miles across the continent, daytime reception, day after day for a whole week is really a feat unbelievable but it is true nevertheless." We agree with Mr. Ross. Due to some atmospheric freak, some one low-powered and far-distant station may

come in once on any set never to be tuned in again, but to tune in a 500-watt station in the middle of the day — not once, but seven days in succession — on a frequency (then 1440) used by four other stations, including a Californian, certainly requires a "Believe It or Not." Here is the verification:

"Thanks for your very complete and descriptive letter of our programs for one week. It is indeed gratifying to get such a report from you. I must say that you either live in a very wonderful location or have something in the line of a receiving set of which I have not heard. If all the radio listeners made the effort and submitted comprehensive reports to stations such as you have, it would be about the most gratifying thing in the world for the broadcaster."

#### Two More Claim 2ZI

The report of the reception of the 10-watt 2ZI in Hastings, New Zealand, by Karl J. Halpern, of Brooklyn, N. Y., in the May RADEX sent a dozen DXers on the warpath with tomahawks waving. Now comes Robert R. Rawstron, of Claremont, N. H. (and incidentally Frank A. Johnson, of Chicago) to share



Dean of Chicago announcers, Harlow Wilcox, of the CBS





*Jacques Fray and Mario Braggiotti, piano duo heard each Friday over CBS at 10:15 p.m. Mondays at 9:45 p.m., EDST.*

with Mr. Halpern the ignominy of this reception! Says Mr. Rawstron: "Browsing through the midsummer issue and noting that ye olde skeptic is once more in print, brings back memories of my first RADEX in September, 1930. I saw records printed therein which I doubted very, very much. To one who has never heard a foreign station, doubting the reception of one who has is a very natural reaction; so I am sure those whose records were assailed will hold no permanent antipathies. To further close the discussion regarding Mr. Halpern's 2ZI reception, will say that I am one of the U.S. trio who has verifications from 2ZI. Mr. Halpern heard him first, then Frank A. Johnson, of Chicago, and lastly the writer."

#### **"In Every Way Correct"**

Following we quote from Mr. Rawstron's verification: "We must apologize for not answering your report of the 25th of January, 1932, on our broadcast of that date, but we have been to quite a deal of trouble getting this verified as to time, etc., and find it to be in every way correct. Now, sir, we wish to thank

you for this report, and strangely enough by the same mail we received a report from Mr. F. A. Johnson, of Chicago, on another broadcast which is also correct in every detail. This brings our total to three American reports now and we are 'tickled to death' to think that our station, which is rated in power at only fifteen watts, should reach U.S.A." To this 2ZI adds: "To Whom It May Concern: This is to verify that the report of R. R. Rawstron, of Claremont, N. H., was mailed to us less than seven hours following his 2ZI reception and on the same day by his local postmark." Mr. Rawstron states that a later letter from 2ZI gives the information that Mr. Johnson has just submitted a report of a second reception giving him two verifications for this small station.

#### **A Letter from 3GL**

Upon receipt of letters questioning the reception of 3GL, Geelong, Australia, by Richard D. Caddell, Pittsburgh, we wrote to that station asking if they felt sure from Mr. Caddell's report that he had actually received them. They write: "We can quite understand that Mr. Caddell's claim to have picked up our station would create a good deal of comment. Although Mr. Caddell did not give a detailed report of our programme, he gave sufficient for us to accept his word that he had picked the station up. Although our power is only 50 watts, this is the aerial rating and would mean 150 or 200 watts input, and as we have also received a report from a listener in Philadelphia and another in Vancouver, we are quite willing to believe that Mr. Caddell has been successful in bringing in our station. Geelong is situated about 45 miles from Melbourne on the sea coast and we receive many reports from New Zealand about 1200 miles away, and Western Australia nearly 2,000 miles away. In regard to Mr. Heuter (of Philadelphia) we received a report from him in December advising us that he picked up our station but as were were not satisfied, we asked for a further report which he has since sent us and we believe that it is correct."

From George Lilley, West Chester, Pa., whose report of reception of LR-5, a 500-watter in Buenos Aires, Argentine,

was among those criticized, comes a defense of Mr. Caddell and a fair summary of the controversy. He writes: "As far as Caddell and his Rio de Janeiro verifications are concerned, I feel perfectly sure that he really received those stations. Although I do not know Mr. Caddell personally, I have no doubt as to the accuracy of his reception. I realize that the early evening hours are best for reception from South America and that those stations can be heard so early in the evening. The reception is very logical as when it is 9 p.m., EST., it is 11 p.m. in Rio de Janeiro. I myself heard CX-26, Montivideo, Uruguay, at 7 p.m., EST. Because the average fan cannot get the Pacific Coast at this time of day (because it is only 4 p.m., PST., and broad daylight there) he fails to see how a more distant station in South America can be tuned in at that time of day. The answer is, of course, that it is later than 7 p.m. at the point of transmission and there is darkness all the way between the transmission and reception points. A fan may reason that when he can just pick up a whisper from some Pacific coast station, how in the world can another fellow receive a station not only as far as the Pacific, but also all the way across the Pacific. His conclusion is that it can't be done. His conclusion may seem logical but it just isn't correct.

"There are those in the DX game who may use false methods in obtaining their verifications. However, I think that a careful study of the verification will in most cases show up the owner. There are those who cheat in any game; they are not only hurting themselves, but making the sport of the real DXer a hard one to travel. I think myself that the cheaters are very few; the skeptics seem to be the more numerous. Some fellows just will not believe that something can be done which they cannot do, and even when shown positive proof, they will say 'No.'"

#### **More Verifications for the 2-Tuber**

Mr. Lilley submits more of his verifications and while they have no bearing on his reception of LR-5, they do indicate a successful DXer. We quote from a few of them:

"We have looked up our records and the times mentioned by you, which synchronize with 8:24 p.m. to 8:30 p.m. (our time) show that 2BL was just concluding a Church Service and the short prayer of about one minute's duration, was the benediction. This service was broadcast from the Killara Congregational Church and you are to be congratulated on your excellent reception on a two-tube receiver." 2BL is located in Sydney, Australia, and broadcasts on 855 kcs. with 1000 watts.

"We thank you for your letter dated 8th May reporting having received our station on that date. We have checked up on our Station Log and find details given by you to be correct. Your report is a most interesting one and, seeing that your set is only a two tube, our engineers consider your reception of this station to be phenomenal." This is from 4BH, Brisbane, Australia, on 1380 kcs. with 600 watts.

"We are in receipt of your letter of the 1st ultimo reporting reception of our 3LO programme which checks up with our log." 3LO is in Melbourne, Australia, on 800 kcs., with 1000 watts.

"We are in receipt of your letter post-marked April 5th reporting reception from 4RK on this same morning. Reference to our log confirms your report and we have pleasure in congratulating you." 4RK is in Rockhampton, Australia, on 910 kcs. with 2000 watts.

#### **Here's One from New Zealand**

We will now close this discussion by quoting from a letter regarding reception the other way around, that is by a reader in Dunedin, New Zealand, of the U.S.A. stations. This reader is F. H. A. Bartlett, operator of Radio Station 4ZO and vice-president of the New Zealand DX Club. He begins by saying: "I came into contact with your wonderful publication through hearing KFEQ in St. Joseph, Mo. They published my report in the local newspaper and a radio fan there (Mr. Jacob N. Mitchell) sent me out a copy. I live in the city of Dunedin, but do not do much of my DXing there as there is generally too much interference from power lines, electric trams, etc. I therefore go out of town during the

*(Continued on page 18)*

# The Puzzle Page

**I**N spite of the three months given to find the correct solutions to the June puzzles, only a few readers succeeded in solving all of them. The designer's solution of No. 1 was:

WWWKWWNW  
MONTREAL  
TLJMRWAS

Several readers solved this problem correctly with the word "Brooklyn."

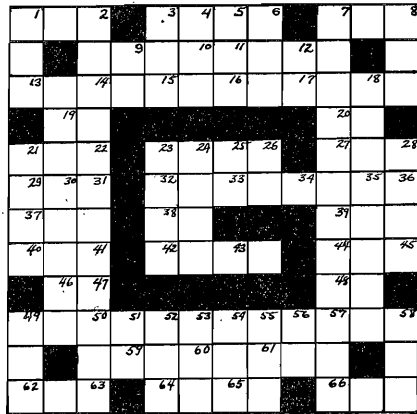
In the mathematical puzzle, No. 2, RADEX was transposed into 07518 and PRESS into 60144.

It was the palindrome, No. 3, which gave most of our readers their trouble. Several reported that it couldn't be worked and one usually successful solutionist offered to take a year's subscription if a solution was possible. (Note to the Circulation Manager: Add one more subscription.) Here is the correct answer: WMCA, CJCJ, WWVA, KWCR, CKCR, KWEA WWAE, WKRC, KCRC, WKAU, WWJ, CJCA, CMW.

Following is the correct solution of the No. 4 Cross-call:

CKWO JOKK  
CKWX O WORK  
AOK HRB LOW  
WKBV WA BW WGBB  
CKY KF OS HIX  
YWNC IS AV WWSW  
AHW KVL SBH  
AWIS O WBAA  
KPCB WJBK

We warned our readers several months ago that the puzzle well was running dry. The Editor himself has only a vacuum left and the desired help from our readers has not been forthcoming. There are only a limited number of calls that may be used in forming cross-call puzzles particularly in the corners of the squares and new cross-calls are becoming more or less repetitive of those that have gone before. We will however continue to publish from time to time those which are submitted by our readers materially different from those already published. The offer of free copies of RADEX, however, is withdrawn, as the



solution of a single cross-call is too simple a task.

The "G" puzzle is submitted this month by Edward L. Walters, Roanoke, Va. In this problem Mr. Walters has concealed the names of four states. All of the calls appeared in the June issue.

## Key

### Across

- 1 Pacific agricultural.
- 3 A newspaper station.
- 7 Insurance fraternity.
- 13 In two states.
- 15 Frequency is 15 times the power.
- 17 A 30-watter.
- 19 Middle two of station on 1370.
- 20 Ditto on 1420.
- 21 One of the fifties.
- 23 Ten kilowatts.
- 27 Shares wave with two Illinois stations.
- 29 Last three of Colorado.
- 32 Benson Polytechnic.
- 34 A railroad station.
- 37 Last three of Dispatch-Herald.
- 38 Last two of Peorian.
- 39 4th, 3rd and 1st of Cuban.
- 40 Dots and dashes.
- 42 A 100-watter on 1500.
- 44 3rd, 2nd and 1st of North Carolinaian.
- 46 Last two of Albanian.
- 48 First two of 17.
- 49 Power same as frequency.
- 52 Johnson-Kennedy radio.
- 56 One k.w. on 1250.
- 62 101 watts.
- 64 Italian educational.
- 66 Radio investment.

### Down

- 1 A blue with one k.w.
- 2 Holt-Rowe Broadcasting.
- 3 NBC with 500.
- 4 Westinghouse.
- 5 1st, 3rd and 4th in B. C.
- 6 Ditto in Pennsylvania.
- 7 CBS.
- 8 750 watts.
- 9 Last two of agricultural school.
- 12 2nd and 4th in B. C.
- 21 In I-26.
- 22 Columbia on 1430.
- 23 Down towards zero.

- 24 A newspaper with 250 watts.
- 25 Middle letters of two.
- 26 Last two of a high school.
- 27 On 1200.
- 28 A mining school.
- 47 A tobacco station.
- 48 Methodist university.
- 49 A music company.
- 51 First two of five.
- 52 1st, 3rd and 4th of Illinois station.
- 53 First three of London station.
- 54 In G-7.
- 56 First two of radio news.
- 58 On 1810.

## Let's Try All Waves

*(Continued from page 5)*

another article in this issue, "A Dub Tries the Short Waves."

While modern all-wave receivers are capable of remarkable results and, with patient manipulation, will reward the listener with international reception, it should be remembered that no one can tune to stations on short waves as easily as on the higher broadcast waves. The considerably greater frequency of the short-wave signal makes it more difficult to tune the circuit to perfect resonance. Tuning must be done very slowly, for a station can be passed over without knowing it. A signal may seem too weak to hear, but with careful adjustment and tuning it can be brought out quite loud.

But fading often is very bad on the short waves, and stations may be missed during the period of faded or minimum signal strength. Stations also are limited to certain portions of the short-wave dial, and these spots must be located after careful search. Not many distant stations above 35 meters are heard during the day, and very few below 25 meters after dark. Below 15 meters the waves are very short and respond only to experimental and specially designed receivers and aerials.

The time of foreign broadcasts must be watched carefully since few of them are heard after 8 or 9 p.m. EST. Anyone expecting to tune immediately to London, New Zealand, Paris, Rome, or South America, will surely be disappointed. There is little that is consistent about the very short waves from afar, and it may be weeks before stations can be located, but once found and logged, they can be picked up easily during their hours of broadcasting at any time in the future. Ship to shore, police and amateur broadcasts should be heard easily on the higher portions of the short-wave dial, and, of course the standard broadcast waves will be heard as always.

Various kinds of aerials may be used for the all-wave sets, some ranging from 20 to 100 feet in length. It is best to experiment because of the location and type of receiver in use.

## "Believe It or Not"

*(Continued from page 16)*

week-ends to a place 14 miles along the coast from Dunedin. The receiver used is a Majestic Model 21, 8-tube superhet and I have yet to hear a receiver that will drag in the DX like this one.

"My verified stations to date are 207 from all parts of the world, but mostly from your country. Some of the best 'scalps' are the following 100-watters: WLBF, Kansas City, Kans.; KCRC, Enid, Okla.; KFBK, Sacramento, Calif.; KFJM, Grand Forks, N. D.; KFJY, Fort Dodge, Iowa; KFQU, Holy City, Calif.; KFXD, Nampa, Idaho; KGBX, St. Joseph, Mo.; KGCX, Wolf Point, Mont.; KGFF, Shawnee, Okla.; KGFJ, Los Angeles, Calif.; KICK, Red Oak, Iowa; KJBS, San Francisco, Calif.; KMJ, Fresno, Calif.; KPCB, Seattle, Wash.; KRE, Berkeley, Calif.; KREG, Santa Ana, Calif.; KWCR, Cedar Rapids, Iowa; KWG, Stockton, Calif.; KXO, El Centro, Calif.; KXRO, Aberdeen, Wash.; KFOR, Lincoln, Nebr.; KFXR, Oklahoma City; KGEEK, Yuma, Colo.; CKMO, Vancouver, B. C.; CKOV, Kelowna, B. C.; and the 50-watt KGFX, Moorhead, Minn."

There, you skeptics, mull that over. That would be a good log for a DXer in Kansas. There they are, hundred-watters, practically all on crowded frequencies. If a DXer in New Zealand can pile up a list like that with a Model 21 Majestic, what could he do with a Model 60? Altogether Mr. Barnett has verified 138 stations in the U.S., seven in Canada, and two in Mexico. Other countries heard are Russia, France, Spain, Germany, Siam, South Africa, British India, Holland and Japan with 11 stations in the last named country.

# OLD FRIENDS and NEW IDEAS

## With the Inventors and Manufacturers

**A** SYSTEM whereby as many as 3,000 radio receiving sets can operate independently on the same antenna without interfering with each other has been perfected, according to an announcement by the Western Electric Company. By adding further apparatus, the number of sets can be increased indefinitely without impairing the quality of reception. The sets can be of any make the individual chooses. A city's roofs freed of the fire hazard and the unsightly tangle of innumerable individual antennas thus becomes a scientific possibility.

The system is designed primarily for hotels, apartments and other multiple dwellings and is aimed to overcome the increasing problems which dwellers in such buildings face in obtaining good antenna facilities for their radios at reasonable cost. Modified forms of the system have also been designed to operate a much smaller number of radio sets. The same technical improvements devoted to the large community receiving system are embodied in these smaller forms and are made available on a scale that is suitable even for the individual home owners and his one radio set.

The system was designed by engineers of Bell Telephone Laboratories and employs the principles used in long distance telephone circuits.

### "B" Power for Auto Radio

Making the automobile radio all-electric and thus getting rid of the B battery nuisance, has long been an ambition of



radio engineers. Now comes the P. R. Mallory & Co., Inc., of Indianapolis, with their "Elkonode" which they claim will provide the same high quality and dependable reception from automobile radios that is secured from all-electric sets in the home. The device is compact — 10 in. x 7 in. x 3¼ in.— and may be placed in any one of a dozen places in and about the car. It uses no water, has no rotary parts and does not set up interference. It is energized by the "A" battery of the car which, in turn, is, of course, constantly renewed by current from the automobile generator. No additional switch is required to operate the eliminator.

### The Balkeit



The new Balkeit Junior manufactured by Balkeit Radio Co., North Chicago, Ill., employs a full-sized dynamic speaker, with a hum bucking coil, three-gang ballbearing variable condenser, and dry electrolytic condenser, with full-vision illuminated dial. It uses the new series tubes — one '57 triple-grid amplifier-detector, one '58 triple-grid super control amplifier, one '47 output pentode and one '80 rectifier. It is 10 in. wide, 15½ in. high and 8 in. deep.

### Radio Watches the Baby

An ingenious father has installed a miniature broadcasting system near his

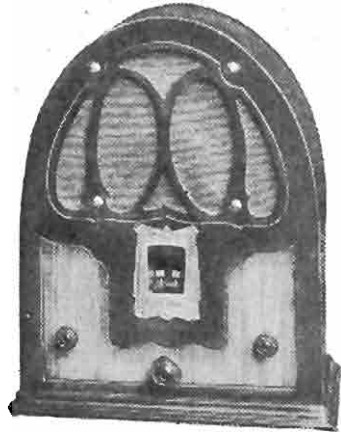
baby's cradle so that the slightest sound in the nursery is transmitted through the radio set to the parents in the living room. All the apparatus required is a Universal Baby Mike and a Junior Input Stage both of which are manufactured by the Universal Microphone Co., Ltd., Inglewood, Calif. They are said to be extremely simple and inexpensive. The microphone is so sensitive that if the radio set is placed in the mother's bedroom she can hear the steady, even breathing of her child.

### Using Ground Waves

From the factory of the Western Coil & Electrical Co., at Racine, Wisconsin, comes the "Radiodyne Grou-tenna" which is claimed to bring in distant stations strongly and clearly with great selectivity and minimum interference. It takes the signals from the ground and hence is non-directional. It can be used of course, with any type of set. It attaches direct to the set and hence the antenna system follows the set when it is moved from one place to another. There is an inner metallic cylinder which



picks up the signals from the ground and transfers them to an inductance coil. The cylinder and coil together act as a condenser building up the signal strength. A high resistance in series with the ground lead, blocks radio-frequency impulses, forcing them through cylinder and coil. This resistor also serves, it is said, to pass eddy currents from set to ground thus minimizing hum. The same company manufactures the "Radi-aerial" which is claimed to have the capacity of the average outside aerial 75 feet in length. It too takes the signals from the ground.



### The Simplex

A new long and short wave set is introduced by The Simplex Radio Co., Sandusky, Ohio. It is their Model P and is made for either direct or alternating current. It is a superheterodyne with five tubes and is said to have ten-kilocycle selectivity with extraordinary range. It is but nine inches wide and 12 inches high and weighs but 13 pounds. It tunes from 550 to 4000 kilocycles and is equipped with tone control, static suppressor, built-in antenna and provision for phonograph connection. The dial is illuminated and is calibrated in kilocycles.

### All Waves and Television

An All-Wave Radio with television is being produced by W. C. Rawls & Co., Bankers Trust Building, Norfolk, Va. Of this set the manufacturers say: "The Rawls Short Wave Unit in connection with the broadcast receiver, has been especially designed for long distance short wave reception from 15 to 200 meters, the superheterodyne circuit incorporating nine tubes. To switch from one s.w. band to another, a click of the panel switch and the change is made automatically. In the broadcast receiver six tubes are used—two '35s multi mu, one '24A detector, one '27 and one '47 pentode output with '80 rectifier. The eight-inch dynamic speaker handles the tremendous output of the pentode tube without distortion. In the television receiver eight tubes are used.

*(Continued on page 29)*

# AFTER the EDITOR'S VACATION

**H**OW do you do, ladies and gentlemen, how DO you do?" Norman Brokenshire's famous greeting seems appropriate after this absence of three months. We hope you have had a pleasant summer and that you are looking forward to an interesting radio fall and winter. In this interim RADEX has not been idle and celebrates its entry into its ninth year with a number of new features which your Editor feels, will add greatly to your convenience and satisfaction.

Questionnaires covering a number of subjects were sent to all broadcasting stations in North America and the response was quite gratifying. The official data of the Radio Commission regarding frequency, power, owners, etc., was verified and corrected and much more detailed information regarding the policy of verification was secured.

In order to present fully the information gathered, we are adopting new symbols for the Index by Frequencies. These permit us to convey a vast amount of data in very little space. The actual policy of stations regarding stamps ought to save our DXers considerable money in dimes. The new information on miscellaneous chains should aid in identification of stations received. With the increase in postage to three cents in the

## Back to Business as Usual

United States as well as in Canada, Cuba and Mexico, makes it more than ever essential that listeners send return postage or coins for their verifications. Stations which failed to reply to the questionnaire or to certain questions are marked with the small "z." Replies are still being received and the Index will be corrected from time to time.

In response to hundreds of requests from our readers, we are at last giving the time on the air for all stations. It being impossible to give the space necessary to include the time for the entire week, we have adopted the plan of giving the time for Sunday in the September issue, Monday in October, Tuesday in November, etc. Readers should therefore be sure to save the next seven editions of this magazine and thus have the time on the air for all stations for every day of the week.

On the inside front cover of this issue will be found the September calendar of special DX programs. This covers those stations which will have, during September, special programs for DXers particularly those outside their regular broadcasting hours. We know this feature will be especially welcome to our DXers.

*Don't be alarmed. This is only "Bill and Jane." Their adventures are recounted each weekday morning except Saturday at 7:45 EDST over WJZ.*



Many stations indicated on their questionnaire that they would give such programs irregularly during the winter. A second inquiry is being sent to such stations asking for specific information in advance of their programs and the information received will be incorporated in future calendars.

The inclusion of short wave information and articles necessitates the increase in pages in this issue to eighty as compared with 68 a year ago and 64 in 1930. We feel sure our readers will be gratified by this increase in the service rendered by their favorite radio magazine. We do hope that they may in turn reciprocate by telling their friends about the pleasure they derive from it and thus enable us to extend our sphere. What a wonderful thing it would be if each reader were to secure one new reader and thus double our circulation at one fell swoop.

#### A New Map of the World

To assist in this doubling we have designed and published a new device which we feel sure each reader will want to add to his radio equipment. This is the RADEX Radio Map of the World and Time Converter. They will agree, we are sure, that this is one of the most convenient, informing and clever devices they have ever seen. A small cut of the Converter appears on the inside back cover. The dial is merely turned until

the particular hour is opposite a particular zone and the Converter then shows the current time in every zone of the world. Thus, if you live in the Mountain Standard Time zone and you desire to convert 8:00 p.m. into New Zealand time, you turn 8:00 p.m. opposite MST. and at once you see that it is 3:30 tomorrow afternoon in N.Z. The hours of twilight, darkness and dawn are graphically shown in their relation to these hours. Or, if you desire to tune in a program in Honolulu at 9:00 p.m., their time, and you want the EST. time for tuning, you turn 9:00 p.m. opposite the Hawaii zone and at once you see that it is 2:30 tomorrow morning in EST.

On the double page inside spread of the converter is a large map of the world with all the principal cities shown and with the time zones correctly drawn. This map is six times the size of this page of RADEX. At the top of each zone is a number corresponding to the numbers shown in the outer circumference of the Converter. On the back cover is a list of all the countries of the world with the call letters assigned to each and the zone number which either locates the country on the map or the time zone on the Converter. All in all, this map and converter make a big contribution of radio information. And the price is but 25 cents or free with a year's subscription.

So much for business; now let's see

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what our readers are thinking and doing.

Some months ago we published a letter from a reader in the Bronx, N. Y., regarding a new aerial he had erected. We are advised that when other readers wrote him for information regarding this aerial, he notified them that he had had the material printed and would have to charge one dollar for it. This magazine is published for and in the interests of the radio listeners and we strongly object to any reader trying to make money out of other readers. If they have information of so much value that they have to make a charge for it, we urge them to keep it to themselves in future. From now on we shall have to insist upon diagrams and full data on any home-made set or aerial so that if our readers are interested in it, it can be published for the benefit of all.

This same fellow in the Bronx is trying another "racket" upon our readers and probably upon those of other magazines as well. He sends them a card stating that their name recently appeared in a prominent magazine and that he will send them a clipping for a quarter. If they bite, he sends them a clipping from RADEX which, of course, they have already seen. We are powerless to prevent such petty graft except to warn our readers against responding to this fellow's bait.

#### Defends CMCY

"Permit me to say a few words in behalf of Mr. M. D. Autran, Calle G No. 215, Vedado, Havana, Cuba, over whom our comrade, Mr. P. E. Donnelly, 901 Third Ave., Los Angeles, Calif., has let out a cry of warning (April RADEX, page 20)," writes Rudolph Kure, 3633 Vine St., Cincinnati, Ohio. "I have exchanged several letters with Mr. Autran, owner of Station CMCY, and received the pleasant impression of dealing with a fine fellow. He has mailed me not one, but two, verifications. He has also given me, at my request, complete specifications of his mighty efficient plant. How many broadcasters would bother about doing that for an humble DX fan? I am convinced the fault lies not with him but perhaps with us DXers. I can recall M. D. Autran telling me that on several



*"Whispering Jack Smith" has returned to the air over NBC-WJZ, Monday, Wednesday and Thursday, 10:15 p.m., EDT.*

occasions mail destined for him has been forwarded to wrong stations instead (there are so many broadcasters in Havana), on account of either illegible or else insufficiently or otherwise faultily addressed fan mail. He has urged me likewise to be sure and write his full and correct address and write it in plain, clear print."

#### No Increases Shown

"I would like to know whether the following stations have changed their power or not," requests F. S. Keeble, 323 Ozark St., Hot Springs, Ark. "KVOO, WSB, WRUF, KOA, WHAS and WSM. Since XER has been on the air, I have had interference from it in getting WSB, but lately I get WSB clearly and loudly without this interference even before the sun goes down. I also get KVOO louder and clearer than ever. WRUF and KOA both operate on 830 keys, but along toward evening I get WRUF clearly and loudly till 7:30 p.m., CST., when it goes off the air. I can't get KOA till the former station vacates the channel. In this connection, I would like to state that something should be done about KWKH broadcasting off its wave length. It jumps from 830 to 870 keys. and very seldom completes a

program on its assigned frequency of 850 keys. I know this condition is not caused by any fault in my set, for I have a very good Atwater Kent, Model 55, and have just recently had the set tested and a new set of Cunningham tubes installed."

#### New Australian List

"I am enclosing herewith a copy of an authentic list of the Australian broadcasting stations that I had the pleasure of receiving from Mr. Robinson, Manager for the Queensland group," writes Fred W. Janssen, 118 S. Santa Cruz St., Ventura, Calif. "It gives the address of the stations also, and I thought that perhaps you would care to print it in your coming issue of RADEX for the benefit of your readers interested in trans-Pacific reception. As you no doubt know, the trans-Pacific stations will start coming through again in the month of September, and it might be well for the fans to have some authentic dope on them."

If we aren't able to find space in this issue for Mr. Janssen's list, it will appear in an early edition of this magazine.

#### Shake-Up Coming in Canada

As the daily press has noted at considerable length, a great shake-up is coming in the Dominion of Canada. The Government is taking over all broadcasting along the lines of the British Broadcasting System. A number of the Canadian stations will doubtless disappear and Ian Murdoch, 17 Main Street, Grimsby, Ontario, has this suggestion to make: "Those readers who hear some of the Canadian stations so regularly that they consider them like locals and do not have them verified, ought to verify them all at once for they may be deleted in the coming reallocation and DXers will then lose them entirely. It is rumored that Canadian stations will go on 690, 1050 and 1100 kcs. When they do readers may find it difficult, because of their interference, to hear stations they now get regularly on those waves such as KFBI and KNX on 1050. DXers ought therefore to see that such stations as these are verified now while they can get them clearly." Mr. Murdoch's log now stands at 855 and he would like to know if he is anywhere near the point where he might

claim the DX championship of Canada. How about it, Canadian DXers?

The United States Civil Service Commission asks us to warn our readers against paying money for "coaching courses" in preparation for the Federal civil service examinations. They say: "Schools which sell such courses under present conditions accept money under false pretenses. Comparatively few appointments are being made in the Federal civil service. Vacancies which must be filled are filled by the transfer of those already in the service or the reinstatement of those who have been in the service. Money paid for civil service coaching courses at this time might almost as well be thrown to the four winds."

#### Another Outlaw?

From Earl R. Roberts, 105 Gomber Ave., Cambridge, Ohio, comes the report of a new station of which the FRC gives no record. Can it be another outlaw? "It's WAIR, located in New Philadelphia, Ohio, just 40 miles northeast of Cambridge. Heard it first last Saturday (July 9th), from 3:50 p.m. to 5:30 on 885 kcs.; Sunday noon on 1040, and Monday on 860. It comes in fairly loud, so must use around 50 watts. Plays records usually and announces only every half-hour." In a later letter, Earl says he has received a verification from WAIR "The Voice of the Air" signed by Ray Wilson and operated by the Eastern Ohio Air Service Co. on 850 kcs., daylight only. Their schedule is 9:30 a.m.-1:30 p.m.; 3-30-5:30 p.m., EST. Their transmitter is latest type Master-Oscillator Amplifier circuit employing a type 520 tube in output stage and radiates about one ampere. Earl counts this as his 802nd station. No. 801 was his farthest off — 3LO, Melbourne, approximately 9,937 miles. The last season boosted Earl's log from 570 to 802 — a mighty good record.

#### Some Little Kinks

A very simple little change will often improve the reception from a set — this is to pull out the plug from the electric line and put it back the other way. There are two wires leading to an electric light outlet. One of these goes direct to the generator at the central power-plant. The other usually goes to the ground.

The plug which you insert into the light-socket or outlet has two prongs. With many sets it makes an important difference how these prongs are inserted. If your set hums or fades badly or if snapping a light on affects the volume, try pulling these prongs out and inserting them into the opposite holes of the socket.

Joseph Stokes, 7318 Woodlawn Ave., Swissvale, Pa., writes of a little stunt he tried which added a number of stations to his log. "I use a Silver No. 30 and can greatly increase the sensitivity by removing the shield. This causes the set to oscillate and by careful manipulation of the volume control, many more stations can be logged. Try this, you

of broadcast stations in the United States," comments Frank E. Switalski, 2819 Victoria Ave., Cincinnati, Ohio. "XEF (formerly XER) of Villa Acuna, Mexico, operates with 75,000, and the most powerful broadcaster in the world is at Warsaw, Poland, with 158,000 watts on the long waves. The Federal Radio Commission has just authorized WLW, Cincinnati, to test a transmitter in about a year with 500,000 watts."

A new station, XENT, is rumored for Neuvo Laredo, Mexico, to use 150 k.w. power. It is said it will be built by Norman T. Baker, formerly of KTNT at Muscatine, Iowa, who had a run-in with the FRC and lost out.

*Jane, Helen and Patti Pickens, NBC's harmony trio, 7 p.m. Sunday, 9 p.m. Saturday, EDST., NBC-WJZ.*



seekers of Japan. "Using this method I log from 30 to 50 stations every noon from Boston to Gainesville." Mr. Stokes writes that a member of their club, the World Radio Reception Club, visited Richard Caddell to check up on his article in the May RADEX and witness that Radioloa 60 in operation. Mr. Stokes says the visitor came away disgusted — with his own G.E. Super. Joseph reports rumors of a new station in Florence, Italy, using 20 k.w. on 599 kcs. and another new one in France using 7 k.w. on 671 kcs. He says EAJ7 in Barcelona, Spain, is working on 1190 kcs. and will soon use wither six or ten kilowatts.

"50,000 watts is the maximum power

The biggest station in the world, so far as power is concerned, is announced for Junglinster, Luxemburg. It will use 200 k.w. on 1250 kcs.

From J. E. Beardshaw, Bacacay 2547, Dept. 2, Buenos Aires, Argentina, comes the following: "We are very advanced on radio here, and three broadcasts, LR5, LR4 and LR3, have bought new transmitters of great power, which are just now mounting. I noticed three mistakes RADEX with respect to the waves of LS3, LR6 and LS9, which are as follows: 630 keys. in place of 1270, more or less; 865 in place of 990, and 1270 in place of 1386, respectively."

"Am writing to express my apprecia-

*(Continued on page 27)*

# A DUB TRIES the SHORT WAVES

THE first reaction of the beginner on the short waves is one of disappointment. Used as he is to turning the dial carelessly and picking up the broadcast band stations without effort, he finds it difficult to reconcile himself to the delicate tuning necessary to bring in the short wave signals. For most of the short-wave stations must be tuned to the sharpness of a razor edge.

The broadcast band signals usually come in well above the noise level, but with the short waves, the noises seem to be always with us so much so that others in the room are apt to find they have business elsewhere. When signals are heard, however, they can by patient manipulation be brought out well above the noise level. Another unpleasant by-product of the short waves is the code which in recent years has pretty well disappeared from the broadcast band. In the short waves, as the dials are turned, one is constantly passing through these code bands with more or less annoyance. Television signals too are picked up frequently with their high-pitched staccato.

We have given you the worst side of the picture at the beginning for that is the way the neophyte will find it when first experimenting with the short waves. One has to learn to "play" the short waves with the same patience and persistence he would require to play a musical instrument. The writer has had his set too short a time to acquire the necessary skill and knowledge the short waves require. A later article will set forth the actual results he is able to get in the high frequency bands.

## The Editor's New Set

The set that was purchased was the Silver-Marshall 728-SW — a brand new design just out of the laboratories and workshop of Silver-Marshall, Inc., 6401-6451 West 65th Street, Chicago. This set was chosen on a sort of an "eeny-meeny" basis without any tests of this or competing receivers. A detailed description of this set — the newest product of a well-known maker — should be of interest.

## A B. C. L. Turns to the High Frequencies

The illuminated drum-dial is divided into four bands of four colors. One of these, numbered in kilocycles, covers the broadcast band from 550 to 1500. The other three bands are numbered in megacycles (thousands of kilocycles) which we believe to be the ideal method of indicating the short-wave frequencies and one that will ultimately be adopted by all manufacturers in preference to either kilocycles or meters. The yellow scale covers the frequencies from 1550 to 4800 kcs.; the green from 3600 to 10,000 kcs.; and the orange from 9600 to 25,350 kcs. Any one of the four bands may be brought into use instantly by turning a knob to one of the four colors marked thereon.

## How It Operates

The S-M 728-SW has six control knobs. One turns the dial by friction vernier action. At the extreme left is the knob which combines the on-off switch and the volume control. These two knobs are used on either the b.c. or the s.w. bands. For the b.c. band only one of the other knobs is used that of the tone-control. This control is quite effective, a very marked difference in the pitch of the tones appearing as it is turned. This control seems to eliminate a great deal of static by turning it to the bass notes.

In short-wave operation, the scale-knob is turned to the band desired. The center knob is a noise suppressor with an action somewhat similar to that of a local-distance switch on some b.c. receivers. The next knob to the right is a non-critical auxiliary short-wave trimmer and is used to bring out the signals clearly after the dial is set. The b.c. dial is very well calibrated there being only a very slight discrepancy between stations at the upper and lower parts of the b.c. band and their marked frequencies. The set is quite critical in the b.c. band and selective within ten kilocycles even with the powerful local stations. WTAM

can be tuned out on 1070 and WBT on 1080 and WTIC on 1060 tuned in without interference.

#### Can be Tuned Visually

Due to the sharp selectivity of the set, the dial must be set with great accuracy in order to get a full and perfect tone. This result is materially aided by a visual tuning meter just above the dial. The hand of this meter swings violently to the right as a signal is passed in turning the dial. In tuning a station in, the set will be perfectly synchronized to the signal when this hand is as far to the right as it will go. Stations may, in fact, be tuned in silently by this meter alone. With the volume control turned down and the dial revolved, this meter hand will swing when a signal is passed. If the dial is set for any one of these signals with the hand to the extreme right and then the volume control is turned up, the station will come in perfectly synchronized — tuned in by sight alone.

In short wave operation, the band is chosen by the selector, the volume control is set and the noise-suppressor placed at a point that will give the greatest volume with minimum noise. The dial is turned very slowly and when a signal is heard, the trimmer knob is turned right and left until the signals are brought out with the greatest clearness.

This particular set is mounted in a very beautiful console with doors. It has two speakers in order to cover the entire tone scale and to pass the great volume the twelve tubes provide — said to be over eight watts of undistorted power. In the b.c. band, the set uses ten tubes — a '58 detector and '56 oscillator, an i.f. amplifier using two '58 tubes, a '56 A. V. C. tube, '56 second detector, a '45 first audio or driver stage and a push-pull '45 output stage with, of course, an '82 mercury vapor rectifier tube. For the short waves, an additional '58 first detector and '56 oscillator are brought into play.

The first few days' operation brought in only a few identified short-wave stations — two or three of the relay stations, police stations in several cities, a number of airport stations and numerous amateurs. In a later article we will describe the results that are secured after this

listener has acquired some experience in the operation of the short-wave portion of the set.

## With the Editor

*(Continued from page 25)*

tion of the many friendships and acquaintances that I have made through the medium of your magazine RADEX," says John M. Lennon, 122 Linden St., Camden, N. J. "I have made many friends by letter and even some by personal contact. When my inquiries were printed in RADEX I received many replies from all over this country and Canada. These enabled me to increase my total of stations and this is primarily the aim of all DXers."

"Every radio magazine we pick up these days is chain, chain, chain," complains John H. Malone, Sparland, Ill. "The program listing is bad enough. Why do you insist on so much chain stuff? If you must go 'stationish' tell us of the artists on the smaller stations. You'd at least be different."

#### Those VE Short-Wavers

From Harvey Kees, Beulah, N. Dak.: "Last night, in the feature 'Short Wave Chat' from CJRW, the speaker stated that VE9JR operates on 25.50 meters with an output of 2000 watts and VE9CL operates on 48.85 meters with an output of about 3500 watts. These two stations operate alternately, relaying the program of CJRW. He also said that VE9JR (formerly CJRX) was Canada's first s.w. broadcasting station. The operators of these stations do not seem to have much faith in long distance on the broadcast band but they have quite a few short wave DX broadcasts."

"XEF, Villa Acuna, Mexico, has NOT taken the place of XER," postcards Rudolph Kure, 3633 Vine St., Cincinnati, Ohio. "XER is still broadcasting. A few nights ago at exactly 10 p.m., EST., XEF signed off saying: 'Please stand by for our sister station XER,' and then XER took the air."

"I have a Zenith super 8 set. It has two '45 power tubes. Will it help to get greater distance if I replace the '45s with '47s?" asks Harry R. Kenny, 607 Mt. Vernon St., Camden, N. J. We

doubt if the 47's would increase the range; the only noticeable difference would be in the tone. What do our readers think? Harry has received 315 stations in ten months. He uses an aerial of 65 feet, including lead-in. He would like to hear from other DXers.

Here's a tip from Ray E. Everly, 102 W. Washington St., Newton, Ill., which we haven't been able to verify officially: "KFDM, Beaumont, Texas; 560 kcs., is moving to Port Arthur, Texas. It will have studios in Port Arthur Radio College and has been leased by Port Arthur Broadcasting Co. The college has a s.w. station W5YH."

"Speaking of my favorite magazine, here's a suggestion for the cover," suggests Murray D. Bryce, R.M.D. 1, Royal Oak, V. I., B. C., Canada. "No, I'm not particularly wanting a picture of a radio station, but a very ornamental cover would be a good picture of Ethel Shutta (Mrs. George Olsen) who sings so well with her husband's fine orchestra. If you saw Eddie Cantor's picture 'Whoopee' you will surely remember Miss Shutta."

The war of the newspapers against radio is further intensified by the New Orleans newspapers which, it is reported, have discontinued their radio programs and are ignoring the existence of radio. Will the newspapers of other cities follow this example?

# MOONSHINE and

By ROBERT S. STEPHAN  
*Radio Editor, The Cleveland Plain Dealer*

**I**N a somewhat barren, air-cooled studio in the heart of Manhattan today, I sat with a crowd of the curious and tried to recall the beauties of southern mountains as I watched Lulu Vollmer's cast portray over the air the 100th episode of the popular serial, "Moonshine and Honeysuckle."

It is a far cry from the modern-dressed Broadway actor and actress to the boy in galluses and the girl in homespun. But even with this modern Fifth Avenue setting the spirit of "Moonshine and Honeysuckle" intrigues you.

Louis Mason, a rather tall and very friendly Kentuckian does the leading role of Clem Betts. A similar role in Lulu Vollmer's "Dunce Boy" gave Mason his big chance with the late David Belasco.

He has been a part of the theater since boyhood.

## Strauss a Veteran

Robert Strauss plays the role of Pink Freeze. He is rather short and slightly bald. Another veteran of the speaking stage, he has played Cleveland many times, doing comic characterizations with Fritz Leiber's Shakespeare company. Strauss also has done the role of Inch Spencer with the Stebbins Boys.

Anne Elstner plays the role of Cracker



*The cast of "Moonshine and Honeysuckle." Our readers will have to decide for themselves which is which. We don't know.*

# HONEYSUCKLE

Gaddis and tells me she also does the roles of Myra, Ma Carter and Ma Betts. Sara Haden plays the part of the Whining Piney Hyatt and Therese Marie Wittler, a very personable young actress does the role of Gypsy Carter. These three young women are former Theater Guild stars.

A big, six-foot strapping fellow, Bradley Barker, makes those sounds of the birds, the cackle of the chickens, and Barks of "Bones," and finishes a busy half hour by playing the role of a doctor.

The program's theme song is played by four musicians, two violinists, a cellist and pianist. Add to these a sound effect man who bangs doors, a director who flits in and out of the studios like Hamlet's ghost, and the usual announcer and you have "Moonshine and Honeysuckle."

The cast is friendly, chatting informally with guests before and after the broadcast. Louis Mason was doing an impromptu dance today as the ensemble played the interlude after the first half of the sketch. The entire cast reads the lines of the sketch from script and the male members are bespectacled when working before the mikes.

## Cooper Dies

Mason tells me that Claude Cooper, who played the role of Peg Leg Gaddis, died a few days ago. Perhaps you recall that gruff, old diction of his over the air. It was due, Mason says to the creeping paralysis which had affected his lower jaw and later caused his death. Although several actors have tried out for the Gaddis role, Miss Vollmer is undecided whether to continue it since Cooper did such an excellent portrayal of this character.

Mason tells me that the Moonshine and Honeysuckle cast will be going on the road soon. Stage appearances will be made in costume with scenic background. At present, Miss Vollmer is wondering if "Cracker" and "Clem" should be married in the story. What do you think?

"Moonshine and Honeysuckle" has enjoyed unusual popularity on the air. It is one of the first radio series ever at-

tempted by a recognized Broadway playwright. Miss Vollmer is the author of "Sunup" and other Broadway shows. The series began when Louis Mason said to her one day: "You know, Miss Lulu, write something which is really the mountains — something with moonlight and the smell of honeysuckle in it." Miss Vollmer lived with the mountain people of the south and at the age of ten cried herself to sleep because she wasn't a mountaineer's child. They could fight, swear and chew, but she had to be "a little lady." It took Miss Vollmer one hour to write the first sketch of this series. Now she spends nearly a week on each episode.

## Old Friends and New Ideas

*(Continued from page 20)*

The duralumin lens disc is 16 inches in diameter and is driven by a heavy-duty synchronous motor with switch and framing device operated from the front panel. The picture is projected on a screen in the panel and is large enough for a group to sit by and enjoy."



*The Rawls All-Wave and Television Receiver*

# On ALL the Waves with Our DXERS

**I**T seems to be customary for the RADEX family to write to the editor, so here's my contribution," says Richard Abrahams, 1310 Hutton St., Troy, N. Y. "I'm probably a rather recent arrival into the circle, but no less enthusiastic than the Radexers who grew up with the magazine. I was introduced to it last September while looking for a radio magazine written primarily for the public which just 'listens.' I am a student at the Rensselaer Polytechnic Institute at Troy and, while there during the winter, I like to do a little DXing on a Sunday morning using a Dubilier 600 which I bought last fall. In this time I managed to hear 162 stations, which I don't consider to be a poor record, considering the quality of the receiver. My best catches were WQDX, KICK, WBBZ, CMBD and KOY. I would like to correspond with anyone using a Dubilier 600 receiver."

## A Good Report from Wisconsin

"I have been DXing about a month or so less than two years and to date my log contains 719 stations," reports Paul L. King, 1523 Madison St., Madison, Wis. "All my verifications are in and the season brought me four new ones from across the seas. They include 2CO of Corowa, Australia, from which I received two verifications on different programs about two weeks apart, one program of an hour and a half duration; 4BH, Brisbane, Australia, 600 watts; 3GL, Geelong, Australia, 50 watts; and the last one from Munich, Germany. The German has no call letters, but operates on 560 kcys. with 1700 watts. I heard numerous other foreigners, mostly from Australia or New Zealand, but the weather or some of the various other troubles which best DXing prevented my getting enough for verification. One morning I managed to pick up what I thought was the famous 2LO, but I could understand only a word here and there. One of the catches which I record, 3GL, is so unusual that my claim may be disputed by some. However, I have their verification, along with the others

## Reports, Complaints and Et Cetera

named, before me as I write and I shall welcome examination of it at any time. The Munich letter was written entirely in German and as I am not well acquainted with that language, I had to have it translated for me before I was sure what it contained."

## Heard a New Brazilian

"I have just written to the Radio Club of Brazil at Rio de Janeiro, advising them, in accordance with their request to listeners-in, that I picked up their program very clearly," comments W. F. Rendell, MacDonald Club, St. Johns, Nfld. "Experimental station PRBA has just concluded a program of Brazilian music broadcast on 31.58 meters. I heard them for an hour at 9:15 p.m. Nfld. Daylight Saving Time (7:45 p.m., EDST.) My set is an 8-tube G.E. Super heterodyne (long wave) with a 3-tube converter attached for short wave. My aerial is 12 feet of bell wire strung across the room, and my ground is a radiator."

Joe Maertz, 3118 West Scott St., Milwaukee, Wis., reports the reception of 5CK of Adelaide. We quote from his verification: "We have your report of May 10th and in reply are glad to say that the station you heard was 5CK, the central regional station of the National Broadcasting Service, which relays the 5CL Adelaide programmes. The call-sign for both stations is '5CL Adelaide and 5CK.' 5CK is located at Crystal Brook, 100 miles north, by air-line, from Adelaide. The input power is 15 k.w. and aerial power  $7\frac{1}{2}$  k.w., wavelength 472 metres, frequency 625 kc. It has now been in operation about four months."

Samuel F. Owens, 233 Roberts Ave., Glenside, Pa., also reports reception of 5CK.

## Waiting for the New Season

"Well, it seems good to write you again, for the starting of DX with RADEX is soon at hand," greets Arthur Collins, 68 Amber St., Buffalo, N. Y.



"I am waiting anxiously for the opening issue in September, as there are many changes in stations and kilocycles. I open the season with a fairly good list of verifications from last winter's efforts. Here are some of my best (and all verified): 2YA, Wellington, N. Z.; 4QG, Brisbane, Australia; 1BC, Caracas, Venezuela (960 kcys., 5KW power; their hours are 7-8 a.m.; 10:30 a.m.-2 p.m.; 5-11 p.m., EST.); 10AB, Moose Jaw, Sask. (25 watts power), and 30 Californian stations. My log is 428 stations to date. I would like to have correspondence with DXers and may be able to help them on some tips. I have an RCA model R50, 10-tube pentode and at present am using a 300-foot aerial and six grounds (one of them the Ross copper)."

#### Some Good Records

"I've been DXing since 1926 and have 546 stations logged, but up until now I've only verified the low-powered and distant ones," writes Leo Shelly, 125 Lake St., St. Catherines, Ont. "Starting now, I'm trying to verify every single one. We own a Sparton Equasone with seven tubes, and our old set was a Guilfillan neutrodyne battery set. In your May issue you asked if the call letters CKOW were ever used. I heard them one night two years ago and CKOW was used. Nestle's Milk Company were the owners, probably accounting for the KOW in the call."

"I started DXing last October and from October 31st to April, 1932, I have logged 340 stations and have verifications from 274 so far," reports H. Burstrom, 899 Alhambra Road, Cleveland, Ohio. "Included in my list are 17 Canadians, 4 Mexican, 6 Cubans, both in Honolulu, and also have logged 21 100-watt, 10 50-watt, two 25-watt, two 15-watt and one 10-watt. I have a 1930 Phileo 8-tube neutrodyne and the only aerial I have had is an Elimino on top of my cabinet. But for ground I have two pipes 8-feet deep and rock salt buried around them. Both pipes have one wire soldered to ground wire."

"Have just finished reading my second copy of RADEX and do not see how I have done without the little book," writes E. L. Kimmons, 309 Leland St., Austin, Texas. "Have only been DXing

about nine months, but have nothing much to brag about. My location is very unfavorable for distant reception. Only logged 306 stations, with about 180 verified. About the best catch was 10AB on their last DX program. I am thinking of getting a shortwave receiver and think the new department devoted to the short waves will be a great help to the fellows, on these frequencies."

#### Has Tried 'Em All

A regular experimental laboratory is Clyde W. Ham, 1002 S. Lafayette Street, Shelby, N. C. He says he has tried five different Majestics, Zeniths, DeForests, RCA-Victors and Kolsters, and now he has a Silver-Marshall G-6 Super with ten tubes. His log for last season included 2LO London; Stuttgart, Germany; seven JO's in Japan; four Australians; three Zealanders; HIX, VPN and RUS in North America, and a whole String of B.C. stations in Canada and the U.S. Even at that he thinks he has a poor location. Anyone with a log of almost 800 should kick on his location!

"My log is up to 722 with 465 verified," reports Lester Reinmund, 1120 So. 76th St., West Allis, Wis. "I started DXing the latter part of December, 1929, and until last winter the most distant catch I made was WKAQ, Porto Rico. Now I have verified stations from Hawaii, Japan, Australia, and New Zealand. The above countries did not come in only once but I could receive them on any decent morning. I have verifications from JOBK, 4QG, 2YA, 2BL, and 4BC, a 600-watter."

#### Heard Airplanes Describe Fire

"During the spring I received my second and third airplanes direct," reports Alden P. Bowser, 358 Pleasant St., Brockton, Mass. "They were circling over the Quincy fire and talking about it. I would like to identify them. Reception has been good this summer and my best catches are KWSC, KGMB, XEB, KROW, KOIN, and others. Does anyone know the location of Tuinucu in Cuba? I have looked on large maps and have been unable to find it. My total to date is 438 stations and going up."

"I am beginning my second DXing season with a log of 543 stations," says

Paul E. Jolicoeur, 93 Sewall St., Augusta, Maine. "This is not so bad considering the fact that I live in a remote section of the country. I have logged every state but Wyoming, and I am sure that can be accomplished now that they have changed frequencies. Here is the line-up: 47 Canadians, 17 Mexicans, 19 Cubans, Porto Rico, Haiti, and Santo Domingo. I would like to hear from owners of the Stromberg-Carlson Model 19."

"Am proud of my record of 450-plus stations logged in less than three months," boasts Roberts U. Densmore, 910 74th St., Kenosha, Wis. "As a high school student I have little time for DXing, but have verified 10AB, 25 watts, Moosejaw, Sask.; KGEK, 100 watts, 1200 kcys., Yuma, Colo, and a number of others. Have 44 states logged and patiently await the other four. Have an 8-tube Lyric, which does fine in spite of weather and location."

"Reception has been very good here the last three months on long and short waves," advises Anthony Arsenault, P.O. Box 444, Summerside, P. E. I., Can. "On a 3-tube shortwave receiver, using 201B tubes, I have heard Australia, Italy, Germany, Switzerland, France, England, South America, and Cuba. What I like best on short wave are the 20 and 75-meter amateur phones. My best DX 20-meter phone is in California. I heard it on a Sunday afternoon."

"Since beginning DX on the short waves two years ago," Clement Van Velsor, 1033 Sanford Ave., Irvington, N. J., reports, "I have logged 26 countries: U.S.A., England, Holland, Germany, Canada, Honduras, Argentina, Italy, Colombia, British Guiana, Mexico, Australia, Morocco, Vatican State, France, Spain, Ecuador, Japan, Venezuela, Cuba, Chile, Hawaii, Brazil, Bermuda, Denmark, and Switzerland."

"A letter from JQAK states that they now use the 645 key. channel, having relinquished the 760 key. channel in March," advises Robert R. Rawstron, 296 Main St., Claremont, N. H. "This season's best catches include 2ZI, JQAK, 4YA, KZRM, 4RK, 2GD, 3BO (first trans-Pacific report), 2UW, 10AB, and after two years of effort, WSMK has finally weakened and sent me a verifica-

tion. Total stations now 726, with 592 verified."

#### All-Wave Better Than Converters

"I have a Philco superhet nine-tube short and long wave set. I have tried three short wave converters but this Philco set is the only one I have had any success with," comments Eugene Chilson, 5610 Franklin St., Omaha, Nebr. He has had 38 police stations, 12 U.S. s.w. broadcasters and a grand total of 303 stations since November, 1931. Eugene would like to correspond with other 14-year-olds.

Archie Ferrie, 38 Humbercrest Blvd., Toronto, Ont., says he is a short wave DXer with a b.c. set! He has received WMP, WRDS, W3XJ, W3XK, W2XAR and W1XAU on his b.c. receiver. He wants information on VE3EW which he heard calling W3RUX or something like that. They came in on 1520 kcs.

"Here is my record since January 1, 1932, when I discovered RADEX and became interested in DXing," says Leo J. Halpin, 17 Minder St., Rochester, N. Y. "22 police stations and 372 other stations, or a total of 394 stations. All stations were received on a 6-tube Sparton. Would like to correspond with other DX fans."

#### CKTB Reaches Across Ocean

"Our local station, CKTB, received letters from England, Scotland and Ireland in answer to their only DX program," advises Leo Shelly, 125 Lake St., St. Catharines, Ont. "How's that for 500 watts? They use CKOC's transmitter, but they seemed to get a greater response than CKOC, which was on the same night. How come?"

"I thought you might like to hear from another 14-year-old DXer," writes Murray Bryce, Route 1, Royal Oak, V.I., B.C., Can. "My set is a 4-tube battery set about five years old. In five months I have had 173 stations, with 94 over 1000 miles, and 30 over 2000. Among my catches are six Japs and eight Mexicans. You might be interested to know that WTAM is by far the best received of any distant station."

"I have just recently purchased a Brunswick S-126 Model (1929) with a Philco converter," writes Arthur Foerster, 1213 Bosart Ave., Indianapolis, Ind.

"I immediately became a DX fan and purchased your magazine. It has been a great help, for I have already logged 368 stations, many of them verified (291 in fact)."

"I have been in the DX game for two years and have logged, on a two-tube set of my own build, 524 stations in the broadcast band," reports Kazimir Nowotarski, 2484 Thurman Ave., Cleveland, Ohio. "I have logged 12 in Cuba, eight in Mexico, 28 in Canada, and 45 stations on the Pacific coast."

"My log has increased since last October to April 13th by 245, all verified," reports Hedley Simmonds, 23 Clyde St., Hamilton, Ont. "Complete log 672 with 602 verified to date and 15 yet to hear from. The rest are deleted."

"I have a total of 446 stations on my Philco 7-tube set; over 400 are varified. I have 20 from California, 13 from Cuba, 10 from Mexico, and the only station in Porto Rico and the one station in Hamilton, Bermuda, which is only 7½ watts. All of these are verified," John S. Wyborski, 3011 Agate St., Philadelphia, Pa.

"I have logged 128 stations on a one-tube home-made receiver," writes Clyde Pauley, Penn Ave. and 24th St., Owens, W. Va. "On short wave I have VE9GW, VE9DR, W3XAL, W9XF, W1XAZ, W2XZ, W2XBR and W8XK."

"I have a log of 310 stations, every frequency, and 41 states," says Joseph Fee, 822 Peralta St., Pittsburgh, Pa., and adds that WQDX has changed its call letters to WTDX.

"Since writing my last letter I have received three very nice specific verifications, namely, from 4YA, 4RK and 5CL," reports Clyde W. Ham, 1002 S. Lafayette St., Shelby, N. C.

"I received KFQD, Anchorage, Alaska, the night of July 2nd, at 1:30 a.m., and held them until 2 a.m. Have written for verification," states R. M. Ballard, Visalia, Calif.

## Radio Troubles

*(Continued from page 12)*

The device is naturally more critical in adjustment on the high frequencies, or shorter waves, as you state. It is intended



*Here's the way you heard those conventions. A page-boy with new lapel mike rushed to each speaker to catch his eloquence.*

to be operated just as you have described. A station is first tuned in and the compensator is then set for maximum volume, and the volume control adjusted to suit the listener. Although apparent shifting of stations is possible to a limited degree with this compensator, it does not improve the selectivity of the set very much.

### Set Cuts On and Off

*My Knight 8 receiver tend to cut on and off at times after it has been turned on. Can you tell me why this is?*

It is likely that the set has a defective power switch with a poor contact that varies greatly in resistance. Also, the prongs of some of the tubes may not be fitting perfectly in their sockets, and when they warm up cause expansions that cause momentary breaks in the circuit. This is particularly true in the speaker-plate and grid circuits to the sockets and tubes. Look for a broken or loose connection in the leads to the caps of the screen-grid tubes, as well as in the volume control itself.

# Broadcast Band vs. Short Waves

TO tell the truth, although I have a good SW receiver, I seldom listen on the short waves because DX is not as good there as it is on the B.C. band.

The above statement may seem rather strange, but here is my definition of DX as I understand it. DX is the reception of stations near or far which are seldom received on the ordinary receiver, due to low power, distance, or poor conditions for reception. For instance, the reception of Australians on the broadcast band, especially low-powered one, is very good DX for this state, as I very seldom hear of anyone in Michigan who has heard even the high-powered Australians. However, any short-wave receiver, if it is any good at all, will tune in VK2ME and VK3ME. Therefore, I think that the latter should not be considered DX.

Due to the wavelength employed, it is as natural to tune them in as it is for a B.C. receiver in this district to hear WGN or WTMJ. Also, the reception of the S.W. Australians on six feet of antenna, as advertised by one very well-known maker of a 12-tube all-wave superhet, is not phenomenal because of the fact that short waves do not require nearly as large an aerial for optimum reception. Nevertheless, if I were financially able, I would not hesitate to buy this set, not because it will tune in VK2ME with a six-foot antenna, but because of its fraction of a microvolt sensitivity on the B.C. band, along with very low background noise.

My reason for listening to short waves at all is the same as that for which I usually listen to B.C. stations; i.e., entertainment. I never listen to a S.W. station unless it has at least fair speaker volume and such stations are not very numerous on a 3-tube set even if it does use two screen grids and a pentode. However, I have logged in addition to amateur phones all over the U.S.A. and Canada, VK2ME, VK3ME, HKA, HKD, HKF, HKC, PRADO, YVQ, LSN, CMCI, EAQ, G5SW, Pontoise on about 25.5, GBW, and Zeesen on 19.72. There is nothing unusual about this list; anyone with a good S.W. re-

## T. Colegrove Writes of His Experiences

ceiver ought to hear these and many more. However, even short waves have given me a thrill once in a while. For instance, the first Australian ham I heard on 40 meters was with 1-tube, a '99.

It may interest you to know that my B.C. log is up to 564 now and includes every state in the Union, all but one province in Canada, three of the four stations in Brisbane, and all of the stations in at least half a dozen states.

I am going to try for some long wave European DX this winter, as the National Company has just brought out coils extending my range to 2000 meters.

Here is my idea for an antenna. Erect as long an antenna as possible, also as high as possible. Of course about 500 feet is as long as is necessary for B.C. reception; 150 feet is high enough. Then, if your receiver is not selective enough, place a variable condenser in series with your antenna and regulate the length of your antenna to that amount at which you can hear the station you wish to receive without interference. Bend one of the plates so that, at maximum capacity, the condenser is shorted out of the circuit. This is very useful for early morning reception when great sensitivity but not much selectivity is required. In some receivers it is possible to tune the antenna circuit for maximum reception in this manner, especially where a ground is used. In fact, a long aerial actually decreases the volume in these sets on the lower part of the B.C. band. Some of the later type superheterodynes seem to have sufficient selectivity to give 10 kc. separation, regardless of antenna length. A counterpoise seems to give better selectivity than a ground on some receivers.

If most DX is wanted, wire a jack into the detector output so that the phones can be plugged in there. Many signals can be heard on the phones which would not actuate the grid of the first audio tube. Signal to background noise ratio is also reduced in this manner.

# 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 quickly to the one that has the feature you want.

COLUMBIA (C)-----WABC

NATIONAL, Red (R)---WEAF

NATIONAL, Blue (B)---WJZ

| Call | Dial | Call | Dial |
|------|------|------|------|
|      |      |      |      |
|      |      |      |      |

| Call | Dial | Call | Dial |
|------|------|------|------|
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|      |      |      |      |

| Call | Dial | Call | Dial |
|------|------|------|------|
|      |      |      |      |
|      |      |      |      |

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

## MONDAY

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

R — **Cheerio**  
CFCF CKGW KFYZ KPRC KSTP  
KTBS WAPI WBEN WCAE WCFL  
WKCY WCSH WDAF WDAF WWSM  
WFRB WFI WFLA WGY WIBA  
WIOD WIS WJAR WJAX WJDX  
WKY WOI WOV WPTF WRC  
WRVA WSB WSM WSMB WTAG  
WTAM WWJ WWNC

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

C — **Little Jack Little**  
CFRB CKOK KFH KFJF KMBC  
KTRH WAAB WABC WBCM WBIG  
WBRC WBT WCAH WDAE WDBJ  
WDDB WDOD WDRC WDOE WEAN  
WFBL WFEA WGR WGST WHAS  
WHEC WHP WJAS WKBN WLBW  
WMAL WMBD WOKO WORC WPG  
WQAM WSFA WSPD WTAQ WTAR  
WTOC WWVA

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

B — **Clara, Lu 'n' Em**  
KDKA KFYZ KOA KOIL KPRC  
KSL KSTP KVOO KWK WAPI  
WBAL WBZ WBZA WCKY WDAY  
WEBC WFAA WFLA WGAR WHAM  
WIBA WIOD WIS WJAX WJDX  
WJR WJZ WKY WMC WOI WPTF  
WREN WRVA WSB WSM WSMB  
WTMJ WWNC

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

C — **Columbia Revue**  
CFRB CKOK KDYL KFAB KFBK  
KFH KFJF KFRC KEJ KLRA KLZ  
KOL KRLL KSCJ KTRH KVOR  
WABC WBBM WBIG WBT WCAH  
WCAO WDBJ WDDB WDOD WDRC  
WDSU WEAN WFAW WFBL WFEA  
WGR WGST WHAS WHEC WIBW  
WIP WISN WJAS WKBN WKBN  
WLBW WMAL WNAC WNAX WNOX  
WODX WOKO WORC WOV WPG  
WQAM WREC WSFA WTAQ WTAR  
WTOC WWVA

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

B — **National Farm and Home Hour**  
KDKA KFYZ KOA KOIL KPRC  
KSTP KTBS KTBS KVOO KWCR  
KWK KYW WAPI WBAL WBZ  
WBZA WCKY WDAF WDAY WEBC  
WFAA WFLA WGAR WHAM WHO  
WIBA WIOD WIS WJAX WJDX  
WJR WJZ WKY WLW WMC WOI  
WOC WOV WPTF WRC WREN  
WRVA WSB WSM WSMB WTMJ  
WWNC

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

R — **Whiteman's Rhythmic Boys**  
WBEN WCAE WCSH WDAF WEEI  
WENR WFRB WGY WJAR WLIT  
WRC WSAI WTAG WTAM WWJ

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

R — **Andy Sannella and Orchestra**  
CFCF KEX KGA KJR KOA KPO  
KSD KSTP KTBS WBEN WDAF  
WEAF WEBC WGY WIOD WJAR  
WJDX WKY WMAQ WOW WRC  
WSM WTAG WTAM WTIC WWJ  
WWNC

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

B — **Little Orphan Annie**  
KDKA WBAL WBZ WBZA WJR  
WJZ

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

C — **Irene Beasley**  
CFRB CKOK KDYL KFAB KFH  
KFJF KLRA KMBC KSCJ KTRH  
KVOR WAAB WABC WBBM WBIG  
WBRC WBT WDAE WDBJ WDDB  
WDOD WDRC WDSU WFAN WFBL  
WFEA WGST WHAS WIBW WIP  
WISN WJAS WKBN WKBW WLBW  
WMAL WNAX WNOX WOKO WORC  
WOW WQAM WREC WSFA WTAQ  
WTAR WTOC

R — **Waldorf-Astoria Orchestra**

KSD KYW WBEN WCAE WDAF  
WEAF WEEI WFRB WGY WIOD  
WJAR WMAQ WRC WSM WTAG  
WWJ WWNC

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

C — **Reis and Dunn**  
CFRB CKOK KDB KDYL KFAB  
KFH KLRA KLZ KMBC KRLL  
KSCJ KTRH WAAB WABC WBIG  
WBRC WBT WCAH WCAO WDAE  
WDBJ WDDB WDOD WDRC WDSU  
WEAN WFAN WFBL WFEA WGR  
WGST WHAS WHEC WHP WIBW  
WIP WISN WJAS WKBN WKBN  
WLBW WNAX WNOX WOKO WORC  
WOW WQAM WREC WSFA WTAQ  
WTAR WTOC

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

C — **Vaughn DeLeath**  
KLRA WAAB WABC WBIG WBRC  
WDAE WDBJ WDDB WDOD WDSU  
WFEA WGST WORC WREC WSFA  
WTAR WTOC

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

C — **The Funnyboners**  
CFRB CKOK KDYL KFAB KFH  
KFJF KLRA KLZ KSCJ KTRH  
WAAB WABC WBBM WBIG WBRC  
WBT WCAH WCAO WCAU WDAE  
WDBJ WDDB WDOD WGST WHAS  
WHP WISN WJAS WKBN WKBN  
WKBW WLBW WNAX WNOX WOKO  
WORC WOV WQAM WREC WSFA  
WSPD WTAQ WTAR WTOC WWVA

R — **Donald Novis, Tenor**

KECA KEX KFSD KGA KJR KOA  
KPO KSD WAPI WEAF WFRB WFI  
WHO WIS WMAQ WOC WSAI WSB  
WSM WWJ WWNC

B — **Lowell Thomas**

CKGW KDKA WBAL WBZ WBZA  
WGR WHAM WJR WJZ WLW

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

C — **Myrt and Marge**  
KMOX WABC WADC WCAO WCAU  
WDRS WEAN WFBL WGR WJAS  
WKRK WMAL WNAC WOKO WSPD  
WWVA

R — **Harriet Lee and Her Leaders**

KFI KFSD KGO KHQ KOA WBEN  
WEAF WJAR WMAQ WTAG

B — **Amos 'n' Andy**

CKGW KDKA WBAL WBZ WBZA  
WCKY WJAX WJZ WLW WPTF  
WRC WRC

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

C — **Isham Jones and Orchestra**

CKOK KFH KMBC KMOX KSCJ  
KTRH WABC WBCM WBIG WBRC  
WBT WCAO WCAU WCCO WDAE  
WDBJ WDDB WDOD WDRC WEAN  
WFBL WGR WGST WHEC WHP  
WISN WJAS WKBN WKBW WMAL  
WNAC WNAX WNOX WOKO WORC  
WOW WQAM WREC WSFA WTAQ  
WTOC

B — **Tastyest Jesters**

KDKA WBAL WBZ WBZA WCKY  
WJZ

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

R — **Maxwell House Program**

WBEN WCAE WCSH WDAF WEEI  
WFRB WFLA WGY WIOD WIS  
WJAR WJAX WLIT WPTF WRC  
WRVA WSAI WTAG WTIC WWNC  
B — **Stebbins Boys**  
KDKA KFI KGO KGW KHQ KOA  
KOMO KSL KWK WBAW WBZ  
WBZA WCKY WENR WGAR WHAM  
WJR WJZ WREN

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

C — **Tito Guizar, Tenor**

CFRB CKOK KFAB KFH KLZ  
KMBC KRLL KSCJ KTRH WABC  
WBBM WBCM WBIG WBRC WBT  
WCAH WCAO WCAU WDAE WDBJ  
WDBO WDOD WDRC WEAN WFBL  
WFBM WFEA WGR WGST WHAS  
WHEC WHK WHP WISN WJAS  
WKBW WMAL WNAC WNAX WNOX  
WODX WOKO WORC WQAM WREC  
WSFA WSPD WTAQ WTAR WTOC  
WWVA

R — **The Goldbergs**

KSD WBEN WCAE WCSH WDAF  
WEAF WEEI WENR WFRB WGY  
WJAR WLIT WOW WRC WSAI  
WTAG WTAM WWJ

B — **Billy Jones and Ernie Hare**

KDKA KOIL KPRC KWK WAPI  
WBAL WBZ WBZA WCKY WFAA  
WFLA WGAR WHAM WIOD WIS  
WJAX WJDX WJZ WKY WMAQ

**Monday—Continued**

WMC WOAI WPTF WREN WRVA  
WSB WSM WSMB WWNC

**ED-8:00 p.m., E-7:00, C-6:00, M-5:00**  
C — Edwin C. Hill

CFRB CKOK KDYL KFAB KFJF  
KFPY KFRK KGB KHJ KMBC  
KOH KOL KRLD KSCJ KTRH KVI  
WABC WACO WBCM WBIG WBRC  
WBT WCAO WCCO WDAE WDBJ  
WDOD WDOD WDRS WDSU WEAN  
WFAN WFBL WFBM WGL WGR  
WGST WHEC WHK WHP WIP  
WISN WKBN WKWB WMAL WNAC  
WNAZ WNOX WODX WOKO WQAM  
WSPA WTAD WTAR WTCO WWVA

**R — Socynland Sketches**  
WBEN WCHS WFAF WEEI WGY  
WJAR WTAG WVIC

**B — Carnation Contented Program**  
KDKA KOIL KWK WBAL WCKY  
WHAM WJR WJZ WLS WREN

**ED-8:15 p.m., E-7:15, C-6:15, M-5:15**  
C — Singin' Sam

CKOK KMBC KMOX WABC WADC  
WCAO WCAU WCCO WDRS WEAN  
WFBL WFBM WGN WGR WHK  
WJAS WKRC WMAL WNAC WOKO  
WSPD

**ED-8:30 p.m., E-7:30, C-6:30, M-5:30**  
C — Kate Smith, La Palina

CKOK KFAB KFH KFJF KMBC  
KMOX WABC WADC WBCM WCAH  
WCAO WCAU WCCO WFLB WFBM  
WGN WGR WHAS WHEC WHK  
WISN WJAS WKBN WKRC WMAL  
WOKO WSPD

**R — Voice of Firestone**  
CFCF CKGW KPRC KSD KTBS  
KTBS KVVO WAPI WBEN WCAE  
WCHS WDAF WFAF WEEI WFAA  
WFRB WFLA WGY WHO WIOD  
WIS WJAR WJAX WJDX WKY  
WLIT WMAQ WMC WOAI WOC  
WOW WPTF WRC WRVA WSAI  
WSB WSM WSMB WTAG WTAM  
WVIC WWJ WWNC

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

CKOK KMBC KMOX WABC WADC  
WCAO WCAU WDRS WEAN WFBL  
WGN WGR WHK WJAS WKRC  
WMAL WNAC WOKO WSPD

**ED-9:00 p.m., E-8:00, C-7:00, M-6:00**  
R — A. & P. Gypsies

KSD WBEN WCAE WCHS WFAF  
WEEI WGY WHO WJAR WLIT  
WMAQ WOC WOW WRC WSAI  
WTAG WTAM WVIC WWJ

**B — Sinclair Wiener Minstrels**  
KDKA KFYR KOIL KPRC KSTP  
KTBS KVVO KWCR KWK WBAL  
WBLB WBZA WDAY WEBC WFAA  
WFLA WGAR WHAM WIBA WIOD  
WIS WJAX WJDX WJZ WKY WLS  
WMC WOAI WPTF WREN WRVA  
WSB WSM WSMB WTMJ WWNC

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

CKOK KMBC KMOX WABC WADC  
WCAO WCAU WDRS WEAN WFBL  
WGN WHAS WHEC WHK WJAS  
WKBN WKRC WMAL WNAC WOKO  
WSPD

**ED-9:30 p.m., E-8:30, C-7:30, M-6:30**  
C — Surprise Package

CFRB CKOK KDYL KFAB KFJF  
KFPY KFRK KHJ KLRA KLZ KMBC  
KRLD KSCJ KTRH KVROR WABC  
WBMM WBCM WBIG WBRC WBT

WCAH WCAO WCAU WCCO WDAE  
WDBJ WDOD WDRS WDSU  
WEAN WFBL WFBM WFEA WHAS  
WHEC WHK WIBW WISN WJAS  
WKBB WKBW WLWB WMAL  
WNAC WNAX WNOX WODX WOKO  
WORC WQAM WREC WSPD WTAQ  
WTAR WTCO

**R — General Motors Program**  
KPI KFYR KGO KGW KHQ KOA  
KOMO KPRC KSD KSL KSTP WBEN  
WCAE WCHS WDAF WFAF WEEI  
WENR WFAA WFRB WGY WHO  
WJAR WKY WLIT WMC WOAI  
WOC WOW WRC WSAI WBS WSM  
WTAG WTAM WVIC WTMJ WWJ

**B — Jack Benny, Geo. Olsen**  
CFCF CKGW KDKA KOIL KWCR  
KWK WBAL WBZ WBZA WGAR\*  
WHAM WJR WJZ WLW WMAQ  
WREN

**ED-10:00 p.m., E-9:00, C-8:00, M-7:00**  
C — Music That Satisfies

CKOK KDB, KDYL KERN KFBK  
KFH KFJF KFPY KFRS KGB KHJ  
KLRA KLZ KMBC KMJ KMOX  
KOH KOIN KOL KRLD KTRH KTSB  
KVI KWG WABC WADC WBRC  
WBT WCAO WCAU WCCO WDBJ  
WDRS WDSU WEAN WFBL WFBM  
WGN WGST WHAS WHEC WHK  
WISN WJAS WKBW WKRC WLAC  
WLBZ WMAL WMBG WMT WNAC  
WOKO WOW WPG WREC WRUF  
WSPD WTAR

**R — National Radio Forum**  
KPSD KFYR KGHM KGIR KGO  
KGV KOA KOMO KPRC KSD KSL  
KSTP KTBS KVVO WBEN WCHS  
WDAY WFAF WEBC WEEI WENR  
WFLA WGY WEO WIBA WIOD  
WOAI WOC WOW WPTF WRC  
WVA WSAI WSB WSM WTAG  
WTAM WWJ WWNC

**B — Phillips Lord, Country Doctor**  
CFCF CKGW KDKA KOIL KWCR  
KWK WBAL WBZ WBZA WCKY  
WGAR WHAM WJR WJZ WMAQ  
WREN

**ED-10:15 p.m., E-9:15, C-8:15, M-7:15**  
B — Whispering Jack Smith

KDKA KOIL KWCR KWK WBAL  
WBZ WBZA WGAR WHAM WJZ  
WLW WMAQ WREN

**ED-10:30 p.m., E-9:30, C-8:30, M-7:30**  
C — Guy Lombardo and Orchestra

CFRB CKOK KDYL KFAB KFH  
KFJF KFRS KHJ KLRA KLZ KMBC  
KMOX KOL KRLD KSCJ KTRH  
KVROR WAAB WABC WBCM WBIG  
WBRC WBT WCAH WCAO WCAU  
WCCO WDAE WDBJ WDOD WDOD  
WDRS WDSU WEAN WFBM WFEA  
WGST WHEC WHK WHP WIBW  
WJAS WKBB WKBW WLWB WMAL  
WMBD WNAX WNOX WODX WOKO  
WORC WOW WQAM WREC WSPD  
WTCO

**B — "Tish"**  
CFCF KFYR KSTP KTBS KVVO  
KWCR KYW WBAL WCKY WEBC  
WHAM WIBA WIOD WIS WJAX  
WJMN WREN WSM WWNC

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

CKOK KDYL KFAB KFPY KFRS  
KHJ KLZ KMBC KMJ KOIN KOL  
WBEN WCCO WHAS

**B — Jane Froman and Orchestra**  
KWCR KYW WBAL WCKY WHAM  
WJZ WREN

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

C — Howard Barlow's Symphony  
CFRB CKOK KDYL KFAB KFBK  
KFJF KFRS KHJ KLRA KMBC  
KMOX KSCJ KTRH KVROR WAAB  
WABC WBCM WBIG WBRC WBT  
WCAH WCAO WDAE WDBJ WDOD  
WDOD WDRS WDSU WEAN WFBL  
WFBM WGST WHAS WHK WHP  
WIBW WJAS WKBN WKBW WLWB  
WMAL WMBD WNAX WNOX  
WOKO WORC WOW WPG WQAM  
WREC WSPA WSPD WTCO

**R — Paul Whiteman and Orchestra**  
WEAF WEEI WFRB WJAR WLIT  
WRC

**B — Amos 'n' Andy**  
KFI KFSD KGO KGW KHQ KOA  
KOIL KOMO KPRC KSL KSTP  
KTBS KWK WBAP WCKY WDAF  
WENR WGAR WHAM WJR WKY  
WMAQ WMC WOAI WREN WSB  
WSM WSMB WTMJ

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

KFI KFSD KGO KGW KHQ KOA  
KOMO KPRC KSD KSL KSTP  
KTAR KTBS KTBS WAPI WBAP  
WDAF WENR WHO WJDX WKY  
WMC WOAI WOC WSB WSM WSMB  
WTAM WTMJ WWJ

**B — Summer Symphony**  
CFCF KTBS KWCR WBAL WCKY  
WENR WHAM WIOD WJZ WREN  
WSB

**ED-11:30 p.m., E-10:30, C-9:30, M-8:30**  
C — Charles Carlile, Tenor

CKOK KFBK KFJF KFRS KLRA  
KMBC KMOX KSCJ KTRH KVROR  
WAAB WABC WBCM WBIG WBRC  
WBT WCCO WDAE WDBJ WDOD  
WDOD WDRS WDSU WEAN WFBM  
WGST WHAS WHEC WHP WJAS  
WKBN WKBW WLWB WMAL  
WMBD WNAX WNOX WOKO WORC  
WOW WQAM WREC WSPA WSPD  
WTAR WTCO

**R — Voice of Firestone**  
KFI KFSD KFYR KGHM KGIR KGO  
KGV KOA KOMO KPRC KSD KSL  
KSTP KTAR WDAY WEBC WIBA  
WTMJ

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

CFRB CKOK KDYL KFAB KFBK  
KFJF KFRS KHJ KLRA KMBC  
KOL KSCJ KTRH KVROR WAAB  
WABC WBCM WBIG WBRC WBT  
WCAH WCAO WCCO WDAE WDBJ  
WDOD WDOD WDRS WDSU WEAN  
WFAN WFBL WFBM WGL WGST  
WHAS WHEC WHP WIBW WIP  
WISN WKBN WKBW WLWB WMAL  
WMBD WNAX WNOX WOKO WORC  
WQAM WREC WSPA WSPD WTAR  
WTCO WWVA

**R — Baron Lee and Orchestra**  
WEAF WEEI WFRB WJAR WRC  
WVIC

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

CKOK KDYL KFAB KFBK KFH  
KFJF KLRA KMBC KMOX KOL  
KRLD KSCJ KTRH KVROR WABC  
WBCM WBRC WBT WCAH WCAU  
WCCO WDAE WDBJ WDOD WDOD  
WDSU WEAN WFBL WFBM WGL  
WGST WHAS WHEC WHP WIBW  
WISN WKBN WKBW WLWB WMAL  
WMBD WNAC WNAX WNOX WOKO  
WPG WQAM WREC WSPA WSPD  
WTAR WTCO WWVA

**Monday—Continued**

ED-12:05 a.m., E-11:05, C-10:05, M-9:05  
**R—Buddy Rogers and Orchestra**  
 KSTP WAFI WCAE WKCY WDAF  
 WDAY WEAF WENR WIOD WLIT  
 WMAQ WRC WTAM WWJ  
 ED-12:30 a.m., E-11:30, C-10:30, M-9:30  
**R—Clyde McCoy's Orchestra**  
 KOIL KWCR WBAL WJR WJZ WLW  
**B—Billy Jones and Ernie Hare**  
 KFI KFSB KGO KGW KHQ KOA  
 KOMO KSL KTAR

**TUESDAY**

ED-8:30 a.m., E-7:30, C-6:30, M-5:30  
**R—Cheerio, See Monday**  
 ED-9:00 a.m., E-8:00, C-7:00, M-6:00  
**C—Little Jack Little, See Monday**  
 ED-10:15 a.m., E-9:15, C-8:15, M-7:15  
**B—Clara, Lu 'n' Em, See Monday**  
 ED-12:30 p.m., E-11:30, C-10:30, M-9:30  
**C—Columbia Revue, See Monday**  
 ED-1:30 p.m., E-12:30, C-11:30, M-10:30  
**B—National Farm and Home, See Mon.**  
 ED-5:45 p.m., E-4:45, C-3:45, M-2:45  
**B—Little Orphan Annie, See Monday**  
 ED-6:00 p.m., E-5:00, C-4:00, M-3:00  
**C—Irene Beasley, See Monday**  
**R—Waldorf-Astoria Orch., See Mon.**  
 ED-6:30 p.m., E-5:30, C-4:30, M-3:30  
**C—Jack Miller and Orchestra**  
 KLRA WABC WBIG WBRC WDBJ  
 WDBO WDOD WDSU WFEA WGST  
 WNOX WORC WREC WSFA WTAR  
 WTOC  
**B—Sheer Romance, Drama**  
 KDKA KFI KFYZ KGO KOA KOIL  
 KSTP KTBS KWCR WBAL WHAM  
 WIBA WIOD WJDX WJZ WKY  
 WLW WMC WREN WSM WWNC  
 ED-6:45 p.m., E-5:45, C-4:45, M-3:45  
**R—Back of the News in Washington**  
 KFI KFSB KGHl KGIR KGO KOA  
 KSD KTAR WAPI WEAf WFBZ  
 WFI WIOD WIS WJAR WJDX  
 WMAQ WOV WPTF WRC WSM  
 WSMB WTAG WWNC  
**B—Lowell Thomas, See Monday**  
 ED-7:00 p.m., E-6:00, C-5:00, M-4:00  
**R—Mid-Week Hymn Sing**  
 KFI KGR KGO KOA KSD KTAR  
 WAPI WBEN WEAf WJAR WJDX  
 WMAQ WSAI WSMB WTAG  
**C—Myrt and Marge, See Monday**  
**B—Amos 'n' Andy, See Monday**

ED-7:15 p.m., E-6:15, C-5:15, M-4:15  
**C—Keenan and Phillips, Piano**  
 CFRB CKOK KFH KLZ KMBC KOH  
 KSCJ KTRH KTSa KVOR WABC  
 WACO WBCM WBIG WBRC WCAO  
 WCAU WCCO WDAE WDBJ WDBO  
 WDOD WDRC WDSU WEAN WFBL  
 WGR WGST WHAS WHEC WHP  
 WISN WJAZ WKBH WKBN WMAL  
 WNAC WNAX WNOX WOKO WORC  
 WOWO WQAM WREC WSFA WSPD  
 WTAQ WTOC  
 ED-7:30 p.m., E-6:30, C-5:30, M-4:30  
**R—Ray Perkins**  
 KSD KYW WBEN WCAE WCSH  
 WEAf WEEI WFBR WFI WGY  
 WHO WJAR WOC WOW WRC WSAI  
 WTAG WTAM WWJ  
**B—Stebbins Boys, See Monday**  
 ED-7:45 p.m., E-6:45, C-5:45, M-4:45  
**C—Chase & Sanborn, Georgia Price**  
 CKOK KMBC KMOX WABC WBBM

WCAO WCAU WGR WHK WJAS  
 WKRC WNAC WOKO  
**R—The Goldbergs, See Monday**  
**B—Gene Austin, Tenor**  
 CFCE KDKA KGO KOIL WBAL  
 WBZ WBZA WKY WGAR WHAM  
 WJR WJZ WKY WMAQ WMC WREN  
 ED-8:00 p.m., E-7:00, C-6:00, M-5:00  
**C—Edwin C. Hill, See Monday**  
**R—Blackstone, Sanderson-Crumit**  
 KSD KSTP KYW WBEN WCAE  
 WCSH WDAE WEAf WEBC WEEI  
 WFI WGY WHO WJAR WOC WOW  
 WRC WSAI WTAG WTAM WWJ  
 ED-8:15 p.m., E-7:15, C-6:15, M-5:15  
**C—Abe Lyman and Orchestra**  
 CKOK KMBC KMOX WABC WADC  
 WCAO WCAU WDRC WEAN WFBL  
 WFBM WGN WGR WHK WJAS  
 WKRC WMAL WNAC WOKO WSPD  
 ED-8:30 p.m., E-7:30, C-6:30, M-5:30  
**C—Kate Smith, See Monday**  
**R—Walter Smith and Orchestra**  
 KSD WCSH WDAE WEAf WEEI  
 WFBR WFI WGY WHO WJAR WOC  
 WRC WSAI WTAG WTAM WTIC  
 WWJ  
 ED-8:45 p.m., E-7:45, C-6:45, M-5:45  
**B—Rosa Low, Song Recital**  
 CKGW KDKA KEX KFYZ KJR  
 KOIL KPO KSTP KTBS KVOO WBAL  
 WGAR WHAM WIBA WIOD WJR  
 WJZ WKY WMAQ WREN  
 ED-9:00 p.m., E-8:00, C-7:00, M-6:00  
**C—Jay C. Flippen-cies**  
 CFRB CKOK KDYL KFAB KFBK  
 KFH KFJF KPZY KHJ KLRA KLZ  
 KMBC KMOX KOL KRLD KTRH  
 KVOR WABC WACO WBCM WBIG  
 WBRC WBT WCAH WCAO WCAU  
 WCCO WDAE WDBJ WDBO WDOD  
 WDRC WDSU WFEA WFBM WFEA  
 WGL WGST WHAS WHEC WHP  
 WIBW WISN WJAS WKBH WKBN  
 WKBW WMAL WNAC WNAX WNOX  
 WODX WORC WQAM WREC WRUF  
 WSPD WTAQ WTAR WTOC WWVA  
**R—National Artists' Series**  
 CKGW KEX KGA KJR KOA KPO  
 KTAR KTBS WBEN WCAE WCSH  
 WDAE WEAf WFBR WFI WFLA  
 WGY WHO WIOD WJAR WKY  
 WMAQ WMC WOAf WOC WTAG  
 WTAM WWNC  
**B—Household Program**  
 BKKA KWK WBAL WBEN WBZ  
 WBZA WECB WHAM WIBA WJR  
 WJZ WLS WTMJ  
 ED-9:30 p.m., E-8:30, C-7:30, M-6:30  
**C—Ene Crime Club**  
 CKOK KMBC KMOX WABC WADC  
 WCAO WCAU WDRC WEAN WFBL  
 WGN WHEK WJAS WKBW WKRC  
 WMAL WNAC WSPD  
**R—Ed Wynn-Don Voorhees**  
 KGRF KFI KFSB KFYZ KGHl  
 KFCO KGO KGW KHQ KOA KOMO  
 KPRC KSD KSL KSTP KTAR KTBS  
 KVOO WBAL WBEN WCAE WCSH  
 WDAE WDAY WEAf WEBC WEEI  
 WFBR WFI WGY WHO WIBA  
 WIOD WIS WJAR WJAX WJDX  
 WKY WMAQ WMC WOAf WOC  
 WOW WPTF WRC WRVA WSAI  
 WBS WSMB WTAG WTAM WTMJ  
 WWJ WWNC  
**B—Friendship Town**  
 BKKA KOIL KWK KYW WBAL  
 WBZ WBZA WGAR WHAM WJR  
 WJZ WREN

ED-10:00 p.m., E-9:00, C-8:00, M-7:00  
**C—Music That Satisfies, See Monday**  
**R—Lucky Strike Dance Hour**  
 KFI KFSB KFYZ KGO KGW KHQ  
 KOA KOMO KPRC KSD KSL KSTP  
 KTAR KTBS KTHS KVOD WBAP  
 WBEN WCAE WCSH WDAE WDAY  
 WEAf WEBC WEEI WENR WFBR  
 WFI WFLA WGY WHO WIBA WIOD  
 WIS WJAR WJAX WJDX WKY  
 WMC WOAf WOC WOW WRC WRVA  
 WSAI WSB WSM WSMB WTAG  
 WTAM WTMJ WWJ WWNC  
**B—Phillips Lord, See Monday**  
 ED-10:15 p.m., E-9:15, C-8:15, M-7:15  
**C—Musical Fast Freight**  
 CKOK KFH KFJF KLRA KMBC  
 KMOX WAAB WABC WADC WBBM  
 WCAO WCAU WCCO WDAE WDBJ  
 WDBO WDRC WEAN WFBL WFBM  
 WHK WJAS WKBW WKRC WMAL  
 WOKO WOWO WQAM WSPD WTOC  
**B—Sigmund Spaeth, Tune Detective**  
 CFCE KWCR WBZ WBZA WGAR  
 WJZ  
 ED-10:30 p.m., E-9:30, C-8:30, M-7:30  
**C—Isham Jones and Orchestra**  
 CFRB CKOK KDYL KFBK KFH  
 KFJF KFRC KGB KHJ KLRA KLZ  
 KMBC KOH KSCJ KTRH KTSa  
 KVI KVOR WAAB WABC WBCM  
 WBIG WBRC WBT WCAH WCAO  
 WCAU WCCO WDAE WDBJ WDBO  
 WDOD WDRC WDSU WEAN WFBL  
 WFBM WFEA WGST WHAS WHEC  
 WHK WHP WIBW WJAS WKBH  
 WKBN WKBW WLWB WMAL  
 WMBD WNAX WNOX WODX  
 WOKO WORC WOWO WPG WQAM  
 WREC WSPD WTOC  
**B—Tish See Monday**  
 ED-10:45 p.m., E-9:45, C-8:45, M-7:45  
**C—Myrt and Marge, See Monday**  
**B—Jane Froman and Orch., See Mon.**  
 ED-11:00 p.m., E-10:00, C-9:00, M-8:00  
**C—Columbia Symp. Orch., See Mon.**  
**B—Amos 'n' Andy, See Monday**  
 ED-11:15 p.m., E-10:15, C-9:15, M-8:15  
**B—Cesare Sodero Concert Orchestra**  
 CFCE CKGW KDKA KEX KFYZ  
 KGA KJR KOA KPO KSTP KTBS  
 KWCR WBAL WKCY WENR WFLA  
 WHAM WIOD WIS WJAX WJZ  
 WKY WRC WREN WSM WWNC  
 ED-11:30 p.m., E-10:30, C-9:30, M-8:30  
**C—Little Jack Little**  
 CFRB CKOK KDYL KFAB KFBK  
 KFH KFJF KPZY KFCR KGB KHJ  
 KLRA KLZ KMBC KMOX KOH  
 KOL KRLD KSCJ KTRH KTSa  
 KVI KVOR WAAB WABC WACO  
 WBCM WBIG WBRC WBT WCAH  
 WCAO WCAU WCCO WDAE WDBJ  
 WDBO WDOD WDSU WFBL WFBM  
 WGST WHAS WHEC WHK WHP  
 WIBW WISN WKBN WKBW WLWB  
 WMAL WMBD WNAX WNOX  
 WORC WOWO WQAM WREC WSFA  
 WSPD WTAR WTOC  
**R—Jack Denny and Orchestra**  
 KSD WCAE WDAE WEAf WEEI  
 WFBR WFI WJAR WMAQ WTAM  
 WWJ  
 ED-11:45 p.m., E-10:45, C-9:45, M-8:45  
**C—Freddie Martin's Orch., See Mon.**  
 ED-12:00 a.m., E-11:00, C-10:00, M-9:00  
**C—Harold Stern and Orchestra**  
 CKOK KDYL KFAB KFH KFJF  
 KFYZ KFRC KGB KLRA KLZ  
 KMBC KMOX KOH KSCJ KTRH

**Tuesday—Continued**

KVOR WABC WACO WBCM WBRC  
WBT WCAH WCAU WDAE WDBJ  
WDBO WDOD WDSU WENB WFBM  
WGST WHAS WHEC WHP WJBW  
WISN WKBN WKWB WLWB WMBD  
WNAC WNAX WNOX WOKO WOWO  
WQAM WREC WSFA WSPD WTAQ  
WTOC

ED-12:05 a.m., E-11:05, C-10:05, M-9:05  
R—Paul Whiteman and Orchestra  
CFCF KEX KGA KGO KGW KHQ  
KJR KPO KTBS WBEN WCAE  
WDAF WEAQ WFAA WFRB WFLA  
WGY WKY WMAQ WMC WOW WRC  
WSB WSM WTAM WWJ WWNC  
ED-12:30 p.m., E-11:30, C-10:30, M-9:30  
B—Chas. Alben and Orchestra  
KWCR WBAL WHAM WJR WJZ  
WMAQ WREN

**WEDNESDAY**

ED-8:30 a.m., E-7:30, C-6:30, M-5:30  
R—Cherio, See Monday  
ED-9:00 a.m., E-8:00, C-7:00, M-6:00  
C—Little Jack Little, See Monday  
ED-10:15 a.m., E-9:15, C-8:15, M-7:15  
B—Clara Lu 'n' Em, See Monday  
ED-12:30 p.m., E-11:30, C-10:30, M-9:30  
C—Columbia Revue, See Monday  
ED-1:30 p.m., E-12:30, C-11:30, M-10:30  
B—National Farm and Home, See Mon.

ED-5:45 p.m., E-4:45, C-3:45, M-2:45  
B—Little Orphan Annie, See Monday  
ED-6:00 p.m., E-5:00, C-4:00, M-3:00  
C—Irene Beasley, See Monday  
R—Waldorf-Astoria Orch., See Monday  
ED-6:30 p.m., E-5:30, C-4:30, M-3:30  
C—William Vincent Hall  
KLRA WAAB WABC WBIG WBRC  
WDAE WDBJ WDBO WDOD WDSU  
WFEA WGST WORC WREC WSFA  
WTAQ WTOC

R—Harding Sisters, Organ-Piano  
KEX KFSD KGA KJR KTBS WAPI  
WEAF WFRB WFI WJOD WJAR  
WMAQ WMC WRC WSAI WTAG  
WWJ  
B—Dandies of Yesterday  
KEX KGA KGHL KJR KOA KOIL  
KWCR WBAL WGAR WJZ WLW  
WMAQ WREN WSM

ED-6:45 p.m., E-5:45, C-4:45, M-3:45  
C—Funnies, See Monday  
R—Donald Novis, See Monday  
B—Lowell Thomas, See Monday  
ED-7:00 p.m., E-6:00, C-5:00, M-4:00  
C—Myrt and Marge, See Monday  
B—Amos 'n' Andy, See Monday

ED-7:15 p.m., E-6:15, C-5:15, M-4:15  
C—Melodiers, Male Quartet  
CKOK KFH KHJ KLZ KMBC KMOX  
KOH KSCJ KTRH KVOR WABC  
WACO WBCM WBIG WBRC WBT  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDOD WDRS WDSU WEAN  
WFBL WGR WGST WHAS WHEC  
WHP WISN WJAS WKHB WKBN  
WMAL WNAC WNAX WNOX WOKO  
WORC WOWO WQAM WREC WSFA  
WSPD WTAQ WTOC

B—Royal Vagabonds, Ward Wilson  
KDKA KFI KGO KGW KHQ KOA  
KOIL KOMO KPRC KWK WAPI  
WBAL WBZ WBZA WCKY WECB  
WGAR WIOD WJAX WJDX WJZ  
WKY WMAQ WMC WQAI WPTF

WREN WRVA WSB WSM WSMB  
WTMJ WWNC  
ED-7:30 p.m., E-6:30, C-5:30, M-4:30  
R—Maxwell House Program, See Mon.  
B—Stebbins Boys, See Monday

ED-7:45 p.m., E-6:45, C-5:45, M-4:45  
C—Connie Boswell  
CFRB CKOK KFAB KFH KFPY  
KHJ KLZ KMBC KOH KRLL KSCJ  
KTRH KVOR WABC WACO WBCM  
WBIG WBRC WBT WCAH WCAO  
WCAU WDBJ WDBO WDRS WDSU  
WEAN WFBL WFBM WFEA WGR  
WGST WHAS WHEC WHK WHP  
WISN WJAS WKBN WNAC WNAX  
WNOX WODX WOKO WORC WOWO  
WQAM WREC WSFA WSPD WTAQ  
WTAQ WTOC WWVA  
R—The Goldbergs, See Monday  
B—Billy Jones & Ernie Hare, See Mon.

ED-8:00 p.m., E-7:00, C-6:00, M-5:00  
C—Edwin C. Hill See Monday  
R—Big Time, Johnny Hart  
KSD WBEN WCAE WCSH WDAF  
WEAF WEEI WFRB WGY WHO  
WJAR WLIT WLS WOC WOW  
WRC WSAI WTAG WTAM WTIC  
WWJ  
B—American Taxpayers' League  
KDKA KFSD KFYP KGR KGO  
KOA KOIL KOMO KTAQ KTBS  
KWCR KWK KYW WBAL WDAY  
WFAA WFLA WIBA WIOD WJAX  
WJDX WJZ WKY WMC WQAI  
WPTF WREN WSM WWNC

ED-8:15 p.m., E-7:15, C-6:15, M-5:15  
C—Singin' Sam, See Monday  
ED-8:30 p.m., E-7:30, C-6:30, M-5:30  
C—Kate Smith, See Monday  
B—Jack Frost Melody Moments  
KDKA WBAL WGAR WHAM WJR  
WJZ WLS WLW

ED-8:45 p.m., E-7:45 C-6:45 M-5:45  
C—Col. Stoopnagle and Budd, See  
Monday  
ED-9:00 p.m., E-8:00, C-7:00, M-6:00  
C—Guy Lombardo-Burns and Allen  
CKOK KFJF KMBC KMOX KTRH  
KTSB WABC WADC WCAO WCAU  
WCCO WDRS WEAN WFBL WFBM  
WGN WHK WJAS WKWB WKRC  
WMAL WNAC WOKO WOWO WRR  
WSPD

R—Goodyear Program  
KFYR KPRC KSD KSTP KTHS  
KVOD KYW WBEN WCAE WCSH  
WDAF WEAQ WFBM WEEI WFAA  
WFRB WFLA WGY WHO WIBA  
WIOD WIS WJAR WJAX WJDX  
WKY WLIT WMC WQAI WOC  
WOW WPTF WRC WRVA WSAI  
WSB WSM WSMB WTAG WTAM  
WTIC WTMJ WWJ WWNC  
B—Island Boat Club Dance  
KDKA KWK WBAL WBZ WBZA  
WGAR WHAM WJR WJZ WLW  
WMAQ WREN

ED-9:30 p.m., E-8:30, C-7:30, M-6:30  
C—Ene Crime Club, See Tuesday  
R—Mobilio Concert  
KFI KFYP KGO KGW KHQ KOA  
KOMO KPRC KSD KSL KSTP  
KTAQ KVOO WBEN WCAE WCSH  
WDAF WDAY WEAQ WEEI WENR  
WENR WFAA WFRB WFLA WGY  
WHO WIBA WIOD WIS WJAR  
WJAX WJDX WKY WLIT WMC  
WQAI WOC WOW WRC WSAI WSB  
WSM WSMB WTAG WTAM WTIC  
WTMJ WWJ WWNC  
B—Jack Benny, Geo. Olsen, See Mon.

ED-10:00 p.m., E-9:00, C-8:00, M-7:00  
C—Music That Satisfies, See Monday  
R—Corn Cob Pipe Club  
KFI KGHL KGR KGO KGW KHQ  
KOA KOMO KSD KSL WBEN WCAE  
WCSH WDAF WEAQ WEEI WENR  
WFRB WGY WHO WJAR WLIT  
WOC WOW WRC WRVA WSAI  
WTAG WTAM WTIC WWJ  
B—Phillips Lord, See Monday

ED-10:15 p.m., E-9:15, C-8:15, M-7:15  
C—Adventures in Health  
CKOK KMBC KMOX KRLL WAAB  
WABC WADC WBEM WCAO WCAU  
WCCO WDRS WDSU WEAN WFBL  
WHAS WHK WJAS WKWB WKRC  
WMAL WOKO WOWO WSPD  
B—Whispering Jack Smith, See Mon.

ED-10:30 p.m., E-9:30, C-8:30, M-7:30  
C—Isam Jones and Orch., See Tues.  
R—Archer Gibson, Organist  
KECA KEX KFYP KGA KGHL  
KGR KJR KOA KPO KSL KTBS  
WCAE WCSH WEAQ WEEI WGY  
WIBA WIOD WJAR WLIT WMC  
WPTF WWNC  
B—Tish, See Monday

ED-10:45 p.m., E-9:45, C-8:45, M-7:45  
C—Myrt and Marge, See Monday  
B—Jane Froman and Orch., See Mon.  
ED-11:00 p.m., E-10:00, C-9:00, M-8:00  
C—Columbia Symp. Orch., See Mon.  
R—Nellie Revell  
CFCF CKGW KSD WEAQ WGY  
WLIT WRC WWJ  
B—Amos 'n' Andy, See Monday

ED-11:15 p.m., E-10:15, C-9:15, M-8:15  
R—Maxwell House, See Monday  
B—Cesare Soderro's Orch., See Tuesday  
C—Ozzie Nelson and Orchestra  
CFRB CKOK KDYL KFAB KFJF  
KFYR KPRC KGB KLRA KLZ  
KMBC KMOX KOH KRLL KSCJ  
KTRH KTSB KVI KVOR WAAB  
WABC WACO WBCM WBIG WBRC  
WBT WCAH WCAO WCAU WCCO  
WDAE WDBJ WDBO WDOD WDRS  
WDSU WEAN WFBM WGST WHAS  
WHEC WHK WHP WJBW WISN  
WKWB WLWB WMAL WMBD  
WNOX WNOX WOKO WORC WOWO  
WQAM WREC WSFA WSPD WTAQ  
WTOC

ED-11:30 p.m., E-10:30, C-9:30, M-8:30  
C—Charles Carlile, See Monday  
ED-12:00 m., E-11:00, C-10:00, M-9:00  
C—Eddie Duchin and Orch., See Mon.  
B—Baron Lee and Orchestra  
KDKA KOIL KWCR WBAL WCKY  
WJZ WMAQ WRC

ED-12:05 a.m., E-11:05, C-10:05, M-9:05  
R—Buddy Rogers, See Monday  
ED-12:30 a.m., E-11:30, C-10:30, M-9:30  
C—Duke Ellington and Orchestra  
CKOK KDYL KFAB KFH KFJF  
KLRA KLZ KMBC KOH KTRH  
KVOR WABC WACO WBCM WBRC  
WBT WCAH WCAO WCAU WCCO  
WDAE WDBJ WDBO WDOD WDSU  
WEAN WFBM WFRB WGST WHAS  
WHEC WHP WJBW WISN WKWB  
WLWB WMAL WMBD WNAC WNAX  
WNOX WOKO WQAM WREC WSFA  
WSPD WTAQ WTOC  
B—Jones and Hare, See Monday

**THURSDAY**

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



**Thursday—Continued**

ED-9:00 a.m., E-8:00, C-7:00, M-6:00  
 C—Little Jack Little, See Monday

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

ED-12:30 p.m., E-11:30, C-10:30, M-9:30  
 C—Columbia Revue, See Monday

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

ED-5:15 p.m., E-4:15, C-3:15, M-2:15  
 R—Whiteman's Rhythm Boys, See Mon.

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

ED-6:00 p.m., E-5:00, C-4:00, M-3:00  
 C—Irene Beasley, See Monday  
 R—Waldorf-Astoria Orch., See Monday

ED-6:30 p.m., E-5:30, C-4:30, M-3:30  
 C—Jack Miller and Orch., See Tuesday  
 B—Old Songs of Church  
 KEX KFSD KGA KJR KOA KOIL  
 KPO KTBS KWCR WBAL WGAR  
 WJZ WKY WLW WMAQ WREN

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

ED-7:00 p.m., E-6:00, C-5:00, M-4:00  
 C—Myrt and Marge, See Monday  
 R—Clyde Doerr, Saxophone Octet  
 KGO KOA WAPI WBEN WEAF  
 WFI WJAR WMAQ WTAM  
 B—Amos 'n' Andy, See Monday

ED-7:15 p.m., E-6:15, C-5:15, M-4:15  
 B—Ward Wilson, See Wednesday

ED-7:30 p.m., E-6:30, C-5:30, M-4:30  
 R—Ray Perkins, See Tuesday  
 B—Stebbins Boys, See Monday

ED-7:45 p.m., E-6:45, C-5:45, M-4:45  
 C—George Price, See Tuesday  
 R—The Goldbergs, See Monday  
 B—Gene Austin, See Tuesday

ED-8:00 p.m., E-7:00, C-6:00, M-5:00  
 C—Edwin C. Hill See Monday  
 R—Fleischman, Rudy Vallee  
 CFCF CKGW KFI KFYZ KGO KGW  
 KHQ KOA KOMO KPRC KSD KSL  
 KSTP KTAR KVOO WAPI WBAP  
 WBEN WCAE WCKY WCSH WDAF  
 WDAY WEAF WEBC WEEI WFBR  
 WFI WFLA WGY WHO WIOD WJAR  
 WJAX WJDX WKY WMAQ WMC  
 WOA1 WOC WOW WPTF WRC  
 WRVA WSA1 WSB WSM WSMB  
 WTAG WTAM WTMJ WWJ  
 B—Regimentalists, Male Chorus  
 KOIL KWCR KWK WBZ WBZA  
 WENR WGAR WHAM WJZ

ED-8:15 p.m., E-7:15, C-6:15, M-5:15  
 C—Abe Lyman and Orch., See Tuesday  
 B—Sigmund Spaeth, Song Sleuth  
 KDKA KOIL KWK WBZ WBZA  
 WGAR WHAM WJR WJZ WLS WLW  
 WREN

ED-8:30 p.m., E-7:30, C-6:30, M-5:30  
 C—Gerardine Program  
 CROK KMBC KMOX WAAB WABC  
 WABC WCAO WCAU WDRC WFBL  
 WFBN WGN WGR WHK WJAS  
 WKRC WMAL WOW WSPD  
 B—Rin Tin Tin Thriller  
 KDKA KOIL KWK WBZ WBZA  
 WGAR WHAM WJZ WLS WLW  
 WREN

ED-9:00 p.m., E-8:00, C-7:00, M-6:00  
 R—School Room Frolics  
 KFYZ KGH1 KGIR KOA KPRC  
 KSD KSL KSTP KTBS KTHS KVOO  
 WAPI WBAP WBEN WCAE WCSH  
 WDAF WDAY WEAF WEBC WEEI

WFBR WFI WFLA WGY WHO  
 WIBA WIOD WIS WJAR WJAX  
 WJDX WKY WMAQ WMC WOA1  
 WOC WOW WPTF WRC WRVA  
 WSA1 WSB WSM WSMB WTAG  
 WTAM WTMJ WWJ WWNC

ED-9:15 p.m., E-8:15, C-7:15, M-6:15  
 C—Mills Bros., See Monday

ED-9:30 p.m., E-8:30, C-7:30, M-6:30  
 C—Love Story Hour  
 CROK KMBC KMOX WABC WADC  
 WCAO WCAU WDRC WEAN WFBL  
 WGN WHK WJAS WKBW WKRC  
 WMAL WNAC WSPD  
 R—G. Washington Coffee Concert  
 CFCF CKGW KSD WBEN WCAE  
 WCSH WDAF WEAF WEEI WENR  
 WFI WGY WHO WJAR WOC WOW  
 WRC WSA1 WTAG WTAM WWJ  
 B—Thompkins Corners  
 KDKA KFI KFSD KGO KGW KHQ  
 KOA KOIL KOMO KPRC KSL KSTP  
 KTAR KWCR KWK KYW WAPI  
 WBAL WBAP WBZ WBZA WEBC  
 WFLA WGAR WHAM WIOD WJAX  
 WJDX WJR WJZ WKY WLW WMC  
 WOA1 WREN WRVA WSB WSM  
 WSMB WTMJ WWNC

ED-10:00 p.m., E-9:00, C-8:00, M-7:00  
 C—Music That Satisfies, See Monday  
 R—Lucky Strike, See Tuesday  
 B—Phillips Lord, See Monday

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

ED-10:30 p.m., E-9:30, C-8:30, M-7:30  
 C—Isham Jones and Orch., See Tues.

ED-10:45 p.m., E-9:45, C-8:45, M-7:45  
 C—Myrt and Marge, See Monday  
 B—Jane Froman and Orch., See Mon.

ED-11:00 p.m., E-10:00, C-9:00, M-8:00  
 C—Columbia Symp. Orch., See Mon.  
 R—Paul Whiteman and Orch., See Mon.  
 B—Amos 'n' Andy, See Monday

ED-11:15 p.m., E-10:15, C-9:15, M-8:15  
 B—Cesare Soderò's Orch., See Tuesday

ED-11:30 p.m., E-10:30, C-9:30, M-8:30  
 C—Little Jack Little, See Tuesday

ED-11:45 p.m., E-10:45, C-9:45, M-8:45  
 C—Ozzie Nelson and Orch., See Wed.

ED-12:00 m., E-11:00, C-10:00, M-9:00  
 C—Noble Sissle and Orchestra  
 CROK KDYL KFAB KFBF KFH  
 KFJF KFPY KPRC KLRA KLZ  
 KMBC KMOX KOH KOL KRLD  
 KSCJ KTRH KTSa KVI KVOR  
 WABC WBCM WBRB WBT WCAH  
 WCAU WCCO WDAE WDBJ WDBO  
 WDDO WDSU WEAN WFBL WFBM  
 WGST WHAS WHEC WHP WIBW  
 WISN WKBW WKBW WLW WMBD  
 WNAC WNAX WNOX WODX WOKO  
 WOWO WQAM WREC WSPD WTAR  
 WTOC

ED-12:05 a.m., E-11:05, C-10:05, M-9:05  
 R—Tom Gerun and Orchestra  
 KEX KGA KGH1 KJR KPO KSD  
 KSTP KTAR KTBS WCKY WDAF  
 WEAF WENR WIOD WRC WTIC  
 WWJ

ED-12:30 a.m., E-11:30, C-10:30, M-9:30  
 B—Pacific Sereaders  
 KFYZ KOA KOIL KPRC KTBS  
 KTHS KVOO KWCR WBAL WENR  
 WFLA WHAM WIBA WJR WJZ  
 WKY WLW WMC WREN WSM  
 WSMB WWNC

**FRIDAY**

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

ED-9:00 a.m., E-8:00, C-7:00, M-6:00  
 C—Little Jack Little, See Monday

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

ED-12:30 p.m., E-11:30, C-10:30, M-9:30  
 C—Columbia Revue, See Monday

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

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

ED-6:00 p.m., E-5:00, C-4:00, M-3:00  
 C—Irene Beasley, See Monday  
 R—Waldorf-Astoria Orch., See Monday

ED-6:15 p.m., E-5:15, C-4:15, M-3:15  
 B—Graham Prince and Orchestra  
 KFYZ KOIL KSTP KTBS KWCR  
 WBAL WHAM WIBA WJZ WKY  
 WLW WMAQ WREN

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

ED-6:45 p.m., E-5:45, C-4:45, M-3:45  
 C—Madison Singers  
 CFRB CKOK KDYL KFAB KFH  
 KFJF KLRA KLZ KOH KSCJ KTRH  
 KTSa WAAB WABC WBCM WBIG  
 WBRB WCAE WCAU WDBJ WDBO  
 WDDO WDSU WDLB WGST WHAS  
 WHEC WHP WISN WJAS WKBH  
 WKBW WLW WNAX WNOX  
 WOKO WORC WOWO WQAM WREC  
 WSA1 WSPD WTAQ WTAR WTOC  
 WWVA

R—Merry Madcaps Dance Orchestra  
 KGO KOA KSD WCAE WEAF WIOD  
 WJAR WRC WTAG WTIC WWJ  
 B—Lowell Thomas, See Monday

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

ED-7:15 p.m., E-6:15, C-5:15, M-4:15  
 C—Isham Jones, See Monday  
 B—Ward Wilson, See Wednesday

ED-7:30 p.m., E-6:30, C-5:30, M-4:30  
 R—Maxwell House Program, See Mon.  
 B—Stebbins Boys, See Monday

ED-7:45 p.m., E-6:45, C-5:45, M-4:45  
 C—Connie Boswell, See Wednesday  
 R—The Goldbergs, See Monday  
 B—Billy Jones & Ernie Hare, See Mon.

ED-8:00 p.m., E-7:00, C-6:00, M-5:00  
 C—Edwin C. Hill, See Monday  
 R—Cities Service Orchestra  
 CKGW KOA KPRC KSD KSL KSTP  
 KTBS KTHS KVOO KYW WBEN  
 WCAE WCSH WDAF WEAF WEBC  
 WEEI WFAA WFBR WGY WHO  
 WJAR WKY WLIT WOA1 WOC  
 WOW WRC WSA1 WTAG WTAM  
 WTIC WTMJ WWJ

B—Nestlé's Program  
 KDKA KOIL KWK WBAL WBZ  
 WABC WCKY WGAR WHAM WJR  
 WJZ WLS WREN

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

ED-8:30 p.m., E-7:30, C-6:30, M-5:30  
 C—Andre Kostelanetz' Orchestra  
 CFRB CKOK KFAB KFBK KFJF  
 KFJF KGB KHJ KLRA KMBC  
 KMOX KOH KSCJ KTRH KVI  
 KVOR WABC WBIG WBRB WBT  
 WCAH WCAO WCAU WDAE WDBJ  
 WDBO WDDO WDRU WDSU WEAN  
 WFBM WFEA WGL WGR WHAS

**Friday—Continued**

WHEC WHP WISN WJAS WKBH  
WMAL WNAC WNAX WNOX WOKO  
WORC WPG WQAM WREC WSPD  
WTAQ WTAR WTOC WWVA

**B—Candle Lightin' Time**  
KDKA KOIL KTBS WBAL WBZ  
WBZA WCKY WFAA WFLA WGAR  
WHAM WIOD WJAX WJR WJZ  
WKY WMAQ WMC WOI WREN  
WSB WSM

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

**C—Kodak Week-End Hour**  
CKOK KLZ KMBC KMOX WABC  
WADC WCAO WCAU WCCO WDRC  
WEAN WFBL WFBM WGN WHEC  
WHK WJAS WKBW WKRC WMAL  
WNAC WOKO WSPD

**R—Cluqot Club**  
KSD WBEN WCAE WCSH WDAF  
WEAF WEEL WFBW WGY WHO  
WJAR WLIT WOC WQQ WOW  
WRC WSAI WTAG WTAM WTMJ  
WWJ

**B—First Nighter**  
KFSD KOA KSL KSTP KTAR WEBC  
WJZ WTMJ

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

**C—To the Ladies**  
CKOK KMBC KMOX KRLD WABC  
WADC WCAO WCAU WCCO WDRC  
WEAN WFBL WFBM WGN WGST  
WHAS WHK WJAS WKBW WKRC  
WMAL WNAC WOKO WSPD

**R—Pond's Program**  
KSD WBEN WCAE WCSH WDAF  
WEAF WENR WFBW WGY WHO  
WJAR WLIT WOC WQQ WRC  
WSAI WTAG WTAM WWJ

**B—Armour Program**  
KDKA KFI KGO KGW KHQ KOA  
KOL KOMO KPRC KSL KSTP  
KWK WAPI WBAL WBZ WBZA  
WEBC WFAA WGAR WHAM WIOD  
WJAX WJR WJZ WKY WMAQ  
WMC WOI WREN WRVA WSB  
WSM WSMW WTMJ WWNC

**ED-9:45 p.m., E-8:45, C-7:45, M-6:45**

**C—Jay C. Flippen, 4 Eton Boys**  
CFRB CKOK KDYL KFBK KFH  
KFJF KFRC KHJ KLRA KLZ KMBC  
KMOX KOH KOL KRLD KSCJ  
KTRH KVI KVOR WABC WBCM  
WBIG WBRC WBT WCAH WCAO  
WCAU WCCO WDAE WDBJ WDBO  
WDOD WDRC WDSU WEAN WFBL  
WFBM WFEA WGL WGST WHAS  
WHP WIBW WISN WJAS WKBH  
WKBW WLWB WMAL WNAC WNAX  
WNOX WOKO WORC WQAM WREC  
WSFA WSPD WTAQ WTAR WTOC

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

**C—Music That Satisfies, See Monday**  
**R—Paul Whiteman and Orchestra**  
KFI KFJR KGO KGW KHQ KOA  
KOMO KSD KSL KSTP WBEN  
WCAE WCSH WDAF WDAY WEAF  
WEBC WEEL WFBW WGY WHO  
WJAR WLIT WOC WQQ WRC  
WRVA WSAI WTAG WTAM WTMJ  
WTTM

**B—Phillips Lord, See Monday**

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

**C—Fray and Braggiotti**  
CFRB CKOK KDYL KFH KFPY  
KFRC KGB KLZ KMBC KOH KOL  
KRLD KSCJ KTRH KVI WAAB  
WABC WBCM WBRW WBT WCAH  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDOD WDRC WDSU WEAN

WFLB WFBM WFEA WGST WHAS  
WHEC WHK WHP WIBW WJAS  
WKBH WKBW WLWB WMAL  
WNAX WNOX WOKO WORC WOWO  
WQAM WREC WSFA WSPD WTOC

**B—Song Fellows, Male Quartet**  
CKGW KDKA KOIL KTBS KWCR  
WBAL WGAR WHAM WIOD WJZ  
WKY WMAQ WMC WSM

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

**C—Guy Lombardo and Orch., See Mon.**  
**R—RKO Mystery Drama**  
CFRC CKGW KFI KFSD KFJR  
KGHL KGIR KGO KGW KHQ KOA  
KOMO KPRC KSD KSL KSTP  
KTAR KTBS WAPI WBEN WCAE  
WCSH WDAF WDAY WEAF WEBC  
WEEL WENR WFAA WFBW WFLA  
WGY WHO WIBA WIOD WIS  
WJAR WJAX WJDX WKY WLIT  
WMC WOC WOW WRV WRVA  
WSAI WSB WSM WSMW WTAG  
WTAM WTRC WTMJ WWJ WWNC

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

**C—Myrt and Marge, See Monday**  
**B—Jane Froman and Orch., See Mon.**

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

**C—Columbia Symp. Orch., See Monday**  
**B—Amos 'n' Andy, See Monday**

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

**R—Maxwell House, See Monday**  
**B—Cesare Soderi's Orch., See Tuesday**

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

**C—Charles Carlile, See Monday**  
**ED-11:45 p.m., E-10:45, C-9:45, M-8:45**  
**C—Freddie Martin's Orch., See Mon.**

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

**C—Ozzie Nelson and Orchestra**  
CKOK KDYL KFAB KFJF KFJF  
KFJF KFRC KLRA KLZ KMBC  
KMOX KOH KOL KSCJ KTRH  
KTRH KVI KVOR WABC WBCM  
WBIG WBRC WBT WCAH WCAO  
WCAU WCCO WDAE WDBJ WDOD  
WDOD WDRC WDSU WEAN WFBM  
WGL WGST WHAS WHEC WHP  
WIBW WISN WKBW WLWB WMBD  
WNAC WNAX WNOX WODX WOKO  
WPG WQAM WREC WSPD WTAR  
WTOC WWVA

**B—Baron Lee and Orch., See Wed.**

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

**C—Duke Ellington and Orch., See Wed.**  
**B—Jones and Hare, See Monday**

**SATURDAY**

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

**R—Cheerio, See Monday**  
**ED-9:00 a.m., E-8:00, C-7:00, M-6:00**  
**C—Little Jack Little, See Monday**

**ED-1:30 p.m., E-12:00, C-11:30, M-10:30**

**B—National Farm and Home, See Mon.**  
**ED-5:15 p.m., E-4:15, C-3:15, M-2:15**  
**R—Whiteman's Rhythm Boys, See Mon.**

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

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

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

**R—Waldorf-Astoria Orch., See Monday**  
**B—Little German Band**  
KDKA KEX KFSD KFJR KGA  
KJR KOA KPO KTAR KTBS KWCR  
WBAL WFLA WGAR WIBA WIOD  
WJZ WKY WREN WSB WWNC

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

**C—Jack Miller and Orch., See Tuesday**  
**R—Opry House Tonight**  
KEX KFSD KGA KJR KOA KPO

KTBS WCAE WEAF WIBA WKY  
WMC WRC WSM WTAM WWNC

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

**C—Ozzie Nelson and Orchestra**  
CFRB CKOK KDYL KFAB KFBK  
KFH KFJF KFPY KFRC KGB KHJ  
KLRA KLZ KMBC KOH KOL KSCJ  
KTRH KTRH KVI KVOR WABC  
WCAO WBBM WBCM WBIG WBRC  
WBT WCAH WCAO WCCO WDAE  
WDBJ WDOD WDOD WDRC WDSU  
WEAN WEAN WFBM WFEA WGST  
WHAS WHEC WHP WIBW WIP  
WISN WJAS WKBH WKBW WLWB  
WNAX WNAX WNOX WORC WOWO  
WQAM WREC WSFA WSPD WTAQ  
WTAR WTOC WWVA

**R—Donald Novis, See Monday**

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

**B—Amos 'n' Andy, See Monday**  
**ED-7:15 p.m., E-6:15, C-5:15, M-4:15**  
**C—William Vincent Hall**  
CFRB CKOK KFBK KFH KFPY  
KFRC KGB KHJ KLZ KMBC KMOX  
KOH KOL KSCJ KTRH KTRH KVI  
KVOR WABC WCAO WBBM WBCM  
WBIG WBRC WBT WCAO WCAU  
WCCO WDAE WDBJ WDOD WDOD  
WDSU WEAN WGR WGST WHAS  
WHEC WHP WIBW WISN WJAS  
WKBH WNAC WNAX WNOX WOKO  
WORC WOWO WQAM WREC WSFA  
WSPD WTAQ WTAR WTOC WWVA

**B—Frankie Masters and Orchestra**  
KOIL KWCR WBAL WCKY WIOD  
WJZ

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

**V—Keenan and Phillips**  
CFRB CKOK KFAB KFBK KFH  
KFJF KFPY KFRC KGB KHJ KLZ  
KMBC KOL KRLD KSCJ KTRH  
KTRH KVI KVOR WABC WABC  
WBBM WBCM WBIG WBRC WBT  
WCAO WCAU WDAE WDBJ WDOD  
WDOD WDSU WEAN WFBL WFEA  
WGL WGR WGST WHAS WHP  
WIBW WISN WJAS WMAL WNAC  
WNAX WNOX WOKO WORC WQAM  
WREC WSFA WSPD WTAQ WTAR  
WTOC WWVA

**B—Cuckoo Program, Ray Knight**  
CKGW KEX KGA KJR KOA KTBS  
KWCR WBAL WFLA WGAR WHAM  
WIBA WJDX WJR WJZ WREN  
WRVA WSB WSM WWNC

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

**C—Do Re Mi, Female Trio**  
CFRB KFAB KFBK KFPY KFRC  
KGB KHJ KLZ KMBC KOH KOL  
KRLD KSCJ KTRH KVI KVOR  
WABC WACO WBBM WBCM WBIG  
WBRC WBT WCAH WCAO WCAU  
WCCO WDAE WDBJ WDOD WDOD  
WDSU WEAN WFBL WFBM WFEA  
WGR WGST WHAS WHEC WHP  
WIBW WISN WJAS WNAC WNAX  
WNOX WNOX WOKO WORC WQAM  
WREC WSFA WSPD WTAQ WTAR  
WTOC WWVA

**R—The Goldbergs, See Monday**

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

**C—Edwin C. Hill, See Monday**  
**R—Harlem Fantasy**  
KFI KGO KGW KHQ KOA KOMO  
KSD KSL KSTP KVOO WBEN  
WCAE WCSH WDAF WEAF WEEL  
WFBW WFLA WGY WHO WIOD WIS  
WJAR WKY WMAQ WQC WOW  
WRC WSAI WTAG WTAM WWJ  
WWNC

**B—The Play's the Thing**

**Saturday—Continued**

KDKA KOIL KWCR WCKY WGAR  
WHAM WJR WJZ WLS WREN

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

**C—Vaughn DeLeath**  
CFRB CKOK KDYL KFAB KFBK  
KFH KFJF KPFP KFRC KGB KHJ  
KLZ KMBC KOH KOH KSCJ KTRH  
KVI KFOR WABC WACO WBCM  
WBIG WBRC WCAO WCAU WCCO  
WDBJ WDOU WDSU WFEA WFLB  
WFBM WFGA WGL WGST WHAS  
WHK WHP WISN WJAS WKBB  
WLWB WMAL WNAC WNOX WOKO  
WORC WPG WQAM WREC WTAQ  
WTAR WTOC WVVVA

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

**C—U.S. Army Band**  
CFRB CKOK KDYL KFBK KFH  
KFJF KPFP KFRC KGB KHJ KLRA  
KLZ KMBC KMOX KOH KOL  
KRLD KSCJ KTRH KVI KFOR  
WABC WACO WBCM WBIG WBRC  
WBT WCAH WCAU WCAU WCCO  
WDAE WDBJ WDOU WDSU WFEA  
WFLB WFBM WFGA WGL WGST  
WHAS WHEC WHK WHP WISN  
WJAS WKBB WLWB WMAL  
WNAC WNOX WOKO WORC  
WPG WQAM WREC WSAF  
WTAQ WTAR WTOC WVVVA

**R—K-7, Drama**

KFI KFJR KGO KGW KOA KOMO  
KSD KSL KSTP KTBS KVOO KYW  
WBEN WCAE WCSH WDAF WDAY  
WEAF WEEB WEEI WFBF WFI  
WFLA WGY WHO WIBA WIOD  
WJAR WJAX WJY WOC WOV  
WRC WSAI WSM WTGQ WTAM  
WWJ WVNC

**B—V Dance with Countess d'Orsay**

CFRC CKGW KDKA KWK WBAL  
WBZ WBZA WGAR WHAM WJR  
WJZ WMAQ WREN

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

**C—Ann Leaf at Organ**  
CFRB CKOK KDYL KFAB KFBK  
KFH KFJF KFRC KGB KHJ KLRA  
KLZ KMBC KOH KOH KSCJ KTRH  
KVI KFOR WABC WACO WBCM  
WBIG WBRC WBT WCAH WCAU  
WCAU WCCO WDAE WDBJ WDOU  
WDSU WFEA WFLB WFBM  
WFGA WGL WGST WHAS WHEC  
WHK WHP WISN WJAS WKBB  
WLWB WMAL WNAC WNOX WOKO  
WORC WPG WQAM WREC WTAQ  
WTAR WTOC WVVVA

**R—National Light Opera**

CFRC CKGW WBEN WCAE WCSH  
WDAF WEAF WEEI WFBF WFI  
WFLA WGY WHO WIOD WJAR  
WKY WMAQ WMC WOC WRC  
WSAI WSB WSM WTGQ WTAM  
WWJ WVNC

**B—Gus Van, Pickens Sisters**

KDKA KOIL KPRC KWCR KWK  
WAPI WBAL WBAW WBZ WBZA  
WGAR WHAM WDXJ WJR WJZ  
WLS WMC WREN WSB WSM WSMB

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

**C—Isham Jones and Orchestra**  
CFRB CKOK KDYL KFBK KFH  
KFJF KPFP KFRC KGB KHJ KLRA  
KLZ KMBC KMOX KOH KOL  
KSCJ KTRH KVI KFOR WABC  
WBCM WBIG WBRC WBT WCAH  
WCAU WCAU WCCO WDAE WDBJ  
WDOU WDSU WFEA WFLB  
WFBM WFGA WGL WGST WHK

WHK WHP WIBW WISN WJAS  
WKBW WLWB WMAL WNAC WNOX  
WNOX WOKO WORC WPG WQAM  
WREC WSAF WSPD WTAQ WTAR  
WTOC WVVVA

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

**C—Music That Satisfies, See Monday**  
**R—Lucky Strike, See Tuesday**

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

**C—Public Affairs Institute**  
KDYL KFBK KFH KFJF KPFP  
KFRC KGB KHJ KLRA KLZ KMBC  
KMOX KOH KOH KSCJ KTRH  
KTSA KVI KFOR WAAB WABC  
WBBM WBCM WBIG WBRC WBT  
WCAO WCCO WDAE WDBJ WDOU  
WDSU WFEA WFLB WFBM WFGA  
WGL WGST WHAS WHEC WHP  
WIBW WJAS WKBB WKBW WLWB  
WMAL WNOX WOKO WORC WOV  
WPG WQAM WREC WSAF WSPD  
WTOC

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

**B—Twenty Fingers of Harmony**  
CFRC CKGW KDKA WCKY WGAR  
WHAM WJR WREN

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

**R—Ralph Kirbery, Dream Singer**  
CFRC CKGW WCAE WEAF WFBF  
WFI WFLA WGY WIOD WIS WRC  
WTAG WTAM WWJ WVNC

**B—Amos 'n' Andy, See Monday**

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

**B—Cesare Soderò's Orch., See Tuesday**

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

**C—Harold Stern and Orchestra**  
CFRB CKOK KDYL KFAB KFBK  
KFH KFJF KPFP KFRC KGB KHJ  
KLRA KLZ KMBC KMOX KOH  
KRLD KSCJ KTRH KTSA KVI  
KFOR WAAB WABC WBCM WBT  
WCAO WCO WDAE WDBJ WDOU  
WDSU WFEA WFLB WFBM WFGA  
WGL WGST WHAS WHEC  
WHP WIBW WIP WISN WKBW  
WLWB WMAL WMBD WNOX  
WNOX WODX WOKO WORC WQAM  
WREC WSPD WTAR WTOC WVVVA

**R—Paul Whiteman and Orchestra**

KSD WCAE WCKY WEAF WEEI  
WFI WGY WJAR WMAQ WRC  
WTAM WWJ

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

**C—Guy Lombardo and Orchestra**  
CKOK KDYL KFAB KFBK KFJF  
KPFP KFRC KGB KHJ KLRA KLZ  
KMBC KMOX KOH KOH KRLD  
KSCJ KTRH KTSA KVI KFOR  
WABC WBCM WBRC WBT WCAH  
WCAO WCAU WCCO WDAE WDBJ  
WDOU WDSU WFEA WFLB  
WFBM WGL WGST WHAS WHEC  
WHK WHP WIBW WISN WKBW  
WLWB WMAL WMBD WNAC WNOX  
WNOX WODX WOKO WQAM WREC  
WSPD WTAR WTOC WVVVA

**B—Jack Denny and Orchestra**

KWCR WBAL WHAM WJZ WRC  
WREN

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

**R—Buddy Rogers, See Monday**

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

**B—Charles Agnew Orch., See Tuesday**

WEAF WFLA WGY WIOD WLIT  
WMAQ WMC WPTF WRC WSM  
WTAM WWJ WVNC

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

**C—Voice of St. Louis**  
CFRB KDYL KFAB KFBK KFJF  
KFRC KLRA KMBC KMOX KOL  
KSCJ KTRH KFOR WAAB WABC  
WBRC WCAH WCCO WDAE WDBJ  
WDOU WDSU WDRS WDSU WFLB  
WFEA WGR WGST WHAS WHP  
WIBW WJAS WKBB WKBW WMAL  
WMBD WNOX WNOX WODX  
WOKO WORC WOVO WPG WQAM  
WREC WTAQ WTAR WTOC WVVVA

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

**C—Reis and Dunn**  
CFRB KDYL KFAB KFBK KFJF  
KFRC KHJ KLRA KMBC KMOX  
KOL KRLD KSCJ KTRH KFOR  
WAAB WABC WBBM WDAE WDBJ  
WDOU WDSU WFLB WFEA WGR  
WGST WHAS WHP WIBW WJAS  
WKBB WKBW WMAL WMBD  
WNOX WNOX WODX WOKO WORC  
WPG WQAM WREC WSAF WTAQ  
WTAR WVVVA

**R—Silver Flute**

WBEN WCKY WDAE WEAF WFI  
WGY WJO WJAR WOC WRC WTAG  
WTAM

**B—Summer Idylls, Catharine Field**

KEK KFJR KGA KJR KOA KPO  
KWCR KWK WBAL WENR WGAR  
WIOD WJZ WKY WLW WREN  
WSM

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

**C—Emery Deutsch and Orchestra**

CFRB CKOK KDYL KFAB KFBK  
KFJF KFRC KHJ KLRA KMBC  
KOL KRLD KSCJ KTRH KFOR  
WAAB WABC WBBM WBCM WBRC  
WCAH WCAU WCCO WDAE WDBJ  
WDOU WDSU WFEA WFLB WGR  
WGST WHAS WHEC WIBW WISN  
WJAS WKBB WKBW WLWB WMAL  
WMBD WODX WOKO WORC WOVO  
WPG WQAM WREC WSAF WTAQ  
WTAR WVVVA

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

**R—Garcia's Marimba Band**

KEK KFJR KGA KJR KOA KPO  
KSL KTAR KTBS WBEN WCAE  
WCKY WDAF WDAY WEAF WFI  
WFLA WGY WHO WIOD WJAR  
WMAQ WOC WTAM WWJ WVNC

**ED-1:15 p.m., E-12:15, C-11:15, M-10:15**

**C—Four Clubmen**

CFRB CKOK KDYL KFAB KFBK  
KFJF KFRC KHJ KOH KSCJ KFOR  
WAAB WABC WBBM WBCM WBT  
WCAO WCAU WCCO WDAE WDBJ  
WDOU WDSU WDRS WDSU WFLB  
WGR WGST WHAS WHEC WHK  
WHP WIBW WISN WJAS WKBB  
WKBW WLWB WMAL WMBD  
WODX WOKO WOVO WPG WQAM  
WREC WSPD WTAQ WTAR WVVVA

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

**R—Great Composers (Symphony)**

CKGW KFI KFJR KGO KGW KOA  
KOMO KSTP KTBS KTBS WBEN  
WCAE WDAF WDAY WEAF WEEI  
WFAA WFBF WFI WFLA WGY  
WJAR WLIT WMAQ WQAI WRC  
WSAI WSM WSMB WTAG WTAM  
WWJ WVNC

**B—Clyde Deerr's Saxophone Octet**

KDKA KFI KFSB KGO KHQ KOA

**SUNDAY**

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

**R—Major Bowes Family**

KEK KFJR KGA KJR KOA KPO  
KSL KSTP KTBS WAPI WCSH WDAF

Sunday—Continued

KOMO KWCR WBAL WDAY WGAR WHAM WJZ WLW

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

C—Thirty Minute Men
CFRB CKOK KDYL KFAB KFBK KFJF KMBC KMOX KOL KSCJ KTRH KVOR WABC WBBM WBCM WBRC WBT WCAH WCAO WCCO WDAE WDBJ WDBO WDDO WDRS WDSU WEAN WFBL WFBM WFEA WGR WGST WHAS WHEC WHK WHP WIBW WISN WJAS WKBH WKBN WLWB WMAL WNAC WNOX WODX WOKO WORC WOWO WQAM WSFA WTAQ WTAR WTOC WVVV

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

C—Ann Leaf at Organ

CFRB CKOK KDYL KFAB KFJF KFRC KHJ KMOX KOL KSCJ KTRH KVOR WABC WBBM WBCM WBRC WBT WCAH WCAO WCCO WDAE WDBJ WDBO WDDO WDRS WDSU WEAN WFBL WFEA WGL WGR WGST WHAS WHEC WHK WHP WIBW WISN WJAS WKBH WLWB WMAL WNAC WNOX WODX WOKO WORC WOWO WQAM WTAQ WTAR WTOC WVVV

R—Moonshine and Honeysuckle

KSD WCAE WCKY WCSH WDAF WFAE WEEI WFBR WGY WHO WJAR WLIT WMAQ WOC WOW WRC WTAG WTAM WWJ

B—Yeast Foamers

KDKA KFI KFSD KFJR KGHL KGO KGW KHQ KOIL KOMO KSTP KTAR KTBS KVOO KWCR KWK KYW WAPI WBAL WBZ WBZA WDAY WEBC WFAA WFLA WGAR WHAM WBA WIOD WIS WJAX WJDX WJR WJZ WLW WPTF WREN WRVA WSB WSM WSMB WTMJ WNNC

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

C—Symphonic Hour

CFRB CKOK KDYL KFAB KFH KFJF KFRC KHJ KLRA KMBC KMOX KOL KSCJ KTRH KVOR WABC WBCM WBIG WBRC WBT WCAH WCAO WCCO WDAE WDBJ WDBO WDDO WDRS WDSU WEAN WFBL WFBM WFEA WGL WGR WGST WHAS WHEC WHK WHP WIBW WISN WJAS WKBH WKBN WMAL WMBD WNAC WNOX WODX WOKO WORC WQAM WREC WTAQ WTAR WTOC WVVV

R—Gus Arnheim and Orchestra

KFI KFJR KGO KGW KHQ KOA KOMO KPRC KSD KSL KSTP KTBS KTBS KVOO KYW WBN WCAE WCSH WDAF WDAY WFAE WFCB WEEI WFAA WFBR WGY WHO WBA WJAR WKC WJL WQAM WOC WOW WRC WSAI WTAG WTAM WTMJ WWJ

B—Picadilly Circus

KDKA KOIL KWCR KWK WBAL WCKY WFLA WGAR WIOD WJDX WJR WJZ WREN WSM WNNC

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

R—National Sunday Forum

KFYR KFHL KGIR KGO KGW KHQ KOA KPRC KSD KSL KSTP KTAR KTBS KVOO KYW WBN WCAE WCSH WDAF WFAE WFCB WEEI WFAA WFBR WFLA WGY WJAX WIOD WIS WJAR WJAX WJDX WKY WOI WOW WPTF WRC

WRVA WSAI WSB WSM WSMB WTAG WTAM WWJ WNNC

B—48th Highlanders Military Band

KGW KDKA KOIL KWCR WBAL WBZ WLVA WGAR WHAM WJR WJZ WJZ WMAQ WREN

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

C—Cathedral Hour

CFRB CKOK KDYL KFAB KFBK KFH KFJF KFRC KHJ KLRA KMBC KMOX KOL KSCJ KTRH KVOR WABC WBCM WBIG WBRC WBT WCAH WCAO WCU WCCO WDAE WDBJ WDBO WDDO WDRS WDSU WEAN WFBL WFBM WFEA WGR WGST WHAS WHEC WHK WHP WIBW WISN WJAS WKBH WKBN WMAL WMBD WNAC WNOX WODX WOKO WORC WOWO WQAM WREC WSA WSPD WTAQ WTAR WTOC WVVV

R—Idolent Program

KFI KFSD KFJR KGHL KGIR KGO KGW KHQ KOA KOMO KPRC KSD KSL KSTP KTAR KTBS KTBS KVOO KYW WAPI WBN WCAE WCSH WDAF WDAY WFAE WFCB WEEI WFAA WFBR WFLA WGY WHO WBA WIOD WIS WJAR WJAX WJDX WKY WMC WOI WPTF WPTF WRC WRVA WSAI WSB WSM WSMB WTAG WTAM WTMJ WWJ WNNC

B—Temple of Song

KDKA KOIL KWCR WBAL WBZ WJAX WCKY WFLA WGAR WHAM WJR WJZ WMAQ WREN

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

B—Highlights of Bible

KDKA KFSD KFJR KGHL KGIR KGO KGW KHQ KOIL KOMO KPRC KSL KSTP KTAR KTBS KTBS KVOO KWCR KWK WAPI WBAL WBZ WBZA WCKY WDAY WBC WENR WFAA WFLA WGAR WBA WIOD WIS WJDX WJR WJZ WKY WMC WOI WPTF WREN WRVA WSB WSM WSMB WNNC

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

R—Pastels, String Quartet

KGW KSD WBN WCAE WCSH WDAF WFAE WEEI WENR WFBR WFI WGY WHO WJAR WOC WOW WRC WSAI WTAG WTAM

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

C—Irene Beasley, Round Towners

CFRB CKOK KDYL KFAB KFBK KFH KFJF KFRC KHJ KLRA KMBC KMOX KOL KRLD KSCJ KVOR WABC WBCM WBIG WBRC WBT WCAH WCAO WCU WCCO WDAE WDBJ WDBO WDDO WDRS WDSU WEAN WFBL WFBM WFEA WGR WGST WHAS WHEC WHK WHP WIBW WISN WJAS WKBH WKBN WLWB WMBD WNAC WNOX WODX WOKO WORC WOWO WQAM WREC WSA WSPD WTAQ WTAR WTOC WVVV

B—World of Religion

KFSD KFJR KGHL KGIR KGO KGW KHQ KOA KOIL KPRC KTAR KTBS KTBS KVOO KWCR KWK KYW WAPI WBAL WBAP WBZ WBA WCKY WDAY WFCB WFLA WGAR WHAM WBA WIOD WIS WJAX WJDX WJZ WMC WOI WPTF WREN WRVA WSB WSMB WNNC

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

R—Kremlin Art Quintet
CKGW WCAE WCSH WFAE WEEI WENR WFBR WFI WGY WJAR WRC WTAG

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

C—Poet's Gold, David Ross

CFRB CKOK KDYL KFBK KFH KFJF KFRC KHJ KLRA KMBC KMOX KOL KRLD KSCJ KVOR WABC WBCM WBIG WBRC WBT WCAO WCAO WCCO WDAE WDBJ WDBO WDDO WDRS WEAN WFBL WFBM WFEA WGR WGST WHAS WHEC WHP WIBW WISN WJAS WKBH WKBN WLWB WNAC WNOX WODX WOKO WORC WQAM WRC WSA WSPD WTAQ WTAR WTOC WVVV

R—Pop Concert, Walter Logan

KFSD KGO KGW KHQ KOA KSTP KTAR KTBS WAPI WBN WCAE WCSH WDAF WFAE WFCB WEEI WENR WFBR WFI WFLA WGY WHO WIOD WJAR WKY WMC WOC WOW WRC WRVA WSAI WSB WSM WTAG WTAM WWJ WNNC

B—Road to Romany

KOIL KWCR KWK KYW WGAR WHAM WJR WJZ WLW WREN

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

C—Little Jack Little

CFRB CKOK KDYL KFBK KFH KFJF KFRC KHJ KLRA KMBC KOL KRLD KSCJ KVOR WABC WBCM WBIG WBRC WBT WCAH WCAO WCAO WCCO WDAE WDBJ WDBO WDDO WDRS WEAN WFBL WFBM WFEA WGR WGST WHAS WHEC WHK WHP WIBW WISN WJAS WKBH WKBN WLWB WNAC WNOX WODX WOKO WQAM WREC WSA WSPD WTAQ WTAR WTOC WVVV

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

C—Ballad Hour

CFRB CKOK KDYL KFAB KFBK KFJF KFRC KHJ KLRA KMOX KOL KRLD KSCJ KVOR WABC WBCM WBIG WBRC WBT WCAH WCAO WCAO WCCO WDAE WDBJ WDDO WDRS WDSU WEAN WFBL WFBM WFEA WGL WGR WGST WHAS WHEC WHK WHP WIBW WISN WJAS WKBH WKBN WLWB WMAL WNAC WNOX WODX WOKO WORC WPG WQAM WREC WSA WSPD WTAQ WTAR WTOC WVVV

R—Catholic Hour

KEX KFSD KFJR KGA KGHL KGIR KJR KOA KPO KPRC KSTP KVOO WAPI WBA WBN WCAE WCSH WDAF WFAE WFCB WEEI WENR WFBR WFLA WGY WHO WBA WIOD WJAR WJAX WJDX WKY WLIT WMC WOI WOC WOW WRC WRVA WSAI WSM WSMB WTAG WTAM WWJ WNNC

B—Paul Whiteman and Orchestra

KGW KOIL KWCR KWK WBAL WBZ WBZA WCKY WGAR WHAM WJR WJZ WMAQ WREN

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

C—Roses and Drums

CKOK KMBC KMOX KRLD WAAB WABC WADC WBBM WCAO WDSU WFBM WGR WGST WHK WJAS WKRC WMAL

R—Sweetheart Days

KEX KFSD KGA KJR KPO KTAR

**Sunday—Continued**

WBEN WCAE WFAE WEEI WFBR  
WFLA WGY WIOD WIS WJAR  
WJAX WLIT WRVA WTAG WTAM

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

CKOK KDYL KFAB KFBK KFH  
KFJF KFRK KHJ KMBC KMOX  
KOL KRLD KSCJ KTRH KFOR  
WABC WBBM WBCM WBG WBCR  
WBT WCCO WDAE WDBJ WDBO  
WDOD WDRG WDSU WFBM WFLA  
WFBM WFEA WGL WGR  
WGST WHAS WHEC WHP WIBW  
WIP WISN WJAS WKBH WKBW  
WLBW WMAL WNAC WNAF WNOX  
WODX WOKO WRG WPG WQAM  
WREC WSCA WSPD WTAQ WTAR  
WTOC WWSA

**R—Donald Novis, Tenor**  
KFSD KFJR KGO KGW KHQ KOA  
KSL KSTP KTAR KTBS KVOO  
WBEN WBSH WDAF WFAE WIBC  
WEEI WFBM WFLA WGY WHO  
WIBA WIOD WJAR WJDX WKY  
WLIT WMAQ WOC WOV WSAI  
WSM WTAG WTAM WWJ WWNC

**B—Pickens Sisters**  
CKGW KOIL WBAW WCKY WHAM  
WJZ WMAQ WREN

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

**C—Chicago Knights**  
CKOK KDYL KFAB KFH KFJF  
KFRK KHJ KMBC KMOX KOL  
KRLD KSCJ KTRH KFOR WABC  
WBCM WBG WBCR WBT WCAH  
WCAU WCCO WDAE WDBJ WDBO  
WDOD WDRG WDSU WEAN WFBM  
WFBM WFEA WGL WGR WGST  
WHAS WHEC WHP WIBW WISN  
WJAS WKBH WKBW WLBW WMAL  
WNAC WNAF WNOX WODX WOKO  
WORC WQAM WREC WSPA WSPD  
WTAQ WTAR WTOC WWSA

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

**R—Orchestral Gems**  
KSD WBEN WCAE WDAF WFAE  
WFBM WGY WJAR WLS WOW  
WSAI WTAG WTIC WWJ

**B—Commodores, Male Quartet**  
CFRC KDKA KFI KFSD KFJR  
KGO KHQ KOA KOIL KSL KSTP  
KTAR KTBS KWCR KWK WAPI  
WBAL WFLA WGAR WHAM WIOD  
WJR WJZ WKY WLS WLW WREN  
WRVA WSB WSM WWNC

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

**C—Theo Karle, Tenor**  
CKOK KDYL KFAB KFH KFJF  
KFRK KHJ KMBC KMOX KOL  
KRLD KSCJ KTRH KFOR WABC  
WBCM WBG WBCR WBT WCAH  
WCAU WCCO WDAE WDBJ WDBO  
WDOD WDRG WDSU WFBM WFLA  
WFBM WFEA WGL WGR WGST  
WHAS WHEC WHK WHP WIBW  
WISN WJAS WKBH WLBW WMAL  
WNAC WNAF WNOX WODX WOKO  
WORC WQAM WREC WSPA WSPD  
WTAQ WTAR WTOC WWSA

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

**C—William Vincent Hall**  
CKOK KDYL KFAB KFH KFJF  
KFRK KHJ KMBC KMOX KOL  
KSCJ KTRH KFOR WABC WBCM  
WBG WBCR WBT WCAH WCAU  
WCCO WDAE WDBJ WDBO WDOD  
WDRG WDSU WEAN WFBM WFEA  
WGL WGR WGST WHAS WHEC  
WHP WIBW WISN WJAS WKBH

WKBW WLBW WMAL WNAC WNAF  
WODX WOKO WORC WQAM WREC  
WSPA WSPD WTAR WTOC WWSA

**R—Chase and Sanborn Hour**  
CFRC CKGW KFI KFSD KFJR  
KGO KGW KHQ KOA KOMO KPRC  
KSD KSL KSTP KTAR KTBS KVOO  
WAPI WBEN WCAE WCKY WCSH  
WDAF WDAY WFAE WIBC WFLA  
WFBM WFLA WGY WHO WIOD  
WIS WJAR WJAX WJDX WKY  
WLIT WLS WMC WOAI WOC WPTF  
WRC WRVA WSAI WSB WSM  
WSMB WTAG WTAM WTIC WTMJ  
WWJ WWNC

**B—McCravy Brothers**  
KDKA KOIL KTBS KVOO KWCR  
KWK WJAL WFLA WGAR WHAM  
WIS WJR WJZ WKY WMAQ WOAI  
WREN WWNC

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

**B—New York Concert Orchestra**  
KDKA KOIL KWCR WBAL WGAR  
WJR WJZ WLW WREN

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

**R—Our Government, David Lawrence**  
KPRC KSD KTBS KVOO WAPI  
WFAE WENR WFLA WFBM WFI  
WFLA WGY WHO WIOD WIS WJAR  
WJDX WKY WMC WOC WOW  
WPTF WRC WRVA WSAI WSB  
WSM WSMB WTAG WWSA WNC

**B—Enna Jettick Melodies**

CFRC CKGW KDKA KFI KFSD  
KFJR KGHG KGIR KGO KGW KHQ  
KOA KOIL KOMO KSTP KTAR  
KWCR KWK KYW WBAL WBZ  
WBZA WCKY WDSU WIBC WGAR  
WHAM WIBA WJAX WJR WJZ  
WREN WRVA WTMJ

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

**R—Album of Familiar Music**  
KFI KFSD KFJR KGO KGW KHQ  
KOA KOMO KPRC KSD KSL KSTP  
KTAR KTBS WAPI WBEN WCAE  
WCSH WDAY WFAE WIBC WENR  
WFLA WFBM WFI WFLA WGY  
WHO WIBA WIOD WJAR WJDX  
WKY WMC WOAI WOC WOW  
WRC WSAI WSB WSM WSMB  
WTAG WTAM WTMJ WWJ

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

**C—Pennzoil Parade**  
CKOK KFJF KLRA KMBC KMOX  
KTA WABC WADC WBCR WBT  
WCAO WCAU WCCO WDRG WEAN  
WFBM WGN WGR WGST WHEC  
WHK WJAS WKRC WLAC WLWB  
WMAL WNAC WOKO WSPD

**ED-9:45 p.m., E-8:45, C-7:45, M-6:45**

**R—Sheaffer Lifetime Review**  
CKGW KSD WBEN WCAE WCSH  
WDAF WFAE WEEI WENR WFBM  
WFI WGY WHO WJAR WOC WOW  
WRC WSAI WTAG WTAM WTIC  
WWJ

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

**C—Gem Highlights, Jack Denny**  
CKOK KLZ KMBC KMOX KRLD  
WAAB WABC WADC WBBM WBT  
WCAO WCAU WCCO WDRG WDSU  
WFBM WFBM WGST WHK WJAS  
WKBW WKRC WMAL WOKO WSPD

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

**R—L'Heure Exquise**  
CKGW KSD KSTP KTBS WBEN  
WCAE WCSH WDAF WFAE WEEI  
WFBM WFI WFLA WGY WHO

WJAR WKY WOC WRC WRVA  
WSAI WSMB WTAG WTAM WTIC  
WWJ WWNC

**B—Old Singing Master**  
KDKA KFI KGO KGW KHQ KOA  
KOL KOMO KSL KWB WLW WBZ  
WBZA WGAR WHAM WJR WJZ  
WLW WMAQ WREN

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

**R—Sunday at Seth Parker's**  
CFRC KECA KFSD KFJR KGHG  
KGRG KGO KGW KHQ KOA KOMO  
KPRC KSD KSL KSTP KTAR KTBS  
KYW WAPI WBEN WCAE WCSH  
WDAF WDAY WFAE WIBC WEEI  
WFLA WFBM WFI WFLA WGY  
WHO WIBA WIOD WIS WJAR WJAX  
WJDX WKY WMC WOAI WOC WOW  
WPTF WRC WRVA WSAI WSB  
WSM WTAM WTMJ WWJ

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

**C—The Gauchos**  
CFRB CKOK KDYL KFAB KFBK  
KFH KFJF KFRK KHJ KLRA KMBG  
KMOX KOL KRLD KSCJ KTRH  
KFOR WAAB WABC WBCM WBCR  
WBT WCAH WCCO WDAE WDBJ  
WDBO WDOD WDRG WDSU WEAN  
WFAN WFBM WFBM WGL WGR  
WHAS WHK WHP WIBW WIP WISN  
WJAS WKBW WLBW WMAL WMBD  
WNOX WOKO WPG WQAM WREC  
WSPA WSPD WTAR WTOC

**B—Malik Mystery Drama**

KOIL KWCR WBAL WCKY WHAM  
WJZ WMAQ WREN

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

**R—Beau Balladeer**  
KFI KGHG KGO KGW KHQ KSTP  
KTBS WCAE WFAE WFBM WFI  
WFLA WGY WHO WIOD WJAR  
WJDX WMAQ WOC WOW WRC  
WSAI WSM WSMB WTAM WWJ  
WWNC

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

**C—Ozzie Nelson and Orchestra**  
CFRB CKOK KLRA WABC WBCM  
WBCR WBT WCAU WCCO WDAE  
WDBJ WDBO WDOD WDRG WDSU  
WEAN WFBM WGL WGR WHEC  
WHP WISN WKBW WLBW WMAL  
WNAC WNOX WOKO WQAM WSPA  
WSPD WTAR WTOC

**C—Pennzoil Parade**

KDYL KERN KFBK KFPY KFRK  
KGB KHJ KLZ KMJ KOL KOL  
KVI KWG

**R—Mood Oriental**

KFI KFSD KFJR KGHG KGO KGW  
KHQ KOA KOMO KSTP KTAR  
KTBS WCAE WDAF WFAE WIBC  
WFBM WFI WGY WIBA WJAR  
WMAQ WOW WRC WSB WSM  
WTAM WWJ

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

**C—Gus Arnheim and Orchestra**  
CKOK KFAB KFBK KFH KFJF  
KLRA KSCJ KTRH WABC WBCM  
WBCR WBT WCAH WCAU WCCO  
WDAE WDBJ WDBO WDOD WDSU  
WEAN WFBM WGL WGR WHAS  
WHEC WHK WHP WIBW WISN  
WKBW WLBW WMAL WMBD  
WNAC WNAF WNOX WOKO WQAM  
WREC WSPA WSPD WTAR WTOC

**B—Wm. Stoess and Orchestra**

KGHG KGO KGW KOA KOIL KOMO  
KSTP KTBS KWCR WDAY WENR  
WFLA WGAR WHAM WIOD WJR  
WJZ WKY WLW WMC WREN  
WSB WWNC

# CLASSIFIED INDEX to CHAIN PROGRAMS

Time in Eastern Daylight Standard

## BANDS

48th Highlanders, 3:30 p.m., Sunday, B.  
Garcia's Marimba Band, 1:00 p.m., Sunday, R.  
Little German Band, 6:00 p.m., Saturday, B.  
U.S. Army Band, 8:30 p.m., Saturday, C.

## CHILDREN

Lady Next Door, 4:45 p.m., daily, ex. Sat. and Sun.; 4:30 p.m., Saturday, R.  
Little Orphan Annie, 5:45 p.m., daily, ex. Sunday, B.

## CONCERTS

Ballad Hour, 6:00 p.m., Sunday, C.  
Howard Barlow Symphony, 11:00 p.m., daily, ex. Saturday and Sunday, C.  
Cities Service, 8:00 p.m., Friday, R.  
Gauchos, 11:00 p.m., Sunday, C.  
Great Composers, 1:30 p.m., Sunday, R.  
Andre Kostelanetz, 8:30 p.m., Friday, C.  
Kremlin Art Quintet, 8:15 p.m., Sunday, R.  
L'Heure Exquise, 10:15 p.m., Sunday, R.  
Walter Logan, 5:30 p.m., Sunday, R.  
Mobiloil, 9:30 p.m., Wednesday, R.  
Mood Oriental, 11:30 p.m., Sunday, R.  
National Light Opera, 9:00 p.m., Saturday, R.  
New York Orchestra, 8:15 p.m., Sunday, B.  
Orchestral Gems, 7:30 p.m., Sunday, R.  
Pastels, String Quartet, 4:45 p.m., Sunday, R.  
Cesare Sodero, 11:15 p.m., daily, ex. Sun. and Mon., B.  
Summer Symphony, 11:15 p.m., Monday, B.  
Sweetheart Days, 6:30 p.m., Sunday, R.  
Symphonic Hour, 3:00 p.m., Sunday, C.  
Waldorf-Astoria, 6:00 p.m., daily, ex. Sunday, R.  
G. Washington, 9:30 p.m., Thursday, R.

## DANCE BANDS

Charles Agnew, 12:30 a.m., Tuesday and Saturday, B.  
Gus Arneheim, 3:00 p.m., Sun., R; 12 mid., Sun., C.  
Ben Bernie, 9 p.m., Tuesday; 12:30 a.m., Wednesday, R.  
Jack Denny, 11:30 p.m., Tuesday, R; 12 mid., Saturday, B; 10:00 p.m., Sunday, C.  
Clyde Doerr, 7:00 p.m., Thursday, R; 1:30 p.m., Sunday, B.  
Duke Ellington, 12:30 a.m., Wednesday, Friday, C.  
Tom Gerun, 12 mid., Thursday, R.  
Lloyd Huntley, 12:30 a.m., Sunday, B.  
Island Boat Club, 9:00 p.m., Wednesday, B.  
Isham Jones, 7:15 p.m., Mon. and Fri.; 10:30 p.m., Tues., Wed., Thurs.; 9:30 p.m., Sat., C.  
Baron Lee, 11:45 p.m., Monday, R; 12 mid., Wednesday and Friday, B.  
Guy Lombardo, 10:30 p.m., Mon., Fri.; 9:00 p.m., Wed.; 12:00 mid., Saturday, C.  
Lucky Strike, 10 p.m., Tues., Thurs. and Sat., R.  
Abe Lyman, 8:15 p.m., Tuesday and Thursday, C.  
Freddie Martin, 11:45 p.m., Mon., Tues., Fri., C.  
Frankie Masters, 7:15 p.m., Saturday, B.  
Clyde McCoy, 12:30 a.m., Monday, B.  
Merry Madcaps, 6:45 p.m., Friday, R.  
Jack Miller, 6:30 p.m., Tues., Thurs. and Sat., C.  
Ozzie Nelson, 11:30 p.m., Sun.; 11:45 p.m., Wed. and Thurs.; 12:00 mid., Fri.; 6:45 p.m., Sat., C.  
George Olsen, 9:30 p.m., Monday and Wednesday, B.  
Pacific Serenaders, 12:30 a.m., Thursday, B.  
Graham Prince, 6:15 p.m., Friday, B.  
Buddy Rogers, 12 mid., Mon., Wed. and Sat., R.  
Andy Sanela, 5:30 p.m., Monday and Saturday, R.  
Noble Sissle, 12:00 mid., Thursday, C.  
Walter Smith, 8:30 p.m., Tuesday, R.  
Harold Stern, 12:00 mid., Tues.; 11:30 p.m., Sat., C.  
William Stoess, 12:00 mid., Sunday, B.  
Rudy Vallee, 8:00 p.m., Thursday, R.  
Paul Whiteman, 11 p.m., Mon., Thurs.; 12:05 a.m., Tues.; 10:00 p.m., Fri.; 11:30 p.m., Sat., R; 6:00 p.m., Sun., B.

## DIALOG

Amos 'n' Andy, 7:00 and 11:00 p.m., daily, ex. Sunday, B.  
Big Time, 8:00 p.m., Wednesday, R.

## DIALOG—Continued

Burns and Allen, 9:00 p.m., Wednesday, C.  
Clara, Lu 'n' Em, 10:15 a.m. daily, ex. Sat. and Sun., B.  
Cuckoo, Ray Knight, 7:30 p.m., Saturday, B.  
Funnyboners, 6:45 p.m., Monday and Wednesday, C.  
Jones and Hare, 7:45 p.m. and 12:30 a.m., Mon., Wed. and Fri., B.  
Opry House, 6:30 p.m., Saturday, R.  
Ray Perkins, 7:30 p.m., Tuesday and Thursday, R.  
Reiss and Dunn, 12:30 p.m., Sun.; 6:15 p.m., Mon., C.  
Stebbins Boys, 7:30 p.m., daily, ex. Sat. and Sun. B.  
Col. Stoopnagle and Budd, 8:45 p.m., Mon. and Wed., C.  
Tasteyest Jesters, 7:15 p.m., Monday, B.  
Tish, 10:30 p.m., Monday, Tuesday and Wednesday, B.  
Ward Wilson, 7:15 p.m., Wed., Thurs. and Fri., B.

## DRAMA

Eno Crime Club, 9:30 p.m., Tues. and Wed., C.  
First Nighter, 9:00 p.m., Friday, B  
Friendship Town, 9:30 p.m., Tuesday, B.  
Goldbergs, 7:45 p.m., daily, ex. Sunday, R.  
K-7, 8:30 p.m., Saturday, R.  
Phillips Lord, 10:00 p.m., daily, ex. Sat. and Sun., B.  
Love Story Hour, 9:30 p.m., Thursday, C.  
Mallik Mystery, 11:00 p.m., Sunday, B.  
Moonshine and Honeysuckle, 2:30 p.m., Sunday, R.  
Myrt and Marge, 7:00 and 10:45 p.m., daily, ex. Sat. and Sun., C.  
Rin Tin Tin, 8:30 p.m., Thursday, B.  
RKO Mystery, 10:30 p.m., Friday, R.  
Roses and Drums, 6:30 p.m., Saturday, C.  
Sheer Romance, 6:30 p.m., Tuesday, B.  
Soconyland Sketches, 8:00 p.m., Monday, R.  
Thompkins Corner, 9:30 p.m., Thursday, B.

## PIANO AND ORGAN

Fray and Braggiotti, 10:15 p.m., Friday, C.  
Archer Gibson, 10:30 p.m., Wednesday, R.  
Harding Sisters, 6:30 p.m., Wed., R.; 10:45 p.m., Sat., B.  
Keenan and Phillips, 7:15 p.m., Tues.; 7:30 p.m., Sat., C.  
Ann Leaf, 2:30 p.m., Sunday; 9:00 p.m., Saturday, C.

## POPULAR PROGRAMS

A & P Gypsies, 9:00 p.m., Monday, R.  
Armour Program, 9:30 p.m., Friday, B.  
Jack Benny, 9:30 p.m., Monday and Wednesday, B.  
Major Bowes, 11:30 a.m., Sunday, R.  
Carnation Contented, 8:00 p.m., Monday, B.  
Chase and Sanborn, 8:00 p.m., Sunday, R.  
Clicquot Club, 9:00 p.m., Friday, R.  
Columbia Revue, 12:30 p.m., daily, ex. Sat. and Sun., C.  
Countess d'Orsay, 8:30 p.m., Saturday, B.  
Enna Jettick Melodies, 9:00 p.m., Sunday, B.  
Jay C. Flippen, 9:00 p.m., Tues., 9:45 p.m., Fri., C.  
Jack Frost Melody, 8:30 p.m., Wednesday, B.  
General Motors, 9:30 p.m., Monday, R.  
Gerardine Program, 8:30 p.m., Thursday, C.  
Goodyear Program, 9:00 p.m., Wednesday, R.  
Harlem Fantasy, 8:00 p.m., Saturday, R.  
Household Program, 9:00 p.m., Tuesday, B.  
Kodak Week-End, 9:00 p.m., Friday, C.  
Maxwell House, 7:30 and 11:15 p.m., Mon., Wed. and Fri., R.  
Musical Fast Freight, 10:15 p.m., Tues. and Thurs., C.  
Nestle's Program, 8:00 p.m., Friday, B.  
Pennzoil Parade, 9:30 and 11:30 p.m., Sunday, C.  
Piccadilly Circus, 3:00 p.m., Sunday, B.  
Pond's Program, 9:30 p.m., Friday, R.  
Road to Romany, 5:30 p.m., Sunday, B.  
School Room Frolics, 9:00 p.m., Thursday, R.  
Sheaffer Review, 9:45 p.m., Sunday, R.  
Silver Flute, 12:30 p.m., Sunday, R.  
Sinclair Wiener Minstrels, 9:00 p.m., Monday, B.  
Ed Wynn, 9:30 p.m., Tuesday, R.  
Yeast Foamers, 2:30 p.m., Sunday, B.

**QUARTETS**

Candle Lightn' Time, 8:30 p.m., Friday, B.  
 Commodores, 7:30 p.m., Sunday, B.  
 Corn Cob Pipe Club, 10 p.m., Wednesday, R.  
 Dandies of Yesterday, 6:30 p.m., Wednesday, B.  
 Four Clubmen, 1:15 p.m., Sunday, C.  
 Four Eton Boys, 7:00 p.m., Sun.; 9:45 p.m., Fri., C.  
 Melodeers, 7:15 p.m., Wednesday, C.  
 Mills Bros., 9:15 p.m., Monday and Thursday, C.  
 Regimentalists, 8:00 p.m., Thursday, B.  
 Song Fellows, 10:15 p.m., Friday, B.

**RELIGIOUS**

Cathedral Hour, 4:00 p.m., Sunday, C.  
 Catholic Hour, 6:00 p.m., Sunday, R.  
 Chicago Knights, 7:15 p.m., Sunday, C.  
 Highlights of Bible, 4:30 p.m., Sunday, B.  
 Mid-Week Hymn Sing, 7:00 p.m., Tuesday, R.  
 National Sunday Forum, 3:30 p.m., Sunday, R.  
 Old Songs of Church, 6:30 p.m., Thursday, B.  
 Seth Parker, 10:45 p.m., Sunday, R.  
 World of Religion, 5:00 p.m., Sunday, B.

**SINGERS**

Gene Austin, 7:45 p.m., Tuesday and Thursday, B.  
 Irene Beasley, 5:00 p.m., Sun.; 6:00 p.m., daily, ex. Sat. and Sun., C.  
 Beau Balladeer, 11:15 p.m., Sunday, R.  
 Connie Boswell, 7:45 p.m., Wednesday and Friday, C.  
 Boswell Sisters, 10:00 p.m., Mon.; 9:00 p.m., Thurs., C.  
 Charles Carlie, 11:30 p.m., Mon. Wed. and Fri., C.  
 Richard Crooks, Firestone, 8:30 and 11:30 p.m., Mon., R.  
 Vaughn DeLeath, 6:30 p.m., Mon. and Fri.; 8:15 p.m., Sat., C.  
 Do Re Mi, 7:45 p.m., Saturday, C.  
 Ruth Etting, 10:00 p.m., Wed.; and 9:00 p.m., Sat., C.  
 Catharine Field, 12:30 p.m., Sunday, B.  
 Jane Froman, 4:00 p.m., Sun., R.; 10:45 p.m., daily, ex. Sat and Sun., B.  
 Tito Guizar, 7:45 p.m., Mon.; 9:30 p.m., Fri., C.  
 William Vincent Hall, 8:00 p.m., Sun.; 6:30 p.m., Wed.; 7:15 p.m., Sat., C.

**SINGERS—Continued**

Theo Karle, 7:45 p.m., Sunday, C.  
 Ralph Kirbery, 11:00 p.m., Saturday, R.  
 Harriet Lee, 7:00 p.m., Monday, R.  
 Little Jack Little, 5:45 p.m., Sun.; 9:00 a.m., daily, ex. Sun.; 11:30 p.m., Tues. and Thurs., C.  
 Rosa Low, 8:45 p.m., Tuesday, B.  
 Madison Singers, 6:45 p.m., Friday, C.  
 McCravy Bros., 8:00 p.m., Sunday, B.  
 Frank Munn, 9:15 p.m., Sunday, R.  
 Donald Novis, 7:00 p.m., Sun.; 6:45 p.m., Mon., Wed. and Sat., R.  
 Old Singing Master, 10:15 p.m., Sunday, B.  
 Pickens Sisters, 7:00 p.m., Sun.; 9:00 p.m., Saturday, B.  
 Georgie Price, 7:45 p.m., Tuesday and Thursday, C.  
 Sanderson-Crumit, 8:00 p.m., Tuesday, R.  
 Singin' Sam, 8:15 p.m., Mon., Wed. and Fri., C.  
 Kate Smith, 8:30 p.m., Mon., Tues. and Wed., C.  
 Street Singer, 9:00 p.m., Tues.; 10:00 p.m., Fri., C.  
 Temple of Song, 4:00 p.m., Tuesday, B.  
 Three Keys, 10:45 p.m., Sun.; 10:30 p.m., Thurs., Fri. and Sat., B.  
 Gus Van, 9:00 p.m., Saturday, B.  
 Whispering Jack Smith, 10:15 p.m., Mon., Wed. and Thurs., B.  
 Whiteman's Rhythm Boys, 5:15 p.m., Mon., Thurs. and Sat., R.

**TALKS**

Adventures in Health, 10:15 p.m., Wednesday, C.  
 Cheerio, 8:30 p.m., daily, except Sunday, R.  
 William Hard, 6:45 p.m., Sunday, R.  
 Edwin C. Hill, 8:00 p.m., daily, ex. Sunday, C.  
 David Lawrence, 9:00 p.m., Sunday, R.  
 National Farm and Home, 1:30 p.m., daily, ex. Sun., B.  
 Poets Gold, 5:30 p.m., Sunday, C.  
 Public Affairs Institute, 10:15 p.m., Sat., C.  
 Nellie Revell, 11:00 p.m., Wednesday, R.  
 Sigmund Spaeth, 10:15 p.m., Tues.; 8:15 p.m., Thurs., B.  
 Taxpayers' League, 8:00 p.m., Wednesday, B.  
 Lowell Thomas, 6:45 p.m., daily, ex. Sat. and Sun., B.

**KEY TO SYMBOLS**

As Shown in the Index by Frequencies and Dial Numbers

Frequency is given in kilocycles; wavelength in meters. Night power is shown in watts in third column. Daytime power is shown in parenthesis in fourth column in kilowatts, thus (.25) indicating 250 watts. Some stations outside the United States use a "split frequency." Their exact frequency is shown in fourth column. R-C indicates Remoté Control. Where space permits, names of hotels or other buildings used in announcements are shown in parenthesis. These are not mail addresses.

**Second Column Symbols**

- |   |  |   |                                      |
|---|--|---|--------------------------------------|
| a | Verifies reception for return postage. | g | Sends Ekko stamp for postage.        |
| b | Verifies only occasionally.            | h | Sends own station stamp for 10c.     |
| c | Does not verify.                       | i | Sends own station stamp for 5c.      |
| d | Verification 25c; reply card 10c.      | j | Sends own station stamp for postage. |
| e | Sends Ekko stamp for 10c.              | k | Has no stamps.                       |
| f | Sends Ekko stamp for 5c.               | z | Failed to reply.                     |

**Fourth Column Symbols**

- |    |   |        |   |
|----|---|--------|---|
| A  | These stations are synchronized.        | Q      | Great Lakes network.                                |
| B  | National "Blue" Network.                | R      | National "Red" network.                             |
| C  | Columbia network.                       | S      | Sunday only.  |
| D  | Daytime only.                           | T      | Don Lee System.                                     |
| Dn | Daytime with occasional evening hours.  | U      | Dixie network.                                      |
| E  | Trans-Canada network.                   | V      | Maritime Broadcasting network.                      |
| F  | Canadian National Railways network.     | W      | Curtis-Indiana network.                             |
| G  | All Canadian networks.                  | X      | Has permit to increase power.                       |
| H  | Yankee network.                         | Y      | Has permit to change location.                      |
| J  | Orange and gold networks.               | Z      | Has permit to change frequency.                     |
| K  | Mexican networks.                       | a-b-c. | Small letters show stations using same transmitter. |
| L  | Canadian Pacific Ry. network (Dominion) | 1-2-3. | Figures denote stations sharing time.               |
| M  | Canadian Radio Corp. network.           | ----   | No information.                                     |
| N  | National "Red" and "Blue" networks.     |        |   |
| P  | Has construction permit only.           |        |   |

## INDEX BY FREQUENCIES AND DIAL NUMBERS

### NOTICE OF COPYRIGHT

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FOR KEY TO SYMBOLS SEE PAGE 45

### 540 kilocycles 555.6 meters

CKOK ae 500 CG Windsor, Ont.

Essex Broadcasters, Ltd.

### 550 kilocycles 545.1 meters

KFDY ae 500 (1) Brookings, S. D.  
 KFUD ae 500 2(1) St. Louis, Mo.  
 KFYR ah 1000 1N(2.5) Bismarck, No. Dakota  
 KOAC ak 1000 Corvallis, Ore.  
 KSD ak 500 2R St. Louis, Mo.  
 WDEV ae 500 D Waterbury, Vt.  
 WGR ae 1000 C Buffalo, N. Y.  
 WKRC ak 1000 C Cincinnati, Ohio

South Dakota State College  
 Evangelical Lutheran Church  
 Meyer Broadcasting Co.  
 Oregon State Agricultural College  
 Pulitzer Publishing Co.  
 Harry G. Whitehill  
 Buffalo Broadcasting Corp.  
 WKRC, Inc., Hotel Alms

### 560 kilocycles 535.4 meters

KFDM ak 500 (1) Beaumont, Texas  
 KLZ ae 1000 C Denver, Colo.  
 KTAB ak 1000 San Francisco, Calif.  
 WFI ae 500 1R Philadelphia, Pa.  
 WIBO ae 1000 (1.5)a Chicago, Ill.  
 WLIT z 500 1R Philadelphia, Pa.  
 WNOX ak 1000 C(2) Knoxville, Tenn.  
 WPCC ak 500 Sa Chicago, Ill.  
 WQAM ae 1000 C Miami, Fla.

Sabine Broadcasting Co., Inc.  
 Reynolds Radio Co., Inc.  
 Associated Broadcasters, Inc.  
 WFI Broadcasting Co.  
 Nelson Bros. Bond & Mtg. Co.  
 Lit Bros. Store  
 So. Carolina Broadcasting Co., Inc.  
 North Shore Congregational Church  
 Miami Broadcasting Co.

### 570 kilocycles 526.0 meters

KGKO z 250 (.5) Wichita Falls, Texas  
 KMTR z 500 C Hollywood, Calif.  
 KVI ae 500 C Tacoma, Wash.  
 TGW z 50 Guatamala  
 WEAO ae 750 1 Columbus, Ohio  
 WKBN ak 500 1C Youngstown, Ohio  
 WMCA ak 500 3 New York, N. Y.  
 WNAX ae 1000 C Yankton, S. D.  
 WNYC ak 500 3 New York, N. Y.  
 WSYR ak 250 R2a Syracuse, N. Y.  
 WWNC ae 1000 N Asheville, N. C.

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

Ohio State University  
 WKBN Broadcasting Corp.  
 Knickerbocker Broadcasting Co., Inc.  
 House of Gurney, Inc.  
 Dept. of Plant & Structures  
 Clive B. Meredith Estate (WMAC)  
 Citizens Broadcasting Co., Inc.

### 580 kilocycles 516.9 meters

CFCL agj 500 Sa Toronto, Ont.  
 CFCY ae 500 E Charlottetown, P. E. I.  
 CHMA z 250 4S Edmonton, Alta.  
 CKCL agj 500 a Toronto, Ont.  
 CKUA ak 500 4F Edmonton, Alta.  
 KMJ ak 500 CT Fresno, Calif.  
 KSAC ak 500 2(1) Manhattan, Kans.  
 WDBO ae 250 CU Orlando, Fla.  
 WIBW ae 1000 C2 Topeka, Kans.  
 WOBU ak 250 1(.5) Charleston, W. Va.  
 WSAZ ak 250 1(.5) Huntington, W. Va.  
 WTAG ae 250 R(.5) Worcester, Mass.

The Dominion Battery Co.  
 Island Radio Broadcasting Co., Ltd.  
 Christian & Missionary Alliance  
 The Dominion Battery Co.  
 University of Alberta  
 McClatchy Radio Stations (Fresno Bee)  
 State Agricultural College  
 Orlando Broadcasting Co., Inc.  
 Capper Publications  
 WOBU, Inc., Ruffner Hotel  
 WSAZ, Inc.  
 Worcester Telegram Pub. Co., Inc.

### 590 kilocycles 508.2 meters

CJGC ae 500 595GZ London, Ont.  
 KHQ ak 1000 N(2) Spokane, Wash.  
 WCAJ ae 500 1 Lincoln, Neb.  
 WEEI ak 1000 R Boston, Mass.  
 WKZO ae 1000 D Kalamazoo, Mich.  
 WOW aeh 1000 1R Omaha, Neb.

Free Press Printing Co., Ltd.  
 Louis Wasmer, Inc.  
 Nebraska Wesleyan University  
 Edison Electric Illuminating Co.  
 WKZO, Inc., Burdick Hotel  
 Woodmen of the World



INDEX BY FREQUENCIES AND DIAL NUMBERS

600 kilocycles 499.7 meters

|      |      |     |       |                    |
|------|------|-----|-------|--------------------|
| CNRO | ak   | 500 | F     | Ottawa, Ont.       |
| KFSD | ah   | 500 | N(1)  | San Diego, Calif.  |
| WCAC | ak   | 250 | 2     | Storrs, Conn.      |
| WCAO | ae   | 250 | C     | Baltimore, Md.     |
| WICC | ae   | 250 | 2H(5) | Bridgeport, Conn.  |
| WJED | ---- | 250 | PD    | Indianapolis, Ind. |
| WMT  | ak   | 500 | C     | Waterloo, Iowa     |
| WREC | z    | 500 | C(1)  | Memphis, Tenn.     |

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Canadian National Railways  
Airfan Radio Corp.  
Connecticut Agricultural College  
Monumental Radio Co.  
Bridgeport Bdctg. Station, Inc.  
31st Street Baptist Church  
Waterloo Broadcasting Co.  
WREC, Inc.

KCYS.  
**670**  
MTRS.  
**447.5**  
DIAL

610 kilocycles 491.5 meters

|      |    |      |       |                       |
|------|----|------|-------|-----------------------|
| KFRC | ae | 1000 | C     | San Francisco, Calif. |
| VPN  | z  | 500  | ----- | Nassau, Bahama        |
| WDAF | ae | 1000 | R     | Kansas City, Mo.      |
| WIP  | ak | 500  | C     | Philadelphia, Pa.     |
| WJAY | z  | 500  | D     | Cleveland, Ohio       |
| XETR | z  | 2500 | ----- | Mexico City, Mexico   |

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Don Lee, Inc.  
Development Board—  
Kansas City Star Co.  
WIP-WFAN Broadcasting Co.  
Cleveland Radio Broadcasting Corp.  
Cia. Difusora Mexicana S. A.

620 kilocycles 483.6 meters

|      |    |      |         |                      |
|------|----|------|---------|----------------------|
| KGW  | ae | 1000 | NJ      | Portland, Ore.       |
| KTAR | ae | 500  | N(1)    | Phoenix, Ariz.       |
| WFLA | ae | 1000 | Na(2.5) | Clearwater, Fla.     |
| WLBZ | z  | 500  | C       | Bangor, Maine        |
| WSUN | ae | 1000 | Na(2.5) | St. Petersburg, Fla. |
| WTMJ | ae | 1000 | N(2.5)  | Milwaukee, Wis.      |

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Oregonian Publishing Co.  
KTAR Broadcasting Co.  
Florida West Coast Bdctg. Co., Inc.  
Maine Broadcasting Co., Inc.  
Florida West Coast Bdctg. Co., Inc.  
Journal Company

630 kilocycles 475.9 meters

|      |     |      |       |                         |
|------|-----|------|-------|-------------------------|
| CFCT | ae  | 500  | G     | Victoria, B. C.         |
| CJGX | ae  | 500  | FL    | Yorkton, Sask.          |
| CKOC | ae  | 1000 | 635aG | Hamilton, Ont.          |
| KCTB | aej | 1000 | 635aL | St. Catharines, Ont.    |
| CMCJ | z   | 250  | ----- | Havana, Cuba            |
| CMQ  | z   | 250  | ----- | Havana, Cuba            |
| CNRA | ae  | 700  | F     | Moncton, N. B.          |
| HIX  | ah  | 1000 | ----- | Santo Domingo, D. R.    |
| KFRU | ak  | 500  | I     | Columbia, Mo.           |
| KGFX | z   | 200  | D     | Pierre, S. D.           |
| WGBF | ae  | 500  | W     | Evansville, Ind.        |
| WMLA | ae  | 250  | C(5)  | Washington, D. C.       |
| WOS  | z   | 500  | I     | Jefferson City, Mo.     |
| XETF | ak  | 500  | K     | Veracruz., Ver., Mexico |

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Victoria Broadcasting Assn.  
Winnipeg Grain Exchange  
Wentworth Radio Bdctg. Co., Ltd.  
Wentworth Radio Bdctg. Co., Ltd.  
Rafael Rodriguez  
Jose Fernandez  
Canadian National Railways  
The Dominican Government  
Stevens College  
Dana McNeil  
Evansville On the Air, Inc.  
M. A. Leese Radio Corp., Inc.  
Missouri State Marketing Bureau  
Manuel Angel Fernandez

640 kilocycles 468.5 meters

|      |    |       |       |                     |
|------|----|-------|-------|---------------------|
| CHRC | ak | 100   | 645aG | Quebec, Que.        |
| CKCI | ck | 100   | 645a  | Quebec, Que.        |
| CKCR | ak | 100   | 645G  | Waterloo, Ont.      |
| KFI  | ah | 50000 | N1    | Los Angeles, Calif. |
| WAIU | ae | 500   | I     | Columbus, Ohio      |
| WOI  | ae | 5000  | D     | Ames, Iowa          |

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CHRC, Ltd., Victoria Hotel  
Le Soleil, Ltd.  
Mitchell & Liddle  
Earle C. Anthony, Inc.  
American Insurance Union  
State College of Agriculture

650 kilocycles 461.3 meters

|      |     |       |       |                  |
|------|-----|-------|-------|------------------|
| KPCB | ae  | 100   | ----- | Seattle, Wash.   |
| WSM  | aej | 50000 | N     | Nashville, Tenn. |

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

660 kilocycles 454.3 meters

|      |    |       |       |                   |
|------|----|-------|-------|-------------------|
| CHWK | ak | 100   | 665   | Chilliwack, B. C. |
| CJRM | z  | 500   | 665   | Moose Jaw, Sask.  |
| CJRW | z  | 1000  | 665   | Fleming, Sask.    |
| CMAF | z  | 500   | ----- | Havana, Cuba      |
| CMCO | z  | 250   | ----- | Havana, Cuba      |
| RUS  | z  | 500   | 664   | Salvador          |
| WAAW | z  | 500   | D     | Omaha, Neb.       |
| WEAF | ak | 50000 | R     | New York City     |

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Chilliwack Broadcasting Co., Ltd.  
Jas. Richardson & Sons, Ltd.  
Jas. Richardson & Sons, Ltd.  
International Broadcasting Co.  
J. L. Stowers  
Republic of El Salvador  
Omaha Grain Exchange  
National Broadcasting Co., Inc.

670 kilocycles 447.5 meters

|      |    |      |   |               |
|------|----|------|---|---------------|
| WMAQ | ae | 5000 | N | Chicago, Ill. |
|------|----|------|---|---------------|

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WMAQ, Inc. (NBC Lessees)

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

680 kilocycles 440.9 meters

KFEQ ae 2500 D St. Joseph, Mo.  
 KPO ak 5000 N San Francisco, Calif.  
 WPTF ae 1000 N Dn Raleigh, N. C.  
 XFG z 2000 683.3 Mexico, Mexico

Scroggin & Co. Bank  
 National Broadcasting Co., Inc.  
 Durham Life Insurance Co.  
 Sria. de Guerra y Marina

690 kilocycles 434.5 meters

CFAC ak 500 1G Calgary, Alta.  
 CFRB ae 10000 CM Toronto, Ont.  
 CJCJ ak 500 1LE Calgary, Alta.  
 NAA z 1000 ----- Arlington, Va.  
 VAS z 2000 685 ----- Glace Bay, N. S.  
 XET ck 500 ----- Monterrey, Mexico  
 VCX z 100 ----- Halifax, N. S.

Calgary Herald, Ltd.  
 Rogers-Majestic Corp., Ltd.  
 Albertan Publishing Co., Ltd.  
 U. S. Navy  
 Canadian Marconi Co.  
 Cadena Radio Difusora Mexicana S. A.  
 Sambro Lightship

700 kilocycles 428.3 meters

WLW ae 50000 B Cincinnati, Ohio

The Crosley Radio Corporation

710 kilocycles 422.3 meters

KMPC z 500 Dn Beverly Hills, Calif.  
 WOR ak 5000 X Newark, N. J.  
 XEN agj 1000 711K Mexico City

R. S. MacMillan  
 Bamberger's Broadcasting Service, Inc.  
 Cervceria Modelo S. A.

720 kilocycles 416.4 meters

WGN ak 25000 C Chicago, Ill.

WGN, Inc., Drake Hotel

730 kilocycles 410.7 meters

CHLS ak 100 1b Vancouver, B. C.  
 CHYC z 5000 Sa Montreal, Que.  
 CKAK ak 5000 CaM Montreal, Que.  
 CKCD z 100 1b Vancouver, B. C.  
 CKFC ak 50 1 Vancouver, B. C.  
 CKMO z 100 1 Vancouver, B. C.  
 CKWX ak 100 1L Vancouver, B. C.  
 CMK aeh 5000 ----- Havana, Cuba  
 XEF-XER z 75000 735 Villa Acuna, Mexico

W. G. Hassell (Province Bldg.)  
 Northern Electric Co., Ltd.  
 La Presse Publishing Co., Ltd.  
 Vancouver Daily Province  
 United Church of Canada  
 Sprott-Shaw Radio Co.  
 Western Broadcasting Co., Ltd.  
 National Broadcasting Co. of Cuba  
 Villa Acuna Broadcasting Co., Inc.

740 kilocycles 405.2 meters

CJCA ae 500 745EL Edmonton, Alberta  
 KMMJ bk 1000 Dn Clay Center, Neb.  
 WSB aeh 5000 N Atlanta, Ga.  
 WHBB z 250 D Portsmouth, N. H.

Edmonton Journal, Ltd.  
 M. M. Johnson Co. (R / C Lincoln)  
 Atlanta Journal, Biltmore Hotel  
 Granite State Broadcasting Co.

750 kilocycles 399.8 meters

KGU aj 2500 NX Honolulu, Hawaii  
 VOWR ak 500 ----- St. John's, N. F.  
 WJR ak 10000 B Detroit, Mich.  
 XEQ aeh 5000 ----- Juarez, Chih., Mexico

Advertiser Publishing Co.  
 Wesley United Church  
 WJR, The Goodwill Station, Inc.  
 Radio Difusora National S. A.

760 kilocycles 394.5 meters

KXA ae 250 (.5) Seattle, Wash.  
 WEW ae 1000 D St. Louis, Mo.  
 WJZ ck 30000 B New York City

American Radio Tel. Co.  
 St. Louis University  
 National Broadcasting Co., Inc.

770 kilocycles 389.4 meters

KFAB ae 5000 1C Lincoln, Neb.  
 WBBM ae 25000 1C Chicago, Ill.

KFAB Broadcasting Co.  
 WBBM Bdctg. Corp. (Wrigley Bldg.)

780 kilocycles 384.4 meters

CKY z 5000 ----- Winnipeg, Man.  
 KELW aeh 500 2 Burbank, Calif.  
 KTM ae 500 2(1) Los Angeles, Calif.  
 WEAN ak 250 CH(.5) Providence, R. I.  
 WMC ak 500 N (1) Memphis, Tenn.  
 WPOR aeh 500 b Portsmouth, Va.  
 WTAR aeh 500 bC Norfolk, Va.  
 XEZ z 500 ----- Mexico, Mexico

Manitoba Telephone System  
 Magnolia Park, Ltd.  
 Pickwick Broadcasting Corp., Ltd.  
 Shepard Broadcasting Service, Inc.  
 Memphis Commercial Appeal, Inc.  
 WTAR Radio Corp. (Norfolk)  
 WTAR Radio Corp.  
 Joaquin Capilla

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790 kilocycles 379.5 meters

|      |    |       |       |                       |
|------|----|-------|-------|-----------------------|
| CMBS | z  | 150   | ----- | Havana, Cuba          |
| CMBT | z  | 150   | ----- | Havana, Cuba          |
| CMHC | z  | 250   | ----- | Tuinucu, Cuba         |
| KGO  | ak | 7500  | N     | San Francisco, Calif. |
| WGY  | ak | 50000 | R     | Schenectady, N. Y.    |

|                                 |
|---------------------------------|
| Enrique Artalejo                |
| Emilio Perera                   |
| Frank H. Jones                  |
| General Electric Co. (Opr. NBC) |
| General Electric Co.            |

800 kilocycles 374.8 meters

|      |    |       |    |                   |
|------|----|-------|----|-------------------|
| WBAP | ak | 10000 | IN | Fort Worth, Texas |
| WFAA | ak | 50000 | IN | Dallas, Texas     |

|                            |
|----------------------------|
| Carter Publications, Inc.  |
| Dallas News-Dallas Journal |

810 kilocycles 370.2 meters

|      |    |      |        |                      |
|------|----|------|--------|----------------------|
| CHNS | ae | 500  | 815aZG | Halifax, N. S.       |
| CNRH | z  | 500  | 815aZ  | Halifax, N. S.       |
| VOAS | ak | 75   | D      | St. John's, N. F.    |
| WCCO | ae | 5000 | C      | Minneapolis, Minn.   |
| WPCH | ak | 500  | D      | New York City        |
| XFC  | z  | 250  | -----  | Aguascalientes, Mex. |

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

820 kilocycles 365.6 meters

|      |    |       |       |                 |
|------|----|-------|-------|-----------------|
| CMGC | z  | 30    | ----- | Matanzas, Cuba  |
| WHAS | aj | 25000 | C     | Louisville, Ky. |

|                                |
|--------------------------------|
| Oscar S. Mechoso               |
| The Louisville Times Co., Inc. |

830 kilocycles 361.2 meters

|      |    |       |     |                   |
|------|----|-------|-----|-------------------|
| KOA  | ak | 12500 | NJ  | Denver, Colo.     |
| WEUU | ak | 1000  | D   | Reading, Pa.      |
| WHDH | z  | 1000  | DY  | Boston, Mass.     |
| WRUF | ae | 5000  | DnC | Gainesville, Fla. |

|                                  |
|----------------------------------|
| General Electric Co. (NBC Opr.)  |
| Berks Broadcasting Co.           |
| Matheson Radio Co., Inc.         |
| State of Florida (Univ. of Fla.) |

840 kilocycles 356.9 meters

|      |    |      |       |                 |
|------|----|------|-------|-----------------|
| CKGW | ae | 5000 | NEa   | Toronto, Ont.   |
| CKLC | ak | 1000 | G     | Red Deer, Alta. |
| CMC  | z  | 500  | ----- | Havana, Cuba    |
| CPRY | ae | 5000 | L     | Toronto, Ont.   |
| XEFD | z  | 300  | 845   | Tijuana, Mexico |

|  |
|--|
| Gooderham & Worts, Ltd.                |
| Alberta Pacific Grain Co., Ltd.        |
| Cuban Telephone Co.                    |
| Canadian Pacific Co., Royal York Hotel |
| Carlos de la Sierra                    |

850 kilocycles 352.7 meters

|      |    |       |      |                  |
|------|----|-------|------|------------------|
| CMJE | z  | 20    | 856  | Camaguey, Cuba   |
| KWKH | ae | 10000 | 1    | Shreveport, La.  |
| WWL  | ak | 5000  | 1DnX | New Orleans, La. |

|                                    |
|------------------------------------|
| Manuel Fernandez                   |
| Hello World Broadcasting Corp.     |
| WWL Development Co. (Loyola Univ.) |

860 kilocycles 348.6 meters

|      |    |       |     |                     |
|------|----|-------|-----|---------------------|
| WABC | ae | 50000 | aC  | New York City       |
| WBOQ | ae | 50000 | a   | New York City       |
| WHB  | ae | 500   | D   | Kansas City, Mo.    |
| XFX  | z  | 500   | 867 | Mexico City, Mexico |

|                                     |
|-------------------------------------|
| Atlantic Broadcasting Corp.         |
| Atlantic Broadcasting Corp. (tests) |
| WHB Broadcasting Co.                |
| Secretaria de Educacion Publica     |

870 kilocycles 344.6 meters

|      |    |       |     |                   |
|------|----|-------|-----|-------------------|
| WBCN | ak | 50000 | Na  | Chicago, Ill.     |
| WENR | ak | 50000 | Na  | Chicago, Ill.     |
| WLS  | ae | 50000 | Na  | Chicago, Ill.     |
| XFF  | z  | 500   | 875 | Chihuahua, Mexico |

|                                  |
|----------------------------------|
| Great Lakes Bdctg. Co., NBC Opr. |
| Great Lakes Bdctg. Co. NBC Opr.  |
| Agricultural Broadcasting Co.    |
| Gobierno del Estado de Chihuahua |

880 kilocycles 340.7 meters

|      |    |     |       |                 |
|------|----|-----|-------|-----------------|
| CHML | ae | 50  | 4G    | Hamilton, Ont.  |
| CJCB | ak | 100 | G     | Sydney, N. S.   |
| CKCV | ak | 100 | ----- | Quebec, Que.    |
| CKPC | ak | 100 | 4L    | Preston, Ont.   |
| KFKA | ak | 500 | 2(1)  | Greeley, Colo.  |
| KLX  | ae | 500 | ----- | Oakland, Calif. |
| KPOF | ae | 500 | 2     | Denver, Colo.   |
| WCOC | ae | 500 | (1)   | Meridian, Miss. |
| WGBI | ah | 250 | Q1    | Scranton, Pa.   |
| WQAN | ak | 250 | 1     | Scranton, Pa.   |
| WSUI | ae | 500 | ----- | Iowa City, Iowa |

|                                    |
|------------------------------------|
| Maple Leaf Radio Co., Ltd.         |
| Nathansan's Radio Headquarters     |
| Vandry, Inc.                       |
| Cyrus Dolph                        |
| Mid-Western Radio Corp.            |
| Tribune Publishing Co.             |
| Pillar of Fire                     |
| Mississippi Broadcasting Co., Inc. |
| Scranton Broadcasters, Inc.        |
| Scranton Times                     |
| State University of Iowa           |

KCYS.

880

MTRS.

340.7

DIAL

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890 kilocycles 336.9 meters

|      |    |      |       |                     |
|------|----|------|-------|---------------------|
| CFBO | z  | 500  | ----- | St. John, N. B.     |
| CKCO | z  | 100  | 3     | Ottawa, Ont.        |
| CKPR | ak | 50   | 3G    | Fort William, Ont.  |
| CMCF | ak | 250  | 1     | Havana, Cuba        |
| CMX  | ae | 3000 | 1     | Havana, Cuba        |
| KARK | ak | 250  | ----- | Little Rock, Ark.   |
| KFNK | ak | 500  | 2(1)  | Shenandoah, Iowa    |
| KSEI | ae | 250  | (.5)  | Pocatello, Idaho    |
| KUSD | ae | 500  | 2     | Vermillion, S. Dak. |
| VOGT | z  | 100  | ----- | Wabana, N. F.       |
| WGST | ae | 250  | C(.5) | Atlanta, Ga.        |
| WILL | ak | 250  | 2(.5) | Urbana, Ill.        |
| WJAR | ae | 250  | (.5)R | Providence, R. I.   |
| WMMN | ae | 250  | (.5)  | Fairmont, W. Va.    |

|                                     |
|-------------------------------------|
| C. A. Munro, Ltd.                   |
| Dr. G. M. Geldert                   |
| Dougall Motor Car Co., Ltd.         |
| Raoul Karman, Casa DelaPorte        |
| Casa "Lavin" Francisco A.Lavin,Adm. |
| Arkansas Radio & Equipment Co.      |
| Henry Field Company                 |
| Radio Service Corporation           |
| University of South Dakota          |
| The Gaiety Theatre                  |
| Southern Broadcasting Co.           |
| University of Illinois              |
| The Outlet Co.                      |
| Holt-Rowe Broadcasting Co.          |

900 kilocycles 333.1 meters

|      |    |      |       |                      |
|------|----|------|-------|----------------------|
| KGBU | z  | 500  | ----- | Ketchikan, Alaska    |
| KHJ  | ae | 1000 | C T   | Los Angeles, Calif.  |
| WBEN | ae | 1000 | R     | Buffalo, N. Y.       |
| WJAX | ae | 1000 | N     | Jacksonville, Fla.   |
| WKY  | ae | 1000 | N     | Oklahoma City, Okla. |
| WLBL | ae | 2000 | D     | Stevens Point, Wis.  |

|                                  |
|----------------------------------|
| Alaska Radio & Service Co.       |
| Don Lee, Inc.                    |
| WBEN, Inc., Buffalo Evening News |
| City of Jacksonville             |
| Oklahoma Publishing Co.          |
| Wis. Dept. Agriculture & Markets |

910 kilocycles 329.6 meters

|      |    |      |       |                      |
|------|----|------|-------|----------------------|
| CFLC | ae | 100  | 915   | Prescott, Ont.       |
| CFQC | z  | 500  | ----- | Saskatoon, Sask.     |
| TICR | z  | 50   | 911   | San Jose, Costa Rica |
| XEW  | z  | 5000 | ----- | Mexico City, Mexico  |

|                               |
|-------------------------------|
| Radio Association of Prescott |
| The Electric Shop, Ltd.       |
| Mexico Music Co.              |

920 kilocycles 325.9 meters

|      |    |      |        |                       |
|------|----|------|--------|-----------------------|
| CMCD | ae | 250  | 925    | Havana, Cuba          |
| CMCN | z  | 250  | 925    | Havana, Cuba          |
| HHK  | z  | 1000 | -----  | Port au Prince, Haiti |
| KFEL | ak | 500  | 1      | Denver, Colo.         |
| KFXF | z  | 500  | 1      | Denver, Colo.         |
| KOMO | aj | 1000 | N      | Seattle, Wash.        |
| KPRC | ae | 1000 | N(2.5) | Houston, Texas        |
| WAAF | ak | 500  | D      | Chicago, Ill.         |
| WBSO | ae | 500  | D      | Babson Park, Mass.    |
| WWJ  | ak | 1000 | R      | Detroit, Mich.        |

|                                     |
|-------------------------------------|
| Angel Bertermaty y Garcia           |
| Antonio Ginard                      |
| Republic of Haiti                   |
| Gene O'Fallon (Albany Hotel)        |
| Colorado Radio Corp.                |
| Fisher's Blend Station, Inc.        |
| Houston Printing Co. (Houston Post) |
| Drovers Journal Publishing Co.      |
| Broadcasting Service Org., Inc.     |
| The Detroit News                    |

930 kilocycles 322.4 meters

|      |    |     |        |                       |
|------|----|-----|--------|-----------------------|
| CFCH | aj | 100 | 3LM    | North Bay, Ont.       |
| CFRC | z  | 50  | 3(.25) | Kingston, Ont.        |
| CKX4 | ak | 500 | E      | Brandon, Manitoba     |
| CMJF | z  | 225 | -----  | Camaguey, Cuba        |
| KFWI | aj | 500 | 1      | San Francisco, Calif. |
| KGBZ | ak | 500 | 2(1)   | York, Neb.            |
| KMA  | ae | 500 | 2(1)   | Shenandoah, Iowa      |
| KROW | ak | 500 | 1(1)   | Oakland, Calif.       |
| WBRC | ak | 500 | C(1)   | Birmingham, Ala.      |
| WDBJ | ae | 250 | C(.5)  | Roanoke, Va.          |
| WIBG | ae | 25  | D      | Glenside, Penna.      |

|                                |
|--------------------------------|
| Northen Supplies, Ltd.         |
| Queen's University             |
| Manitoba Telephone System      |
| John L. Stowers                |
| Radio Entertainments, Ltd.     |
| Dr. Geo. R. Miller             |
| Earl E. May Seed & Nursery Co. |
| Educational Broadcasting Corp. |
| Birmingham Bdctg. Co., Inc.    |
| Times-World Corp.              |
| WIBG, Inc. (Keswick Bldg.)     |

940 kilocycles 319.0 meters

|      |    |      |        |                     |
|------|----|------|--------|---------------------|
| KOIN | zk | 1000 | CT     | Portland, Ore.      |
| WAAT | ae | 300  | D      | Jersey City, N. J.  |
| WCSH | ae | 1000 | R(2.5) | Portland, Maine     |
| WDAY | ae | 1000 | N      | Fargo, No. Dakota   |
| WFIW | ae | 1000 | C      | Hopkinsville, Ky.   |
| WHA  | ak | 1000 | D      | Madison, Wis.       |
| XEO  | z  | 5000 | -----  | Mexico City, Mexico |

|                                 |
|---------------------------------|
| KOIN, Inc. (New Heathman Hotel) |
| Bremer Broadcasting Corp.       |
| Congress Square Hotel Co.       |
| WDAY, Inc. (Black Bldg.)        |
| WFIW, Inc.                      |
| University of Wisconsin         |
| National Revolucionario Party   |

950 kilocycles 315.6 meters

|      |    |      |         |                     |
|------|----|------|---------|---------------------|
| CMHD | z  | 250  | -----   | Caibarien, Cuba     |
| KFWB | ak | 1000 | -----   | Los Angeles, Calif. |
| KGHL | ak | 1000 | NJ(2.5) | Billings, Mont.     |
| KMBC | ak | 1000 | C       | Kansas City, Mo.    |
| VONA | z  | 30   | -----   | St. John's, N. F.   |
| WRC  | z  | 500  | R       | Washington, D. C.   |

|                                     |
|-------------------------------------|
| Manual Alvarez                      |
| Warner Bros. Broadcasting Corp.     |
| Northwestern Auto Supply Co.        |
| Midland Bdctg. Co. (Pickwick Hotel) |
| Lane, Gillard & Avery               |
| National Broadcasting Co., Inc.     |

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## 960 kilocycles 312.3 meters

|      |     |       |      |                         |
|------|-----|-------|------|-------------------------|
| CHCK | ak  | 100   | V    | Charlottetown, P. E. I. |
| CHWC | ak  | 500   | 3FL  | Regina, Sask.           |
| CKCK | ak  | 500   | 3FL  | Regina, Sask.           |
| CKNC | ak  | 500   | M    | Toronto, Ont.           |
| CMBC | aeH | 500   | 965a | Havana, Cuba            |
| CMBD | z   | 150   | 965a | Havana, Cuba            |
| CMJL | z   | 50    |      | Camaguey, Cuba          |
| XED  | z   | 10000 | 965  | Reynosa, Mexico         |

|  |  |  |  |                                    |
|--|--|--|--|------------------------------------|
|  |  |  |  | J. A. Gesner & W. E. Burke         |
|  |  |  |  | R. H. Williams & Sons, Ltd.        |
|  |  |  |  | Leader Post, Ltd. (Leader Bldg.)   |
|  |  |  |  | Canadian National Carbon Co., Ltd. |
|  |  |  |  | Domingo Fernandez                  |
|  |  |  |  | Luis Perez Garcia                  |
|  |  |  |  | Enrique Artimes                    |
|  |  |  |  | International Broadcasting Co.     |

## 970 kilocycles 309.1 meters

|      |    |      |    |                |
|------|----|------|----|----------------|
| KJR  | ae | 5000 | N  | Seattle, Wash. |
| WCFL | ak | 1500 | RX | Chicago, Ill.  |

|  |  |  |  |                                     |
|--|--|--|--|-------------------------------------|
|  |  |  |  | Northwest Broadcasting System, Inc. |
|  |  |  |  | Chicago Federation of Labor         |

## 980 kilocycles 305.9 meters

|      |    |       |       |                  |
|------|----|-------|-------|------------------|
| CFCN | ak | 10000 | 985FL | Calgary, Alberta |
| KDKA | ak | 50000 | B     | Pittsburgh, Pa.  |

|  |  |  |  |                                 |
|--|--|--|--|---------------------------------|
|  |  |  |  | The Voice of the Prairies, Ltd. |
|  |  |  |  | Westinghouse Elec. & Mfg. Co.   |

## 990 kilocycles 302.8 meters

|       |    |       |     |                     |
|-------|----|-------|-----|---------------------|
| CMGF  | z  | 50    | 987 | Matanzas, Cuba      |
| WBZ   | ak | 25000 | BA  | Boston, Mass.       |
| WBZA  | ak | 1000  | BA  | Springfield, Mass.  |
| XEK   | z  | 101   |     | Mexico City, Mexico |
| ----- | z  | 500   | DP  | Tupelo, Miss.       |

|  |  |  |  |                               |
|--|--|--|--|-------------------------------|
|  |  |  |  | Bernabe R. de la Torre        |
|  |  |  |  | Westinghouse Elec. & Mfg. Co. |
|  |  |  |  | Westinghouse Elec. & Mfg. Co. |
|  |  |  |  | Arturo Martinez               |
|  |  |  |  | Britt A. Rogers, Jr.          |

KCYS.

1040

MTRS.

288.3

## 1000 kilocycles 299.8 meters

|      |    |      |       |                        |
|------|----|------|-------|------------------------|
| KFVD | z  | 250  | Dn    | Los Angeles, Calif.    |
| WHO  | z  | 5000 | RAX   | Des Moines, Iowa       |
| WOC  | ak | 5000 | RAX   | Davenport, Iowa        |
| WORK | aj | 1000 | D     | York, Pa.              |
| XEC  | z  | 50   |       | Toluca, Mexico         |
| XEE  | z  | 105  |       | Oaxaca, Oax., Mexico   |
| XEFE | z  | 100  |       | N. Laredo, Tams., Mex. |
| XEFI | z  | 100  |       | Chihuahua, Mexico      |
| XEFS | z  | 40   |       | Queretaro, Mexico      |
| XEJ  | ak | 100  | K     | Juarez, Mexico         |
| XEL  | ak | 25   |       | Saltillo, Mexico       |
| XETC | z  | 100  |       | Jalapa, Ver., Mexico   |
| XETG | z  | 100  |       | Torreon, Coah., Mex.   |
| XEU  | ak | 100  | 1007K | Veracruz, Mexico       |
| XEV  | z  | 100  |       | Puebla, Pue., Mex.     |
| XEY  | z  | 105  |       | Merida, Yuc.           |

|  |  |  |  |                                    |
|--|--|--|--|------------------------------------|
|  |  |  |  | Los Angeles Broadcasting Co.       |
|  |  |  |  | Central Broadcasting Co.           |
|  |  |  |  | Central Broadcasting Co.           |
|  |  |  |  | York Broadcasting Co.              |
|  |  |  |  | Jesus R. Benavides                 |
|  |  |  |  | Alfonso Zorilla B.                 |
|  |  |  |  | Rafael T. Carranza                 |
|  |  |  |  | Feliciano Lopez Islas              |
|  |  |  |  | Salvador Sandhez                   |
|  |  |  |  | Juan G. Buttner & Leo Allande      |
|  |  |  |  | Antonio Garza Castro y J. T. Perez |
|  |  |  |  | Juventino Sanchez                  |
|  |  |  |  | Feliciano Lopez Islas              |
|  |  |  |  | Baltasar Pazos Sosa                |
|  |  |  |  | Ciro Molina                        |
|  |  |  |  | Partido Socialista S. E.           |

DIAL

1040

MTRS.

288.3

## 1010 kilocycles 296.8 meters

|      |    |     |      |                        |
|------|----|-----|------|------------------------|
| CKIC | z  | 50  |      | Wolfeville, N. S.      |
| CMBZ | ak | 150 |      | Havana, Cuba           |
| KGGF | ak | 500 | 2    | So. Coffeyville, Okla. |
| KOW  | ae | 500 | T    | San Jose, Calif.       |
| WHN  | z  | 250 | 1    | New York City          |
| WIS  | ae | 500 | N(1) | Columbia, S. C.        |
| WNAD | ae | 500 | 2    | Norman, Okla.          |
| WPAP | z  | 250 | 1    | New York City          |
| WQAO | z  | 250 | 1    | New York City          |
| WRNY | z  | 250 | 1    | New York City          |

|  |  |  |  |                                       |
|--|--|--|--|---------------------------------------|
|  |  |  |  | Acadia University                     |
|  |  |  |  | Manuel & Guillermo Salas              |
|  |  |  |  | Powell & Platz                        |
|  |  |  |  | Pacific Agricultural Foundation, Ltd. |
|  |  |  |  | Marcus Loew Booking Agency            |
|  |  |  |  | South Carolina Bdctg. Co., Inc.       |
|  |  |  |  | University of Oklahoma                |
|  |  |  |  | Calvary Baptist Church                |
|  |  |  |  | Calvary Baptist Church                |
|  |  |  |  | Aviation Radio Station, Inc.          |

## 1020 kilocycles 293.9 meters

|      |    |       |   |                   |
|------|----|-------|---|-------------------|
| KYW  | ae | 10000 | N | Chicago, Ill.     |
| WRAX | ae | 250   | D | Philadelphia, Pa. |

|  |  |  |  |                                      |
|--|--|--|--|--------------------------------------|
|  |  |  |  | Westinghouse Elec. & Mfg. Co. (KFKX) |
|  |  |  |  | WRAX Broadcasting Co.                |

## 1030 kilocycles 291.1 meters

|      |    |      |       |                     |
|------|----|------|-------|---------------------|
| CFCF | ae | 500  | NG    | Montreal, Que.      |
| CMHI | ck | 200  | a     | Santa Clara, Cuba   |
| CMKC | z  | 150  | 1034a | Santiago de Cuba    |
| CNRV | ak | 500  |       | Vancouver, B. C.    |
| XEB  | ak | 1000 |       | Mexico City, Mexico |

|  |  |  |  |                            |
|--|--|--|--|----------------------------|
|  |  |  |  | Canadian Marconi Co.       |
|  |  |  |  | Laviz & Paz                |
|  |  |  |  | M. P. Martinez             |
|  |  |  |  | Canadian National Railways |
|  |  |  |  | El Buen Tono, S. A.        |

## 1040 kilocycles 288.3 meters

|      |    |       |    |                     |
|------|----|-------|----|---------------------|
| CMGH | z  | 150   |    | Matanzas, Cuba      |
| KRLD | ae | 10000 | 1C | Dallas, Texas       |
| KTHS | ae | 10000 | 1N | Hot Springs, Ark.   |
| WKAR | ae | 1000  | D  | East Lansing, Mich. |

|  |  |  |  |                                   |
|--|--|--|--|-----------------------------------|
|  |  |  |  | Alberto Alvarez                   |
|  |  |  |  | KRLD Radio Corp. (Adolphus Hotel) |
|  |  |  |  | Chamber of Commerce               |
|  |  |  |  | Michigan State College            |

CUT OUT ON DOTTED LINES

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1050 kilocycles 285.5 meters

|      |     |      |       |                   |
|------|-----|------|-------|-------------------|
| CMJG | z   | 50   | ----- | Camaguey, Cuba    |
| KFBI | ae  | 5000 | Dn    | Abilene, Kans.    |
| KNX  | ae  | 5000 | X     | Hollywood, Calif. |
| XEFC | z   | 10   | ----- | Merida, Yuc.      |
| XES  | adk | 500  | 1055K | Tampico, Mexico   |

|  |
|--|
| Jose Antonio Lefran<br>Farmers & Bankers Life Ins. Co.<br>Western Broadcast Co.<br>Hugo Molina Font<br>Wendell Cox |
|--|

1060 kilocycles 282.8 meters

|      |    |       |    |                 |
|------|----|-------|----|-----------------|
| KWJJ | z  | 500   | Dn | Portland, Ore.  |
| WBAL | ae | 10000 | 1B | Baltimore, Md.  |
| WJAG | ak | 1000  | Dn | Norfolk, Neb.   |
| WTIC | ak | 50000 | 1R | Hartford, Conn. |

|  |
|--|
| KWJJ Broadcast Co., Inc.<br>Consolidated Gas, Elec. L. & Pwr. Co.<br>Norfolk Daily News<br>Travelers' Bdctg. Service Corp. |
|--|

1070 kilocycles 280.2 meters

|      |    |       |       |                       |
|------|----|-------|-------|-----------------------|
| CMBG | z  | 225   | ----- | Havana, Cuba          |
| CMCB | af | 150   | ----- | Havana, Cuba          |
| KJBS | ae | 100   | D     | San Francisco, Calif. |
| WCZ  | z  | 50    | D     | Carthage, Ill.        |
| WDZ  | ak | 100   | D     | Tuscola, Ill.         |
| WTAM | ak | 50000 | R     | Cleveland, Ohio       |
| XEG  | z  | 250   | ----- | Mexico City, Mexico   |

|   |
|---|
| Francisco Garrigo<br>Metropolitan-Radio de Cuba<br>Julius Brunton & Sons Co.<br>Superior Bdctg. Service, Inc.<br>James L. Bush<br>National Broadcasting Co., Inc.<br>Miguel Yarza |
|---|

1080 kilocycles 277.6 meters

|      |    |       |     |                  |
|------|----|-------|-----|------------------|
| WBT  | ae | 25000 | CU  | Charlotte, N. C. |
| WCBD | ae | 5000  | 1Dn | Zion, Ill.       |
| WMBI | ck | 5000  | 1Dn | Chicago, Ill.    |

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|---|
| Station WBT, Inc.<br>Wilbur Glenn Voliva<br>Moody Bible Institute |
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1090 kilocycles 275.1 meters

|      |    |       |   |                |
|------|----|-------|---|----------------|
| KMOX | ak | 50000 | C | St. Louis, Mo. |
|------|----|-------|---|----------------|

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|--------------------------|
| Voice of St. Louis, Inc. |
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1100 kilocycles 272.6 meters

|      |    |      |    |                      |
|------|----|------|----|----------------------|
| KGDM | ak | 250  | D  | Stockton, Calif.     |
| WLWL | z  | 5000 | 1  | New York City        |
| WPG  | ae | 5000 | 1C | Atlantic City, N. J. |

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|---|
| E. F. Peffer<br>Missionary Society of St. Paul<br>Municipality of Atlantic City |
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1110 kilocycles 270.1 meters

|      |    |      |         |                       |
|------|----|------|---------|-----------------------|
| KSOO | ae | 1000 | Dn(2.5) | Sioux Falls, So. Dak. |
| WRVA | ae | 5000 | N       | Richmond, Va.         |

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| Sioux Falls Broadcast Assn., Inc.<br>Larus & Bros. Co., Inc. |
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1120 kilocycles 267.7 meters

|      |    |     |       |                        |
|------|----|-----|-------|------------------------|
| CFCA | ak | 500 | G     | Toronto, Ont.          |
| CFJC | ak | 100 | EL    | Kamloops, B. C.        |
| CHGS | ce | 100 | V     | Summerside, P. E. I.   |
| CJOC | ak | 100 | ----- | Lethbridge, Alta.      |
| KFIO | ae | 100 | D     | Spokane, Wash.         |
| KFSG | ak | 500 | 3     | Los Angeles, Calif.    |
| KRRD | ae | 500 | 3     | Los Angeles, Calif.    |
| KRSC | ak | 100 | D     | Seattle, Wash.         |
| KTRH | ak | 500 | 2C    | Houston, Texas         |
| WDEL | aj | 250 | (.5)  | Wilmington, Del.       |
| WHAD | ae | 250 | 1C    | Milwaukee, Wis.        |
| WISN | ak | 250 | 1C    | Milwaukee, Wis.        |
| WTAW | z  | 500 | 2     | College Station, Texas |

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|--|
| Toronto Daily Star<br>The Kamloops Sentinel<br>R. T. Holman, Ltd.<br>Harold R. Carson<br>Spokane Broadcasting Corp.<br>Echo Park Evangelistic Assn.<br>Dalton's, Inc. (Arcade Bldg.)<br>Radio Sales Corp. (Wash. Ath. Club)<br>KTRH Broadcasting Co. (Rice Hotel)<br>WDEL, Inc.<br>Marquette University<br>Evening Wisconsin Co.<br>Agricultural & Mech. College |
|--|

1130 kilocycles 265.3 meters

|      |    |       |      |                      |
|------|----|-------|------|----------------------|
| KSL  | ae | 5000  | C    | Salt Lake City, Utah |
| WJJD | ze | 20000 | Dn   | Chicago, Ill.        |
| WOV  | z  | 1000  | D    | New York City        |
| XEH  | ak | 1000  | 1132 | Monterrey, Mexico    |

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|--|
| Radio Service Corp. of Utah<br>WJJD, Inc. (Palmer House)<br>International Broadcasting Corp.<br>Tarnava & Cia. |
|--|

1140 kilocycles 263.0 meters

|      |    |      |       |                     |
|------|----|------|-------|---------------------|
| CMBW | z  | 150  | ----- | Havana, Cuba        |
| CMCQ | z  | 1000 | ----- | Havana, Cuba        |
| KVOO | ae | 5000 | 1N    | Tulsa, Okla.        |
| WAPI | aj | 5000 | 1N    | Birmingham, Ala.    |
| XETA | z  | 500  | ----- | Mexico City, Mexico |

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|--|
| Alvarez-Moris<br>Andres Martinez<br>Southwestern Sales Corp.<br>WAPI Broadcasting Corp.<br>Manuel Espinosa Tagle |
|--|

INDEX BY FREQUENCIES AND DIAL NUMBERS

1150 kilocycles 260.7 meters

|       |    |      |       |                      |
|-------|----|------|-------|----------------------|
| CMGI  | z  | 30   | ----- | Colon, Cuba          |
| CMHJ  | ae | 75   | ----- | Cienfuegos, Cuba     |
| CMJH  | ak | 50   | ----- | Ciego de Avila, Cuba |
| WHAM  | ae | 5000 | B     | Rochester, N. Y.     |
| XEA   | ak | 500  | K1155 | Guadalajara, Mexico  |
| 10-AT | z  | 25   | 1155  | Trail, B. C.         |

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Armando Lizama  
Victorino Lopez (Hotel Bristol)  
Luis Marauri Mendoza  
Stromberg-Carlson Tel. Mfg. Co.  
Radiofonografica de Guadalajara, S.A.  
Trail Amateur Radio Assn.

1160 kilocycles 258.5 meters

|      |    |       |    |                  |
|------|----|-------|----|------------------|
| WOWO | ae | 10000 | 1C | Fort Wayne, Ind. |
| WVVA | ae | 5000  | 1C | Wheeling, W. Va. |

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Main Auto Supply Co.  
West Virginia Broadcasting Corp.

1170 kilocycles 256.3 meters

|      |    |       |   |                   |
|------|----|-------|---|-------------------|
| WCAU | ae | 10000 | C | Philadelphia, Pa. |
|------|----|-------|---|-------------------|

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Universal Broadcasting Corp.

1180 kilocycles 254.1 meters

|      |    |       |       |                    |
|------|----|-------|-------|--------------------|
| CMW  | ae | 1500  | 1185  | Havana, Cuba       |
| KEX  | ak | 5000  | 2N    | Portland, Ore.     |
| KOB  | ae | 10000 | 2N    | Albuquerque, N. M. |
| WDGY | ak | 1000  | Dn    | Minneapolis, Minn. |
| WINS | ae | 500   | ----- | New York City      |
| WMAZ | ak | 500   | ----- | Macon, Ga.         |

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Troncoso y Gil  
National Broadcasting Co.  
N. M. Coll. of Agr. & Mechanical Arts  
George W. Young  
American Radio News Corp.  
Southeastern Broadcasting Co.

1190 kilocycles 252.0 meters

|      |    |       |   |                    |
|------|----|-------|---|--------------------|
| WOAI | ae | 50000 | N | San Antonio, Texas |
|------|----|-------|---|--------------------|

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|--|--|--|

Southern Equipment Co.

1200 kilocycles 249.9 meters

|       |    |     |        |                      |
|-------|----|-----|--------|----------------------|
| CKOV  | ak | 100 | -----  | Kelowna, B. C.       |
| CMGB  | z  | 30  | 1205   | Matanzas, Cuba       |
| KBTM  | ak | 100 | D      | Paragould, Ark.      |
| KERN  | z  | 100 | C      | Bakersfield, Calif.  |
| KEJB  | z  | 100 | (.25)  | Marshalltown, Iowa   |
| KEWF  | z  | 100 | 5      | St. Louis, Mo.       |
| KFXD  | ae | 100 | -----  | Nampa, Idaho         |
| KGDE  | ae | 100 | (.25)  | Fergus Falls, Minn.  |
| KGDY  | z  | 100 | -----  | Huron, S. D.         |
| KGEB  | ak | 100 | 9      | Yuma, Colo.          |
| KGEW  | ak | 100 | 9      | Ft. Morgan, Colo.    |
| KGFI  | ae | 100 | -----  | Los Angeles, Calif.  |
| KGHI  | z  | 100 | -----  | Little Rock, Ark.    |
| KGVO  | ak | 100 | -----  | Missoula, Mont.      |
| KMLB  | z  | 100 | D      | Monroe, La.          |
| KVOS  | z  | 100 | -----  | Bellingham, Wash.    |
| KWG   | ae | 100 | CT     | Stockton, Calif.     |
| WABI  | ak | 100 | -----  | Bangor, Maine        |
| WABZ  | z  | 100 | 1      | New Orleans, La.     |
| WBZ   | ak | 100 | 1      | Ponca City, Okla.    |
| WBHS  | z  | 100 | 4      | Huntsville, Ala.     |
| WCAT  | z  | 100 | -----  | Rapid City, S. D.    |
| WCAX  | z  | 100 | -----  | Burlington, Vt.      |
| WCLO  | ak | 100 | -----  | Janesville, Wis.     |
| WCOD  | z  | 100 | 3      | Harrisburg, Pa.      |
| WFAM  | z  | 100 | 8      | South Bend, Ind.     |
| WEFE  | ak | 100 | (.25)  | Cincinnati, Ohio     |
| WHBY  | ak | 100 | -----  | Green Bay, Wis.      |
| WIBX  | z  | 100 | (.3)   | Utica, N. Y.         |
| WIL   | ae | 100 | 5(.25) | St. Louis, Mo.       |
| WJBC  | ae | 100 | 6      | LaSalle, Ill.        |
| WJBL  | ae | 100 | 6      | Decatur, Ill.        |
| WJBW  | ak | 100 | 1      | New Orleans, La.     |
| WKJC  | ak | 100 | 3      | Lancaster, Pa.       |
| WLAP  | ck | 100 | (.25)  | Louisville, Ky.      |
| WNBO  | ae | 100 | -----  | Silverhaven, Pa.     |
| WNBW  | z  | 10  | -----  | Carbondale, Pa.      |
| WDRG  | ak | 100 | CH     | Worcester, Mass.     |
| WPHR  | ae | 100 | (.25)  | Petersburg, Va.      |
| WRBL  | z  | 100 | -----  | Columbus, Ga.        |
| WWAE  | z  | 100 | 8      | Hammond, Ind.        |
| 10-AB | z  | 25  | -----  | Moose Jaw, Sask.     |
| 10-AK | ak | 15  | -----  | Stratford, Ont.      |
| 10-BI | ak | 25  | -----  | Prince Albert, Sask. |
| 10-BP | ak | 25  | 1199   | Wingham, Ont.        |
| 10-BQ | ak | 15  | -----  | Brantford, Ont.      |
| 10-BU | z  | 15  | -----  | Canora, Sask.        |

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Okanagan Broadcasters, Ltd.  
Jose Anorga  
Beard's Temple of Music  
Bee Bakersfield Broadcasting Co.  
Marshall Electric Co., Inc.  
St. Louis Truth Center, Inc.  
Frank E. Hurt (R/C Boise)  
Jaren Drug Co.  
Voice of South Dakota  
Beehler Electrical Equipment Co.  
City of Fort Morgan  
Ben. S. McGlashan  
O. A. Cook  
Mosby's, Inc.  
Linery's, Inc.  
Broadcasting Station, Inc.  
KVOS, Inc.  
McClatchy Newspapers  
First Universalist Society  
Samuel D. Reeks  
C. L. Carrell (R/C various cities)  
The Hutchens Co.  
State School of Mines  
Burlington Daily News  
WCLO Radio Corp. (R/C Beloit)  
Keystone Broadcasting Corp.  
South Bend Tribune  
The Post Publishing Co., Opr.  
St. Norbert College (Beilin Bldg.)  
WIBX, Inc.  
Missouri Broadcasting Corp.  
Kaskaskia Broadcasting Co.  
Commodore Broadcasting, Inc.  
C. C. Carlson  
Lancaster Bdctg. Service, Inc.  
American Broadcasting Corp. of Ky.  
Spriggs Symplex (Washington, Pa.)  
Home Cut Glass & China Co.  
A. F. Kleindienst  
WLBG, Inc.  
WRBL Radio Station, Inc.  
Hammond-Calumet Bdctg. Corp.  
Moose Jaw Radio Assn.  
M. I. Higgins Elec. & Radio Co.  
Prince Albert Radio Club  
W. T. Cruickshank  
Tom Brown & Harold Brown  
Canora Radio Assn.,

KCYC.

1200

MTRS.

249.9

DIAL

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

1210 kilocycles 247.8 meters

|      |    |     |        |                        |                                       |
|------|----|-----|--------|------------------------|---------------------------------------|
| CFGO | ak | 250 | 8G     | Chatham, Ont.          | John Beardall (Wm. Pitt Hotel)        |
| CFNB | z  | 50  | -----  | Fredericton, N. B.     | James S. Neill & Sons, Ltd.           |
| CJOR | ak | 500 | E      | Vancouver, B. C.       | George C. Chandler                    |
| CKMC | z  | 100 | 8      | Cobalt, Ont.           | R. L. McAdam                          |
| KASA | ak | 100 | -----  | Elk City, Okla.        | E. M. Woody (Casa Grande Hotel)       |
| KDLR | ak | 100 | -----  | Devils Lake, N. Dak.   | KDLR, Inc.                            |
| KFJL | ak | 100 | -----  | Klamath Falls, Ore.    | KFJL Broadcasters, Inc.               |
| KFOR | ak | 100 | (.25)  | Lincoln, Neb.          | Howard A. Shuman                      |
| KFPW | ak | 100 | -----  | Fort Smith, Ark.       | Southwestern Hotel Co.                |
| KFVS | ae | 100 | 6      | Cape Girardeau, Mo.    | Oscar C. Hirsch                       |
| KFXM | ak | 100 | 9      | San Bernardino, Calif. | J. C. & E. W. Lee                     |
| KGCR | ah | 100 | -----  | Watertown, S. Dak.     | Greater Kampska Radio Corp.           |
| KGNO | ak | 100 | -----  | Dodge City, Kans.      | Dodge City Broadcasting Co.           |
| KGY  | ak | 100 | -----  | Olympia, Wash.         | KGY, Inc. (Capitol Park Bldg.)        |
| KPPC | ak | 50  | 9      | Pasadena, Calif.       | Pasadena Presbyterian Church          |
| KWEA | z  | 100 | -----  | Shreveport, La.        | Hello World Broadcasting Corp.        |
| WALR | ae | 100 | -----  | Zanesville, Ohio       | WALR Broadcasting Corp.               |
| WBAX | ae | 100 | 1      | Wilkes-Barre, Pa.      | John H. Stenger, Jr. (Morris Bldg.)   |
| WBBL | z  | 100 | 7S     | Richmond, Va.          | Grace Covenant Pres. Church,          |
| WBBS | ak | 100 | 2      | Springfield, Ill.      | Chas. H. Messter & Harold L. Dewing   |
| WCRW | ae | 100 | 4      | Chicago, Ill.          | Clinton R. White                      |
| WEBQ | ae | 100 | 6      | Harrisburg, Ill.       | First Trust & Savings Bank            |
| WEDC | z  | 100 | 4      | Chicago, Ill.          | Emil Denemark, Inc.                   |
| WFAS | ak | 100 | 3      | White Plains, N. Y.    | Westchester Broadcasting Corp.        |
| WGBB | z  | 100 | 3      | Freeport, N. Y.        | Harry H. Carman                       |
| WGCM | ae | 100 | 5      | Gulfport, Miss.        | Great Southern Land Co.               |
| WHBF | ae | 100 | -----  | Rock Island, Ill.      | Beardsley Specialty Co. (Harms Hotel) |
| WHBU | aj | 100 | -----  | Anderson, Ind.         | Anderson Broadcasting Corp.           |
| WHET | ak | 100 | -----  | Troy, Ala.             | Troy Broadcasting Co.                 |
| WIBU | z  | 100 | -----  | Poynette, Wis.         | Wm. C. Forrest                        |
| WJBI | ak | 100 | 3      | Red Bank, N. J.        | Monmouth Broadcasting Co., Inc.       |
| WJBU | ae | 100 | 1      | Lewisburg, Pa.         | Bucknell University                   |
| WJBY | z  | 100 | -----  | Gadsden, Ala.          | Gadsden Broadcasting Co., Inc.        |
| WJEJ | z  | 100 | PD     | Hagerstown, Md.        | A. V. Tidmore                         |
| WJW  | ae | 100 | -----  | Mansfield, Ohio        | John F. Weimer                        |
| WKFI | z  | 100 | 5(.25) | Greenville, Miss.      | J. Pat Scully                         |
| WMBG | aj | 100 | 7C     | Richmond, Va.          | Havens & Martin, Inc.                 |
| WMRJ | ak | 100 | 3      | Jamaica, N. Y.         | Peter J. Prinz                        |
| WOCL | ak | 50  | -----  | Jamestown, N. Y.       | A. E. Newton                          |
| WOMT | ae | 100 | -----  | Manitowoc, Wis.        | Francis Mangin Kadow                  |
| WPAW | z  | 100 | a      | Providence, R. I.      | Cherry & Webb Broadcasting Co.        |
| WPRO | z  | 100 | a      | Providence, R. I.      | Cherry & Webb Broadcasting Co.        |
| WQDX | z  | 100 | -----  | Thomasville, Ga.       | Stevens Luke                          |
| WBCS | z  | 100 | 4      | Chicago, Ill.          | World Battery Co., Inc.               |
| WSEN | ak | 100 | -----  | Columbus, Ohio         | Columbus Bdtg. Corp. (Seneca Hotel)   |
| WSIX | z  | 100 | -----  | Springfield, Tenn.     | 638 Tire & Vulcanizing Co.            |
| WSOC | ae | 100 | -----  | Gastonia, N. C.        | WSOC, Inc.                            |
| WTAX | z  | 100 | 2      | Springfield, Ill.      | WTAX, Inc.                            |
| XEX  | z  | 500 | -----  | Mexico City, Mexico    | Excelsior, Cia Editorial S. A.        |

1220 kilocycles 245.8 meters

|      |    |      |      |                 |                                   |
|------|----|------|------|-----------------|-----------------------------------|
| KFKU | ae | 500  | 1    | Lawrence, Kans. | University of Kansas              |
| KTW  | z  | 1000 | 2    | Seattle, Wash.  | First Presbyterian Church         |
| KWSC | ae | 1000 | 2(2) | Pullman, Wash.  | State College of Washington       |
| WCAD | ak | 500  | D    | Canton, N. Y.   | St. Lawrence University           |
| WCAE | ae | 1000 | R    | Pittsburgh, Pa. | WCAE, Inc. and Sun-Telegraph      |
| WDAE | ak | 1000 | C    | Tampa, Fla.     | Tampa Daily Times (Tampa Terrace) |
| WDRN | ak | 1000 | 1B   | Lawrence, Kans. | Jenny Wren Co.                    |

1230 kilocycles 243.8 meters

|      |    |      |       |                       |                                    |
|------|----|------|-------|-----------------------|------------------------------------|
| CMBY | z  | 350  | 1235  | Havana, Cuba          | Callejas-Estefani                  |
| CMCA | z  | 150  | 1235  | Havana, Cuba          | Manuel Cruz                        |
| KFQD | aj | 250  | ----- | Anchorage, Alaska     | Anchorage Radio Club, Inc.         |
| KGGM | ak | 250  | (.5)  | Albuquerque, N. M.    | New Mexico Broadcasting Co.        |
| KYA  | ae | 1000 | N     | San Francisco, Calif. | Pacific Broadcasting Co.           |
| WFBM | ae | 1000 | 1C    | Indianapolis, Ind.    | Indianapolis Power & Light Co.     |
| WNAC | ae | 1000 | CH    | Boston, Mass.         | Shepard Broadcasting Service, Inc. |
| WPSC | ah | 500  | D     | State College, Pa.    | Pennsylvania State College         |
| WSBT | z  | 500  | 1C    | South Bend, Ind.      | South Bend Tribune                 |
| XETQ | z  | 100  | ----- | Mexico, Mexico        | Carlos G. Caballero                |

1240 kilocycles 241.8 meters

|      |    |     |      |                     |                    |
|------|----|-----|------|---------------------|--------------------|
| CMAB | z  | 20  | 1249 | Pinar del Rio, Cuba | Francisco Martinez |
| KGCU | ak | 250 | 3    | Mandan, N. Dak.     | Mandan Radio Assn. |
| KLPM | ak | 250 | 3    | Minot, N. Dak.      | John B. Cooley     |



## INDEX BY FREQUENCIES AND DIAL NUMBERS

|      |    |      |       |                   |                                   |
|------|----|------|-------|-------------------|-----------------------------------|
| KTAT | z  | 1000 | 1     | Fort Worth, Texas | Texas Air Transport               |
| KTFI | ak | 500  | ----- | Twin Falls, Idaho | Radio Broadcasting Corp. of Idaho |
| WACO | ak | 1000 | 1C    | Waco, Texas       | Southwest Broadcasting Co.        |
| WKAQ | z  | 1000 | ----- | San Juan, P. R.   | Radio Corp. of Porto Rico         |
| WXYZ | z  | 1000 | ----- | Detroit, Mich.    | Kunsky-Trendle Broadcasting Corp. |

### 1250 kilocycles 239.9 meters

|      |    |      |        |                     |                              |
|------|----|------|--------|---------------------|------------------------------|
| KFMX | aj | 1000 | 2      | Northfield, Minn.   | Carleton College             |
| KFOX | ae | 1000 | CT     | Long Beach, Calif.  | Nichols & Warinner, Inc.     |
| WAAM | ae | 1000 | 1(2.5) | Newark, N. J.       | WAAM, Inc.                   |
| WCAL | ae | 1000 | 2      | Northfield, Minn.   | St. Olaf College             |
| WDSU | ak | 1000 | C      | New Orleans, La.    | Jos. H. Uhalt                |
| WGCP | ak | 250  | 1      | Newark, N. J.       | May Radio Broadcasting Co.   |
| WLB  | ak | 1000 | 2      | Minneapolis, Minn.  | University of Minnesota      |
| WODA | z  | 1000 | 1      | Paterson, N. J.     | Richard E. O'Dea             |
| WRHM | ae | 1000 | 2      | Minneapolis, Minn.  | Minnesota Broadcasting Corp. |
| XEFA | z  | 250  | -----  | Mexico City, Mexico | Manuel F. Murguia            |

### 1260 kilocycles 238.0 meters

|      |    |      |       |                      |  |
|------|----|------|-------|----------------------|--|
| KOIL | ak | 1000 | B     | Council Bluffs, Iowa | Mona Motor Oil Co.                     |
| KRGV | ae | 500  | 1     | Harlingen, Texas     | KRGV, Inc. (Rio Grande Na. Life Bldg.) |
| KVOA | z  | 500  | D     | Tucson, Arizona      | Robert M. Riculfi                      |
| KWWG | z  | 500  | 1     | Brownsville, Texas   | Frank P. Jackson                       |
| WHBC | ak | 10   | ----- | Canton, Ohio         | Edward P. Graham                       |
| WLBW | ae | 500  | C(1)Y | Oil City, Pa.        | Radio-Wire Program Corp. of Amer.      |
| WTOC | ae | 500  | CU    | Savannah, Ga.        | Savannah Broadcasting Co., Inc.        |

### 1270 kilocycles 236.1 meters

|      |    |      |       |                        |                                   |
|------|----|------|-------|------------------------|-----------------------------------|
| CMCU | z  | 150  | ----- | Havana, Cuba           | Jorge Garcia Serra                |
| CMCW | z  | 150  | ----- | Havana, Cuba           | Jose Lorenzo                      |
| KGCA | ak | 100  | D2    | Decorah, Iowa          | Chas. W. Greenley                 |
| KOL  | ae | 1000 | CT    | Seattle, Wash.         | Seattle Broadcasting Co.          |
| KVOR | ae | 1000 | C     | Colorado Springs, Col. | Reynolds Radio Co., Inc.          |
| KWLC | ak | 100  | D2    | Decorah, Iowa          | Luther College                    |
| WASH | ak | 500  | a     | Grand Rapids, Mich.    | Kunsky-Trendle Broadcasting Corp. |
| WEAT | ae | 1000 | D     | Ithaca, N. Y.          | Cornell University                |
| WFBR | ae | 500  | R     | Baltimore, Md.         | Baltimore Radio Show, Inc.        |
| WJDX | ak | 1000 | N     | Jackson, Miss.         | Lamar Life Insurance Co.          |
| WOOD | ak | 500  | a     | Grand Rapids, Mich.    | Kunsky-Trendle Broadcasting Corp. |

### 1280 kilocycles 234.2 meters

|      |    |      |        |                    |                                  |       |
|------|----|------|--------|--------------------|----------------------------------|-------|
| KFBB | ae | 1000 | (2.5)  | Great Falls, Mont. | Buttrely Broadcast, Inc.         | KCYS. |
| WCAM | ae | 500  | 1      | Camden, N. J.      | City of Camden (City Hall Tower) | 1300  |
| WCAP | ae | 500  | 1C     | Asbury Park, N. J. | Radio Industries Broadcast Co.   |       |
| WDOD | ae | 1000 | C(2.5) | Chattanooga, Tenn. | WDOD Bdctg. Corp. (Hotel Patten) | MTRS. |
| WIBA | ae | 500  | N(1)   | Madison, Wis.      | Badger Broadcasting Co., Inc.    | 230.6 |
| WOAX | ae | 500  | 1      | Trenton, N. J.     | Trenton Broadcasting Co.         |       |
| WRR  | ae | 500  | C      | Dallas, Texas      | City of Dallas (Hilton Hotel)    | DIAL  |

### 1290 kilocycles 232.4 meters

|      |    |      |         |                      |                                       |
|------|----|------|---------|----------------------|---------------------------------------|
| KDYL | ak | 1000 | C       | Salt Lake City, Utah | Intermountain Broadcasting Corp.      |
| KFUL | ak | 500  | 1       | Galveston, Texas     | News Publishing Co. (Buccaneer Hotel) |
| KLCN | z  | 50   | D       | Blytheville, Ark.    | C. L. Lintzenich                      |
| KTSA | ae | 1000 | 1C(2.5) | San Antonio, Texas   | Lone Star Broadcast Co. (Plaza Hotel) |
| WEBC | ae | 1000 | N(2.5)  | Superior, Wis.       | Head of the Lakes Broadcasting Co.    |
| WJAS | ak | 1000 | C(2.5)  | Pittsburgh, Pa.      | Pittsburgh Radio Supply House         |
| WNBZ | z  | 50   | D       | Saranac Lake, N. Y.  | Smith & Mace                          |

### 1300 kilocycles 230.6 meters

|      |    |      |       |                     |                                   |
|------|----|------|-------|---------------------|-----------------------------------|
| CMKJ | z  | 20   | ----- | Guantanamo, Cuba    | Luis Morlote                      |
| KFAC | z  | 1000 | ----- | Los Angeles, Calif. | Los Angeles Broadcasting Co.      |
| KFH  | ae | 1000 | C     | Wichita, Kans.      | Wichita Eagle—Hotel Lassen        |
| KFJR | ag | 500  | 3     | Portland, Ore.      | Ashley C. Dixon—KFJR, Inc.        |
| KTBR | z  | 500  | 3     | Portland, Ore.      | M. E. Brown                       |
| WBRR | ae | 1000 | 1     | Brooklyn, N. Y.     | Peoples Pulpit Assn.              |
| WEVD | ae | 500  | 1     | New York City       | Debs Memorial Radio Fund, Inc.    |
| WFB  | z  | 1000 | 1     | New York City       | Defenders of Truth Society, Inc.  |
| WHAZ | ae | 500  | 1     | Troy, N. Y.         | Rensselaer Polytechnic Institute  |
| WIOD | z  | 1000 | N     | Miami, Fla.         | Isle of Dreams Broadcasting Corp. |
| WOQ  | ae | 1000 | ----- | Kansas City, Mo.    | Unity School of Christianity      |
| XEM  | z  | 250  | ----- | Tampico, Tams, Mex. | Maria T. de Gutierrez             |

INDEX BY FREQUENCIES AND DIAL NUMBERS

1310 kilocycles 228.9 meters

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|      |    |     |        |
|------|----|-----|--------|
| KCRJ | ak | 100 | D      |
| KFBK | z  | 100 | C      |
| KFGQ | z  | 100 | 7      |
| KFPL | ck | 100 | -----  |
| KFFM | ae | 15  | -----  |
| KFXJ | ak | 100 | -----  |
| KFXR | z  | 100 | (.25)  |
| KFYO | z  | 100 | (.25)Z |
| KGBX | ae | 100 | Y      |
| KGCX | ak | 100 | (.25)  |
| KGEZ | aj | 100 | -----  |
| KGFW | ah | 100 | -----  |
| KIT  | ak | 100 | -----  |
| KMED | ak | 100 | -----  |
| KRMD | ak | 100 | -----  |
| KTLC | ae | 100 | -----  |
| KTSM | z  | 100 | a      |
| KXRO | ak | 100 | -----  |
| WBEO | z  | 100 | -----  |
| WBOW | ak | 100 | -----  |
| WBRE | z  | 100 | -----  |
| WCLS | ae | 100 | b      |
| WDAH | z  | 100 | a      |
| WEBR | ae | 100 | Q(.25) |
| WEXL | ak | 50  | -----  |
| WFBG | ae | 100 | 3      |
| WFDG | ae | 100 | -----  |
| WGAL | ae | 100 | 5      |
| WGH  | ae | 100 | -----  |
| WHAT | z  | 100 | 4      |
| WIAS | ak | 100 | 7      |
| WJAC | ae | 100 | 3      |
| WJAK | ak | 50  | 6      |
| WKAV | ae | 100 | -----  |
| WKBB | ae | 100 | b      |
| WKBC | z  | 100 | -----  |
| WKBS | z  | 100 | -----  |
| WLBC | ak | 50  | -----  |
| WMBO | ak | 100 | -----  |
| WNBH | ae | 100 | H(.25) |
| WOL  | ae | 100 | -----  |
| WRAW | z  | 100 | 5X     |
| WROL | ak | 100 | -----  |
| WSAJ | ae | 100 | -----  |
| WSJS | ae | 100 | C      |
| WTGL | ae | 100 | 4      |
| WTJS | ak | 100 | (.25)  |
| WTSL | z  | 100 | -----  |
| XEFB | ak | 100 | 1315   |
| XEI  | ak | 150 | -----  |

|                        |
|------------------------|
| Jerome, Arizona        |
| Sacramento, Calif.     |
| Boone, Iowa            |
| Dublin, Texas          |
| Greenville, Texas      |
| Grand Junction, Colo.  |
| Oklahoma City, Okla.   |
| Lubbock, Texas         |
| St. Joseph, Mo.        |
| Wolf Point, Mont.      |
| Kalispell, Mont.       |
| Kearney, Neb.          |
| Yakima, Wash.          |
| Medford, Ore.          |
| Shreveport, La.        |
| Houston, Texas         |
| El Paso, Texas         |
| Aberdeen, Wash.        |
| Marquette, Mich.       |
| Terre Haute, Ind.      |
| Wilkes-Barre, Pa.      |
| Joliet, Ill.           |
| El Paso, Texas         |
| Buffalo, N. Y.         |
| Royal Oak, Mich.       |
| Altoona, Pa.           |
| Flint, Mich.           |
| Lancaster, Pa.         |
| Newport News, Va.      |
| Philadelphia, Pa.      |
| Ottumwa, Iowa          |
| Johnstown, Pa.         |
| Elkhart, Ind.          |
| Laconia, N. H.         |
| Joliet, Ill.           |
| Birmingham, Ala.       |
| Galesburg, Ill.        |
| Muncie, Ind.           |
| Auburn, N. Y.          |
| New Bedford, Mass.     |
| Washington, D. C.      |
| Reading, Pa.           |
| Knoxville, Tenn.       |
| Grove City, Pa.        |
| Winston-Salem, N. C.   |
| Philadelphia, Pa.      |
| Jackson, Tenn.         |
| Laurel, Miss.          |
| Monterrey, N. L., Mex. |
| Morelia, Mexico        |

|                                      |
|--------------------------------------|
| Chas. C. Robinson                    |
| Jas. McClatchy Co.                   |
| Boone Biblical College               |
| C. C. Baxter                         |
| New Furniture Co.                    |
| Western Slope Broadcasting Co.       |
| Exchange Ave. Baptist Church         |
| T. E. Kirksey                        |
| KGBX, Inc. (To Springfield, Mo.)     |
| First State Bank of Vida             |
| Donald C. Treloar                    |
| Central Nebraska Bdctg. Corp.        |
| Valley Broadcasters, Inc.            |
| Mrs. W. J. Virgin                    |
| KRMD, Inc. (Jefferson Hotel)         |
| Houston Broadcasting Co.             |
| W. S. Bledsoe & W. T. Blackwell      |
| KXRO, Inc. (Hotel Morck)             |
| Lake Superior Broadcasting Co.       |
| Banks of Wabash, Inc.                |
| Louis G. Baltimore                   |
| WCLS, Inc.                           |
| Beldsoe & Blackwell                  |
| Royal Broadcasting Station           |
| Howell Broadcasting Co.              |
| The William F. Gable Co.             |
| Frank D. Fallain (Union Ind. Bldg.)  |
| WGAL, Inc. (Lancaster Newsp. Bldg.)  |
| Hampton Roads Broadcasting Corp.     |
| Independence Broadcasting Co.        |
| Iowa Bdctg. Co. (Hotel Ottumwa)      |
| WJAC, Inc.                           |
| Elkhart Daily Truth                  |
| Laconia Radio Club                   |
| Richard W. Hoffman                   |
| R. B. Broyles Furniture Co.          |
| Permil N. Nelson                     |
| D. A. Burton—A. J. Marriott          |
| WMBO, Inc. (Masonic Temple)          |
| New Bedford Bdctg. Co. (N. B. Hotel) |
| American Broadcasting Co.            |
| Reading Broadcasting Co.             |
| Stuart Bdctg. Co. (Farragut Hotel)   |
| Grove City College                   |
| Winston-Salem Journal Co.            |
| Foulkrod Radio Eng. Co., Inc.        |
| Sun Publishing Co. (Sun Bldg.)       |
| G. A. Houseman                       |
| Quintanilla Stevenson                |
| Carlos Gutierrez M.                  |

1320 kilocycles 227.1 meters

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|      |    |      |      |
|------|----|------|------|
| KGHF | ak | 250  | (.5) |
| KGMB | ak | 250  | C    |
| KID  | ae | 250  | (.5) |
| WADC | ae | 1000 | C    |
| WSMB | ae | 500  | N    |

|                    |
|--------------------|
| Pueblo, Colo.      |
| Honolulu, Hawaii   |
| Idaho Falls, Idaho |
| Akron, Ohio        |
| New Orleans, La.   |

|                             |
|-----------------------------|
| C. P. Ritchie & J. E. Finch |
| Honolulu Broadcasting Co.   |
| KID Broadcasting Co., Inc.  |
| Allan T. Simms              |
| WSMB, Inc.                  |

1330 kilocycles 225.4 meters

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|      |    |      |         |
|------|----|------|---------|
| CMJI | ak | 112  | 1335    |
| KGB  | ae | 500  | CT      |
| KMO  | ak | 250  | -----   |
| KSCJ | ah | 1000 | 1C(2.5) |
| WDRC | ae | 500  | CH      |
| WSAI | ae | 500  | R(1)    |
| WTAQ | ae | 1000 | 1C      |

|                      |
|----------------------|
| Ciego de Avila, Cuba |
| San Diego, Calif.    |
| Tacoma, Wash.        |
| Sioux City, Iowa     |
| Hartford, Conn.      |
| Cincinnati, Ohio     |
| Eau Claire, Wis.     |

|                                |
|--------------------------------|
| Gilberto Gessa Lopez           |
| Don Lee, Inc. (Pickwick Hotel) |
| KMO, Inc. (Hotel Winthrop)     |
| Perkins Bros. Co.              |
| WDRC, Inc.                     |
| The Crosley Radio Corp.        |
| The Gillette Rubber Co.        |

1340 kilocycles 223.7 meters

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|      |     |      |       |
|------|-----|------|-------|
| CMCR | z   | 150  | 1345  |
| KFPY | ae  | 1000 | CT    |
| WCOA | agj | 500  | ----- |
| WSPD | ae  | 1000 | C     |

|                 |
|-----------------|
| Havana, Cuba    |
| Spokane, Wash.  |
| Pensacola, Fla. |
| Toledo, Ohio    |

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| Aurelio Hernandez                      |
| Symons Bdctg. Co. (Symons Bldg.)       |
| Pensacola Bdctg. Co. (San Carlos Hot.) |
| Toledo Bdctg. Co. (Com. Perry Hotel)   |

INDEX BY FREQUENCIES AND DIAL NUMBERS

1350 kilocycles 222.1 meters

|      |    |      |       |                  |
|------|----|------|-------|------------------|
| CMCY | ak | 500  | 1355  | Havana, Cuba     |
| KIDO | ak | 1000 | ----- | Boise, Idaho     |
| KWK  | ae | 1000 | B     | St. Louis, Mo.   |
| WAWZ | ae | 250  | 1     | Zarephath, N. J. |
| WBNX | ae | 250  | 1a    | New York City    |
| WCDA | z  | 250  | 1     | New York City    |
| WEHC | ae | 500  | D     | Emory, Va.       |
| WMSG | ae | 250  | 1a    | New York City    |

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M. D. Autran  
C. G. Phillips & Frank Hill  
Thomas Patrick, Inc. (Hotel Chase)  
Pillar of Fire  
New York Met. Broadcasting Corp.  
Italian Educ. Bdrg. Co., Inc.  
Emory & Henry College  
New York Met. Broadcasting Corp.

1360 kilocycles 220.4 meters

|      |     |      |        |                    |
|------|-----|------|--------|--------------------|
| KGER | ah  | 1000 | -----  | Long Beach, Calif. |
| KGIR | ak  | 500  | NJ     | Butte, Mont.       |
| WCSC | z   | 500  | -----  | Charleston, S. C.  |
| WFBL | ak  | 1000 | C(2.2) | Syracuse, N. Y.    |
| WGES | ae  | 500  | 1(1)   | Chicago, Ill.      |
| WJKS | agj | 1000 | 1Z     | Gary, Ind.         |
| WQBC | ak  | 500  | -----  | Vicksburg, Miss.   |

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Consolidated Bdctg. Co. (R/C Los An.)  
KGIR, Inc.  
So. Carolina Broadcasting Co., Inc.  
Onondaga Radio Broadcasting Corp.  
Oak Leaves Broadcasting Station, Inc.  
Johnson-Kennedy Radio Corp.  
Delta Bdctg. Co. (Post-Herald Station)

1370 kilocycles 218.7 meters

|       |    |     |        |                      |
|-------|----|-----|--------|----------------------|
| CMGE  | z  | 30  | 1375   | Cardenas, Cuba       |
| KCRC  | ak | 100 | 2(.25) | Enid, Okla.          |
| KFBL  | aj | 50  | 3      | Everett, Wash.       |
| KFJM  | zk | 100 | -----  | Grand Forks, N. Dak. |
| KFJZ  | ae | 100 | -----  | Fort Worth, Texas    |
| KFLX  | z  | 100 | -----  | Galveston, Texas     |
| KGAR  | ae | 100 | (.25)  | Tucson, Arizona      |
| KGDA  | ak | 100 | -----  | Mitchell, S. Dak.    |
| KGFG  | z  | 100 | 2      | Oklahoma City        |
| KGFL  | zk | 100 | 4      | Santa Fe, N. Mex.    |
| KFKL  | ak | 100 | -----  | San Angelo, Texas    |
| KICA  | z  | 100 | 4CP    | Clovis, New Mexico   |
| KMAC  | ak | 100 | 5      | San Antonio, Texas   |
| KONO  | ak | 100 | 5      | San Antonio, Texas   |
| KOOS  | ae | 100 | -----  | Marshfield, Ore.     |
| KRE   | ak | 100 | -----  | Berkeley, Calif.     |
| KUJ   | ak | 100 | D      | Walla Walla, Wash.   |
| KVL   | z  | 100 | 3      | Seattle, Wash.       |
| KWKC  | z  | 100 | -----  | Kansas City, Mo.     |
| WBTM  | z  | 100 | 7      | Danville, Va.        |
| WCBM  | ae | 100 | Z(.25) | Baltimore, Md.       |
| WDAS  | ae | 100 | (.25)  | Philadelphia, Pa.    |
| WESG  | z  | 50  | -----  | Glens Falls, N. Y.   |
| WGL   | ae | 100 | C      | Fort Wayne, Ind.     |
| WHBD  | bk | 100 | -----  | Mount Orab, Ohio     |
| WHBQ  | ak | 100 | -----  | Memphis, Tenn.       |
| WHDF  | ak | 100 | (.25)  | Calumet, Mich.       |
| WIBM  | ae | 100 | 1      | Jackson, Mich.       |
| WJBK  | ae | 50  | 1Q     | Detroit, Mich.       |
| WJTL  | z  | 100 | -----  | Atlanta, Ga.         |
| WLEY  | ae | 100 | (.25)  | Lexington, Mass.     |
| WLVA  | ck | 100 | 7      | Lynchburg, Va.       |
| WMBR  | ak | 100 | -----  | Tampa, Fla.          |
| WPFB  | z  | 100 | -----  | Hattiesburg, Miss.   |
| WQDM  | z  | 100 | -----  | St. Albans, Vt.      |
| WRAK  | ak | 100 | 6      | Williamsport, Pa.    |
| WRAM  | ae | 100 | -----  | Wilmington, N. C.    |
| WRDO  | ae | 100 | -----  | Augusta, Maine       |
| WRJN  | ae | 100 | -----  | Racine, Wis.         |
| WSVS  | z  | 50  | -----  | Buffalo, N. Y.       |
| XEFZ  | ae | 100 | -----  | Coyoacan, Mexico     |
| ----- | z  | 100 | 6      | Williamsport, Pa.    |

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Genaro Sebater  
Enid Radiophone Co. (Oxford Hotel)  
Leese Bros.  
University of North Dakota  
Fort Worth Broadcasters, Inc.  
George Roy Clough  
Tucson Motor Service Co.  
Mitchell Broadcasting Corp.  
Oklahoma Broadcasting Co., Inc.  
KGFL, Inc.  
KGGK, Inc. (St. Angelus Hotel)  
W. E. Whitmore  
Walmac Co., Inc. (Blue Bonnet Stud.)  
Mission Broadcasting Co.  
H. H. Hanseth, Inc. (Hall Bldg.)  
First Cong. Church of Berkeley  
KUJ, Inc. (Marcus Whitman Hotel)  
KVL, Inc.  
Wilson Duncan Broadcasting Co.  
Piedmont Broadcasting Corp.  
Baltimore Broadcasting Corp.  
WDAS Bdctg. Sta., Inc. (Elks Hotel)  
W. N. Parker and H. H. Metcalfe  
F. C. Zieg  
F. P. Moler  
Station WHBQ, Inc. (Hotel Claridge)  
Upper Michigan Broadcasting Co.  
WIBM, Inc. (Otsego Hotel)  
James F. Hopkins, Inc. (Curtiss Bldg.)  
Oglethorpe University  
Lexington Air Station  
Lynchburg Broadcasting Corp.  
F. J. Reynolds  
Hattiesburg Broadcasting Co.  
A. J. St. Antoine & E. J. Regan  
C. R. Cummins (Penn Central Bldg.)  
Wilmington Radio Assn., Inc.  
WRDO, Inc. (Augusta House)  
Racine Bdctg. Corp. (Hotel Racine)  
Seneca Vocational School  
Manuel Zetina  
Sun-Gazette Broadcasting Co.

KCYC..

1380

MTRS.

217.3

DIAL

CUT OUT ON  
DOTTED LINES

1380 kilocycles 217.3 meters

|      |    |      |       |                      |
|------|----|------|-------|----------------------|
| CMJC | z  | 75   | 1382  | Camaguey, Cuba       |
| KOH  | ak | 500  | C     | Reno, Nevada         |
| KQV  | ak | 500  | 2     | Pittsburgh, Pa.      |
| KSO  | z  | 500  | ----- | Clarinda, Iowa       |
| WKBH | aj | 1000 | 1C    | LaCrosse, Wis.       |
| WSMK | ak | 200  | 2     | Dayton, Ohio         |
| XETB | z  | 125  | ----- | Torreon, Coah., Mex. |

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Feliciano Isaac  
McClatchy Newspapers  
KQV Bdctg. Co. (Investment Bldg.)  
Iowa Broadcasting Co.  
WKBH, Inc. (Radio Bldg.)  
Stanley M. Krohn, Jr.  
Jose A. Berumen

INDEX BY FREQUENCIES AND DIAL NUMBERS

1390 kilocycles 215.7 meters

|      |    |      |      |                    |
|------|----|------|------|--------------------|
| CMCG | z  | 30   | 1395 | Havana, Cuba       |
| CMCH | ak | 100  | 1395 | Havana, Cuba       |
| CMCM | z  | 15   | 1395 | Havana, Cuba       |
| CMDB | z  | 40   | 1395 | Havana, Cuba       |
| KLRA | ae | 1000 | 1C   | Little Rock, Ark.  |
| KOY  | ae | 500  | C    | Phoenix, Arizona   |
| KUOA | bk | 1000 | 1    | Fayetteville, Ark. |
| WHK  | ae | 1000 | C    | Cleveland, Ohio    |

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|--|
| Jose Justo Moran                       |
| Wifredo & Hum. Fontanals Sanchez       |
| Martinez-Madico                        |
| Julio Powers                           |
| Arkansas Broadcasting Co.              |
| Nielsen Radio & Sporting Goods Co.     |
| Southwestern Hotel Co. (Ft. Smith)     |
| Radio Air Service Corp. (Higbee Store) |

1400 kilocycles 214.2 meters

|      |     |     |       |                    |
|------|-----|-----|-------|--------------------|
| KLO  | ae  | 500 | ----- | Ogden, Utah        |
| KOCW | z   | 250 | (.5)  | Chickasha, Okla.   |
| WBAA | ak  | 500 | 1     | Lafayette, Ind.    |
| WBBC | z   | 500 | 2     | Brooklyn, N. Y.    |
| WCGU | ak  | 500 | 2     | Brooklyn, N. Y.    |
| WCMA | ak  | 500 | 1     | Culver, Ind.       |
| WFOX | z   | 500 | 2     | Brooklyn, N. Y.    |
| WKBF | ak  | 500 | 1W    | Indianapolis, Ind. |
| WLTH | aeH | 500 | 2     | Brooklyn, N. Y.    |
| XEP  | z   | 200 | ----- | Laredo, Mexico     |

|                                       |
|---------------------------------------|
| Interstate Bcg. Corp. (Hotel Bigelow) |
| College for Women                     |
| Purdue University                     |
| Brooklyn Broadcasting Corp.           |
| United States Broadcasting Corp.      |
| General Broadcasting, Inc.            |
| Paramount Broadcasting Co.            |
| Indianapolis Broadcasting, Inc.       |
| Voice of Brooklyn, Inc.               |
| La Voz Latino                         |

1410 kilocycles 212.6 meters

|      |    |      |     |                   |
|------|----|------|-----|-------------------|
| KFLV | ak | 500  | 4   | Rockford, Ill.    |
| KGRS | ae | 1000 | 1   | Amarillo, Texas   |
| WAAB | ae | 500  | CH  | Boston, Mass.     |
| WBMC | z  | 500  | C   | Bay City, Mich.   |
| WDAG | ae | 1000 | 1   | Amarillo, Texas   |
| WHBL | ak | 500  | 4   | Sheboygan, Wis.   |
| WHIS | ak | 250  | 2   | Bluefield, W. Va. |
| WODX | ea | 500  | 3CU | Mobile, Ala.      |
| WRBX | z  | 250  | 2   | Roanoke, Va.      |
| WSFA | ak | 500  | 3C  | Montgomery, Ala.  |

|                                   |
|-----------------------------------|
| Rockford Broadcasters, Inc.       |
| E. B. Gish                        |
| Bay State Broadcasting Corp.      |
| James E. Davidson                 |
| National Radio & Bdctg. Corp.     |
| The Press Publishing Co.          |
| Daily Telegraph                   |
| Mobile Broadcasting Corp.         |
| Richmond Development Corp.        |
| Montgomery Broadcasting Co., Inc. |

1420 kilocycles 211.1 meters

|      |     |     |       |                       |
|------|-----|-----|-------|-----------------------|
| KABC | ak  | 100 | ----- | San Antonio, Texas    |
| KBPS | aj  | 100 | 4     | Portland, Ore.        |
| KCMC | ak  | 100 | ----- | Texarkana, Ark.       |
| KFIZ | ak  | 100 | ----- | Fond du Lac, Wis.     |
| KGFF | ak  | 100 | ----- | Shawnee, Okla.        |
| KGGC | z   | 100 | 5     | San Francisco, Calif. |
| KGIW | z   | 100 | 1     | Trinidad, Colo.       |
| KGLX | ak  | 100 | ----- | Las Vegas, Nevada     |
| KGKX | z   | 100 | ----- | Lewiston, Idaho       |
| KICK | z   | 100 | Y     | Red Oak, Iowa         |
| KIDW | z   | 100 | 1P    | Lamar, Colo.          |
| KORE | aeH | 100 | ----- | Eugene, Ore.          |
| KUMA | ak  | 100 | ----- | Yuma, Arizona         |
| KWCR | ae  | 100 | B     | Cedar Rapids, Iowa    |
| KXL  | ae  | 100 | 4     | Portland, Ore.        |
| KXYZ | ak  | 100 | ----- | Houston, Texas        |
| WAGM | ae  | 100 | ----- | Presque Isle, Maine   |
| WEHS | ak  | 100 | a     | Cicero, Ill.          |
| WELL | z   | 50  | ----- | Battle Creek, Mich.   |
| WENC | ak  | 100 | D     | Americus, Ga.         |
| WERE | ae  | 100 | ----- | Erie, Pa.             |
| WFDW | ae  | 100 | ----- | Anniston, Ala.        |
| WHDL | aeH | 100 | D     | Tupper Lake, N. Y.    |
| WHFC | ae  | 100 | a     | Cicero, Ill.          |
| WILM | ae  | 100 | ----- | Wilmington, Del.      |
| WJBO | z   | 100 | D     | New Orleans, La.      |
| WJMS | ak  | 100 | D     | Ironwood, Mich.       |
| WKBI | ak  | 100 | a     | Cicero, Ill.          |
| WLBf | ae  | 100 | ----- | Kansas City, Kans.    |
| WMAS | z   | 100 | CP    | Springfield, Mass.    |
| WMBC | ae  | 100 | (.25) | Detroit, Mich.        |
| WMBH | z   | 100 | (.25) | Joplin, Mo.           |
| WPAD | ak  | 100 | ----- | Paducah, Ky.          |
| WSPA | aeH | 100 | (.25) | Spartanburg, S. C.    |
| WTBO | ae  | 100 | (.25) | Cumberland, Md.       |

|                                       |
|---------------------------------------|
| Alamo Bctg. Co., Inc. (Texas Theatre) |
| Student Body Benson Polytech. School  |
| Texarkana Gazette & Daily News        |
| Reporter Printing Co.                 |
| KGFF Bdctg. Co. (Aldridge Hotel)      |
| Golden Gate Broadcasting Co.          |
| Leonard E. Wilson                     |
| J. M. Heaton                          |
| Sand Point Broadcasting Co.           |
| Red Oak Radio Corp.                   |
| Southwest Broadcasting Co.            |
| Frank L. Hill & Curtis G. Phillips    |
| Dr. Albert H. Schermann               |
| Cedar Rapids Broadcast Co.            |
| KXL Broadcasters (Hotel Multnomah)    |
| Harris County Broadcast Co.           |
| Aroostook Broadcasting Corp.          |
| WEHS, Inc.                            |
| Enquirer-News Co.                     |
| Americus Broadcast Co.                |
| Erie Bdctg. Corp. (Lawrence Hotel)    |
| Raymond C. Hammett (Alabama Hot.)     |
| Tupper Lake Broadcasting Co., Inc.    |
| WHFC, Inc.                            |
| Delaware Broadcasting Co.             |
| Valdemar Jensen                       |
| WJMS, Inc. (St. James Hotel)          |
| WKBI, Inc.                            |
| WLBf Bdctg. Co. (Aladdin Hotel)       |
| Albert S. Moffet                      |
| Michigan Broadcasting Co.             |
| Edwin Dudley Aber                     |
| Paducah Bdctg. Co. (Ritz Hotel)       |
| The Voice of South Carolina           |
| Associated Broadcasting Corp.         |

1430 kilocycles 209.7 meters

|      |    |      |      |                     |
|------|----|------|------|---------------------|
| KECA | ah | 1000 | N    | Los Angeles, Calif. |
| KGfN | ak | 500  | D    | North Platte, Neb.  |
| WBak | ak | 500  | 1(1) | Harrisburg, Pa.     |

|                               |
|-------------------------------|
| Earle C. Anthony, Inc.        |
| Great Plains Broadcasting Co. |
| Pennsylvania State Police     |

INDEX BY FREQUENCIES AND DIAL NUMBERS

WCAH ae 500 CA Columbus, Ohio  
 WFEA ae 500 CH Manchester, N. H.  
 WHEC ae 500 CA Rochester, N. Y.  
 WHP ak 500 1CA(1) Harrisburg, Pa.  
 WNBK ae 500 ----- Memphis, Tenn.  
 WOKO ae 500 CA Albany, N. Y.

Commercial Radio Service Co.  
 New Hampshire Broadcasting Co.  
 WHEC, Inc. (Roch. Sav. Bank Bldg.)  
 WHP, Inc. (Harrisburg Telegraph)  
 Memphis Bdctg. Co. (WGBC)  
 WOKO, Inc. (Hotel Ten Eyck)

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1440 kilocycles 208.2 meters

CMBI z 30 1444 Havana, Cuba  
 CMBL ak 20 1444 Havana, Cuba  
 CMBN z 30 1444 Havana, Cuba  
 KDFN z ak 500 D Casper, Wyo.  
 KLS ae 250 D Oakland, Calif.  
 WBIG ae 500 C(1) Greensboro, N. C.  
 WBCA ah 250 C(1) Allentown, Pa.  
 WMBD ae 500 3C(1) Peoria, Ill.  
 WSNR z 250 a Allentown, Pa.  
 WTAD ak 500 3 Quincy, Ill.

Francisco Mayorquin  
 Julio C. Hidalgo  
 Armando Romeu  
 Donald L. Hathaway  
 Warner Bros.  
 No. Carolina Broadcasting Co., Inc.  
 B. Bryan Musselman  
 Peoria Broadcasting Co.  
 Allentown Call Publishing Co., Inc.  
 Illinois Broadcasting Corp.

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1450 kilocycles 206.8 meters

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

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

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1460 kilocycles 205.4 meters

KSTP ae 10000 N St. Paul, Minn.  
 WJSV ck 10000 C Washington, D. C.

National Battery Broadcasting Co.  
 Old Dominion Broadcasting Co.

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1470 kilocycles 204.0 meters

KGA ak 5000 B Spokane, Wash.  
 WLAC ae 5000 C Nashville, Tenn.

Northwest Broadcasting System  
 Life & Casualty Insurance Co.

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1480 kilocycles 202.6 meters

KFJF ae 5000 C Oklahoma City, Okla.  
 WKBW ae 5000 C Buffalo, N. Y.

Pan American Bdctg. System, Inc.  
 Buffalo Broadcasting Corp.

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1490 kilocycles 201.2 meters

WCKY ae 5000 N Covington, Ky.

L. B. Wilson, Inc. (Mabley & Carew)

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1500 kilocycles 199.9 meters

CMBQ z 50 ----- Havana, Cuba  
 CMBR z 15 ----- Havana, Cuba  
 KDB ak 100 CT Santa Barbara, Calif.  
 KGFJ aj 100 (.25) Corpus Christi, Texas  
 KGFK ak 50 ----- Moorhead, Minn.  
 KGIZ z 100 ----- Grant City, Mo.  
 KGKB bk 100 ----- Tyler, Texas  
 KGKY ck 100 ----- Scottsbluff, Neb.  
 KNOW ak 100 ----- Austin, Texas  
 KPJM z 100 ----- Prescott, Arizona  
 KPQ aj 50 ----- Wenatchee, Wash.  
 KREG ak 100 ----- Santa Ana, Calif.  
 KXO z 100 ----- El Centro, Calif.  
 WFDV ak 100 ----- Rome, Ga.  
 WHEF ak 100 (.25) Kosciusko, Miss.  
 WKBV z 100 ----- Connerville, Ind.  
 WKBZ ak 100 ----- Ludington, Mich.  
 WLOE z 100 (.25) Boston, Mass.  
 WMBQ z 100 1 Brooklyn, N. Y.  
 WMIL ak 100 1 Brooklyn, N. Y.  
 WMPK ak 100 ----- Lapeer, Mich.  
 WNEF ae 100 ----- Binghamton, N. Y.  
 WOPI ae 100 ----- Bristol, Tenn.  
 WPEN ae 100 (.25) Philadelphia, Pa.  
 WRDW z 100 ----- Augusta, Ga.  
 WSYB aeh 100 ----- Rutland, Vt.  
 WRRL ak 100 ----- Woodside, N. Y.  
 WWSW ae 100 X Pittsburg, Pa.

Gali-Sardinias  
 Tomas Basail  
 Santa Barbara Broadcasters, Ltd.  
 Eagle Broadcasting Co., Inc.  
 Red River Broadcasting Co., Inc.  
 Grant City Park Corp.  
 East Texas Broadcasting Co.  
 Hilliard Co., Inc.  
 KUT Bdctg. Co. (Driskill Hotel)  
 A. P. Miller  
 Westcoast Broadcasting Co.  
 J. S. Edwards  
 E. R. Irey and F. M. Bowles  
 Rome Broadcasting Corp.  
 Attala Milling & Produce Co.  
 William O. Knox  
 K. L. Ashbacher  
 Boston Broadcasting Co.  
 Paul J. Gollhofer  
 Arthur Faske  
 First Methodist Protestant Church  
 Howitt-Wood Radio Co., Inc.  
 Radiophone Bdctg. Station WOPI  
 Wm. Penn Broadcasting Co.  
 Musicove, Inc.  
 Philip Weiss Music Co.  
 Long Island Broadcasting Corp.  
 Walker & Downing Radio Corp.

KCY5.

1500

MTRS.

199.9

DIAL

# INDEX BY LOCATIONS WITH MAP KEY

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

| ALABAMA            |       |      |   | Watts | Kcys.                       |                  |      |      |       | Watts | Kcys. |
|--------------------|-------|------|---|-------|-----------------------------|------------------|------|------|-------|-------|-------|
| Anniston O-22      | 100   | WFDW | N | 1420  | Santa Barbara M-2           | 100              | KDB  | C    | 1500  |       |       |
| Birmingham O-21    | 5000  | WAPI | N | 1140  | Stockton J-2                | 250              | KGDM | C    | 1100  |       |       |
|                    | 500   | WBRC | C | 930   |                             | 100              | KWG  | C    | 1200  |       |       |
|                    | 100   | WBBC |   | 1310  | <b>COLORADO</b>             |                  |      |      |       |       |       |
| Gadsden O-21       | 100   | WJBY |   | 1210  | Colorado Springs K-11       | 1000             | KVOR | C    | 1270→ |       |       |
| Huntsville N-21    | 100   | WBHS |   | 1200  | Denver K-11                 | 500              | KFEL |      | 920→  |       |       |
| Mobile Q-20        | 500   | WODX | C | 1410  |                             | 500              | KFFX |      | 920   |       |       |
| Montgomery P-21    | 500   | WSFA | C | 1410  |                             | 1000             | KLZ  | C    | 560   |       |       |
| Troy P-21          | 100   | WHET |   | 1210  |                             | 12500            | KOA  | N    | 830→  |       |       |
|                    |       |      |   |       |                             | 500              | KPOF |      | 880   |       |       |
| <b>ALASKA</b>      |       |      |   |       |                             | Fort Morgan J-11 | 100  | KGEW | 1200  |       |       |
| Anchorage          | 250   | KFQD |   | 1230  | Grand Junction K-9          | 100              | KFXJ |      | 1310  |       |       |
| Ketchikan          | 500   | KGBU |   | 900   | Greeley J-11                | 500              | KFKA |      | 880   |       |       |
| <b>ARIZONA</b>     |       |      |   |       |                             | Lamar L-12       | 100  | KIDW | 1420  |       |       |
| Jerome M-6         | 100   | KCRJ |   | 1310  | Pueblo L-11                 | 250              | KGHF |      | 1320  |       |       |
| Phoenix N-6        | 500   | KOY  | N | 1390  | Trinidad L-11               | 100              | KGIW |      | 1420  |       |       |
|                    | 500   | KTAR | C | 620   | Yuma J-12                   | 100              | KGEK |      | 1200  |       |       |
| Prescott M-6       | 100   | KPJM |   | 1500  | <b>CONNECTICUT</b>          |                  |      |      |       |       |       |
| Tucson O-7         | 100   | KGAR |   | 1370  | Bridgeport H-27             | 250              | WICC |      | 600   |       |       |
|                    | 500   | KVOA |   | 1260  | Hartford H-27               | 500              | WDRC | C    | 1330  |       |       |
| Yuma O-5           | 100   | KUMA |   | 1420  |                             | 50000            | WTIC | R    | 1060  |       |       |
| <b>ARKANSAS</b>    |       |      |   |       |                             | Storrs H-28      | 250  | WCAC | 600   |       |       |
| Blytheville M-19   | 50    | KLCN |   | 1290  | <b>DELAWARE</b>             |                  |      |      |       |       |       |
| Fayetteville M-16  | 1000  | KUOA |   | 1390→ | Wilmington J-26             | 250              | WDEL |      | 1120  |       |       |
| Fort Smith N-16    | 100   | KFPW |   | 1210  |                             | 100              | WILM |      | 1420  |       |       |
| Hot Spring N-17    | 1000  | KTHS | N | 1040→ | <b>DISTRICT OF COLUMBIA</b> |                  |      |      |       |       |       |
| Little Rock N-17   | 250   | KARK |   | 890   | Washington J-26             | 10000            | WJSV | C    | 1460  |       |       |
|                    | 100   | KGHI |   | 1200  |                             | 250              | WMAL | C    | 630   |       |       |
|                    | 1000  | KLRA | C | 1390→ |                             | 500              | WRC  | R    | 950   |       |       |
| Paragould M-18     | 100   | KBTM |   | 1200  |                             | 100              | WOL  |      | 1310  |       |       |
| Texarkana O-17     | 100   | KCMC |   | 1420  | <b>FLORIDA</b>              |                  |      |      |       |       |       |
| <b>CALIFORNIA</b>  |       |      |   |       |                             | Clearwater R-24  | 1000 | WFLA | N     | 620   |       |
| Bakersfield L-3    | 100   | KERN | C | 1200  | Gainesville Q-24            | 5000             | WRUF | C    | 830   |       |       |
| Berkeley J-2       | 100   | KRE  |   | 1370  | Jacksonville Q-24           | 1000             | WJAX | N    | 900   |       |       |
| Beverly Hills M-3  | 500   | KMPC |   | 710   | Miami T-25                  | 1000             | WIOD | N    | 1300  |       |       |
| Burbank M-3        | 500   | KELW |   | 780   |                             | 1000             | WQAM | C    | 560   |       |       |
| El Centro N-4      | 100   | KXO  | C | 1500  | Orlando R-24                | 250              | WBDO | C    | 580   |       |       |
| Fresno K-2         | 500   | KMJ  |   | 580   | Pensacola Q-21              | 500              | WCOA |      | 1340  |       |       |
| Hollywood M-3      | 500   | KMTR |   | 570   | St. Petersburg S-24         | 1000             | WSUN | N    | 620   |       |       |
|                    | 5000  | KNX  |   | 1050  | Tampa R-24                  | 1000             | WDAE | C    | 1220  |       |       |
| Long Beach M-3     | 1000  | KFOX | C | 1250→ |                             | 100              | WMBR |      | 1370  |       |       |
|                    | 1000  | KGER |   | 1360  | <b>GEORGIA</b>              |                  |      |      |       |       |       |
| Los Angeles M-3    | 1000  | KECA | N | 1430  | Americus P-22               | 100              | WENC |      | 1420  |       |       |
|                    | 1000  | KFAC |   | 1300→ | Athens O-23                 | 500              | WTFI |      | 1450  |       |       |
|                    | 50000 | KFI  | N | 640→  | Atlanta O-22                | 250              | WGST | C    | 890   |       |       |
|                    | 500   | KFSG |   | 1120  |                             | 100              | WJTL |      | 1370  |       |       |
|                    | 250   | KFVD |   | 1000  |                             | 5000             | WSB  | N    | 740   |       |       |
|                    | 1000  | KFWB |   | 950   | Augusta O-23                | 100              | WRDW |      | 1500  |       |       |
|                    | 100   | KGFJ |   | 1200  | Columbus O-22               | 50               | WRBL |      | 1200  |       |       |
|                    | 1000  | KHJ  | C | 900   | Macon O-23                  | 500              | WMAZ |      | 1180  |       |       |
|                    | 500   | KRKD |   | 1120  | Rome N-22                   | 100              | WFDV |      | 1500  |       |       |
|                    | 500   | KTM  |   | 780   | Savannah O-24               | 500              | WTQC | C    | 1250  |       |       |
| Oakland J-1        | 250   | KLS  |   | 1440  | Thomasville Q-22            | 100              | WQDX |      | 1210  |       |       |
|                    | 500   | KLX  |   | 880   | <b>HAWAII</b>               |                  |      |      |       |       |       |
|                    | 500   | KROW |   | 930   | Honolulu                    | 250              | KGMB | C    | 1320  |       |       |
| Pasadena M-3       | 50    | KPPC |   | 1210  |                             | 1000             | KGU  | N    | 750   |       |       |
| Sacramento J-2     | 100   | KFBK |   | 1310  | <b>IDAHO</b>                |                  |      |      |       |       |       |
| San Bernardino M-3 | 100   | KFXM |   | 1210  | Boise G-5                   | 1000             | KIDO |      | 1350  |       |       |
| San Diego N-3      | 500   | KFSD | N | 600   | Idaho Falls G-7             | 250              | KID  |      | 1320  |       |       |
|                    | 500   | KGB  | C | 1330  | Nampa G-5                   | 100              | KFXD |      | 1200  |       |       |
| San Francisco J-1  | 1000  | KFRG | C | 610   | Pocatello H-7               | 250              | KSEI |      | 890   |       |       |
|                    | 500   | KFWI |   | 930   | Lewiston E-5                | 100              | KGKX |      | 1420  |       |       |
|                    | 100   | KGCC |   | 1420  | Twin Falls H-6              | 500              | KTFI |      | 1240  |       |       |
|                    | 7500  | KGO  | N | 790   |                             |                  |      |      |       |       |       |
|                    | 100   | KJBS |   | 1070  |                             |                  |      |      |       |       |       |
|                    | 5000  | KPO  | N | 680   |                             |                  |      |      |       |       |       |
|                    | 1000  | KTAB |   | 560   |                             |                  |      |      |       |       |       |
|                    | 1000  | KYA  | N | 1230  |                             |                  |      |      |       |       |       |
| San Jose J-1       | 500   | KQW  |   | 1010  |                             |                  |      |      |       |       |       |
| Santa Ana M-3      | 100   | KREG |   | 1500  |                             |                  |      |      |       |       |       |

## INDEX BY LOCATIONS WITH MAP KEY

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

### ILLINOIS

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

### INDIANA

|                   |       |      |        |
|-------------------|-------|------|--------|
| Anderson J-21     | 100   | WHBU | 1210   |
| Connorsville K-21 | 100   | WKBV | 1500   |
| Culver I-20       | 500   | WCMA | 1400   |
| Elkhart I-21      | 50    | WJAK | 1310   |
| Evansville L-20   | 500   | WGBF | 630    |
| Fort Wayne J-21   | 100   | WGL  | C 1370 |
|                   | 10000 | WOWO | C 1160 |
| Gary I-20         | 1000  | WJKS | 1360   |
| Hammond I-20      | 100   | WWAE | 1200   |
| Indianapolis J-21 | 1000  | WFBM | C 1230 |
|                   | 500   | WKBF | 1400   |
|                   | 250   | WJED | 600    |
| Lafayette J-20    | 500   | WBAA | 1400   |
| Muncie J-21       | 50    | WLBC | 1310   |
| South Bend I-20   | 100   | WFAM | 1200   |
|                   | 500   | WSBT | C 1230 |
| Terre Haute K-20  | 100   | WBOW | 1310   |

### IOWA

|                     |      |      |        |
|---------------------|------|------|--------|
| Ames I-17           | 5000 | WOI  | 640    |
| Boone I-17          | 100  | KFGQ | 1310   |
| Cedar Rapids I-18   | 100  | KWCR | B 1420 |
| Clarinda J-16       | 500  | KSO  | 1380   |
| Council Bluffs J-16 | 1000 | KOIL | B 1260 |
| Davenport I-18      | 5000 | WOC  | R 1000 |
| Decorah H-18        | 100  | KGCA | 1270   |
|                     | 100  | KWLC | 1270   |
|                     | 5000 | WHO  | R 1000 |
| Des Moines I-17     | 500  | WSUI | 880    |
| Iowa City I-18      | 100  | KFJB | 1200   |
| Marshalltown I-17   | 100  | WIAS | 1310   |
| Ottumwa J-17        | 100  | KICK | 1420   |
| Red Oak J-16        | 100  | KICK | 1420   |
| Shenandoah J-16     | 500  | KFNF | 890    |
|                     | 500  | KMA  | 930    |
| Sioux City I-15     | 1000 | KSCJ | C 1330 |
| Waterloo I-17       | 500  | WMT  | C 600  |

### KANSAS

|                  | Watts |      | Keys.  |
|------------------|-------|------|--------|
| Abilene K-14     | 5000  | KFBF | 1050   |
| Coffeyville M-15 | 500   | KGGF | 1010   |
| Dodge City L-13  | 100   | KGNO | 1210   |
| Kansas City K-16 | 100   | WLBW | 1420   |
| Lawrence K-16    | 500   | KFKU | 1220   |
|                  | 1000  | WREN | B 1220 |
| Manhattan K-15   | 500   | KSAC | 580    |
| Topeka K-16      | 1000  | WIBW | C 580  |
| Wichita L-15     | 1000  | KFH  | C 1300 |

### KENTUCKY

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

### LOUISIANA

|                  |       |      |        |
|------------------|-------|------|--------|
| Monroe P-18      | 100   | KMLB | 1200   |
| New Orleans R-19 | 100   | WABZ | 1200   |
|                  | 1000  | WDSU | C 1250 |
|                  | 100   | WJBO | 1420   |
|                  | 100   | WJBW | 1200   |
|                  | 500   | WSMB | N 1320 |
|                  | 5000  | WWL  | 850    |
| Shreveport P-17  | 100   | KRMD | 1310   |
|                  | 1000  | KTBS | N 1450 |
|                  | 100   | KWEA | 1210   |
|                  | 10000 | KWKH | 850    |

### MAINE

|                   |      |      |       |
|-------------------|------|------|-------|
| Augusta F-28      | 100  | WRDO | 1370  |
| Bangor F-29       | 100  | WABI | 1200  |
|                   | 500  | WLBZ | C 620 |
| Portland F-28     | 1000 | WCSH | R 940 |
| Presque Isle D-29 | 100  | WAGM | 1420  |

### MARYLAND

|                 |       |      |        |
|-----------------|-------|------|--------|
| Baltimore J-26  | 10000 | WBAL | B 1060 |
|                 | 250   | WCAO | C 600  |
|                 | 100   | WCBM | 1370   |
|                 | 500   | WFBR | R 1270 |
| Cumberland J-25 | 100   | WTBO | 1420   |
| Hagerstown J-25 | 100   | WJEJ | 1210   |

### MASSACHUSETTS

|                  |       |      |        |
|------------------|-------|------|--------|
| Babson Park G-28 | 500   | WBSO | 920    |
| Boston G-28      | 500   | WAAB | C 1410 |
|                  | 25000 | WBZ  | B 990  |
|                  | 1000  | WEEI | R 590  |
|                  | 1000  | WHDH | 830    |
|                  | 100   | WLOE | 1500   |
|                  | 1000  | WNAC | C 1230 |
|                  | 250   | WSAR | 1450   |
| Fall River H-28  | 100   | WLEY | 1370   |
| Lexington G-28   | 100   | WNBH | 1310   |
| New Bedford H-28 | 1000  | WBZA | B 990  |
| Springfield H-27 | 100   | WMAS | 1420   |
| Worcester G-28   | 100   | WORC | C 1200 |
|                  | 250   | WTAG | R 580  |

### MICHIGAN

|                   |       |      |        |
|-------------------|-------|------|--------|
| Battle Creek I-21 | 50    | WELL | 1420   |
| Bay City H-22     | 500   | WBCM | C 1410 |
| Calumet E-19      | 100   | WHDF | 1370   |
| Detroit H-22      | 50    | WJBK | 1370   |
|                   | 10000 | WRJ  | B 750  |
|                   | 100   | WMBC | 1420   |
|                   | 1000  | WWJ  | R 920  |
|                   | 1000  | WXYZ | 1240   |
| East Lansing H-21 | 1000  | WKAR | 1040   |

# INDEX BY LOCATIONS WITH MAP KEY

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

|                     | Watts |      | Keys.  |                      | Watts |      | Keys.  |
|---------------------|-------|------|--------|----------------------|-------|------|--------|
| Flint H-22          | 100   | WFDF | 1310   | <b>NEVADA</b>        |       |      |        |
| Grand Rapids H-21   | 500   | WASH | 1270   | Las Vegas L-5        | 100   | KGIX | 1420   |
|                     | 500   | WOOD | 1270   | Reno I-3             | 500   | KOH  | C 1380 |
| Ironwood F-18       | 100   | WJMS | 1420   | <b>NEW HAMPSHIRE</b> |       |      |        |
| Jackson I-21        | 100   | WIBM | 1370   | Laconia G-28         | 100   | WKAV | 1310   |
| Kalamazoo I-21      | 1000  | WKZO | 590    | Manchester G-28      | 500   | WFEA | C 1430 |
| Lapeer H-22         | 100   | WMPC | 1500   | Portsmouth G-28      | 250   | WHEB | 740    |
| Ludington H-20      | 100   | WKBZ | 1500   | <b>NEW JERSEY</b>    |       |      |        |
| Marquette F-19      | 100   | WBEO | 1310   | Asbury Park I-27     | 500   | WCAP | C 1280 |
| Royal Oak H-22      | 50    | WEXL | 1310   | Atlantic City J-27   | 5000  | WPG  | C 1100 |
| <b>MINNESOTA</b>    |       |      |        | Camden I-26          | 500   | WCAM | 1280   |
| Fergus Falls F-15   | 100   | KGDE | 1200   | Hackensack I-27      | 250   | WBMS | 1450   |
| Minneapolis G-17    | 5000  | WCCO | C 810  | Jersey City I-27     | 300   | WAAT | 940    |
|                     | 1000  | WDGY | 1180   | Newark I-27          | 250   | WHOM | 1450   |
|                     | 1000  | WLB  | 1250   |                      | 1000  | WAAM | 1250   |
| Moorhead F-15       | 50    | WRHM | 1250   |                      | 250   | WGCP | 1250   |
| Northfield G-17     | 1000  | KGFK | 1500   |                      | 250   | WNJ  | 1450   |
|                     | 1000  | KFMX | 1250   |                      | 5000  | WOR  | 710    |
| St. Paul G-17       | 10000 | WCAL | 1250   | Paterson I-27        | 1000  | WODA | 1250   |
|                     |       | KSTP | N 1460 | Red Bank I-27        | 100   | WBJ  | 1210   |
| <b>MISSISSIPPI</b>  |       |      |        | Trenton I-26         | 500   | WOAX | 1280   |
| Greenville O-18     | 100   | WKFI | 1210   | Zarephath I-27       | 250   | WAWZ | 1350   |
| Gulfport Q-19       | 100   | WGCM | 1210   | <b>NEW MEXICO</b>    |       |      |        |
| Hattiesburg Q-19    | 100   | WPFB | 1370   | Albuquerque N-7      | 250   | KGGM | 1230   |
| Jackson P-19        | 1000  | WJDX | N 1270 |                      | 10000 | KOB  | 1180   |
| Kosciusko O-19      | 100   | WHEF | 1500   | Clovis N-11          | 100   | KICA | 1370   |
| Laurel P-20         | 100   | WTSL | 1310   | Santa Fe M-10        | 100   | KGFL | 1370   |
| Meridian P-20       | 500   | WCOC | 880    | <b>NEW YORK</b>      |       |      |        |
| Tupelo N-20         | 500   | 990  |        | Albany H-27          | 500   | WOKO | C 1430 |
| Vicksburg P-18      | 500   | WQBC | 1360   | Auburn H-25          | 100   | WMBO | 1310   |
| <b>MISSOURI</b>     |       |      |        | Binghamton H-26      | 500   | WNBF | 1500   |
| Cp. Girardeau L-19  | 100   | KFVS | 1210   | Brooklyn I-27        | 1000  | WBBC | 1400   |
| Columbia K-17       | 500   | KFRU | 630    |                      | 500   | WBBR | 1300   |
| Grant City J-16     | 100   | KGIZ | 1500   |                      | 500   | WCGU | 1400   |
| Jefferson City L-17 | 500   | WOS  | 630    |                      | 500   | WFOX | 1400   |
| Joplin M-16         | 100   | WMBH | 1420   |                      | 500   | WLTH | 1400   |
| Kansas City K-16    | 1000  | KMBC | C 950  |                      | 100   | WMBQ | 1500   |
|                     | 100   | KWKC | 1370   |                      | 100   | WMIL | 1500   |
|                     | 1000  | WDAF | R 610  | Buffalo H-24         | 1000  | WBEN | R 900  |
|                     | 500   | WHB  | 860    |                      | 100   | WEBR | 1310   |
|                     | 1000  | WOQ  | 1300   |                      | 1000  | WGR  | C 550  |
| St. Joseph K-16     | 2500  | KFEQ | 680    |                      | 5000  | KKBW | C 1480 |
|                     | 100   | KGBX | 1310   |                      | 50    | WSVS | 1370   |
| St. Louis L-18      | 500   | KFUO | 550    |                      | 500   | WCAD | 1220   |
|                     | 100   | KFWF | 1200   |                      | 100   | WGBB | 1210   |
|                     | 50000 | KMOX | C 1090 |                      | 50    | WESG | 1370   |
|                     | 500   | KSD  | R 550  |                      | 1000  | WEAJ | 1270   |
|                     | 1000  | KWK  | B 1350 |                      | 100   | WMRJ | 1210   |
|                     | 1000  | WEW  | 760    |                      | 50    | WOCL | 1210   |
|                     | 100   | WIL  | 1200   |                      | 50000 | WABC | C 860  |
| <b>MONTANA</b>      |       |      |        |                      | 250   | WBNX | 1350   |
| Billings F-9        | 1000  | KGHL | N 950  |                      | 50000 | WBOQ | 860    |
| Butte F-7           | 500   | KGIR | N 1360 |                      | 250   | WCDA | 1350   |
| Great Falls E-8     | 1000  | KFBB | 1280   |                      | 50000 | WEAF | R 660  |
| Kalispell D-7       | 100   | KGEZ | 1310   |                      | 500   | WEVD | 1300   |
| Missoula E-7        | 100   | KGVO | 1200   |                      | 1000  | WFAB | 1300   |
| Wolf Point E-11     | 100   | KGCX | 1310   |                      | 500   | WINS | 1180   |
| <b>NEBRASKA</b>     |       |      |        |                      | 250   | WHN  | 1010   |
| Clay Center J-14    | 1000  | KMMJ | 740    |                      | 30000 | WJZ  | B 760  |
| Kearney J-14        | 100   | KGFW | 1310   |                      | 5000  | WLWL | 1100   |
| Lincoln J-15        | 5000  | KFAB | C 770  |                      | 500   | WMCA | 570    |
|                     | 100   | KFOR | 1210   |                      | 250   | WMSG | 1350   |
|                     | 500   | WCAJ | 590    |                      | 500   | WNYC | 570    |
| Norfolk I-15        | 1000  | WJAG | 1060   |                      | 1000  | WOV  | 1130   |
| North Platte J-13   | 500   | KGNF | 1430   |                      | 250   | WPAP | 1010   |
| Omaha J-15          | 500   | WAAW | 660    |                      | 500   | WPCH | 810    |
|                     | 1000  | WOW  | R 590  |                      | 250   | WQAO | 1010   |
| Scottsbluff I-11    | 100   | KGKY | 1500   |                      | 250   | WRNY | 1010   |
| York J-15           | 500   | KGBZ | 930    |                      | 5000  | WHAM | B 1150 |
|                     |       |      |        |                      | 500   | WHEC | C 1430 |



# INDEX BY LOCATIONS WITH MAP KEY

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

|                   | Watts |      | Kcvs.  |
|-------------------|-------|------|--------|
| Saranac Lake F-26 | 50    | WNBZ | 1290   |
| Schenectady G-27  | 50000 | WGY  | R 790  |
| Syracuse G-25     | 1000  | WFBL | C 1360 |
|                   | 250   | WMAC | 570    |
|                   | 250   | WSYR | R 570  |
| Troy G-27         | 500   | WHAZ | 1300   |
| Tupper Lake F-26  | 100   | WHDL | 1420   |
| Utica G-26        | 100   | WIBX | 1200   |
| Woodside 1-27     | 100   | WWRL | 1500   |
| White Plains 1-27 | 100   | WFAS | 1210   |

## NORTH CAROLINA

|                    |       |      |        |
|--------------------|-------|------|--------|
| Asheville M-23     | 1000  | WWNC | N 570  |
| Charlotte M-24     | 25000 | WBT  | C 1080 |
| Gastonia M-24      | 100   | WSOC | 1210   |
| Greensboro M-24    | 500   | WBIG | C 1440 |
| Raleigh M-25       | 1000  | WPTF | N 680  |
| Wilmington N-26    | 100   | WRAM | 1370   |
| Winston-Salem M-24 | 100   | WSJS | C 1310 |

## NORTH DAKOTA

|                  |      |      |       |
|------------------|------|------|-------|
| Bismarck F-13    | 1000 | KFYR | N 550 |
| Devils Lake E-14 | 100  | KDLR | 1210  |
| Fargo F-15       | 1000 | WDAY | N 940 |
| Grand Forks E-15 | 100  | KFMJ | 1370  |
| Mandan F-13      | 250  | KGCU | 1240  |
| Minot E-13       | 250  | KLPM | 1240  |

## OHIO

|                 |       |      |        |
|-----------------|-------|------|--------|
| Akron I-23      | 1000  | WADC | C 1320 |
| Canton I-23     | 10    | WHBC | 1260   |
| Cincinnati K-22 | 100   | WFBE | 1200   |
|                 | 1000  | WKRC | C 550  |
|                 | 50000 | WLW  | B 700  |
|                 | 500   | WSAJ | R 1330 |
|                 | 500   | WGAR | B 1450 |
|                 | 1000  | WHK  | C 1390 |
|                 | 500   | WJAY | 610    |
|                 | 50000 | WTAM | R 1070 |
|                 | 500   | WAIU | 640    |
|                 | 500   | WCAH | C 1430 |
|                 | 750   | WEAO | 570    |
|                 | 100   | WSEN | 1210   |
|                 | 200   | WSMK | 1380   |
|                 | 100   | WTW  | 1210   |
|                 | 100   | WHBD | 1370   |
|                 | 1000  | WSPD | C 1340 |
|                 | 500   | WKBN | C 570  |
|                 | 100   | WALR | 1210   |

## OKLAHOMA

|                |      |      |        |
|----------------|------|------|--------|
| Chickasha N-14 | 250  | KOCW | 1400   |
| Elk City N-13  | 100  | KASA | 1210   |
| Enid M-14      | 100  | KCRC | 1370   |
| Norman N-15    | 500  | WNAD | 1010   |
| Oklahoma N-15  | 5000 | KFJF | C 1480 |
|                | 100  | KFXR | 1310   |
|                | 100  | KGFG | 1370   |
|                | 1000 | WKY  | N 900  |
|                | 100  | WBBZ | 1200   |
|                | 100  | KGFF | 1420   |
|                | 5000 | KVOO | N 1140 |

## OREGON

|                   |      |      |      |
|-------------------|------|------|------|
| Corvallis E-2     | 1000 | KOAC | 550  |
| Eugene F-2        | 100  | KORE | 1420 |
| Klamath Falls G-3 | 100  | KFJI | 1210 |
| Marshfield F-1    | 100  | KOOS | 1370 |
| Medford G-2       | 100  | KMED | 1310 |

|              | Watts |      | Kcvs.  |
|--------------|-------|------|--------|
| Portland E-3 | 5000  | KEX  | N 1180 |
|              | 100   | KBPS | 1420   |
|              | 500   | KFJR | 1300   |
|              | 1000  | KGW  | N 620  |
|              | 1000  | KOIN | C 940  |
|              | 500   | KTBR | 1300   |
|              | 500   | KWJJ | 1060   |
|              | 100   | KXL  | 1420   |

## PENNSYLVANIA

|                 |       |      |        |
|-----------------|-------|------|--------|
| Allentown I-26  | 250   | WCBA | 1440   |
|                 | 250   | WSAN | 1440   |
|                 | 100   | WFBG | 1310   |
|                 | 10    | WNBW | 1200   |
|                 | 100   | WERE | 1420   |
|                 | 25    | WBG  | 930    |
|                 | 100   | WSAJ | 1310   |
|                 | 500   | WBAK | 1430   |
|                 | 100   | WCOD | 1200   |
|                 | 500   | WHP  | C 1430 |
|                 | 100   | WJAC | 1310   |
|                 | 100   | WGAL | 1310   |
|                 | 100   | WKJC | 1200   |
|                 | 100   | WJBU | 1210   |
|                 | 500   | WLBW | 1260   |
|                 | 1000  | WCAU | C 1170 |
|                 | 100   | WDAS | 1370   |
|                 | 500   | WFAN | C 610  |
|                 | 500   | WFI  | R 560  |
|                 | 100   | WHAT | 1310   |
|                 | 500   | WIP  | C 610  |
|                 | 500   | WLIT | R 560  |
|                 | 100   | WPEN | 1500   |
|                 | 250   | WRAX | 1020   |
|                 | 100   | WTEL | 1310   |
| Pittsburgh J-24 | 50000 | KDKA | B 980  |
|                 | 500   | KQV  | 1380   |
|                 | 1000  | WCAE | R 1220 |
|                 | 1000  | WJAS | C 1290 |
|                 | 100   | WWSW | 1500   |
|                 | 1000  | WEEU | 830    |
|                 | 100   | WRAW | 1310   |
|                 | 250   | WGBI | 880    |
|                 | 250   | WQAN | 880    |
|                 | 100   | WNBO | 1200   |
|                 | 500   | WPSC | 1230   |
|                 | 100   | WBAX | 1210   |
|                 | 100   | WBRE | 1310   |
|                 | 100   | WRAK | 1370   |
|                 | 100   | ---  | 1370   |
|                 | 1000  | WORK | 1000   |

## PHILIPPINES

|        |       |      |       |
|--------|-------|------|-------|
| Cebu   | 500   | KZRC | 937.5 |
| Manila | 1000  | KZKA | 1110  |
|        | 50000 | KZRM | 618.5 |

## PORTO RICO

|               |      |      |      |
|---------------|------|------|------|
| San Juan W-34 | 1000 | WKAQ | 1240 |
|---------------|------|------|------|

## RHODE ISLAND

|                 |     |      |       |
|-----------------|-----|------|-------|
| Providence H-28 | 250 | WEAN | C 780 |
|                 | 250 | WJAR | R 890 |
|                 | 100 | WPAW | 1210  |
|                 | 100 | WPRO | 1210  |

## SOUTH CAROLINA

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

## INDEX BY LOCATIONS WITH MAP KEY

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

| SOUTH DAKOTA        |       |             | VIRGINIA           |       |             |
|---------------------|-------|-------------|--------------------|-------|-------------|
|                     | Watts | Keys.       |                    | Watts | Keys.       |
| Brookings H-15      | 500   | KFDY 550    | Arlington J-25     | 1000  | NAA 690     |
| Huron H-14          | 100   | KGDY 1200   | Danville L-25      | 100   | WBTM 1370   |
| Mitchell H-14       | 100   | KGDA 1370   | Emory L-23         | 500   | WEHC 1350   |
| Pierre G-13         | 200   | KGFX 630    | Lynchburg L-25     | 100   | WLVA 1370   |
| Rapid City H-12     | 100   | WCAT 1200   | Newport News L-26  | 100   | WGH 1310    |
| Sioux Falls H-15    | 1000  | KSOO 1110   | Norfolk L-26       | 500   | WTAR C 780  |
| Vermillion I-15     | 500   | KUSD 890    | Petersburg L-26    | 100   | WPHR 1200   |
| Watertown G-15      | 100   | KGCR 1210   | Portsmouth L-26    | 500   | WPOR 780    |
| Yankton I-15        | 1000  | WNAX C 570  | Richmond K-26      | 100   | WBBL 1210   |
|                     |       |             |                    | 100   | WMBG C 1210 |
|                     |       |             |                    | 5000  | WRVA N 1110 |
|                     |       |             | Roanoke L-24       | 250   | WDBJ C 930  |
|                     |       |             |                    | 250   | WRBX 1410   |
| TENNESSEE           |       |             | WASHINGTON         |       |             |
| Bristol L-23        | 100   | WOPI 1500   | Aberdeen D-2       | 100   | KXRO 1310   |
| Chattanooga N-21    | 1000  | WDOD C 1280 | Bellingham C-3     | 100   | KVOS 1200   |
| Jackson N-20        | 100   | WTJS 1310   | Everett C-3        | 50    | KFBL 1370   |
| Knoxville M-22      | 1000  | WNOX C 560  | Olympia D-3        | 100   | KG Y 1210   |
|                     | 100   | WROL 1310   | Pullman E-5        | 1000  | KWSC 1220   |
| Memphis N-19        | 100   | WHBQ 1370   | Seattle C-3        | 5000  | KJR N 970   |
|                     | 500   | WMC N 780   |                    | 1000  | KOL C 1270  |
|                     | 500   | WNBR 1430   |                    | 1000  | KOMO N 920  |
|                     | 500   | WREC C 600  |                    | 100   | KPCB 650    |
| Nashville M-21      | 5000  | WLAC 1470   |                    | 100   | KRSC 1120   |
|                     | 50000 | WSM N 650   |                    | 1000  | KTW 1220    |
| Springfield M-20    | 100   | WSIX 1210   |                    | 100   | KVL 1370    |
|                     |       |             |                    | 250   | KXA 760     |
|                     |       |             |                    | 100   | KFIO 1120   |
|                     |       |             | Spokane D-5        | 1000  | KFPY 1340   |
|                     |       |             |                    | 5000  | KGA B 1470  |
|                     |       |             |                    | 1000  | KHQ N 590   |
|                     |       |             | Tacoma D-3         | 250   | KMO C 1330  |
|                     |       |             |                    | 500   | KVI C 570   |
|                     |       |             | Walla Walla E-5    | 100   | KUJ 1370    |
|                     |       |             | Wenatchee D-4      | 50    | KPQ 1500    |
|                     |       |             | Yakima D-4         | 100   | KIT 1310    |
| TEXAS               |       |             | WEST VIRGINIA      |       |             |
| Amarillo N-12       | 1000  | KGRS 1410   | Bluefield L-24     | 250   | WHIS 1410   |
|                     | 1000  | WDAG 1410   | Charleston K-23    | 250   | WOBU 580    |
| Austin Q-14         | 100   | KNOW 1500   | Fairmont J-24      | 250   | WMMN 890    |
| Beaumont R-17       | 500   | KFDM 560    | Huntington K-23    | 250   | WSAZ 580    |
| Brownsville U-15    | 500   | KWVG 1260   | Wheeling J-24      | 5000  | WWVA C 1160 |
| College Sta. Q-15   | 500   | WTAW 1120   |                    |       |             |
| Corpus Christi S-14 | 100   | KGFI 1500   |                    |       |             |
| Dallas P-15         | 10000 | KRLD 1040   |                    |       |             |
|                     | 50000 | WFAA N 800  |                    |       |             |
|                     | 500   | WRR C 1280  |                    |       |             |
| Dublin P-14         | 100   | KFPL 1310   |                    |       |             |
| El Paso P-9         | 100   | KTSM 1310   |                    |       |             |
|                     | 100   | WDAH 1310   |                    |       |             |
| Fort Worth P-15     | 100   | KFJZ 1370   |                    |       |             |
|                     | 1000  | KTAT 1240   |                    |       |             |
|                     | 10000 | WBAP N 800  |                    |       |             |
| Galveston R-16      | 100   | KFLX 1370   |                    |       |             |
|                     | 500   | KFUL 1290   |                    |       |             |
| Greenville O-15     | 15    | KFPM 1310   |                    |       |             |
| Harlingen T-14      | 500   | KRGV 1260   |                    |       |             |
| Houston R-16        | 1000  | KPRC N 920  |                    |       |             |
|                     | 100   | KTLC 1310   |                    |       |             |
|                     | 500   | KTRH C 1120 |                    |       |             |
|                     | 100   | KXYZ 1420   |                    |       |             |
| Lubbock O-12        | 100   | KFYD 1310   |                    |       |             |
| San Angelo Q-13     | 100   | KGKL 1370   |                    |       |             |
| San Antonio R-14    | 100   | KABC 1420   |                    |       |             |
|                     | 100   | KMAC 1370   |                    |       |             |
|                     | 100   | KONO 1370   |                    |       |             |
|                     | 1000  | KTSA C 1290 |                    |       |             |
|                     | 50000 | WOAI N 1190 |                    |       |             |
| Tyler P-16          | 100   | KGKB 1500   |                    |       |             |
| Waco Q-15           | 1000  | WACO C 1240 |                    |       |             |
| Wichita Falls O-14  | 250   | KGKO 570    |                    |       |             |
|                     |       |             |                    |       |             |
| UTAH                |       |             | WISCONSIN          |       |             |
| Ogden I-7           | 500   | KLO 1400    | Eau Claire G-18    | 1000  | WTAQ C 1330 |
| Salt Lake City I-7  | 2500  | KDYL C 1290 | Fond du Lac H-19   | 100   | KFIZ 1420   |
|                     | 5000  | KSL C 1130  | Green Bay G-19     | 100   | WHBY 1200   |
|                     |       |             | Janesville I-19    | 100   | WCLO 1200   |
|                     |       |             | La Crosse H-18     | 1000  | WKBH C 1380 |
|                     |       |             | Madison H-19       | 1000  | WHA 940     |
|                     |       |             |                    | 500   | WIBA N 1280 |
|                     |       |             | Manitowoc H-20     | 100   | WOMT 1210   |
|                     |       |             | Milwaukee H-19     | 250   | WHAD C 1120 |
|                     |       |             |                    | 250   | WISN C 1120 |
|                     |       |             |                    | 1000  | WTMJ N 620  |
|                     |       |             | Poynette H-19      | 100   | WIBU 1210   |
|                     |       |             | Racine I-20        | 100   | WRJN 1370   |
|                     |       |             | Sheboygan H-20     | 500   | WHBL 1410   |
|                     |       |             | Stevens Point G-19 | 2000  | WLBL 900    |
|                     |       |             | Superior F-17      | 1000  | WEBC N 1290 |
| VERMONT             |       |             | WYOMING            |       |             |
| Burlington F-27     | 100   | WCAX 1200   | Casper H-10        | 500   | KDFN 1440   |
| Rutland G-27        | 100   | WSYB 1500   |                    |       |             |
| St. Albans F-27     | 100   | WQDM 1370   |                    |       |             |
| Waterbury F-27      | 500   | WDEV 550    |                    |       |             |
|                     |       |             |                    |       |             |
|                     |       |             | CANADA             |       |             |
|                     |       |             | ALBERTA            |       |             |
|                     |       |             | Calgary B-7        | 500   | CFAC 690    |
|                     |       |             |                    | 10000 | CFCN 985    |
|                     |       |             |                    | 500   | CJ CJ 690   |

## INDEX BY LOCATIONS WITH MAP KEY

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

|                             | Watts |       | Kcys.  |                        | Watts |         | Kcys. |
|-----------------------------|-------|-------|--------|------------------------|-------|---------|-------|
| Edmonton A-8                | 250   | CHMA  | 580    | Quebec D-27            | 100   | CHRC    | 645   |
|                             | 500   | CJCA  | 745    |                        | 100   | CKCI    | 645   |
|                             | 500   | CKUA  | 580    |                        | 100   | CKCV    | 880   |
| Lethbridge C-8              | 100   | CJOC  | 1120   | <b>SASKATCHEWAN</b>    |       |         |       |
| Red Deer A-8                | 1000  | CKLC  | 840    | Canora A-13            | 15    | 10-BU   | 1200  |
| <b>BRITISH COLUMBIA</b>     |       |       |        | Fleming C-13           | 1000  | CJRW    | 665   |
| Chilliwack B-3              | 100   | CHWK  | 665    | Moose Jaw C-11         | 500   | CJRM    | 665   |
| Kamloops B-5                | 100   | CJFC  | 1120   |                        | 25    | 10-AB   | 1200  |
| Kelowna C-5                 | 100   | CKOV  | 1200   | Prince Albert A-11     | 25    | 10-BI   | 1200  |
| Trail C-6                   | 25    | 10-AT | 1155   | Regina C-12            | 500   | CHWC    | 960   |
| Vancouver B-3               | 100   | CHLS  | 730    |                        | 500   | CKKC    | 960   |
|                             | 500   | CJOR  | 1210   | Saskatoon B-11         | 500   | CFQC    | 910   |
|                             | 100   | CKCD  | 730    | Yorkton B-13           | 500   | CJGX    | 630   |
|                             | 50    | CKFC  | 730    | <b>NEWFOUNDLAND</b>    |       |         |       |
|                             | 100   | CKMO  | 730    | St. Johns A-35         | 75    | VOAS    | 810   |
|                             | 100   | CKWX  | 730    |                        | 30    | VONA    | 950   |
|                             | 500   | CNRV  | 1030   |                        | 500   | VOWR    | 750   |
| Victoria C-3                | 500   | CFCT  | 630    | Wabana A-35            | 100   | VOGT    | 893   |
| <b>MANITOBA</b>             |       |       |        | <b>CENTRAL AMERICA</b> |       |         |       |
| Brandon D-14                | 500   | CKX   | 930    | <b>COSTA RICA</b>      |       |         |       |
| Winnipeg D-15               | 5000  | CKY   | 780    | San Jose FF-23         | 50    | TICR    | 911   |
| <b>NEW BRUNSWICK</b>        |       |       |        | <b>GUATAMALA</b>       |       |         |       |
| Fredericton D-29            | 50    | CFNB  | 1210   | Guatamala CC-19        | 50    | TGW     | 570   |
| Moncton D-30                | 700   | CNRA  | 630    | <b>SALVADOR</b>        |       |         |       |
| St. John D-30               | 500   | CFBO  | 890    | Salvador CC-19         | 500   | RUS     | 664   |
| <b>NOVA SCOTIA</b>          |       |       |        | <b>MEXICO</b>          |       |         |       |
| Glace Bay C-32              | 2000  | VAS   | 685    | <b>AGUASCALIENTES</b>  |       |         |       |
| Halifax E-31                | 500   | CHNS  | 815    | Aguascalientes W-10    | 250   | XFC     | 810   |
|                             | 500   | CNRH  | 815    | <b>BAJA CALIFORNIA</b> |       |         |       |
|                             | 100   | VCX   | 690    | Tiajuana N-3           | 300   | XEFD    | 845   |
| Sydney C-32                 | 100   | CJCB  | 880    | <b>CHIHUAHUA</b>       |       |         |       |
| Wolfville D-31              | 50    | CKIC  | 1010   | Chihuahua R-9          | 100   | XEFI    | 1000  |
| <b>ONTARIO</b>              |       |       |        |                        | 250   | XFF     | 875   |
| Brantford H-23              | 15    | 10-BQ | 1200   | Juarez P-9             | 101   | XEJ     | 1000  |
| Chatham H-22                | 250   | CFCO  | 1210   |                        | 5000  | XEQ     | 750   |
| Cobalt E-23                 | 100   | CKMC  | 1210   | <b>COAHUILA</b>        |       |         |       |
| Ft. William E-19            | 50    | CKPR  | 890    | Salttillo, Coah. U-12  | 25    | XEL     | 1000  |
| Hamilton H-24               | 50    | CHML  | 880    | Torreón U-11           | 125   | XETB    | 1380  |
|                             | 1000  | CKOC  | 635    |                        | 100   | XETG    | 1000  |
| Kingston G-25               | 50    | CFRC  | 930    | Villa Acuna R-12       | 75000 | XER-XEF | 735   |
| London H-23                 | 5000  | CJGC  | 595    | <b>D. F.</b>           |       |         |       |
| North Bay E-23              | 100   | CFCH  | 930    | Coyoacan Y-13          | 100   | XEFZ    | 1370  |
| Ottawa F-25                 | 100   | CKCO  | 890    | Mexico City Y-13       | 1000  | XEB     | 1030  |
|                             | 500   | CNRO  | 600    |                        | 250   | XEFA    | 1250  |
|                             | 100   | CFLC  | 915    |                        | 250   | XEG     | 1070  |
| Prescott F-25               | 100   | CKPC  | 880    |                        | 101   | XEK     | 990   |
| Preston H-23                | 100   | CKTB  | 635    |                        | 1000  | XEN     | 711   |
| St. Catharines H-24         | 1000  | 10-AK | 1200   |                        | 5000  | XEO     | 940   |
| Stratford H-23              | 15    | CKFC  | 1120   |                        | 500   | XETA    | 1140  |
| Toronto G-24                | 500   | CFCL  | 580    |                        | 100   | XETO    | 1230  |
|                             | 10000 | CFRB  | 690    |                        | 2500  | XETR    | 610   |
|                             | 500   | CKCL  | 580    |                        | 5000  | XEW     | 910   |
|                             | 5000  | CKGW  | 840    |                        | 500   | XEX     | 1210  |
|                             | 500   | CKNC  | 960    |                        | 500   | XEZ     | 780   |
|                             | 5000  | CPRY  | 840    |                        | 2000  | XFG     | 638   |
|                             | 100   | CKCR  | 645    |                        | 500   | XFX     | 867   |
| Waterloo G-23               | 5000  | CKOK  | 540    |                        | 50    | XEC     | 1000  |
| Windsor H-22                | 25    | 10-BP | 1199   |                        |       |         |       |
| Wingham G-23                |       |       |        |                        |       |         |       |
| <b>PRINCE EDWARD ISLAND</b> |       |       |        |                        |       |         |       |
| Charlottetown C-31          | 500   | CFCY  | 580    |                        |       |         |       |
|                             | 100   | CHCK  | 960    |                        |       |         |       |
| Summerside C-31             | 100   | CHGS  | 1120   |                        |       |         |       |
| <b>QUEBEC</b>               |       |       |        |                        |       |         |       |
| Montreal E-26               | 500   | CFCF  | N 1030 |                        |       |         |       |
|                             | 5000  | CHYC  | 730    |                        |       |         |       |
|                             | 5000  | CKAC  | C 730  |                        |       |         |       |
|                             |       |       |        | Toluca Y-1             |       |         |       |

## INDEX BY LOCATIONS WITH MAP KEY

|                        | Watts |      | Kcys. |                           | Watts |      | Kcys. |
|------------------------|-------|------|-------|---------------------------|-------|------|-------|
| <b>JALISCO</b>         |       |      |       |                           |       |      |       |
| Guadalajara, Jal. X-10 | 500   | XEA  | 1155  | Cienfuegos W-25           | 75    | CMHJ | 1150  |
| <b>MICHOACAN</b>       |       |      |       | Colon W-24                | 30    | CMGI | 1150  |
| Morelia, Mich. Y-12    | 150   | XEI  | 1310  | Guantanamo X-28           | 20    | CMKJ | 1300  |
| <b>NEUVO LEON</b>      |       |      |       | Havana W-23               | 500   | CMAF | 660   |
| Monterrey, N. L. U-13  | 100   | XEFB | 1315  |                           | 500   | CMBC | 965   |
|                        | 1000  | XEH  | 1132  |                           | 150   | CMBD | 965   |
|                        | 500   | XET  | 690   |                           | 225   | CMBG | 1070  |
| <b>OAXACA</b>          |       |      |       |                           | 30    | CMBI | 1444  |
| Oaxaca, Oax. AA-14     | 105   | XEE  | 1000  |                           | 20    | CMBL | 1444  |
| <b>PUEBLA</b>          |       |      |       |                           | 30    | CMBN | 1444  |
| Puebla Z-13            | 101   | XEV  | 1000  |                           | 50    | CMBQ | 1500  |
| <b>QUERETARO</b>       |       |      |       |                           | 15    | CMBR | 1500  |
| Queretaro X-12         | 40    | XEFS | 1000  |                           | 150   | CMBT | 790   |
| <b>TAMAULIPAS</b>      |       |      |       |                           | 150   | CMBT | 790   |
| N. Laredo S-13         | 101   | XEFE | 1000  |                           | 150   | CMBW | 1140  |
|                        | 200   | XEP  | 1400  |                           | 350   | CMBY | 1235  |
| Reynosa, Tams. T-14    | 10000 | XED  | 965   |                           | 150   | CMBZ | 1010  |
| Tampico, Tams. W-14    | 500   | XEM  | 730   |                           | 500   | CMC  | 840   |
|                        | 500   | XES  | 1055  |                           | 150   | CMCA | 1235  |
| <b>VERA CRUZ</b>       |       |      |       |                           | 150   | CMCB | 1070  |
| Jalapa Y-14            | 100   | XETC | 1000  |                           | 250   | CMCD | 925   |
| Vera Cruz, Ver. Z-14   | 500   | XETF | 630   |                           | 250   | CMCF | 890   |
|                        | 100   | XEU  | 1007  |                           | 30    | CMCG | 1395  |
| <b>YUCATAN</b>         |       |      |       |                           | 100   | CMCH | 1395  |
| Merida, Yuc. X-19      | 10    | XBFC | 1050  |                           | 250   | CMCJ | 630   |
|                        | 105   | XEY  | 1000  |                           | 15    | CMCM | 1395  |
| <b>WEST INDIES</b>     |       |      |       |                           | 250   | CMCN | 925   |
| <b>BAHAMA</b>          |       |      |       |                           | 250   | CMCO | 660   |
| Nassau, U-26           | 500   | VPN  | 610   |                           | 1000  | CMCO | 1140  |
| <b>CUBA</b>            |       |      |       | Matanzas W-24             | 30    | CMGB | 1205  |
| Caibarien W-25         | 250   | CMHD | 950   |                           | 30    | CMGC | 820   |
| Camaguey W-26          | 75    | CMJC | 1382  |                           | 50    | CMGF | 987   |
|                        | 20    | CMJE | 856   |                           | 150   | CMGH | 1040  |
|                        | 225   | CMJF | 930   | Pinar del Rio W-22        | 20    | CMBB | 1249  |
|                        | 50    | CMJG | 1050  | Santa Clara W-25          | 200   | CMHI | 1030  |
|                        | 50    | CMJL | 960   | Santiago X-28             | 150   | CMKC | 1034  |
| Cardenas W-24          | 30    | CMGE | 1375  | Tuinucu                   | 250   | CMHC | 790   |
| Ciego de Avila W-26    | 50    | CMJH | 1150  | <b>DOMINICAN REPUBLIC</b> |       |      |       |
|                        | 112   | CMJI | 1335  | Santo Domingo X-31        | 1000  | HIX  | 630   |
|                        |       |      |       | <b>HAITI</b>              |       |      |       |
|                        |       |      |       | Port au Prince X-30       | 1000  | HHK  | 920   |

## TIME CONVERSION TABLE

| Atlantic | Eastern | Central | Mountain | Pacific | Atlantic | Eastern | Central | Mountain | Pacific |
|----------|---------|---------|----------|---------|----------|---------|---------|----------|---------|
| 12:00    | 11:00   | 10:00   | 9:00     | 8:00    | 7:00     | 6:00    | 5:00    | 4:00     | 3:00    |
| 1:00     | 12:00   | 11:00   | 10:00    | 9:00    | 8:00     | 7:00    | 6:00    | 5:00     | 4:00    |
| 2:00     | 1:00    | 12:00   | 11:00    | 10:00   | 9:00     | 8:00    | 7:00    | 6:00     | 5:00    |
| 3:00     | 2:00    | 1:00    | 12:00    | 11:00   | 10:00    | 9:00    | 8:00    | 7:00     | 6:00    |
| 4:00     | 3:00    | 2:00    | 1:00     | 12:00   | 11:00    | 10:00   | 9:00    | 8:00     | 7:00    |
| 5:00     | 4:00    | 3:00    | 2:00     | 1:00    | 12:00    | 11:00   | 10:00   | 9:00     | 8:00    |
| 6:00     | 5:00    | 4:00    | 3:00     | 2:00    |          |         |         |          |         |

|       |  |      |   |      |   |
|-------|--|------|---|------|---|
| CFAC  | 690 Calgary, Alta.<br>Silent.  | CKCO | 890 Ottawa, Ont.  | CMDB | 1395 Havana, Cuba.  |
| CFBO  | 890 St. John, N.B.   | CKCR | 645 Waterloo, Ont.<br>10 a.m.-1 p.m.; 5-10:30 p.m.,<br>EST.                   | CMGB | 1205 Matanzas, Cuba.  |
| CFCA  | 1120 Toronto, Ont.<br>11 a.m.-noon; 5:30-10:30 p.m.,<br>EST.                         | KKCV | 880 Quebec, Que.<br>Silent.   | CMGC | 820 Matanzas, Cuba.   |
| CFCF  | 1030 Montreal, Que.<br>7-11:15 p.m., EST.  | CKFK | 730 Vancouver, B. C.  | CMGE | 1375 Cardenas, Cuba.  |
| CFCH  | 930 North Bay, Ont.<br>11 a.m.-12:30 p.m.; 5-6 p.m.;<br>8-15-9:15 p.m., EST.         | CKGW | 540 Toronto, Ont.<br>10:45 a.m.-11:15 p.m., EST.                              | CMGF | 987 Matanzas, Cuba.   |
| CFCL  | 580 Toronto, Ont.  | CKIK | 1010 Wolfville, N. S.   | CMGH | 1040 Matanzas, Cuba.  |
| CFCN  | 985 Calgary, Alta.<br>11 a.m.-10:30 p.m., MST.                                       | CKLC | 840 Red Deer, Alta.<br>5:30-7:15 p.m., MST.                                   | CMGI | 1150 Colou, Cuba.   |
| CFCO  | 1210 Chatham, Ont.<br>9:15 a.m.-9:30 p.m., EST.                                      | CKMC | 1210 Cobalt, Ont.   | CMHC | 790 Tuinucu, Cuba.  |
| CFCT  | 630 Victoria, B. C.<br>11 a.m.-12:15 p.m.; 7-9 p.m.,<br>PST.                         | CKMO | 730 Vancouver, B. C.  | CMHD | 950 Caibarien, Cuba.  |
| CFCY  | 580 Charlottetown, P. E. I.<br>11 a.m.-12:30 p.m.; 4-5:30 p.m.;<br>7-8:30 p.m., AST. | CKNC | 960 Toronto, Ont.<br>11 a.m.-3 p.m.; 5-11:15 p.m.,<br>EST.                    | CMHI | 1030 Santa Clara, Cuba.<br>11 a.m.-1 p.m.; 8-10 p.m., EST.                |
| CFJC  | 1120 Kamloops, B. C.<br>12:30-2 p.m., PST.   | CKOC | 635 Hamilton, Ont.<br>8 a.m.-10:30 p.m., EST.                                 | CMHJ | 1150 Cienfuegos, Cuba.<br>11 a.m.-2 p.m.; 7-10 p.m., EST.                 |
| CFLC  | 915 Prescott, Ont.<br>Silent.  | CKOK | 540 Windsor, Ont.<br>8 a.m.-mid., EST.  | CMJ  | 1050 Camaguey, Cuba.  |
| CFNB  | 1210 Fredericton, N. B.  | CKOV | 1200 Kelowna, B. C.<br>11 a.m.-1:30 p.m.; 7:30-9 p.m.,<br>PST.                | CMJE | 856 Camaguey, Cuba.   |
| CFQC  | 910 Saskatoon, Sask.   | CKPC | 880 Preston, Ont.<br>8:30-10 p.m., EST.                                       | CMJF | 930 Camaguey, Cuba.   |
| CFRB  | 690 Toronto, Ont.<br>10:30 a.m.-mid., EST.   | CKPR | 890 Ft. William, Ont.<br>5-9 p.m., EST.                                       | CMJG | 1050 Camaguey, Cuba.  |
| CFRC  | 930 Kingston, Ont.   | CKTB | 635 St. Catherines, Ont.<br>Noon-1 p.m.; 6-6:30 p.m., EST.                    | CMJH | 1150 Ciego de Avila, Cuba.<br>10 a.m.-2 p.m.; 6-10 p.m., EST.             |
| CHCK  | 960 Charlottetown, P. E. I.<br>10:45 a.m.-12:30 p.m.; 2-3:30<br>p.m., AST.           | CKUA | 580 Edmonton, Alta.<br>3:30-4:30 p.m., MST.                                   | CMJI | 1335 Ciego de Avila, Cuba.<br>10 a.m.-1:30 p.m.; 6-10 p.m.,<br>EST.       |
| CHGS  | 1120 Summerside, P. E. I.<br>11 a.m.-noon; 5:30-8:15 p.m.,<br>AST.                   | CKWX | 730 Vancouver, B. C.<br>Noon-1:30 p.m.; 5:30-6:30 p.m.;<br>9-11:30 p.m., PST. | CMJL | 960 Camaguey, Cuba.   |
| CHLS  | 730 Vancouver, B. C.<br>Silent.  | CKX  | 930 Brandon, Man.<br>6:45-8:30 p.m., CST.                                     | CMK  | 730 Havana, Cuba.<br>10-noon; 6 p.m.-mid., EST.                           |
| CHMA  | 580 Edmonton, Alta.  | CKY  | 780 Winnipeg, Man.<br>7-8:30 p.m., CST.                                       | CMKC | 1034 Santiago, Cuba.  |
| CHML  | 880 Hamilton, Ont.<br>11 a.m.-12:30 p.m.; 7-8:30 p.m.,<br>EST.                       | CMAB | 1240 Pinar del Rio, Cuba.   | CMKJ | 1300 Guantanamo, Cuba.  |
| CHNS  | 915 Halifax, N. S.<br>7 p.m.-mid., AST.  | CMAF | 660 Havana, Cuba.   | CMO  | 630 Havana, Cuba.   |
| CHRC  | 645 Quebec, Que.<br>Noon-mid., EST.  | CMBC | 665 Havana, Cuba.<br>2-11 p.m., EST.  | CMW  | 1185 Havana, Cuba.<br>10 a.m.-3 p.m., EST.                                |
| CHWC  | 960 Regina, Sask.<br>4-9 p.m., MST.  | CMBD | 965 Havana, Cuba.   | CMX  | 890 Havana, Cuba.<br>11 a.m.-2 p.m.; 8-10 p.m., EST.                      |
| CHWK  | 665 Chilliwack, B. C.<br>Silent.   | CMBG | 1070 Havana, Cuba.  | CNRA | 630 Moncton, N. B.<br>9:30-11 p.m., AST.                                  |
| CHYC  | 730 Montreal, Que.<br>745 Edmonton, Alta.  | CMBI | 1444 Havana, Cuba.  | CNRH | 815 Halifax, N. S.  |
| CJCA  | 11 a.m.-12:30 p.m., MST.   | CMBL | 1444 Havana, Cuba.<br>7-9 p.m., EST.  | CNRO | 600 Ottawa, Ont.<br>8:30-11 p.m., EST.                                    |
| CJCB  | 880 Sydney, N. S.<br>Noon-3 p.m.; 7-11 p.m., AST.                                    | CMBN | 1444 Havana, Cuba.  | CNRV | 1030 Vancouver, B. C.<br>2-3:30; 5:30-8:30 p.m. PST.                      |
| CJ CJ | 690 Calgary, Alta.<br>9:30-10:45 a.m.; 6-7:15 p.m.,<br>MST.                          | CMBO | 1500 Havana, Cuba.  | CPRY | 840 Toronto, Ont.<br>4-4:30 p.m., EST.                                    |
| CJGC  | 595 London, Ont.<br>11 a.m.-12:30 p.m.; 6:30-8:30<br>p.m., EST.                      | CMBR | 1500 Havana, Cuba.  | HHK  | 920 Port au Prince, Haiti.  |
| CJGX  | 630 Yorkton, Sask.<br>6:45-8:30 p.m., CST.   | CMBS | 790 Havana, Cuba.   | HIX  | 630 Santo Domingo.<br>2:10-3:40 p.m., EST.                                |
| CJOC  | 1120 Lethbridge, Alta.   | CMBT | 790 Havana, Cuba.   | KABC | 1420 San Antonio, Tex.<br>8:30 a.m.-2 p.m.; 7-11:30 p.m.,<br>CST.         |
| CJOR  | 1210 Vancouver, B. C.<br>10:30 a.m.-noon; 3-9 p.m., PST.                             | CMBW | 1140 Havana, Cuba.  | KARK | 890 Little Rock, Ark.<br>8-10 a.m.; 5-9 p.m., CST.                        |
| CJRM  | 665 Moose Jaw, Sask.   | CMBY | 1235 Havana, Cuba.  | KASA | 1210 Elk City, Okla.<br>7 a.m.-9 p.m., CST.                               |
| CJRW  | 665 Fleming, Sask.   | CMBZ | 1010 Havana, Cuba.<br>9-10:30 a.m.; 6-7 p.m., EST.                            | KBPS | 1420 Portland, Ore.<br>Silent.  |
| CKAC  | 730 Montreal, Que.<br>1-11 p.m., EST.  | CMC  | 840 Havana, Cuba.   | KBTM | 1200 Paragould, Ark.<br>7:30 a.m.-noon; 4-6:15 p.m.,<br>CST.              |
| CKCD  | 730 Vancouver, B. C.   | CMCA | 1235 Havana, Cuba.  | KCMC | 1420 Texarkana, Ark.<br>8-9 a.m.; 11 a.m.-1:15 p.m.;<br>5-6:30 p.m., CST. |
| CKCI  | 645 Quebec, Que.<br>Silent.  | CMCB | 1070 Havana, Cuba.<br>11 a.m.-1 p.m.; 9 p.m.-mid.,<br>EST.                    | KCRC | 1370 Enid, Okla.<br>11 a.m.-3 p.m., CST.                                  |
| CKCK  | 960 Regina, Sask.<br>10 a.m.-4 p.m.; 9 p.m.-mid.,<br>MST.                            | CMCD | 925 Havana, Cuba.<br>Noon-3 p.m.; 8 p.m.-mid., EST.                           | KCRJ | 1310 Jerome, Ariz.<br>Silent.   |
| CKCL  | 580 Toronto, Ont.<br>5:15-8 p.m., EST.   | CMCF | 890 Havana, Cuba.<br>10 a.m.-1 p.m., EST.                                     | KDB  | 1500 Santa Barbara, Calif.<br>8 a.m.-mid., PST.                           |
|       |  | CMCG | 1395 Havana, Cuba.  | KDFN | 1440 Casper, Wyo.<br>10-11 a.m., MST.                                     |
|       |  | CMCH | 1395 Havana, Cuba.<br>3-7 p.m., EST.  | KDKA | 980 Pittsburgh, Pa.<br>9-9:55 a.m.-mid., EST.                             |
|       |  | CMCJ | 630 Havana, Cuba.   | KDLR | 1210 Devils Lake, N. D.<br>Silent.  |
|       |  | CMCM | 1395 Havana, Cuba.  | KDYL | 1290 Salt Lake City, Utah.<br>6:30 a.m.-1 a.m. next day, MST.             |
|       |  | CMCN | 925 Havana, Cuba.   | KECA | 1430 Los Angeles, Calif.<br>9 a.m.-11 p.m., PST.                          |
|       |  | CMCO | 660 Havana, Cuba.   | KELW | 780 Burbank, Calif.<br>10 a.m.-1 p.m.; 5-8 p.m., PST.                     |
|       |  | CMCQ | 1140 Havana, Cuba.  | KERN | 1200 Bakersfield, Calif.  |
|       |  | CMCR | 1345 Havana, Cuba.  |      |   |
|       |  | CMCU | 1270 Havana, Cuba.  |      |   |
|       |  | CMCW | 1270 Havana, Cuba.  |      |   |
|       |  | CMCY | 1355 Havana, Cuba.  |      |   |

**KEX** 1180 Portland, Ore.  
8 a.m.-noon; 1 p.m.-mid., PST.

**KFAB** 770 Lincoln, Neb.  
9 a.m.-10:30 p.m., CST.

**KFAC** 1300 Los Angeles, Calif.

**KFBB** 1280 Great Falls, Mont.  
9:30 a.m.-1:30 p.m.; 6:30-10 p.m., MST.

**KFBI** 1050 Milford, Kans.  
8-9 a.m., CST.

**KFBK** 1310 Sacramento, Calif.

**KFBL** 1370 Everett, Wash.  
6 a.m.-1 p.m.; 7-9:30 p.m., PST.

**KFDM** 560 Beaumont, Texas.  
Silent.

**KFDY** 550 Brookings, S. D.  
Silent.

**KFEL** 920 Denver, Colo.  
10 a.m.-7:30 p.m., MST.

**KFEQ** 680 St. Joseph, Mo.  
11:30 a.m.-7:45 p.m., CST.

**KFGQ** 1310 Boone, Iowa.

**KFH** 1300 Wichita, Kans.  
8-11 a.m.; 1-7 p.m.; 9-11 p.m., CST.

**KFI** 640 Los Angeles, Calif.  
6:30 a.m.-mid., PST.

**KFIO** 1120 Spokane, Wash.  
8 a.m.-sunset, PST.

**KFIZ** 1420 Fond du Lac, Wis.  
Silent.

**KFJB** 1200 Marshalltown, Iowa.

**KFJF** 1480 Oklahoma City, Okla.  
7 a.m.-1 a.m. next day, CST.

**KFJI** 1210 Klamath Falls, Ore.  
9 a.m.-9 p.m., PST.

**KFJM** 1370 Grand Forks, N. D.  
9 a.m.-9 p.m., CST.

**KFJR** 1300 Portland, Ore.  
Silent.

**KFJZ** 1370 Fort Worth, Texas.  
7:30 a.m.-11 p.m., CST.

**KFKA** 880 Greeley, Colo.  
Silent.

**KFKU** 1220 Lawrence, Kans.  
4-5 p.m., CST.

**KFKX** 1020 Chicago, Ill.

**KFLV** 1410 Rockford, Ill.  
10 a.m.-2:30 p.m.; 6-9:30 p.m., CST.

**KFLX** 1370 Galveston, Texas.

**KFMX** 1250 Northfield, Minn.  
7-8 p.m., CST.

**KFNF** 890 Shenandoah, Iowa.  
8-9:30 a.m.; 10:45 a.m.-noon;  
2-8 p.m., CST.

**KFOR** 1210 Lincoln, Neb.  
8-10:15 a.m.; 1:30-3:30 p.m.;  
4:30-8 p.m., CST.

**KFOX** 1250 Long Beach, Calif.  
6 a.m.-midnight, PST.

**KFPL** 1310 Dublin, Texas.  
Silent.

**KFPM** 1310 Greenville, Texas.  
Silent.

**KFPW** 1210 Fort Smith, Ark.  
10 a.m.-2 p.m.; 5-10:30 p.m.,  
CST.

**KFPY** 1340 Spokane, Wash.  
9 a.m.-mid., PST.

**KFQD** 1230 Anchorage, Alaska.  
5-7 p.m. (Zone 6)

**KFRC** 610 San Francisco, Calif.  
8 a.m.-mid., PST.

**KFRU** 630 Columbia, Mo.  
7:30 a.m.-noon; 4:45-5:30 p.m.,  
CST.

**KFSD** 600 San Diego, Calif.  
8 a.m.-11 p.m., PST.

**KFSG** 1120 Los Angeles, Calif.  
10:30 a.m.-12:45 p.m.; 2:30-4:30  
p.m.; 8:30 p.m.-mid., PST.

**KFUL** 1290 Galveston, Texas.  
1:15-10:45 a.m.; 1-6:30 p.m.;  
9:30-mid., CST.

**KFUO** 550 St. Louis, Mo.  
8:30 a.m.-12:30 p.m.; 3-4:30  
p.m.; 9:15-10:30 p.m., CST.

**KFVD** 1000 Los Angeles, Calif.

**KFVS** 1210 Cape Girardeau, Mo.  
9 a.m.-4 p.m.; 9:30 p.m.-mid.,  
CST.

**KFWB** 950 Los Angeles, Calif.  
8 a.m.-11 p.m., PST.

**KFWF** 1200 St. Louis, Mo.

**KFWI** 930 San Francisco, Calif.  
2:30-6 p.m.; 7:45-9 p.m., PST.

**KFXD** 1200 Nampa, Idaho.  
10 a.m.-6:30 p.m., MST.

**KFXF** 920 Denver, Colo.

**KFXJ** 1310 Grand Junction, Colo.  
8 a.m.-2 p.m.; 6-9 p.m., MST.

**KFXM** 1210 San Bernardino, Calif.  
3-6 p.m., PST.

**KFXR** 1310 Oklahoma City, Okla.

**KFYO** 1310 Lubbock, Texas.

**KFYR** 550 Bismarck, N. D.  
9 a.m.-11 p.m., CST.

**KGA** 1470 Spokane, Wash.  
8 a.m.-mid., PST.

**KGAR** 1370 Tucson, Ariz.  
11 a.m.-11 p.m., MST.

**KGB** 1330 San Diego, Calif.  
8 a.m.-mid., PST.

**KGBU** 900 Ketchikan, Alaska.

**KGBX** 1310 St. Joseph, Mo.  
7:30 a.m.-1 p.m.; 3:30-10 p.m.,  
CST.

**KGBZ** 930 York, Neb.  
9:15-11:15 a.m.; 1:30-3 p.m.;  
4:30-6 p.m.; 7-8:30 p.m., CST.

**KGCA** 1270 Decorah, Iowa.  
10:45 a.m.-noon, CST. (Nov.-  
April).

**KGCR** 1210 Watertown, S. D.  
9 a.m.-2 p.m., CST.

**KGCU** 1240 Mandan, N. D.  
10:45 a.m.-12:30 p.m.; 1:30-4  
p.m.; 7-9 p.m., CST.

**KGCC** 1310 Wolf Point, Mont.  
1-2 p.m., MST.

**KGDA** 1370 Mitchell, S. D.  
Silent.

**KGDE** 1200 Fergus Falls, Minn.  
9 a.m.-9 p.m., CST.

**KGDM** 1100 Stockton, Calif.  
6 a.m.-sunset, PST.

**KGDY** 1200 Huron, S. D.

**KGEG** 1200 Yuma, Colo.  
2-4 p.m., MST. (Oct. 1st).

**KGER** 1360 Long Beach, Calif.  
7 a.m.-midnight, PST.

**KGEW** 1200 Ft. Morgan, Colo.  
11 a.m.-noon, MST.

**KGEZ** 1310 Kalispell, Mont.  
8 a.m.-9 p.m., MST.

**KGFF** 1420 Shawnee, Okla.  
10:15 a.m.-9 p.m., CST.

**KGFG** 1370 Oklahoma City, Okla.

**KGFI** 1500 Corpus Christi, Texas.  
8:30-9:30 a.m.; 11 a.m.-noon;  
8-9 p.m., CST.

**KGFI** 1200 Los Angeles, Calif.  
24 hours daily.

**KGFK** 1500 Moorhead, Minn.  
9 a.m.-9 p.m., CST.

**KGFL** 1370 Santa Fe, N. M.  
Noon-2 p.m., MST.

**KGFV** 1310 Kearney, Neb.  
8 a.m.-noon; 2:30-5 p.m., CST.

**KGFX** 630 Pierre, S. D.

**KGGC** 1420 San Francisco, Calif.

**KGGF** 1010 Coffeyville, Kans.  
1-5 p.m., CST.

**KGGM** 1230 Albuquerque, N. M.  
10 a.m.-2 p.m., MST.

**KGHF** 1320 Pueblo, Colo.  
10:30 a.m.-3:30 p.m., MST.

**KGHI** 1200 Little Rock, Ark.

**KGHL** 950 Billings, Mont.  
10 a.m.-4 p.m.; 5:30-11 p.m.,  
MST.

**KGIR** 1360 Butte, Mont.  
9 a.m.-mid., MST.

**KGIW** 1420 Trinidad, Colo.

**KGIX** 1420 Las Vegas, Nev.  
Silent.

**KGIZ** 1500 Grant City, Mo.

**KGKB** 1500 Tyler, Texas.  
9:45 a.m.-2 p.m.; 7-9:30 p.m.,  
CST.

**KGKL** 1370 San Angelo, Texas.  
8:45 a.m.-2 p.m.; 7-9:30 p.m.,  
CST.

**KGKO** 570 Wichita Falls, Texas.

**KGKX** 1420 Lewiston, Idaho.

**KGKY** 1500 Scottsbluff, Neb.  
10 a.m.-1:30 p.m., MST.

**KGMB** 1320 Honolulu, Hawaii.  
11 a.m.-noon; 5:45-9:30 p.m.  
(Zone 5)

**KGNF** 1430 North Platte, Neb.  
10:30 a.m.-noon; 2-4 p.m., MST.

**KGNO** 1210 Dodge City, Kans.  
2-3 p.m., MST.

**KGO** 790 San Francisco, Calif.  
8 a.m.-mid., PST.

**KGRS** 1410 Amarillo, Texas.  
6-10 a.m.; 11 a.m.-3 p.m.; 5-7:30  
p.m.; 10 p.m.-mid., CST.

**KGU** 750 Honolulu, Hawaii.  
9 a.m.-noon; 3:15 p.m.-10.  
(Zone 5)

**KGVO** 1200 Missoula, Mont.  
10 a.m.-6 p.m., MST.

**KGW** 620 Portland, Ore.  
8 a.m.-mid., PST.

**KGY** 1210 Olympia, Wash.  
Silent.

**KHJ** 900 Los Angeles, Calif.  
8 a.m.-mid., PST.

**KHQ** 590 Spokane, Wash.  
9 a.m.-mid., PST.

**KICA** 1370 Clovis, N. M.

**KICK** 1420 Red Oak, Iowa.

**KID** 1320 Idaho Falls, Idaho.  
7 a.m.-10 p.m., MST.

**KIDO** 1350 Boise, Idaho.  
9 a.m.-4 p.m., MST.

**KIDW** 1420 Lamar, Colo.

**KIT** 1310 Yakima, Wash.  
9 a.m.-2 p.m.; 6:45-10:30 p.m.,  
PST.

**KJBS** 1070 San Francisco, Calif.  
Mid. to local sunset, PST.

**KJR** 970 Seattle, Wash.  
8 a.m.-mid., PST.

**KLCN** 1290 Blytheville, Ark.

**KLO** 1400 Ogden, Utah.  
9 a.m.-10:30 p.m., MST.

**KLPM** 1240 Minot, N. D.  
9-11:45 a.m.; 1:30-2:30 p.m.;  
5-8 p.m., CST.

**KLRA** 1390 Little Rock, Ark.  
8-11 a.m.; 1-5 p.m.; 6:30-11  
p.m., CST.

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| KLS  | 1440 Oakland, Calif.<br>10 a.m.-5 p.m. PST.   | KQV  | 1380 Pittsburgh, Pa.<br>11 a.m.-8:30 p.m., EST.                                      | KUSD | 890 Vermillion, S. D.<br>Silent.   |
| KLX  | 880 Oakland, Calif.<br>Noon-11 p.m., PST.   | KQW  | 1010 San Jose, Calif.<br>10:15 a.m.-12:30 p.m.; 7:30-9:30 p.m., PST.                 | KVI  | 570 Tacoma, Wash.<br>8 a.m.-mid., PST.   |
| KLZ  | 560 Denvy 8 Colo.<br>8 a.m.-11:30 p.m., MST.  | KRE  | 1370 Berkeley, Calif.<br>10 a.m.-2 p.m.; 4-6 p.m.; 6:45-10:45 p.m., PST.             | KVL  | 1370 Seattle, Wash.  |
| KMA  | 930 Shenandoah, Iowa.<br>8:9-15 a.m.; 11:15 a.m.-1:30 p.m.; 3-4:30 p.m.; 6-7 p.m.; 8:30-10 p.m., CST. | KREG | 1500 Santa Ana, Calif.<br>9:30 a.m.-12:30 p.m.; 7:30-9:30 p.m., PST.                 | KVOA | 1260 Tucson, Ariz.   |
| KMAC | 1370 San Antonio, Texas.<br>7-9 a.m.; 11 a.m.-12:30 p.m.; 2-4 p.m.; 6-8 p.m.; 10 p.m.-mid., CST.      | KRGV | 1260 Harlingen, Texas.<br>8-9:20 a.m.; 10-11 a.m.; 12:30-2 p.m.; 7-9 p.m., CST.      | KVOO | 1140 Tulsa, Okla.<br>9 a.m.-8:15 p.m., CST.                                    |
| KMBC | 950 Kansas City, Mo.<br>6:15 a.m.-mid., CST.  | KRKD | 1120 Los Angeles, Calif.<br>6-10:30 a.m.; 12:15-2:30 p.m.; 4:30-6:30 p.m., PST.      | KVOR | 1270 Colorado Springs, Colo.<br>8 a.m.-10 p.m., MST.                           |
| KMED | 1310 Medford, Ore.<br>8 a.m.-9:30 p.m., PST.  | KRLD | 1040 Dallas, Texas.<br>8:30-11 a.m.; 3-6 p.m.; 7:45-9:15 p.m.; 10:30 p.m.-mid., CST. | KVOS | 1200 Bellingham, Wash.   |
| KMJ  | 580 Fresno, Calif.<br>8:30 a.m.-11 p.m., PST.   | KRMD | 1310 Shreveport, La.<br>7 a.m.-1 p.m.; 4-7 p.m., CST.                                | KWCR | 1420 Cedar Rapids, Iowa.<br>6:30 a.m.-mid., CST.                               |
| KMLB | 1200 Monroe, La.  | KROW | 930 Oakland, Calif.<br>8 a.m.-2:30 p.m.; 6-11 p.m., PST.                             | KWEA | 1210 Shreveport, La.   |
| KMMJ | 740 Clay Center, Neb.<br>7:30-9:45 a.m.; 11 a.m.-noon; 1-4:30 p.m., CST.                              | KRSC | 1120 Seattle, Wash.<br>Sunrise to local sunset, PST.                                 | KWG  | 1200 Stockton, Calif.<br>8:30 a.m.-11 p.m., PST.                               |
| KMO  | 1330 Tacoma, Wash.<br>7 a.m.-6 p.m., PST.   | KSAC | 580 Manhattan, Kans.<br>Silent.  | KWJ  | 1060 Portland, Ore.  |
| KMOX | 1090 St. Louis, Mo.<br>6:45 a.m.-1 a.m. next day, CST.  | KSCJ | 1330 Sioux City, Iowa.<br>7:30 a.m.-11 p.m., CST.                                    | KWK  | 1350 St. Louis, Mo.<br>6:55 a.m.-11 p.m., CST.                                 |
| KMPC | 710 Beverly Hills, Calif.   | KSD  | 550 St. Louis, Mo.<br>12:30-3 p.m.; 4:30-9:15 p.m., CST.                             | KWK  | 1370 Kansas City, Mo.  |
| KMTR | 570 Hollywood, Calif.   | KSEI | 890 Pocatello, Idaho.<br>10 a.m.-11 p.m., MST.                                       | KWKH | 850 Shreveport, La.<br>7:45 p.m.-mid., CST.                                    |
| KNOW | 1500 Austin, Texas.<br>7:30-10:30 a.m.; noon-3 p.m.; 5-8 p.m., CST.                                   | KSL  | 1130 Salt Lake City, Utah.<br>8 a.m.-mid., MST.                                      | KWLC | 1270 Decorah, Iowa.<br>9:20-10:30 a.m., CST.                                   |
| KNX  | 1050 Hollywood, Calif.<br>6:30 a.m.-10:30 p.m., PST.  | KSO  | 1380 Clarinda, Iowa.   | KWSC | 1230 Pullman, Wash.<br>Silent.   |
| KOA  | 830 Denver, Colo.<br>8:30 a.m.-mid., MST.   | KSOO | 1110 Sioux Falls, S. D.<br>9 a.m.-7:30 p.m.; 9:30 p.m.-mid., CST.                    | KWWG | 1260 Brownsville, Texas.   |
| KOAC | 550 Corvallis, Ore.<br>Silent.  | KSTP | 1460 St. Paul, Minn.<br>8 a.m.-mid., CST.  | KXA  | 760 Seattle, Wash.<br>7 a.m.-sundown; 9 p.m.-mid., PST.                        |
| KOB  | 1180 Albuquerque, N. M.<br>7 a.m.-9 p.m., MST.  | KTAB | 560 San Francisco, Calif.<br>8:30 a.m.-mid., PST.                                    | KXL  | 1420 Portland, Ore.<br>8 a.m.-mid., PST.                                       |
| KOCW | 1400 Chickasha, Okla.   | KTAR | 620 Phoenix, Ariz.<br>8 a.m.-11 p.m., MST.   | KXO  | 1500 El Centro, Calif.   |
| KOH  | 1380 Reno, Nev.<br>8 a.m.-9 p.m., PST.  | KTAT | 1240 Ft. Worth, Texas.   | KXRO | 1310 Aberdeen, Wash.<br>10 a.m.-7 p.m., PST.                                   |
| KOIL | 1260 Council Bluffs, Iowa.<br>8:15 a.m.-1 a.m. next day, CST.   | KTBR | 1300 Portland, Ore.  | KXYZ | 1420 Houston, Texas.<br>8:30-10:30 a.m.; 11 a.m.-1:15 p.m.; 6-10:30 p.m., CST. |
| KOIN | 940 Portland, Ore.<br>8 a.m.-mid., PST.   | KTBS | 1450 Shreveport, La.<br>6 a.m.-mid., CST.  | KYA  | 1230 San Francisco, Calif.<br>8:45 a.m.-11 p.m., PST.                          |
| KOL  | 1270 Seattle, Wash.<br>8 a.m.-mid., PST.  | KTFI | 1240 Twin Falls, Idaho.<br>10 a.m.-11 p.m., MST.                                     | KYW  | 1020 Chicago, Ill.<br>8 a.m.-1 a.m. next day, CST.                             |
| KOMO | 920 Seattle, Wash.<br>8 a.m.-11 p.m., PST.  | KTHS | 1040 Hot Springs, Ark.<br>11 a.m.-3 p.m.; 6:15-7:45 p.m.; 9:15-10:30 p.m., CST.      | NAA  | 690 Arlington, Va.   |
| KONO | 1370 San Antonio, Texas.<br>9-11 a.m.; 12:30-2 p.m.; 4-6 p.m.; 8-10 p.m., CST.                        | KTLC | 1310 Houston, Texas.<br>8 a.m.-1 p.m.; 6-11 p.m., CST.                               | RUS  | 664 Salvador.  |
| KOOS | 1370 Marshfield, Ore.<br>Silent.  | KTM  | 780 Los Angeles, Calif.<br>7-10 a.m.; 1-5 p.m.; 8 p.m.-4 a.m., PST.                  | TGW  | 570 Guatamala.   |
| KORE | 1420 Eugene, Ore.<br>10 a.m.-1:30 p.m.; 6-9 p.m., PST.  | KTRH | 1120 Houston, Texas.<br>8-11 a.m.; noon-3:30 p.m.; 5-11:30 p.m., CST.                | TICR | 911 San Jose, C. R.  |
| KOY  | 1390 Phoenix, Ariz.<br>9:30 a.m.-9 p.m., MST.   | KTSA | 1290 San Antonio, Texas.<br>7:30-9 a.m.; 10:45 a.m.-1 p.m.; 6:30-9:30 p.m., CST.     | VAS  | 685 Glace Bay, N. S.   |
| KPCB | 650 Seattle, Wash.<br>6:30 a.m.-8 p.m.; 10 p.m., 4 a.m., PST.   | KTSM | 1310 El Paso, Texas.   | VCX  | 690 Halifax, N. S.   |
| KPJM | 1500 Prescott, Ariz.  | KTW  | 1270 Seattle, Wash.  | VOAS | 810 St. Johns, N. F.<br>Silent.  |
| KPO  | 680 San Francisco, Calif.<br>8 a.m.-mid., PST.  | KUJ  | 1320 Walla Walla, Wash.<br>7:45 a.m.-local sunset, PST.                              | VOGT | 893 Wabana, N. F.<br>9 p.m.-10 (Zone 19)                                       |
| KPOF | 880 Denver, Colo.<br>7:30-9 a.m.; 2:30-4:30 p.m.; 7:30-9 p.m., MST.                                   | KUMA | 1420 Yuma, Ariz.<br>6-9 p.m., MST.   | VONA | 950 St. Johns, N. F.   |
| KPPC | 1210 Pasadena, Calif.<br>9:30 a.m.-12:30 p.m.; 7:30-9 p.m., PST.                                      | KUOA | 1390 Fayetteville, Ark.<br>7-8 a.m.; 11 a.m.-1 p.m.; 5-6:30 p.m., CST.               | VOWR | 750 St. Johns, N. F.<br>11 a.m.-12:30 p.m.; 6:30-7:50 p.m., Nfld. time.        |
| KPQ  | 1500 Wenatchee, Wash.<br>9 a.m.-1:15 p.m., PST.   |      |  | VPN  | 610 Nassau, B.I.   |
| KPRC | 920 Houston, Texas.<br>8 a.m.-mid., CST.  |      |  | WAAB | 1410 Boston, Mass.<br>10 a.m.-11:30 p.m., EST.                                 |

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| WAIU 640 Columbus, Ohio.<br>8 a.m.-local sunset, EST.                                      | WCAT 1200 Rapid City, S. D.   | WDZ 1070 Tuscola, Ill.<br>9 a.m.-5 p.m., CST.   |
| WALR 1210 Zanesville, Ohio.<br>10 a.m.-10 p.m., EST.                                       | WCAU 1170 Philadelphia, Pa.<br>9 a.m.-1 a.m., EST.  | WEAF 660 New York City.<br>8 a.m.-1 a.m., EST.  |
| WAPI 1140 Birmingham, Ala.<br>9 a.m.-7:45 p.m.; 8:15 p.m.-mid., CST.                       | WCAZ 1200 Burlington, Vt.<br>1070 Carthage, Ill.<br>Silent.   | WEAI 1270 Ithaca, N. Y.<br>Variable.  |
| WASH 1270 Grand Rapids, Mich.<br>9 a.m.-11 p.m., CST.                                      | WCBA 1440 Allentown, Pa.<br>10 a.m.-noon; 5:30-11:30 p.m., EST.                                     | WEAN 780 Providence, R. I.<br>8 a.m.-1 a.m., EST.   |
| WAWZ 1350 Zarephath, N. J.<br>6-9 a.m.; 11 a.m.-12:30 p.m.; 3-4:30 p.m.; 7:30-9 p.m., EST. | WCBD 1080 Zion, Ill.<br>6-11 a.m.; 3:30-local sunset, CST.  | WEOA 570 Columbus, Ohio.<br>Silent.   |
| WBAA 1400 Lafayette, Ind.<br>Silent.   | WCBM 1370 Baltimore, Md.<br>9:30 a.m.-11 p.m., EST.   | WECB 1290 Superior, Wis.<br>9 a.m.-10:45 p.m., CST.   |
| WBAK 1430 Harrisburg, Pa.<br>Silent.   | WCBS 1210 Springfield, Ill.<br>10:45 a.m.-2 p.m.; 7-7:30 p.m., CST.                                 | WEBQ 1210 Harrisburg, Ill.<br>6-9 a.m.; 4-9:30 p.m., CST  |
| WBAL 1060 Baltimore, Md.<br>7 a.m.-mid., EST.  | WCCO 810 Minneapolis, Minn.<br>9 a.m.-11 p.m., CST.   | WEBR 1310 Buffalo, N. Y.<br>10 a.m.-1 a.m., EST.  |
| WBAP 800 Fort Worth, Texas.<br>10 a.m.-noon; 3-6 p.m.; 9:30-mid., CST.                     | WCDA 1350 New York City.<br>970 Chicago, Ill.<br>8 a.m.-mid., CST.                                  | WEDC 1210 Chicago, Ill.<br>590 Boston, Mass.  |
| WBAX 1210 Wilkes Barré, Pa.<br>1-11 p.m., EST.   | WCGU 1400 Brooklyn, N. Y.<br>10:30 a.m.-noon; 7-9 p.m., EST.  | WEEI 10 a.m.-11:30 p.m., EST.   |
| WBBC 1400 Brooklyn, N. Y.  | WCKY 1410 Covington, Ky.<br>11 a.m.-mid., CST.  | WEUU 830 Reading, Pa.<br>10 a.m.-7:30 p.m., EST.  |
| WBBL 1210 Richmond, Va.  | WCLO 1200 Janesville, Wis.<br>10 a.m.-noon, CST.  | WEHC 1350 Emory, Va.<br>8:30-9 a.m.; 11 a.m.-noon; 2:30-3:30 p.m., EST.                         |
| WBBM 770 Chicago, Ill.<br>8:45 a.m.-10 p.m.; 11:30 p.m.-2 a.m., CST.                       | WCLS 1310 Joliet, Ill.<br>9 a.m.-2 p.m.; 6-8 p.m., CST.   | WEHS 1420 Cicero, Ill.<br>4-8 p.m., CST.  |
| WBBR 1300 Brooklyn, N. Y.<br>8-11 a.m.; 3-8 p.m., EST.                                     | WCMA 1400 Culver, Ind.<br>6:30-9:30 a.m.; 10:30 p.m.-mid., CST.                                     | WELL 1420 Battle Creek, Mich.<br>WENC 1420 Americus, Ga.<br>9 a.m.-1 p.m.; 5-local sunset, EST. |
| WBBZ 1200 Ponca City, Okla.<br>7 a.m.-7 p.m., CST.   | WCOA 1340 Pensacola, Fla.<br>10:30 a.m.-3 p.m., CST.  | WENR 870 Chicago, Ill.<br>8 a.m.-12:30 p.m.; 3:30-6 p.m.; 8 p.m.-1 a.m., CST.                   |
| WBCM 1410 Bay City, Mich.  | WCOC 880 Meridian, Miss.<br>9:30 a.m.-3:30 p.m.; 5-11 p.m., CST.                                    | WERE 1420 Erie, Pa.<br>11 a.m.-2:30 p.m.; 5:30-10:30 p.m., EST.                                 |
| WBEN 900 Buffalo, N. Y.<br>9 a.m.-mid., EST.   | WCOD 1200 Harrisburg, Pa.<br>2nd and 4th Sundays, 11 a.m.-noon; other Sundays 12:15-7:15 p.m., EST. | WESG 1370 Glens Falls, N. Y.  |
| WBEO 1310 Marquette, Mich.   | WCRW 1210 Chicago, Ill.<br>11:30 a.m.-1:30 p.m.; 6-7 p.m.; 9-10 p.m., CST.                          | WEVD 1300 New York City.<br>11 a.m.-3 p.m.; 8-9 p.m.; 10-11 p.m., EST.                          |
| WBHS 1200 Huntsville, Ala.   | WCSC 1360 Charleston, S. C.   | WEW 760 St. Louis, Mo.<br>9:30 a.m.-5:30 p.m., CST.   |
| WBIG 1440 Greensboro, N. C.<br>9:45 a.m.-10 p.m., EST.                                     | WCSS 940 Portland, Maine.<br>10:30 a.m.-noon; 1-11:25 p.m., EST.                                    | WEXL 1310 Royal Oak, Mich.<br>9 a.m.-9 p.m., EST.   |
| WBMS 1450 Hackensack, N. J.<br>Noon-2 p.m.; 5:45-7:30 p.m., EST.                           | WDAE 1220 Tampa, Fla.<br>8 a.m.-mid., EST.  | WFAA 800 Dallas, Texas.<br>7:30-10 a.m.; noon-3 p.m.; 6-9:30 p.m., CST.                         |
| WBXN 1350 New York City.<br>12:30-3 p.m.; 4:30-6 p.m., EST.                                | WDAF 610 Kansas City, Mo.<br>8 a.m.-11 p.m., CST.   | WFBF 1300 New York City.<br>WFBM 1200 South Bend, Ind.  |
| WBOQ 860 New York City   | WDAG 1410 Amarillo, Texas.<br>10-11 a.m.; 3-5 p.m.; 7:30-10 p.m., CST.                              | WFAN 610 Philadelphia, Pa.<br>9 a.m.-mid., EST.   |
| WBOW 1310 Terre Haute, Ind.<br>9 a.m.-11 p.m., CST.  | WDAH 1310 El Paso, Texas.   | WFAS 1210 White Plains, N. Y.<br>6-9 p.m., EST.   |
| WBRC 930 Birmingham, Ala.<br>10 a.m.-11:30 p.m., CST.                                      | WDAS 1370 Philadelphia, Pa.<br>9 a.m.-10:30 p.m., EST.  | WFBF 1200 Cincinnati, Ohio.<br>8 a.m.-11 p.m., EST.   |
| WBRE 1310 Wilkes Barre, Pa.  | WDAY 940 Fargo, N. D.<br>8 a.m.-11 p.m., CST.   | WFBG 1310 Altoona, Pa.<br>10:30 a.m.-12:30 p.m.; 2:30-4:30 p.m.; 6:15-11 p.m., EST.             |
| WBSS 920 Babson Park, Mass.<br>Silent.   | WDBJ 930 Roanoke, Va.<br>8 a.m.-mid., EST.  | WFBL 1360 Syracuse, N. Y.<br>8 a.m.-mid., EST.  |
| WBT 1080 Charlotte, N. C.<br>8 a.m.-mid., EST.   | WDBO 580 Orlando, Fla.<br>7 a.m.-mid., EST.   | WFBM 1230 Indianapolis, Ind.<br>7:30-10:30 a.m.; 1 p.m.-mid., CST.                              |
| WBTM 1370 Danville, Va.  | WDEL 1120 Wilmington, Del.<br>10:30 a.m.-1:30 p.m.; 6-10 p.m., EST.                                 | WFBR 1270 Baltimore, Md.<br>9 a.m.-mid., EST.   |
| WBZ 990 Boston, Mass.<br>10 a.m.-mid., EST.  | WDEV 550 Waterbury, Vt.<br>10:30 a.m.-noon, EST.  | WFDF 1310 Flint, Mich.<br>6-11 p.m., CST.   |
| WBZA 990 Springfield, Mass.<br>10 a.m.-mid., EST.  | WDGY 1180 Minneapolis, Minn.<br>6:30 a.m.-8:15 p.m., CST.   | WFDV 1500 Rome, Ga.<br>9 a.m.-3 p.m.; 6-9 p.m., CST.  |
| WCAC 600 Storrs, Conn.<br>Silent.  | WDOD 1280 Chattanooga, Tenn.<br>7 a.m.-11 p.m., CST.  | WFDW 1420 Anniston, Ala.<br>10 a.m.-12:30 p.m.; 5-10 p.m., CST.                                 |
| WCAD 1220 Canton, N. Y.<br>Silent.   | WDRC 1330 Hartford, Conn.<br>10 a.m.-mid., EST.   | WFEE 1430 Manchester, N. H.<br>9 a.m.-11 p.m., EST.   |
| WCAE 1220 Pittsburgh, Pa.<br>10:30 a.m.-mid., EST.   | WDSU 1250 New Orleans, La.<br>7 a.m.-11:45 p.m., CST.   | WFI 560 Philadelphia, Pa.<br>1-2 p.m.; 4:30-6 p.m.; 9-mid., EST                                 |
| WCAH 1430 Columbus, Ohio.<br>8 a.m.-mid., EST.   |   |   |
| WCAJ 590 Lincoln, Neb.<br>8:30-9 a.m.; 11 a.m.-12:30 p.m.; 6-7 p.m., CST.                  |   |   |
| WCAL 1250 Northfield, Minn.<br>8:15-9:30 a.m.; 3-4 p.m., CST.                              |   |   |
| WCAM 1280 Camden, N. J.<br>10:15 a.m.-12:30 p.m.; 3-5 p.m., EST.                           |   |   |
| WCAO 600 Baltimore, Md.<br>9 a.m.-mid., EST.   |   |   |
| WCAP 1280 Asbury Park, N. J.<br>9-10:15 a.m.; 8-9 p.m., EST.                               |   |   |



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| <b>WFIW</b> 940 Hopkinsville, Ky.<br>7 a.m.-noon; 12:30-4 p.m.; 5-<br>6 p.m., CST.                         | <b>WHFC</b> 1420 Cicero, Ill.<br>8 a.m.-4 p.m.; 8 p.m.-1 a.m.<br>CST.                   | <b>WJDX</b> 1270 Jackson, Miss.<br>12:30-10 p.m., CST.                                 |
| <b>WFLA</b> 620 Clearwater, Fla.<br>8 a.m.-mid., EST.  | <b>WHIS</b> 1410 Bluefield, W. Va.<br>9-9:40 a.m.; noon-3 p.m., EST.                    | <b>WJED</b> 600 Indianapolis, Ind.   |
| <b>WFOX</b> 1400 Brooklyn, N. Y.   | <b>WHK</b> 1390 Cleveland, Ohio.<br>8 a.m.-mid., EST.                                   | <b>WJEF</b> 1210 Hagerstown, Md.   |
| <b>WGAL</b> 1310 Lancaster, Pa.<br>8-9:30 a.m., EST.   | <b>WHN</b> 1010 New York City.  | <b>WJJD</b> 1130 Chicago, Ill.<br>6 a.m.-8:30 p.m., CST.                               |
| <b>WGAR</b> 1450 Cleveland, Ohio.<br>7 a.m.-1 a.m., EST.   | <b>WHO</b> 1000 Des Moines, Iowa.   | <b>WJKS</b> 1360 Gary, Ind.<br>10:30-11:45 a.m.; 1-6:15 p.m.;<br>8-11 p.m., CST.       |
| <b>WGBB</b> 1210 Freeport, N. Y.   | <b>WHOM</b> 1450 Jersey City, N. J.<br>10:30 a.m.-noon; 2-5:45 p.m.,<br>9:30-mid., EST. | <b>WJMS</b> 1420 Ironwood, Mich.<br>9 a.m.-7:45 p.m., CST.                             |
| <b>WGBF</b> 630 Evansville, Ind.<br>9:30 a.m.-4 p.m.; 6-11 p.m.,<br>CST.                                   | <b>WHP</b> 1430 Harrisburg, Pa.<br>9 a.m.-1 a.m., EST.                                  | <b>WJR</b> 750 Detroit, Mich.<br>8 a.m.-1 a.m., EST.                                   |
| <b>WGBI</b> 880 Scranton, Pa.<br>12:01-2 a.m., EST.  | <b>WIAS</b> 1310 Ottumwa, Iowa.<br>10 a.m.-2:30 p.m.; 5-7 p.m.,<br>CST.                 | <b>WJSV</b> 1460 Washington, D. C.<br>7:30 a.m.-1 a.m., EST.                           |
| <b>WGCM</b> 1210 Gulfport, Miss.<br>11 a.m.-12:30 p.m.; 3-6 p.m.,<br>CST.                                  | <b>WIBA</b> 1280 Madison, Wis.<br>9 a.m.-11:30 p.m., CST.                               | <b>WJTL</b> 1370 Atlanta, Ga.  |
| <b>WGCP</b> 1250 Newark, N. J.<br>7:30-10 a.m.; 12:30-6:30 p.m.;<br>9-mid., EST.                           | <b>WIBG</b> 930 - Glenside, Pa.<br>Daybreak to sunset, EST.                             | <b>WJW</b> 1210 Mansfield, Ohio.<br>10:15 a.m.-noon; 6:30-9 p.m.,<br>EST.              |
| <b>WGES</b> 1360 Chicago, Ill.<br>8-10:30 a.m.; 11:45 a.m.-1 p.m.;<br>6:15-8 p.m.; 11 p.m.-2 a.m.,<br>CST. | <b>WIBM</b> 1370 Jackson, Mich.<br>9 a.m.-2:30 p.m., CST.                               | <b>WJZ</b> 760 New York City.<br>8 a.m.-1 a.m., EST.                                   |
| <b>WGH</b> 1310 Newport News, Va.<br>10 a.m.-5 p.m.; 6-10 p.m., EST.                                       | <b>WIBO</b> 560 Chicago, Ill.<br>7:30-10 a.m.; 12:30-7 p.m., CST.                       | <b>WKAO</b> 1240 San Juan, P. R.   |
| <b>WGL</b> 1370 Fort Wayne, Ind.<br>1:30 p.m.-mid., CST.   | <b>WIBU</b> 1210 Poynette, Wis.   | <b>WKAR</b> 1040 East Lansing, Mich.<br>Silent.  |
| <b>WGN</b> 720 Chicago, Ill.   | <b>WIBW</b> 580 Topeka, Kans.<br>8 a.m.-11 p.m., CST.                                   | <b>WKAV</b> 1310 Laconia, N. H.<br>9 a.m.-1 p.m.; 3-8 p.m., EST.                       |
| <b>WGR</b> 550 Buffalo, N. Y.<br>9 a.m.-1 a.m., EST.   | <b>WIBX</b> 1200 Utica, N. Y.   | <b>WKBB</b> 1310 Joliet, Ill.<br>2-6 p.m., CST.  |
| <b>WGST</b> 890 Atlanta, Ga.<br>7 a.m.-mid., EST.  | <b>WICC</b> 600 Bridgeport, Conn.<br>9:30 a.m.-11:30 p.m., EST.                         | <b>WKBC</b> 1310 Birmingham, Ala.  |
| <b>WGY</b> 790 Schenectady, N. Y.<br>8 a.m.-1 a.m., EST.   | <b>WIL</b> 1200 St. Louis, Mo.<br>11 a.m.-6 p.m.; 8 p.m.-mid.,<br>CST.                  | <b>WKBF</b> 1400 Indianapolis, Ind.<br>9:30 a.m.-10:30 p.m., CST.                      |
| <b>WHA</b> 940 Madison, Wis.<br>Silent.  | <b>WILL</b> 890 Urbana, Ill.<br>9:30-10:30 a.m., CST.                                   | <b>WKBH</b> 1380 LaCrosse, Wis.<br>9 a.m.-10 p.m., CST.                                |
| <b>WHAD</b> 1120 Milwaukee, Wis.<br>9:30-10:15 a.m.; 4-5 p.m., CST.  | <b>WILM</b> 1420 Wilmington, Del.<br>9 a.m.-noon; 6-10 p.m., EST.                       | <b>WKBI</b> 1420 Cicero, Ill.<br>Silent.   |
| <b>WHAM</b> 1150 Rochester, N. Y.<br>11 a.m.-mid., EST.  | <b>WINS</b> 1180 New York City.<br>8 a.m.-10:15 p.m., EST.                              | <b>WKBN</b> 570 Youngstown, Ohio.<br>9 a.m.-mid., EST.                                 |
| <b>WHAS</b> 820 Louisville, Ky.<br>7 a.m.-mid., CST.   | <b>WIOD</b> 1300 Miami, Fla.  | <b>WKBS</b> 1310 Galesburg, Ill.   |
| <b>WHAT</b> 1310 Philadelphia, Pa.   | <b>WIP</b> 610 Philadelphia, Pa.<br>9 a.m.-mid., EST.                                   | <b>WKBV</b> 1500 Connersville, Ind.<br>Silent.   |
| <b>WHAZ</b> 1300 Troy, N. Y.<br>Silent.  | <b>WIS</b> 1010 Columbia, S. C.<br>10 a.m.-noon; 5:30-11 p.m.,<br>EST.                  | <b>WKBW</b> 1480 Buffalo, N. Y.<br>9:30 a.m.-11 p.m., EST.                             |
| <b>WHB</b> 860 Kansas City, Mo.<br>6 a.m.-6:30 p.m., CST.  | <b>WISN</b> 1120 Milwaukee, Wis.<br>8:30 a.m.-4 p.m.; 5 p.m.-mid.,<br>CST.              | <b>WKCB</b> 1500 Ludington, Mich.<br>Silent.   |
| <b>WHBC</b> 1260 Canton, Ohio.<br>2:15-3 p.m., EST.  | <b>WJAC</b> 1310 Johnstown, Pa.<br>4:30-6:15 p.m., EST.                                 | <b>WKCF</b> 1210 Greenville, Miss.   |
| <b>WHBD</b> 1370 Mt. Orab, Ohio.<br>7-11 a.m.; noon-5 p.m.; 6-9<br>p.m., EST.                              | <b>WJAG</b> 1060 Norfolk, Neb.<br>10:15 a.m.-3:30 p.m., CST.                            | <b>WKJC</b> 1200 Lancaster, Pa.<br>Occasional church services.                         |
| <b>WHBF</b> 1210 Rock Island, Ill.<br>Silent.  | <b>WJAK</b> 1310 Elkhart, Ind.<br>4:30 p.m., mid., CST.                                 | <b>WKRC</b> 550 Cincinnati, Ohio.<br>6:45 a.m.-mid., EST.                              |
| <b>WHBL</b> 1410 Sheboygan, Wis.<br>9-10 a.m., CST.  | <b>WJAR</b> 890 Providence, R. I.<br>11 a.m.-mid., EST.                                 | <b>WKY</b> 900 Oklahoma City, Okla.<br>8 a.m.-11 p.m., CST.                            |
| <b>WHBQ</b> 1370 Memphis, Tenn.<br>10:30 a.m.-9 p.m., CST.   | <b>WJAS</b> 1290 Pittsburgh, Pa.<br>9 a.m.-11:30 p.m., EST.                             | <b>WKZO</b> 590 Kalamazoo, Mich.<br>9 a.m.-8:15 p.m., CST.                             |
| <b>WHBU</b> 1310 Anderson, Ind.<br>8:15 a.m.-9 p.m., CST.  | <b>WJAX</b> 900 Jacksonville, Fla.<br>9:15-10:15 a.m., EST.                             | <b>WLAC</b> 1470 Nashville, Tenn.<br>7 a.m.-11 p.m., CST.                              |
| <b>WHBY</b> 1200 Green Bay, Wis.<br>10 a.m.-9 p.m., CST.   | <b>WJAY</b> 610 Cleveland, Ohio.  | <b>WLAP</b> 1200 Louisville, Ky.<br>8 a.m.-11 p.m., CST.                               |
| <b>WHDF</b> 1370 Calumet, Mich.<br>10:30 a.m.-3 p.m.; 5-8:15 p.m.,<br>CST.                                 | <b>WJBC</b> 1200 LaSalle, Ill.<br>9:45-10:45 a.m., CST.                                 | <b>WLB</b> 1250 Minneapolis, Minn.<br>Silent.  |
| <b>WHDH</b> 830 Boston, Mass.  | <b>WJBI</b> 1210 Red Bank, N. J.<br>Silent.   | <b>WLBC</b> 1310 Muncie, Ind.<br>7 a.m.-4:30 p.m., CST.                                |
| <b>WHDL</b> 1420 Tupper Lake, N. Y.<br>11:15 a.m.-2:15 p.m., EST.  | <b>WJBK</b> 1370 Detroit, Mich.<br>7 a.m.-11 p.m., EST.                                 | <b>WLBG</b> 1420 Kansas City, Kans.<br>9 a.m.-10 p.m., CST.                            |
| <b>WHEB</b> 740 Portsmouth, N. H.<br>10 a.m.-noon; 2-5 p.m., EST.  | <b>WJBL</b> 1200 Decatur, Ill.<br>8:45-9:45 a.m.; 10:45 a.m.-noon;<br>6-9:30 p.m., CST. | <b>WLBL</b> 900 Stevens Point, Wis.<br>Silent.   |
| <b>WHEC</b> 1430 Rochester, N. Y.<br>8 a.m.-mid., EST.   | <b>WJBO</b> 1420 New Orleans, La.   | <b>WLBW</b> 1260 Oil City, Pa.<br>10 a.m.-1 a.m., EST.                                 |
| <b>WHEF</b> 1500 Kosciusko, Miss.  | <b>WJBU</b> 1210 Lewisburg, Pa.<br>8 a.m.-1 p.m., EST.                                  | <b>WLBZ</b> 620 Bangor, Maine.<br>1370 Lexington, Mass.<br>12:30-1:30 p.m., EST.       |
| <b>WHET</b> 1210 Troy, Ala.<br>9 a.m.-noon; 2-4 p.m., CST.   | <b>WJBW</b> 1200 New Orleans, La.<br>8-10 a.m.; 1-5 p.m.; 9 p.m.-mid.,<br>CST.          | <b>WLIT</b> 560 Philadelphia, Pa.<br>2-4:30 p.m.; 6-9 p.m.; mid-1<br>a.m., EST.        |
|  | <b>WJBY</b> 1210 Gadsden, Ala.  | <b>WLOE</b> 1500 Boston, Mass.<br>870 Chicago, Ill.<br>12:30-3:30 p.m.; 6-8 p.m., CST. |
|  |   | <b>WLTH</b> 1400 Brooklyn, N. Y.<br>1:30-4:30 p.m.; 10:30 p.m.-1:30<br>a.m., EST.      |

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| WLVA 1370 Lynchburg, Va.<br>11 a.m.-3 p.m., EST.                              | WOBU 580 Charleston, W. Va.<br>9-7:30 p.m., EST.                                       | WRAX 1020 Philadelphia, Pa.<br>8 a.m.-local sunset, EST.                           |
| WLW 700 Cincinnati, Ohio.<br>8 a.m.-12:30 a.m., EST.                          | WOC 1000 Davenport, Iowa.<br>9 a.m.-11 p.m., CST.                                      | WRBL 1200 Columbus, Ga.  |
| WLWL 1100 New York City.  | WOCL 1210 Jamestown, N. Y.<br>11 a.m.-11 p.m., EST.                                    | WRBX 1410 Roanoke, Va.   |
| WMAC 570 Syracuse, N. Y.  | WODA 1250 Paterson, N. J.  | WRC 950 Washington, D. C.  |
| WMAL 630 Washington, D. C.<br>9 a.m.-mid., EST.                               | WODX 1410 Mobile, Ala.<br>10 a.m.-9 p.m., CST.   | WRDO 1370 Augusta, Maine.<br>6-10 p.m., EST.                                       |
| WMAQ 670 Chicago, Ill.<br>9 a.m.-11 p.m.; mid.-1 a.m.,<br>CST.                | WOI 640 Ames, Iowa.<br>Silent.   | WRDW 1500 Augusta, Ga.   |
| WMAS 1420 Springfield, Mass.  | WOKO 1430 Albany, N. Y.<br>9 a.m.-1 a.m., EST.   | WREC 600 Memphis, Tenn.  |
| WMAZ 1180 Macon, Ga.  | WOL 1310 Washington, D. C.<br>10 a.m.-3 p.m., EST.                                     | WREN 1220 Lawrence, Kans.<br>7 a.m.-mid., CST.                                     |
| WMBC 1420 Detroit, Mich.<br>10:30 a.m.-mid., EST.                             | WOMT 1210 Manitowoc, Wis.<br>Silent.   | WRHM 1250 Minneapolis, Minn.<br>9:30 a.m.-3 p.m.; 4-7 p.m.; 8<br>p.m.-1 a.m., CST. |
| WMBD 1440 Peoria, Ill.<br>8 a.m.-noon; 1:30-3:30 p.m.;<br>8:30-mid., CST.     | WOOD 1270 Grand Rapids, Mich.<br>9 a.m.-11 p.m., CST.                                  | WRJN 1370 Racine, Wis.<br>9 a.m.-10:30 p.m., CST.                                  |
| WMBG 1210 Richmond, Va.<br>Silent.  | WOPI 1500 Bristol, Tenn.<br>10 a.m.-2 p.m.; 5-9 p.m., EST.                             | WRNY 1010 New York City.   |
| WMBH 1420 Joplin, Mo.   | WOQ 1300 Kansas City, Mo.<br>7-8 a.m.; 10 a.m.-1 p.m.; 7-9<br>p.m.; 11 p.m.-mid., CST. | WROL 1310 Knoxville, Tenn.<br>4-8 p.m., CST.                                       |
| WMBI 1080 Chicago, Ill.<br>4-5 p.m., CST.                                     | WOR 710 Newark, N. J.<br>6:45 a.m.-mid., EST.  | WRR 1280 Dallas, Texas.<br>7 a.m.-11 p.m., CST.                                    |
| WMBO 1310 Auburn, N. Y.<br>10:45-11:30 a.m.; 2-9 p.m., EST.                   | WORC 1200 Worcester, Mass.<br>9 a.m.-11 p.m., EST.                                     | WRUF 830 Gainesville, Fla.<br>9 a.m.-8:15 p.m., EST.                               |
| WMBQ 1500 Brooklyn, N. Y.   | WORK 1000 York, Pa.<br>10:25 a.m.-local sunset, EST.                                   | WRVA 1110 Richmond, Va.<br>10 a.m.-11:15 p.m., EST.                                |
| WMBR 1370 Tampa, Fla.<br>6:45 a.m.-1 p.m., EST.                               | WOS 630 Jefferson City, Mo.  | WSAI 1330 Cincinnati, Ohio.<br>12:30-11 p.m., EST.                                 |
| WMC 780 Memphis, Tenn.<br>8 a.m.-11 p.m., CST.                                | WOV 1130 New York City.  | WSAJ 1310 Grove City, Pa.<br>4:30-5 p.m., EST.                                     |
| WMCA 570 New York City.<br>9 a.m.-2 a.m., EST.                                | WOW 590 Omaha, Neb.<br>7:30-8:30 a.m.; 9-11 a.m.; 12:30-<br>6 p.m.; 7-11:30 p.m., CST. | WSAN 1440 Allentown, Pa.   |
| WMIL 1500 Brooklyn, N. Y.<br>9 a.m.-2:30 a.m., EST.                           | WOWO 1160 Fort Wayne, Ind.<br>7:30 a.m.-7:45 p.m.; 9:15 p.m.-<br>mid., CST.            | WSAR 1450 Fall River, Mass.<br>Silent.   |
| WMMN 890 Fairmont, W. Va.<br>10 a.m.-9 p.m., EST.                             | WPAD 1420 Paducah, Ky.<br>7-9 a.m.; 10 a.m.-2 p.m.; 3-<br>10:30 p.m., CST.             | WSAZ 580 Huntington, W. Va.<br>7:30 p.m.-1 a.m., EST.                              |
| WMPC 1500 Lapeer, Mich.<br>10 a.m.-2 p.m.; 3:30-6 p.m.;<br>7:30-11 p.m., EST. | WPAP 1010 New York City.   | WSB 740 Atlanta, Ga.<br>6:55 a.m.-11:30 p.m., EST.                                 |
| WMRJ 1210 Jamaica, N. Y.<br>9 p.m.-mid., EST.                                 | WPAW 1210 Providence, R. I.  | WSBC 1230 Chicago, Ill.  |
| WMSG 1350 New York City.<br>Silent.   | WPCC 560 Chicago, Ill.<br>10 a.m.-12:30 p.m.; 7 p.m.-mid.,<br>CST.                     | WSBT 1230 South Bend, Ind.   |
| WMT 600 Waterloo, Iowa.<br>7 a.m.-11 p.m., CST.                               | WPCH 810 New York City.<br>8 a.m.-7:30 p.m., EST.                                      | WSEN 1210 Columbus, Ohio.<br>10 a.m.-11 p.m., EST.                                 |
| WNAC 1230 Boston, Mass.<br>8 a.m.-1 a.m., EST.                                | WPEN 1500 Philadelphia, Pa.<br>7:30 a.m.-10:30 p.m., EST.                              | WSFA 1410 Montgomery, Ala.<br>7:30 a.m.-local sunset; 9-11:30<br>p.m., CST.        |
| WNAD 1010 Norman, Okla.<br>Silent.  | WPFB 1370 Hattiesburg, Miss.   | WSIX 1210 Springfield, Tenn.   |
| WNAX 570 Yankton, S. D.<br>8 a.m.-mid., CST.                                  | WPG 1100 Atlantic City, N. J.<br>9 a.m.-3:15 p.m.; 6-8 p.m.; 9:15<br>p.m.-1 a.m., EST. | WSJS 1310 Winston-Salem, N. C.<br>8 a.m.-mid., EST.                                |
| WNB 1500 Binghamton, N. Y.<br>11 a.m.-noon; 6-9 p.m., EST.                    | WPHR 1200 Petersburg, Va.<br>10:45 a.m.-1:30 p.m.; 5-9 p.m.,<br>EST.                   | WSM 650 Nashville, Tenn.<br>9:30 a.m.-11 p.m., CST.                                |
| WNBH 1310 New Bedford, Mass.<br>10 a.m.-10:15 p.m., EST.                      | WPOR 780 Norfolk, Va.  | WSMB 1320 New Orleans, La.<br>7 a.m.-mid., CST.                                    |
| WNBQ 1200 Silverhaven, Pa.<br>9 a.m.-noon; 3-6 p.m.; 9 p.m.-<br>mid., EST.    | WPSC 1230 State College, Pa.<br>10:55 a.m.-12:10 p.m., EST.                            | WSMK 1380 Dayton, Ohio.<br>8 a.m.-mid., EST.                                       |
| WNBW 1430 Memphis, Tenn.<br>9:30 a.m.-1 p.m.; 5-9 p.m., CST.                  | WPTF 680 Raleigh, N. C.<br>10:30 a.m.-9:15 p.m., EST.                                  | WSOC 1210 Gastonia, N. C.<br>9:30 a.m.-9:30 p.m., EST.                             |
| WNBX 1200 Carbondale, Pa.<br>1200 Springfield, Vt.<br>Silent.                 | WQAM 560 Miami, Fla.<br>8 a.m.-mid., EST.  | WSPA 1420 Spartanburg, S. C.<br>7:30 a.m.-10 p.m., EST.                            |
| WNBZ 1290 Saranac Lake, N. Y.   | WQAN 880 Scranton, Pa.<br>Silent.  | WSPD 1340 Toledo, Ohio.<br>8 a.m.-mid., EST.                                       |
| WNJ 1450 Newark, N. J.<br>7:45-10:30 a.m.; 7:30-9:30 p.m.,<br>EST.            | WQAO 1010 New York City.   | WSUI 880 Iowa City, Iowa.<br>6-7 p.m.; 9:15-9:45 p.m., CST.                        |
| WNOX 560 Knoxville, Tenn.<br>9 a.m.-11 p.m., CST.                             | WQBC 1360 Vicksburg, Miss.<br>10 a.m.-9 p.m., CST.                                     | WSUN 620 St. Petersburg, Fla.<br>8 a.m.-mid., EST.                                 |
| WNYC 570 New York City.<br>Silent.  | WQDM 1370 St. Albans, Vt.  | WSVS 1370 Buffalo, N. Y.   |
| WOAI 1190 San Antonio, Texas.<br>11 a.m.-4:30 p.m.; 6:15-9:15<br>p.m., CST.   | WQDX 1210 Thomasville, Ga.   | WSYB 1500 Rutland, Vt.<br>10-11 a.m., EST.   |
| WOAX 1280 Trenton, N. J.<br>12:30-3 p.m.; 5-8 p.m.; 9 p.m.-<br>mid., EST.     | WRAC 1370 Williamsport, Pa.<br>10:30 a.m.-noon; 4-5 p.m.;<br>7:15-10:30 p.m., EST.     | WSYR 570 Syracuse, N. Y.<br>11 a.m.-10 p.m., EST.                                  |
|   | WRAM 1370 Wilmington, N. C.<br>10 a.m.-noon; 7-9 p.m., EST.                            | WTAD 1440 Quincy, Ill.<br>Noon-1:30 p.m.; 3:30-8:30 p.m.,<br>CST.                  |
|   | WRAW 1310 Reading, Pa.   | WTAG 580 Worcester, Mass.<br>10:45 a.m.-11:15 p.m., EST.                           |
|   |  | WTAM 1070 Cleveland, Ohio.<br>6:59 a.m.-1 a.m., EST.                               |
|   |  | WTAQ 1330 Eau Claire, Wis.<br>8 a.m.-6 p.m., CST.                                  |
|   |  | WTAR 780 Norfolk, Va.<br>8 a.m.-mid., EST.   |
|   |  | WTAW 1120 College Station, Texas.  |

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| WTAX 1210 Springfield, Ill.             | XEC 1000 Toluca, Mex.                  | XET 690 Monterrey, Mex.                               |
| WTBO 1420 Cumberland, Md.               | XED 965 Reynosa, Mex.                  | 9 a.m.-2 p.m.; 6-10 p.m., CST.                        |
| 10:30 a.m.-12:30 p.m., EST.             | XEE 1000 Oaxaco, Mex.                  | XETA 1140 Mexico City, Mex.                           |
| WTFL 1310 Philadelphia, Pa.             | XEF 735 Villa Acuna, Mex.              | XETB 1380 Torreon, Mex.                               |
| 12:30-3 p.m.; 5-8 p.m., EST.            | 24 hours daily.                        | XETC 1000 Jalapa, Mex.                                |
| WTFI 1450 Athens, Ga.                   | XEFA 1250 Mexico City, Mex.            | XETF 630 Veracruz, Mex.                               |
| 8 a.m.-5 p.m.; 7:45-9:30 p.m., EST.     | XEFB 1315 Monterrey, Mex.              | 7-8 a.m.; noon-3 p.m.; 8-11 p.m., CST.                |
| WTIC 1060 Hartford, Conn.               | XEFC 1050 Merida, Mex.                 | XETG 1000 Torreon, Mex.                               |
| 7:30 p.m.-mid., EST.                    | XEFD 845 Tijuana, Mex.                 | XETQ 1230 Mexico City, Mex.                           |
| WTJS 1310 Jackson, Tenn.                | XEFE 1000 Laredo, Mex.                 | XETR 610 Mexico City, Mex.                            |
| 8:45 a.m.-noon; 1-3:15 p.m., CST.       | XEFI 1000 Chihuahua, Mex.              | XEU 1007 Veracruz, Mex.                               |
| WTMJ 620 Milwaukee, Wis.                | XEFS 1000 Queretaro, Mex.              | 7-8 a.m.; noon-4 p.m.; 8 p.m.-mid., CST.              |
| 8 a.m.-12:30 a.m., CST.                 | Silent.                                | XEV 1000 Puebla, Mex.                                 |
| WTOC 1260 Savannah, Ga.                 | XEFZ 1370 Coyoacan, Mex.               | XEW 910 Mexico City, Mex.                             |
| 8 a.m.-mid., EST.                       | 8-10 p.m., CST.                        | XEX 1210 Mexico City, Mex.                            |
| WTSL 1310 Laurel, Miss.                 | XEG 1070 Mexico City, Mex.             | XEY 1000 Merida, Mex.                                 |
| WWAE 1200 Hammond, Ind.                 | XEH 1132 Monterrey, Mex.               | XEZ 780 Mexico City, Mex.                             |
| WWJ 920 Detroit, Mich.                  | XEI 1310 Morelia, Mex.                 | XFC 810 Aguascalientes, Mex.                          |
| 8 a.m.-mid., EST.                       | 8:30-10 p.m., CST.                     | XFF 875 Chihuahua, Mex.                               |
| WWL 850 New Orleans, La.                | XEJ 1000 Juarez, Mex.                  | XFG 683.3 Mexico City, Mex.                           |
| 10 a.m.-7:45 p.m., CST.                 | 9 a.m.-4 p.m.; 6-11 p.m., CST.         | XFX 867 Mexico City, Mex.                             |
| WWNC 570 Asheville, N. C.               | XEK 990 Mexico City, Mex.              | 10-AB 1200 Moose Jaw, Sask.                           |
| 7 a.m.-mid., CST.                       | XEL 1000 Saltillo, Mex.                | 10-AK 1200 Stratford, Ont.                            |
| WWRL 1500 Woodside, N. Y.               | 10 a.m.-1:30 p.m., CST.                | Silent.   |
| 1-6 p.m., EST.                          | XEM 1300 Tampico, Mex.                 | 10-AT 1155 Trail, B. C.                               |
| WWSW 1500 Pittsburgh, Pa.               | XEN 711 Mexico City, Mex.              | 10-BI 1200 Prince Albert, Sask.                       |
| 9:30 a.m.-10:45 p.m., EST.              | 9-10 a.m.; 1-3 p.m.; 7 p.m.-mid., CST. | 3-4 p.m.; 7-8:30 p.m., MST.                           |
| WWVA 1160 Wheeling, W. Va.              | XEO 940 Mexico City, Mex.              | 10-BP 1199 Wingham, Ont.                              |
| 7:45 a.m.-9 p.m., EST.                  | XEP 1400 Laredo, Mex.                  | 10:30 a.m.-noon; 4:15-5:15 p.m.; 6:45-8:20 p.m., EST. |
| WXYZ 1240 Detroit, Mich.                | XEQ 750 Juarez, Mex.                   | 10-BQ 1200 Brantford, Ont.                            |
| XEA 1155 Guadalajara, Mex.              | 9 a.m.-2 p.m.; 5-11 p.m., MST.         | 11 a.m.-12:30 p.m.; 1:30-2 p.m.; 7-8:30 p.m., EST.    |
| 11 a.m.-noon; 2-3 p.m.; 5-11 p.m., CST. | XER 735 Villa Acuna, Mex.              | 10-BU 1200 Canora, Sask.                              |
| XEB 1030 Mexico City, Mex.              | 24 hours daily.                        |   |
| 8 a.m.-mid., CST.                       | XES 1055 Tampico, Mex.                 |   |
|   | Noon-2 p.m., CST.                      |   |

## The Foreign Short Wave Stations

With Frequencies in Megacycles, Wave Lengths in Meters and Power in Watts. Letters in parentheses are the calls assigned to the country by international agreement. Data in parentheses followed by a question-mark is conflicting information from other authorities. The help of our readers is urgently requested in checking these discrepancies, not from other lists but from letters from the stations in question. The zone given is for use with the RADEX Time Converter. It also indicates the location on the RADEX World Map. (Note: A megacycle is a thousand kilocycles; thus 3.750 megs. equal 3750 kilocycles.)

| City-Call   | Megs.  | Meters   |
|---|--------|--|
| <b>ALGERIA, Africa (See also Tunis) (F) Zone 26</b> |        |  |
| <b>Constantine</b>                                  |        |  |
| FM8KR   | 3.750  | 79.95  |
| .....   | 4.130  | 72.77 Mon. and Fri.  |
| F8KR  | 6.660  | 45.02 Mon. and Fri., 5 p.m., EST. (FM8KR?) (7009 kc.?) 200 w.  |
| <b>ARGENTINA, South America (LOA-LVZ) Zone 18</b>   |        |  |
| <b>Buenos Aires</b>                                 |        |  |
| .....   | 9.460  | 31.69 Radio Club of B. A.  |
| LQA   | 9.600  | 31.23  |
| LSOR  | 9.810  | 30.56  |
| LSRD  | 9.810  | 30.56  |
| LSA   | 9.890  | 30.32  |
| LSN   | 9.895  | 30.30 6 p.m.-6 a.m., EST., with WLO.   |
| LSL   | 9.993  | 30.00  |
| LSN   | 10.300 | 29.00  |
| LSX   | 10.300 | 29.00  |
| LSX   | 10.345 | 28.98 Tests with USA 8-11 p.m., EST. (10382 kc.?)  |
| LSY   | 10.410 | 28.80  |
| LSN   | 14.480 | 20.70 Phones WLO p.m., EST.  |
| LSA   | 14.530 | 20.65  |
| LSJ   | 15.000 | 19.99 (Monte Grande?)  |
| LSR   | 18.958 | 15.82 Phones HJY-CEC 11 a.m., 4 p.m., EST.   |
| LSG   | 19.895 | 15.07 Phones FTM 10:30 a.m., 3:30 p.m., phones Paris and Berlin 7 a.m. and 1 p.m., all EST. (19950?) |
| LSN   | 20.680 | 14.50 Phones Europe after 10:30 p.m.   |

| City-Call  | Megs.  | Meters   |
|--|--------|--|
| LSX  | 20.680 | 14.50 Phones USA.  |
| LSY  | 20.710 | 14.47 Phones 10 a.m., 2 p.m., irreg. Heard about 4 p.m. Sundays, EST. (15.77 m.?)                                    |
| LSN  | 21.020 | 14.27 Phones WLO 8 a.m., 4 p.m., EST.  |
| LSM  | 21.129 | 14.19 Phones Europe a.m. (18850 kc.?)  |
| <b>AUSTRALIA, Oceania (VHA-VMZ) Zones 42-45-46</b> |        |  |
| <b>Melbourne</b>                                   |        |  |
| VK3UZ  | 8.820  | 33.99 Mon. and Wed. 8-8:30 a.m., 11-11:30 p.m., Thurs. 8-8:30 a.m., EST.   |
| VK3ME  | 9.090  | 32.98 4-7 a.m., EST.   |
| VK3LO  | 9.369  | 32.00  |
| VK3VZ  | 9.375  | 31.98  |
| VK3ME  | 9.548  | 31.40 Amalgamated Wireless, Ltd., 47 York St., Wed. 5-6:30 a.m., Sat. 5-7 a.m., EST. (31.55 m.?) (31.28 m.?) 5000 w. |
| <b>Perth</b>                                       |        |  |
| VK6AG  | 7.195  | 41.67 5-11:30 p.m., EST.   |
| VK6AG  | 15.000 | 19.99  |
| <b>Sydney</b>                                      |        |  |
| VK2ME  | 7.940  | 37.76 Tests 3-7 a.m., EST. with GBX (7980 kc.?)  |
| VK2BL  | 8.230  | 32.48  |
| VK2ME  | 8.590  | 31.26 Amalgamated Wireless, Ltd., 47 York St., Sundays 1-3 a.m., 5-9 a.m. 9-9:30-11:30 a.m., EST.                    |
| VK2ME  | 9.750  | 30.75 Phones Java 4-8 a.m., EST.   |

| City-Call   | Megs.  | Meters |   |
|---|--------|--------|---|
| VK2ME   | 9.940  | 30.16  | Sat. 1-3 a.m., Sun. 9:30-11:30 a.m., EST.   |
| VK2FC   | 10.520 | 28.50  |   |
| VK2ME   | 10.520 | 28.50  | 1-7 a.m., EST. with GBX (10527?)  |
| VLK   | 10.540 | 28.44  | 1-7 a.m., EST.  |
| VLK   | 16.320 | 18.37  |   |
| VK2ME   | 16.320 | 18.37  | 3-6 a.m., EST. (16330 kc.?)   |
| VK2ME   | 19.400 | 15.45  |   |
| <b>AUSTRIA, Europe (UOA-UOZ) Zone 28</b>                        |        |        |   |
| <b>Vienna (Wien)</b>  |        |        |   |
| .....   | 4.280  | 70.05  | (OHK2?) Sun. 1st ¼ hr. 1-7 p.m., EST.   |
| UOR2  | 6.072  | 49.41  | Oesterr Radioverkehrs A. G., Tue.-Thurs. 8:30 a.m., noon, 3-5 p.m., EST. 250 w.   |
| .....   | 8.100  | 37.01  | Mon., Thurs. 5:30-7 p.m., EST.  |
| .....   | 11.100 | 27.01  | Mon., Tues. 5:30-7 p.m., EST.   |
| UOR2  | 11.800 | 25.41  | Osterr Radioverkehrs A. G., Wed., Thurs. 6-9 a.m. EST., 250 w.  |
| <b>BELGIUM, Europe (ONA-OTZ) Zone 26</b>                        |        |        |   |
| <b>Brussels</b>   |        |        |   |
| ORG   | 9.598  | 15.62  | Tests 11-11:30 a.m., EST.   |
| ORK   | 10.340 | 28.99  | Phones OPM 2-4, 9-11 a.m., 3-6 p.m., EST.   |
| <b>BERMUDA, North America (VPA-VSZ, ZBA-ZJZ) Zone 18</b>        |        |        |   |
| <b>Hamilton</b>   |        |        |   |
| VRT-ZFA   | 5.045  | 59.42  | Phones WNB - GMBJ nights.   |
| .....   | 9.500  | 31.56  |   |
| VRT-ZFB   | 10.060 | 29.80  | Phones WNB daytime.   |
| <b>BRAZIL, South America (PPA-PYZ) Zones 18-20</b>              |        |        |   |
| <b>Porto Alegre</b>   |        |        |   |
| PRAG  | 8.450  | 35.48  | 8:30-9 a.m., EST.   |
| <b>Rio de Janeiro</b>   |        |        |   |
| PTH   | 6.120  | 48.99  | 5-7 p.m., daily, EST.   |
| PSK   | 8.180  | 36.65  | Heard phone WOK.  |
| .....   | 9.450  | 31.73  | 4:30-6:30 p.m., EST.  |
| PSH   | 10.212 | 29.35  | Tests W2XBJ evenings.   |
| PPQ   | 11.644 | 25.75  | Tests about 6 p.m., EST., irreg.  |
| PSS   | 14.684 | 20.42  | Tests LSN about 6 p.m., EST.  |
| PSA   | 16.162 | 18.55  |   |
| PPU   | 19.270 | 15.57  | Phones FTM 10:30 a.m.-3 p.m., EST. (19250?)   |
| <b>BRITISH GUIANA, South America (VPA-VSZ, ZBA-ZJZ) Zone 18</b> |        |        |   |
| <b>Georgetown</b>   |        |        |   |
| VRY   | 6.840  | 43.83  | Wed., 7:15-9:15 p.m., EST., Sun. 5:45 p.m. (6726?)  |
| <b>BRITISH MALAYA, Asia (VPA-VSZ, ZBA-ZJZ) Zone 40</b>          |        |        |   |
| <b>Johore Baru</b>  |        |        |   |
| VSSAB   | 7.055  | 42.50  |   |
| <b>CANARY ISLANDS, Africa (EAA-EHZ) Zone 24</b>                 |        |        |   |
| <b>Teneriffe</b>  |        |        |   |
| EAR58   | 7.207  | 41.60  | Sat.-Sun. 4:30-6 p.m., EST., 50 w.  |
| <b>CHILE, South America (CAA-CEZ) Zone 16</b>                   |        |        |   |
| <b>Santiago</b>   |        |        |   |
| CEC   | 10.664 | 28.12  | Tests HJY evenings, irreg.  |
| CEC   | 19.678 | 15.24  | Phones LSR-HJY 11 a.m., 4 p.m., EST.  |
| <b>CHINA, Asia (XGA-XUZ) Zone 42</b>                            |        |        |   |
| <b>Hongkong</b>   |        |        |   |
| .....   | 9.373  | 31.97  |   |
| .....   | 10.250 | 29.25  |   |
| <b>Kiangsu</b>  |        |        |   |
| XCTE  | 5.000  | 59.96  | (XGTE?) Chinese Triode Electric Co., Mon. and Fri.  |
| <b>COLOMBIA, South America (HJA-HKZ) Zone 16</b>                |        |        |   |
| <b>Barranquilla</b>   |        |        |   |
| HKD   | 5.996  | 50.00  | Elias J. Pellet, Apartado 715, daily 7:45-10:30 p.m., Mon.-Wed. 8-10:30 p.m., Sun. 7:45-8:30 p.m., EST. (5835? 5837? 5990? 6050? 6240?) 15 w. |
| HKA   | 6.131  | 48.90  | Jesus Amortegui P., Apartado 765, daily 8-10 p.m., ex. Mon., Wed., Fri. (6138? 6160? 6246? 6250?) 50 w.                                       |
| <b>City-Call Megs. Meters</b>                                   |        |        |   |
| HKD   | 6.993  | 42.87  | Mon., Wed., Fri. 7:45-10 p.m., Sat. 2-4 a.m., Sun. 7:45-8:30 p.m., EST.   |
| <b>Bogota</b>   |        |        |   |
| HKC   | 6.205  | 48.35  | Universal Radio Corp., Columbia Radio Corp. (6270? 6275?) 200 w.  |
| HKM   | 6.625  | 45.25  | R. Jaramillo, Apartado 188, 8:30-10:30 p.m., ex. Sun., EST. (6660?) 250 w.  |
| HXX   | 7.140  | 41.99  |   |
| HKF   | 7.143  | 41.95  |   |
| HKI   | 7.402  | 40.50  |   |
| HKF   | 7.610  | 39.40  | Laboratorio Radio Electrico-Westinghouse, Apartado 317 (7550? 7616?) 7-11 p.m., EST.  |
| HKF   | 8.690  | 34.50  | 5-7 p.m., 11 p.m., -1 a.m., EST. (3692?)  |
| HJY   | 18.444 | 16.25  | All American Cables Tests CEC Santiago daily 6 p.m. Phones CEC-LST 11 a.m., 4 p.m.  |
| HJY   | 19.856 | 30.20  | Phone OCI evenings irreg. All-American Cables.  |
| <b>Cali</b>   |        |        |   |
| HKS   | 6.378  | 47.00  | Sres. Riva Hnos Abt. 10 p.m.  |
| HKK   | 7.122  | 42.10  | Sres. Riva Hnos (7295?)   |
| <b>Manizales</b>  |        |        |   |
| HKT   | 7.139  | 42.00  | Roberto Baena, P. O. 76, Thurs. 7-8 p.m., Sat. 11-Mid., EST. Tests 11-noon, 4-6 p.m., EST, 25 w.  |
| <b>Medellin</b>   |        |        |   |
| HKO   | 5.925  | 50.60  | Columbian Radio Corp. Hotel Europa, Mon., Wed., Fri. 8-10 p.m., Tues. Thurs., Sat. 6-8 p.m., EST. (5900?) 200 w.                              |
| HKN   | 7.105  | 42.20  | Santiago Gaviria, Parque Berrios, No. 188, 8-10 p.m., 30 w.   |
| HKN   | 11.712 | 25.59  |   |
| <b>Tunja</b>  |        |        |   |
| HKB   | 5.879  | 51.00  | Abt. 10 p.m., EST. irreg.   |
| <b>COSTA RICA, North America (TIA-TIZ) Zone 14</b>              |        |        |   |
| <b>Electra Cartago</b>  |        |        |   |
| TIRA  | 6.080  | 49.31  | Compania Radiografica Internacional de Costa Rica.  |
| TIRA  | 9.590  | 31.26  |   |
| <b>Heredia</b>  |        |        |   |
| TI4NRH  | 9.670  | 31.00  | Amando Cespedes Marin. Daily, ex. Sat.-Sun., 10-11 p.m. (9734?)   |
| TI4NRH  | 10.238 | 29.3   | Amando Cespedes Marin., Mon., Wed. 7:30-8:30 p.m., Thurs., Sat. 9-10 p.m., EST. (10240? 10600?) 7.5 w.  |
| TI4NRH  | 15.066 | 19.90  | Sat. 11-noon, 4-5 p.m., 10-11 p.m., Sun., Mon. 11-noon, 4-5 p.m.  |
| <b>San Jose</b>   |        |        |   |
| TITR  | 11.790 | 25.43  | Margarita M. de Girton.   |
| <b>CUBA, North America (CLA-CMZ) Zone 16</b>                    |        |        |   |
| <b>Cienfuegos</b>   |        |        |   |
| CM6DW   | 7.300  | 41.07  |   |
| <b>Havana</b>   |        |        |   |
| CMCI  | 6.058  | 49.50  | 9-11 p.m., EST.   |
| CM2MK   | 7.184  | 41.75  |   |
| CM2MK   | 9.350  | 32.07  | 5-9 p.m., EST. (9360?)  |
| CM2LA   | 10.013 | 29.94  |   |
| <b>Matanzas</b>   |        |        |   |
| CM5RY   | 7.312  | 41.00  | Sat. 10:45-11:30 p.m., EST.   |
| <b>Tuinucu</b>  |        |        |   |
| CM6XJ   | 15.000 | 19.99  |   |
| <b>CZECHO-SLOVAKIA, Europe (OKA-OKZ) Zone 28</b>                |        |        |   |
| <b>Podebrady</b>  |        |        |   |
| OKI   | 21.000 | 14.28  |   |
| <b>Prague</b>   |        |        |   |
| OK1MPI  | 5.169  | 58.00  |   |
| OK1MPT  | 5.172  | 58.00  | Tue.-Fri. 1-3:30 p.m., 8:30-10:30 p.m., EST.  |
| <b>DENMARK, Europe (OUA-OZZ) Zone 28</b>                        |        |        |   |
| <b>Copenhagen</b>   |        |        |   |
| OZ7R  | 3.560  | 84.22  | Tues., Fri. after 6 p.m. EST.   |
| OXO-OXZ   | 6.057  | 49.50  | (6090 kcs.?)  |
| OZ7MK   | 9.375  | 31.98  |   |
| OXO-OXZ   | 9.488  | 31.60  |   |
| OZ7RL   | 9.500  | 31.56  |   |
| OXO-OXZ   | 15.300 | 19.53  |   |

| City-Call   | Megs.  | Meters |   |
|---|--------|--------|---|
| <b>Lynghy</b>   |        |        |   |
| OXY   | 15.300 | 19.53  |   |
| <b>Skamlebak</b>  |        |        |   |
| OXY   | 9.520  | 31.49  | Direction Generale des Postes et des Telegraph. Copenhagen. Relays Copenhagen 2-6:30 p.m., EST. 500 w.                                  |
| <b>DOMINICAN REPUBLIC, North America (HIA-HIZ) ZONE 16</b>      |        |        |   |
| <b>Santo Domingo</b>  |        |        |   |
| HIX   | 4.610  | 65.04  |   |
| <b>DUTCH EAST INDIES, Oceania (UIA-UKZ-PKA-POZ) Zones 40-44</b> |        |        |   |
| <b>Makassar</b>   |        |        |   |
| PK-6K   | 11.720 | 25.58  | 6:40-9:40 EST.  |
| PK6KZ   | 11.993 | 25.07  |   |
| <b>Malabar</b>  |        |        |   |
| PLF   | 17.640 | 16.99  |   |
| <b>Tandjong Priok</b>   |        |        |   |
| .....   | 6.055  | 49.60  |   |
| .....   | 9.579  | 31.29  |   |
| .....   | 15.336 | 19.55  |   |
| <b>ECUADOR, South America (HCA-HCZ) Zone 16</b>                 |        |        |   |
| <b>Guayaquil</b>  |        |        |   |
| HC2JM   | 8.570  | 34.98  |   |
| <b>Quito</b>  |        |        |   |
| HCJB  | 5.711  | 52.50  | Daily, ex. Mon., 7:30-10 p.m., EST.   |
| HC1DR   | 6.380  | 46.99  | Daily, 8-11 p.m., EST.  |
| <b>Riobamba</b>   |        |        |   |
| .....   | 6.618  | 45.31  | Thurs., 9-11 p.m., EST. (PRADO?)  |
| .....   | 7.530  | 39.82  | Thurs., 9-11 p.m., EST. (7538?)   |
| <b>EGYPT, Africa (STA-SUZ) Zone 30</b>                          |        |        |   |
| <b>Cairo</b>  |        |        |   |
| SUS   | 9.110  | 32.91  | Egypt High Power Trans. Radio to England.   |
| <b>FIJI ISLANDS, Oceania (VPA-VSZ-ZBA-ZJZ) Zone 50</b>          |        |        |   |
| <b>Suva</b>   |        |        |   |
| VPD   | 7.890  | 38.00  |   |
| VPD   | 14.420 | 20.80  |   |
| <b>FRANCE, Europe (F) Zone 26</b>                               |        |        |   |
| <b>Agen</b>   |        |        |   |
| .....   | 9.750  | 30.75  | Tues., Fri., 3-4:15 p.m., EST.  |
| <b>Lyon</b>   |        |        |   |
| YR  | 7.460  | 40.19  | Daily ex. Sun., 10:30 p.m., 1:30 a.m., EST.   |
| <b>Nancy</b>  |        |        |   |
| .....   | 19.350 | 15.50  | 4-5 p.m., EST.  |
| <b>Paris</b>  |        |        |   |
| .....   | 4.760  | 62.99  | Radio LL.   |
| .....   | 4.920  | 60.94  | Radio LL.   |
| F8BP  | 5.450  | 55.01  | Ruggles.  |
| .....   | 6.000  | 49.97  | Eiffel Tower Tests 6:30-6:45 a.m., 1:15-1:30, 5:15-5:45 p.m., EST.  |
| FL  | 6.120  | 48.99  | Eiffel Tower, 5:30-5:45 a.m., 5:45-12:30 p.m., 4:15-4:45 p.m., EST.   |
| .....   | 6.860  | 43.71  | Radio Vitus, 4-11 a.m., 3 p.m., EST.  |
| .....   | 7.500  | 39.98  | Radio Touraine.   |
| FTL   | 7.660  | 39.14  | St. Assise.   |
| FTF   | 7.770  | 38.59  | St. Assise.   |
| F8BZ  | 7.775  | 38.57  | Phones to ships.  |
| .....   | 9.090  | 32.98  | Radio LL, Daily, 6:30-7 a.m., noon-12:30, Sun., Mon. Wed., Fri., 2-4 p.m. Sat. 1-2:30 p.m., Sun. 4-6:30 a.m., 8:30-10 a.m., EST. 500 w. |
| FL  | 9.230  | 32.48  | Eiffel Tower Time Sigs., 4:56 a.m. and p.m. (FLJ?)  |
| FTI   | 9.840  | 30.47  | St. Assise.   |
| FYA   | 11.308 | 26.51  | Pontoise.   |
| FYA   | 11.680 | 25.67  | Pontoise, 4-7 p.m., 1-3 a.m., EST.  |
| .....   | 11.705 | 25.63  | Radio Colonial, 3-6 p.m., EST.  |
| .....   | 11.720 | 25.58  | Pontoise, Administration des P.T.T. 3-6 p.m., EST. (11705?)   |
| FYA   | 11.898 | 25.20  | Administration des PTT Pontoise 10:30 a.m.-1:30 p.m., daily, EST. (11916?)  |
| FQE-FQO   | 12.150 | 24.68  | St. Assise.   |

| City-Call                                  | Megs.  | Meters |  |
|--|--------|--------|--|
| <b>FTN</b>                                 | 12.250 | 24.48  | St. Assise, Tests U.S.A. days, irreg. Works Buenos Aires, Indo-China, Java, 9 a.m.-1 p.m.  |
| <b>F8BZ</b>                                | 13.628 | 22.00  | Telephone to ships.  |
| <b>FW4</b>                                 | 12.700 | 23.61  | Daily noon-2 p.m., EST.  |
| <b>FYA</b>                                 | 15.234 | 19.68  | Administration des PTT. Pontoise Service de la Radiodiffusion 103 Rue de Grenelle, Paris, 7 a.m.-10 a.m., daily, EST.  |
| <b>F8BZ</b>                                | 15.456 | 19.40  | Phones to ships.   |
| <b>FTK</b>                                 | 15.860 | 18.90  | Telephony, St. Assise  |
| .....                                      | 19.282 | 15.55  | St. Assise, 10 a.m.-noon, EST. (19244?)  |
| <b>FRO-FRE</b>                             | 18.240 | 16.44  | St. Assise.  |
| <b>FTE</b>                                 | 18.240 | 16.44  | St. Assise, Phones FZR 5-9 a.m., EST.  |
| <b>FTM</b>                                 | 19.282 | 15.55  | St. Assise, 10 a.m.-noon, EST. (19244?)  |
| <b>FRO-FRE</b>                             | 19.400 | 15.45  | St. Assise.  |
| <b>FTD</b>                                 | 19.830 | 15.12  | St. Assise.  |
| <b>Strasbourg</b>                          |        |        |  |
| .....                                      | 6.280  | 47.74  |  |
| <b>Toulouse</b>                            |        |        |  |
| .....                                      | 6.120  | 48.99  | Sundays 2:30-4 p.m., EST.  |
| <b>FRENCH INDO-CHINA, Asia (F) Zone 40</b> |        |        |  |
| <b>Saigon (Chi-Hoa)</b>                    |        |        |  |
| <b>F3ICD</b>                               | 6.131  | 48.90  | 106 Boulevard Charner, Chi-Hoa 6:30-10:30 a.m., daily, EST. (6120?)  |
| <b>F3ICD</b>                               | 11.776 | 25.46  | Sats. 10:30 a.m.-12:30 p.m., EST. 12 kw.   |
| <b>FZG</b>                                 | 12.000 | 24.99  | Time sigs. 2-2:05 p.m., EST. (12010?)  |
| <b>FZG</b>                                 | 13.010 | 23.04  |  |
| <b>F3ICD</b>                               | 15.750 | 19.03  |  |
| <b>FZR</b>                                 | 16.200 | 18.51  |  |
| <b>FZS</b>                                 | 18.310 | 16.38  | Suns. 1-3 p.m., EST.   |
| <b>FZA</b>                                 | 18.365 | 16.32  |  |
| <b>FSR</b>                                 | 20.680 | 14.50  | Phones.  |
| <b>GERMANY, Europe (D) Zone 28</b>         |        |        |  |
| <b>Berlin (Königs wusterhausen)</b>        |        |        |  |
| <b>DJC</b>                                 | 6.020  | 49.80  | Deutsche Reichspost.   |
| .....                                      | 9.500  | 31.56  | 8 a.m.-7:30 p.m., EST.   |
| <b>DJA</b>                                 | 9.560  | 31.36  | Deutsche Reichspost a.m.-7:30 p.m.   |
| <b>DHI</b>                                 | 10.054 | 29.82  |  |
| <b>DJD</b>                                 | 11.760 | 25.50  | Deutsche Reichspost.   |
| <b>DJB</b>                                 | 15.200 | 19.72  | Deutsche Reichspost, Mon. 10-11 p.m.   |
| .....                                      | 15.300 | 19.60  | 7 a.m., EST.   |
| <b>DJE</b>                                 | 17.760 | 16.88  | Deutsche Reichspost.   |
| .....                                      | 42.530 | 7.05   | Telefunken Co. Tues., Thurs. 11:30 a.m.-1:30 p.m., EST.  |
| <b>Colthen</b>                             |        |        |  |
| <b>D4AFF</b>                               | 6.875  | 43.60  | Sun. 4-6 a.m., Tues. and Fri. noon-2 p.m.  |
| <b>Doeberitz</b>                           |        |        |  |
| <b>DOA</b>                                 | 3.620  | 82.82  |  |
| <b>DOA</b>                                 | 4.430  | 67.68  | Mon., Wed., Fri. 6-7 p.m., 2-3 p.m., EST.  |
| <b>DOA</b>                                 | 7.230  | 41.47  |  |
| <b>DOA</b>                                 | 7.930  | 37.81  | Reichpostzentramt, Berlin, 1-3 p.m.  |
| <b>Eberswalde</b>                          |        |        |  |
| .....                                      | 7.410  | 40.46  | Mon., Thurs. 1-2 p.m., EST.  |
| <b>Nauen</b>                               |        |        |  |
| <b>DIQ</b>                                 | 5.144  | 58.33  | (9642?) (10285?)   |
| <b>DGK</b>                                 | 6.675  | 44.91  | Tests WEJ 9 p.m., EST.   |
| <b>DIZ</b>                                 | 10.150 | 29.58  | Press code daily: Spanish, 6 p.m.; English, 7 p.m.; German, 7:50 p.m.; English, 2:30 p.m.; German, 5 p.m.; Sundays, Spanish, 6 p.m.; German, 7:50 p.m.; Spanish, 9:30 p.m., EST. |
| <b>DHC</b>                                 | 10.160 | 29.51  | Phones ships daily (11.435?)   |
| <b>DFA</b>                                 | 19.240 | 15.58  | Phones XDA 10 a.m.-2 p.m., irreg.  |
| <b>DIH</b>                                 | 19.950 | 15.03  | News in code: English, 6:15 a.m.; French, 8:30 a.m., and 11 a.m.; Sun., French, 8:30 a.m., EST.  |
| <b>DHO</b>                                 | 20.028 | 14.97  | Phone LSG 7-11 a.m., irreg.  |
| <b>DWG</b>                                 | 20.140 | 14.88  | Tests 10 a.m.-3 p.m., EST  |

| City-Call   | Megs.  | Meters |  |
|---|--------|--------|--|
| <b>Nordreich(?)</b>                                 |        |        |  |
| DAN   | 11.340 | 26.44  | Deutsche Seewarte, Hamburg Time sigs. 7 a.m. and 7 p.m., EST.  |
| <b>Norden</b>                                       |        |        |  |
| DAN   | 8.328  | 36.00  | Phones ships 2-4 a.m., 3-9 a.m.  |
| DAN   | 12.490 | 24.00  | Phones ships noon-3 p.m., 4-9 a.m.   |
| DAN   | 8.300  | 18.06  | Tests with ships 9 a.m.-noon.  |
| <b>Zeesen</b>                                       |        |        |  |
| DJB   | 15.196 | 19.73  | Mon., Fri., Sat., irreg. Sun. 8 a.m.-4 p.m.  |
| DJA   | 9.552  | 31.38  | Relays various stations 8-9 a.m., 10:30-1:30 p.m., 2-6:30 p.m. 8000 w.   |
| <b>GREAT BRITAIN, Europe (G-M) Zone 26</b>          |        |        |  |
| <b>Bodmin</b>                                       |        |        |  |
| GBK   | 9.250  | 32.41  | 6 a.m.; 6 p.m.   |
| GBK   | 11.490 | 26.10  |  |
| GBK   | 18.100 | 16.56  | 6 a.m., 2 p.m.   |
| GBJ   | 18.620 | 16.10  | Telephones Montreal.   |
| <b>Chelmsford</b>                                   |        |        |  |
| G5SW  | 11.750 | 25.51  | British Broadcasting Corp., Savoy Hill, London, W. C. 2. Daily, ex. Sun. 6:30-7:30 a.m., 12:45-6 p.m., EST. 12 kw. |
| G5SW  | 25.960 | 11.55  | Experimental.  |
| <b>London</b>                                       |        |        |  |
| G2AA  | 8.570  | 33.70  | Phones to ships.   |
| <b>Rugby</b>  |        |        |  |
| GBC   | 4.975  | 60.26  | Phones ships irreg.  |
| GBS   | 6.989  | 42.90  | 6 a.m., 6 p.m. (6995?)   |
| GBS   | 9.022  | 33.25  | 6 a.m., 6 p.m. (9010?)   |
| GBS   | 9.200  | 32.59  | Transatlantic phone.   |
| GBC   | 9.310  | 32.20  | Sun. 2:30-5 p.m., EST.   |
| GBW   | 9.790  | 30.63  |  |
| GCW   | 9.798  | 30.60  | Phones America evenings.   |
| GBU   | 9.942  | 30.15  | 5:11 p.m., EST.  |
| GBX   | 10.390 | 28.85  |  |
| GBX   | 10.800 | 27.76  |  |
| GBS   | 12.190 | 24.60  | Transatlantic phone to Deal, N. J., 2 p.m., 7 p.m. (12150?) (12250?)   |
| GBX   | 12.190 | 24.60  | To VK2ME-VLK 4 a.m.-9 a.m.   |
| GBU   | 12.290 | 24.39  | To WMI 2 p.m.-7 p.m.   |
| GBC   | 12.780 | 23.46  |  |
| GBB-GBC   | 13.591 | 22.06  | Phones CGA and ships p.m.  |
| GBW   | 14.450 | 20.75  | Phones WNC 6 a.m., 6 p.m. Radio Section, G. P. O. London (14480?)  |
| GBX   | 16.150 | 18.56  | VK2ME 4-11 p.m., EST. (16164?)   |
| GBC   | 17.080 | 17.55  |  |
| GBW   | 18.124 | 16.54  | WNC 6 a.m.-2 p.m.  |
| GBS   | 18.310 | 16.38  | G. P. O., London, Tele-phones N. Y. 6 a.m.-2 p.m.  |
| GBU   | 18.620 | 16.10  | WMI 6 a.m.-2 p.m., EST.  |
| GBA   | 20.400 | 14.70  | Phones LSN and ships irreg.  |
| <b>Sonning-on-Thames</b>                            |        |        |  |
| G2NM  | 3.583  | 83.68  | Sun. 5 a.m., EST.  |
| G2NM  | 14.310 | 20.95  | Sun. 1:30 p.m., EST.   |
| <b>GUATAMALA, Central America (TGA-TGZ) Zone 14</b> |        |        |  |
| <b>Guatemala City</b>                               |        |        |  |
| TGW   | 6.480  | 46.27  | 9-11 p.m., EST. (6663?) (6678?) 100 w.   |
| TGX   | 8.950  | 33.50  | Sr. Miguel Angel Mejicano Norvaes, 45 11th Ave., N. Sats. 10 p.m.-mid.   |
| TGGA  | 9.370  | 32.00  |  |
| TGX   | 9.516  | 31.52  |  |
| TGW   | 10.800 | 27.76  | (10708?)   |
| TGCA  | 13.043 | 22.98  | 10 p.m.-mid., EST.   |
| <b>HOLLAND, Europe (PAA-PIZ) Zone 26</b>            |        |        |  |
| <b>Amsterdam</b>                                    |        |        |  |
| PHI   | 17.760 | 16.88  | (Huizen) Mon. 3-6 a.m., Wed., Thurs., Fri. 2-6 p.m., EST.  |
| <b>Eindhoven</b>                                    |        |        |  |
| PCJ   | 9.590  | 31.26  | (Hilversum) Wed. 2-3 p.m., Thurs. 9 a.m.-5 p.m., Fri., 2-9 p.m., EST.  |
| <b>Hague</b>  |        |        |  |
| PCM   | 6.430  | 46.63  | Sun. 3-6 p.m., Mon., Sat. 4-7 p.m.   |
| PBF5  | 6.438  | 46.58  |  |

| City-Call  | Megs.  | Meters |   |
|--|--------|--------|---|
| <b>Hilversum</b>                                   |        |        |   |
| PCJ  | 9.590  | 31.26  | N. V. Phillips Radio, Ex-per. Station (Eindhoven?)  |
| PCJ  | 15.220 | 19.71  | N. V. Phillips Radio, Ex-per. Sta.  |
| <b>Huizen</b>                                      |        |        |   |
| PHI  | 17.775 | 16.87  | N. V. Phillips Radio, Under constn. Transmission for E. Indies.                             |
| PHO  | 17.775 | 16.87  | Daily ex. Tues. 7-9 a.m., EST.  |
| <b>Kootwijk</b>                                    |        |        |   |
| .....  | 7.758  | 38.65  | Code usually (7628?)  |
| PCK  | 7.770  | 38.59  | 9 a.m.-7 p.m., EST.   |
| PDV  | 7.830  | 38.29  | After 9 a.m.  |
| PDK  | 10.410 | 28.80  |   |
| PCP  | 10.800 | 27.76  |   |
| PCL  | 16.300 | 18.39  | Works with Bandoeng from 7 a.m. EST.  |
| PCV  | 17.830 | 16.82  | With Java 6-9 a.m. Sats. 9:40 a.m. (17836?)   |
| PCK  | 18.400 | 16.29  |   |
| PDM  | 18.600 | 16.12  |   |
| <b>HONDURAS, Central America (HRA-HRZ) Zone 14</b> |        |        |   |
| <b>Tegucigalpa</b>                                 |        |        |   |
| HRB  | 6.005  | 49.96  | Daily ex. Sun. 7-11p.m. (?) Mon., Wed., Fri., Sat. 5-6 p.m., 9-mid. (6170?) (6000?) 2500 w. |
| <b>HUNGARY, Europe (HAA-HAZ) Zone 28</b>           |        |        |   |
| <b>Budapest</b>                                    |        |        |   |
| .....  | 7.220  | 41.53  | Budapest Technical School, M.R.C. Tues., Thurs., Sat. 2:30-3:10 a.m., EST.                  |
| <b>Szekesfeharvar</b>                              |        |        |   |
| HAT  | 9.125  | 32.86  |   |
| <b>INDIA, Asia (VTA-VWZ) Zone 37-38</b>            |        |        |   |
| <b>Bombay</b>                                      |        |        |   |
| VVD  | 6.110  | 49.07  | Mon., Wed., Fri. 12:30-1:15 p.m., EST.  |
| <b>Calcutta</b>                                    |        |        |   |
| VUC  | 11.870 | 25.27  | Indian State Broadcast. Service, 9:45-10:45 p.m., 8-9 a.m., EST.                            |
| <b>ITALY, Europe (I) Zone 28</b>                   |        |        |   |
| <b>Coltana</b>                                     |        |        |   |
| IAC  | 12.760 | 23.50  | Testing irreg.  |
| <b>Rome</b>  |        |        |   |
| I3RO   | 3.750  | 79.95  | Daily 3-5 p.m., EST.  |
| I2RO   | 6.220  | 48.20  | 9000 w.   |
| I1AX   | 6.667  | 45.00  |   |
| IMA  | 6.900  | 43.45  | Daily noon-2 p.m., EST.   |
| I2RO   | 11.800 | 25.40  | 11 a.m.-12:30 p.m., 3-5:30 p.m., EST. (11811?) (11810?) (11:30 a.m. to 5:30 p.m.?)          |
| <b>Turin</b>                                       |        |        |   |
| .....  | 3.750  | 79.95  |   |
| <b>JAPAN, Asia (J) Zone 44</b>                     |        |        |   |
| <b>Kemikawa-Che</b>                                |        |        |   |
| J1AA   | 7.876  | 38.07  | Tests KIEL irreg. (9862?)   |
| J1AA   | 13.074 | 22.93  | Exp. tests irreg.   |
| J1AA   | 15.760 | 19.02  | Exp. early a.m. (15120?)  |
| <b>Tokyo</b>                                       |        |        |   |
| J1AA   | 7.890  | 38.00  | Testing   |
| J1AA   | 8.100  | 37.01  | Tests 5-8 a.m., EST. (Kemikawa?)  |
| .....  | 12.090 | 24.80  | 5-8 a.m., EST.  |
| J1AA   | 15.760 | 19.02  | Beam transm. to 10 a.m.   |
| J1AA   | 17.380 | 17.25  |   |
| <b>JAVA, Oceania (PKK-POZ, UIA-UKZ) Zone 40</b>    |        |        |   |
| <b>Bandoeng</b>                                    |        |        |   |
| PLE  | 18.820 | 15.93  | Phone to Holland PCK Tues., Fri. 5:40-10:40 a.m., EST. (18860?)                             |
| PMY  | 5.143  | 58.30  | Phones Australia 11 a.m., Tues., 8:40-10:40 a.m., EST. (5799?) 2000 w.                      |
| PLW  | 8.120  | 36.92  |   |
| PLV  | 9.410  | 31.86  | Phones Australia and Sumatra 4-8 a.m., Tues. 8:40-10:40 a.m. 80 kw.                         |
| PLW  | 9.410  | 31.86  |   |
| PLW  | 9.480  | 31.63  | Phones Australia 3-8 a.m., irreg.   |
| PLR  | 10.630 | 28.20  | Works Holland and France weekdays after 7 a.m.; sometimes after 9:30.                       |

**City-Call** *Megs.* *Meters*  
 PLM 12.290 24.40 Phones VK2ME abt. 6:30  
 a.m. (12250?)  
 PLG 15.950 18.80 Afternoons  
 PLF 17.850 16.80 Radio Malabar.  
 PMC 18.170 16.50 Phones PCV 3:10-9:20  
 a.m. (18370?)  
 PMB 20.600 14.55 3:10-4:40 a.m., 8-9:20  
 a.m. (20620?)

**Batavia**  
 PK1AA 3.998 75.00  
**Djocjocarta**  
 PK2AF 6.000 49.97 6:40-9:40 a.m.  
 ..... 11.310 26.50 Radio Goldberg Sun.,  
 Tues., Thurs. 5-7 a.m., EST.

**Samarang**  
 PK2AG 3.156 95.00  
 PK2AG 7.890 38.00

**Surabaya**  
 ..... 2.143 140.00  
 PMB 5.170 57.99  
 PK3AN 6.040 49.64 6-9 a.m., EST.  
 PK3CH 6.662 45.00

**KENYA, Africa (VPA-VSZ, ZBA-ZJZ) Zone 31**

**Nairobi**  
 VQ7LO 9.616 31.18  
 VQ7LO 6.060 49.48 Imperial and International  
 Communications, Ltd., Mon., Wed., Fri. 11 a.m.-  
 2:30 p.m., Tues. 3-4 a.m., 11:30 p.m., Thurs. 8-9  
 a.m., 11:30 a.m.-2:30 p.m., Sat. 11:30 a.m.-3:30  
 p.m., Sun. 11 a.m.-1:30 p.m., EST. (6000 kcs.?)  
 (6100 kcs.?) (6134 kcs.?)

**KONGO, Africa (ONA-OTZ) Zone 28**

**Leopoldville**  
 OPM 10.090 29.70 Phones ORK 2-4, 9-11  
 a.m., 3-6 p.m., EST.  
 OPL 20.028 14.97 Phones ORG a.m.

**MADAGASCAR, Africa (F) Zone 32**

**Tananarive**  
 FTUI 5.689 52.70 Sat., Sun. 1-3 p.m. Other  
 days 9:15-11:15 a.m., EST. (5552 kcs.?)  
 ..... 6.000 49.97 Town of Antananarivo,  
 Administration locale, Sat., Sun. 1-3 p.m. Other  
 days 9:30-11 a.m., EST.

**Tamatore**  
 FZU 19.460 15.40

**MADEIRA ISLANDS (CSA-CUZ) Zone 24**

**Funchel**  
 CT2AG 6.380 46.99 5-7 p.m., Sat., EST.  
 CT3AQ 9.370 32.00 Rue de Comercio 160,  
 Tues., Thurs. 4-6:30 p.m., Sun. 10:30-noon.  
 CT3AQ 12.490 24.00 Rue de Comercio 160,  
 Tues., Thurs. 4-6:30 p.m., Sun. 10:30 a.m.-noon.

**MEXICO, North America (XAA-XFZ) Zone 14**

**Chapultepec**  
 XDA 5.357 55.96 Daily 10-11 a.m., EST. 20  
 kw.  
 XDA 11.763 25.50 Daily 3-4 p.m., EST.  
 (11765 kcs.?)  
 XDA 14.630 20.50 Daily 2:30-3 p.m., EST.  
**Merida**  
 XAM 5.766 52.00 Tests XDA 10 a.m.-8 p.m.,  
 irreg.  
 XAM 11.530 26.00 Phones XDA 10 a.m.-10  
 p.m., irreg.

**Mexico City**  
 XDA 5.860 51.16 Chapultepec? Tests XAM  
 10 a.m.-8 p.m., irreg. (5879 kcs.?) (5857 kcs.?)  
 XEW 6.020 49.80 8-11 p.m., Sun. to 2 a.m.,  
 EST.  
 XIF 6.380 46.99 7-8 p.m., 11 p.m.-1 a.m.,  
 EST.  
 XFD 6.667 44.98  
 XDA 6.818 44.00  
 XFD 9.091 32.97  
 XDA 9.375 31.98 Chapultepec?  
 XFD 11.111 26.08  
 XDA 11.760 25.71 Chapultepec? Daily 3-4  
 p.m., EST.  
 XDA 14.620 20.51 Chapultepec? Trans-News  
 Agency, 2:30-3 p.m., EST.

**City-Call** *Megs.* *Meters*  
**Nuevo Laredo**  
 X26A 7.370 40.68 9-10 a.m., 11-noon, 1-2  
 4-5, 7-8 p.m., EST. Tests after midnight. DX  
 program 11 p.m., Wed.  
 X26A 7.612 39.39 Thurs. 11-noon EST.  
 (7661 kcs.?)

**MOROCCA, Africa (CNA-CNZ) Zone 26**

**Casablanca**  
 CN8MC 5.875 50.94  
 CN8MC 6.250 47.97 Relays Rabat Mon. 3-4  
 p.m., Tues. 7-8 a.m., 3-4 p.m. (6336 kcs.?)  
 F8MC 6.875 43.61 (CN8MC?) (10710 kcs.?)

**Rabat**  
 ..... 6.877 43.60  
 ..... 9.290 32.27 Radio Maroc. 6 k.w.  
 Sun. 3-5 p.m., weekdays, irreg.  
 CNR 12.820 23.38 Phones St. Assise 5 a.m.,  
 8 a.m., Suns, 7:30-9 a.m., Daily 5-7 a.m. (12600  
 kcs.?) 2500 w.

**NEW ZEALAND, Oceania (ZKA-ZMZ) Zone 49**

**Christchurch**  
 ZL3ZC 6.000 49.97 Tues., Thurs., Fri., 10  
 p.m.-mid. EST.

**Wellington**  
 ZL2XX 4.770 62.86 (4776?)  
 ZL2XZ 6.057 49.51 Mon., Wed., Thurs., Sat.  
 12:30-4 a.m., EST.  
 ZLT 8.898 33.70 Phones VLK 1 a.m., 9 a.m.  
 ZL2XX 9.560 31.36  
 ZLW 10.980 27.30 Tests 3-8 a.m. EST.  
 (10990 kcs.?)  
 ZLW 12.286 24.40 Phones VK2ME 3-8 a.m.,  
 EST.

**NORWAY, Europe (LAA-LNZ) Zone 28**

**Bergen**  
 LGN 9.600 31.23

**PERU, South America (OAA-OCZ) Zone 16**

**La Punta**  
 OBE 13.043 23.00  
**Lima**  
 OCI 10.962 27.35 Phones HJY evenings.  
 OCI 18.670 16.06 Tests HJY abt. 2 p.m.  
 EST.

**POLAND, Europe (SPA-SRZ) Zone 28**

**Posen**  
 EATH? 8.900 33.69 Sun., Wed. 11:30 a.m.-5  
 p.m., EST.  
 EATH? 10.800 27.76 11:30 a.m., 5:30 p.m.,  
 EST.

**Poznan**  
 SR1 9.570 31.33 Tues. 12:45 p.m., 3:45  
 p.m., Thurs. 12:30-7 p.m., EST. 1000 w.  
 ..... 9.836 30.49

**PORTUGAL, Europe (CSA-CUZ) Zone 26**

**Lisbon**  
 CT1AA 6.990 42.89 Fri. 4-6 p.m. EST. (6995  
 kcs.?) 2000 w.  
 CT1AA 9.592 31.26 Tues., Thurs., Fri. 4-7  
 p.m.  
 CT1BO 10.710 28.00

**ROUMANIA, Europe (CVA-CVZ) Zone 28**

**Bucharest**  
 ..... 6.000 49.97 300 w.  
 YOI? 13.950 21.50 Institute Electrotechnique  
 Universitaire, Wed., Sat. 2-5 p.m., EST.

**SIAM, Asia (HSA-HSZ) Zone 40**

**Bangkok**  
 HS2PJ 6.080 49.31 6-6:30 a.m., EST.  
 HSP2 7.300 41.07 Administration des Postes  
 et Telegraph Tests Mon. 8 a.m.-11 a.m., EST.  
 2500 w.  
 HSP2 9.500 31.56 Administration des Postes  
 et Telegraph 9-11 a.m., daily (9640 kcs.?)  
 HS4PJ 8.100 37.01  
 HS2PJ 10.167 29.48  
 HS1PJ 17.750 16.89 7-10:30 a.m., 1-3 p.m.,  
 EST.

**SPAIN, Europe (EAA-EHZ) Zone 26**

**Barcelona**  
 EAJ25 6.000 49.97 Barcelona Radio Club,  
 Sat. 9-10 p.m., EST.

**City-Call Mags. Meters**  
 EAR25 6.120 48.99 2:30-4 p.m., EST. (6124 kcs.?)  
 EAJ1 15.760 19.02

**Madrid**  
 EAR110 6.976 43.00 Tues., Sat. 5:30-7 p.m., Fri. 7-8 p.m., EST.  
 EAR125 7.020 42.71 6-7 p.m., EST. (7025 kcs.?)  
 EAM 9.772 30.68  
 EAQ 9.862 30.40 Apartado 951. Daily 7:30-9 p.m., Sat. 1-3 p.m. (7995?) (9875 kcs.?) (9890 kcs.?)  
 EAJ7 10.090 29.70 Union Station EAJ7 5:30-6:30 p.m., irreg.  
 EAQ 19.684 15.23 Apartado 951. Phones LSY 7-11 a.m. irreg. (19720 kcs.?)

**STRAITS SETTLEMENT, Asia (VPA-VSZ, ZBA-ZJZ) Zone 40**  
**Singapore**  
 VSIAB 7.195 41.67 Mon., Wed., Fri. 9:30-11 a.m., EST. (7260 kcs.?)

**SUMATRA, Asia (PKO-POZ, UIA-UKZ) Zone 40**  
**Medan**  
 PKP 10.410 28.80 Phones Java and VLK 3 a.m., 8 a.m.

**Palembang**  
 PK4PA 59.964 5.00

**SWEDEN, Europe (SAA-SMZ) Zone 28**  
**Kalsborg**  
 SAS 11.760 25.50

**Motala**  
 ..... 3.030 98.95 11:30-noon, 4-10 p.m., EST.  
 SBG 6.065 49.43  
 SAJ 6.065 49.44 6:30-7 a.m., 11 a.m.-4:30 p.m., EST.  
 ..... 6.120 48.99 "Rundradio" 6:30-7 a.m., 11 a.m.-4:30 p.m. Holidays, 5 a.m.-5 p.m., EST.

**SWITZERLAND, Europe (HBA-HBZ) Zone 28**  
**Berne**  
 HB90C 9.130 32.84 6:30 a.m.-5:00 p.m. EST. (9375 kcs.?)

**Geneva**  
 HBP 7.790 38.49 Tests 3-8 p.m. irreg. League of Nations.  
 HBJ 14.550 20.60

**Zurich**  
 HB9XD 3.488 85.92  
 HB9XD 7.220 41.53 1st-3rd Suns. 7 a.m., 2 p.m., EST. (7229 kcs.?)  
 HB9XD 9.380 31.96

**TUNIS, Africa (F) Zone 28**  
**Constantine**  
 F8KR 3.750 79.95 See Algeria.  
 F8KR 7.005 42.80 See Algeria.

**UNION OF SOUTH AFRICA (ZSA-ZUZ) Zone 30**  
**Durban**  
 ZTD 7.400 40.52

**Johannesburg**  
 ZTJ 6.072 49.37 African Brdcast. Co. Ltd. P. O. Box 4559 (JB) 5-7 a.m., 9:30-11 a.m., 1-3:30 p.m. (6070 kcs.?) (6098 kcs.?)  
 ZTJ 7.329 40.90 9:30 a.m.-2:30 p.m., EST.

**U.S.S.R. (Russia), Europe (RAA-RUZ) Zones 30-50**  
**Khabarovsk**  
 RW15 4.273 70.20 Comm. du Peuple PTT, Far East Radio Station, Daily 3-9 a.m., EST. 20 kw.  
 RW15 8.570 34.98 5-7:30 a.m., EST.

**Leningrad**  
 RW3KAA 8.333 35.98  
 ..... 10.510 28.53 (10526 kcs.?)  
 ..... 11.111 26.08

**Minsk**  
 RW62 6.420 46.70 Comm. du Peuple PTT 150 w.

**Moscow**  
 RW54 4.273 70.18  
 RW38 5.515 54.38  
 RW38 5.614 53.40 Daily 4-9 a.m., EST. (5515 kcs.?)  
 REN 6.000 40.97 Sun., Mon., Thurs. 10 a.m.-5 p.m., EST.

**City-Call Mags. Meters**  
 RFN 6.000 49.97 Tues., Thurs., Sat. 8-9 a.m., EST.  
 RW59 6.000 49.97 Union Centrale des Syndicats Professionnels. Thurs., Sun. 4-5 p.m., EST. 20 kw.  
 REN 6.430 46.63 Relays Moscow 1-6 p.m. EST.  
 RFN 6.560 45.70 2 a.m., 4 p.m., EST.  
 RW72 6.610 45.36 10 kw.  
 REN 6.611 45.35  
 RW50 11.923 25.16 Comm. du Peuple PTT. 20 kw.  
 RW61 51.724 5.79 Institut Electrotechnique de Union. 750 w.

**Odessa**  
 RW69 1.000 157.80 Institut Sviasi. 3000 w.

**Peredvika**  
 RW65 3.560 84.22 Krestianskaia Gazeta. 20 w.

**Petrovavlovsk**  
 RW71 5.000 59.96 Narkomsviaz. 500 w.

**Tomsk**  
 RW19 8.111 36.96

**VATICAN CITY (Italy), Europe (HVA-HVZ) Zone 28**  
 HVJ 5.068 50.26 Daily 2 p.m., news in several languages and scientific information. Suns. and holidays at 5 a.m. (5965 kcs.?) 10 kw.  
 HVJ 14.850 20.19 Daily 5-5:15 a.m.; Sun., Tues. 5 a.m., EST.  
 HVJ 15.120 19.83 5-5:15 a.m., EST. (15112 kcs.?) 10 kw.

**VENEZUELA, South America (YVA-YVZ) Zone 19**  
**Caracas**  
 YV2BC 6.000 49.97 7:45-11 p.m., daily ex. Mon. (6061 kcs.?)

**Maracaibo**  
 YV1BMO 6.125 48.95 8-11 p.m., EST.

**Maraca? YVQ**  
 YVQ 11.680 25.67 Tests Germany 5-7 p.m., EST.  
 YVQ 18.296 16.39 Tests abt. 10 a.m., irreg.

**Valencia**  
 YV4BV 11.700 25.62

**YUGO-SLAVIA, Europe (UNA-UNZ) Zone 28**  
**Belgrade**  
 ..... 10.000 29.98 Mon. only 2-3 p.m., EST.

## The Summer's Changes

### POWER

550 WDEV Waterbury, Vt., 50 to 500  
 570 KVI Tacoma, Wash., 1000 to 500  
 550 KMJ Fresno, Calif., 100 to 500  
 630 CNRA Moncton, N. B., 500 to 700  
 635 CKOC Hamilton, Ont., 500 to 1000  
 635 CKTB St. Catharines, Ont., 500 to 1000  
 650 WSM Nashville, Tenn., 5000 to 50000  
 730 CMK Havana, Cuba, 3150 to 5000  
 750 KGU Honolulu, Hawaii, 1000 to 2500  
 760 KXA Seattle, Wash., 500 to 250  
 840 CKGW Toronto, Ont., 10000 to 5000  
 850 WWL New Orleans, La., 10000 to 5000  
 880 CJCB Sydney, N. S., 50 to 100  
 CKCV Quebec, Que., 50 to 100  
 890 CMX Havana, Cuba, 500 to 3000  
 940 WHA Madison, Wis., 750 to 1000  
 1030 CMHI Santa Clara, Cuba, 30 to 200  
 1080 WBT Charlotte, N. C., 5000 to 25000  
 1110 KSOO Sioux Falls, S. D., 2500 to 1000  
 1120 CHGS Summerside, P. E. I., 500 to 100  
 KRSC Seattle, Wash., 50 to 100  
 1150 CMHJ Cienfuegos, Cuba, 40 to 75  
 CMJH Ciego de Avila, Cuba, 15 to 50  
 1155 XEA Guadalajara, Mex., 101 to 500  
 1180 KOB Albuquerque, N. M., 20000 to 10000  
 1185 CMW Havana, Cuba, 1400 to 1500  
 1200 WBHS Huntsville, Ala., 50 to 100  
 WLAP Louisville, Ky., 250 to 100  
 10-BP Wingham, Ont., 15 to 25  
 1210 KFPW Fort Smith, Ark., 50 to 100  
 WGCM Gulport, Miss., 1000 to 800



1240 WKAQ San Juan, P. R., 500 to 1000  
 1270 KGCA Decorah, Iowa, 50 to 100  
 1310 KRMD Shreveport, La., 50 to 100  
 XEI Morelia, Mex., 101 to 150  
 1315 XEFB Monterrey, Mex., 50 to 100  
 1335 CMJI Ciego de Avila, Cuba., 5 to 112  
 1355 CMCY Havana, Cuba, 250 to 500  
 1370 KGFL Santa Fe, N. M., 50 to 100  
 1395 CMCH Havana, Cuba, 20 to 100  
 1450 WHOM Jersey City, N. J., 500 to 250  
 1500 WKBZ Ludington, Mich., 50 to 100

**DELETED**

595 CNRL London, Ont.  
 630 CHCS Hamilton, Ont.  
 690 CNRX Toronto, Ont.  
 730 CNRM Montreal, Que.  
 780 CNRW Winnipeg, Man.  
 818 XFI Mexico City, Mex.  
 840 CNRD Red Deer, Alta.  
 880 CNRQ Quebec, Que.  
 910 CNRS Saskatoon, Sask.  
 960 CJBR Regina, Sask.  
 CNRR Regina, Sask.  
 1120 CNRT Toronto, Ont.  
 1200 WFBC Knoxville, Tenn.  
 WNBX Springfield, Vt.  
 1210 WLCI Ithaca, N. Y.  
 1370 HRB Tegucigalpa, Hond.  
 1490 WCHI Chicago, Ill.  
 1500 WLBX Long Island City, N. Y.  
 1500 WMBWA Newport, R. I.

**FREQUENCY**

550 WDEY Waterbury, Vt., from 1420  
 570 WNYC New York City, from 810  
 580 KMJ Fresno, Calif., from 1210  
 580 WDBO Orlando, Fla., from 1120  
 750 VOWR St. Johns, N. F., from 675  
 810 WPGH New York City, from 570  
 890 KSEI Pocatello, Idaho, from 900  
 1055 XES Tampico, Mex., from 890  
 1150 CMHJ Cienfuegos, Cuba, from 1125  
 CMJH Ciego de Avila, Cuba, from 1017  
 XEA Cuadajajara, Mex., from 1000  
 1155 XEA Havana, Cuba, from 588  
 1185 CMW Missoula, Mont., from 1420  
 1200 KGVO Fort Smith, Ark., from 1340  
 1210 KFPW Gulfport, Miss., from 590  
 1240 WKAQ San Juan, P. R., from 890  
 1260 WHBC Canton, Ohio, from 1200  
 1310 XEI Morelia, Mex., from 1000  
 1335 CMJI Ciego de Avila, Cuba, from 1260  
 1355 CMCY Havana, Cuba, from 1345  
 1370 XEFZ Coyoacan, Mex., from 1500

**LOCATION**

930 WIBG Glenside, Pa., from Elkins Park, Pa.  
 1050 KFB1 Abilene, Kans., from Milford, Kans.  
 1210 WFAS White Plains, N. Y., from Yonkers, N. Y.  
 1370 KGFL Santa Fe, N. M., from Raton, N. M.  
 1420 KGKX Lewiston, Idaho, from Sand Point, Idaho  
 KUMA Yuma, Ariz., from Flagstaff, Ariz.  
 1460 WJSV Washington, D. C., from Alexandria, Va.

**CALLS**

540 CKOK Windsor, Ont., from CKWO  
 660 CMAF Havana, Cuba, from CMDC  
 1200 WPHR Petersburg, Va., from WLBG  
 1210 KASA Elk City, Okla., from KGMP  
 WFAS White Plains, N. Y., from WCOH  
 WKFI Greenville, Miss., from WRBQ  
 1370 XEFZ Coyoacan, Mex., from XETZ  
 1420 KUMA Yuma, Ariz., from KFXV

**NEW**

600 WJED Indianapolis, Ind.  
 893 VOGT Wabana, N. F.  
 1210 WHET Troy, Ala.  
 WJEJ Hagerstown, Md.  
 1420 KIDW Lamar, Colo.  
 WMAS Springfield, Mass.

**CHAINS**

570 WSYR Syracuse, N. Y., new NBC  
 620 WSUN St. Petersburg, Fla., new NBC  
 1120 WHAD Milwaukee, Wis., new CBS

1130 KSL Salt Lake City, Utah, new CBS.  
 1210 KMJ Fresno, Calif., new CBS  
 1280 WCAP Asbury Park, N. J., new CBS  
 1460 WJSV Washington, D. C., new CBS

**Permit to Change Frequency**

1310 KFYO Lubbock, Texas, to 1420  
**Permit to Change Power**  
 970 WCFL Chicago, Ill., 1500 to 5000  
 1050 KNX Hollywood, Calif., 5000 to 25000

**Permit to Change Location**

830 WHDH Boston, Mass., to Saugus, Mass.  
 1260 WLBW Oil City, Pa., to Erie, Pa.  
 1310 KGBX St. Joseph, Mo., to Springfield, Mo.

**Questions and Answers**

ON page 12, June issue, you publish an extract from a letter received from Mr. Caddell," comments Ian Murdoch, 17 Main St. W., Grimsby, Ont. "In it he states that he heard VJN calling VJNS. In the latest issue of QST, published by the Amateur Radio Relay League, I happened to notice a list of the series of calls issued to amateurs. For curiosity, I looked up Australia to see what the Hams use. I find that they are assigned the series from VHA to VMZ, and that the amateur prefix used was VK. As J and K are often mistaken for each other, no doubt Mr. Caddell received VKN. Of course, I can't guarantee that. In all my short-wave work I've never run across an Aussie amateur. Trygre Njaa's report on 2YA on a one-tube set is possible, but it sure does stretch one's imagination to receive a Zedder on a one-tube set in North Dakota. An' how! However, nothing is impossible these days, especially by the amateur who frequently does the impossible because he doesn't know it's impossible. Tell Mr. R. V. Heinzelmann that undoubtedly he heard KWSC on March 23rd. They broadcast special code-practice lessons for any amateurs or would-be amateurs who happen to be listening. It's a swell program, having heard it twice myself last winter. Maybe Mr. Harold S. Rubens heard CM CJ, as they put on a couple of early morning programs this spring. Edward L. Walters probably received WLAP as they have been testing on 1010 keys. for some time. The calls are somewhat similar in pronunciation. My log now stands at 1737 stations. Of course, it's a combination of SW and BB. Have in the proximity of 1000 stations on the broadcast band now. Just recently received verifications

from station VUB, Bombay, India, operating on 840 kcys. with 3000 watts. This was heard on March 29th at approximately 6 a.m. Haven't heard of anyone else verifying this yet."

"I noticed in your last issue that Mr. R. LaRocque, of Worcester, Mass., wanted information about VE9LP," writes H. A. Jamison, 24 Glencairn, Toronto, Ont. "It is owned by CKAC and is used during the winter to broadcast the hockey games. It is used so that CKAC can use its full time for its schedule. It is CKAC's old station and I think uses 750 watts. (You can verify it from your back issues). It hasn't any definite location, but the last broadcast was on 930 kcys. I want to thank you for that picture of Jack Denny. It's the first one I've seen that really resembles him. I guess you will have noticed by this time that broadcasting in Canada is likely to become national. I don't know just how it will turn out, but we'll soon see."

"On the evening of August 1st, I received on my 9-tube Stromberg-Carlson Neutrodyne, a station announced as WKW someplace in Tennessee," says Richard Umbach, 2526 East Drive, Fort Wayne, Ind. "This station was on either 1490 or 1500 and was received from 10:15 to 10:30 p.m., EST. A man was giving a political speech from which it seemed that he was seeking the nomination as Governor of Tennessee. I would appreciate it very much if you could inform me if there is such a station or whether I heard the call letters wrong." WKW is a s.w. station in Rocky Point, N. Y. It is hardly likely this could have been your station and we find no station in Tennessee nor on 1490 or 1500 whose call could have been heard as "WKW." Perhaps some of our other readers can help you.

"Miss M. Stannard, 522 Sunset Ave., Rockford, Ill., would like to know the station which broadcasts the program known as the 'Four Horsemen,'" says Carroll H. Weyrich, 6 N. Gorman Ave., Baltimore, Md. "I have a verification from station WMAZ, Macon, Ga., 1180 kcys., in which they state that the 'Four Horsemen of Harmony' are on the air each evening from 7-7:30 p.m., EST."

"Can any of your readers tell me what station broadcast a program of old time music at about 1:30 a.m., CST., April 10, 1932?" asks Raymond Sereikas, 3243 So. Emerald Ave., Chicago, Ill. "This old-time fiddlers' orchestra was called the 'Rough Riders.' The call letters sounded something like WO—. I couldn't get it clearly. WFIW was interfering."

"Does KEJ call Coco Head every night?" inquires Harold Wagner, 908 E. 6th St., Erie, Pa. "I have been getting a station with chain programs whose announcer says he is broadcasting for stations K— and — in Honolulu. I don't know what his call letters are, but they sounded like KEJ. This station announces about a minute ahead of the regular time, and comes in best from 10:15-10:45 p.m., EST."

Short wave programs from Central America soon will be broadcast from a new 50,000-watt radio station to be built at Villa Fuente, three miles from Piedras Negras. Permit for the \$75,000 station has been secured. Two 300-foot towers, similar to those at XER, Dr. J. R. Brinkley's station in Villa Acuna, Coahuila, will be erected. Studios will be maintained at Piedras Negras and Eagle Pass.

"May I inform you that CKOW is not broadcast from Toronto, Ont.," informs D. McNeil, 60 Chestnut Ave., Hamilton, Ont. "CKGW and CPY are the 840 kc. Toronto stations. Mr. T. Hill must be mistaken."

"I would like to hear from other DXers, especially those who have received our local 100-watter, KREG," requests Victor Rowland, 520 Virginia St., Santa Ana, Calif.

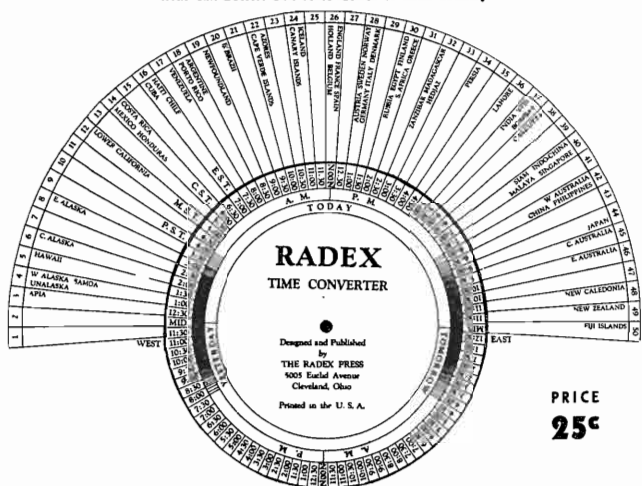
Fred B. Murray, 3512½ Pine Grove Ave., Chicago, Ill., would like to hear from other owners of the Star Raider, 13-tube receivers.

## The October Radex

will have a list of the S-W stations arranged by frequencies. There will be a new list of the Trans-Pacific Broadcast Stations — Japan, Australia and New Zealand — arranged by frequencies. The Call Letter Index will give the time of all stations for Mondays and there will be an October Calendar of Special DX programs. Order a copy now from your newsdealer or use the blank on page 22.

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with Call Letters and Time Zones of each Country



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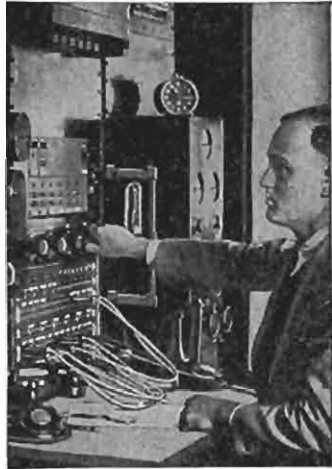
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