

THE SEPTEMBER 1932

RADIO INDEX

THE ALL-WAVE RADIO MAGAZINE



25^c

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?

SEPTEMBER DX CALENDAR

1 — THURSDAY

11:00 PST CHWK Chilliwack, B. C.
12:00-2:30 EST WMIL Toronto, 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 Poncea City, Okla.
12:00-2:00 EST WCAH Columbus, Ohio
12:00-2:00 EST WGBI Seranton, Pa.
12:00 EST WWRL Woodside, N. Y.
12:30-2:30 CST WOW Omaha, Neb.
1:00-5:00 EST 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 Poncea City, Okla.
12:00 CST KUSD Vermillion, S. D.
12:00-2:00 EST WCAH Columbus, Ohio
12:00-2:00 EST WGBI Seranton, 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 EST 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.
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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 EST 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.
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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

11:30-1:00 MST KGEK Yuma, Colo.
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 Seranton, 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 WCLD 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

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.

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Please mention RADEX

SEPTEMBER 1, 1932



RADIO INDEX

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 sightly 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 superheterodyne 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.

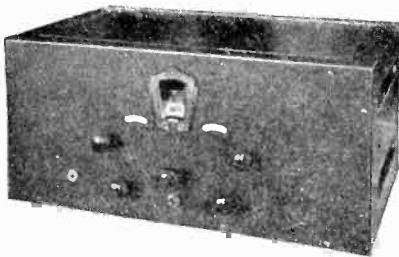
The Pilot company (Pilot Radio & Tube Co., Lawrence, Mass.) has a



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.

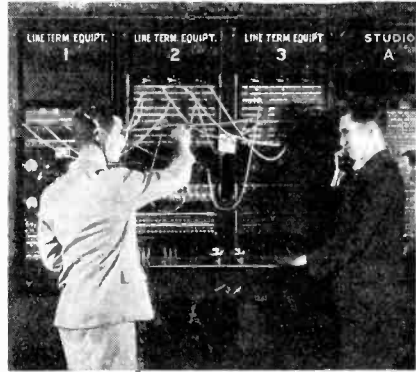
The Hammarlund Comet



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

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Do VERIFICATIONS Really VERIFY?

WHAT 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 peevisish 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

THE 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 NRC-WVEAF 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?

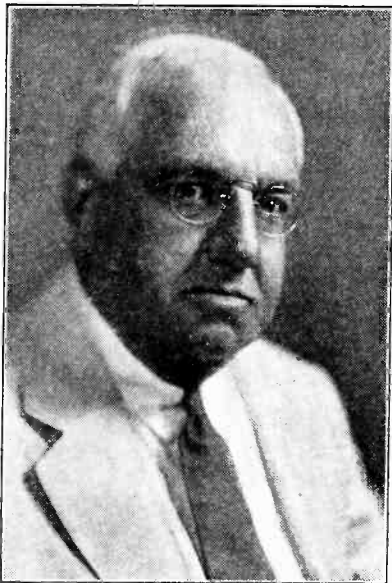
Of course you must not lose sight of the fact that this is a new and modern set and the tubes used in it are found to be best by the manufacturer. We believe however that the pentodes could be substituted for the -30s, or even -31s (power amplifiers) in place of the -30s

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 $22\frac{1}{2}$ 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"

PRESENTING 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 1235 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 trasmission that we above explain also if you can heard daily or temporaly 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 Braggotti, 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

IN 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."

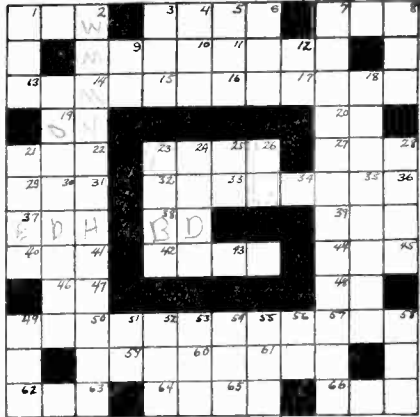
In the mathematical puzzle, No. 2, RADEX was transposed into 07518 and PRESS into 60144.

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, WKAV, 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 Coloradoan.
 - 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 1310.

"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; KGEK, 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.

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.

OLD FRIENDS and NEW IDEAS

With the Inventors
and Manufacturers

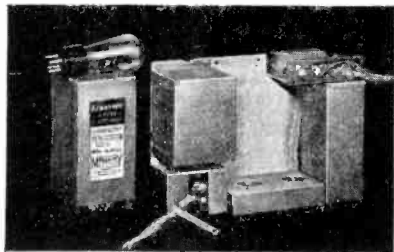
A SYSTEM whereby as many as 3,000 radio receiving sets can operate independently on the same antenna without interfering with each other has been perfected, according to an announcement by the Western Electric Company. By adding further apparatus, the number of sets can be increased indefinitely without 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

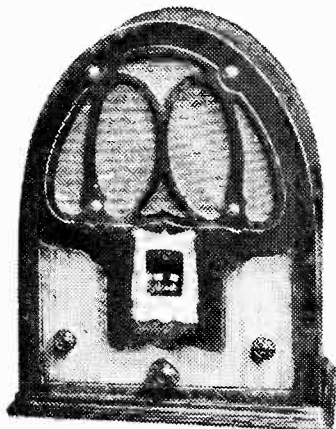
baby's cradle so that the slightest sound in the nursery is transmitted through the radio set to the parents in the living room. All the apparatus required is a Universal Baby Mike and a Junior Input Stage both of which are manufactured by the Universal Microphone Co., Ltd., Inglewood, Calif. They are 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 Groun-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

HOW 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., EDST.

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

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

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 "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.

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

IN 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?

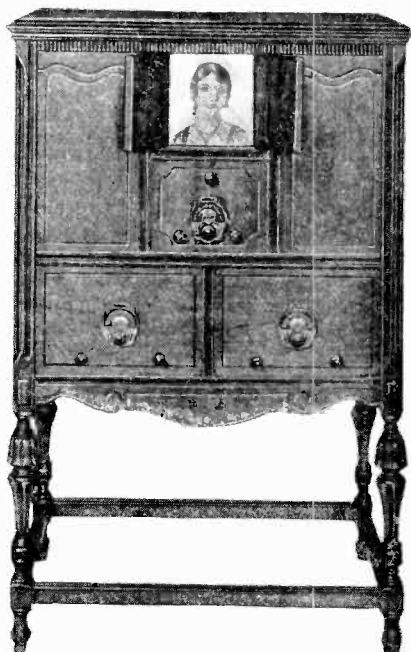
"Moonshine and Honeysuckle" has enjoyed unusual popularity on the air. It is one of the first radio series ever at-

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

IT 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 keys. 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 airline, 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 Philco 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 keys., 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 kcy. channel, having relinquished the 760 kcy. 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 verified. 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

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 KFYP KPRC KSTP
KTBS WAPI WBNW WCAE WCFL
WKY WCSP WDAF WDAF WEEI
WFBR WFI WFLA WGY WIBA
WIOD WIS WJAR WJAX WJDX
WJY WOAI WOV WPTF WRC
WRVA WSB WSM WSMB WTAG
WTAM WJW 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
WDBO WDOD WDRC WDSU WEAN
WFBL WFEA WGR WGST WHAS
WHFC WHIP WJAS WKBN WLWB
WMAL WMBD WOKO WORC WPG
WQAM WSPA 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 KFYP KOA KOIL KPRC
KSL KSTP KVOO KWK WAPI
WBAL WBZ WBZA WCKY WDAY
WERC WFAA WFLA WGAR WHAM
WIBA WIOD WIS WJAX WJDX
WJR WJZ WKY WMC WOAI 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 KJFK KFRC KHJ KLRA KLZ
KOL KRLL KSCJ KTRH KVOR
WABC WBBM WBIG WBT WCAH
WCAO WDBJ WDOO WDOD WDRC
WDSU WEAN WFAN WFBL WFEA
WGR WGST WHAS WHFC WIBW
WIP WISN WJAS WKBH WKBN
WLWB WMAL WNAC WNAX WNOX
WODX WOKO WORC WOV WPG
WQAM WREC WSPA 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 KFYP KOA KOIL KPRC
KSTP KTBS KTHS KVOO KWCR
KWK KYW WAPI WBAL WRZ
WBZA WCKY WDAF WDAF WECB
WFAA WFLA WGAR WHAM WHO
WIBA WIOD WIS WJAX WJDX
WJR WJZ WKY WLW WMC WOAI
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 Rhythm Boys**

WBNW WCAE WCHS WDAF WEEI
WENR WFBZ WGY WJAR WLIT
WRC WSAI WTAG WTAM WJZ

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

R — **Andy Sannella and Orchestra**

CFCF KEK KGA KJR KOA KPO
KSD KSTP KTBS WBNW WDAF
WEAF WECB WGY WIOD WJAR
WJDX WKY WMAQ WOV 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 WDBO
WDOO WDRC WDSU WFAN WFBL
WFEA WGST WHAS WIBW WIP
WISN WJAS WKBH WKWB WLWB
WMAL WNAX WNOX WOKO WORC
WOWO WQAM WREC WSPA WTAQ
WTAR WTOC

R — **Waldorf-Astoria Orchestra**

KSD KYW WBNW WCAE WDAF
WEAF WEEI WFBZ 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 WDBO WDOD WDRC WDSU
WEAN WFAN WFBL WFEA WGR
WGST WHAS WHFC WHIP WIBW
WIP WISN WJAS WKBH WKBN
WLWB WNAX WNOX WOKO WORC
WOWO WQAM WREC WSPA 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 WDBO WDOD WDSU
WFEA WGST WORC WREC WSPA
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 WCAO WDAE
WDBJ WDBO WDOD WGST WHAS
WHIP WISN WJAS WKBH WKBN
WKWB WLWB WNAX WNOX WOKO
WORC WOWO WQAM WREC WSPA
WSPD WTAQ WTAR WTOC WWVA

R — **Donald Novis, Tenor**

KECA KFX KFSB KGA KJR KOA
KPO KSD WAPI WDAF WFBZ WFI
WHO WIS WMAQ WOC WSAI WSB
WSM WWJ WWNC

B — **Lowell Thomas**

CKGW KDKA WBAL WBZ WBZA
WGAR 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
WDRC WEAN WFBL WGR WJAS
WKRK WMAL WNAC WOKO WSPD
WWVA

R — **Harriet Lee and Her Leaders**

KFI KFSB KGO KHQ KOA WBNW
WEAF WJAR WMAQ WTAG

B — **Amos 'n' Andy**

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

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 WDBO WDOD WDRC WEAN
WFBL WGR WGST WHFC WHIP
WISN WJAS WKBH WKBN WMAL
WNAC WNAX WNOX WOKO WORC
WOWO WQAM WREC WSPA 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**

WBNW WCAE WCHS WEAF WEEI
WFBZ 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 WBAL 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
WHFC WHK WHIP WISN WJAS
WKBN WMAL WNAC WNAX WNOX
WODX WOKO WORC WQAM WREC
WSPA WSPD WTAQ WTAR WTOC
WWVA

R — **The Goldbergs**

KSD WBNW WCAE WCHS WDAF
WEAF WEEI WENR WFBZ 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 WRN WRVA
WSB WSM WSMB WUNC

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

CFRB CKOK KDYL KFAB KFJF
KFYF KFRC KGB KHJ KMBC
KOH KOL KRLD KSCJ KTRH KV1
WABC WACO WBCM WBIG WBRC
WBT WCAO WCCO WDAE WDBJ
WDBO WDDO WDRC WDSU WEAN
WFAN WFBL WFBM WGL WGR
WGST WHEC WHK WHP WIP
WISN WKBH WKBN WMAL WNCM
WNAX WNOX WODX WOKO WQAM
WSPA WTAQ WTAR WTOC WVVV

R—Soconyland Sketches
WBEN WCSH WEAF 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—Singer's Sam
CKOK KMBC KMOX WABC WADC
WCAO WCAU WCCO WDRC WEAN
WFBL WFBM WGN WGR WHK
WJAS WTAQ WTAR WNCM WOKO
WSPD

ED-8:30 p.m., E-7:30, C-6:30, M-5:30
C—Kate Smith, La Palina
CKOK KFAB KFJF KFRC KMBC
KMOX WABC WADC WBCM WCAH
WCAO WCAU WCCO WFBL WFBM
WGN WGR WHAS WHEC WHK
WISN WJAS WKBN WKRC WMAL
WOKO WSPD

R—Voice of Firestone
CFCE CKGW KPRC KSD KTBS
KTHS KVOO WABI WVEN WCAE
WCSH WDAF WDAF WEEI WFAA
WFBR 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 WVVJ WVNC

ED-8:45 p.m., E-7:45, C-6:45, M-5:45
C—Col. Stoenagle and Budd
CKOK KMBC KMOX WABC WADC
WCAO WCAU WDCR WEAN WFBL
WGN WGR WHK WJAS WKRC
WMAL WNCM WOKO WSPD

ED-9:00 p.m., E-8:00, C-7:00, M-6:00
R—A. & P. Gypsies
KSD WBEN WCAE WCSH WEAF
WEEI WGY WHO WJAR WLIT
WTAQ WOC WOV WRC WSAI
WTAG WTAM WVIC WVVJ

B—Sinclair Wiener Minstrels
KDKA KFYR KOIL KPRC KSTP
KTBS KVOO KWCR KWK WBAL
WBZ WDAF WDAY WDBC WFAA
WFLA WGAR WHAM WJAX WIOD
WIS WJAX WJDX WJZ WKY WLS
WMC WOAI WPTF WRN WRVA
WSB WSM WSMB WTMJ WVVV

ED-9:15 p.m., E-8:15, C-7:15, M-6:15
C—Mills Brothers
CKOK KMBC KMOX WABC WADC
WCAO WCAU WDCR WEAN WFBL
WGN WHAS WHEC WHK WJAS
WKBW WKRC WMAL WNCM WOKO
WSPD

ED-9:30 p.m., E-8:30, C-7:30, M-6:30
C—Surprise Package
CFRB CKOK KDYL KFAB KFJF
KFYF KFRC KHJ KLRA KLZ KMBC
KRLD KSCJ KTRH KVOR WABC
WBMM WBCM WBIG WBRC WBT

WCAH WCAO WCAU WCCO WDAE
WDBJ WDOO WDOD WDRC WDSU
WHEC WFBL WFBM WFEA WHAS
WHEC WHK WJAX WJAX WJAS
WKBB WKBW WLWB WMAL
WNAC WNAX WNOX WODX WOKO
WORC WQAM WREC WSPD WTAQ
WTAR WTOC

R—General Motors Program
KFI KFYR KGO KGW KHQ KOA
KOMO KPRC KSD KSL KSTP WBEN
WCAE WCSH WDAF WDAF WEEI
WENR WFAA WFBR WGY WHO
WJAR WKY WLIT WMC WOAI
WOC WOW WRC WSAI WSB WSM
WTAG WTAM WVIC WTMJ WVVJ

B—Jack Benny, Geo. Olsen
CFCE CKGW KDKA KOIL KWCR
KWK WBAL WBZ WBA WGAR
WHAM WJR WJZ WLV WMAQ
WREN

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

CKOK KDB KDYL KERN KFBC
KFH KFJF KFYF KFRC KGB KHJ
KLRA KLZ KMBC KMJ KMOX
KOH KOIN KOL KRLD KTRH KTSA
KV1 KWG WABC WADC WBRC
WBT WCAO WCAU WCCO WDBJ
WDRS WDSU WEAN WFBL WFBM
WGN WGST WHAS WHEC WHK
WISN WJAS WKBW WKRC WLAC
WLBY WMAL WMBG WMT WNC
WOC WOW WPG WRFK WRUF
WSPD WTAR

R—National Radio Forum
KUSD KFYR KGHJ KGIR KGO
KGW KOA KOMO KPRC KSD KSL
KSTP KTBS KVOO WBEN WCSH
WDAF WDAF WDBC WEEI WENR
WFLA WGY WHO WJAX WIOD
WJAR WJDX WKY WLIT WMC
WOAI WOC WOW WPTF WRC
WRVA WSAI WSB WSM WTAG
WTAM WVVJ WVNC

B—Phillips Lord, Country Doctor
CFCE CKGW KDKA KOIL KWCR
KWK WBAL WBZ WBA WJAX
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 WBA WGAR WHAM WJZ
WLV WMAQ WREN

ED-10:30 p.m., E-9:30, C-8:30, M-7:30
C—Guy Lombardo and Orchestra
CFRB CKOK KDYL KFBC KFJF
KFYF KFRC KHJ KLRA KLZ KMBC
KMOX KOL KRLD KSCJ KTRH
KVOR WAAB WABC WBCM WBIG
WBRC WBT WCAH WCAO WCAU
WCCO WDAE WDBJ WDBO WDDO
WDRS WDSU WEAN WFBM WFEA
WGST WHEC WHK WHP WIBW
WJAS WKBH WKBW WLWB WMAL
WMBD WNAX WNOX WOKO WORC
WORO WOV WQAM WREC WSPD
WVIC

B—"Tish"
CFCE KFYR KSTP KTBS KVOO
KWCR KYW WBAL WCKY WEEI
WHAM WJAX WJAX WJAX WJAX
WJZ WREN WSM WVNC

ED-10:45 p.m., E-9:45, C-8:45, M-7:45
C—Myrt and Marge
CKOK KDYL KFBC KFYF KFRC
KHJ KLZ KMBC KMJ KOIN KOL
WBMM 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 KFBC
KFJF KFRC KHJ KLRA KMBC
KMOX KSCJ KTRH KVOR WAAB
WABC WBCM WBIG WBRC WBT
WCAH WCAO WDAE WDBJ WDBO
WDDO WDRC WDSU WEAN WFBL
WFBM WGST WHAS WHK WHP
WIBW WJAS WKBN WKBW WLWB
WMAL WMBD WNAX WNOX
WOC WORC WOW WPG WQAM
WREC WSAI WSPD WTOC

R—Paul Whiteman and Orchestra.
WEAF WEEI WFBR WJAR WLIT
WRC

B—Amos 'n' Andy
KFI KFSO KGO KGW KHQ KOA
KOIL KOMO KPRC KSL KSTP
KTHS KWG WBAF 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 KFSO KGO KGW KHQ KOA
KOMO KPBC KSD KSL KSTP
KTAR KTBS KTHS WAPI WBAP
WDAF WENR WHO WJDX WKY
WMC WOAI WOC WBS WSM WSMB
WTAM WTMJ WVVJ

B—Summer Symphony
CFCE KTBS KWCR WBAL WCKY
WENR WHAM WOD WJZ WREN
WSB

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

C—Charles Carille, Tenor
CKOK KFBC KFJF KFRC KLRA
KMBC KMOX KSCJ KTRH KVOR
WAAB WABC WBCM WBIG WBRC
WBT WCCO WDAE WDBJ WDBO
WDDO WDRC WDSU WEAN WFBM
WGST WHAS WHEC WHP WJAS
WKBN WKBW WLWB WMAL
WMBD WNAX WNOX WOKO WORC
WOWO WQAM WREC WSPA WSPD
WTAR WTOC

R—Voice of Firestone
KFI KFSO KFYR KGHJ KGIR KGO
KGU KGW KHQ KOA KOMO KSL
KSTP KTAR WDAY WECB 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 KFBC
KFJF KFRC KHJ KLRA KMBC
KOL KSCJ KTRH KVOR WAAB
WABC WBCM WBIG WBRC WBT
WCAH WCAO WCCO WDAE WDBJ
WDBO WDDO WDRC WDSU WEAN
WFAN WFBL WFBM WGL WGST
WHAS WHEC WHP WIBW WIP
WISN WKBN WKBW WLWB WMAL
WMBD WNAX WNOX WOKO WORC
WQAM WREC WSAI WSPD WTAR
WTOC WVVV

R—Baron Lee and Orchestra
WEAF WEEI WFBR WJAR WRC
WVIC

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

C—Eddie Duchin and Orchestra
CKOK KDYL KFAB KFBC KFJF
KFYF KFRC KHJ KLRA KMBC
KOL KRLD KSCJ KTRH KVOR WABC
WBMM WBRC WBT WCAH WCAU
WCCO WDAE WDBJ WDBO WDDO
WDSU WEAN WFBL WFBM WGL
WGST WHAS WHEC WHP WIBW
WISN WKBN WKBW WLWB WMAL
WMBD WNAX WNOX WOKO WORC
WPG WQAM WREC WSPA WSPD
WTAR WTOC WVVV

Monday—Continued

ED-12:05 a.m., E-11:05, C-10:05, M-9:05
R — Buddy Rogers and Orchestra
 KSTP WAFI WCAE WCKY 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 McCoys' Orchestra
 KOIL KWCR WBAL WJR WJZ WLW
B — Billy Jones and Ernie Hare
 KFI KFSD 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
R — 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 WUNC

ED-6:45 p.m., E-5:45, C-4:45, M-3:45
R — Back of the News in Washington
 KFI KFSD KGHJ KGIR KGO KOA
 KSD KTAR WAFI WFAF WFBF
 WFI WIOD WIS WJAR WJDX
 WMAQ WQW 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 KGIR KGO KOA KSD KTAR
 WAFI WBEF WFAF 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 KVOA WABC
 WACO WBCM WBIG WBRC WCAO
 WCAU WCCO WDAE WDBJ WDBO
 WDOD WDRC WDSU WEAN WFBL
 WGR WGST WHAS WHEC WHP
 WISN WJAS WKBH WKRN 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 WCHS
 WFAF WEEI WFBF WFI WGY
 WHO WJAR WOC WOV 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, George 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 WDAE WCKY 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
 WCHS WDAF WFAF WBEBC 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 WCHS WDAF WFAF WEEI
 WFBF 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 Lov, Song Recital
 CKGW KDKA KEX KFYZ KJR
 KOIL KPO KSTP KTBS KVVO 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 KFPY KIJ KLRA KLZ
 KMBC KMOX KOL KRLD KTRH
 KVOA WABC WACO WBCM WBIG
 WBRC WBT WCAH WCAO WCAU
 WCCO WDAE WDBJ WDOD WDOD
 WDRC WDSU WFBL WFBM WFEA
 WGL WGST WHAS WHEC WHP
 WISN WJAS WJAS WKBH WKBN
 WKBW WMAL WNAC WNAX WNOX
 WODX WORC WQAM WREC WRUF
 WSPD WTAQ WTAR WTOC WVVVA

R — National Artists' Series
 CKGW KEX KGA KJR KOA KPO
 KTAR KTBS WBEN WCAE WCHS
 WDAF WFAF WFBF WFI WFLA
 WGY WHO WIOD WJAR WKY
 WMAQ WMC WOA I WOC WTAG
 WTAM WWNC

B — Household Program
 KDKA KWK WBAL WBEN WBZ
 WBZA WBEBC WHAM WIBA WJR
 WJZ WLS WTMJ

ED-9:30 p.m., E-8:30, C-7:30, M-6:30
C — Eno Crime Club
 CKOK KMBC KMOX WABC WADC
 WCAO WCAU WDRC WEAN WFBL
 WGN WHK WJAS WKBW WKRC
 WMAL WNAC WSPD

R — Ed Wynon-Don Voorhees
 CPCE KFI KFSD KFYZ KGHJ
 KGIR KGO KGW KHQ KOA KOMO
 KPRC KSD KSL KSTP KTAR KTBS
 KVOO WBAF WBEN WCAE WCHS
 WDAF WDAY WFAF WBEBC WEI
 WFBF WFI WGY WHO WIBA
 WIOD WIS WJAR WJAX WJDX
 WKY WMAQ WMC WOA I WOC
 WOW WPTF WRC WRVA WSAI
 WSB WSMB WTAG WTAM WTMJ
 WWJ WWNC

B — Friendship Town
 KDKA 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 KFSD KFYZ KGO KGW KHQ
 KOA KOMO KPRC KSD KSL KSTP
 KTAR KTBS KTHS KVVO WBAF
 WBEN WCAE WCHS WDAF WDAY
 WFAF WBEBC WEEI WENR WFBF
 WFI WFLA WGY WHO WIBA WIOD
 WIS WJAR WJAX WJDX WKY
 WMC WOA I 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
 WDOD WDRC WEAN WFBL WFBM
 WHK WJAS WKBW WKRC WMAL
 WOKO WOV WQAM WSPD WTOC

B — Sigmund Spaeth, Tune Detective
 CPCE KWCR WBZ WBAZ WGAR
 WJZ

ED-10:30 p.m., E-9:30, C-8:30, M-7:30
C — Isham Jones and Orchestra
 CFRB CKOK KDYL KFAB KFBK
 KFJF KPRC KGB KHJ KLRA KLZ
 KMBC KOH KSCJ KTRH KTSa
 KVI KVOA WAAB WABC WBCM
 WBG WBRC WBT WCAH WCAO
 WCAU WCCO WDAE WDBJ WDOD
 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
 CPCE CKGW KDKA KEX KFYZ
 KGA KJR KOA KPO KSTP KTBS
 KWCR WBAL WCKY 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 KFPY KPRC KGB KHJ
 KLRA KLZ KMBC KMOX KOH
 KOL KRLD KSCJ KTRH KTSa
 KVI KVOA WAAB WABC WACO
 WBCM WBIG WBRC WBT WCAH
 WCAO WCAU WCCO WDAE WDBJ
 WDOD 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 WDAF WFAF WEEI
 WFBF 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
 KFPY KPRC KGB KLRA KLZ
 KMBC KMOX KOH KSCJ KTRH

Tuesday—Continued

KVOR WABC WACO WBCM WBRC
WBT WCAH WCAU WDAE WDBJ
WDBO WDOD WDSU WDEAN WFBM
WGST WHAS WHEC WHF WHP
WISN WKBN WKBW WLWB WMBD
WNAC WNAX WNOX WOKO WOWO
WQAM WREC WSPA WSPD WTAR
WTOC

ED-12:05 a.m., E-11:05, C-10:05, M-9:05
R—Paul Whiteman and Orchestra
CFOP KEX KGA KGO KGW KHQ
KJR KPO KTBS WBN WCAE
WDAF WFAA WFLB 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. Agnew 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—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 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 WGTB WORC WREC WSPA
WTAR WTOC

R—Harding Sisters, Organ-Piano
KEX KFSD KGA KJR KTBS WAPI
WEAF WFBF WFI WIOD 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—Funnynobers, 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 WDEAN
WFLB WGR WGST WHAS WHEC
WHP WISN WJAS WKBB WKBN
WMAJ WNAC WNAX WNOX WOKO
WORC WOWO WQAM WREC WSPA
WSPD WTAG WTOC

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

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 WSPA WSPD WTAG
WTAR WTOC WWVA

R—The Gledbergs, 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 WBN WCAE WCHS WDAF
WEAF WEEL WFBF WGY WHO
WJAR WLIT WLS WOC WOW
WRC WSAI WTAG WTAM WTIC
WWJ

B—American Taxpayers' League
KDKA KFSD KFH KGR KGO
KOA KOIL KOMO KTR KTBS
KWCR KWK KYW WBAL WDAY
WFAA WFLA WIBA WIOD WJAX
WJDX WJZ WKY WMC WOAI
WPTF WREN WSM WWNC

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

ED-8:30 p.m., E-7:30, C-6:30, M-5:30
C—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 KEJF KMBC KMOX KTRH
KTSB WABC WADC WCAO WCAU
WCCO WDRS WEAN WFBL WFBM
WGN WHK WJAS WKBB WKRC
WMAJ WNAC WOKO WOWO WRR
WSPD

R—Goodyear Program
KFYR KPRC KSD KSTP KTHS
KVOO KYW WBN WCAE WCHS
WDAY WEAF WECB WEEI WFAA
WFBF WFLA WGY WHO WIBA
WIOD WIS WJAR WJAX WJDX
WKY WLIT WMC WOAI WOC
WOW WPTF WRC WRVA WSAI
WSB WSM WSMB WTAG WTAM
WTIC WTMJ WWJ WWNC

B—Island Boat Club Dance
KDKA KWK WBAL WBZ WRZA
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—Mobilioi Concert
KFI KFYR KGO KGW KHQ KOA
KOMO KPRC KSD KSL KSTP
KTR KVoo WBN WCAE WCHS
WDAF WDAY WEAF WECB WEEI
WENR WFAA WFBF WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLIT WMC
WOAI 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 KHGL KGR KGO KGW KHQ
KOA KOMO KSD KSL WBN WCAE
WCHS WDAF WFAE WEEI WENR
WFBF 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 WBBM WCAO WCAU
WCCO WDRS WDSU WEAN WFBL
WHAS WHK WJAS WKBB WKRC
WMAJ WOKO WOWO WSPD
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.

R—Archer Gibson, Organist
KECA KEX KFYR KGA KHGL
KGR KJR KOA KPO KSL KTBS
WCAE WCHS WFAE WECB 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
CFCT CKGW KSD WEAF 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 Sodero's Orch., See Tuesday

C—Ozzie Nelson and Orchestra
CFRB CKOK KDYL KFAB KEJF
KFPY 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 WDD WDRS
WDSU WEAN WFBM WGST WHAS
WHEC WHK WHP WHW WISN
WKBB WLWB WMAJ WMBD
WNAX WNOX WOKO WORC WOWO
WQAM WREC WSPA WSPD WTAR
WTOC

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

ED-12:00 p.m., E-11:00, C-10:00, M-9:00
C—Eddie Duchin and Orch., See Mon.

B—Baron Lee and Orchestra
KDKA KOIL KWC WBAJ 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 KEJF
KLRA KLZ KMBC KOH KTRH
KVOR WABC WACO WBCM WBRC
WBT WCAH WCAO WCAU WCCO
WDAE WDBJ WDBO WDOD WDSU
WEAN WFBL WFBM WGST WHAS
WHEC WHP WHW WISN WKBB
WLWB WMAJ WMBD WNAC WNAX
WNOX WOKO WQAM WREC WSPA
WSPD WTAR WTOC

B—Jones and Hare, See Monday

THURSDAY

ED-8:30 a.m., E-7:30, C-6:30, M-5:30
R—Cheerio, 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 WFAF
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—Fleischmann, Rudy Vallee
CFCF CKGW KFI KFJR KGO KGW
KHQ KOA KOMO KPRC KSD KSL
KSTP KTAR KVOO WAPI WBAP
WBEN WCAE WCKY WDSH WDAF
WDAY WDCU WECB WEEI WFBR
WFI WFLA WGY WHO WIOD WJAR
WJAX WJDX WKY WMAQ WMC
WOAI WOC WOW WPTF WRC
WRVA WSAI WSB WSM WSMB
WTAG WTAM WTMJ WWJ
B—Regimentals, 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
CKOK KMBC KMOX WAAB WABC
WADC WCAO WCAU WDRC WFBL
WFBM WGN WGR WHK WJAS
WKRC WMAL WOWO 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
KFYR KGHL KGIR KOA KPRC
KSD KSL KSTP KTBS KTBS KVOO
WAPI WBAP WBEN WCAE WDSH
WDAF WDAY WFAF WECB WEEI

WFBR WFI WFLA WGY WHO
WIBA WIOD WIS WJAR WJAX
WJDX WKY WMAQ WMC WOAI
WOC WOW WPTF WRC WRVA
WSAI 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
CKOK 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
WDSH WDAF WFAF WEEI WENR
WFI WGY WHO WJAR WOC WOW
WRC WSAI 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 WECB
WFLA WGAR WHAM WIOD WJAX
WJDX WJR WJZ WKY WLW WMC
WOAI 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 Sodero'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
CKOK KDYL KFAB RFBP KFH
KFJF KPFP KPRC KLRA KLZ
KMBC KMOX KOH KOL KRID
KSCJ KTRH KTSa KVI KWOR
WABC WBCM WBRB WBT WCAU
WCAU WCOU WDAE WDBJ WDBO
WDOB WDSU WEAN WFBL WFBM
WGST WHAS WHEC WHP WIBW
WISN WKBN WKBW WLWB WMBD
WNAC WNAX WNOX WODX WOKO
WOWO WQAM WRBC WSPD WTAR
WTOC

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

ED-12:30 a.m., E-11:30, C-10:30, M-9:30
B—Pacific Serenaders
KFYR 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—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-6:15 p.m., E-5:15, C-4:15, M-3:15
B—Graham Prince and Orchestra
KFYR 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 KFI
KFJF KLRA KLZ KOH KSCJ KTRH
KTSa WAAB WABC WBCM WBIG
WBRB WCAH WCAO WDBJ WDBO
WDOB WDSU WFBL WGSB WHAS
WHEC WHP WISN WJAS WKBH
WKBW WLWB WNAW WNOX
WOKO WORC WOWO WQAM WRIC
WSPA WSPD WTAQ WTAR WTOC
WWVA

R—Merry Madcaps Dance Orchestra
KGO KOA KSD WCAE WFAF 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 KTBS KVOO KYW WBEN
WCAE WDSH WDAF WFAF WECB
WEEI WFAA WFBP WGY WHO
WJAR WKY WLIT WQAI WOC
WOW WRC WSAI WTAG WTAM
WTIC WTMJ WWJ
B—Nestle's Program
KDKA KOIL KWK WBAL WBZ
WBAZ WCKY WGAR WHAM WJR
WJZ WLS WREN

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

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

Friday—Continued

WIEFC WHP WISN WJAS WKBH
WMAL WNCN WNAX WNOX WOKO
WORC WPG WQAM WREC WSPD
WTAQ WTAR WTOC WVVVA

B—Candle-Lightin' Time
KDKA KOIL KTBS WBAL WBZ
WBZA WKY WFAA WFLA WGAH
WHAM WIOD WJAX WJWR WJZ
WKY WMAQ WMC WOAI WREN
WSB WSM

ED-9:00 p.m., E-8:00, C-7:00, M-6:00
C—Kodak Week-End Hour
COKK KLZ KMBC KMOX WABC
WADC WCAO WCAU WCCO WDRC
WEAN WFBL WFBM WGN WHEC
WHK WJAS WKJB WKRC WMAL
WNAC WOKO WSPD

R—Cluget Club
KSD WBEN WCAE WCSH WDAF
WDAF WEEL WFBR WGY WHO
WJAR WLIT WMAQ WOC WWC
WRC WSAI WTAG WTAM WTC
WVJ

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

COKK KMBC KMOX KRLL WABC
WADC WCAO WCAU WCCO WDRC
WEAN WFBL WFBM WGN WGST
WHAS WHK WJAS WKJB WKRC
WMAL WNAC WOKO WSPD

R—Pond's Program
KSD WBEN WCAE WCSH WDAF
WDAF WEEL WFBR WGY WHO
WJAR WLIT WOC WOV WRC
WSAI WTAG WTAM WVV

B—Armour Program
KDKA KFI KGW KHQ KOA
KOIL KOMO KPRC KSL KSTP
KWK WAPI WBAI WBZ WBZA
WBCW WFAA WGAR WIAM WIOD
WJAX WJR WJZ WKY WMAQ
WMC WOAI WREN WRVA WSB
WSM WSMB WTMJ WVNC

ED-9:45 p.m., E-8:45, C-7:45, M-6:45
C—Jay C. Flippen, 4 Eton Boys
CFBR CKOK KDYL KFBK KFH
KFJF KPHC KHJ KLRA KLZ KMBC
KMOX KOH KOL KRLL KSCJ
KTRH KVI KVOR WABC WBCM
WBIG WBRC WBT WCAH WCAO
WCAU WCCO WDAE WDBJ WDBO
WDOD WDRC WDSU WEAN WFBL
WFBM WFEI 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 Whiteeman and Orchestra
KFI KFJR KGO KGW KHQ KOA
KOMO KSD KSL KSTP WBEN
WCAE WCSI WDAF WDAY WFAE
WIBC WEEL WFBR WGY WHO
WJAR WLIT WOC WOV WRC
WRVA WSAI WTAG WTAM WTC
WTMJ WVV

B—Phillips Lord, See Monday

ED-10:15 p.m., E-9:15, C-8:15, M-7:15
C—Fray and Braggiotti
CFBR CKOK KDYL KFH KFPY
KFRK KGB KLZ KMBC KOH KOL
KRLL KSCJ KTRH KVI WAAR
WABC WBCM WBRK WBT WCAH
WCAO WCAU WCCO WDAE WDBJ
WDBO WDOD WDRC WDSU WEAN

WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBW WJAS
WKBH WKJB WLWB WMAL
WNAX WNOX WOKO WORC WOV
WQAM WREC WFA WSPD WTOC
B—Song Fellows, Male Quartet
CKGW KDKA KOIL KTBS KWCR
WLWB 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 KPSD KFYR
KGLH KGIR KGO KGW KHQ KOA
KOMO KPRC KSD KSL KSTP
KTAR KTBS WAPI WBEN WCAE
WCSH WDAF WDAY WFAE WEBC
WEEL WENR WFAA WFBR WFLA
WGY WHO WIBA WIOD WIS
WJAR WJAX WJDX WKY WLIT
WMC WOC WOV WRC WRVA
WSAI WSB WSM WSMB WTAG
WTAM WTC WTMJ WVV WVNC

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 Sodero'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 a.m., E-11:00, C-10:00, M-9:00
C—Ozzie Nelson and Orchestra

CKOK KDYL KFAB KFH KFJF
KFPY KPRC KLRA KLZ KMBC
KMOX KOH KOL KSCJ KTRH
KTSB WABC WACO WBCM WBRK
WBT WCAH WCAU WDAE WDBJ
WDBO WDOD WDSU WEAN WFBM
WGL WGST WHAS WHEC WHP
WIBW WISN WKBW WLWB WMBD
WNAC WNAX WNOX WODX WOKO
WPG WQAM WREC WSPD WTAR
WTOC WVVVA

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—Whiteeman'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 KPSD KFYR KGA
KJR KOA KPO KTAR KTBS KWCR
WBAL WFLA WGAR WIBA WIOD
WJZ WKY WREN WSB WVNC

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
REX KPSD KGA KJR KOA KPO

KTBS WCAE WEAF WIBA WKY
WMC WRC WSM WTAM WVNC

ED-6:45 p.m., E-5:45, C-4:45, M-3:45
C—Ozzie Nelson and Orchestra
CFBR CKOK KDYL KFAB KFBK
KFH KFJF KFPY KFRK KGB KHJ
KLRA KLZ KMBC KOH KOL KSCJ
KTRH KTSB KVI KVOR WABC
WACO WBCM WBCM WBG WBRK
WBT WCAH WCAO WCCO WDAE
WDBJ WDBO WDOD WDRC WDSU
WEAN WFAN WFBL WFLA WGST
WHAS WHEC WHP WIBW WIP
WISN WJAS WKBH WKBW WLWB
WNAC WNAX WNOX WORC WQAM
WQAM WREC WFA WSPD WTAQ
WTAR WTOC WVVVA

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

CFBR CKOK KFBK KFH KFPY
KFRK KGB KHJ KLZ KMBC KMOX
KOH KOL KSCJ KTRH KTSB KVI
KVOR WABC WACO WBCM WBCM
WBIG WBRK WBT WCAO WCAU
WCCO WDAE WDBJ WDBO WDOD
WDSU WEAN WGR WGST WHAS
WHIC WHP WIBW WISN WJAS
WKBH WNAC WNAX WNOX WOKO
WORC WQAM WQAM WREC WFA
WSPD WTAQ WTAR WTOC WVVVA

R—Frankie Masters and Orchestra
KOIL KWCR WBAL WKY WIOD
WJZ

ED-7:30 p.m., E-6:30, C-5:30, M-4:30
V—Keenan and Phillips

CFBR CKOK KFAB KFBK KFH
KFJF KFPY KFRK KGB KHJ KLZ
KMBC KOH KRLL KSCJ KTRH
KTSB KVI KVOR WABC WACO
WBCM WBCM WDAE WBRK WBT
WCAO WCAU WDAE WDBJ WDBO
WDOD WDSU WEAN WFBL WFEA
WGL WGR WGST WHAS WHP
WIBW WISN WJAS WMAL WNAC
WNAX WNOX WOKO WORC WQAM
WREC WFA WSPD WTAQ WTAR
WTOC WVVVA

B—Cuckoo Program, Ray Knight

CRGW KEX KGA KJR KOA KTBS
KWCR WBAL WFLA WGAR WHAM
WIBA WJDX WJR WJZ WREN
WRVA WSB WSM WVNC

ED-7:45 p.m., E-6:45, C-5:45, M-4:45
C—Do Re Mi, Female Trio

CFBR KFAB KFBK KFPY KFRK
KGB KHJ KLZ KMBC KOH KOL
KRLL KSCJ KTRH KVI KVOR
WABC WACO WBCM WBCM WBG
WBRK WBT WCAH WCAO WCAU
WCCO WDAE WDBJ WDBO WDOD
WDSU WEAN WFBL WFBM WFEA
WGR WGST WHAS WHEC WHP
WIBW WISN WJAS WNAC WNAX
WNOX WOKO WORC WQAM WQAM
WREC WFA WSPD WTAQ WTAR
WTOC WVVVA

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 WCSI WDAF WFAE WEEL
WFEI WGY WHO WIOD WIS
WJAR WKY WMAQ WOC WOV
WRC WSAI WTAG WTAM WVV
WVNC

B—The Play's the Thing

Saturday—Continued

KDKA KOIL KWCR WCKY WGAR
WHAM WJR WJZ WLS WREN

ED-8:15 p.m., E-7:10, C-6:15, M-5:15
C—Vaughn DeLeath

CFRB CKOK KDYL KFAB KFBK
KFH KFJF KPFP KFRG KGB KHJ
KLZ KMBC KOH KOL KSCJ KTRH
KVI KVOR WABC WACO WBCM
WBIG WBRC WCAO WCAU WCCO
WDBJ WDBO WDOO WDSU WEAN
WFBL WFEA WGL WGST WHP
WJAS WKBH WMAL WNAC WNAX
WNOX WOKO WORC WOWO WQAM
WSFA WSPD WTAQ WTAR WTOC
WWVA

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 KFRG KGB KHJ KLRA
KLZ KMBC KMOX KOH KOL
KRLD KSCJ KTRH KVI KVOR
WABC WACO WBCM WBIG WBRC
WBT WCAH WCAO WCAU WCCO
WDAE WDBJ WDBO WDOO WDSU
WEAN WFBL WFBM WFEA WGL
WGR WGST WHAS WHEC WHK
WHP WISN WJAS WKBH WLWB
WMAL WNAC WNAX WNOX WOKO
WORC WPG WQAM WREC WSFA
WTAQ WTAR WTOC WWVA

R—K-7, Drama

KFI KFJR KGO KGW KOA KOMO
KSD KSL KSTP KTBS KVOO KYW
WBEN WCAE WCSH WDAF WDAY
WEAF WEBC WEEL WFBP WFI
WFLA WGY WHO WIBA WIOD
WJAR WJAX WKY WOC WOW
WRC WSAI WSM WTAG WTAM
WJJ WWNC

B—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 KFRG KGB KHJ KLRA
KLZ KMBC KOH KOL KSCJ KTRH
KVI KVOR WABC WACO WBCM
WBIG WBRC WBT WCAH WCAO
WCAU WCCO WDAE WDBJ WDBO
WDOO WDSL WEAN WFBL WFBM
WFEA WGL WGST WHAS WHEC
WHK WHP WIBW WISN WJAS
WKBH WKBW WLWB WMAL
WNAC WNAX WNOX WOKO WORC
WPG WQAM WREC WTAQ WTAR
WTOC WWVA

R—National Light Opera

CFRC CKGW WBEN WCAE WCSH
WDAF WEAF WEEL WFBP WFI
WFLA WGY WHO WIOD WJAR
WKY WMAQ WMC WOC WRC
WSAI WSB WSM WTAG WTAM
WJJ WWNC

B—Gus Van, Pickens Sisters

KDKA KOIL KPRC KWCR KWK
WAPI WBAL WBAF WBZ WBZA
WGAR WHAM WJDX WJR WJZ
WLS WMC WREN WSB WSM WJWB

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 KFRG KGB KHJ KLRA
KLZ KMBC KMOX KOH KOL
KSCJ KTRH KVI KVOR WABC
WBCM WBIG WBRC WBT WCAH
WCAO WCAU WCCO WDAE WDBJ
WDBO WDOO WDSU WEAN WFBL
WFBM WFEA WGL WGST WHEC

WHK WHP WIBW WISN WJAS
WKBW WLWB WMAL WNAC WNAX
WNOX WOKO WORC WPG WQAM
WREC WSFA WSPD WTAQ WTAR
WTOC WWVA

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
KFRG KGB KHJ KLRA KLZ KMBC
KMOX KOH KOL KSCJ KTRH
KTSa KVI KVOR WAAB WABC
WBBM WBCM WBIG WBRC WBT
WCAO WCCO WDAE WDBJ WDBO
WDOO WDSU WEAN WFBM WFEA
WGST WHAS WHEC WHP WIBW
WJAS WKBH WKBW WLWB WMAL
WNAX WNOX WOKO WORC WOWO
WPG WQAM WREC WSFA 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 WJZ WREN

ED-11:00 p.m., E-10:00, C-9:00, M-8:00
R—Ralph Kirby, Dream Singer

CFRC CKGW WCAE WEAF WFBP
WFI WFLA WGY WIOD WIS WRC
WTAG WTAM WJZ WWNC

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 KFRG KGB KHJ
KLRA KLZ KMBC KMOX KOH
KRLD KSCJ KTRH KTSa KVI
KVOR WAAB WABC WBCM WBT
WCAO WCCO WDAE WDBJ WDBO
WDOO WDRG WDSU WEAN WFAN
WFBM WGL WGST WHAS WHEC
WHP WIBW WIP WISN WKBW
WLWB WMAL WMBD WNAX
WNOX WODX WOKO WORC WQAM
WREC WSPD WTAG WTAR WWVA

R—Paul Whiteman and Orchestra

KSD WCAE WCKY WEAF WEEL
WFI WGY WJAR WMAQ WRC
WTAM WJJ

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

CKOK KDYL KFAB KFBK KFJF
KPFP KFRG KGB KHJ KLRA KLZ
KMBC KMOX KOH KOL KRLD
KSCJ KTRH KTSa KVI KVOR
WABC WBCM WBRC WBT WCAH
WCAO WCAU WCCO WDAE WDBJ
WDBO WDOO WDSU WEAN WFBL
WFBM WGL WGST WHAS WHEC
WHK WHP WIBW WISN WKBW
WLWB WMAL WMBD WNAC WNAX
WNOX WODX WOKO WQAM WREC
WSPD WTAG WTAR WWVA

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

SUNDAY

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

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

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

ED-12:00 n., E-11:00, C-10:00, M-9:00
C—Voice of St. Louis

CFRB KDYL KFAB KFBK KFJF
KFRG KLRA KMBC KMOX KOL
KSCJ KTRH KVOR WAAB WABC
WDBO WCAH WCCO WDAE WDBJ
WDBO WDOO WDRG WDSU WFBM
WFEA WGR WGST WHAS WHP
WIBW WJAS WKBH WKBN WMAL
WMBD WNAX WNOX WODX
WOKO WORC WOWO WPG WQAM
WREC WTAG WTAR WTOC WWVA

ED-12:30 p.m., E-11:30, C-10:30, M-9:30
C—Reis and Dunn

CFRB KDYL KFAB KFBK KFJF
KFRG KHJ KLRA KMBC KMOX
KOL KRLD KSCJ KTRH KVOR
WAAB WABC WBBM WBRC WCAH
WCAU WCCO WDAE WDBJ WDBO
WDOO WDSU WFBM WFEA WGR
WGST WHAS WHP WIBW WJAS
WKBH WKBN WMAL WMBD
WNOX WNOX WODX WOKO WORC
WPG WQAM WREC WSFA WTAG
WTAR WWVA

R—Silver Flute

WBEN WCKY WDAF WEAF WFI
WGY WHO WJAR WOC WRC WTAG
WTAM

B—Summer Idylls, Catharine Field

KEX 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 KFRG KHJ KLRA KMBC
KOL KRLD KSCJ KTRH KVOR
WAAB WABC WBBM WBCM WBRC
WCAH WCAU WCCO WDAE WDBJ
WDBO WDOO WDSU WFBM WGR
WGST WHAS WHEC WIBW WISN
WJAS WKBH WKBN WLWB WMAL
WMBD WODX WOKO WORC WOWO
WPG WQAM WREC WSFA WTAG
WTAR WWVA

ED-1:00 p.m., E-12:00, C-11:00, M-10:00
R—Garcia's Marimba Band

KEX KFJR KGA KJR KOA KPO
KSL KTRH KTBS WBEN WCAE
WCKY WDAF WDAY WEAF WFI
WFLA WGY WHO WIOD WJAR
WMAQ WOC WTAM WJJ WWNC

ED-1:15 p.m., E-12:15, C-11:15, M-10:15
C—Four Cluhmen

CFRB CKOK KDYL KFAB KFBK
KFJF KFRG KHJ KOL KSCJ KVOR
WAAB WABC WBBM WBCM WBT
WCAO WCAU WCCO WDAE WDBJ
WDBO WDOO WDRG WDSU WFBM
WGR WGST WHAS WHEC WHK
WHP WIBW WISN WJAS WKBH
WKBN WLWB WMAL WMBD
WODX WOKO WOWO WPG WQAM
WREC WSPD WTAG WTAR WWVA

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 KTHS WBEN
WCAE WDAF WDAY WEAF WEEL
WFAA WFBP WFI WFLA WGY
WJAR WLIT WMAQ WTAG WJAZ
WRC WSAI WSM WSMB WTAG WTAM
WJJ WWNC

B—Clyde Doerr's Saxophone Octet
KDKA KFI KFSD KGO KHQ KOA

Sunday—Continued

KOMO KWCR WBAL WDAY WGAR WHAM WJZ WLW

ED-2:30 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 WBRW WBT WCAH WCAO WCCO WDAE WDBJ WDBO WDOO WDRS WDSU WEAN WFBL WFBM WFEA WGR WGST WHAS WHEC WHK WHP WIBW WISN WJAS WKBH WKBN WLWB WMAL WNAC WNOX WODX WOKO WORC WQAM WSPA WTAQ WTR WTCO WWVA

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 WBRW WBT WCAH WCAO WCCO WDAE WDBJ WDBO WDOO WDRS WDSU WEAN WFBL WFEA WGL WGR WGST WHAS WHEC WHK WHP WIBW WISN WJAS WKBH WLWB WMAL WNAC WNOX WODX WOKO WORC WQAM WSPA WTAQ WTR WTCO WWVA

R—Moonshine and Honeysuckle KSD WCAE WCKY WCSH WDAF WEAF WEEL WFBR WGY WHO WJAR WLIT WMAQ WOC WOV WRC WTAG WTAM WWJ

B—Yeast Foamers KDRA KF KFSO KFJR KGHL KGO KGW KHQ KOIL KOMO KSTP KTAR KTHS KVOO KWCR KWK KYW WAPI WBAL WBZ WBZA WDAY WEBC WFAA WFLA WGAR WHAM WIBA WIOD WIS WJAX WJDX WJR WJZ WLW WPTF WREN WRVA WSB WSM WSWB WTMJ WWNC

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 WBRW WBT WCAH WCAO WCAU WCCO WDAE WDBJ WDBO WDOO 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 WRC WTAQ WTR WTCO WWVA

R—Gus Arnheim and Orchestra KFI KFJR KGO KGW KHQ KOA KOMO KPRC KSD KSL KSTP KTBS KTHS KVOO KYW WBN WCAE WCSH WDAF WDAY WEAF WEBC WEEL WFAA WFBR WGY WHO WIBA WJAR WKY WLIT WQAI WOC WOV WRC WSAI WTAG WTAM WTMJ WWJ

B—Picadilly Circus KDKA KOIL KWCR KWK WBAL WCKY WFLA WGAR WIOD WJDX WJR WJZ WREN WSM WWNC

ED-3:30 p.m., E-2:30, C-1:30, M-12:30 R—National Sunday Forum

KFYR KFBI KGIR KGO KGW KHQ KOA KPRC KSL KSTP KTAR KTHS KVOO KYW WBN WCAE WCSH WDAF WEAF WEBC WEEL WFAA WFBR WFLA WGY WIBA WIOD WIS WJAR WJAX WJDX WKY WQAI WOV WPTF WRC

WRVA WSAI WSB WSM WSWB WTAG WTAM WWJ WWNC

B—48th Highlanders Military Band CKGW KDKA KOIL KWCR WBAL WJZ WLW 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 WBRW WBT WCAH WCAO WCAU WCCO WDAE WDBJ WDBO WDOO WDRS WDSU WEAN WFBL WFBM WFEA WGR WGST WHAS WHEC WHK WHP WIBW WISN WJAS WKBH WKBN WMAL WMBD WNAC WNOX WODX WOKO WORC WQAM WRC WSPA WSPD WTAQ WTR WTCO WWVA

R—Idolent Program KHI KFSO KFJR KGHL KGIR KGO KGW KHQ KOA KOMO KPRC KSD KSL KSTP KTAR KTHS KTHS KVOO KYW WAPI WBN WCAE WCSH WDAF WDAY WEAF WEBC WEEL WFAA WFBR WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WMC WQAI WOC WOV WPTF WRC WRVA WSAI WSB WSM WSWB WTAG WTAM WTMJ WWJ WWNC

B—Temple of Song KDKA KOIL KWCR WBAL WBZ WBZA 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 KFSO KFJR KGHL KGIR KGO KGW KHQ KOIL KOMO KPRC KSL KSTP KTAR KTHS KTHS KVOO KWCR KWK WAPI WBAL WBZ WBZA WCKY WDAY WEBC WENR WFAA WFLA WGAR WIBA WIOD WIS WJDX WJR WJZ WKY WMC WQAI WPTF WREN WRVA WSB WSM WSWB WTMJ WWNC

ED-4:45 p.m., E-3:45, C-2:45, M-1:45 R—Pastels, String Quartet

CKGW KSD WBN WCAE WCSH WDAF WEAF WEEL WENR WFBR WFI WGY WHO WJAR WOC WOV WRC WSAI WTAG WTAG

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 WBRW WBT WCAH WCAO WCAU WCCO WDAE WDBJ WDBO WDOO WDRS WDSU WEAN WFBL WFBM WFEA WGR WGST WHAS WHEC WHK WHP WIBW WISN WJAS WKBH WKBN WLWB WMAL WNOX WODX WOKO WORC WQAM WRC WSPA WSPD WTAQ WTR WTCO WWVA

B—World of Religion KFSO KFJR KGHL KGIR KGO KGW KHQ KOA KOIL KPRC KTAR KTHS KTHS KVOO KWCR KWK KYW WAPI WBAL WBP WBY WBZA WCKY WDAY WEBC WFLA WGAR WHAM WIBA WIOD WIS WJAX WJDX WJZ WMC WQAI WPTF WREN WRVA WSB WSWB WWNC

ED-5:15 p.m., E-4:15, C-3:15, M-2:15 R—Kremlin Art Quintet

CKGW WCAE WCSH WEAF WEEL 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 WBRW WBT WCAO WCAU WCCO WDAE WDBJ WDBO WDOO WDRS WEAN WFBL WFBM WFEA WGR WGST WHAS WHEC WHP WIBW WISN WJAS WKBH WKBN WLWB WNAC WNOX WODX WOKO WORC WQAM WRC WSPA WSPD WTAQ WTR WTCO WWVA

R—Pop Concert, Walter Lohan

KFSO KGO KGW KHQ KOA KSTP KTAR KTHS WAPI WBN WCAE WCSH WDAF WEAF WEBC WEEL WENR WFBR WFI WFLA WGY WHO WIOD WJAR WKY WMC WOC WOV WRC WRVA WSAI WSB WSM WTAG WTAM WWJ WWNC

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 WBRW WBT WCAH WCAO WCAU WCCO WDAE WDBJ WDBO WDOO WDRS WENR WFBL WFBM WFEA WGR WGST WHAS WHEC WHK WHP WIBW WISN WJAS WKBH WKBN WLWB WNAC WNOX WODX WOKO WORC WQAM WRC WSPA WSPD WTAQ WTR WTCO WWVA

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 KMBC KOL KRLD KSCJ KVOR WABC WBCM WBIG WBRW WBT WCAH WCAO WCAU WCCO WDAE WDBJ WDOO WDRS WDSU WEAN WFBL WFBM WFEA WGL WGR WGST WHAS WHEC WHK WHP WIBW WJAS WKBH WKBN WLWB WMAL WNAC WNOX WODX WOKO WORC WQAM WRC WSPA WSPD WTAQ WTR WTCO WWVA

R—Catholic Hour

KEX KFSO KFJR KGA KGHL KGIR KJR KOA KPO KPRC KSTP KVOO WAPI WBP WBN WCAE WCSH WDAF WEAF WEBC WEEL WENR WFBR WFLA WGY WHO WIBA WIOD WJAR WJAX WJDX WKY WLIT WMC WQAI WOC WOV WRC WRVA WSAI WSM WSWB WTAG WTAM WWJ WWNC

B—Paul Whiteman and Orchestra

KGW KOIL KWCR KWK WBAL WBZ WBZA WCKY WGR 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 WDR WBSM WCAO WDSU WFBM WGC WGBT WHK WJAS WKRC WMAL

R—Sweetheart Days KEX KFSO 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 KDYI KFAB KFBK KFH
KFJF KFRC KHJ KMBC KMOX
KOL KRLD KSCJ KTRH KVOR
WABC WBBM WBCM WBIG WBRC
WBT WCCO WDAE WDBJ WDBO
WDOD WDRC WDSU WEAN WFBL
WFBM WFEA WFLA WGL WGR
WGST WHAS WHFC WHP WIBW
WIP WISN WJAX WRBH WKRN
WLBW WMLA WNAE WNAW WNOX
WODX WOKO WRC WPG WQAM
WREC WSPA WSPD WTAQ WTAR
WTOC WVVVA

R—Donald Novis, Tenor

KFSD KFYR KGO KGW KHQ KOA
KSL KSTP KTAR KTBS KVOO
WBEN WCHS WDAF WFAE WFCB
WEEI WFBR WFLA WGY WHO
WIBA WIOD WJAR WJDX WJW
WLIT WMAQ WOC WOW WSAI
WSM WTAG WTAM WWJ WWNC

C—Pickens Sisters

BKGW KOIL WBAI WCKY WHAM
WJZ WMAQ WREN

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

CKOK KDYI KFAB KFH KFJF
KFRC KHJ KMBC KMOX KOL
KRLD KSCJ KTRH KVOR WABC
WBCM WBIG WBRC WBT WCAH
WCAU WCCO WDAE WDBJ WDBO
WDOD WDRC WDSU WEAN WFBL
WFBM WFEA WGL WGR WGST
WHAS WHFC WHP WIBW WISN
WJAS WKBH WKBN WLW WMLA
WNAE WNAW WNOX WODX WOKO
WORC WQAM WREC WSPA WSPD
WTAQ WTAR WTOC WVVVA

ED-7:30 p.m., E-6:30, C-5:30, M-4:30
R—Orchestral Gems

KSD WBEN WCAE WDAF WFAE
WFBR WGY WJAR WLS WOW
WSAI WTAG WTIC WWJ

B—Commodores, Male Quartet

CFPC KDKA KFI KFSD KFYR
KGO KHQ KOA KOIL KSL KSTP
KTAR KTBS KWCR KWK WAPI
WBAI 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 KDYI KFAB KFH KFJF
KFRC KHJ KMBC KMOX KOL
KRLD KSCJ KTRH KVOR WABC
WBCM WBIG WBRC WBT WCAH
WCAU WCCO WDAE WDBJ WDBO
WDOD WDRC WDSU WFBL WFBM
WFEA WGL WGR WGST WHAS
WHFC WHK WHP WIBW WISN
WJAS WKBH WLW WMLA WNAE
WNAW WNOX WODX WOKO WORC
WPG WQAM WREC WSPA WSPD
WTAQ WTAR WTOC WVVVA

ED-8:00 p.m., E-7:00, C-6:00, M-5:00
C—William Vincent Hall

CKOK KDYI KFAB KFH KFJF
KFRC KHJ KMBC KMOX KOL
KSCJ KTRH KVOR WABC WBCM
WBIG WBRC WBT WCAH WCAU
WCCO WDAE WDBJ WDBO WDOD
WDRC WDSU WEAN WFEA WGL
WGR WGST WHAS WHFC WHP
WIBW WISN WJAS WKBH

WKBW WLBW WMAI WNAE WNAW
WODX WOKO WORC WQAM WREC
WSPA WSPD WTAR WTOC WVVVA

R—Chase and Sanborn Hour

CFPC CKGW KFI KFSD KFYR
KGO KGW KHQ KOA KOMO KPRC
KSD KSL KSTP KTAR KTBS KVOO
WAPI WBEN WCAE WCKY WCHS
WDAF WDAY WFAE WFCB WFAA
WFBR WFLA WGY WHO WIOD
WIS WJAR WJAX WJDX WKY
WLIT WLS WMC WOAI WOC WPTP
WRC WRVA WSAI WSB WSM
WSMB WTAG WTAM WTIC WTMJ
WWJ WWNC

B—McCravy Brothers

KDKA KOIL KTBS KVOO KWCR
KWK WRAL 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 WBAI 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 WFAA WFBW WFI
WFLA WGY WHO WIOD WIS WJAR
WJDX WKY WMC WOC WOW
WPTP WRC WRVA WSAI WSB
WSM WSMB WTAG WWNC

B—Enna Jettick Melodies

CFPC CKGW KDKA KFI KFSD
KFYR KHGL KHQ KGO KGW KHQ
KOA KOIL KOMO KSTP KTAR
KWCR KWK WKY WBAI WBZ
WBAZ WKY WDAY WFCB 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 KFYR KGO KGW KHQ
KOA KOMO KPRC KSD KSL KSTP
KTAR KTBS WAPI WBEN WCAE
WCHS WDAY WFAE WFCB WENR
WFAA WFBW 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
KPSA WABC WADC WBBM WBT
WCAO WCAU WCOO WDRC WEAN
WFBL WGN WGR WGST WHFC
WHK WJAS WKRC WLAC WLBZ
WMLA WNAE WOKO WSPD

ED-9:45 p.m., E-8:45, C-7:45, M-6:45
R—Sheaffer Lifetime Review

CKGW KSD WBEN WCAE WCHS
WDAF WFAE WEEI WENR WFBR
WFI WGY WHO WJAR WOC WWR
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 KIZ KMBC KMOX KRLD
WAAB WABC WADC WBBM WBT
WCAO WCAU WCOO WDRC WDSU
WFBL WFBM WGST WHK WJAS
WKBW WKRC WMLA 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 WCHS WDAF WFAE WEEI
WFBR 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
KOIL KOMO KSL KWK WBAI WBZ
WBAZ 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

CFPC KECA KFSD KFYR KHGL
KHQ KGO KGW KHQ KOA KOMO
KPRC KND KSL KSTP KTAR KTBS
KYW WAPI WBEN WCAE WCHS
WDAF WDAY WFAE WFCB WEEI
WFAA WFBR WFI WFLA WGY
WHO WIBA WIOD WIS WJAR WJAX
WJDX WKY WMC WOAI WOC WOW
WPTP 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

CFBR CKOK KDYI KFAB KFBK
KFH KFJF KFRC KHJ KLRA KMBC
KMOX KOL KRLD KSCJ KTRH
KVOR WAAB WABC WBCM WBRC
WBT WCAH WCCO WDAE WDBJ
WDBO WDOD WDRC WDSU WEAN
WEAN WFBL WFBM WGL WGR
WHAS WHK WHP WIBW WIP WISN
WJAS WKBN WLW WMLA WMBD
WNOX WOKO WPG WQAM WREC
WSPA WSPD WTAR WTOC

B—Malik Mystery Drama

KOHL KWCR WBAI WCKY WHAM
WJZ WMAQ WREN

ED-11:15 p.m., E-10:15, C-9:15, M-8:15
R—Beau Ballader

KFI KHGL KGO KGW KHQ KSTP
KTBS WCAE WFAE WFBR 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

CFBR CKOK KLRA WABC WBCM
WBRC WBT WCAU WCOO WDAE
WDBJ WDBO WDOD WDRC WDSU
WEAN WFBL WGL WGR WIBC
WIP WISN WKBN WLW WMLA
WNAE WNOX WOKO WQAM WSPA
WSPD WTAR WTOC

C—Pennzoil Parade

KDYI KERN KFBK KFPY KFRC
KGB KHJ KLZ KMJ KOIN KOL
KVI KWG

R—Mood Oriental

KFI KFSD KFYR KHGL KGO KGW
KHQ KOA KOMO KSTP KTAR
KTBS WCAE WDAF WFAE WFCB
WFBR WFI WGY WIBA WJAR
WMAQ WJW WRC WSB WSM
WTAM WWJ

ED-12:00 p.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
WBRC WBT WCAH WCAU WCCO
WDAE WDBJ WDBO WDOD WDSU
WEAN WFBM WGL WGR WHAS
WHFC WHK WHP WIBW WISN
WKBN WLW WMLA WMBD
WNAE WNAW WNOX WOKO WQAM
WREC WSPA WSPD WTAR WTOC

B—Wm. Stoess and Orchestra

KHGL 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, 5:15 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.
Pastesi, String Quartet, 4:45 p.m., Sunday, R.
Cesare Soderò, 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, 8:00 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 Arnheim, 3:00 p.m., Sun., R.; 12 mid., Sun., C.
Ben Bernie, 9 p.m., Tuesday; 12:30 a.m., Wednesday, R.
Jack Benny, 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 Sanella, 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.
Funnybones, 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.
Tasteyast 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.
Malik 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.
Areher 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.
Cherquot 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 Romanay, 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 Lightin' 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 Elton 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 Carlile, 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 Kirby, 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 Prie, 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., Sunday, 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., Tuesday, 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 Remote 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

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

FOR KEY TO SYMBOLS SEE PAGE 45

540 kilocycles 555.6 meters

CKOK ac 5000 CG Windsor, Ont.

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Essex Broadcasters, Ltd.

550 kilocycles 545.1 meters

KFDY ac 500 (1)1 Brookings, S. D.
 KFUO ac 500 2(1) St. Louis, Mo.
 KFYY 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 ac 1000 C Buffalo, N. Y.
 WKRC ak 1000 C Cincinnati, Ohio

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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 ae 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.

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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 ----- Hollywood, Calif.
 KVI ae 500 C Tacoma, Wash.
 TGW z 50 ----- Guatemala
 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.

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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 2T Fresno, Calif.
 KSAC ak 500 2(1) Manhattan, Kans.
 WDBO ae 250 CU Orlando, Fla.
 WIBW ae 1000 C2 Topeka, Kans.
 WOBW ak 250 1(5) Charleston, W. Va.
 WSAZ ak 250 1(5) Huntington, W. Va.
 WTAG ae 250 R(.5) Worcester, Mass.

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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
 WOBW, Inc., Ruffner Hotel
 WSAZ, Inc.
 Worcester Telegram Pub. Co., Inc.

590 kilocycles 508.2 meters

CJGC ae 5000 595GZ London, Ont.
 KHQ ak 1000 N(2) Spokane, Wash.
 WCAJ ae 500 1 Lincoln, Neb.
 WEEI ak 1000 R Boston, Mass.
 WKZO ac 1000 D Kalamazoo, Mich.
 WOW aeh 1000 1R Omaha, Neb.

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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.

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	N	Portland, Ore.
KTAR	ae	500	NJ(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.

Oregonian Publishing Co.
KTAR Broadcasting Co.
Florida West Coast Bdct. 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.
CKOK	ae	1000	635aG	Hamilton, Ont.
CKTB	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

635

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.
WAJU	ae	500	1	Columbus, Ohio
WOI	ae	5000	D	Ames, Iowa

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.

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

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)

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 Gloucester, N. S.
 XET ck 500 Monterrey, Mexico
 VCX z 100 Halifax, N. S.

57
 Calgary Herald, Ltd.
 Rogers-Majestic Corp., Ltd.
 Albertan Publishing Co., Ltd.
 U. S. Navy
 Canadian Marconi Co.
 Cadena Radio Difusora Mexicana S. A.
 Sambre Lightship

700 kilocycles 428.3 meters

WLW ae 5000 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.
 Cerveceria 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.
 CKAC 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
 Spratt-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.
 WHEB 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

47
 Advertiser Publishing Co.
 Wesley United Church
 WJR, The Goodwill Station, Inc.
 Radio Difusora Nacional 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

INDEX BY FREQUENCIES AND DIAL NUMBERS

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.

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

800 kilocycles 374.8 meters

WBAP	ak	10000	1N	Fort Worth, Texas
WFAA	ak	50000	1N	Dallas, Texas

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Carter Publications, Inc.
Dallas News-Dallas Journal

KCYS.

880

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.
WPCB	ak	500	D	New York City
XFC	z	250	-----	Aguascalientes, Mex.

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

MTRS.

340.7

DIAL

820 kilocycles 365.6 meters

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

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

830 kilocycles 361.2 meters

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

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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

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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.

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Manuel Fernandez
Helo 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

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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

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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	Freston, 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

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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

INDEX BY FREQUENCIES AND DIAL NUMBERS

890 kilocycles 336.9 meters

<table border="0" style="width: 100%;"> <tr><td>CFBO</td><td>z</td><td>500</td><td>-----</td></tr> <tr><td>CKCO</td><td>z</td><td>100</td><td>3</td></tr> <tr><td>CKPR</td><td>ak</td><td>50</td><td>3G</td></tr> <tr><td>CMCF</td><td>ak</td><td>250</td><td>1</td></tr> <tr><td>CMX</td><td>ae</td><td>3000</td><td>1</td></tr> <tr><td>KARK</td><td>ak</td><td>250</td><td>-----</td></tr> <tr><td>KRFN</td><td>ak</td><td>500</td><td>2(1)</td></tr> <tr><td>KSEI</td><td>ae</td><td>250</td><td>(.5)</td></tr> <tr><td>KUSD</td><td>ae</td><td>500</td><td>2</td></tr> <tr><td>VOGT</td><td>z</td><td>100</td><td>-----</td></tr> <tr><td>VGST</td><td>ae</td><td>250</td><td>C(.5)</td></tr> <tr><td>WILL</td><td>ak</td><td>250</td><td>2(.5)</td></tr> <tr><td>WJAR</td><td>ae</td><td>250</td><td>(.5)R</td></tr> <tr><td>WMMN</td><td>ae</td><td>250</td><td>(.5)</td></tr> </table>	CFBO	z	500	-----	CKCO	z	100	3	CKPR	ak	50	3G	CMCF	ak	250	1	CMX	ae	3000	1	KARK	ak	250	-----	KRFN	ak	500	2(1)	KSEI	ae	250	(.5)	KUSD	ae	500	2	VOGT	z	100	-----	VGST	ae	250	C(.5)	WILL	ak	250	2(.5)	WJAR	ae	250	(.5)R	WMMN	ae	250	(.5)	<table border="0" style="width: 100%;"> <tr><td>St. John, N. B.</td></tr> <tr><td>Ottawa, Ont.</td></tr> <tr><td>Fort William, Ont.</td></tr> <tr><td>Havana, Cuba</td></tr> <tr><td>Havana, Cuba</td></tr> <tr><td>Little Rock, Ark.</td></tr> <tr><td>Shenandoah, Iowa</td></tr> <tr><td>Pocatello, Idaho</td></tr> <tr><td>Vermillion, S. Dak.</td></tr> <tr><td>Wabana, N. F.</td></tr> <tr><td>Atlanta, Ga.</td></tr> <tr><td>Urbana, Ill.</td></tr> <tr><td>Providence, R. I.</td></tr> <tr><td>Fairmont, W. Va.</td></tr> </table>	St. John, N. B.	Ottawa, Ont.	Fort William, Ont.	Havana, Cuba	Havana, Cuba	Little Rock, Ark.	Shenandoah, Iowa	Pocatello, Idaho	Vermillion, S. Dak.	Wabana, N. F.	Atlanta, Ga.	Urbana, Ill.	Providence, R. I.	Fairmont, W. Va.	<table border="0" style="width: 100%;"> <tr><td>C. A. Munro, Ltd.</td></tr> <tr><td>Dr. G. M. Geldert</td></tr> <tr><td>Dougall Motor Car Co., Ltd.</td></tr> <tr><td>Raoul Karman, Casa DelaPorte</td></tr> <tr><td>Casa "Lavin" Francisco A. Lavin, Adm.</td></tr> <tr><td>Arkansas Radio & Equipment Co.</td></tr> <tr><td>Henry Field Company</td></tr> <tr><td>Radio Service Corporation</td></tr> <tr><td>University of South Dakota</td></tr> <tr><td>The Gaiety Theatre</td></tr> <tr><td>Southern Broadcasting Co.</td></tr> <tr><td>University of Illinois</td></tr> <tr><td>The Outlet Co.</td></tr> <tr><td>Holt-Rowe Broadcasting Co.</td></tr> </table>	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.
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INDEX BY FREQUENCIES AND DIAL NUMBERS

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

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

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KWJJ Broadcast Co., Inc.
Consolidated Gas, Elec. L. & Pwr. Co.
Norfolk Daily News
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.
WCAZ	z	50	D	Carthage, Ill.
WDZ	ak	100	D	Tuscola, Ill.
WTAM	ak	50000	R	Cleveland, Ohio
XEG	z	250	-----	Mexico City, Mexico

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Francisco Garrigo
Metropolitan-Radio de Cuba
Julius Brunton & Sons Co.
Superior Bdctg. Service, Inc.
James L. Bush
National Broadcasting Co., Inc.
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.
Wilbur Glenn Voliva
Moody Bible Institute

1090 kilocycles 275.1 meters

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

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
Missionary Society of St. Paul
Municipality of Atlantic City

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.
Larus & Bros. Co., Inc.

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.
KFGS	ak	500	3	Los Angeles, Calif.
KRKC	ueh	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
The Kamloops Sentinel
R. T. Holman, Ltd.
Harold R. Carson
Spokane Broadcasting Corp.
Echo Park Evangelistic Assn.
Dalton's, Inc. (Arcade Bldg.)
Radio Sales Corp. (Wash. Ath. Club)
KTRH Broadcasting Co. (Rice Hotel)
WDEL, Inc.
Marquette University
Evening Wisconsin Co.
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
WJJD, Inc. (Palmer House)
International Broadcasting Corp.
Tarnava & Cia.

1140 kilocycles 263.0 meters

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

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Alvarez-Moris
Andres Martinez
Southwestern Sales Corp.
WAPI Broadcasting Corp.
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.

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.
-WWVA	ae	5000	1C	Wheeling, W. Va.

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	2	Albuquerque, N. M.
WDGY	ak	1000	Dn	Minneapolis, Minn.
WINS	ae	500	-----	New York City
WMAZ	ak	500	-----	Macon, Ga.

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.
KGEK	ak	100	9	Yuma, Colo.
KGFW	ak	100	9	Ft. Morgan, Colo.
KGFT	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.
WBBZ	ak	100	-----	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.
WFBE	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	ae	100	3	Lancaster, Pa.
WLAP	ck	100	(.25)	Louisville, Ky.
WNBO	ae	100	-----	Silverhaven, Pa.
WNBW	z	10	-----	Carbondale, Pa.
WORC	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.

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.
Liner's 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 (Bellin Bldg.)
WIBX, Inc.
Missouri Broadcasting Corp.
Kaskaskia Broadcasting Co.
Commodore Broadcasting, Inc.
C. C. Carlson
Lancaster Bdtg. 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 Bdtg. 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.

KCYS.
1200
MTRS.
249.9
DIAL

INDEX BY FREQUENCIES AND DIAL NUMBERS

1210 kilocycles 247.8 meters

CFCO	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.
KFJI	ak	100	-----	Klamath Falls, Ore.	KFJI 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	Springfield, Ill.	Grace Covenant Pres. Church.
WCBS	ak	100	2	Chicago, Ill.	Chas. H. Messter & Harold L. Dewing
WCRW	ae	100	4	Harrisburg, Ill.	Clinton R. White
WEBQ	ae	100	6	Chicago, 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
WSBC	z	100	4	Chicago, Ill.	World Battery Co., Inc.
WSEN	ak	100	-----	Columbus, Ohio	Columbus Bdctg. 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(D)	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)
WREN	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.
WPCB	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

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KTAT	z	ak	1000	1	Fort Worth, Texas	Texas Air Transport
KTFI	z	ak	500	-----	Twin Falls, Idaho	Radio Broadcasting Corp. of Idaho
WACO	ak	ak	1000	1C	Waco, Texas	Southwest Broadcasting Co.
WKAQ	z	ak	1000	-----	San Juan, P. R.	Radio Corp. of Porto Rico
WXYZ	z	ak	1000	-----	Detroit, Mich.	Kunsky-Trendle Broadcasting Corp.

1250 kilocycles 239.9 meters

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KFMX	aj	ak	1000	2	Northfield, Minn.	Carleton College
KFOX	ae	ak	1000	CT	Long Beach, Calif.	Nichols & Warinner, Inc.
WAAM	ae	ak	1000	1(2.5)	Newark, N. J.	WAAM, Inc.
WCAL	ae	ak	1000	2	Northfield, Minn.	St. Olaf College
WDSU	ak	ak	1000	C	New Orleans, La.	Jos. H. Uhalt
WGCP	ak	ak	250	1	Newark, N. J.	May Radio Broadcasting Co.
WLB	ak	ak	1000	2	Minneapolis, Minn.	University of Minnesota
WODA	z	ak	1000	1	Paterson, N. J.	Richard E. O'Dea
WRHM	ae	ak	1000	2	Minneapolis, Minn.	Minnesota Broadcasting Corp.
XEFA	z	ak	250	-----	Mexico City, Mexico	Manuel F. Murguia

1260 kilocycles 238.0 meters

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KOIL	ak	ak	1000	B	Council Bluffs, Iowa	Mona Motor Oil Co.
KRGV	ae	ak	500	1	Harlingen, Texas	KRGV, Inc. (Rio Grande Na. Life Bldg.)
KVOA	z	ak	500	D	Tucson, Arizona	Robert M. Riculfi
KWWG	z	ak	500	1	Brownsville, Texas	Frank P. Jackson
WHBC	ak	ak	10	-----	Canton, Ohio	Edward P. Graham
WLBW	ae	ak	500	C(1)Y	Oil City, Pa.	Radio-Wire Program Corp. of Amer.
WTOC	ae	ak	500	CU	Savannah, Ga.	Savannah Broadcasting Co., Inc.

1270 kilocycles 236.1 meters

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CMCU	z	ak	150	-----	Havana, Cuba	Jorge Garcia Serra
CMCW	z	ak	150	-----	Havana, Cuba	Jose Lorenzo
KGCA	ak	ak	100	D2	Decorah, Iowa	Chas. W. Greenley
KOL	ae	ak	1000	CT	Seattle, Wash.	Seattle Broadcasting Co.
KVOR	ak	ak	1000	C	Colorado Springs, Col.	Reynolds Radio Co., Inc.
KWLC	ak	ak	500	D2	Decorah, Iowa	Luther College
WASH	ak	ak	500	a	Grand Rapids, Mich.	Kunsky-Trendle Broadcasting Corp.
WEAI	ak	ak	1000	D	Ithaca, N. Y.	Cornell University
WFBR	ae	ak	500	R	Baltimore, Md.	Baltimore Radio Show, Inc.
WJDX	ak	ak	1000	N	Jackson, Miss.	Lamar Life Insurance Co.
WOOD	ak	ak	500	a	Grand Rapids, Mich.	Kunsky-Trendle Broadcasting Corp.

1280 kilocycles 234.2 meters

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KFBB	ae	ak	1000	(2.5)	Great Falls, Mont.	Buttrely Broadcast, Inc.
WCAM	ae	ak	500	1	Camden, N. J.	City of Camden (City Hall Tower)
WCAP	ae	ak	500	1C	Asbury Park, N. J.	Radio Industries Broadcast Co.
WDOD	ae	ak	1000	C(2.5)	Chattanooga, Tenn.	WDOD Bdctg. Corp. (Hotel Patten)
WIBA	ae	ak	500	N(1)	Madison, Wis.	Badger Broadcasting Co., Inc.
WOAX	ae	ak	500	1	Trenton, N. J.	Trenton Broadcasting Co.
WRR	ae	ak	500	C	Dallas, Texas	City of Dallas (Hilton Hotel)

KCY.S.

1300

MTRS.

230.6

1290 kilocycles 232.4 meters

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KDYL	ak	ak	1000	C	Salt Lake City, Utah	Intermountain Broadcasting Corp.
KFUL	ak	ak	500	1	Galveston, Texas	News Publishing Co. (Buccaneer Hotel)
KLCN	z	ak	50	D	Blytheville, Ark.	C. L. Lintzenich
KTSA	ae	ak	1000	1C(2.5)	San Antonio, Texas	Lone Star Broadcast Co. (Plaza Hotel)
WEBC	ae	ak	1000	N(2.5)	Superior, Wis.	Head of the Lakes Broadcasting Co.
WJAS	ak	ak	1000	C(2.5)	Pittsburgh, Pa.	Pittsburgh Radio Supply House
WNBZ	z	ak	50	D	Saranac Lake, N. Y.	Smith & Mace

DIAL

1300 kilocycles 230.6 meters

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CMKJ	z	ak	20	-----	Guantanamo, Cuba	Luis Morlote
KFAC	z	ak	1000	-----	Los Angeles, Calif.	Los Angeles Broadcasting Co.
KFH	ae	ak	1000	C	Wichita, Kans.	Wichita Eagle—Hotel Lassen
KFJR	ag	ak	500	3	Portland, Ore.	Ashley C. Dixon—KFJR, Inc.
KTBR	z	ak	500	3	Portland, Ore.	M. E. Brown
WBRR	aej	ak	1000	1	Brooklyn, N. Y.	Peoples Pulpit Assn.
WEVD	ae	ak	500	1	New York City	Debs Memorial Radio Fund, Inc.
WFAB	z	ak	1000	1	New York City	Defenders of Truth Society, Inc.
WHAZ	ae	ak	500	1	Troy, N. Y.	Rensselaer Polytechnic Institute
WIOD	z	ak	1000	N	Miami, Fla.	Isle of Dreams Broadcasting Corp.
WOQ	ae	ak	1000	-----	Kansas City, Mo.	Unity School of Christianity
XEM	z	ak	250	-----	Tampico, Tams, Mex.	Maria T. de Gutierrez

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1310 kilocycles 228.9 meters

KCRJ	ak	100	D	Jerome, Arizona	Chas. C. Robinson
KFBK	z	100	C	Sacramento, Calif.	Jas. McClatchy Co.
KFGQ	z	100	7	Boone, Iowa	Boone Biblical College
KFPL	ck	100	-----	Dublin, Texas	C. C. Baxter
KFPM	ae	15	-----	Greenville, Texas	New Furniture Co.
KFNJ	ak	100	-----	Grand Junction, Colo.	Western Slope Broadcasting Co.
KFXR	z	100	(.25)	Oklahoma City, Okla.	Exchange Ave. Baptist Church
KFYO	z	100	(.25)Z	Lubbock, Texas	T. E. Kirksey
KGBX	ue	100	Y	St. Joseph, Mo.	KGBX, Inc. (To Springfield, Mo.)
KGCX	ak	100	(.25)	Wolf Point, Mont.	First State Bank of Vida
KGEZ	aj	100	-----	Kalispell, Mont.	Donald C. Treloar
KGFW	ah	100	-----	Kearney, Neb.	Central Nebraska Bdctg. Corp.
KIT	ak	100	-----	Yakima, Wash.	Valley Broadcasters, Inc.
KMED	ak	100	-----	Medford, Ore.	Mrs. W. J. Virgin
KRMD	ak	100	-----	Shreveport, La.	KRMD, Inc. (Jefferson Hotel)
KTLC	ae	100	-----	Houston, Texas	Houston Broadcasting Co.
KTSM	z	100	a	El Paso, Texas	W. S. Beldsoe & W. T. Blackwell
KXRO	ak	100	-----	Aberdeen, Wash.	KXRO, Inc. (Hotel Morck)
WBEO	z	100	-----	Marquette, Mich.	Lake Superior Broadcasting Co.
WBOW	ak	100	-----	Terre Haute, Ind.	Banks of Wabash, Inc.
WBRE	z	100	-----	Wilkes-Barre, Pa.	Louis G. Baltimore
WCLS	ae	100	b	Joliet, Ill.	WCLS, Inc.
WDAH	z	100	a	El Paso, Texas	Beldsoe & Blackwell
WEBR	ae	100	Q(.25)	Buffalo, N. Y.	Howell Broadcasting Station
WENL	ak	50	-----	Royal Oak, Mich.	Royal Oak Broadcasting Co.
WFBG	ae	100	3	Altoona, Pa.	The William F. Gable Co.
WFDF	ae	100	-----	Flint, Mich.	Frank D. Fallain (Union Ind. Bldg.)
WGAL	ae	100	5	Lancaster, Pa.	WGAL, Inc. (Lancaster Newsp. Bldg.)
WGH	ac	100	-----	Newport News, Va.	Hampton Roads Broadcasting Corp.
WHAT	z	100	4	Philadelphia, Pa.	Independence Broadcasting Co.
WIAS	ak	100	7	Ottumwa, Iowa	Iowa Bdctg. Co. (Hotel Ottumwa)
WJAC	ae	100	3	Johnstown, Pa.	WJAC, Inc.
WJAK	ak	50	6	Elkhart, Ind.	Elkhart Daily Truth
WKAV	ae	100	-----	Laconia, N. H.	Laconia Radio Club
WKBB	ae	100	b	Joliet, Ill.	Richard W. Hoffman
WKBC	z	100	-----	Birmingham, Ala.	R. B. Broyles Furniture Co.
WKBS	z	100	-----	Galesburg, Ill.	Permil N. Nelson
WLBC	ak	50	6	Muncie, Ind.	D. A. Burton—A. J. Marriott
WMBO	ak	100	-----	Auburn, N. Y.	WMBO, Inc. (Masonic Temple)
WNBH	ae	100	H(.25)	New Bedford, Mass.	New Bedford Bdctg. Co. (N. B. Hotel)
WOL	ae	100	-----	Washington, D. C.	American Broadcasting Co.
WRAW	z	100	5X	Reading, Pa.	Reading Broadcasting Co.
WROL	ak	100	-----	Knoxville, Tenn.	Stuart Bdctg. Co. (Farragut Hotel)
WSAJ	ae	100	-----	Grove City, Pa.	Grove City College
WSJS	ae	100	C	Winston-Salem, N. C.	Winston-Salem Journal Co.
WTEL	ae	100	4	Philadelphia, Pa.	Foulkrod Radio Eng. Co., Inc.
WTJS	ak	100	(.25)	Jackson, Tenn.	Sun Publishing Co. (Sun Bldg.)
WTSL	z	100	-----	Laurel, Miss.	G. A. Houseman
XEFB	ak	100	1315	Monterrey, N. L., Mex.	Quintanilla y Stevenson
XEI	ak	150	-----	Morelia, Mexico	Carlos Gutierrez M.

1320 kilocycles 227.1 meters

KGHF	ak	250	(.5)	Pueblo, Colo.	C. P. Ritchie & J. E. Finch
KGMB	ak	250	C	Honolulu, Hawaii	Honolulu Broadcasting Co.
KID	ae	250	(.5)	Idaho Falls, Idaho	KID Broadcasting Co., Inc.
WADC	ae	1000	C	Akron, Ohio	Allan T. Simmons
WSMB	ae	500	N	New Orleans, La.	WSMB, Inc.

1330 kilocycles 225.4 meters

CMJI	ak	112	1335	Ciego de Avila, Cuba	Gilberto Gessa Lopez
KGB	ae	500	CT	San Diego, Calif.	Don Lee, Inc. (Pickwick Hotel)
KMO	ak	250	-----	Tacoma, Wash.	KMO, Inc. (Hotel Winthrop)
KSCJ	ah	1000	1C(2.5)	Sioux City, Iowa	Perkins Bros. Co.
WDRC	ae	500	CH	Hartford, Conn.	WDRC, Inc.
WSAI	ae	500	R(1)	Cincinnati, Ohio	The Crosley Radio Corp.
WTAQ	ae	1000	1C	Eau Claire, Wis.	The Gillette Rubber Co.

1340 kilocycles 223.7 meters

CMCR	z	150	1345	Havana, Cuba	Aurelio Hernandez
KFPY	ae	1000	CT	Spokane, Wash.	Symons Bdctg. Co. (Symons Bldg.)
WCOA	agj	500	-----	Pensacola, Fla.	Pensacola Bdctg. Co. (San Carlos Hot.)
WSPD	ae	1000	C	Toledo, Ohio	Toledo Bdctg. Co. (Com. Perry Hotel)

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1350 kilocycles 222.1 meters

CMCY ak 500 KIDO ak 1000 KWK ae 1000 WAWZ ae 250 WBNX ae 250 WCDA z 250 WEHC ae 500 WMSG ae 250	1355 ----- B 1 1a 1 D 1a	Havana, Cuba Boise, Idaho St. Louis, Mo. Zarephath, N. J. New York City New York City Emory, Va. New York City	M. D. Autran C. G. Phillips & Frank Hill Thomas Patrick, Inc. (Hotel Chase) Pillar of Faith New York Met. Broadcasting Corp. Italian Educ. Bdrg. Co., Inc. Emory & Henry College New York Met. Broadcasting Corp.
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1360 kilocycles 220.4 meters

KGBR ah 1000 KGIR ak 500 WCSG z 500 WFBL ak 1000 WGES ae 500 WJKS agj 1000 WQBC ak 500	----- NJ ----- C(2.2) 1(1) 1Z -----	Long Beach, Calif. Butte, Mont. Charleston, S. C. Syracuse, N. Y. Chicago, Ill. Gary, Ind. Vicksburg, Miss.	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)
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1370 kilocycles 218.7 meters

CMGE z 30 KCRC ak 100 KFBL aj 50 KFJM z 100 KFJZ ae 100 KFJX z 100 KGAR ak 100 KGDA ae 100 KGGF z 100 KGFL zk 100 KFKL ak 100 KICA z 100 KMAC ak 100 KONO ak 100 KOOS ae 100 KRE ak 100 KUJ ak 100 KVL z 100 KWKC z 100 WBTM z 100 WCBM ae 100 WDAS aeh 100 WESG z 50 WGL aeh 100 WHBD bk 100 WHBQ ak 100 WHDF ak 100 WIBM aeh 100 WJBK ae 50 WJTL z 100 WLEY aeh 100 WLVA ck 100 WMBR ak 100 WPFB z 100 WQDM z 100 WRAK ak 100 WRAM ae 100 WRDO ae 100 WRJN ae 100 WWSV z 50 XEFZ ae 100 ----- z 100	1375 2(.25) 3 ----- ----- ----- (25) 2 4 ----- 4CP 5 5 ----- D 3 7 ----- Z(.25) (.25) ----- C ----- ----- (25) 7 ----- ----- 6 ----- ----- ----- ----- ----- ----- 6	Cardenas, Cuba Enid, Okla. Everett, Wash. Grand Forks, N. Dak. Fort Worth, Texas Galveston, Texas Tucson, Arizona Mitchell, S. Dak. Oklahoma City Santa Fe, N. Mex. San Angelo, Texas Clovis, New Mexico San Antonio, Texas San Antonio, Texas Marshfield, Ore. Berkeley, Calif. Walla Walla, Wash. Seattle, Wash. Kansas City, Mo. Danville, Va. Baltimore, Md. Philadelphia, Pa. Glens Falls, N. Y. Fort Wayne, Ind. Mount Orab, Ohio Memphis, Tenn. Calumet, Mich. Jackson, Mich. Detroit, Mich. Atlanta, Ga. Lexington, Mass. Lynchburg, Va. Tampa, Fla. Hattiesburg, Miss. St. Albans, Vt. Williamsport, Pa. Wilmington, N. C. Augusta, Maine Racine, Wis. Buffalo, N. Y. Coyoacan, Mexico Williamsport, Pa.	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. (Otsega 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.
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KCYS.
1380
 MTRS.
217.3
 DIAL

1380 kilocycles 217.3 meters

CMJC z 75 KOH ak 500 KOV ak 500 KSO z 500 WKBH aj 1000 WSNK ak 200 XETB z 125	1382 C 2 ----- 1C 2 -----	Camaguey, Cuba Reno, Nevada Pittsburgh, Pa. Clarinda, Iowa LaCrosse, Wis. Dayton, Ohio Torreon, Coah., Mex.	Feliciano Isaac McClatchy Newspapers KOV Bdctg. Co. (Investment Bldg.) Iowa Broadcasting Co. WKBH, Inc. (Radio Bldg.) Stanley M. Krohn, Jr. Jose A. Berumen
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INDEX BY FREQUENCIES AND DIAL NUMBERS

1390 kilocycles 215.7 meters

CMCG	z	30	1395
CMCH	ak	100	1395
CMCM	z	15	1395
CMDB	z	40	1395
KLRA	ae	1000	1C
KOY	ae	500	C
KUOA	ak	1000	1
WHK	ae	1000	C

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

75		
Jose Justo Moran		
Wifredo & Hum. Fontanals Sanchez		
Martinez-Madacu		
Julio Powers		
Arkansas Broadcasting Co.		
Nielson Radio & Sporting Goods Co.		
Southwestern Hotel Co. (Ft. Smith)		
Radio Air Service Corp. (Higbee Store)		

1400 kilocycles 214.2 meters

KLO	ae	500	-----
KOCW	z	250	(.5)
WBAA	ak	500	1
WBBC	z	500	2
WCGU	ak	500	2
WCMA	ak	500	1
WFOX	z	500	2
WKBF	ak	500	1W
WLTH	ae	500	2
XEP	z	200	-----

Ogden, Utah
Chickasha, Okla.
Lafayette, Ind.
Brooklyn, N. Y.
Brooklyn, N. Y.
Culver, Ind.
Brooklyn, N. Y.
Indianapolis, Ind.
Brooklyn, N. Y.
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
KGRS	ae	1000	1
WAAB	ae	500	CH
WBMC	z	500	C
WDAG	ae	1000	1
WHBL	ae	500	4
WHIS	ak	250	2
WODX	ea	500	3CU
WRBX	z	250	2
WSFA	ak	500	3C

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

Rockford Broadcasters, Inc.		
E. B. Gish		
Bay State Broadcasting Corp.		
James E. Davidson		
National Radio & Bdcgt. 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	-----
KBPS	aj	100	4
KCMC	ak	100	-----
KFIZ	ak	100	-----
KGFF	ak	100	-----
KGOC	z	100	5
KGIW	z	100	1
KGIX	ak	100	-----
KGKX	z	100	-----
KICK	z	100	Y
KIDW	z	100	1P
KORE	ae	100	-----
KUMA	ak	100	-----
KWCR	ae	100	B
KXL	ae	100	4
KXYZ	ak	100	-----
WAGM	ae	100	-----
WEHS	ak	100	a
WELL	z	50	-----
WENC	ak	100	D
WERE	ae	100	-----
WFDW	ae	100	-----
WHDL	ae	100	D
WHFC	ae	100	a
WILM	ae	100	-----
WJBO	z	100	D
WJMS	ak	100	D
WKBI	ak	100	a
WLBF	ae	100	-----
WMAS	z	100	CP
WMBC	ae	100	(.25)
WMBH	z	100	(.25)
WPAD	ak	100	-----
WSFA	ae	100	(.25)
WTBO	ae	100	(.25)

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

Alamo Bctg. Co., Inc. (Texas Theatre)		
Student Body Benson Polytech. School		
Texarkana Gazette & Daily News		
Reporter Printing Co.		
KGFF Bdcgt. 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 Bdcgt. 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 Bdcgt. Co. (Aladdin Hotel)		
Albert S. Moffet		
Michigan Broadcasting Co.		
Edwin Dudley Aber		
Paducah Bdcgt. Co. (Ritz Hotel)		
The Voice of South Carolina		
Associated Broadcasting Corp.		

1430 kilocycles 209.7 meters

KECA	ah	1000	N
KGNF	ak	500	D
WBAK	ak	500	1(1)

Los Angeles, Calif.
North Platte, Neb.
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 ICA(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)

1440 kilocycles 208.2 meters

CMBI z 30 1444 Havana, Cuba
 CMBL ak 20 1444 Havana, Cuba
 CMBN z 30 1444 Havana, Cuba
 KDFN ak 500 D Casper, Wyo.
 KLS ae 250 D Oakland, Calif.
 WBIG ae 500 C(1) Greensboro, N. C.
 WCBA ah 250 Allentown, Pa.
 WMBD ae 500 3C(1) Peoria, Ill.
 WSN 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.

1450 kilocycles 206.8 meters

KTBS ae 1000 N Shreveport, La.
 WBMS ak 250 I Hackensack, N. J.
 WGAR ak 500 B Cleveland, Ohio
 WHOM ae 250 I Jersey City, N. J.
 WNJ ak 250 I Newark, N. J.
 WSAH 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.

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.

1470 kilocycles 204.0 meters

KGA ak 5000 B Spokane, Wash.
 WLAC ae 5000 C Nashville, Tenn.

Northwest Broadcasting System
 Life & Casualty Insurance Co.

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.

1490 kilocycles 201.2 meters

WCKY ae 5000 N Covington, Ky.

L. B. Wilson, Inc. (Mabley & Carew)

1500 kilocycles 199.9 meters

CMBQ z 50 ----- Havana, Cuba
 CMBR z 15 ----- Havana, Cuba
 KDB ak 100 CT Santa Barbara, Calif.
 KGFI 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.
 KNOV 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 ----- Connorsville, Ind.
 WKBZ ak 100 ----- Ludington, Mich.
 WLOE z 100 (.25) Boston, Mass.
 WMBQ z 100 I Brooklyn, N. Y.
 WMIL ak 100 I Brooklyn, N. Y.
 WMPG 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 I Woodside, N. Y.
 WWSW ae 100 X Pittsburgh, Pa.

Gali-Sardinas
 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.

KCYS.
1500
 MTRS.
199.9
 DIAL

INDEX BY LOCATIONS WITH MAP KEY

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

ALABAMA			Watts	Keys.				Watts	Keys.
Anniston O-22	100	WFDW	1420				Santa Barbara M-2	100	KDB C 1500
Birmingham O-21	5000	WAPI N	1140				Stockton J-2	250	KGDM 1100
	500	WBRC C	930					100	KWG C 1200
	100	WKBC	1310				COLORADO		
Gadsen O-21	100	WBY	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	KFXF 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
ALASKA							Fort Morgan J-11	100	KGEW 1200
Anchorage	250	KFOD	1230				Grand Junction K-9	100	KFXJ 1310
Ketchikan	500	KGBU	900				Greeley J-11	500	KFKA 880
ARIZONA							Lamar L-12	100	KIDW 1420
Jerome M-6	100	KCRJ	1310				Pueblo L-11	250	KGHF 1320
Phoenix N-6	500	KOY C	1390				Trinidad L-11	100	KGIW 1420
	500	KTAR N	620				Yuma J-12	100	KGEK 1200
Prescott M-6	100	KPJM	1500				CONNECTICUT		
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
							Storrs H-28	250	WCAC 600
ARKANSAS							DELAWARE		
Blytheville M-19	50	KLCN	1290				Wilmington J-26	250	WDEL 1120
Fayetteville M-16	1000	KUOA	1390					100	WILM 1420
Fort Smith N-16	100	KFPW	1210				DISTRICT OF COLUMBIA		
Hot Spring N-17	10000	KTIS N	1040				Washington J-26	1000	WJSV C 1460
Little Rock N-17	250	KARK	890					250	WMAL C 630
	100	KGHI	1200					500	WRC R 950
	1000	KLRA C	1390					100	WOL 1310
Paragould M-18	100	KBTM	1200				FLORIDA		
Texarkana O-17	100	KCMC	1420				Clearwater R-24	1000	WFLA N 620
CALIFORNIA							Gainesville Q-24	5000	WRUF C 830
Bakersfield L-3	100	KERN C	1200				Jacksonville Q-24	1000	WJAX N 900
Berkeley J-2	100	KRE	1370				Miami T-25	1000	WIOD N 1300
Beverly Hills M-3	500	KMPC	710					1000	WQAM C 560
Burbank M-3	500	KELW	780				Orlando R-24	250	WDBO C 580
El Centro N-4	100	KXO	1500				Pensacola Q-21	500	WCOA 1340
Fresno K-2	500	KMJ C	580				St. Petersburg S-24	1000	WSUN N 620
Hollywood M-3	500	KMTR	570				Tampa R-24	1000	WDAE C 1220
	5000	KNX	1050					100	WMBR 1370
Long Beach M-3	1000	KFOX C	1250				GEORGIA		
Los Angeles M-3	1000	KGER	1360				Americus P-22	100	WENC 1420
	1000	KFCA N	1430				Athens O-23	500	WTFI 1450
	1000	KFAC	1300				Atlanta O-22	250	WGST C 890
	50000	KFT N	640					100	WJTL 1370
	500	KFSG	1120					5000	WSB N 740
	250	KFVD	1000				Augusta O-23	100	WRDW 1500
	1000	KFWB	950				Columbus Q-22	50	WRBI 1200
	100	KGFJ	1200				Macon O-23	500	WMAZ 1180
	1000	KHJ C	900				Rome N-22	100	WFDV 1500
	500	KRKD	1120				Savannah O-24	500	WTQC C 1260
	500	KTM	780				Thomasville Q-22	100	WQDX 1210
Oakland J-1	250	KLS	1440				HAWAII		
	500	KLX	880				Honolulu	250	KGMB C 1320
	500	KROW	930					1000	KGU N 750
Pasadena M-3	50	KPPC	1210				IDAHO		
Sacramento J-2	100	KFBK	1310				Boise G-5	1000	KIDO 1350
San Bernardino M-3	100	KFXM	1210				Idaho Falls G-7	250	KID 1320
San Diego N-3	500	KFSD N	600				Nampa G-5	100	KFXD 1200
	500	KGB	1330				Pocatello H-7	250	KSEI 890
San Francisco J-1	1000	KFRF C	610				Lewiston E-5	100	KGKX 1420
	500	KFWI	930				Twin Falls H-6	500	KTFI 1240
	100	KGCC	1420						
	7500	KGO N	790						
	100	KJBS	1070						
	5000	KPO N	680						
	1000	KTAB	560						
San Jose J-1	1000	KYA N	1230						
Santa Ana M-3	500	KQW	1010						
	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	WJJD	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
Decatur K-19	100	WJBL	1200
Galesburg J-18	100	WKBS	1310
Harrisburg L-19	100	WBEQ	1210
Joliet I-19	100	WCLS	1310
	100	WKBB	1310
La Salle J-19	100	WJBC	1200
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
Tuscola K-20	100	WDZ	1070
Urbana J-20	250	WILL	890
Zion I-20	5000	WCBD	1080

INDIANA

Anderson J-21	100	WHBU	1210
Connersville K-21	100	WKBV	1500
Culver I-20	500	WCMA	1400
Elkhart I-21	50	WJAK	1310
Evansville L-20	500	WGBF	630
Fort Wayne J-21	100	WGL	C 1370
	10000	WOWO	C 1160
Gary I-20	1000	WJKS	1360
Hammond I-20	100	WVAE	1200
Indianapolis J-21	1000	WFBM	C 1230
	500	WKBF	1400
	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
Des Moines I-17	5000	WHO	R 1000
Iowa City I-18	500	WSUI	880
Marshalltown I-17	100	KFJB	1200
Ottumwa J-17	100	WIAS	1310
Red Oak J-16	100	KICK	1420
Shenandoah J-16	500	KFNF	890
	500	KMA	930
Sioux City I-15	1000	KSCJ	C 1330
Waterloo I-17	500	WMT	C 600

KANSAS

	Watts		Keys.
Abilene K-14	5000	KFBI	1050
Coffeyville M-15	500	KGGF	1010
Dodge City L-13	100	KGNO	1210
Kansas City K-16	100	WLBF	1420
Lawrence K-16	500	KFKU	1220
	1000	WREN	B 1220
Manhattan K-15	500	KSAC	580
Topeka K-16	1000	WIBW	C 580
Wichita L-15	1000	KFH	C 1300

KENTUCKY

Covington K-22	5000	WCKY	N 1490
Hopkinsville M-20	1000	WFIW	C 940
Louisville L-21	25000	WHAS	C 820
	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	WJO	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	WFBZ	R 1270
Cumberland J-25	100	WTBO	1420
Hagerstown J-25	100	WJEJ	1210

MASSACHUSETTS

Babson Park G-28	500	WBSO	920
Boston G-2	500	WAAB	C 1410
	25000	WBZ	B 990
	1000	WEEI	R 590
	1000	WHDH	830
	100	WLOE	1500
	1000	WNAO	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	WMAZ	1420
Worcester G-28	100	WORC	C 1200
	250	WTAG	R 580

MICHIGAN

Battle Creek I-21	50	WELL	C 1420
Bay City H-22	500	WBCM	C 1410
Calumet E-19	100	WHDF	1370
Detroit H-22	50	WJBK	1370
	10000	WJR	B 750
	100	WMBC	1420
	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	NEVADA			
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	NEW HAMPSHIRE			
Jackson I-21	100	WBMS	1370	Laconia G-28	100	WKAU	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	NEW JERSEY			
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
MINNESOTA				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	1000	WAAM	1250
	1000	WLB	1250		250	WGCP	1250
Moorhead F-15	50	KGFK	1500		250	WNJ	1450
Northfield G-17	1000	KFMX	1250		5000	WOR	710
	1000	WCAL	1250	Paterson I-27	1000	WODA	1250
St. Paul G-17	10000	KSTP	N 1460	Red Bank I-27	100	WJBI	1210
MISSISSIPPI				Trenton I-26	500	WOAX	1280
Greenville O-18	100	WKFI	1210	Zarephath I-27	250	WAWZ	1350
Gulfport Q-19	100	WGCM	1210	NEW MEXICO			
Hattiesburg Q-19	100	WPFB	1370	Albuquerque N-7	250	KGGM	1230
Jackson P-19	1000	WJDX	N 1270	Clovis N-11	10000	KOB	1180
Kosciusko O-19	100	WHEF	1500	Santa Fe M-10	100	KICA	1370
Laurel P-20	100	WTSL	1310		100	KGFL	1370
Meridian P-20	500	WCOC	880	NEW YORK			
Tupelo N-20	500		990	Albany H-27	500	WOKO	C 1430
Vicksburg P-18	500	WQBC	1360	Auburn H-25	100	WMBO	1310
MISSOURI				Binghamton H-26	100	WNBF	1500
Cp. Girardeau L-19	100	KFVS	1210	Brooklyn I-27	500	WBBC	1400
Columbia K-17	500	KFRU	630		1000	WBRR	1300
Grant City J-16	100	KGIZ	1500		500	WCGU	1400
Jackson 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	WKBW	C 1480
	100	KGBX	1310		50	WSVS	1370
St. Louis L-18	500	KFUO	550	Canton F-26	500	WCAD	1220
	100	KFWF	1200	Freeport I-27	100	WGBB	1210
	50000	KMOX	C 1090	Glens Falls G-27	50	WESG	1370
	500	KSD	R 550	Ithaca H-25	1000	WEAI	1270
	1000	KWK	B 1350	Jamaica H-27	100	WMRJ	1210
	1000	WEW	760	Jamestown H-24	50	WOCL	1210
	100	WIL	1200	New York City I-27	50000	WABC	C 860
MONTANA					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
NEBRASKA					250	WHN	1010
Clay Center J-14	1000	KMMJ	740		30000	WJZ	B 760
Kearney J-14	100	KGFV	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	Rochester G-25	5000	WHAM	B 1150
					500	WHEC	C 1430

INDEX BY LOCATIONS WITH MAP KEY

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

	Watts		Keys.
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 I-27	100	WWRL	1500
White Plains I-27	100	WFAS	1210

NORTH CAROLINA

Asheville M-23	1000	WWNC N	570
Charlotte M-24	25000	WBTV C	1080
Gastonia M-24	100	WSOC	1210
Greensboro M-24	500	WBTV 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	KFJM	1370
Mandan F-13	250	KGCU	1240
Minot E-13	250	KLFPM	1240

OHIO

Akron I-23	1000	WADC C	1320
Canton I-23	10	WBHC	1260
Cincinnati K-22	1000	WKRC C	550
	50000	WLW B	700
	500	WSAI R	1330
Cleveland I-23	500	WGAR B	1450
	1000	WJK C	1390
	500	WJAY	610
	50000	WTAM R	1070
Columbus J-22	500	WATU	640
	500	WCAH C	1430
	750	WEAO	570
	100	WSEN	1210
Dayton J-22	200	WSMK	1380
Mansfield J-22	100	WJW	1210
Mount Orab K-22	100	WHBD	1370
Toledo I-22	1000	WSPD C	1340
Youngstown I-23	500	WKBN C	570
Zanesville J-23	100	WALR	1210

OKLAHOMA

Chickasha N-14	250	KOCW	1400
Elk City N-13	100	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
Ponca City M-15	100	WBBZ	1200
Shawnee N-15	100	KGFF	1420
Tulsa M-15	5000	KVOO N	1140

OREGON

Corvallis E-2	1000	KOAC	550
Eugene F-2	100	KORE	1420
Klamath Falls G-3	100	KFJI	1210
Marshfield F-1	100	KOOS	1370
Medford G-2	100	KMED	1310

	Watts		Keys.
Portland E-3	5000	KEX N	1180
	100	KBPS	1420
	500	KFJR	1300
	1000	KGW N	620
	1000	KOIN C	940
	500	KTRB	1300
	500	KWJJ	1060
	100	KXL	1420

PENNSYLVANIA

Allentown I-26	250	WCBA	1440
	250	WSAN	1440
Altoona I-25	100	WFBG	1310
Carbondale H-26	10	WNBW	1200
Erie H-24	100	WERE	1420
Glenside I-26	25	WBG	930
Grove City I-24	100	WSAJ	1310
Harrisburg I-25	500	WBAK	1430
	100	WCOD	1200
	500	WHP C	1430
	100	WJAC	1310
Johnstown J-24	100	WGAL	1310
Lancaster I-26	100	WKJC	1200
	100	WJBU	1210
Lewisburg I-26	500	WLBW C	1260
Oil City I-24	10000	WCAU C	1170
Philadelphia I-26	100	WDAS	1370
	500	WFAN C	610
	500	WFI R	560
	100	WHAT	1310
	500	WIP C	610
	500	WLIT R	560
	100	WPEN	1500
	250	WRAX	1020
	100	WTEL	1310
Pittsburgh J-24	50000	KDKA B	980
	5000	KQV	1380
	1000	WCAE R	1220
	1000	WJAS C	1290
	100	WWSW	1500
Reading I-26	1000	WEEU	830
	100	WRAW	1310
Scranton H-26	250	WGBI	880
	250	WQAN	880
Silverhaven J-24	100	WNBO	1200
State College I-25	500	WPSC	1230
Wilkes-Barre I-26	100	WBAX	1210
	100	WBRE	1310
Williamsport I-25	100	WRAK	1370
	100	WRRK	1370
York J-26	1000	WORK	1000

PHILIPPINES

Cebu	500	KZRC	937.5
Manila	1000	KZKA	1110
	50000	KZRM	618.5

PORTO RICO

San Juan W-34	1000	WKAQ	1240
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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	Kcys.		Watts	Kcys.
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	KGFY 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	WFAR C 780
Vermillion I-15	500	KUSD 890	Petersburg L-26	100	WPIR 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	WDDO 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	KGY 1210
	100	WROL 1310	Pullman E-5	1000	KWSC 1220
Memphis N-19	100	WHBQ C 1370	Seattle C-3	5000	KJR N 970
	500	WMC N 780		1000	KOL 1270
	500	WNRB 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 C 1340
				5000	KGA B 1470
				1000	KHQ N 590
			Tacoma D-3	250	KMO 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	KGFY 1500			
Dallas P-15	10000	KRLD C 1040			
	50000	WFAA N 800			
	500	WRR C 1280			
Dublin P-14	100	KFPL 1310			
El Paso P-9	100	KTSM 1310			
	100	WDAH 1310			
Fort Worth P-15	100	KFJZ 1370			
	1000	KTAT 1240			
	10000	WBAP N 800			
Galveston R-16	100	KFLX 1370			
	500	KFUL 1290			
Greenville O-15	15	KFFM 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	K TSA 1290			
	50000	WOAI N 1190			
Tyler P-16	100	KGBK 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	WHI 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		Keys.		Watts		Keys.
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	SASKATCHEWAN			
Red Deer A-8	1000	CKLC	840	Canora A-13	15	10-BU	1200
BRITISH COLUMBIA				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	Saskatoon B-11	500	CKCK	960
	500	CJOR	1210	Yorkton B-13	500	CFQC	910
	100	CKCD	730			CJGX	630
	50	CKFC	730	NEWFOUNDLAND			
	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
MANITOBA				CENTRAL AMERICA			
Brandon D-14	500	CKX	930	COSTA RICA			
Winnipeg D-15	500	CKY	780	San Jose FF-23	50	TICR	911
NEW BRUNSWICK				GUATAMALA			
Fredericton D-29	50	CFNB	1210	Guatemala CC-19	50	TGW	570
Moncton D-30	700	CNRA	630	SALVADOR			
St. John D-30	500	CFBO	890	Salvador CC-19	500	RUS	664
NOVA SCOTIA				MEXICO			
Glace Bay C-32	2000	VAS	685	AGUASCALIENTES			
Halifax E-31	500	CHNS	815	Aguascalientes W-10	250	XFC	810
	500	CNRH	815	BAJA CALIFORNIA			
	100	VCX	690	Tiajuana N-3	300	XEFD	845
Sydney C-32	100	CJCB	880	CHIHUAHUA			
Wolfville D-31	50	CKIC	1010	Chihuahua R-9	100	XEF1	1000
ONTARIO					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	COAHUILA			
Ft. William E-19	50	CKPR	890	Saltillo, Coah. U-12	25	XEL	1000
Hamilton H-24	50	CHML	880	Torreño 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	D. F.			
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	10-AP	1120		500	XETA	1140
Toronto G-24	500	CFCA	580		100	XETQ	1230
	10000	CFRL	580		2500	XETR	610
	500	CFR8	690		5000	XEW	910
	500	CKCL	580		500	XEX	1210
	5000	CKGW	840		500	XEZ	780
	500	CKNC	960		2000	XFG	638
	5000	CFRY	840		500	XFX	867
Waterloo G-23	100	CKCR	645		5000	XEC	1000
Windsor H-22	5000	CKOK	540				
Wingham G-23	25	10-BP	1199				
PRINCE EDWARD ISLAND							
Charlottetown C-31	500	CFCY	580				
	100	CHCK	960				
Summerside C-31	100	CHGS	1120				
QUEBEC							
Montreal E-26	500	CFCF	N 1030				
	5000	CHYC	730				
	5000	CKAC	C 730				

INDEX BY LOCATIONS WITH MAP KEY

JALISCO				Watts	Kcys.					Watts	Kcys.
Guadalajara, Jal. X-10	500	XEAX			1155	Cienfuegos W-25	75	CMHJ			1150
MICHOACAN						Colon W-24	30	CMGI			1150
Morelia, Mich. Y-12	150	XEI			1310	Guantanamo X-28	20	CMKJ			1300
NEUVO LEON						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
OAXACA							30	CMBI			1444
Oaxaca, Oax. AA-14	105	XEE			1000		20	CMBL			1444
PUEBLA							30	CMBN			1444
Puebla Z-13	101	XEV			1000		50	CMBO			1500
QUERETARO							15	CMBR			1500
Queretaro X-12	40	XEFS			1000		150	CMBS			790
TAMAULIPAS							150	CMBT			790
N. Laredo S-13	101	XEFE			1000		150	CMBW			1140
	200	XEP			1400		350	CMBY			1235
Reynosa, Tams. T-14	1000	XED			965		150	CMBZ			1010
Tampico, Tams. W-14	500	XEM			730		500	CMC			840
	500	XES			1055		150	CMCA			1235
VERA CRUZ							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
YUCATAN							100	CMCH			1395
Merida, Yuc. X-19	10	XEFC			1050		250	CMCJ			630
	105	XEY			1000		15	CMCM			1395
WEST INDIES							250	CMCN			925
BAHAMA							250	CMCO			660
Nassau, U-26	500	VPN			610		1000	CMCQ			1140
CUBA							150	CMCR			1345
Caibarien W-25	250	CMHD			950		150	CMCS			1270
Camaguey W-26	75	CMJC			1382		150	CMCW			1270
	20	CMJE			856		500	CMCY			1355
	225	CMJF			930		40	CMDB			1395
	50	CMJG			1050		5000	CMK			730
	50	CMJL			960		250	CMQ			630
Cardenas W-24	30	CMGE			1375		1500	CMW			1185
Ciego de Avila W-26	50	CMJH			1150		3000	CMX			890
	112	CMJI			1335		30	CMGB			1205
						Matanzas W-24	30	CMGC			820
							50	CMGF			987
							150	CMGH			1040
						Pinar del Rio W-22	20	CMAB			1249
						Santa Clara W-25	200	CMHI			1030
						Santiago X-28	150	CMKC			1034
						Tuinucu	250	CMHC			790
DOMINICAN REPUBLIC											
						Santo Domingo X-31	1000	HIX			630
HAITI											
						Port au Prince X-30	1000	HHK			920

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. Silent.	CKCO	890 Ottawa, Ont.	CMDB	1395 Havana, Cuba.
CFBO	890 St. John, N.B.	CKCR	645 Waterloo, Ont. 10 a.m.-1 p.m.; 5-10:30 p.m.	CMGB	1205 Matanzas, Cuba.
CFCA	1120 Toronto, Ont. 11 a.m.-noon; 5:30-10:30 p.m., EST.	CKCV	880 Quebec, Que. Silent.	CMGC	820 Matanzas, Cuba.
CFCF	1030 Montreal, Que. 7-11:15 p.m., EST.	CKFK	730 Vancouver, B. C.	CMGE	1375 Cardenas, Cuba.
CFCH	930 North Bay, Ont. 11 a.m.-12:30 p.m.; 5-6 p.m.; 8-15-9:15 p.m., EST.	CKGW	840 Toronto, Ont. 10:45 a.m.-11:15 p.m., EST.	CMGF	987 Matanzas, Cuba.
CFCL	580 Toronto, Ont.	CKIC	1010 Wolfville, N. S.	CMGH	1040 Matanzas, Cuba.
CFCN	985 Calgary, Alta. 11 a.m.-10:30 p.m., MST.	CKIK	840 Red Deer, Alta. 5:30-7:15 p.m., MST.	CMGI	1150 Colon, Cuba.
CFCO	1210 Chatham, Ont. 9:15 a.m.-9:30 p.m., EST.	CKIM	1210 Cobalt, Ont.	CMHC	790 Thunucu, Cuba.
CFCT	630 Victoria, B. C. 11 a.m.-12:15 p.m.; 7-9 p.m., PST.	CKIN	730 Vancouver, B. C.	CMHD	950 Caibarien, Cuba.
CFCY	580 Charlottetown, P. E. I. 11 a.m.-12:30 p.m.; 4-5:30 p.m.; 7-8:30 p.m., AST.	CKIO	960 Toronto, Ont. 11 a.m.-3 p.m.; 5-11:15 p.m., EST.	CMHI	1030 Santa Clara, Cuba. 11 a.m.-1 p.m.; 8-10 p.m., EST.
CFJC	1120 Kamloops, B. C. 12:30-2 p.m., PST.	CKIP	635 Hamilton, Ont. 8 a.m.-10:30 p.m., EST.	CMHJ	1150 Cienfuegos, Cuba. 11 a.m.-2 p.m.; 7-10 p.m., EST.
CFLC	915 Prescott, Ont. Silent.	CKIQ	540 Windsor, Ont. 8 a.m.-mid., EST.	CMJI	856 Camaguey, Cuba.
CFNB	1210 Fredericton, N. B.	CKIV	1200 Kelowna, B. C. 11 a.m.-1:30 p.m.; 7:30-9 p.m., PST.	CMJJ	930 Camaguey, Cuba.
CFQC	910 Saskatoon, Sask.	CKJC	880 Preston, Ont. 8:30-10 p.m., EST.	CMJK	1050 Camaguey, Cuba.
CFRB	690 Toronto, Ont. 10:30 a.m.-mid., EST.	CKJD	890 Ft. William, Ont. 5-9 p.m., EST.	CMJL	1382 Camaguey, Cuba.
CFRC	930 Kingston, Ont.	CKJE	635 St. Catharines, Ont. Noon-1 p.m.; 6-6:30 p.m., EST.	CMJM	630 Havana, Cuba.
CHCK	960 Charlottetown, P. E. I. 10:45 a.m.-12:30 p.m.; 2-3:30 p.m., AST.	CKJF	580 Edmonton, Alta. 3:30-4:30 p.m., MST.	CMJN	1185 Havana, Cuba.
CHGS	1120 Summerside, P. E. I. 11 a.m.-noon; 5:30-8:15 p.m., AST.	CKJG	730 Vancouver, B. C. Noon-1:30 p.m.; 5:30-6:30 p.m.; 9-11:30 p.m., PST.	CMJP	890 Havana, Cuba. 11 a.m.-2 p.m.; 8-10 p.m., EST.
CHLS	730 Vancouver, B. C. Silent.	CKJH	930 Brandon, Man. 6:45-8:30 p.m., CST.	CNRA	630 Moncton, N. B. 9:30-11 p.m., AST.
CHMA	580 Edmonton, Alta.	CKJI	780 Winnipeg, Man. 7-8:30 p.m., CST.	CNRH	815 Halifax, N. S.
CHML	880 Hamilton, Ont. 11 a.m.-12:30 p.m.; 7-8:30 p.m., EST.	CKJK	1249 Pinar del Rio, Cuba.	CNRO	600 Ottawa, Ont. 8:30-11 p.m., EST.
CHNS	915 Halifax, N. S. 7 p.m.-mid., AST.	CKJM	660 Havana, Cuba.	CNRV	1030 Vancouver, B. C. 2-3:30; 5:30-8:30 p.m. PST. 4-4:30 p.m., EST.
CHRC	645 Quebec, Que. Noon-mid., EST.	CKJN	965 Havana, Cuba. 2-11 p.m., EST.	CPRY	840 Toronto, Ont. 4-4:30 p.m., EST.
CHWC	960 Regina, Sask. 4-9 p.m., MST.	CKJO	965 Havana, Cuba.	HHK	920 Port au Prince, Haiti.
CHWK	665 Chilliwack, B. C. Silent.	CKJP	1444 Havana, Cuba.	HIX	630 Santo Domingo. 2:10-3:40 p.m., EST.
CHYC	730 Montreal, Que.	CKJQ	1444 Havana, Cuba.	KABC	1420 San Antonio, Tex. 8:30 a.m.-2 p.m.; 7-11:30 p.m., CST.
CJCA	745 Edmonton, Alta. 11 a.m.-12:30 p.m., MST.	CKJR	1444 Havana, Cuba.	KARK	890 Little Rock, Ark. 8-10 a.m.; 5-9 p.m., CST.
CJCB	880 Sydney, N. S. Noon-3 p.m.; 7-11 p.m., AST.	CKJS	1500 Havana, Cuba.	KASA	1210 Elk City, Okla. 7 a.m.-9 p.m., CST.
CJCC	690 Calgary, Alta. 9:30-10:45 a.m.; 6-7:15 p.m., MST.	CKJT	790 Havana, Cuba.	KBPS	1420 Portland, Ore. Silent.
CJCG	595 London, Ont. 11 a.m.-12:30 p.m.; 6:30-8:30 p.m., EST.	CKJU	1140 Havana, Cuba.	KBTM	1200 Paragould, Ark. 7:30 a.m.-noon; 4-6:15 p.m., CST.
CJGX	630 Yorkton, Sask. 6:45-8:30 p.m., CST.	CKJV	1235 Havana, Cuba.	KCMC	1420 Texarkana, Ark. 8-9 a.m.; 11 a.m.-1:15 p.m.; 5-6:30 p.m., CST.
CJOC	1120 Lethbridge, Alta.	CKJW	1010 Havana, Cuba. 9-10:30 a.m.; 6-7 p.m., EST.	KCRC	1370 Euclid, Okla. 11 a.m.-3 p.m., CST.
CJOR	1210 Vancouver, B. C. 10:30 a.m.-noon; 3-9 p.m., PST.	CKJX	840 Havana, Cuba.	KCRJ	1310 Jerome, Ariz. Silent.
CJRM	665 Moose Jaw, Sask.	CKJY	1235 Havana, Cuba.	KDB	1500 Santa Barbara, Calif. 8 a.m.-mid., PST.
CJRW	665 Flensing, Sask.	CKK1	1070 Havana, Cuba.	KDFN	1440 Casper, Wyo. 10-11 a.m., MST.
CKAK	730 Montreal, Que. 1-11 p.m., EST.	CKK2	11 a.m.-1 p.m.; 9 p.m.-mid., EST.	KDKA	980 Pittsburgh, Pa. 10:55 a.m.-mid., EST.
CKKD	730 Vancouver, B. C.	CKK3	925 Havana, Cuba. Noon-3 p.m.; 8 p.m.-mid., EST.	KDLR	1210 Devils Lake, N. D. Silent.
CKCI	645 Quebec, Que. Silent.	CKK4	890 Havana, Cuba.	KDYL	1290 Salt Lake City, Utah. 6:30 a.m.-1 a.m. next day, MST.
CKCK	960 Regina, Sask. 10 a.m.-4 p.m.; 9 p.m.-mid., MST.	CKK5	1395 Havana, Cuba.	KECA	1430 Los Angeles, Calif. 9 a.m.-11 p.m., PST.
CKCL	580 Toronto, Ont. 5:15-8 p.m., EST.	CKK6	1395 Havana, Cuba.	KELW	780 Burbank, Calif. 10 a.m.-1 p.m.; 5-8 p.m., PST.
		CKK7	1395 Havana, Cuba.	KERN	1200 Bakersfield, Calif.

KEX	1180 Portland, Ore. 8 a.m.-noon; 1 p.m.-mid., PST.	KFSG	1120 Los Angeles, Calif. 10:30 a.m.-12:45 p.m.; 2:30-4:30 p.m.; 6:30 p.m.-mid., PST.	KGFV	1310 Kearney, Neb. 8 a.m.-noon; 2:30-5 p.m., CST.
KFAB	770 Lincoln, Neb. 9 a.m.-10:30 p.m., CST.	KFUL	1290 Galveston, Texas. 9:15-10:45 a.m.; 1-6:30 p.m.; 9:30-mid., CST.	KGFH	630 Pierre, S. D.
KFAC	1300 Los Angeles, Calif.	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.	KGGC	1420 San Francisco, Calif.
KFBB	1280 Great Falls, Mont. 9:30 a.m.-1:30 p.m.; 6:30-10 p.m., MST.	KFVD	1000 Los Angeles, Calif.	KGGF	1010 Coffeyville, Kans. 1-15 p.m., CST.
KFBI	1050 Milford, Kans. 8-9 a.m., CST.	KFVS	1210 Cape Girardeau, Mo. 9 a.m.-4 p.m.; 9:30 p.m.-mid., CST.	KGGM	1230 Albuquerque, N. M. 10 a.m.-2 p.m., MST.
KFBK	1310 Sacramento, Calif.	KFWB	950 Los Angeles, Calif. 8 a.m.-11 p.m., PST.	KGHF	1320 Pueblo, Colo.
KFBL	1370 Everett, Wash. 6 a.m.-1 p.m.; 7-9:30 p.m., PST.	KFWF	1200 St. Louis, Mo.	KGHI	1200 Little Rock, Ark.
KFDM	560 Beaumont, Texas. Silent.	KFWI	930 San Francisco, Calif. 2:30-6 p.m.; 7:45-9 p.m., PST.	KGHL	950 Billings, Mont. 10 a.m.-4 p.m.; 5:30-11 p.m., MST.
KFDY	550 Brookings, S. D. Silent.	KFXD	1200 Nampa, Idaho. 10 a.m.-6:30 p.m., MST.	KGIR	1360 Butte, Mont. 9 a.m.-mid., MST.
KFEL	920 Denver, Colo. 10 a.m.-7:30 p.m., MST.	KFXE	920 Denver, Colo.	KGIW	1420 Trinidad, Colo.
KFEQ	680 St. Joseph, Mo. 11:30 a.m.-7:45 p.m., CST.	KFXJ	1310 Grand Junction, Colo. 8 a.m.-2 p.m.; 6-9 p.m., MST.	KGIX	1420 Las Vegas, Nev. Silent.
KFGQ	1310 Boone, Iowa.	KFXM	1210 San Bernardino, Calif. 3-6 p.m., PST.	KGIZ	1500 Grant City, Mo.
KFH	1300 Wichita, Kans. 8-11 a.m.; 1-7 p.m.; 9-11 p.m., CST.	KFXR	1310 Oklahoma City, Okla.	KGKB	1500 Tyler, Texas. 9:45 a.m.-2 p.m.; 7-9:30 p.m., CST.
KFI	640 Los Angeles, Calif. 6:30 a.m.-mid., PST.	KFYO	1310 Lubbock, Texas.	KGKL	1370 San Angelo, Texas. 8:45 a.m.-2 p.m.; 7-9:30 p.m., CST.
KFIO	1120 Spokane, Wash. 8 a.m.-sunset, PST.	KFYR	550 Bismarck, N. D. 9 a.m.-11 p.m., CST.	KGKO	570 Wichita Falls, Texas.
KFIZ	1420 Fond du Lac, Wis. Silent.	KGA	1470 Spokane, Wash. 8 a.m.-mid., PST.	KGKY	1500 Scottsbluff, Neb. 10 a.m.-1:30 p.m., MST.
KFJB	1200 Marshalltown, Iowa.	KGAR	1370 Tucson, Ariz. 8 a.m.-11 p.m., MST.	KGMB	1320 Honolulu, Hawaii. 11 a.m.-noon; 5:45-9:30 p.m. (Zone 5)
KFJF	1480 Oklahoma City, Okla. 7 a.m.-1 a.m. next day, CST.	KGB	1330 San Diego, Calif. 8 a.m.-mid., PST.	KGNF	1430 North Platte, Neb. 10:30 a.m.-noon; 2-4 p.m. MST.
KFJI	1210 Klamath Falls, Ore. 9 a.m.-9 p.m., PST.	KGRU	900 Ketchikan, Alaska.	KGNO	1210 Dodge City, Kans. 2-3 p.m., MST.
KFJM	1370 Grand Forks, N. D. 9 a.m.-9 p.m., CST.	KGBX	1310 St. Joseph, Mo. 7:30 a.m.-1 p.m.; 3:30-10 p.m., CST.	KGO	790 San Francisco, Calif. 8 a.m.-mid., PST.
KFJR	1300 Portland, Ore. Silent.	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.	KGRS	610 Amarillo, Texas. 10 a.m.; 11 a.m.-3 p.m.; 5-7:30 p.m.; 10 p.m.-mid., CST.
KFJZ	1370 Fort Worth, Texas. 7:30 a.m.-11 p.m., CST.	KGCA	1270 Decorah, Iowa. 10:45 a.m.-noon, CST. (Nov.-April)	KGU	750 Honolulu, Hawaii. 9 a.m.-noon; 3:15 p.m.-10. (Zone 5)
KFKA	880 Greeley, Colo. Silent.	KGCR	1210 Watertown, S. D. 9 a.m.-2 p.m., CST.	KGVO	1200 Missoula, Mont. 10 a.m.-6 p.m., MST.
KFKU	1220 Lawrence, Kans. 4-5 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.	KGW	620 Portland, Ore. 8 a.m.-mid., PST.
KFKX	1020 Chicago, Ill.	KGCX	1310 Wolf Point, Mont. 1-2 p.m., MST.	KGY	1210 Olympia, Wash. Silent.
KFLV	1410 Rockford, Ill. 10 a.m.-2:30 p.m.; 6-9:30 p.m., CST.	KGDA	1370 Mitchell, S. D. Silent.	KHJ	900 Los Angeles, Calif. 8 a.m.-mid., PST.
KFLX	1370 Galveston, Texas.	KGDE	1200 Fergus Falls, Minn. 9 a.m.-9 p.m., CST.	KHQ	590 Spokane, Wash. 9 a.m.-mid., PST.
KFMX	1250 Northfield, Minn. 7-8 p.m., CST.	KGDM	1100 Stockton, Calif. 6 a.m.-sunset, PST.	KICA	1370 Clovis, N. M.
KFNF	890 Sheandoah, Iowa. 8-9:30 a.m.; 10:45 a.m.-noon; 2-8 p.m., CST.	KGDY	1200 Huron, S. D.	KICK	1420 Red Oak, Iowa.
KFOR	1210 Lincoln, Neb. 8-10:15 a.m.; 1:30-3:30 p.m.; 4:30-8 p.m., CST.	KGEK	1200 Yuma, Colo. 2-4 p.m., MST. (Oct. 1st)	KID	1320 Idaho Falls, Idaho. 7 a.m.-10 p.m., MST.
KFOX	1250 Long Beach, Calif. 6 a.m.-midnight, PST.	KGER	1360 Long Beach, Calif. 7 a.m.-midnight, PST.	KIDO	1350 Boise, Idaho. 9 a.m.-4 p.m., MST.
KFPL	1310 Dublin, Texas. Silent.	KGEW	1200 Ft. Morgan, Colo. 11 a.m.-noon, MST.	KIDW	1420 Lamar, Colo.
KFFM	1310 Greenville, Texas. Silent.	KGEZ	1310 Kalispell, Mont. 8 a.m.-9 p.m., MST.	KIIT	1310 Yakima, Wash. 9 a.m.-2 p.m.; 6:45-10:30 p.m., PST.
KFPW	1210 Fort Smith, Ark. 10 a.m.-2 p.m.; 5-10:30 p.m., CST.	KGFF	1420 Shawnee, Okla. 10:15 a.m.-9 p.m., CST.	KJBS	1070 San Francisco, Calif. Mid. to local sunset, PST.
KFPY	1340 Spokane, Wash. 9 a.m.-mid., PST.	KGFG	1370 Oklahoma City, Okla.	KJR	970 Seattle, Wash. 8 a.m.-mid., PST.
KFQD	1230 Anchorage, Alaska. 5-7 p.m. (Zone 6)	KGFI	1500 Corpus Christi, Texas. 8:30-9:30 a.m.; 11 a.m.-noon; 8-9 p.m., CST.	KLCN	1290 Blytheville, Ark.
KFRC	610 San Francisco, Calif. 8 a.m.-mid., PST.	KGFJ	1200 Los Angeles, Calif. 12 hours daily.	KLO	1400 Ogden, Utah. 9 a.m.-10:30 p.m., MST.
KFRU	630 Columbia, Mo. 7:30 a.m.-noon; 4:45-5:30 p.m., CST.	KGFK	1500 Moorhead, Minn. 9 a.m.-9 p.m., CST.	KLPM	1240 Minot, N. D. 9-11:45 a.m.; 1:30-2:30 p.m.; 5-8 p.m., CST.
KFSD	600 San Diego, Calif. 8 a.m.-11 p.m., PST.	KGFL	1370 Santa Fe, N. M. Noon-2 p.m., MST.	KLRA	1390 Little Rock, Ark. 8-11 a.m.; 1-5 p.m.; 6:30-11 p.m., CST.

KLS	1440 Oakland, Calif. 10 a.m.-5 p.m., PST.	KQV	1380 Pittsburgh, Pa. 11 a.m.-8:30 p.m., EST.	KUSD	890 Vermillion, S. D. Silent.
KLX	880 Oakland, Calif. Noon-11 p.m., PST.	KQW	1010 San Jose, Calif. 10:15 a.m.-12:30 p.m.; 7:30-9:30 p.m., PST.	KVI	570 Tacoma, Wash. 8 a.m.-mid., PST.
KLZ	560 Denver, Colo. 8 a.m.-11:30 p.m., MST.	KRE	1370 Berkeley, Calif. 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. 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. 9:30 a.m.-12:30 p.m.; 7:30-9:30 p.m., PST.	KVOA	1260 Tucson, Ariz.
KMAC	1370 San Antonio, Texas. 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. 8:9-20 a.m.; 10-11 a.m.; 12:30-2 p.m.; 7-9 p.m., CST.	KVOO	1140 Tulsa, Okla. 9 a.m.-8:15 p.m., CST.
KMBC	950 Kansas City, Mo. 6:15 a.m.-mid., CST.	KRKD	1120 Los Angeles, Calif. 6:10-30 a.m.; 12:15-2:30 p.m.; 4:30-6:30 p.m., PST.	KVOR	1270 Colorado Springs, Colo. 8 a.m.-10 p.m., MST.
KMED	1310 Medford, Ore. 8 a.m.-9:30 p.m., PST.	KRLD	1040 Dallas, Texas. 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. 8:30 a.m.-11 p.m., PST.	KRMD	1310 Shreveport, La. 7 a.m.-1 p.m.; 4-7 p.m., CST.	KWCR	1420 Cedar Rapids, Iowa. 6:30 a.m.-mid., CST.
KMLB	1200 Monroe, La.	KROW	930 Oakland, Calif. 8 a.m.-2:30 p.m.; 6-11 p.m., PST.	KWEA	1210 Shreveport, La.
KMMJ	740 Clay Center, Neb. 7:30-9:45 a.m.; 11 a.m.-noon; 1-4:30 p.m., CST.	KRSC	1120 Seattle, Wash. Sunrise to local sunset, PST.	KWG	1200 Stockton, Calif. 8:30 a.m.-11 p.m., PST.
KMO	1330 Tacoma, Wash. 7 a.m.-6 p.m., PST.	KSAC	580 Manhattan, Kans. Silent.	KWJW	1060 Portland, Ore.
KMOX	1090 St. Louis, Mo. 6:45 a.m.-1 a.m. next day, CST.	KSCJ	1330 Sioux City, Iowa. 7:30 a.m.-11 p.m., CST.	KWK	1350 St. Louis, Mo. 6:55 a.m.-11 p.m., CST.
KMPC	710 Beverly Hills, Calif.	KSD	580 St. Louis, Mo. 12:30-3 p.m.; 4:30-9:15 p.m., CST.	KWKC	1370 Kansas City, Mo.
KMTR	570 Hollywood, Calif.	KSEI	890 Pocatello, Idaho. 10 a.m.-11 p.m., MST.	KWKH	850 Shreveport, La. 7:45 p.m.-mid., CST.
KNOW	1500 Austin, Texas. 7:30-10:30 a.m.; noon-3 p.m.; 5-8 p.m., CST.	KSL	1130 Salt Lake City, Utah. 8 a.m.-mid., MST.	KWLC	1270 Decorah, Iowa. 9:30-10:30 a.m., CST.
KNX	1050 Hollywood, Calif. 6:30 a.m.-10:30 p.m., PST.	KSO	1380 Clarinda, Iowa. 1110 Sioux Falls, S. D. 9 a.m.-7:30 p.m.; 9:30 p.m.-mid., CST.	KWSC	1220 Pullman, Wash. Silent.
KOA	830 Denver, Colo. 8:30 a.m.-mid., MST.	KSOO	1460 St. Paul, Minn. 8 a.m.-mid., CST.	KWWG	1260 Brownsville, Texas. 760 Seattle, Wash. 7 a.m.-sundown; 9 p.m.-mid., PST.
KOAC	550 Corvallis, Ore. Silent.	KSTP	560 San Francisco, Calif. 8:30 a.m.-mid., PST.	KXXL	1420 Portland, Ore. 8 a.m.-mid., PST.
KOB	1180 Albuquerque, N. M. 7 a.m.-9 p.m., MST.	KTAR	620 Phoenix, Ariz. 8 a.m.-11 p.m., MST.	KXO	1500 El Centro, Calif.
KOCW	1400 Chickasha, Okla.	KTAT	1240 Ft. Worth, Texas.	KXRO	1310 Aberdeen, Wash. 10 a.m.-7 p.m., PST.
KOH	1380 Reno, Nev. 8 a.m.-9 p.m., PST.	KTBR	1300 Portland, Ore.	KXYZ	1420 Houston, Texas. 8:30-10:30 a.m.; 11 a.m.-1:15 p.m.; 6-10:30 p.m., CST.
KOIL	1260 Council Bluffs, Iowa. 8:15 a.m.-1 a.m. next day, CST.	KTBS	1450 Shreveport, La. 6 a.m.-mid., CST.	KYA	1230 San Francisco, Calif. 8:45 a.m.-11 p.m., PST.
KOIN	940 Portland, Ore. 8 a.m.-mid., PST.	KTFI	1240 Twin Falls, Idaho. 10 a.m.-11 p.m., MST.	KYW	1020 Chicago, Ill. 8 a.m.-1 a.m. next day, CST.
KOL	1270 Seattle, Wash. 8 a.m.-mid., PST.	KTHS	1040 Hot Springs, Ark. 11 a.m.-3 p.m.; 6:15-7:45 p.m.; 9:15-10:30 p.m., CST.	NAA	690 Arlington, Va.
KOMO	920 Seattle, Wash. 8 a.m.-11 p.m., PST.	KTLC	1310 Houston, Texas. 8 a.m.-1 p.m.; 6-11 p.m., CST.	RUS	564 Salvador.
KONO	1370 San Antonio, Texas. 9-11 a.m.; 12:30-2 p.m.; 4-6 p.m.; 8-10 p.m., CST.	KTM	780 Los Angeles, Calif. 7-10 a.m.; 1-5 p.m.; 8 p.m.-4 a.m., PST.	TGW	670 Guatemala.
KOOS	1370 Marshfield, Ore. Silent.	KTRH	1120 Houston, Texas. 8-11 a.m.; noon-3:30 p.m.; 5-11:30 p.m., CST.	TICR	911 San Jose, C. R.
KORE	1420 Eugene, Ore. 10 a.m.-1:30 p.m.; 6-9 p.m., PST.	KTSA	1290 San Antonio, Texas. 7:30-9 a.m.; 10:45 a.m.-1 p.m.; 6:30-9:30 p.m., CST.	VAS	685 Glouce Bay, N. S.
KOY	1390 Phoenix, Ariz. 9:30 a.m.-9 p.m., MST.	KTSM	1310 El Paso, Texas.	VCCX	690 Halifax, N. S.
KPCB	650 Seattle, Wash. 6:30 a.m.-8 p.m.; 10 p.m., 4 a.m., PST.	KTW	1220 Seattle, Wash.	VOAS	810 St. Johns, N. F. Silent.
KPJM	1500 Prescott, Ariz.	KUJ	1370 Walla Walla, Wash. 7:45 a.m.-local sunset, PST.	VOGT	893 Wabana, N. F. 9 p.m.-10 (Zone 19)
KPO	680 San Francisco, Calif. 8 a.m.-mid., PST.	KUMA	1420 Yuma, Ariz. 6-9 p.m., MST.	VONA	950 St. Johns, N. F.
KPOF	880 Denver, Colo. 7:30-9 a.m.; 2:30-4:30 p.m.; 7:30-9 p.m., MST.	KUOA	1390 Fayetteville, Ark. 7-8 a.m.; 11 a.m.-1 p.m.; 5-6:30 p.m., CST.	VOWR	750 St. Johns, N. F. 11 a.m.-12:30 p.m.; 6:30-7:50 p.m., Nfld. time.
KPPC	1210 Pasadena, Calif. 9:30 a.m.-12:30 p.m.; 7:30-9 p.m., PST.			VPN	610 Nassau, B. I.
KPQ	1500 Wenatchee, Wash. 9 a.m.-1:15 p.m., PST.			WAAB	1410 Boston, Mass. 10 a.m.-11:30 p.m., EST.
KPRC	920 Houston, Texas. 8 a.m.-mid., CST.			WAAF	920 Chicago, Ill. 6 a.m.-local sunset, CST.
				WAAM	1250 Newark, N. J. 11 a.m.-12:30 a.m., EST.
				WAAT	940 Jersey City, N. J. 6 a.m.-6 p.m., CST.
				WAAW	660 Omaha, Neb.
				WABC	860 New York City 8 a.m.-1 a.m., EST.
				WABI	1200 Bangor, Maine. 6 a.m.-3 p.m.; 6-9 p.m., EST.
				WABZ	1200 New Orleans, La.
				WACO	1240 Waco, Texas. 9:30-11 a.m.; 1-3 p.m.; 5-7:30 p.m., CST.
				WADC	1320 Akron, Ohio 11 a.m.-mid., EST.
				WAGM	1420 Presque Isle, Me. Silent.

WAIU 640 Columbus, Ohio. 8 a.m.-local sunset, EST.	WCAT 1200 Rapid City, S. D.	WDZ 1070 Tuscola, Ill. 9 a.m.-5 p.m., CST.
WALR 1210 Zanesville, Ohio. 10 a.m.-10 p.m., EST.	WCAU 1170 Philadelphia, Pa. 9 a.m.-1 a.m., EST.	WEAF 660 New York City. 8 a.m.-1 a.m., EST.
WAPI 1140 Birmingham, Ala. 9 a.m.-7:45 p.m.; 8:15 p.m.-mid., CST.	WCAX 1200 Burlington, Vt.	WEAI 1270 Ithaca, N. Y. Variable.
WASH 1270 Grand Rapids, Mich. 9 a.m.-11 p.m., CST.	WCAZ 1070 Carthage, Ill. Silent.	WEAN 730 Providence, R. I. 8 a.m.-1 a.m., EST.
WAWZ 1350 Zarephath, N. J. 6-9 a.m.; 11 a.m.-12:30 p.m.; 3-4:30 p.m.; 7:30-9 p.m., EST.	WCBA 1440 Allentown, Pa. 10 a.m.-noon; 5:30-11:30 p.m., EST.	WEAO 570 Columbus, Ohio. Silent.
WBAA 1400 Lafayette, Ind. Silent.	WCBD 1080 Zion, Ill. 6-11 a.m.; 3:30-local sunset, CST.	WEBC 1290 Superior, Wis. 9 a.m.-10:45 p.m., CST.
WBKA 1430 Harrisburg, Pa. Silent.	WCBM 1370 Baltimore, Md. 9:30 a.m.-11 p.m., EST.	WEBQ 1210 Harrisburg, Ill. 6-9 a.m.; 4-9:30 p.m., CST
WBAL 1060 Baltimore, Md. 7 a.m.-mid., EST.	WCBS 1210 Springfield, Ill. 10:45 a.m.-2 p.m.; 7-7:30 p.m., CST.	WEBR 1310 Buffalo, N. Y. 10 a.m.-1 a.m., EST.
WBAP 800 Fort Worth, Texas. 10 a.m.-noon; 3-6 p.m.; 9:30- mid., CST.	WCCO 810 Minneapolis, Minn. 9 a.m.-11 p.m., CST.	WEDC 1210 Chicago, Ill. WEI 590 Boston, Mass. 10 a.m.-11:30 p.m., EST.
WBAX 1210 Wilkes Barre, Pa. 1-11 p.m., EST.	WCDA 1350 New York City.	WEEU 830 Reading, Pa. 10 a.m.-7:30 p.m., EST.
WBBC 1400 Brooklyn, N. Y.	WCFL 970 Chicago, Ill. 8 a.m.-mid., CST.	WEHC 1350 Emory, Va. 8:30-9 a.m.; 11 a.m.-noon; 2:30- 3:30 p.m., EST.
WBBL 1210 Richmond, Va.	WCGU 1400 Brooklyn, N. Y. 10:30 a.m.-noon; 7-9 p.m., EST.	WEHS 1420 Cicero, Ill. 4-8 p.m., CST.
WBMM 770 Chicago, Ill. 8:45 a.m.-10 p.m.; 11:30 p.m.- 2 a.m., CST.	WCKY 1490 Covington, Ky. 11 a.m.-mid., CST.	WELL 1420 Battle Creek, Mich. WENC 1420 Americas, Ga. 9 a.m.-1 p.m.; 5-local sunset, EST.
WBRR 1300 Brooklyn, N. Y. 8-11 a.m.; 3-8 p.m., EST.	WCLO 1200 Janesville, Wis. 10 a.m.-noon, CST.	WENR 870 Chicago, Ill. 8 a.m.-12:30 p.m.; 3:30-6 p.m.; 8 p.m.-1 a.m., CST.
WBZZ 1200 Ponca City, Okla. 7 a.m.-7 p.m., CST.	WCLS 1310 Joliet, Ill. 9 a.m.-2 p.m.; 6-8 p.m., CST.	WERE 1420 Erie, Pa. 11 a.m.-2:30 p.m.; 5:30-10:30 p.m., EST.
WBCM 1410 Bay City, Mich.	WCMA 1400 Culver, Ind. 6:30-9:30 a.m.; 10:30 p.m.-mid., CST.	WESG 1370 Glens Falls, N. Y.
WBEN 900 Buffalo, N. Y. 9 a.m.-mid., EST.	WCOA 1340 Pensacola, Fla. 10:30 a.m.-3 p.m., CST.	WEVD 1300 New York City. 11 a.m.-3 p.m.; 8-9 p.m.; 10-11 p.m., EST.
WBEO 1310 Marquette, Mich.	WCOC 880 Meridian, Miss. 9:30 a.m.-3:30 p.m.; 5-11 p.m., CST.	WEW 760 St. Louis, Mo. 9:30 a.m.-5:30 p.m., CST.
WBHS 1200 Huntsville, Ala.	WCOD 1200 Harrisburg, Pa. 2nd and 4th Sundays, 11 a.m.- noon; other Sundays 12:15- 7:15 p.m., EST.	WEXL 1310 Royal Oak, Mich. 9 a.m.-9 p.m., EST.
WBIG 1440 Greensboro, N. C. 9:45 a.m.-10 p.m., EST.	WCRW 1210 Chicago, Ill. 11:30 a.m.-1:30 p.m.; 6-7 p.m.; 9-10 p.m., CST.	WFAA 800 Dallas, Texas. 7:30-10 a.m.; noon-3 p.m.; 6- 9:30 p.m., CST.
WBMS 1450 Haekesack, N. J. Noon-2 p.m.; 5:45-7:30 p.m., EST.	WCSC 1360 Charleston, S. C.	WFAB 1300 New York City.
WBNX 1350 New York City. 12:30-3 p.m.; 4:30-6 p.m., EST.	WCSS 940 Portland, Maine. 10:30 a.m.-noon; 1-11:25 p.m., EST.	WFAM 1200 South Bend, Ind.
WBOQ 860 New York City.	WCDAE 1220 Tampa, Fla. 8 a.m.-mid., EST.	WFAN 610 Philadelphia, Pa. 9 a.m.-mid., EST.
WBOW 1310 Terre Haute, Ind. 9 a.m.-11 p.m., CST.	WCDAF 610 Kansas City, Mo. 8 a.m.-11 p.m., CST.	WFAS 1210 White Plains, N. Y. 6-9 p.m., EST.
WBRC 930 Birmingham, Ala. 10 a.m.-11:30 p.m., CST.	WCDAI 1410 Amarillo, Texas. 10-11 a.m.; 3-5 p.m.; 7:30-10 p.m., CST.	WFBE 1200 Cincinnati, Ohio. 8 a.m.-11 p.m., EST.
WBRE 1310 Wilkes Barre, Pa.	WCDAH 1310 El Paso, Texas.	WFBG 1310 Altoona, Pa. 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. Silent.	WCDAW 1370 Philadelphia, Pa. 9 a.m.-10:30 p.m., EST.	WFBL 1360 Syracuse, N. Y. 8 a.m.-mid., CST.
WBT 1080 Charlotte, N. C. 8 a.m.-mid., EST.	WCDAZ 940 Fargo, N. D. 8 a.m.-11 p.m., CST.	WFBM 1230 Indianapolis, Ind. 7:30-10:30 a.m.; 1 p.m.-mid., CST.
WBTM 1370 Danville, Va.	WCDBJ 930 Roanoke, Va. 8 a.m.-mid., EST.	WFBR 1270 Baltimore, Md. 9 a.m.-mid., EST.
WBZ 990 Boston, Mass. 10 a.m.-mid., EST.	WCDBO 580 Orlando, Fla. 7 a.m.-mid., EST.	WFDF 1310 Flint, Mich. 6-11 p.m., CST.
WBZA 990 Springfield, Mass. 10 a.m.-mid., EST.	WCDEL 1120 Wilmington, Del. 10:30 a.m.-1:30 p.m.; 6-10 p.m., EST.	WFDV 1500 Rome, Ga. 9 a.m.-3 p.m.; 6-9 p.m., CST.
WCAC 600 Storrs, Conn. Silent.	WCDEV 550 Waterbury, Vt. 10:30 a.m.-noon, EST.	WFDW 1420 Anniston, Ala. 10 a.m.-12:30 p.m.; 5-10 p.m. CST.
WCAD 1220 Canton, N. Y. Silent.	WCDBG 1180 Minneapolis, Minn. 6:30 a.m.-8:15 p.m., CST.	WFEA 1430 Manchester, N. H. 9 a.m.-11 p.m., EST.
WCAE 1220 Pittsburgh, Pa. 10:30 a.m.-mid., EST.	WCDDO 1280 Chattanooga, Tenn. 7 a.m.-11 p.m., CST.	WFI 560 Philadelphia, Pa. 1-2 p.m.; 4:30-6 p.m.; 9-mid., EST.
WCAH 1430 Columbus, Ohio. 8 a.m.-mid., EST.	WCDRD 1330 Hartford, Conn. 10 a.m.-mid., EST.	
WCAJ 590 Lincoln, Neb. 8:30-9 a.m.; 11 a.m.-12:30 p.m.; 6-7 p.m., CST.	WCDSU 1250 New Orleans, La. 7 a.m.-11:45 p.m., CST.	
WCAL 1250 Northfield, Minn. 8:15-9:30 a.m.; 3-4 p.m., CST.		
WCAM 1280 Camden, N. J. 10:15 a.m.-12:30 p.m.; 3-5 p.m., EST.		
WCAO 600 Baltimore, Md. 9 a.m.-mid., EST.		
WCAP 1280 Asbury Park, N. J. 9-10:15 a.m.; 8-9 p.m., EST.		

WFIW 940 Hopkinsville, Ky. 7 a.m.-noon; 12:30-4 p.m.; 5- mid., CST.	WHFC 1420 Cicero, Ill. 8 a.m.-4 p.m.; 8 p.m.-1 a.m. CST.	WJDX 1270 Jackson, Miss. 12:30-10 p.m., CST.
WFLA 620 Clearwater, Fla. 8 a.m.-mid., EST.	WHIS 1410 Bluefield, W. Va. 9-9:40 a.m.; noon-3 p.m., EST.	WJED 600 Indianapolis, Ind.
WFOX 1400 Brooklyn, N. Y.	WHK 1390 Cleveland, Ohio.	WJEF 1210 Hagerstown, Md.
WGAL 1310 Lancaster, Pa. 8-9:30 a.m., EST.	WHN 1011 New York City.	WJJD 1130 Chicago, Ill. 6 a.m.-8:30 p.m., CST.
WGAR 1450 Cleveland, Ohio. 7 a.m.-1 a.m., EST.	WHO 1000 Des Moines, Iowa.	WJKS 1360 Gary, Ind. 10:30-11:45 a.m.; 1-6:15 p.m.; 8-11 p.m., CST.
WGBB 1210 Freeport, N. Y.	WHOM 1450 Jersey City, N. J. 10:30 a.m.-noon; 2-5:45 p.m., 9-30-mid., EST.	WJMS 1420 Ironwood, Mich. 9 a.m.-7:45 p.m., CST.
WGBF 630 Evansville, Ind. 9:30 a.m.-4 p.m.; 6-11 p.m., CST.	WHP 1430 Harrisburg, Pa. 9 a.m.-1 a.m., EST.	WJR 750 Detroit, Mich. 8 a.m.-1 a.m., EST.
WGBI 880 Scranton, Pa. 12:01-2 a.m., EST.	WIAS 1310 Ottumwa, Iowa 10 a.m.-2:30 p.m.; 5-7 p.m., CST.	WJSV 1460 Washington, D. C. 7:30 a.m.-1 a.m., EST.
WGCM 1210 Gulfport, Miss. 11 a.m.-12:30 p.m.; 3-6 p.m., CST.	WIBA 1280 Madison, Wis. 9 a.m.-11:30 p.m., CST.	WJTL 1370 Atlanta, Ga.
WGCP 1250 Newark, N. J. 7:30-10 a.m.; 12:30-6:30 p.m.; 9-mid., EST.	WIBG 930 Glenside, Pa. Daybreak to sunset, EST.	WJW 1210 Mansfield, Ohio. 10:15 a.m.-noon; 6:30-9 p.m., EST.
WGES 1360 Chicago, Ill. 8-10:30 a.m.; 11:45 a.m.-1 p.m.; 6:15-8 p.m.; 11 p.m.-2 a.m., CST.	WIBM 1370 Jackson, Mich. 9 a.m.-2:30 p.m., CST.	WJZ 760 New York City. 8 a.m.-1 a.m., EST.
WGH 1310 Newport News, Va. 10 a.m.-5 p.m.; 6-10 p.m., EST.	WIBO 560 Chicago, Ill. 7:30-10 a.m.; 12:30-7 p.m., CST.	WKAQ 1240 San Juan, P. R.
WGL 1370 Fort Wayne, Ind. 1:30 p.m.-mid., CST.	WIBU 1210 Poyette, Wis. 5:50 Topeka, Kans.	WKAR 1040 East Lansing, Mich. Silent.
WGN 720 Chicago, Ill. 9 a.m.-1:30 a.m., CST.	WIBW 8 a.m.-11 p.m., CST.	WKAJ 1310 Laconia, N. H. 9 a.m.-1 p.m.; 3-8 p.m., EST.
WGR 550 Buffalo, N. Y. 9 a.m.-1 a.m., EST.	WIBX 1200 Utica, N. Y.	WKBB 1310 Joliet, Ill. 2-6 p.m., CST.
WGST 890 Atlanta, Ga. 7 a.m.-mid., EST.	WICC 600 Bridgeport, Conn. 9:30 a.m.-11:30 p.m., EST.	WKBC 1310 Birmingham, Ala.
WGY 790 Schenectady, N. Y. 8 a.m.-1 a.m., EST.	WIL 1200 St. Louis, Mo. 11 a.m.-6 p.m.; 8 p.m.-mid., CST.	WKBF 1400 Indianapolis, Ind. 9:30 a.m.-10:30 p.m., CST.
WHA 940 Madison, Wis. Silent.	WILL 890 Urbana, Ill. 9:30-10:30 a.m., CST.	WKBH 1380 LaCrosse, Wis. 9 a.m.-10 p.m., CST.
WHAD 1120 Milwaukee, Wis. 9:30-10:15 a.m.; 4-5 p.m., CST.	WILM 1420 Wilmington, Del. 9 a.m.-noon; 6-10 p.m., EST.	WKBI 1420 Cicero, Ill. Silent.
WHAM 1150 Rochester, N. Y. 11 a.m.-mid., EST.	WINS 1180 New York City. 8 a.m.-10:15 p.m., EST.	WKBN 570 Youngstown, Ohio. 9 a.m.-mid., EST.
WHAS 820 Louisville, Ky. 7 a.m.-mid., CST.	WIOD 1300 Miami, Fla.	WKBS 1310 Galesburg, Ill.
WHAT 1310 Philadelphia, Pa.	WIP 610 Philadelphia, Pa. 9 a.m.-mid., EST.	WKBV 1500 Connerville, Ind. Silent.
WHAZ 1300 Troy, N. Y. Silent.	WIS 1010 Columbia, S. C. 10 a.m.-noon; 5:30-11 p.m., EST.	WKBW 1480 Buffalo, N. Y. 9:30 a.m.-11 p.m., EST.
WHB 860 Kansas City, Mo. 6 a.m.-6:30 p.m., CST.	WISN 1120 Milwaukee, Wis. 8:30 a.m.-4 p.m.; 5 p.m.-mid., CST.	WKBZ 1500 Ludington, Mich. Silent.
WHBC 1260 Canton, Ohio. 2:15-3 p.m., EST.	WJAC 1310 Johnstown, Pa. 4:30-6:15 p.m., EST.	WKFI 1210 Greenville, Miss.
WHBD 1370 Mt. Orab, Ohio. 7-11 a.m.; noon-5 p.m.; 6-9 p.m., EST.	WJAG 1060 Norfolk, Neb. 10:15 a.m.-3:30 p.m., CST.	WKJC 1200 Lancaster, Pa. Occasional church services.
WHBF 1210 Rock Island, Ill. Silent.	WJAK 1310 Elkhart, Ind. 4:30 p.m., mid., CST.	WKRC 650 Cincinnati, Ohio. 6:45 a.m.-mid., EST.
WHBL 1410 Sheboygan, Wis. 9-10 a.m., CST.	WJAR 890 Providence, R. I. 11 a.m.-mid., EST.	WKY 900 Oklahoma City, Okla. 8 a.m.-11 p.m., CST.
WHBQ 1370 Memphis, Tenn. 10:30 a.m.-9 p.m., CST.	WJAS 1290 Pittsburgh, Pa. 9 a.m.-11:30 p.m., EST.	WKZO 590 Kalamazoo, Mich. 9 a.m.-8:15 p.m., CST.
WHBU 1310 Anderson, Ind. 8:15 a.m.-9 p.m., CST.	WJAX 900 Jacksonville, Fla. 9:15-10:15 a.m., EST.	WLAC 1470 Nashville, Tenn. 7 a.m.-11 p.m., CST.
WHBY 1200 Green Bay, Wis. 10 a.m.-9 p.m., CST.	WJAY 610 Cleveland, Ohio.	WLAP 1200 Louisville, Ky. 8 a.m.-11 p.m., CST.
WHDF 1370 Calumet, Mich. 10:30 a.m.-3 p.m.; 5-8:15 p.m., CST.	WJBC 1200 LaSalle, Ill. 9:45-10:45 a.m., CST.	WLB 1250 Minneapolis, Minn. Silent.
WHDH 830 Boston, Mass.	WJBI 1210 Red Bank, N. J. Silent.	WLBC 1310 Muncie, Ind. 7 a.m.-4:30 p.m., CST.
WHDL 1420 Tupper Lake, N. Y. 11:15 a.m.-2:15 p.m., EST.	WJBL 1370 Detroit, Mich. 7 a.m.-11 p.m., EST.	WLBK 1420 Kansas City, Kans. 9 a.m.-10 p.m., CST.
WHEB 740 Portsmouth, N. H. 10 a.m.-noon; 2-5 p.m., EST.	WJBO 1420 New Orleans, La.	WLBL 900 Stevens Point, Wis. Silent.
WHEC 1430 Rochester, N. Y. 8 a.m.-mid., EST.	WJBU 1210 Lewisburg, Pa. 8 a.m.-1 p.m., EST.	WLBW 1260 Oil City, Pa. 10 a.m.-1 a.m., EST.
WHEF 1500 Kosciusko, Miss.	WJBW 1200 New Orleans, La. 8-10 a.m.; 1-5 p.m.; 9 p.m.-mid., CST.	WLBZ 620 Bangor, Maine.
WHET 1210 Troy, Ala. 9 a.m.-noon; 2-4 p.m., CST.	WJBY 1210 Gadsden, Ala.	WLEY 1370 Lexington, Mass. 12:30-1:30 p.m., EST.

WLVA 1370 Lynchburg, Va. 11 a.m.-3 p.m., EST.	WOBV 580 Charleston, W. Va. 3-7:30 p.m., EST.	WRAX 1020 Philadelphia, Pa. 8 a.m.-local sunset, EST.
WLW 700 Cincinnati, Ohio. 8 a.m.-12:30 a.m., EST.	WOC 1000 Davenport, Iowa. 9 a.m.-11 p.m., CST.	WRBL 1200 Columbus, Ga.
WLWL 1100 New York City.	WOCL 1210 Jamestown, N. Y. 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. 9 a.m.-mid., EST.	WODX 1410 Mobile, Ala. 10 a.m.-9 p.m., CST.	WRDO 1370 Augusta, Maine. 6:10 p.m., EST.
WMAQ 670 Chicago, Ill. 9 a.m.-11 p.m.; mid-1 a.m., CST.	WOI 640 Ames, Iowa. Silent.	WRDW 1500 Augusta, Ga.
WMAS 1420 Springfield, Mass.	WOKO 1430 Albany, N. Y. 9 a.m.-1 a.m., EST.	WREC 600 Memphis, Tenn.
WMAZ 1180 Macon, Ga. 10 a.m.-3:30 p.m., EST.	WOL 1310 Washington, D. C. 10 a.m.-3 p.m., EST.	WREN 1220 Lawrence, Kans. 7 a.m.-mid., CST.
WMBC 1420 Detroit, Mich. 10:30 a.m.-mid., EST.	WOMT 1210 Manitowoc, Wis. Silent.	WRHM 1250 Minneapolis, Minn. 9:30 a.m.-3 p.m.; 4-7 p.m.; 8 p.m.-1 a.m., CST.
WMBD 1440 Peoria, Ill. 8 a.m.-noon; 1:30-3:30 p.m.; 8:30-mid., CST.	WOOD 1270 Grand Rapids, Mich. 9 a.m.-11 p.m., CST.	WRJN 1370 Racine, Wis. 9 a.m.-10:30 p.m., CST.
WMBG 1210 Richmond, Va. Silent.	WOPI 1500 Bristol, Tenn. 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. 7-8 a.m.; 10 a.m.-1 p.m.; 7-9 p.m.; 11 p.m.-mid., CST.	WROL 1310 Knoxville, Tenn. 4-9 p.m., CST.
WMBI 1080 Chicago, Ill. 4-5 p.m., CST.	WOR 710 Newark, N. J. 6:45 a.m.-mid., EST.	WRR 1280 Dallas, Texas 7 a.m.-11 p.m., CST.
WMBO 1310 Auburn, N. Y. 10:45-11:30 a.m.; 2-9 p.m., EST.	WORC 1200 Worcester, Mass. 9 a.m.-11 p.m., EST.	WRUF 830 Gainesville, Fla. 9 a.m.-8:15 p.m., EST.
WMBQ 1500 Brooklyn, N. Y.	WORK 1000 York, Pa. 10:25 a.m.-local sunset, EST.	WRVA 1110 Richmond, Va. 10 a.m.-11:15 p.m., EST.
WMBR 1370 Tampa, Fla. 6:45 a.m.-1 p.m., EST.	WOS 630 Jefferson City, Mo.	WSAI 1310 Cincinnati, Ohio. 12:30-11 p.m., EST.
WMC 780 Memphis, Tenn. 8 a.m.-11 p.m., CST.	WOV 1100 New York City.	WSAJ 1210 Grove City, Pa. 4:30-5 p.m., EST.
WMCA 570 New York City. 9 a.m.-2 a.m., EST.	WOW 590 Omaha, Neb. 7:30-8:30 a.m.; 9-11 a.m.; 12:30- 6 p.m.; 7-11:30 p.m., CST.	WSAN 1440 Allentown, Pa.
WMIL 1500 Brooklyn, N. Y. 9 a.m.-2:30 a.m., EST.	WOWO 1160 Fort Wayne, Ind. 7:30 a.m.-7:45 p.m.; 9:15 p.m.- mid., CST.	WSAR 1450 Fall River, Mass. Silent.
WMMN 890 Fairmont, W. Va. 10 a.m.-9 p.m., EST.	WPAD 1420 Paducah, Ky. 7-9 a.m.; 10 a.m.-2 p.m.; 3- 10:30 p.m., CST.	WSAZ 580 Huntington, W. Va. 7:30 p.m.-1 a.m., EST.
WMPA 1500 Lapeer, Mich. 10 a.m.-2 p.m.; 3:30-6 p.m.; 7:30-11 p.m., EST.	WPAP 1210 New York City.	WSB 740 Atlanta, Ga. 6:55 a.m.-11:30 p.m., EST.
WMRJ 1210 Jamaica, N. Y. 9 p.m.-mid., EST.	WPAW 1010 Providence, R. I.	WSBC 1210 Chicago, Ill.
WMSG 1350 New York City. Silent.	WPCC 560 Chicago, Ill. 10 a.m.-12:30 p.m.; 7 p.m.-mid., CST.	WSBT 1230 South Bend, Ind.
WMT 600 Waterloo, Iowa. 7 a.m.-11 p.m., CST.	WPCH 810 New York City. 8 a.m.-7:30 p.m., EST.	WSEN 1210 Columbus, Ohio. 10 a.m.-11 p.m., EST.
WNAC 1230 Boston, Mass. 8 a.m.-1 a.m., EST.	WPEN 1500 Philadelphia, Pa. 7:30 a.m.-10:30 p.m., EST.	WSFA 1410 Montgomery, Ala. 7:30 a.m.-local sunset; 9-11:30 p.m., CST.
WNAD 1010 Norman, Okla. Silent.	WPFB 1370 Hattiesburg, Miss.	WSIX 1210 Springfield, Tenn.
WNAX 570 Yankton, S. D. 8 a.m.-mid., CST.	WPG 1100 Atlantic City, N. J. 9 a.m.-3:15 p.m.; 6-8 p.m.; 9:15 p.m.-1 a.m., EST.	WSJ 1310 Winston-Salem, N. C. 8 a.m.-mid., EST.
WNBF 1500 Binghamton, N. Y. 11 a.m.-noon; 6-9 p.m., EST.	WPHR 1200 Petersburg, Va. 10:45 a.m.-1:30 p.m.; 5-9 p.m., EST.	WSM 650 Nashville, Tenn. 9:30 a.m.-11 p.m., CST.
WNBH 1310 New Bedford, Mass. 10 a.m.-10:15 p.m., EST.	WPRO 780 Norfolk, Va.	WSMB 1320 New Orleans, La. 7 a.m.-mid., CST.
WNBO 1200 Silverhaven, Pa. 9 a.m.-noon; 3-6 p.m.; 9 p.m.- mid., EST.	WPSC 1230 State College, Pa. 10:55 a.m.-12:10 p.m., EST.	WSMK 1380 Dayton, Ohio. 8 a.m.-mid., EST.
WNBR 1430 Memphis, Tenn. 9:30 a.m.-1 p.m.; 5-9 p.m., CST.	WPTF 680 Raleigh, N. C. 10:30 a.m.-9:15 p.m., EST.	WSOC 1210 Gastonia, N. C. 9:30 a.m.-9:30 p.m., EST.
WNBW 1200 Carbondale, Pa.	WQAM 560 Miami, Fla. 8 a.m.-mid., EST.	WSPA 1420 Spartanburg, S. C. 7:30 a.m.-10 p.m., EST.
WNBX 1200 Springfield, Vt. Silent.	WQAN 880 Scranton, Pa. Silent.	WSPD 1340 Toledo, Ohio. 8 a.m.-mid., EST.
WNBZ 1290 Saranac Lake, N. Y.	WQAO 1010 New York City.	WSUI 880 Iowa City, Iowa. 6-7 p.m.; 9:15-9:45 p.m., CST.
WNJ 1450 Newark, N. J. 7:45-10:30 a.m.; 7:30-9:30 p.m., EST.	WQBC 1360 Vicksburg, Miss. 10 a.m.-9 p.m., CST.	WSUN 620 St. Petersburg, Fla. 8 a.m.-mid., EST.
WNOX 560 Knoxville, Tenn. 9 a.m.-11 p.m., CST.	WQDM 1370 St. Albans, Vt.	WSVS 1370 Buffalo, N. Y.
WNYC 570 New York City. Silent.	WQDX 1210 Thomasville, Ga.	WSYB 1500 Rutland, Vt. 10-11 a.m., EST.
WOAI 1190 San Antonio, Texas. 11 a.m.-1:30 p.m.; 6:15-9:15 p.m., CST.	WRAC 1370 Williamsport, Pa. 10:30 a.m.-noon; 4-5 p.m.; 7-15-10:30 p.m., EST.	WSYR 570 Syracuse, N. Y. 11 a.m.-10 p.m., EST.
WOAX 1280 Trenton, N. J. 12:30-3 p.m.; 5-8 p.m.; 9 p.m.- mid., EST.	WRAM 1370 Wilmington, N. C. 10 a.m.-noon; 7-9 p.m., EST.	WTAD 1440 Quincy, Ill. Noon-1:30 p.m.; 3:30-8:30 p.m., CST.
	WRAP 1310 Reading, Pa.	WTAG 580 Worcester, Mass. 10:45 a.m.-11:15 p.m., EST.
		WTAM 1070 Cleveland, Ohio. 6:59 a.m.-1 a.m., EST.
		WTAQ 1330 Eau Claire, Wis. 8 a.m.-6 p.m., CST.
		WTAR 780 Norfolk, Va. 8 a.m.-mid., EST.
		WTAW 1120 College Station, Texas.

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 1300 Torreon, Mex.
12:30-3 p.m.; 5-8 p.m., EST.	24 hours daily.	XETC 1080 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.	XEFZ 1370 Coyacan, Mex.	XEV 1000 Puebla, Mex.
WTOC 1260 Savannah, Ga.	8-10 p.m., CST.	XEW 910 Mexico City, Mex.
8 a.m.-mid., EST.	XEG 1070 Mexico City, Mex.	XEX 1210 Mexico City, Mex.
WTSL 1310 Laurel, Miss.	XEH 1132 Monterrey, Mex.	XEY 1000 Merida, Mex.
WWAE 1200 Hammond, Ind.	10 a.m.-12:30 p.m., CST.	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 Saltito, 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	
ALGERIA, Africa (See also Tunis) (F) Zone 26			
Constantine			
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 kcs.?) 200 w.
ARGENTINA, South America (LOA-LVZ) Zone 18			
Buenos Aires			
	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 kcs.?)
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. (199507)
LSN	20.680	14.50	Phones Europe after 10:30 p.m.

City-Call	Megs.	Meters	
Perth			
LSK	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 kcs.?)
AUSTRALIA, Oceania (VHA-VMZ) Zones 42-45-46			
Melbourne			
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	6.548	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.
Perth			
VK6AG	7.195	41.67	5-11:30 p.m., EST.
VK6AG	15.000	19.99	
Sydney			
VK2ME	7.940	37.76	Tests 3-7 a.m., EST. with GBX (7980 kcs.?)
VK2HL	9.230	32.48	
VK2ME	9.590	31.26	Amalgamated Wireless, Ltd., 47 York St., Sundays 1-3 a.m., 5-9 a.m., 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	
AUSTRIA, Europe (VOA-UOZ) Zone 28			
Vienna (Wien)			
.....	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	Oesterr Radioverkehrs A. G., Wed., Thurs 6-9 a.m. EST. 250 w.
BELGIUM, Europe (ONA-OTZ) Zone 26			
Brussels			
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.
BERMUDA, North America (VPA-VSZ, ZBA-ZJZ) Zone 18			
Hamilton			
VRT-ZFA	5.045	59.42	Phones WNB - GMBJ nights.
.....	9.500	31.56	
VRT-ZFB	10.060	29.80	Phones WNB daytime.
BRAZIL, South America (PPA-PYZ) Zones 18-20			
Porto Alegre			
PIAG	8.450	35.48	8:30-9 a.m., EST.
Rio de Janeiro			
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?)
BRITISH GUIANA, South America (VPA-VSZ, ZBA-ZJZ) Zone 18			
Georgetown			
VRY	6.840	43.83	Wed., 7:15-9:15 p.m., EST., Sun. 5:45 p.m. (672h?)
BRITISH MALAYA, Asia (VPA-VSZ, ZBA-ZJZ) Zone 40			
Johore Baru			
VS3AB	7.055	42.50	
CANARY ISLANDS, Africa (EAA-EHZ) Zone 24			
Tenerife			
EAR58	7.207	41.60	Sat.-Sun. 4:30-6 p.m., EST., 50 w.
CHILE, South America (CAA-CEZ) Zone 16			
Santiago			
CEC	10.664	28.12	Tests HJY evenings, irreg.
CEC	19.673	15.24	Phones LSR-HJY 11 a.m., 4 p.m., EST.
CHINA, Asia (XGA-XUZ) Zone 42			
Hongkong			
.....	9.373	31.97	
.....	10.250	29.25	
Kiangsu			
NCTE	5.000	59.96	(XGTE?) Chinese Triode Electric Co., Mon. and Fri.
COLOMBIA, South America (HJA-HKZ) Zone 16			
Barranquilla			
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 Amortequi P., Apartado 765, daily 8-10 p.m., ex. Mon., Wed., Fri. (6138? 6160? 6246? 6250?) 50 w.

City-Call	Megs.	Meters	
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.
Bogota			
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.
HKN	7.140	41.99	
HKF	7.143	41.95	
HKI	7.402	40.50	
HKT	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. (8692?)
HJY	18.444	16.25	All American Cables Tests CEC Santiago daily 6 p.m. Phones CEC-EST 11 a.m., 4 p.m.
HJY	19.856	30.20	Phone OCI evenings irreg. All-American Cables.
Calif			
HKS	6.378	47.00	Sres. Riva Hnos Abt. 10 p.m.
HKL	7.122	42.10	Sres. Riva Hnos (7295?)
Manizales			
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.
Medellin			
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	
Tunja			
HKB	5.879	51.00	Abt. 10 p.m., EST. irreg.
COSTA RICA, North America (TIA-TIZ) Zone 14			
Electra Cartago			
TIRA	6.080	49.31	Compania Radiografica Internacional de Costa Rica.
TIRA	9.590	31.26	
Heredia			
TIANRH	9.670	31.00	Amando Cespedes Marin. Daily, ex. Sat.-Sun., 10-11 p.m. (9734?)
TIANRH	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.
TIANRH	15.066	19.90	Sat. 11-noon, 4-5 p.m., 10-11 p.m., Sun., Mon. 11-noon, 4-5 p.m.
San Jose			
TITR	11.790	25.43	Margarita M. de Girtou.
CUBA, North America (CIA-CMZ) Zone 16			
Cienfuegos			
CM6DW	7.300	41.07	
Havana			
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	
Matanzas			
CM5RY	7.312	41.00	Sat. 10:45-11:30 p.m., EST.
Tuinucu			
CM6XJ	15.000	19.99	
CZECHO-SLOVAKIA, Europe (OKA-OKZ) Zone 28			
Podebrady			
OKI	21.000	14.28	
Prague			
OK1MPI	5.169	58.00	
OK1MPT	5.172	58.00	Tue.-Fri. 1-3:30 p.m., 8:30-10:30 p.m., EST.
DENMARK, Europe (OUA-OZZ) Zone 28			
Copenhagen			
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	
Lyngby			
OXY	15.300	19.53	
Skamlebak			
OXY	9.520	31.49	Direction Generale des Postes et des Telegraph. Copenhagen. Relays Copenhagen 2-6:30 p.m., EST. 500 w.
DOMINICAN REPUBLIC North America (HIA-HIZ) Zone 16			
Santo Domingo			
HIX	4.610	65.04	
DUTCH EAST INDIES, Oceania (UIA-UKZ-PAK-POZ) Zones 40-44			
Makassar			
PK-6K	11.720	25.58	6:40-9:40 EST.
PK6KZ	11.993	25.07	
Malabar			
PLF	17.640	16.99	
Tandjong Priok			
.....	6.055	49.60	
.....	9.579	31.29	
.....	15.336	19.55	
ECUADOR, South America (HCA-HCZ) Zone 16			
Guayaquil			
HC2JM	8.570	34.98	
Quito			
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.
Riobamba			
.....	6.618	45.31	Thurs., 9-11 p.m., EST.
.....	(PRADO?)		
.....	7.530	39.82	Thurs., 9-11 p.m., EST.
.....	(7538?)		
EGYPT, Africa (STA-SUZ) Zone 30			
Cairo			
SUS	9.110	32.91	Egypt High Power Trans. Radio to England.
FIJI ISLANDS, Oceania (VPA-VSZ-ZBA-ZJZ) Zone 50			
Suva			
VPD	7.890	38.00	
VPD	14.420	20.80	
FRANCE, Europe (F) Zone 26			
Agen			
.....	9.750	30.75	Tues., Fri., 3-4:15 p.m., EST.
Lyons			
YR	7.460	40.19	Daily ex. Sun., 10:30 p.m., 1:30 a.m., EST.
Nancy			
.....	19.350	15.50	4-5 p.m., EST.
Paris			
.....	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-IQO	12.150	24.68	St. Assise.

City-Call	Megs.	Meters	
FTN	12.250	24.48	St. Assise, Tests U.S.A. days, irreg. Works Buenos Aires. Indo-China, Java, 9 a.m.-1 p.m.
F8BZ	13.638	22.00	Telephone to ships.
FW4	12.700	23.61	Daily noon-2 p.m., EST.
FYA	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.			
F8BZ	15.456	19.40	Phones to ships.
FTK	15.860	18.90	Telephony, St. Assise
Phones PZS 9-10 a.m., EST.			
FRO-FRE	18.240	16.44	St. Assise.
FTE	18.240	16.44	St. Assise, Phones FZR 5-9 a.m., EST.
FTM	19.282	15.55	St. Assise, 10 a.m.-noon, EST. (19344?)
FRO-FRE	19.400	15.45	St. Assise.
FTD	19.830	15.12	St. Assise.
Strasbourg			
.....	6.280	47.74	
Toulouse			
.....	6.120	48.99	Sundays 2:30-4 p.m., EST.
FRENCH INDO-CHINA, Asia (F) Zone 40			
Saigon (Chi-Hoa)			
F3ICD	6.131	48.90	106 Boulevard Charner, Chi-Hoa 6:30-10:30 a.m., daily, EST. (6120?)
F3ICD	11.776	25.46	Sats. 10:30 a.m.-12:30 p.m., EST. 12 kw.
FZG	12.000	24.09	Time sigs. 2-2:05 p.m., EST. (12010?)
FZG	13.010	23.04	
F3ICD	15.750	19.03	
FZR	16.200	18.51	
FZS	18.310	16.38	Suns. 1-3 p.m., EST.
FZA	18.365	16.32	
FSR	20.680	14.50	Phones.
GERMANY, Europe (D) Zone 28			
Berlin (Konigswusterhausen)			
DJC	6.020	49.80	Deutsche Reichspost.
.....	9.500	31.56	8 a.m.-7:30 p.m., EST.
DJA	9.560	31.36	Deutsche Reichspost a.m.-7:30 p.m.
DHI	10.054	29.82	
DJD	11.760	25.50	Deutsche Reichspost.
DJB	15.200	19.72	Deutsche Reichspost, Mon. 10-11 p.m.
.....	15.300	19.60	7 a.m., EST.
DJE	17.760	16.88	Deutsche Reichspost.
.....	42.530	7.05	Telefunken Co. Tues., Thurs. 11:30 a.m.-1:30 p.m., EST.
Colthen			
D4AFF	6.875	43.60	Sun. 4-6 a.m., Tues. and Fri. noon-2 p.m.
Doerberitz			
DOA	3.620	82.82	
DOA	4.430	67.68	Mon., Wed., Fri. 6-7 p.m., 2-3 p.m., EST.
DOA	7.230	41.47	
DOA	7.930	37.81	Reichpostzentramt, Berlin, 1-3 p.m.
Eberswalde			
.....	7.410	40.46	Mon., Thurs. 1-2 p.m., EST.
Nauen			
DIQ	5.144	58.33	(9642?) (10285?)
DGK	6.675	44.91	Tests WEJ 9 p.m., EST.
DIZ	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.
DHC	10.160	29.51	Phones ships daily (11.435?)
DFA	19.240	15.58	Phones XDA 10 a.m.-2 p.m., irreg.
DIH	19.950	15.03	News in code: English, 6:15 a.m.; French, 8:30 a.m., and 11 a.m.; Sums. French, 8:30 a.m., EST.
DHO	20.028	14.87	Phone LSG 7-11 a.m., irreg.
DWG	20.140	14.88	Tests 10 a.m.-3 p.m., EST

City-Call	Megs.	Meters		City-Call	Megs.	Meters	
Nordeich(?)							
DAN	11.340	26.44	Deutsche Seewarte, Hamburg Time sigs. 7 a.m. and 7 p.m., EST.	Hilversum			
Norden							
DAN	8.328	36.00	Phones ships 2-4 a.m., 3-9 a.m.	PCJ	9.590	31.26	N. V. Phillips Radio, Ex-per. Station (Eindhoven?)
DAN	12.490	24.00	Phones ships noon-3 p.m., 4-9 a.m.	PCJ	15.220	19.71	N. V. Phillips Radio, Ex-per. Sta.
DAN	8.300	18.06	Tests with ships 9 a.m.-noon.	Huizen			
Zeesen							
DJB	15.196	19.73	Mon., Fri., Sat., irreg. Sun. 8 a.m.-4 p.m.	PHI	17.775	16.87	N. V. Phillips Radio, Under constn. Transmission for E. Indies.
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.	PHO	17.775	16.87	Daily ex. Tues. 7-9 a.m. EST.
GREAT BRITAIN, Europe (G-M) Zone 26							
Bodmin							
GBK	9.250	32.41	6 a.m.; 6 p.m.	Kootwijk			
GBK	11.490	26.10		.....	7.758	38.65	Code usually (7628?)
GBK	18.100	16.56	6 a.m., 2 p.m.	PCK	7.770	38.59	9 a.m.-7 p.m., EST.
GBJ	18.620	16.10	Telephones Montreal.	PDV	7.830	38.29	After 9 a.m.
Chelmsford							
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.	PDK	10.410	28.80	
G5SW	25.960	11.55	Experimental.	PCP	10.800	27.76	
London							
G2A	8.570	33.70	Phones to ships.	PCL	16.300	18.39	Works with Bandoeng from 7 a.m. EST.
Rugby							
GBC	4.975	60.26	Phones ships irreg.	PCV	17.830	16.82	With Java 6-9 a.m. Sats. 9:40 a.m. (17836?)
GBS	6.989	42.90	6 a.m., 6 p.m. (8995?)	PCK	18.400	16.29	
GBS	9.022	33.25	6 a.m., 6 p.m. (9010?)	PDM	18.600	16.12	
GBS	9.200	32.50	Transatlantic phone.	HONDURAS, Central America (HRA-HRZ) Zone 14			
GBC	9.310	32.30	Sun. 2:30-5 p.m., EST.	Tegucigalpa			
GBW	8.790	30.63		HRB	6.005	49.96	Daily ex. Sun. 7-11 p.m. (?) Mon., Wed., Fri., Sat. 5-6 p.m., 9-mid. (6170?) (6000?) 2500 w.
GCW	8.788	30.60	Phones America evenings.	HUNGARY, Europe (HAA-HAZ) Zone 28			
GBU	9.942	30.15	5:11 p.m., EST.	Budapest			
GBX	10.390	28.85		.....	7.220	41.53	Budapest Technical School, M.R.C. Tues., Thurs., Sat. 2:30-3:10 a.m., EST.
GBX	12.190	27.76		Szekesfehervar			
GBS	12.190	24.60	Transatlantic phone to Deal, N. J., 2 p.m., 7 p.m. (12150?) (12250?)	HAT	9.125	32.86	
GBX	12.190	24.60	To VK2ME-VLK 4 a.m.-9 a.m.	INDIA, Asia (VTA-VWZ) Zone 37-38			
GBU	12.290	24.39	To WMI 2 p.m.-7 p.m.	Bombay			
GBC	12.780	23.46		VVD	6.110	49.07	Mon., Wed., Fri. 12:30-1:15 p.m., EST.
GBB-GBC	13.591	22.06	Phones CGA and ships p.m.	Calcutta			
GBW	14.450	20.75	Phones WNC 6 a.m., 6 p.m. Radio Section, G. P. O. London (14480?)	VUC	11.870	25.27	Indian State Broadcast. Service, 9:45-10:45 p.m., 8-9 a.m., EST.
GBC	16.150	18.55	VK2ME 4-11 p.m., EST. (16164?)	ITALY, Europe (I) Zone 28			
GBC	17.080	17.55		Coltana			
GBW	18.124	16.54	WNC 6 a.m.-2 p.m.	IAC	12.760	23.50	Testing irreg.
GBS	18.310	16.38	G. P. O., London, Tele-phones N. Y. 6 a.m.-2 p.m.	Rome			
GBU	18.620	16.10	WMI 6 a.m.-2 p.m., EST.	I3RO	3.750	79.95	Daily 3-5 p.m., EST.
GBA	20.400	14.70	Phones LSN and ships irreg.	I2RO	6.220	48.20	9000 w.
Sonning-on-Thames							
G2NM	3.583	83.68	Sun. 5 a.m., EST.	IIAX	6.667	45.00	
G2NM	14.310	20.95	Sun. 1:30 p.m., EST.	IMA	6.900	43.45	Daily noon-2 p.m., EST.
GUATAMALA, Central America (TGA-TGZ) Zone 14							
Guatemala City							
TGW	6.480	46.27	9-11 p.m., EST. (6663?) (6678?) 100 w.	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.?)
TGX	8.950	33.50	Sr. Miguel Angel Mejicano Norvales, 45 11th Ave., N. Sats. 10 p.m.-mid.	Turin			
TGGA	9.370	32.00		.....	3.750	79.95	
TGX	9.516	31.52		JAPAN, Asia (J) Zone 44			
TGW	10.800	27.76	(10708?)	Kemikawa-Cho			
TGCA	13.043	22.98	10 p.m.-mid., EST.	JIAA	7.876	38.07	Tests KEL irreg. (9862?)
HOLLAND, Europe (PAA-PIZ) Zone 26							
Amsterdam							
PHI	17.760	16.88	(Huizen) Mon. 3-6 a.m., Wed., Thurs., Fri. 2-6 p.m., EST.	JIAA	13.074	22.93	Exp. tests irreg.
Eindhoven							
PCJ	9.590	31.26	(Hilversum) Wed. 2-3 p.m., Thurs. 9 a.m.-5 p.m., Fri., 2-9 p.m., EST.	JIAA	15.760	19.02	Exp. early a.m. (15120?)
Hague							
PCM	6.430	46.63	Sun. 3-6 p.m. Mon., Sat. 4-7 p.m.	Tokyo			
PBF5	6.438	46.58		JJAA	7.890	38.00	Testing
				JJAA	8.100	37.01	Tests 5-8 a.m., EST. (Kemikawa?)
				.....	12.090	24.80	5-8 a.m., EST.
				JJAA	15.760	19.02	Beam transm. to 10 a.m.
				JJAA	17.380	17.25	
				JAVA, Oceania (PKK-POZ, UIA-UKZ) Zone 40			
				Bandoeng			
				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.
				PLE	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			
PKTAA	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 kes.?) (6100 kes.?) (6134 kes.?)
KONGO, Africa (ONA-OTZ) Zone 28			
Leopoldsville			
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			
FIUI	5.689	52.70	Sat., Sun. 1-3 p.m. Other days 9:15-11:15 a.m., EST. (5552 kes.?)
	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			
Funchal			
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. (11763 kes.?)
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 kes.?) (5857 kes.?)
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 kes.?)
MOROCCA, Africa (CNA-CNZ) Zone 26			
Casablanca			
CN5MC	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 kes.?)
F8MC	6.875	43.61	(CN8MC?) (10710 kes.?)
Rabat			
	6.877	43.60	
	9.290	32.27	Radio Maroc 6 k.w. Sun. 3-5 p.m., weekdays, irreg.
CNR	12.820	23.35	Phones St. Assise 5 a.m.-8 a.m., Suns. 7:30-9 a.m., Daily 5-7 a.m. (12600 kes.?) 2500 w.
NEW ZEALAND, Oceania (ZKA-ZMZ) Zone 19			
Christchurch			
ZL3ZC	6.000	49.97	Tues., Thurs., Fri., 10 p.m.-mid. EST.
Wellington			
ZL2XX	4.770	62.86	(4776?)
ZL2ZX	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. (10980 kes.?)
ZLW	12.286	24.40	Phones VK2ME 3-8 a.m., EST.
ZLW	18.340	16.35	Phones VK2ME irreg.
NORWAY, Europe (LAA-LNZ) Zone 28			
Bergen			
LGN	9.600	31.23	
PERU, South America (OAA-OCZ) Zone 16			
La Punta			
OBÉ	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-CVZ) Zone 26			
Lisbon			
CT1AA	6.990	42.89	Fri. 4-6 p.m. EST. (6995 kes.?) 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			
YOI?	6.000	49.97	300 w.
	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 kes.?)
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	Megs.	Meters	City-Call	Megs.	Meters
EAR25	6.120	48.99	KFN	6.000	49.97
(kes.?)			a.m., EST.		Tues., Thurs., Sat. 8-9
EAJ1	15.760	19.02	RW59	6.000	49.97
Madrid			20 kw.		Union Centrale des Syndi- cates Professionnels. Thurs., Sun. 4-5 p.m., EST.
EAR110	6.976	43.00	REN	6.430	46.63
Fri. 7-8 p.m., EST.			EST.		Relays Moscow 1-6 p.m.
EAR125	7.020	42.71	RFN	6.560	45.70
EAM	9.772	30.68	RW72	6.610	45.36
EAQ	9.862	30.10	REN	6.611	45.35
9 p.m., Sat. 1-3 p.m. (7995?) (9875 kes.?) (9890 kes.?)			RW50	11.923	25.16
EAJ7	10.090	29.70	20 kw.		Comm. du Peuple PTT.
6:30 p.m., irreg.			RW61	51.724	5.79
EAQ	19.684	15.23	de Union. 750 w.		Institut Electrotechnique
LSY 7-11 a.m. irreg. (19720 kes.?)			Odessa		
SWITZERLAND, Europe (VPA-VSZ, ZBA-ZJZ) Zone 40			RW69	1.900	157.80
Singapore			Peredivjka		
VSIAB	7.195	41.67	RW65	3.560	84.22
11 a.m., EST. (7260 kes.?)			w.		Krestianskaia Gazeta. 20
SUMATRA, Asia (PKO-POZ, ULA-UKZ) Zone 40			Petropavlovsk		
Medan			RW71	5.000	59.96
PKP	10.410	28.80	Tomsk		
a.m., 8 a.m.			RW19	8.111	36.96
Palembang			VATICAN CITY (Italy), Europe (HVA-HVZ) Zone 28		
PK4PA	59.964	5.00	HVJ	5.968	50.26
SWEDEN, Europe (SAA-SMZ) Zone 28					Daily 2 p.m., news in several languages and scientific information. Suns. and holidays at 5 a.m. (5965 kes.?) 10 kw.
Kalsborg			HVJ	14.850	20.19
SAS	11.760	25.50			Daily 5-5:15 a.m.; Sun., Tues. 5 a.m., EST.
Motala			HVJ	15.120	19.83
.....	3.030	98.95			5-5:15 a.m., EST. (15112 kes.?) 10 kw.
EST.			VENEZUELA, South America (YVA-YVZ) Zone 19		
SBG	6.065	49.43	Caracas		
SAJ	6.065	49.14	YV2B	6.000	49.97
p.m., EST.			Mon. (6061 kes.?)		7:45-11 p.m., daily ex.
.....	6.120	48.99	Maracaibo		
11 a.m.-4:30 p.m. Holidays, 5 a.m.-5 p.m., EST.			YV11BMO	6.125	48.95
SWITZERLAND, Europe (HBA-HBZ) Zone 28			Maracay		
Berne			YVQ	11.680	25.67
HB90C	9.130	32.84			Tests Germany 5-7 p.m., EST.
(9375 kes.?)			YVQ	18.296	16.39
Geneva					Tests abt. 10 a.m., irreg.
HBP	7.790	38.49	Valencia		
League of Nations.			YV4BV	11.700	25.62
HBJ	14.550	20.60	YUGO-SLAVIA, Europe (UNA-UNZ) Zone 28		
Zurich			Belgrade		
HB9XD	3.488	85.92	.....	10.000	29.98
HB9XD	7.220	41.53			Mon. only 2-3 p.m., EST.
2 p.m., EST. (7229 kes.?)					
HB9XD	9.380	31.96			
TUNIS, Africa (F) Zone 28					
Constantine					
F8KR	3.750	79.95	550 WDEV		Waterbury, Vt., 50 to 500
F8KR	7.005	42.80	570 KVI		Tacoma, Wash., 1000 to 500
UNION OF SOUTH AFRICA (ZSA-ZUZ) Zone 30			580 KMJ		Fresno, Calif., 100 to 500
Durban			630 CNRA		Moncton, N. B., 500 to 700
ZTD	7.400	40.52	635 CKOC		Hamilton, Ont., 500 to 1000
Johannesburg			CKTB		St. Catharines, Ont., 500 to 1000
ZTJ	6.072	49.37	650 WSM		Nashville, Tenn., 5000 to 50000
P. O. Box 4559 (JB?) 5-7 a.m., 9:30-11 a.m., 1-3:30 p.m. (6070 kes.?) (6098 kes.?)			730 CMK		Havana, Cuba, 3150 to 5000
ZTJ	7.329	40.90	750 KGU		Honolulu, Hawaii, 1000 to 2500
9:30 a.m.-2:30 p.m., EST.			760 KXA		Seattle, Wash., 500 to 250
U.S.S.R. (Russia), Europe (RAA-RUZ) Zones 30-50			840 CKGW		Toronto, Ont., 10000 to 5000
Khabarovsk			850 WFL		New Orleans, La., 10000 to 5000
RW15	4.273	70.20	880 CJCB		Sydney, N. S., 50 to 100
Far East Radio Station, Daily 3-9 a.m., EST. 20 kw.			CKVC		Quebec, Que., 50 to 100
RW15	8.570	34.98	890 CMX		Havana, Cuba, 500 to 3000
5-7:30 a.m., EST.			940 WHA		Madison, Wis., 750 to 1000
Leningrad			1030 CMHI		Santa Clara, Cuba, 30 to 200
RW3KAA	8.333	35.98	1080 WBT		Charlotte, N. C., 5000 to 25000
.....	10.510	28.53	1110 KSOO		Sioux Falls, S. D., 2500 to 1000
.....	11.111	26.08	1120 CHGS		Summerside, P. E. I., 500 to 100
Minsk			KRSC		Seattle, Wash., 50 to 100
RW62	6.420	46.70	1150 CMHJ		Cienfuegos, Cuba, 40 to 75
150 w.			CM/H		Ciego de Avila, Cuba, 15 to 50
Moscow			1155 XEA		Guadalajara, Mex., 101 to 500
RW54	4.273	70.18	1180 KOB		Albuquerque, N. M., 20000 to 10000
RW38	5.515	54.38	1185 CMW		Havana, Cuba, 1400 to 1500
RW38	5.614	53.40	1200 WBHS		Hot Springs, Ala., 50 to 100
(5515 kes.?)			WLAP		Louisville, Ky., 250 to 100
REN	6.000	49.97	10-BP		Wingham, Ont., 15 to 25
a.m.-5 p.m., EST.			KFPW		Fort Smith, Ark., 50 to 100
			WGCM		Gulfport, Miss., 1000 to 100

The Summer's Changes

POWER

550 WDEV	Waterbury, Vt., 50 to 500
570 KVI	Tacoma, Wash., 1000 to 500
580 KMJ	Fresno, Calif., 100 to 500
630 CNRA	Moncton, N. B., 500 to 700
635 CKOC	Hamilton, Ont., 500 to 1000
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 WFL	New Orleans, La., 10000 to 5000
880 CJCB	Sydney, N. S., 50 to 100
CKVC	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
CM/H	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	Hot Springs, Ala., 50 to 100
WLAP	Louisville, Ky., 250 to 100
10-BP	Wingham, Ont., 15 to 25
KFPW	Fort Smith, Ark., 50 to 100
WGCM	Gulfport, Miss., 1000 to 100

1240 WKAQ San Juan, P. R., 500 to 1000
 1270 KGCA Decorah, Iowa, 50 to 100
 1310 KRMD Shreveport, La., 50 to 100
 XEI Meridia, 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.
 330 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.
 1400 WCHI Chicago, Ill.
 1500 WLBX Long Island City, N. Y.
 1500 WMBA Newport, R. I.

FREQUENCY

550 WDEV Waterbury, Vt., from 1420
 570 WNYC New York City, from 810
 580 KMJ Fresno, Calif., from 1210
 WDBO Orlando, Fla., from 1120
 750 VOWR St. Johns, N. F., from 675
 1100 WPCW New York City, from 570
 800 KSEI Pocatello, Idaho, from 900
 1055 XES Tampico, Mex., from 890
 1150 CMHJ Cienfuegos, Cuba, from 1125
 CMJH Ciego de Avila, Cuba, from 1017
 1155 XEA Guadajajara, Mex., from 1000
 1185 CMW Havana, Cuba, from 588
 1200 KGVO Missoula, Mont., from 1420
 1210 KFPW Fort Smith, Ark., from 1340
 WGCM Gulfport, Miss., from 590
 1210 WKAQ San Juan, P. R., from 890
 1260 WHBC Canton, Ohio, from 1200
 1310 XEI Morelia, Mex., from 1090
 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 KFBI 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 KGXK 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 WSN 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 KXN Hollywood, Calif. 5000 to 25000

Permit to Change Location

830 WJHD 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 published 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 WJNS. 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 kcys. 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 keys. 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 keys. 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 keys., 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 CPRY 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.

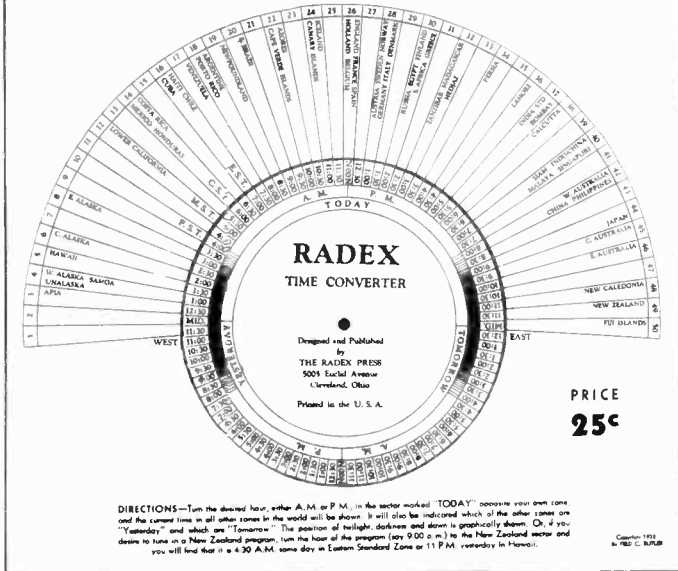
Fred B. Murray, 3512½ Pine Grove Ave., Chicago, Ill., would like to hear from other owners of the Star Raider, 13-tube receivers.

The October Radox

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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