

THE APRIL 1932

RADIO INDEX

WHAT'S ON THE AIR TONIGHT?



25^c

**Girdling the Globe with Two Tube Set
Getting Rid of Radio Noise
New List of World Stations**

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APRIL 1, 1932



RADIO INDEX

REG. U. S. PATENT OFFICE

FRED CLAYTON BUTLER

Editor and Publisher



GETTING RID of RADIO NOISES

by B. Francis Dashiell

STRANGE noises appear from time to time in every radio receiver. Because of the sensitivity of modern sets, and particularly superheterodynes, a higher ratio of noises is to be expected. The more or less normal noise in a receiver—the noise level—is offset by the ability to receive extremely weak signals. But when this level increases because of defects and faults in the set or electric sources without, the noise becomes so excessive that all radio reception is spoiled or impossible.

Radio noises may be given several classifications. First are those sounds which arise from without the receiver and cannot well be controlled; second, the abnormal electrical and mechanical disturbances of the set itself; and, third, the annoying hum caused by alternating current sources and difficulties within the radio set.

Noise, without doubt, is the most discussed of all radio troubles. Service men are called up more frequently to discover and correct noises than for any other kind of defects. And this magazine, through its question columns, receives many communications calling for assistance in the eternal battle against radio noises.

When a receiver commences to sound excessively noisy it is proper to suspect it of something more than its inherent noise level. What, then, is the nature of these noises; what shall be done to locate the trouble; and how is it to be remedied? It is best always to remember that modern radios have a great many

sources of noise trouble, and that while some cases are obvious enough to indicate the cure, there are others so exasperating and stubborn as to call for the services of expert repairmen. However, since we can do no more than brush over the whole subject in a general way, we shall endeavor to explain the noises which are more commonly experienced.

The first duty is an attempt to isolate the trouble for immediate correction. Remove the aerial and turn on the set to full volume on a local station. If the noise persists it is obvious that the source is in the ground or the set. Replace the aerial and remove the ground; if the noise again persists it must therefore be in the set. If the noise stops at the removal of the aerial and ground or



Clara, Lu 'n' Em, entertaining gossipers, daily except Saturday and Sunday, 10:15 a.m. NBC-WJZ

either one, then look for trouble in these essentials. The aerial may be loose and touching some object, or another aerial may have fallen across it. This frequently happens in apartment house conditions. Or the wires may be loosely joined without perfectly soldered connections. The ground may be loose or imperfect. A long and bare ground wire that touches some metallic surface between the point of grounding and the set will give considerable noise.

Noise that persists in the set after the removal tests for aerial and ground is caused by external or internal troubles. The external sources are practically eliminated when no aerial or ground is used and the set is carefully shielded to exclude all electric waves. It is obvious, therefore, that good metallic shielding is necessary to prevent many noises from penetrating the radio coils. A careful examination of all shielding joints and groundings is essential in diagnosing radio troubles.

Noises brought into the receiver from external sources through the aerial and ground may be due to atmospheric conditions such as static and stormy weather, or to what is commonly called "man-made static." All electrical apparatus are a great source of trouble; motors, fans, oil heaters, vacuum cleaners, bells, X-ray and violet ray apparatus (both of which are very annoying), light switches, elevators, automatic refrigerators, loosely held electric lamps, power lines (usually producing hum), street cars, motor cars, and telephone lines, give much grief.

Filters for Power Devices

But these sources can be controlled. The remedy for troublesome motors and sparking brushes is an overhauling and cleaning, and the installation of filter condensers across the offending circuits to absorb the sparks that transmit the static waves. Noise filters for power lines—large condensers with choke coils—may be purchased and easily installed. Some electric induction is hard or impossible to eliminate, but shielded aerial and ground leads can be used with a certain degree of satisfaction.

Radio tubes are primary sources of noise. When they fail or do not fit well in their sockets a popping and clicking

noise is heard, or there is a bedlam of howls and squeals. Test all tubes and replace those that appear defective. Tube prongs may not fit perfectly in the sockets, or the internal wires soldered to the ends of the prongs may be loose and cause open circuits. Internal tube troubles cause many peculiar sounds which cannot be remedied.

Howls and Squeals

Howling is one of the most annoying radio troubles. It sometimes increases steadily after the set is turned on. This is known as microphonic howl and is caused by internal vibration that sets the tubes, generally the detector, into oscillation. Replacing the detector tube with a new one sometimes stops the noise, or the tube may be covered with a "howl arrester." The speaker often sets up this vibration and may require some additional cushioning to stop the microphonic howls. Howling may be induced by electric vibrations from adjacent parts of the circuit and is a more complex matter.

Other howls and squeals come from poor contacts or breaks in circuits leading to grids of tubes. Too low plate voltages such as may be experienced with run-down B batteries or defective eliminators cause howl. Again a too high plate voltage especially on the detector tube plate, will cause howling. All wires in the grid circuits, and in the secondaries of intermediate radio-frequency coils in superheterodynes, and r. f. coils of other sets, must be examined for breaks.

The volume control of a set sometimes becomes noisy. Due to wear or the looseness of its parts this device may need replacing. Grease or dirt in the bearing or on the contact arm will give an easily overlooked source of noise and howl.

Noise accompanying the moving of the tuning dial of the set is due to defective condensers and contacts and connections. Dirt, such as dust particles, between the plates of the variable condenser will cause loud clicks when the condensers are turned. Crooked or warped plates, or faulty connections to

(Continued on page 29)

GIRDLING the GLOBE on TWO TUBES

I CLAIM the championship of the East for DX reception on small receivers. I use a two-tube set which I made, and have received and verified stations from over both seas, Central and South America, and stations located in islands on both the Pacific and Atlantic. Among my best receptions have been 1RO, Rome, Italy, on 680 kcys., heard at 8:20 p.m., EST, and CX-26, Montevideo, Uruguay, heard at 7 p.m. in the evening.

If any of your readers have a better record than mine for a two-tube receiver, or any small set, I should appreciate hearing from them.

On the Pacific coast I have received and confirmed to date exactly 60 stations. These range from 50 watts up and from Kelowna and Vancouver to Tia Juan, in Baja California. Across the Pacific, Japan, Australia, New Zealand and Hawaii have been received and specifically confirmed in nice personal letters from the stations themselves.

Here's How

Here is how to receive these distant stations. All those on the far shores of the Pacific are heard early in the early morning hours here in Eastern United States. Between 4 a.m. and daylight is the best time to try for them, and this is practically the only time that these stations can be heard. Hawaii is one exception; it may be heard as early as 2 a.m., EST. As for Europe, I find they will come in during the evenings here in the East if it is possible to get a clear wave for them. The ideal time to catch them is around 9 p.m. EST. However, to hear Europe at this time it is necessary for the station heard to be giving a test or DX program, as it would then be 2 or 3 a.m. their time. I say that this is the ideal time to hear them because it is then complete darkness between the points of transmission and reception. South America may come in during the evening if you can get a clear wave for them. Reception of early morning programs of the European and South American stations is not so successful, although it can be done.

How George Lilley Does It

Of course, in all DXing the dialer must know exactly what wave he is on, what stations come on the particular waves, and have up-to-date information on these stations. I always have RADEX open in front of me when DXing.

It may help your readers to know a little about my aerial and ground. My aerial is exactly 150 feet long including the lead in. It is 55 feet high and runs north and south. 150 feet seems to be



Walter Winchell, the Gossip of Broadway. Master of Ceremonies on Lucky Strike. 10:00 p.m. EST Tuesdays, Thursdays and Saturdays

plenty long enough for the best of DXing; if it is longer, the set becomes much less selective and hinders the evening reception. Height and insulation of the aerial are much more important factors than the length of it. My ground is made up of as much buried metal, wire, and pipes as I could find. These are all soldered together, taped, and one wire connects them all to my set.

Although my receiver is only two
(Continued on page 30)

STATION KUKU is Broadcasting

The Cheese Hour By SUSIE SEXTON

ALTHOUGH Raymond Knight, director, author, announcer and leading man of Station KUKU's Kut-Ups on the National Broadcasting Company's network has half a dozen college degrees in law, theology and the drama, his most prized possession is the honorary title of Doctor of Sound Effects, conferred on him by acclaim at the behest of radio fans and executives.

Mr. Knight, who is the tallest and most educated man before the microphone today—quite apart from his personal popularity with all classes and conditions of fans—can express any crises in the lives of human beings from Hamlet to Ed Wynn by tearing a Number 16 collar, carefully starched, in the proper direction. By tap-dancing on last season's straw lid, crunching the crown in his fist, or masticating the brim with fury he can imitate anything from the roar of the fast freight to the last gasp of poor, unhappy Camille. And with one package of assorted sandpaper purchased for a dime, it is said, he can depict as much human anguish as Conan Doyle or George Bernard Shaw ever put into thirty-five volumes.

The Big Cheese Himself

Professionally, at least among the KUKU Kut-Ups who make merry in behalf of the Blue Moon Cheese Spread every Saturday afternoon at 5:30, Mr. Knight enunciates as Ambrose J. Weems, the Big Cheese Himself. But he is much more than that to Station KUKU. The staff of that unit which broadcasts under the wings of a cuckoo is that madly hilarious group which includes Mrs. Pennyfeather, the palpitating, saccharine damsel who gives the benefit of her advice—unasked—to “dear perturbed people” everywhere, Dolly Gray, Percival Pother, the Green Monster, Fetlock Soames of Scotland's Back Yard and the Sing-Up-A-Tree-O. These delightfully whimsical merrymakers poke fun with rare art at most of the foibles of humans

including the recipe girls, gasp-and-go sports madmen, London broadcasts, commercial credits, the poets who will recite “Trees” and bedtime couplets no matter what happens, crooners and those good old traditions—the detective yarn and five-and-ten melodrama.

Mr. Knight's active brain is responsible for all of these activities as well as the sound effects. He writes, directs, acts the parts of Eddie McGurk and the Green Monster, announces as Ambrose J. Weems, and sings in the Tree-O for the Kut-Ups as well as being the life of half a dozen other broadcasts, including Raising Junior. For a while he was Bill Borealis of the Cliquot Club Eskimos. His film for Pathe on sound effects used in the studios ran for five weeks at the Palace Theatre in New York.

Like all men with an irrepressible sense of humor and original wit, Mr. Knight himself looks very sad indeed.



Raymond Knight, as Professor Ambrose J. Weems, playing the "Melody in H" and the Cuckoos listen entranced. Following the well-known left to right we have Robert Ambruster, Jack Arthur, the Big Cheese, Eustace Wyatt, Mary McCoy and Adeline Thomason. The KUKU program is broadcast each Saturday at 5:30 p.m. EST over the NBC-WFAF network.



His dress is as fastidious as that of the Prince of Wales. And he has a pleasant naturalness of manner.

"Where did you get the idea for Station KUKU?" I asked.

"Somebody in the studio thought they wanted a cuckoo program," was the reply. "I was delegated to write it. We went on the air two years ago on New Year's Day. At first it was a sustaining feature and originally we were on the air in the evening. Early this year we began broadcasting for the Blue Moon product.

"At first I wrote the sketches, announced the program and acted several parts. Then they decided I must be a director.

"Now it is an unwritten law in broadcasting studios that a continuity writer, which was my particular job, cannot be a director. In order to get around this predicament they made me a director who writes continuities, thus avoiding a tense situation.

"Our first dramatic efforts included Fetlock Soames of Scotland's Back Yard 'Pitting His Wits Against the Green Monster,' 'The Face on the Grandfather Clock' and 'Who Stole the Fence From Scotland's Back Yard.'

"I write my own sketches. Usually they are ready weeks in advance. I direct them, too. But I never know beforehand just what I am going to

write about. Usually I just sit down at the typewriter and write a line or two of dialogue. Start any conversation between two people and something in the way of a plot is bound to develop before very long."

He went on—

"The radio has brought in a new whimsical and satirical type of humor. And the quiet chuckle seems preferable to the noisy guffaw on the air. In those early days of the movies a comedian had to shave with charlotte russe, toboggan on custard pies and dive into flour barrels to hold his public. The radio is more subtle and less spectacular."

Station KUKU has laughed with and at everything and everybody. But there are three subjects at which its arrow-like wit is never aimed. History, religion and the D. A. R.

You cannot even snicker at the events or men who made our country—funny as they may seem now or in the past. The public won't let you, declares Mr. Knight. And Mr. Knight knows his laughs and laughers.

Americans may roar merrily at the Volstead law, matrimony, Senators, gangsters, leap year and men in top hats, but they never get even a grin out of the Fathers of their Country, no matter how funny they are. The last characters of history who sent a chuckle round the world were Hannibal, Nero and Julius Caesar.

Nothing later than the old Romans is eligible as fun material on the air.

But Mr. Knight admits that some of our history past and present is pretty funny. He cannot explain the public aversion to talking about it out loud.

Incidentally the KUKU Kut-Ups have one of the largest and most cosmopolitan audiences on the air. Their greatest admirers are college professors and children although all classes and conditions write in. Tickets for the broadcasts are gone ten weeks in advance. Albert Payson Terhune never misses them if he can possibly get to the radio. Particularly he enjoys the yarns featuring the detective of Scotland's Back Yard.

Tickles the Kids

Children are the most enthusiastic listeners. Mr. Knight has a boy and a girl of his own in a rambling old house one hundred and sixty-five years old which is hidden near Redding Ridge, ten miles south of Danbury, Conn. They love the stories about Dolly Gray and Blue Riding Hood, whose grandmother had a diamond dog collar and ate the wolf to end the depression.

When plans were on foot recently to change the KUKU period from 5:30 Saturday afternoon a dreadful hullabaloo arose. The youngest generation protested against losing the feature before they went to bed.

"The love of nonsense is pretty universal," declares Mr. Knight. "Of course, some people never could understand us. But our fan mail contains comments from illiterates who can barely write, farmers, clerks, bankers, educators, actresses, housemaids and debutantes."

Mr. Knight, by the way, had no mean reputation as a playwright when he undertook the whimsicalities of the KUKU's. Indeed back in 1927 he won a prize for the best experimental one-act play of the year presented annually by the Drama League of America.

His collegiate degrees laid end to end perpendicularly would rival his own striking altitude. His path to the broadcasting studios was a zigzag trail leading from the Law School at Boston University and a law practice of two years in Boston to the Harvard Theological School for one year. From the Church

it detoured to the theatre when Mr. Knight decided to study drama under Professor Baker. Immediately he became stage manager of the famous 47 Workshop. Later he went to Yale to study playwriting under Professor Baker.

One of his most unusual experiences was that of professor of miscellaneous subjects at Ruston Academy in Havana during Professor Baker's sabbatical year. There he instructed the young idea in everything he knew nothing about and "ducked" after class so that his pupils would not ask questions.



Remember Lee Sims and his ever-changing piano rhythms back in the old "crystal" days. Here is Lee and his beautiful partner, Ilomay Bailey; have five periods a week on the NBC.

The cast of the KUKU Kut-Ups is just as remarkable as Mr. Knight himself. All of the actors are young people. There is Robert Armbruster, the maestro, Adeline Thomason as Mrs. Pennyfeather, Mary McCoy as Dolly Gray, Eustace Wyatt as Percival Pother and Jack Arthur, who sings on many programs.

At the age of eleven young Bob Armbruster made his debut as a child prodigy with the old Philadelphia Symphony Orchestra. He is a splendid pianist and director as well. At one time he

(Continued on page 30)

PUZZLE PAGE IS POPULAR

IT is too early in the month as we write this, to know how difficult our readers are finding the March puzzles. The new call from Newfoundland was all that made possible the "J" puzzle, the correct solution being as follows:

C K C V
K O M O
W R J N
X E F A

It is possible our puzzlers may find other solutions but we believe this to be the only one.

Mr. Pheseey's "magic square" ought to prove much more difficult. When it was received, the puzzle editor doubted if it could be worked and so he took it home without the key and what a tussle he got out of it. His method of solving it may be of interest to those who tried it and failed. On a large sheet of paper he drew six squares and in these he entered the frequencies of all the calls beginning with the initial letters of that square. KV having but four frequencies—1260, 1140, 1270 and 1200—he took each of

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these in turn and added it to each of the frequencies for CJ and subtracted from 3540. If the answer appeared in the WO square, that frequency was checked as a possible solution. Continuing the process, the possible answers were checked in each square after which it was not difficult to find those which added to 3540 in all directions. It was a corking good puzzle.

The four states in Raymond Corbett's problem were Florida, Arizona, Alabama and New York. This, too, was very well designed.

The April Problems

The No. 1 cross-call this month was designed by Carl Forestieri, Bronx, N. Y. It is of excellent design and enough calls have been reversed to get away from the hackneyed combinations of KWKH-CWXX. This puzzle should give our readers a struggle. Following is the key to the calls.

Across

- 1 50 k. w. on the blue.
- 2 Shares time with another 50-watter.
- 6 Four share on this wave.
- 10 Reverse. Recently traded calls with sister station.
- 12 Reverse. 24 other 100-watters on this wave.
- 14 Reverse. Half a k. w. in the West.
- 15 Its newspaper is in French.
- 18 Another newspaper.
- 20 All 100-watters on this wave but six.
- 22 Seeds.
- 27 Reverse. In Wisconsin.
- 27 Four stations in same city share time.
- 30 A newspaper on the red.
- 31 On the Potomac.
- 35 Reverse. Daytime on clear wave.
- 39 Reverse. Little but important.
- 41 Has half a clear wave.
- 46 Reverse. Station has two calls.
- 49 Reverse. In western part of western state.
- 49 Newspaper station in the CBS.
- 52 Reverse. Has two owners.
- 52 Portable Wireless Telephone.
- 58 Reverse. Shares time with three on same island.
- 59 Near 100 on most dials.
- 64 Belongs to NBC.
- 67 This station is a "wow."
- 70 While this one is a "ham."
- 73 And this one a "key."
- 76 It interferes with Akron.
- 79 Reverse. In Jersey.
- 82 Reverse. Its wave is 1725.72 feet long.

1	W	L	W	L	B	C		6	W	A	W	Z	B	W							
	A			"	A	B	M	12	W	O	L	K		K							
15	C	K	A	C	K	C	D	19	K	F	B	K	M	A							
25	O	L	C	W	W	Q	A	29	O	W	W	J	S	V							
		34	O	M				36	G			37	C	R	W						
40	K		W	F	A	A		44	C	A	K	C		47	K						
48	L	X	49	K	O	H		50		51	O	P	K	W	G						
54	X		55	L	R	W	W	59	W	K	R	C		63	A						
		64	W	R	C			66	M			67	W	O	W						
70	W	H	71	A	M	73	W	74	A	B	C	75	C	W	S	M	B	78	W	79	W
80	C	N	W	W	C	M	C	84	K	K	W	K	85	86	87	88	T	M			
	A			89	O	A	C	90	W	C	R	W		91				A			
92	C	M	B	93	W	E	W		96	I	C	L	W	O	C						

- 84 Reverse. Just changed its call and moved to another state.
 86 Reverse. A Missouri blue.
 86 In California.
 90 Reverse. Monumental radio.
 90 On 1210.
 92 150 watts.
 93 Reverse. On 1420.
 93 Daytime on key wave.
 99 Reverse. Only 50 watts.
 99 Synchronized with its sister.
- Down**
- 1 City of the same name.
 5 Andres Martinez.
 6 One of four CBS synchronized.
 8 Whole wave is CBS.
- 10 100 watts on 1310.
 12 In the Red River Valley.
 16 Interstate broadcasting.
 22 Blue in the West.
 26 Reverse. St. Olaf's.
 27 Reverse. Ditto with 10.
 30 Reverse. Call stands for state.
 35 Shuman of Nebraska.
 37 Shares with a doctor.
 39 Reverse. An NX station.
 40 500 watts in California.
 41 Reverse. Same four letters as another station on same wave.
 46 Shares time with 37.
 47 Two on this wave.
 49 Last three letters stand for city and state.

- 57 Reverse. University with 750.
 60 Reverse. 12,500.
 64 A motion picture booking agency.
 65 Uses a split frequency.
 69 A CX station.
 70 An agricultural college.
 73 The Sun-Telegraph.
 75 A phantom.
 76 Interferes with another Columbia.
 79 Ditto with 41.
 82 Only NBC in the state.
 85 k. w. but no chain.
 86 Reverse. A Dn station.
 90 Reverse. 100 on 1370.
 91 Reverse. Call has three letters alike.
 95 Reverse. Three cities in one state share time.

No. 2

AAC CCCF FGGG GKKK KLM MOOR RVV WWW WXX

No. 2 is a clever little thing designed by Carl Schmidt of Scranton, Pa. It is a palindrome which, the dictionary tells us, is a word or sentence which reads the same beginning at either end. Thus WMCA-CMW is a palindrome. The problem is to arrange the letters given into ten station calls so the letters will be in the same order both left to right and right to left.

And in No. 3 we have our old friend, the J puzzle with new requirements. The problem is to fill in eight station calls of four letters each with every other line and every other column reversed. That is, the first and third lines read left to right and the other two right to left; the first and third columns read down and the other two read up.

W		K	
S	L	R	J
R		J	
S	K	J	W

All of the calls in these puzzles are contained in the regular index of the March issue of this magazine. Get the answers to these problems to us by April 20th and have your subscription extended one issue, a free copy of the May RADEX or a radio map of North America. Be sure to specify which. We'll be waiting for you "when the moon comes over the mountain."

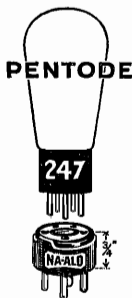
Aerials and Grounds

(Continued from page 10)

Park Place, St. Joseph, Mo. "I got WEAf one Sunday afternoon at 4 o'clock, also at 6 a.m. with KFEQ, a 2000-watt local only two channels distant. I can now get WABC, WEAf and WJZ almost at will."

"I have tried all kinds of grounds and aerials," says Wm. F. Zimmerman, Route 4, Oshkosh, Wis., "but the best yet is to take about sixty feet of No. 22 d. c. c. wire and wrap it around the electric cord that goes to the wall plug from your set." This idea of Mr. Zimmerman's sounds very good and should be well worth trying. It is, of course, the induction principle.

SPECIAL INTRODUCTORY OFFER



We need immediately 100,000 users the country over to tell their friends of the improvement of using Pentode tubes in place of 245's, particularly in sets using 245 push-pull.

There is a tremendous improvement in depth of tone and set sensitivity. The improved amplification brings in weak signals.

The Pentode Tube is inserted in Na-ald 954KPC adapter and the adapter put in the socket in the set. No change in wiring.

Money back—Adapters list at \$1.00—But for the first ten people that order from any town we will send two adapters for \$1.00 or—two pentode tubes and two adapters postpaid for \$3.00.

If after trying them in your set, you are not more than pleased with the results, return your purchase any time within five days and your money will be instantly refunded.

This ad probably will not appear again. Order today.

ALDEN MANUFACTURING COMPANY
 719 Center St. Brockton, Massachusetts

EXPERIMENTS with Aerials and Grounds

Some Interesting Conclusions

THE subject of Aerials and Grounds will always be a live one for several reasons. In the first place is the importance of these two factors in the perfect operation of any set. Second, the best aerial and the best ground can be found only by experiment, for what is best for one will not be for another. Third, some want distance and some want volume and some want beauty of tone and therefore the ideal is a matter of taste.

In this article we are giving the opinions of some of our readers who have done a great deal of experimenting in the antenna-ground field. Some of them point out that volume often increases with the removal of the ground. This is true, although we have found this increase in volume applied only to certain parts of the dial with the other parts reduced by the removal of the ground.

About Removing Ground

We feel that we should warn our readers that removing the ground is a risky experiment, as some sets are so constructed that the ground is a sort of safety-valve and such sets should never be operated for any length of time without a ground or it is subject to very serious damage. Before using your set without a ground, study your instruction book carefully to see whether the manufacturer has warned against such operation. It is impossible for the layman to tell from a set whether or not it may safely be used without a ground. The Philco is one of the sets which issues a warning against using without a ground, although this may or may not apply to all Philco receivers. The Model 55 Atwater Kent is another. Our book on Radio Theory and Modern Practice says: "Ground connection *must* be used with Model 55. This set also will not operate with either aerial post connected to the ground."

"In your article 'In the Wide Field of Radio,' I certainly agree with Mr. Owens

as to aerial length, the longer the better in my opinion," states Roger Causee, Radio Operator, SS. Thermo, care P. O. Box 6688, Lester, Pa. "Here on the ship I have an aerial 750 feet long and using the 'world's best ground,' the ocean. I can get stations on my three-tube set, and with a volume unbelievably strong, which I cannot even hear on my Victor R32 at home. I have not the facilities of erecting a longer aerial at home or I would. With the present day sharpness of sets, the longer the aerial, the better."

Uses 600-Foot Antenna

"I have been very much interested in the various items appearing in RADEX concerning the topics of 'Long Aerials vs. Short Aerials,' and 'Waterpipe Grounds vs. Specially Constructed Grounds,'" writes Richard D. Caddell, 605 Ridge Ave. N. S., Pittsburgh, Pa. "To begin with, I have been experimenting with different types of grounds and aerials for fourteen years now, in many different localities, both in the United States and Canada, and also



Chester Lauck (right) and Norris Goff, "Lum and Abner" who have rocketed to popularity in less than a year. At 2:00 p.m. EST, Monday, Tuesday and Wednesday, NBC-WJZ

abroad. I have experimented with over seventy different types and lengths of aerials ranging from 2300 feet to 10 feet in length, and numerous systems of grounds.

"You may tell your radio audience not to condemn one particular type of ground, or an aerial of a certain type of length, just because they might not give the best results in the location they are used, as the identical ground and aerial might bring the very best results in another location. I have studied grounds and aerials and have found that the best results cannot be expected simply by erecting one aerial and ground and then expect to receive foreign reception. It may take at least a dozen or so of grounds and aerials to find the combination best suited to that particular location.

Ground Helps and Hinders

"I have also found that in some locations a ground connection will reduce the volume on some sets when used. It will also be found that on certain nights a ground will boost up the volume of a set, and again the next night reduce the volume. For good DX reception a knife switch should be connected to the ground connection of a set, as many stations never heard before can be tuned in by simply using the knife switch, thus disconnecting the ground. I highly recommend a ground when a short aerial is in use, or if the set owner lives in a poor location. A ground is at its best in those two instances.

"A ground is nothing more than a filter, and consequently when used with a perfect aerial has a tendency to drain part of the signal strength, in some cases. However, all in all, it is up to the set owner himself to experiment and find out which system of ground and aerial is most suited to his set and its location. I am at present using a 600-foot aerial and would use a longer one but for lack of space. I use no ground."

It will be seen from the above that Mr. Caddell takes exactly the opposite view regarding grounds from that advocated by Ollie Ross of California, who has stated his belief in several issues of this magazine, that the ground is perhaps the one most important factor in proper reception.

Uses Three Antennas

"The discussion regarding short and long antennas finds me on the long end," reports Robert R. Rawstron, 296 Main St., Claremont, N. H. "My aerial at present is 350 feet long, some 50 feet high, with 25 feet of lead-in. My own experience reveals that 200 feet is much stronger in volume than 100 feet and that while 300 feet is stronger in volume than 200 feet, the difference is not so marked. I feel well repaid with my efforts in putting up a longer aerial than is considered customary."

"For some time I have used three antennas, about 100 feet each, with 40-foot lead-in each, to a single throw switch each on wall panel; a single r. c. wire connects radio with the three switches," advises Chase Pulsifer, Box 576, Yuma, Ariz. "Have demonstrated to many local fans, on several makes of radios, from 6 to 10-tube, the jump in volume of reception as each additional antenna is switched on. The jump is especially noticeable when a. c. current is turned low before each addition. Arizona, especially Yuma, has a hot, dry climate and very many periods of static. The small amount of a. c. volume required to operate with long antenna, as noted above, frequently changes log from 'excess static on one antenna' to 'clear reception on three antennas.'"

"You who have A-K 70 receivers or similar models and can't use long aerials for fear of spoiling your selectivity, try my trick," suggests Richard F. Miller, 2705 Pennsylvania Ave., Dallas, Texas. "Take about 15 inches of insulated copper wire, lay it across the leads from the r. f. coils to the condensers. This will cause an oscillation which can be governed by raising or lowering as desired, according to amount of volume you use. I have mine fixed on a lever which is controlled from beneath the cabinet, and now I can get CMK and WSB on either side of XER, which is pretty good for this location."

"I have tried winding the aerial and ground spirally together and connecting opposite ends, and it works swell," reports Richard Douglas, (1125 Krug

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BETTY'S PAGE of GOSSIP

IT has been thirteen years since Billy Jones and Ernie Hare first met; eleven years since their first broadcast, yet they are still together and still radio headliners. Singing together, joking together, they have laughed and jested their way into the acquaintance of millions. They have seen a whole decade of changing public taste, and have remained successful and inseparable.

They were born on the same day of the month, and although not related their mothers had the same maiden name. They are the same height, the same weight, and are even beginning to look alike. Both had a try at business before taking the advice of friends and going on the stage.

Ernie Hare was born in Norfolk, Va. As a boy he sang in church choirs, but

Meet the Folks You Hear

for a career he selected the baking powder business. He became a traveling salesman, but failed to down the desire to sing. Whenever he found himself stranded in a small town over Sunday he always hurried around to the nearest church and offered his services as a soloist. Once he gained sufficient faith in his voice, he lost no time in breaking into the theatrical profession. He made Broadway in four years and his record there includes fourteen musical shows, among them "Sinbad," in which he understudied Al Jolson. Then he met Billy Jones.

Jones was born in New York City, and he, too, sang as a choir boy during his early school days, but abandoned the thought of a music career and went to work in the Custom House; then to a bank, and later to hard labor. He herded sheep in Wales, mined ore in New York State, climbed poles for the telephone company and made cable for Western Union. All the time he continued to sing for his fellow workers and friends. Eventually they persuaded him to give his voice a real trial, and finally he was launched on a theatrical career.

After several seasons in vaudeville, he reached Broadway and scored a real success in musical shows. More musical shows, vaudeville and concert tours followed. Then he started



making phonograph records. Meanwhile Ernie Hare was also making records, and it was in a recording laboratory that Gustave Haenschen, now an NBC orchestra director, introduced them.

The team of Jones and Hare was born that afternoon. Haenschen wanted someone to sing a duet for a record his orchestra was making. Billy and Ernie offered to assist him before going their separate ways. To their surprise, they found that their voices blended exceptionally well. They liked each other's songs; they liked each other's jokes; in fact, they liked each other. They left the laboratory together, and before reaching the street corner had decided to stay together. For a while they appeared in vaudeville. Then, more for the fun of it than anything else, they faced a microphone "that looked like a tomato can hanging on a hook" and gave a ninety-minute program in the studio of the old WJZ station in Newark, N. J. This was in 1921. One broadcast led to another, and today the boys claim the distinction of being the first entertainers ever to be paid for radio work.

Listen in for this famous pair any night, except Saturday and Sunday, at 7:45 p.m. EST over the NBC-WJZ network. And for Rocky Mountain and Pacific Coast listeners at 12:45 a.m. EST.



Vivien Ruth was born on January 22, 1913, which makes her just 19, but numerologists ought to figure out just what 22 means in Vivien's life. Her mother and father celebrated their birthdays on June 22 and February 22, respectively. And, oddly enough, they were married on July 22. When Vivien was still wearing long curls her father passed away—on August 22. Another milestone in her life occurred last December 22, when, as a result of her singing at a private party, she made her radio debut over a New Jersey station. And exactly one month later—January 22—the singer first poured her songs into a Columbia microphone, singing as an exclusive artist with that network the same day. Also, if we may mention it, it was on February 22, three years ago, that Vivien parted with a misbehaving appendix, and just what "22" holds in store for her remains to be seen.

Stepped Into Big-Time

Vivien professes to have been a tomboy always. When a youngster in Passaic, N. J., her home-town, she never played with the girls, but would find delight in playing games with the boys. From her mother, a talented pianist, she inherited her musical ability. Vivien reached her third year in high school, imbued with a desire to become a physical training teacher, but that unruly appendix brought her to the hospital. She never returned to school, choosing instead to become a homebody. After a while she became restless and decided to seek employment. Two positions awaited her—one in a Ford agency at \$25 weekly, and the other in the agency of a higher-priced car which offered \$20. She took the second.

Last December she happened to be singing at a party which was attended by a friend who was associated with radio in New Jersey. He suggested she try microphone singing, and arranged for her debut over a local station. Her success was instantaneous. On that eventful January 22, Vivien Ruth stepped into the "Big-time" with her first broadcast over the Columbia network. She wasn't a bit nervous on the occasion, nor does she ever get mike-fright, at least so she says. Peter B. Kyne

is her favorite author. Though she can't read a note, she only has to hear a song but once to know it. Her pet is a Maltese cat, and her pet songs are "Sleepy Time Down South" and "The Rosary." Vivien can be heard at 5 p.m. on Tuesdays, over the Columbia network.



FRANK KNIGHT

You've probably heard Frank Knight do a lot of announcing, but now we are pleased to announce Frank Knight. Frank was born in St. Johns, Newfoundland, on May 10, 1894, the son of one of the town's most prominent barristers. After his graduation from St. Bonaventure's he settled in the town of his birth and took up life as a bank clerk.

At the outbreak of the war in 1914 he enlisted with the Royal Newfoundland Regiment. During his three years overseas he took part in action on the Western front and about Gallipoli, and was wounded in the battle of the Somme. Returning home broken in health, Frank was faced with the problem of readjustment. His health was slow to return and after months of recuperation he became restless and anxious to break away from what he considered the tedium of banking. Knight enrolled at McGill University for a course in medicine, but the long hours of study and strenuousness of that calling forced him to abandon his studies during the second year. Then Frank went to New York. He had vaguely thought many times that he would like to be actor. He had little training for the theatre other than courage, but it was just that abstract quality that won for him a place behind the footlights. After playing numerous

minor roles in road companies of Broadway productions, he appeared opposite such stars as Francine Larrimore and Nance O'Neill.

From Hobby to Business

Frank went into radio at first only as a hobby. He played occasional small parts in radio dramas, but as time went on he gave more and more serious attention to its possibilities. But there were hardly enough radio dramas to justify giving up the theatre altogether. He was still doubtful when he yielded to the advice of his close friend, Ted Husing, to join the ranks of WABC announcers. Although he occasionally misses the glamour of the stage, Knight never has regretted the move.

Frank is tall and good-looking. His hair is black, greying a bit around the temples. His bearing instantly suggests his military training. He is quiet and well-poised. Frank Knight is Columbia's British-accented announcer with an all-American following.



Burns and Allen

Have you heard Gracie, the "Dumb Dora" of the team of Burns and Allen? Gracie provides the laughs and George "feeds" her the lines. Although George Burns and Grace Allen are one of the most popular and widely-known comedy teams that have appeared in vaudeville and talkie shorts, it was only a short

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IN THE EDITOR'S SANCTUM

The Monthly Confab

WE have gotten into trouble several times by changing our index upon reports from our readers particularly regarding change of frequencies. Oftentimes the frequency of a station shown on their verification card or letter is incorrect, being an old one. We are therefore including these reports in The Month's Changes under the head "Heard on Other Frequencies." As fast as these can be officially verified the index will be changed but not otherwise. Readers should therefore watch these rumored changes in their DX work.

"Could you please help me about my set," requests John J. Barlow, 2803 Woolsey St., Berkeley, Calif. "It is an Apex (6-tube and rectrifier) Neutrodyne. This set has a wonderful tone, but is extremely broadtuning. On a 12-foot indoor aerial many of the locals take up many spaces while when I use my outdoor aerial the locals, especially KRE and KGO, take up from 5 to 20 spaces on my dial. About the only distant stations that I can get when the locals are on are KFI, KNX, KSL and, once in a while, XER, WTAM, KWJJ, KEX and KJR. I have put a small fixed condenser between my aerial and set, but this does not seem to help. I have talked to several radio men about wave traps, etc., but they all say that my set is too broad to be helped by any of those appliances."

Perhaps the most frequent inquiry that comes to us from our readers is how they can sharpen the tuning of their set. It is a difficult question to answer helpfully and if any of our readers have succeeded in this problem with their own sets, we would like to have them write us about it.

"In your index the symbol after WCFL, Chicago, is 'Dn,' but I have often received it after midnights," reports I. H. Nixon, 265 Pacific Ave., Toronto, Ont. The symbol D indicates a daytime station but Dn indicates a daytime station which may use evening hours by

special arrangement. Most restrictions on all stations are waived after midnight. In addition to this, this magazine carried a notice an issue or two ago that under special arrangement with KJR in Seattle, WCFL would try out night hours to see if they could broadcast nights without interference. RADEX gives the information you want if you will follow it closely. Very often someone who evidently buys a copy only now and then writes us for information that has appeared in our pages just recently. If you are truly interested in Radio, you cannot afford to miss a single issue of "The Radio Fan's Own Magazine."

Set Won't Bring Japan

"Why can't I get Japan?" is the cry that comes to us frequently from readers all over the continent. Thus Robert Rosenberger, 17 Jansen Place, Kansas City, Mo., writes: "The set I use is a Kolster, six-tube. It has gotten KFSD in San Diego, CMBS, KTAR, WSYB and 100-watters in South Dakota, Illinois and Alabama. Why cannot this set get over the seas?" We might answer this question by asking another. "I use the same kind of golf clubs and the same balls as a friend of mine. He got a hole in one; why can't I?" It isn't so much the set one uses, for we have reports of transoceanic reception on many different kinds of set. Perhaps with the very best set one may never tune in European or Asiatic stations in the b. c. band, but if one does it will be a combination of infinite patience, tuning at the right time and—luck.

WGM Passes Out

WGM, Jeannette, Penna., just won't play the game with us. We refused to list them when they were on the air and then when we did finally include them, they seem to have gone off the air. Says K. Vance Shaffer, 463 Center St., Morgantown, W. Va.:

"WGM's owner, Mr. Spencer, was convicted of interfering with other stations and appealed his case. When it came into Federal Court in February, Mr. Spencer was paroled for two years

by the Federal judge and ordered to discontinue operations of WGM.

"Their last broadcast was February 17th and they will be back on the air soon if they can get a license. I heard their last broadcast and got this information from their lawyer on the broadcast."

Here's That GZ7

Here's a report on the mysterious GZ7 from Elmer C. Roth, 1294 W. Grand Blvd., Detroit, Mich. "This is the call assigned to the Armory for experimental purposes. It is located at Brush and Larned Streets in Detroit. They have been given permission to use 635 keys. It is on the air every Monday and Friday evenings from 7:00 to 8:00 p.m. EST." This doesn't exactly clear up the mystery, for where do they get a "G" call and why are they permitted on a split frequency in the broadcast band? We have a hunch the armory boys are trying to slip something over.

George Fabian, 1463 Virginia Park, Detroit, adds the following regarding this station: "GZ7 is the station of the Michigan National Guard, 182nd Field Artillery. February 1st they broadcast their own band, played well-known marches, asked for criticism and promised music every Friday at 8:00 p.m. EST. They are on 640 and 1275 keys. Come in best on 640."

The Early Worms

Up in Toronto, a radio person by the name of Al Leary has conceived a fantastic idea. He has inaugurated the Early Worms club. The idea is that the Early Worms go on the air at 2:30 o'clock Saturday morning and the feature of the program is the initiation of some New York radio star into the club. This is done by calling the person to be initiated on long distance telephone and broadcasting the conversation between Toronto and New York. If your set will bring in CKCL in Toronto, you'll probably hear a most amazing program every Saturday morning.

Chas. E. Summers, Sr., 28 Gallatin Ave., Buffalo, N. Y., thinks that The Stebbins Boys, Amos 'n' Andy, and other programs must be from records because he hears the same program twice each evening, "word for word." There are, of course, a number of programs on the air

which come through electrical transcription, such as the Seiberling Singers, but such programs are seldom if ever given a "spot," that is they do not appear regularly at any certain hour but are used to "fill-in" in periods not otherwise taken. The features Mr. Summers names are separate performances by actual artists. Careful rehearsal accounts for the "word by word."

One Station with Two Powers?

"I believe you are wrong," writes an anonymous reader from Des Moines, Iowa, "in listing WBAP with only 10,000 watts and WFAA with 50,000 as



Bess Johnson, leading lady of "The Witching Hour," a spooky program. At 9:45 p.m. EST, Saturdays, CBS

they are the same station using same transmitter and power." It is true that both transmitters are located at Grapevine, Texas, which is between Dallas and Fort Worth, but the Radio Commission always shows the power as 10 k. w. for WBAP and 50 k. w. for WFAA. If they use one transmitter, why are they given different ratings? Can some of our Texas readers advise us?

"I have a Philco Baby Grand," writes F. L. Askew, Ocean Falls, B. C. "From 550 to 1200 every station comes in where it should but KGA at 1470 comes in at

1380 and KPQ at 1500 comes in at 1400, KSTP at 1460 comes in at 1400, etc." We have pointed out before how difficult it is to mark dials in kilocycles and have stations on all channels come in accurately. In fact, if there is a set on which stations come in as marked from 550 to 1500, we have never seen it. But the trouble experienced by Mr. Askew is exceptional.

XER Wants Whole Dial

Dr. John R. Brinkley, Kansas goat gland specialist, today announced plans for increasing power of his station XER in Villa Acuna, Mexico, to 150,000 watts, says a newspaper clipping sent us by Richard F. Miller, 2705 Pennsylvania Ave., Dallas, Texas. So set aside about one-quarter of your dial for the good doctor. Mr. Miller thinks southern readers should be able to tune in CFCN Friday nights at midnight CST. If you want to hear a program that's different try WCKY at 1490 at 7:30 every night except Monday, CST, adds Mr. Miller.

There was a real KUKU, says Donald Cohoon, 48 Close Ave., Toronto, Ont. It was a portable set operated by a sound-movie company in the wilds of Brazil which used these call letters. It was in constant touch with U. S. amateurs during its sojourn there.

A traveler who always carries a portable radio set asked the clerk at the hotel, "Do you have A. C. or D. C. current here?" and got this reply: "Neither of 'em registered."

That "Fraudulent" Mail

"For the benefit of the Prairie State DX Club, perhaps the letters they mailed to XER and XED contained currency," writes Mrs. Roy Schanck, El Paso, Texas. "If so, that is the reason they were returned. XED broadcasts the Tamaulipas State Lottery and the sale of tickets. Uncle Sam returns the letters to the senders if they are addressed to the Radio Station. One can gamble in Wall Street on stocks, but purchasing lottery tickets, even though in a foreign country, and it's fair and square, is forbidden, at least by mail."

If your volume control is noisy or makes poor contact, here's a suggestion from Keith L. Freas, 17 Pullman Ave., Kenmore, N. Y.: "Wipe the resistance

winding off with a cloth dampened with cigar lighter fluid to clean it, and oil it sparingly with Nujol or American oil. This lubricant is the one recommended by the set manufacturers, as it contains no acid, does not become rancid, or does not gum. The oil is to be applied with a soft cloth. Don't ever try to use sand or emery paper to clean this fine wire, as you will be sure to wreck it."

"I have some 'dope' on pepping up Radiola 44 sets," suggests George Buckman, Hillside and College Aves., So. Nyack, N. Y., "which will prove helpful to DXers with such sets. Some simple soldering and a 75-cent resistor are all that is required. On my set I increased sensitivity so much that KPCB came in the very first time I DXed after the change. Previously KFI had been my only coaster with that set. DXers may have this information if they will enclose postage in any letters I may receive."

Reception by Arithmetic

Many of our readers jump to the natural conclusion that one ought to be able to estimate reception mathematically but radio is too temperamental to be figured out thus easily. "How is it that I can't hear WCAU, Philadelphia, when WPG with half the power is further away and comes in fine?" asks John Videberg, 375 Waterville St., Waterbury, Conn. Distance and power are only two factors. Geographical, meteorological and even geological conditions have greater influence. Radio reception is peculiar and just cannot be estimated by distance and power.

From Wm. E. Johnson, Vinalhaven, Maine, comes the report that radio reception is considered very good there. "We get Chicago stations in the daytime, when reception is good," he says. "I have tuned a number of coast stations, but as yet haven't got any foreigners, outside, of course, of the Mexicans, etc. My best catch was last February when I tuned in TJW, Hamilton, Bermuda, with 7½ watts power. I also have CNRV, Vancouver."

"In the November RADEX Herbert Haussler claimed Pacific DXers bragged too much of their Japanese catches, and wished to know if any Pacific Coaster

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The TROUBLE DEPARTMENT

Conducted by
The Technical Editor

All Wave Set Is Inefficient on Short Waves

Can you help me out on my Tyrmen, model 80, all wave receiver? It does not work well on short waves, and is noisy and interfering on higher waves. Can you tell me how to rewire it for standard waves, or just for short waves, so that it will work better?

The circuit of your receiver is conventional, and should give as good results as possible for such a set. We believe, however, that the shielding of the tubes, which seems to be in contact through some insulating material, touches the metal tip of the screen grid tubes. If this is the case, that material ought to be removed so that the cap is freely projected out through the top of the shield can. This touching of the tube cap may be responsible for considerable loss of energy at the low waves.

Your tubes should be checked, and perhaps a new oscillator will help matters. You cannot substitute new -35s for the -24s in this circuit. An automatic volume control cannot be installed, unless a complete change of wiring is undertaken. We know of no method by which the wiring can be changed to make a standard broadcast receiver without practically creating a new circuit. Even then, its efficiency would not be improved. We are sorry that we know very little of this set, and cannot furnish you with the present location of the factory. It is likely that they are no longer in business.

Short Wave Converter

I have just purchased a short wave converter to use with my R. C. A. superheterodyne receiver. I have a lot of trouble in finding a good spot to work the converter on my receiver. Can I use a wave trap between the converter and the set?

You cannot use a wave trap between the aerial and the converter so as to make the superheterodyne tune more sharply and respond to the short waves.

The wave trap could be used if the converter were discarded. But the converter responds to only the short waves, and the wave trap most likely responds only to the higher waves.

The receiver should be set at about 1,000 kilocycles before attempting to tune the converter. You do not say what kind of converter you use. In other words, your set is tuned to its intermediate frequency, or heterodyne signal wave length, and the converter then acts as an oscillator to drive the short



One appearance as guest artist made her star of "Today and Yesterday." Gladys Britain, soprano. CBS Friday at 8:30 p.m. EST

wave signals, after beat note conversion, through the broadcast receiver.

Signals Louder Without Ground

I have a model 80 R. C. A. set. Would you advise me to change to the -35 tubes, and put in a -50 in place of the -45s? Why does WJAY at Cleveland come in louder when the ground wire is removed, but all other stations best with a ground?

We do not recommend any changes in the tubes of this receiver. Leave well enough alone. You could not replace the -45s with a -50 without considerable rewiring and power output alterations. It is impracticable.

Occasionally a freak of nature bobs up in radio reception. All stations should be received best when a ground wire is in place. The trouble may be due to a fault in the ground wave coming from WJAY, making reception best on the reflected atmospheric wave. Do others observe the same freakishness? We are at a loss to account for it. Of course,

defective tuning or extra capacity in the receiver, may account for some freaks of radio tuning.

Those Crackling Noises

I have an Atwater Kent model 67 receiver which now makes sharp crackling sounds at times. This set has been overhauled and seems to be perfect, but now these sounds have started. They do not vary with operation of the volume control. What do you advise me to do?

We infer that these sounds have not been heard for very long. This type of noise can come from a defective "B" battery. When one cell in the battery breaks down it causes much noise. Test the battery with a voltmeter set in place for some time. As each noise comes from the speaker notice to see if the indicator hand of the meter shows some deflection. The obvious remedy is a new battery, or the removal of the defective cell.

You will also find coming from the secondary of the output transformer two colored wires that lead to the voice coil of the speaker. The wires are yellow with black traces through them. Test for looseness, and also test out the speaker coils. Noise may also come from the tubes in their sockets, particularly the two -71A power tubes. Disconnect the aerial and if the noise stops then the trouble is in the aerial; it may be loose or touch some metallic object.

Noisy Condensers

I have a Knight eight-tube set that is noisy when the dial is turned, but the sounds stop as soon as I cease tuning in a station. The set also howls when it is being tuned to certain stations. What must I do to remedy these annoyances?

The Knight receiver uses three -24s, two -27s, two -45s, and one -80, and if these tubes are set tightly in their sockets and have been tested and found satisfactory, the trouble is elsewhere in the set. Therefore, we believe that loose contacts in the variable condensers or grease and oil in the shaft bearings is the cause of this annoyance. Spring connections between the rotor plates and the stationary parts of the condensers frequently cause tuning noises. Check for perfect electrical conductivity. Also, one

of the condenser plates may be touching and rubbing as it moves in and out when the dial is turned. There are three of the variable condensers tuned with a single dial and shaft.

Howls and squeals that are noticed when the set is tuned, especially at the high end of the dial, may be due to imperfect grounds, particularly the brackets that hold the radio frequency coils and choke coils. Each bracket should be grounded to the metal chassis. If the trouble is microphonic then the tube that is in trouble should be covered with a "howl" arrester. This tube may be found by grasping it when the howls are being heard.

Patience Is Needed

My 726 All-Wave Silver-Marshall receiver seems to have considerable noise and does not get many short wave stations. There is a nearby station in Pittsburgh that I cannot get on this set. What can I do to make this set work better?

The set you are using is one of the best receivers of this combination type procurable. If the set is new it might be best to take the matter up with the local dealer. But one of the principal difficulties of short wave reception is the inability to pick up short wave stations with ease. Short waves require an infinite amount of patient tuning, for they are very sharp and may be passed over without knowledge of their presence. Turn the dials very slowly, and be sure that you set the broadcast receiver tuning dial to about 650 kilocycles.

The noise may be due to the great sensitivity of the set. There is a certain amount of noise level which cannot be avoided in these sets. Do not turn the volume control of the broadcast receiver up too far. The converter portion of the set is a short wave detector and oscillator using -24 and -27 tubes. The incoming wave is heterodyned to the radio frequency to which the broadcast set is tuned. This gives the entire outfit a series of three detectors, two oscillators, and five other tubes in the radio and audio circuits. Noise must be expected in such a sensitive hook-up. However, check your power tubes (47s) and speaker for faults.

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TUNING IN with the RADEXERS

WELL, how many of our DXers pulled in KXRO and 10-BQ on their special broadcasts for RADEX listeners? And who will prove to have either station at the greatest distance? If these two tests were successful in interesting considerable numbers of our readers, arrangements will be made for similar programs in the future, probably with the coming of the next DX season.

In the meantime, let's see what our DXers are doing and thinking about.

"I see some of the radio fans boasting about their wonderful radio reception," comments Cecil Westcott, 1318 Third Ave. No., Lethbridge, Alta., "and thought I would say how well I have been receiving stations. I have only had my radio the last three weeks and I have had from coast to coast. It is only a seven-tube set (no pentode tubes either). During the three weeks I have logged seven Mexican stations, besides many U. S. and Canadian stations. WABC comes in pretty regularly, as does WTIC and WCAM. Another eastern station received is WCAD, Canton, N. Y."

"My log now consists of 242 stations collected in six months of DXing," says Thayer Bartlett, Borodino, N. Y. "These have been brought in over a loudspeaker with an Atwater Kent Model 84-F Superheterodyne. My log includes KPO, KFL, KFOX, KNX, KOA, KSL, XER, XED, XEW, XEO and CMK. I have tried grounds connected to the aerial post, inside aerials, and outside aerials, and of these I get the best results with the inside aerial, of seven-strand copper wire, non-directional, strung in a loop in the attic of my home, about 95 feet long."

Ten Watter Reaches Out

"Mr. Leigh wonders how far WNBW, the ten-watt station Carbondale, Pa., was heard," recalls James Fogarty, 143 Wilkins Ave., Port Chester, N. Y. "While listening in to one of their DX programs, I heard the announcer read a telegram from a listener in California,

What the Log Builders are Doing

saying they were enjoying the program and requesting a number played." Which shows how a ten-watter can reach out and how many more stations our DXers can log with great patience. "How is this for a DX prize?" queries Mr. Fogarty further. "A two-pound package of date prunes from KPQ in Wenatchee, Wash., for the first report on their DX program of January 24th from the state of New York." It's not everybody that can tune in a box of prunes, James.

Verification Without Reception

Robert E. Moran, 31 Rochester St., Ottawa, Ont., must DX in his sleep. He has just received a verification from CMBG, Havana, stating his reception of that station was correct. "But the funny part of it is," says Robert, "I have never heard this station and I have never corresponded with him in any way." Life is like that—one fellow gets a verification he never earned and others write twenty letters to get one that is coming to them. Mr. Moran postscripts to Richard W. Mitchell, Three Rivers, Que., that the station he heard was CMCD from the Hotel Palace (not the Statler) in Havana. And to Wm. Scholer his KDK was undoubtedly KGEK, Yuma, Colo., as that station has been coming through fine lately.

Gets Sydney for Breakfast

"I have a Marconi DeLuxe Model 27 S. W. all-wave radio and have done considerable DXing with it, but have had no luck with the Canadian West. Mexico, California, Texas, Spokane, Wash., and all those stations come in, but no Canadian West stations. Could any of your readers help with time on the air for Winnipeg, Vancouver, or any others?" asks Fred W. Harp, 52 Dundas St., Brantford, Ont. I get VK2MC, Sydney, Australia, every Sunday morning between 5:30 and 6:30 EST. Would be very glad if you could inform me as to where I could get a good short-wave log with time on the air (universal)."

"DX reception has been very peculiar here this year," reports Edw. C. Houlgate, 351 Adelaide St., London, Ont. "Static has been very bad at times, and although we have had some real good nights, reception has not been as consistent as in other years. In a little over six months I have logged 486 stations. Have some good catches, such as KGFJ, KJBS, KPCB, KGCX, CKMO, CMCY, CMGF, etc. Have 121 stations using 100 watts, and 19 using 50 watts or less. My only station off the continent is KGU and I was lucky to get them. The morning I tuned them in (January 19th), WDAY was shooting their carrier wave out, every few minutes, testing."

Some Good Records

"I have a radio which was five years old last November," writes 14-year-old Ray Duerling, 2102 Harford Ave., Baltimore, Md. "It is an A. C. Dayton five-tube set. My set may be old, but in the last two years I have brought in 128 stations of good distances. My best catch was KFI, Los Angeles, which is 2282 miles from here. CFRB, Toronto; CHYC, Montreal; CKCK, Regina, Sask., are three of my eight Canadian catches. I have also brought in CMX, CMK and CMC, Havana, and XER, Villa Acuna, and XEO and XEW, Mexico City."

"I am very proud of what I received on Sunday morning, February 14th," says C. Herbert Herr, 957 W. College Ave., York, Pa. "On this occasion I heard five new stations in California: KGER, KSFG, KTM, KELW and KMPC. KELW came on immediately after KTM signed off. On the same morning I got WWRL, Woodside, N.Y.; WCOA, Pensacola, Fla.; WJTL, Atlanta, Ga.; KFEL, Denver, and KGCX, Wolf Point, Mont., all new ones. I am most proud of this last station, as it is only a 100-watter."

"I was sure surprised February 2nd," writes Earl R. Roberts, 712 So. 9th St., Cambridge, Ohio. "A letter came from 4-RK, Rockhampton, Australia, and verified my reception of that station on Monday, November 14th, from 5:28 to 6:01 a.m. EST. The letter was post-marked January 2, 1932, and was just one month in travel. 4-RK came in on

the loudspeaker, although very weak and fady at times. I also heard this same station the next morning at 5:30 and so had two mornings for verification."

"My husband is the DX fan and I'm the puzzle fan," confesses Mrs. M. N. Deacon, 20 Hammond St., North Bay, Ont. "In all sincerity I can say that every month we can see some added improvement in RADEX. We've used it ever since we got our radio and I think my husband has logged some fine catches, including WNBW (10 watts) Carbon-dale, Pa., CKMO (100 watts) in Vancouver, also nearly every state in the U. S. and Mexico, and nearly all the provinces in Canada."

"Although I haven't a short-wave set, I get short-wave station W5XA of Shreveport, La.," reports Russell N. Ely, 2488 Whitney Ave., Niagara Falls, N. Y. "My dial is graduated up to 1600 keys. They verified my letter and would like to hear from other fans. At present their daily time on the air is 4 to 5 a.m. and 1:30 to 2:30 p.m. CST. It is an experimental station broadcasting on 1594 keys., with various amount of power up to 100 watts."

He Gets 2YA, Too

"I am very interested in the letter of Arthur Collins, Buffalo, N. Y.," writes Harold G. Lorang, Darien Center, N. Y. "He has a really wonderful record and 2YA is a great catch, but he is wrong in thinking that he is the only one in this locality to reach New Zealand. I have a verification from 1YA at Auckland, New Zealand, and I also have JOCK, JOGK, LR4 and CMGB (7½ watts, Matanzas, Cuba), all-verified."

"Have been reading with great interest the DX pages for a couple of years," writes M. H. Deacon, 20 Hammond St., North Bay, Ont., "and wish to give you a few of what I call good catches and all verified. Have a Stromberg-Carlson, which I got last fall, and have stations from coast to coast, in Canada and the United States, and also have one Cuban. Have a log of over 350 stations now and if announcements were more frequent, could add another hundred this month."

"You're to blame for getting me to stay up until dawn breaks, getting new

stations," accuses S. H. Parsons, Jr., Box 289, University, Ala. "I've verified 262 since October. I've yet to try and not get at least one new station each time I sit up late. My five-tube Gloritone has pulled in KXRO, KPCB, KHQ, KVI, KEX, VAS and 54 of 100 watts or less, the lowest being CMJE, Camaguey, Cuba, a 20-watter."

"I have had a nine-tube RCA Model 80 for 16 days," postcards Richard P. Tickell, Jr., 1443 E. Wood St., Decatur, Ill., "and have logged 247 stations. My list contains 15 California stations, 13 Canadian, 6 Cuban and 6 Mexican. I recently caught KPCB, a 100-watter in Seattle; KRMD, Shreveport, and CKPR, Port Arthur, Ont., both 50 watts. I have every channel except 540.

"On January 1, 1932, I had a log of 222 stations, with 79 verifications," reports Rexford Newcomb, Jr., 605 W. Nevada St., Urbana, Ill. "Today, February 18th, I have a log of 329 stations with 197 verifications. That's pretty good improvement, I think. I am trying to hit the 250 mark on verifications before the current DX season is ended."

"For the past five weeks I have been using an Apex model 7-A seven-tube Superheterodyne and have logged more than 180 stations on all broadcast channels except 540 kcys.," comments G. W. Peeler, 509 No. Main St., Elk City, Okla. "There is nothing exceptional about my log, although I do drag in a few 100-watters on the west coast."

"I would like to know what all you DX fans think of my list of stations," inquires Milford Voss, 940 E. Fulton St., Grand Rapids, Mich. "Who can beat this for being 1800 miles away? I have 33 California stations of the 41 listed; 22 Mexican stations; 7 Cuban, and 38 Canadian. In all I have 579 stations."

"Those west coast stations come in better than ever before," writes A. W. Snyder, 3216 W. 38th Place, Chicago, Ill. I used to think KOAC, KTM, KMTR, etc., were good catches last year, but this year I bring in KFVD almost every night and have heard KGFJ, KFXM and KREG very clearly at times."

Jameson Lewis, 215 West 2nd St., Dayton, Ohio, submits a long list of

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- 0-25 Milliamperes D. C. No. 325
- 0-50 Milliamperes D. C. No. 350
- 0-100 Milliamperes D. C. No. 390
- 0-300 Milliamperes D. C. No. 399
- 0-400 Milliamperes D. C. No. 394

NAME

ADDRESS

CITY.....STATE.....

stations he has received this season on his Victor R-32. His farthest east is the new WRDO at Augusta, Maine. His best western is KPCB which came through from Seattle one morning in January at 5:00 a.m. with excellent volume for a hundred-watter.

"When I bought my first RADEX I had only 125 stations. Within a month, I doubled my total and at present I have logged 324 stations. I have been DXing only since about the first of November. I use a Philco nine-tuber." Edward Friedman, Jr., 92-13 Boulevard, Rockaway Beach, N. Y.

A log of 163 stations since Christmas is the record of Arthur G. Turner, 36 Arlington Ave., Beverly, Mass., with his new RCA-Victor. He wants time on the air for a number of stations. He will just have to watch the columns of RADEX for this information as it appears from time to time.

"I now have 429 stations (since last January a year ago) in North America," reports Russell R. Quaintance, 720 Gibbard Ave., Columbus, Ohio. "Am using a Majestic 131 TRF radio. That is on broadcast wave only. I have many more on short wave with a converter."

"I am a thorough DXer," admits I. H. Nixon, 265 Pacific Ave., Toronto, Ont., "owning a single-peanut-tube set, which, I think, has given me wonderful

DX. My only opportunity to use this is on week-ends, but even with this handicap, I have had 175 stations."

"I received the headphone adapter all right," writes C. E. Lyons, Handley, W. Va., "I picked up several new stations from fifty watts to 250 and at 11:20 EST, my boy got London, England, direct."

WHEC still uses the WABO call on tests, Tuesdays from 5:30 to 5:45 a.m. EST, according to R. R. Rawstron, Claremont, N. H.

"I am writing to you about a station on 1000 keys. that answers the description to the one Sam Kiamie of New York wrote about which appeared in the December RADEX," writes Ernest Paynter, 30 Daniel St., Dayton, Ohio. "I have been hearing this station for some time but never could get the call letters clearly until Wednesday morning, February 10th. He was giving stock quotations and sounded like a rebroadcast from a foreign country, but as soon as he quit giving stock quotations he said, 'WWAS, Cincinnati,' then went silent." WWAS is the Department of Commerce station at Cincinnati.

Here are some tips from R. H. Van Beynum, Wilbraham Academy, Wilbraham, Mass. "CMCD, CKCJ, CMCY, CMCU can all be received after mid-

(Continued on page 25)

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Write Name Plainly

Street and Number

City and State

Trouble Department

(Continued from page 18)

Certain short waves cannot be heard at nearby points for they are subject to what is known as the "skip distance," which causes signals to pass over without being heard. This may be the case with the nearby Pittsburgh short wave station that cannot be heard.

Automatic Volume Control

I have a General Electric model H-31 receiver. Can I put on an automatic volume control. You said in the December RADEX that this could be done, but the General Electric Company advises that the change is impracticable. What is the information you have about it?

If you will again read the question and answer on page 29 of the December issue of RADEX you will see that the word "automatic" is not used, and the question does not refer to automatic volume control. Your receiver cannot be changed to use the volume control which is known as automatic. This scheme is an integral part of the circuit and is entirely different than the usual manually operated volume control. There is no way to install automatic volume control on your receiver without a great deal of unsatisfactory work. The circuit of the set must be designed for this form of control, and all circuits cannot use it.

Two Sets and One Speaker

I have a short wave and also a broadcast set but only one loud speaker. How can I place these two sets and the speaker in a cabinet so as to use the speaker with either one of the sets at will?

You have not stated whether your sets are battery operated or a. c. operated. And if the speaker is of the magnetic type the solution is simple. Procure a double-pole double-throw knife switch of small size. Connect the speaker leads to the two center blade contacts. Then connect the two contacts at one end of the switch to the outlets of the short wave set, and the opposite end of the switch to the outlets of the broadcast receiver. Just throw the switch to either set when it is being used.

However, if the set uses a dynamic speaker you must install two of the

double-throw double-pole switches set side by side so as to provide four blades. Connect the wires from the speaker to the center blade contacts. Two of these are from the speaker voice coil and two from the output transformer. Connect the proper four wires from the short wave set to the four terminals at one end of the two switches, and the four wires from the long wave set to the remaining four contacts. If the sets have plugs and sockets for speaker connections the work will be simplified. Some sets have only three wires, such as is found on certain Philco types. Use only three knives and contacts in such cases. The practicability of this scheme depends upon the similarity of the audio circuits of the two separate receivers.

Our Long Wave Receiver

How shall I connect a "C" battery in the long wave set that was described in the January issue of RADEX? A circular coming with the tube I bought said to use $4\frac{1}{2}$ volts C battery.

Do not use a "C" battery with the receiver described in the January RADEX for the tube acts only as a detector and does not require a negative grid bias voltage. And a C battery of $4\frac{1}{2}$ volts would be too much for the filament of a -30 tube. Use only two volts on the tube and 45 volts on the plate. A 15 ohm rheostat may be used to cut down the three volts of two dry cells to the proper two volts for the tube.

Loose Condenser Contacts

My Gloritone set gives a loud vibrating sound when a station is tuned in, and when the dial is being moved. It does not do this when the tuning operation has been completed.

We assume your set to be the model 26P chassis which is a five-tube circuit employing the -47 pentode in the last stage. We suggest that you examine the connections for loose wires on the condensers, particularly in the "pig tail" springs between the rotary parts and the frame of the variable condensers. Then look after the tubes, and have them tested. See that they fit snugly in their sockets. The shielding surrounding the tubes may be poorly caught in the socket

made for it. Clean the plates of the variable condensers with pipe cleaners which will pass easily between the plates so as to remove all large flakes of dust.

Long Wave Government Station Interferes

A Department of Commerce airways radio station nearby broadcasts frequent weather information to planes in the air. It is a great source of interference. How can I change my Airline seven-tube set so as to eliminate this source of annoyance in my radio reception?

It will be difficult to overcome this trouble. The airport station probably broadcasts on approximately 900 meters. There are harmonics which cause interference, and the nearness and power of the station create a situation that is hard to overcome. Any changes in coils or condensers in your set will be reflected in unsatisfactory reception from other distant stations. We cannot recommend any changes in wires, coils or condensers in your Airline receiver. Try shortening your aerial to about 30 feet and inserting a small fixed condenser in series with the aerial. A wave trap should be of some assistance.

Changing to Two-Volt Tubes

How can I change a Silver-Marshall model 720 receiver over to the more economical two-volt tubes, if this can be done?

The change can be made. Replace the three -22s with three -32s; the -12A with a -30; the first -71A with a -30; and the last power -71A with a power -31 tube. The present 45 volt (red-maroon) wire leading to the screen-grids of the tubes must connect to a B battery of 67.5 volts. There is a 1.5 ohm resistor in series with a wire that leads to the three filaments of the -22 tubes which must be removed and replaced with a piece of wire. Or the resistor may be short-circuited with a wire.

You must use 90 volts B battery on the plate of the detector (a black-red wire), and 4.5 volts C battery negative bias on the grid of the first audio tube (the brown wire) in place of the three volts now used. Use 90 volts instead of 135 in the plate of the first audio tube (a maroon wire).

There is a wire from the old 135-volt plate terminal post of the set which leads to plates of the present -22 tubes. This wire must be cut from other parts of the circuit. This makes a new 135 volts lead instead of being tied as at present with the maroon wire of 135 volts which must be changed to 90 volts as mentioned in the preceding paragraph. Use 22.5 volts C battery on the grid of the power (-31) tube (green wire), and 135 volts on the plate in place of the 180 volts now used. Two volts only must be applied to the A (black) positive and A (black-green) negative wires. Turn the rheostat on full way when in use.

Long Aerial

What do you think of an aerial 600 feet in length with the lead-in taken off the center?

We do not consider a 600-foot aerial practicable and necessary for broadcast reception. It might do if there were only a few broadcasting stations operating. A 50-foot aerial is much more satisfactory. The 600-foot wire would respond to natural wave lengths of lower frequencies and may be better for long-wave code reception. Its tuning would be very broad.

Battery Chargers

Are battery chargers expensive to run? What is the best type to use, and what about the generator type run with an engine?

All battery chargers cost something to operate. If one charges a battery at a rate of five amperes an hour it consumes about as much electricity as a 75-watt lamp bulb. The trickle chargers take very little current for they charge at the rate of about half an ampere an hour and take as much current as a small 10-watt bulb. The tungar tube type of charger is believed by many to be very satisfactory. At least it delivers a high rate and is relatively quiet. The magnetic type is also good but is quite noisy with a constant buzzing sound. Dry rectifier chargers of the trickle types are quiet, but are slow in their results. The generator charger with engine power is necessary when either a. c. or d. c. house sources are not available. This form of

electricity is perhaps the most expensive to create.

Installing Push-Pull Amplification

How can I change my Silver-Marshall model 720 receiver so as to use the push-pull method of power amplification?

If you wish to use push-pull amplification in the 720 set you must replace the last stage audio transformer with an output push-pull transformer with a split secondary. The two outer ends of the secondary go to the grids of two power tubes instead of the single one now used. You will also need another output transformer with a split primary to connect to the two plates of the tubes. The secondary goes to the voice coil of the speaker. Some slight changes in wiring must be made but the work is not difficult.

Answers to Inquiries

"In answer to a query by Mr. Erlbeck in the February RADEX, CKCD goes on the air every evening, except Sunday, from 8:30 to 8:50 p.m. PST, to give the news of the day," advises Fred Pheasey, 1625 Hollywood Crescent, Victoria, B. C., Can. "On Sundays, by arrangement with CKFC, the news is broadcast a few minutes before 9 p.m., depending upon the time the church service broadcast from CKFC is brought to a close. I do not think CKFC has any regular broadcast other than the Sunday services."

H. Montgomery, 215 Reifert St., Pittsburgh, Pa., sends in answers to two questions in last month's "Mill": "Tell Harry Durand that WWAP is an air station at Bettis Field in Pittsburgh. The frequency is 254 kcys. or approximately 1200 meters. Also tell Frank Claro his station was WRDO, Augusta, Maine."

"The Mexican station H. Durand heard on 1315 was XEFB, Monterrey," thinks Lester R. Reinmund, 1120 South 76th St., West Allis, Wis., who adds, "W. Scholer heard KGEK, Yuma, Colo., which broadcasts a DX program every Friday night and continuing until 1:30 a.m. Saturday, MST."

In answer to the inquiry of C. W.

Thomas as to whether WJSV is ever on the air when WLAC and KSTP are silent, C. D. Cook, 133 13th St., N. E., Washington, D. C., says: "The present broadcast period of WJSV is from 6:00 a.m. until 11:30 p.m. EST."

Kenneth Peterson, 184 Francis Ave., Pontiac, Mich., submits the following answer to a previous inquiry: For John J. Swatko, WFK is in Frankfort, Mich., and is used for broadcasting to boats and other commercial stations.

For George B. Holland: WEEU is on from sunrise to sunset EST and HIX can be heard on Wednesday between 9:00 and 9:30 p.m. EST. This information is from Ores Zoniades, 147 Steger St., Nutley, N. J.

With the Radexers

(Continued from page 22)

night on Saturday. WWAE and WBOW can be received until one on Sunday mornings. KFYZ has been testing on Sunday mornings recently and comes in with a big crash. WJTL goes late Sunday mornings. KFWI can be played for a few minutes after WPIW signs off on Sunday mornings. The former never signs off promptly, so try it sometime. WHBC comes in very loud at 6:30 a.m. weekdays."

"I recently played WHBC, the tennawatter in Canton, Ohio, and in their verification they said their hours were 6:30 a.m. to noon and 3:30 p.m. to 10:00 p.m. daily, EST," is the information that comes from James Fogarty, 143 Willins Ave., Port Chester, N. Y. "The station Mr. Scholer had was KGEK in Yuma, Colo., which broadcasts the Jack Rabbits from 11:00 p.m. to 1:00 a.m. MST, Friday nights and Saturday mornings." Mr. Fogarty wants the time on the air for WABI in Bangor, Maine.

The following tips come from T. J. Johnson, Bowlegs, Okla.: XEFB broadcasts a test program every morning except Monday on 1312 kcys. from 1:00 to 4:00 a.m. CST. Try for the Worms' Club DX program from CKCL about 2:00 a.m. CST Thursdays. KPQ has been coming in fine here every Saturday night after midnights PST. Tell your readers to address XED at Hidalgo,

Texas, if they want their letter delivered to the station.

The information given in a previous issue by Arthur Collins of Buffalo regarding the time on the air of VOWR, St. John's, Newfoundland (Sundays 11:00 a.m. to 6:30 p.m., Tuesdays and Thursdays at 8:00 p.m.) is correct says G. N. Rose, of St. John's, but the time is Newfoundland time which is an hour and a half faster than EST.

Under the new arrangement by the Commission, the following hours are given to WHAD, Milwaukee and WISN gets all those not used by WHAD: Daily, 9:30 to 10:15 a.m. and 3:00 to 4:00 p.m., Mondays, Tuesdays and Wednesdays, 8:30 p.m. to 9:00; Thursdays 8:30 to 9:30 p.m. and Fridays 8:30 to 11:00 p.m., all CST.

"I have a card from KGU in Honolulu on which they say: 'KGU broadcasts daily from 8:15 a.m. to 11:00 p.m. When it is 6:00 o'clock in Honolulu it is 8:30 PST, 9:30 MST, 10:30 CST and 11:30 EST.'" This message comes from A. J. Parfitt, 1933 East 69th St., Cleveland, Ohio.

WOPI, Bristol, Tenn., 1500 kcys., 100 watts, broadcasts a special DX program the first Wednesday of each month from 3:00 a.m. to 6:00 a.m. EST. "It's a very good program," reports W. K. Shaw, 560 Birr St., Rochester, N. Y.

WPFB, The Voice of the Pines, Hattiesburg, Miss., will have DX programs on April 16th and April 30th from midnight to 5:00 a.m., writes R. H. Seidel, 2828 Washington St., Lincoln, Nebr. We assume this means Sunday mornings and that the time is given in CST.

They Keep the Dimes

WFEA, Manchester, N. H., does not answer requests for verifications, says Wm. F. Zimmerman, Route 4, Box 57, Oshkosh, Wis. He sent them two letters with postage and two cards but no answer. What will we do with these stations that do not answer letters? Many readers have suggested a black-list, but when we publish such an item as this we always receive letters from other readers protesting that such a station verified them promptly. It's a problem.

"Don't send CMCY, Havana, Cuba, any money for verification unless you want to get stung," warns P. E. Donnelly, 901 Third Ave., Los Angeles, Calif. "I sent them 10c for verification of the Newark News Radio Club DX Special December 28th and they kept the money and never did answer."

Mail for XER for verification should be addressed to XER, P. O. Box 1083, Del Rio, Texas, says Dr. A. A. Dewey, 44 Prospect St., Bristol, Conn.

Correspondence Wanted

Particular subject or interest and age are given in parenthesis.

Wm. Frazier (16), 225 Menominee St., Chicago, Ill.

Joseph H. Ronzone (Earl 41 owners), 1847 Narragansett Ave., Bronx Heights, New York, N. Y.

H. Montgomery, 215 Reifert St., Detroit, Mich.

Arthur B. McBride, La Habra, Calif.

Thayer Bartlett, Borodino, N. Y.

Russell R. Quaintance, 720 Gibbard Ave., Columbus, Ohio.

A. Hayter, Apt. 3, Lorane Apts., 610 Ontario St., Toronto, Ont.

"Radio Reception Reporters," 6262 Fraser St., Vancouver, B. C.

Ernest Byers (Trans-Pacific DXers), 210 1/2 Maple St., Waterloo, Iowa.

George J. Barmann, 232 West Second St., Chillicothe, Ohio.

Selwyn A. Adamson, Care Canadian Press, 272 Bay St., Toronto, Ont.

The Editor's Sanctum

(Continued from page 16)

ever heard any Atlantic station," writes Blaine Menth, 1003 E. Union Ave., Olympia, Wash. "I have heard several Atlantic stations. In New York, WHAM, WJZ, WKBW, WEAF, WGY, WABC and WBZ. In Pennsylvania, KDKA and WVAU. Others I have heard are WHAS, WBT, WRVA, WOR, WTIC, WJSV, WLAC, WSM, WSB and WCKY. Does this answer the question?"

"I use for a ground a piece of water pipe," says Clarence Wakefield, Warton, Ont. "First I dug a hole and put a big tile upright in the ground. Then I drove the water pipe into the ground in the center of the tile. I put cement in the

bottom and then filled the tile with water. I have heavy electric wire for ground wire. It is spirally wound around the water pipe, up the pipe, down the pipe, up the pipe again and into the set. I have it clamped to the water pipe. It works fine."

More Outlaws

Regarding outlaw stations, Meyer Tuchinsky, 3436 Filbert St., Philadelphia, Pa., writes: "If anyone asks about a station WIRE on 830, tell them there was such a station but no more. There's another outlaw in McKees Rocks, Pa., right now, using 840 and other channels and the call is WMKR. On January 3rd, WIRE came in on 720 at 4:20 a.m., then moved to 770, then to 790 and back to 780 where he remained until 5:00 a.m. EST."

W. D. Flagg, 1005 Northampton St., Holyoke, Mass., offers a correction of the slogan given in RADEX for CMHC. Mr. Flagg states: "You give it as, 'If you hear the koo of the Cuckoo, you are in Tuinucu.' As I get it over the air repeatedly, it comes in thus: 'When you hear the coo of the Cuckoo you're in tune with Tuinucu.' Tuinucu is pronounced slowly and as if spelled 'Tune-oo-coo.'"

"For the information of all who are troubled in various ways with long and short outside aerials, let me suggest switching to the good old hot water heating system," suggests H. R. Howlett, 9 Southview Ave., Toronto, Ont. "I have a wire from the radiator to my aerial post (no ground used) and defy all comers for reception results between 500 and 1500 kcys."

A Shut-In's Club

"Would you please ask your readers to write me?" request Fred D. Fisher, 434 N. Boots St., Marion, Ind. "I am a young man 21 years old and am paralyzed in my legs and one arm. I am starting a club for cripples and shut-ins like myself. Age limit six to sixty. The name is to be 'The Shut-Ins of the World Radio Club.' Have all the shut-ins get in touch with me please. Will you give us a boost?"

"XEFD on 1020 kcys., here in Tijuana, is not yet in operation," informs J. D. Ramos, P. O. Box 5, Tijuana,

Mexico. "I called them up a few minutes ago and they told me that they were going on the air 'in two or three days.' It is rumored that Station XEFD, Tijuana, is to be financed by the Rev. Bob Schuler, of Los Angeles, who has recently been outlawed by the Federal Radio Commission."

"I use an RCA Victor R. A. E. 59 Combination," writes G. M. Rice, Belvidere, N. J., "by using a six-inch record which takes one and a half minutes to record, I take their talk and call letters at the end of the program, and then I play them whenever I wish. Received a letter from KFI in Los Angeles yesterday asking me to send them one which I had recorded from their program. Will send it out this week."

"I am using only a few feet of antenna (just about 800 feet, that's all)," writes Bruce P. Lundy, Jr., R. D. 2, Box 66, Jersey Shore, Pa. "But I have to use that much to cut down the noise I get from the high-powered lines which pass by the front of our house, and it just about does away with it entirely during the night, but I still have some trouble during the day. It sure works swell"

Wanted Reports Collect

"WAGM, Presque Isle, Maine, made a mistake the other night when they asked for phone calls 'collect,'" says Samuel F. Owens, 233 Roberts Ave., Glenside, Pa. "They got *one*, anyway. I guess that call cost them a couple of dollars, but they were both surprised and glad to get the call. They didn't think they were reaching out this far."

"On January 24th," advises Rexford Newcomb, Jr., 605 W. Nevada St., Urbana, Ill., "KGCX gave an early Sunday morning DX all-request program. When anyone phoned in a request, they put their telephone receiver in front of the 'mike' so that the listener phoning in could hear his own voice coming over the radio a fraction of a second later."

Frank E. Switalski, 2819 Victoria Ave., Cincinnati, Ohio, sends us a letter he received from Station XER which graphically illustrates the high standard of ethics which guides that broadcaster. It reads: "We doubt if WSB increases their power to 50,000 watts. If they do,

XER will increase to 150,000." Their slogan is "The Sunshine Station Between the Nations." If this be sunshine, give us darkness.

"I have noticed right along that the frequency changes and location changes that you publish are not wrong, but just previous to the actual change. In other words RADEX is so up-to-date that it is ahead of the changes," says Don Turner, Box 655, Taft, Calif.

Only Three Waves Then

"Speaking of reminiscences," reminisces T. J. Johnson, Drawer E. Bowlegs, Okla., "I dug out an old map which was the very latest in 1923. There were only three wave-lengths used by broadcasting stations then. Our local stations in Dallas were all silent on Wednesday nights to allow us to hear DX stations."

"Just a tip to the readers of RADEX," suggests Ralph H. Schiller, President, Transcontinental DX Club, Hawthorne, N. J. "If they send their reports of reception to XEQ, Eagle Broadcasting Co., Suite 1202, Mills Bldg., El Paso, Texas, this will save time and all reports of reception will be acknowledged with verification."

"I would like to join a DX club such as is run by the Newark News," suggests Rexford Newcomb, Jr., 605 W. Nevada St., Urbana, Ill., "but I could not have much chance to be a super-ace, as there's no station in the United States, Canada, Cuba or Mexico that is 2000 miles away from here."

Hungarian Programs

To the gentleman inquiring about Hungarian programs Arthur G. Regan, 120 Paris Ave., Brooklawn, Gloucester, N. J., replies as follows: "WOR has a Hungarian program at 7:30-8 p.m. EST on Wednesdays, and WDAS (formerly WELK) has a program of Hungarian songs with Hungarian orchestra at 9:45 p.m. EST Wednesdays."

The Director of Radio Service at Ottawa is good enough to advise us in answer to Rexford Newcomb's letter in February, that the mail address for CKOC is the Wentworth Radio Broadcasting Co., Ltd., Room 1120, Royal Connaught Hotel, Hamilton, Ont. It seems strange that Mr. Newcomb's

letters to Hamilton should have been returned.

WPOE, Patchogues, N. Y., is being deleted by the Radio Commission "for failure to make application for renewal of license." We are killing this station accordingly, but probably it will continue on the air "without benefit of Commission," the same as WHDL did. And WGM also.

"WJSV, about 40 miles from here, is loud and steady during the daytime, but at night it fades badly, and it uses 10,000 watts besides," reports Thomas Kelley, 27 Monumental Road, Dundalk, Md.

"In re: Chandler B. Stewart, page 23, January issue," postcards T. Kenneth Meadway, Route No. 1, Collegeville Pa., "that station with the rooster crowing is XEW, City of Mexico, 910 meters."

"KFBI sent me a very useful souvenir," says Louis Alexander, Jr., 10 South Ridgewood Ave., South Orange, N. J. But he'll have to go to Kansas to use it. It's a pass on all air lines owned, leased and operated by the owners of KFBI.

KSMR which was recently moved to Bakersfield with the call of KERN, advises F. Barker, Jr., 435 So. Marguerita Ave., Alhambra, Calif., that they have not been on the air for several weeks. We are not advised whether the new KERN is yet operating.

From Russell Heller, 42 N. 5th St., Emaus, Pa., "Tell Donald Brinkey that he heard station CMCY, Havana, on December 27th. I had this station on the 27th also and am waiting for verification."

"WHHN of Noonan, N. D., 1500 kcys., is off the air for good," advises O. Ingmar Oleson, Ambrose, N. D. "They did not obtain commercial license."

Betty's Gossip

(Continued from page 13)

time ago that they made their debut as broadcasters. In private life Burns and Allen are Mr. and Mrs. They first became acquainted nine years ago at Union Hill, N. J., when Burns was appearing in vaudeville with a partner, and Miss Allen was a member of an Irish repertoire company. His home was in

New York, while she had come from San Francisco.

They had known each other but a short time when it was decided to form the team of Burns and Allen. As he wrote the material, their original act presented him as a comedian with the feminine half in the "straight" role. However, three years found the tables reversed with George playing the "straight man" for the young lady who was now his wife. It has remained this way ever since. In addition to playing in vaudeville throughout the country, the pair have been featured in several musical shows and have made twenty or more talkie shorts. Eddie Cantor terms this act the "best comedy team in vaudeville." Burns and Allen are featured with Guy Lombardo's orchestra over the Columbia network on Mondays at 10 p.m. EST.

Getting Rid of Noise

(Continued from page 2)

the rotor plates give grating sounds and sharp bursts of static. At times the set will howl or squeal. The hair-spring contact to the rotor plates may be loose or broken; grease may be on the bearings or wiping contact points. Clean the bearings and between the plates with cotton pipe cleaners to remove the accumulation of dust. The open backs of radio sets permit the entrance of quantities of unwanted dust.

Poor shielding of the cans covering tubes and coils may be responsible for hum, howls and squeals. There must be perfect grounding of these parts to the chassis at all times. Look for loose and poorly grounded contacts in all coil brackets when loud squeals and howls appear.

Filter condensers in powerpacks of electric sets will become defective and cause crackling and sputtering sounds, and the set may fail to operate at all. The obvious remedy is replacement of the troublesome unit.

Noise and distortion may come from a defective loud speaker. A cracked diaphragm or cone, or torn and imperfectly stretched material will cause the sound to be distorted. Rattling is due

to poorly centered voice coil armatures in dynamic speakers.

Exhausted dry disc rectifiers of both A and B eliminators will cause excessive sputtering noises. Gassing storage batteries and B batteries with one or more corroded cells get very noisy and are very apt to be overlooked in the search for noise sources.

Defective Resistors

The by-pass condensers and resistances in electric sets cause sputtering and clicking noises. Open screen grid by-pass condensers cause regenerative howls. Other crackling and frying sounds (not external static) are due to imperfect contacts between parts of the system having different potentials. This will occur when resistors are broken or defective and permit the current to pass at irregular intervals. Momentary short circuits; open grid bias resistors; short circuits across dust and dirt between terminals of high voltage condensers, chokes, jacks, etc., cause loud crackling sounds. Switches, rheostats, potentiometers, volume controls, plugs, jacks, and sockets, can all become noisy.

Blocking, the starting and stopping in a receiver, may be corrected by installing new grid condensers and leaks. Motorboating, with its characteristic "putt, putt," may be due to some regenerative feedback in the audio circuit and may be remedied by reducing the plate voltage—a complicated task in many cases for the novice. Regeneration howls and squeals occur in tuned radio frequency sets when the neutralizing condensers and coils get out of adjustment or repair.

Fluctuation in the 110-volt line voltage can cause annoying clicks in some sets when the receiver is tuned to high frequencies. Voltage surges and other interference noises can be eliminated by placing a pair of low resistance choke coils in each of the two wires leading to the set. Two fixed condensers of 1 mfd. capacity are connected in series between the two power wires but on the house side of the choke coils. A wire connecting the yoke between the two series condensers should be grounded. Such a compact filter device can be purchased and easily installed.

There are a number of devices sold to aid in noise suppression when that trouble is not caused by defective parts within the receiver. An aerial filter is said to prevent static noises and some interference; a tone control tunes out some of the unwanted stations and noises; an antenna adjusting coil assists tuning and checks some static; power line filters eliminate many of the line noises and interferences that enter the set over the lighting circuits; antenna selecting devices reduce interference between stations; substitute antennas tend to sharpen tuning; and special adapters for the new pentode tubes improve the qualities of reception by preventing many amplification noises.

Noise within a broadcast receiver due to defects and faulty apparatus cannot be overcome with these auxiliary devices, many of which have distinctive trade names that we cannot give here. Location, repair and replacement is the only remedy. And *hum*—the most baffling and annoying of all radio noises—is such an important subject that it will be the topic of separate article to be discussed next month.

Station KUKU

(Continued from page 6)

conducted a symphonic jazz orchestra and in this capacity one of his most remarkable accomplishments was an orchestration of "Yes, We Have No Bananas," which converted that lowly ditty into Ravel's Bolero.

Fluttering, palpitating, syrupy Mrs. Pennyfeather, who can solve anything from wrinkles to floor polish with perfect poise was perfected by Adeline Thomason through much experience in a stock company. Miss Thomason writes her own parts relating to the too-nice club woman and her ups and downs.

Mary McCoy is an excellent singer, appearing on many other programs. She sings on the American Album of Familiar Music program and was formerly on the Campbell's Soup Hour. Jack Arthur has sung for WOR as well as NBC. Eustice Wyatt is an English actor of wide experience.

* * *

"Making the Movies," a weekly series

of burlesque sketches dealing with events in a moving picture studio as imagined by Ray Knight, can be heard every Sunday at 9:45 p.m. EST over an NBC-WJZ network. Knight, already well known to listeners as the cuckoo comedian of nonsense and absurdity, prepares the scripts and plays the role of the moving picture director who "makes the movies." Mary McCoy, also of the cuckoos, is heard as the "movie star." Robert Armbruster and his orchestra supplies the musical numbers. This new program is sponsored by the Kelly-Springfield Tire Company.

On a Two Tube Set

(Continued from page 3)

tubes, I have constructed it with the best of care, and I find it more sensitive than that of the factory type. The circuit is one especially for DX reception; others may say that reception from far corners of the world is done by multi-tube receivers. This may be true, but from my own DXing I find that it is also done by a good little set, careful DXing, and use of RADEX.

Their Time On the Air

Your Zone	Where Time is Given as			
	EST	CST	MST	PST
EST	.....	Add 1 hr.	Add 2 hrs.	Add 3 hrs.
CST	Subt. 1 hr.	.....	Add 1 hr.	Add 2 hrs.
MST	Subt. 2 hrs.	Subt. 1 hr.	.....	Add 1 hr.
PST	Subt. 3 hrs.	Subt. 2 hrs.	Subt. 1 hr.	.....
<i>State</i>	<i>City</i>	<i>Call</i>	<i>Keys.</i>	<i>Watts</i>
California	Berkeley	KRE	1370	100
	Sunday, 10 a.m.-4 p.m.; 6:45-9:45 p.m., PST.			
	Daily, 8-9 a.m.; 12-3 p.m.; 6-9 p.m.			
Iowa	Boone	KFGQ	1310	100
	Special DX program, Tuesdays, 4-5 a.m., CST.			
	Red Oak	KICK	1420	100
	Daily (ex. Sunday) 6 a.m.-1 p.m.; 5-10 p.m., CST.			
Maryland	Baltimore	WBAL	1060	10000
	Sunday, 8 a.m.-7:30 p.m., EST.			
	Monday, Wednesday, Friday, 7:30 a.m.-4 p.m.			
	Tuesday, Thursday, Saturday, 4-12 mid.			
Michigan	Lamper	WMPC	1500	100
	Daily (ex. Saturday) 10 a.m.-2 p.m.; 3:30-6 p.m.; 7:30-10:30 p.m., CST.			
	(Sundays on till 11 p.m.; Thursdays off at 6 p.m.)			
Montana	Kahispel	KGEZ	1310	100
	Daily, 8 a.m.-9 p.m., MST.			
New Jersey	Zarephath	WAWZ	1350	250
	Sunday, 6-9 a.m.; 11-12:30 p.m.; 7:30-9 p.m., EST.			
	Monday, 6-9 a.m.; 7:30-9 p.m.			
	Tuesday, 7:45-8:45 a.m.; 12 n.-1:30 p.m.; Test program 5-6 a.m.			
	Wednesday, 6-9 a.m.; 3-4 p.m.; 6-9 p.m.			
	Thursday, 6-9 a.m.; 3:50-5:30 p.m.; 10:30-12 mid.			
	Friday, 6-9 a.m.; 7:30-8:30 p.m.			
	Saturday, 7:45-8:45 a.m.			
North Dakota	Minot	KLPM	1240	250
	Sunday, 9 a.m.-12 n.; 1:30-2:30 p.m.; 5-8 p.m., CST.			
	Daily, 7 a.m.-1 p.m.; 6-7:45 p.m.			

State	City	Call	Kcys.	Watts
Texas	College Station	WTAW	1120	500
	Sunday, 11 a.m.-12 n., CST.			
	Mon., Wed., Fri., 11 a.m.-12 n.; 8-9 p.m.			
Wisconsin	Green Bay	WBHY	1200	100
	Sunday, 10 a.m.-8 p.m., CST. Daily, 7 a.m.-10 p.m.			
CANADA				
British Columbia	Vancouver	CKFC	730	50
		VE9CS	6070	100
	Sunday only, 10:45 a.m.-5:30 p.m.; 7:30-9 p.m., PST.			
	(VE9CS on till 10:30 p.m.)			
Nova Scotia	Halifax	VCX	690	100
	Daily, 8 a.m.-1:30 p.m. AST. (Atlantic time is one hour ahead of Eastern.)			
Newfoundland	St. Johns	VOAS	810	75
	Daily (ex. Sunday) 11 a.m.-12 n.; 4-5:30 p.m., Newfoundland time.			
	(Saturdays also on from 7:45-9:30 p.m.)			
	(Newfoundland time is 1½ hours ahead of Eastern.)			
Reported by Readers				
Alabama	Birmingham	WBRC	930	500
	Sunday, 10 a.m.-11:30 p.m., CST.			
	Daily, 7 a.m.-11 p.m.			
Dist. of Col.	Washington	WOL	1310	100
	Daily, 7 a.m.-1 p.m.; 3-9 p.m., EST.			
Florida	Pensacola	WCOA	1340	500
	Daily, 8:30 a.m.-10 p.m., CST.			
	Tampa	WDAE	1220	1000
	Daily, 8 a.m.-12 mid., EST.			
Illinois	Chicago	WAAF	920	500
	Daily, 6 a.m.-local sunset, CST.			
		WGES	1360	500
	Sunday, 8-10:15 a.m.; 11:45 a.m.-1 p.m.; 3:30-7 p.m.; 11 p.m.-2 a.m., CST.			
	Saturday, 8:30-11 a.m.; 3:30-7 p.m.; 11 p.m.-2 a.m.			
	Balance of week, 8:50-11 a.m.; 3:30-8 p.m.			
	Urbana	WILL	890	250
	Sunday, 9:30-10:30 a.m., CST.			
	Saturday, 11 a.m.-12:15 p.m.			
	(First Saturday night of each month, 12 mid.-2 a.m.)			
	Balance of week, 8-9 a.m.; 11 a.m.-12:15 p.m.; 5-6 p.m.			
	Zion	WCBD	1080	5000
	Sunday, 8:30-10:45 a.m.; 2:30-3:45 p.m., CST.			
	Tuesday, 1-1:30 p.m. Thursday, 1:30-3 p.m.			
Massachusetts	Worcester	WORC	1200	100
	Daily, 8:45 a.m.-12 mid., EST.			
Minnesota	Northfield	KFMX	1250	1000
	Sunday, 7-8 p.m., CST.			
	Daily, 10:15-10:35 a.m. (Wed. and Fri., 8-9 p.m.)			
		WCAL	1250	1000
	Sunday, 8:15-9:30 a.m.; 3-4 p.m., CST.			
	Daily, 9:45-10:15 a.m. (Monday, 8-10 p.m.)			
	St. Paul	WLB	1250	1000
	Monday, 12:30-1 p.m.; 7-8 p.m., CST.			
	Tuesday and Thursday 8-9 p.m.			
	Wednesday, 10:35-11:30 a.m.; 12:30-1 p.m.			
	Friday, 12:30-1 p.m.; 4-5 p.m.			
New Jersey	Camden	WCAM	1280	500
	Sunday, 10:15 a.m.-12:30 p.m., EST.			
	Monday, 11:30 a.m.-12 n.; 2-5 p.m.; 8-12 mid.			
	Tuesday and Thursday, 2-5 p.m.			
	Wednesday, 11:30 a.m.-12 n.; 2-5 p.m.			
	Friday, 11:30 a.m.-12 n.; 2-5 p.m.; 9-12 mid.			
New York	Ithaca	WEAI	1270	1000
	Daily, ex. Sunday, 12 n.-1 p.m., EST.			
	Daily, ex. Saturday and Sunday, 5-6 p.m.			
	Utica	WIBX	1200	100
	Sunday, 10:50 a.m.-9 p.m., EST.			
	Daily, 7 a.m.-10:30 p.m.			
Oregon	Eugene	KORE	1420	100
	Sunday, 10 a.m.-9 p.m., PST.			
	Daily, 7:45 a.m.-9 p.m.			
Pennsylvania	York	WORK	1000	1000
	Daily, 6 a.m.-6:45 p.m., EST.			
Vermont	Burlington	WCAX	1200	100
	Daily, ex. Sunday, 12 n.-1 p.m., EST.			
	Monday, Wednesday, Fri., 6-9 p.m.			
CUBA				
	Havana	CMC	842	500
	Daily (ex. Tuesday and Saturday), 7-11 p.m., EST.			
		CMCD	925	250
	Daily, 12 n.-3 p.m.; 9 p.m.-12 mid., EST.			
	(Saturday on from 11:30 p.m.-3 a.m.)			

Classified Index to Programs

Time in Eastern Standard

BANDS

Carborundum, 9 p.m., Saturday.
Pryor's, 9 p.m., Saturday.

CHILDREN

Lady Next Door, 4:30 p.m., Daily, except Sunday.
Orphan Annie, 5:45 and 6:45 p.m., Daily, except Sunday.
Raising Junior, 6 p.m., Daily, except Wednesday.
Skippy, 5:15 p.m., Daily, except Sunday.

CONCERTS

Howard Barlow, 11 p.m., Daily, except Sat. and Sun.
Major Bowes, 11:30 a.m., Sunday.
Cities Service, 8 p.m., Friday.
Civic Concert, 8 p.m., Saturday.
Davey Tree, 4:30 p.m., Sunday.
Walter Damrosch 1 p.m., Sunday, and 11 a.m., Friday.
Familiar Music, 9:15 p.m., Sunday.
Golden String, 10:15 p.m., Sunday.
L'Heure Exquise, 7 p.m., Sunday.
Walter Logan, 1:45 p.m., Sunday.
Old Singing Master, 10:15 p.m., Sunday.
Waldorf-Astoria, 6 p.m., Daily, except Sunday.

DANCE BANDS

Gus Arnheim, 12 mid., Tuesday.
Ben Bernie, 9 p.m., Tuesday, 12 mid., Monday and Friday.
Columbian, 10 p.m., Monday.
Coon-Sanders, 12 mid., Wed., Thurs., Fri., Sat.
Countess d'Orsay, 8:30 p.m., Saturday.
Jack Denny, 9 p.m., Sunday.
Eddie Duchin, 12 mid., Wednesday and Sunday.
Happy-Rose Orchestra, 10 p.m., Tues., Wed. and Sat.
Isham Jones, 12:30 a.m., Saturday.
Wayne King, 3 p.m., Sunday and 5:30 p.m., Wednesday.
Howard Lannin, 7:15 p.m., Daily, except Sat. and Sun.
Baron Lee Orchestra, 11:45 p.m., Monday and Thursday.
Guy Lombardo, 8:15 and 10 p.m., Monday; 12 mid. Thursday; 7:30 p.m., Saturday.
Vincent Lopez, 11:30 p.m., Wednesday; 11 p.m., Friday.
Lucky Strike, 10 p.m., Tuesday, Thursday, Saturday.
Abe Lyman, 8:15 p.m., Tuesday, Thursday, Saturday.
Maytag, 9 p.m., Monday.
Geo. Olsen, 11:30 p.m., Tuesday, Thursday, Friday.
Don Redman, 11:15 p.m., Sat.; 11:30 p.m., Wed.
Joe Reichman, 12:30 a.m., Friday.
Freddie Rich, 7:15 p.m., Tuesday.
Buddy Rogers' Orchestra, 12 mid., Tues.; 11:30 p.m., Sat.
Noble Sissle, 12:30 a.m., Monday.
Harold Stern, 6:15 p.m., Wednesday.
Rudy Vallee, 8 p.m., Thursday.
Club Valspar, 9:30 p.m., Saturday.
Paul Whiteman, 10 p.m., Friday.

DIALOG

Amos 'n' Andy, 7 p.m., and 11 p.m., Daily, except Sunday.
Big Time, 8 p.m., Wednesday.
Clara, Lu and Em, 10:15 a.m., Daily, except Sat. and Sun.
Phil Cook, 8:15 and 9:15 a.m., Daily, except Sunday.
Easy Aces, 7:30 p.m., Mon., Wed. and Fri. (9:30 WGN).
Gene and Glenn, 8 and 9 a.m., Daily, except Sunday.
The Goldbergs, 7:45 p.m., Daily, except Sunday.
Jones and Hare, 7:45 p.m., and 12:30 a.m., Daily, except Saturday and Sunday.
KUKU Club, 5:30 p.m., Saturday.
Making Movies, Ray Knight, 9:45 p.m., Sunday.
Myrt and Marge, 7 and 10:45 p.m., Daily, except Saturday and Sunday.
O'Leary Irish Minstrels, 7 p.m., Saturday.
Ray Perkins, 6:30 p.m., Tuesday.
Real Folks, 5 p.m., Sunday.
Royal Vagabonds, 6:30 p.m., Monday, Wednesday, Friday.
Sinclair Weiner Minstrels, 9 p.m., Saturday.

Sisters of Skillet, 8:45 p.m., Tuesday, Thursday, Friday.
Stebbins Boys, 7:30 p.m., and 12:45 a.m., Daily, Except
Saturday and Sunday.
Col. Stoopnagle and Budd., 8:45 p.m., Sun., Mond., Wed.
Tastycast Jesters, 7:15 p.m., Monday and Saturday.
Three Bakers, 7:30 p.m., Sunday.

DRAMATIC

Arabesque, 9 p.m., Monday.
Blue Coal Revue, 5:30 p.m., Sunday.
Canada's Mounted, 10 p.m., Monday.
Careless Love, 12:30 p.m., Sunday.
Crime Club, 9:30 p.m., Tuesday and Wednesday.
Danger Fighters, 8 p.m., Saturday.
Death Valley, 8:30 p.m., Monday.
First Nighter, 9:30 p.m., Saturday.
Friendship Town, 9 p.m., Friday.
Household Finance, 9 p.m., Tuesday.
"K-7," 6:30 p.m., Sunday.
Love Story, 9:30 p.m., Thursday.
Moonshine and Honeysuckle, 2:30 p.m., Sunday.
Rin-Tin-Tin, 8:15 p.m., Thursday.
Sherlock Holmes, 9 p.m., Wed.; 9:30 p.m., Thurs.; 12 mid.
Mon.
Silver Flute, 1:30 p.m., Sunday.
Soconyland, 8 p.m., Monday.
Today and Yesterday, 8:30 p.m., Friday.
True Story, 8:30 p.m., Tuesday.

ORGAN

Jesse Crawford, 11:15 p.m., Wed., 11:30 p.m., Sun., Mon.;
11 p.m., Tues., Thurs., Sat.
Ann Leaf, 3 and 9:30 p.m., Sun.; 3:15 and 9:30 p.m., Wed.
Melo-Clarion Twins, 8:15 p.m., Wednesday.

PIANO

Fray-Braggiotti, 8 p.m., Saturday.
Ernest Hutcheson, 10:45 p.m., Sunday.

POPULAR PROGRAMS

A. & P. Gypsies, 9 p.m., Monday; 10 p.m., Thursday.
Armour Program, 9:30 p.m., Friday.
Beau Bachelor, 10 p.m., Friday.
Big Six, 9 p.m., Thursday.
Bright Spot, 2:15 p.m., Sunday.
Buick Revelers, 9:45 p.m., Sunday.
Chase & Sanborn, 8 p.m., Sunday.
Clicquot Club, 9 p.m., Friday.
Coca Cola, 10 p.m., Wednesday.
Collier's Hour, 8:15 p.m., Sunday.
Contented Program, 8 p.m., Monday.
Enna Jettick, 8 p.m., Sunday.
Evening in Paris, 9:30 p.m., Monday.
Farm and Home, 12:30 p.m., Daily, except Sunday.
Friendly Five, 9:45 p.m., Friday.
Jack Frost, 8:30 p.m., Wednesday.
Prostilla Rehearsal, 9:15 p.m., Monday.
Fuller Man, 9:30 p.m., Tuesday.
Funnyboners, 10:45 p.m., Tuesday and Friday.
The Gauchos, 11:30 p.m., Sunday.
G.E. Circle, noon Daily, except Saturday and Sunday.
Gerardine, 8:45 p.m., Tuesday.
Gold Medal, 9 p.m., Wednesday.
Goodyear, 8:30 p.m., Wednesday; 9 p.m., Saturday.
Hind's Romance, 7:15 p.m., Thursday.
Edna Wallace Hopper, 10 p.m., Sunday.
International Revue, 10:30 p.m., Sunday.
Luden's Novelty, 7:30 p.m., Sunday.
Manhattan Serenaders, 7:15 p.m., Thursday.
Maxwell House, 7:15 and 11:15 p.m., Mon., Wed., Fri;
9:30 p.m., Thursday.
McKesson Magazine, 9 p.m., Tuesday.
Mobiloil, 9:30 p.m., Wednesday.
Music That Satisfies, 10:30 p.m., Mon., Tues., Thurs., Fri;
10 p.m., Wed. and Sat.
Nestle's Program, 8 p.m., Friday.
Parade of States, 9:30 p.m., Monday.
Pennzoil Parade, 8 and 11:30 p.m., Sunday.
Pillsbury Pageant, 9 p.m., Friday.
Pond's Program, 9:30 p.m., Friday.

Reis & Dunn, 6:15 p.m., Tuesday and Thursday
RKO Theatre, 10:30 p.m., Friday.
San Felice, 9:45 p.m., Monday and Wednesday.
Sheaffer Revue, 4:30 p.m., Sunday.
Simoniz Guardsmen, 5:30 p.m., Sunday.
Smith Bros., 8:30 p.m., Friday; 9:30 p.m., Saturday.
Society's Playboy, 10:30 p.m., Wednesday.
Sylvanians, 7:45 p.m., Wednesday.
To the Ladies, 9:30 p.m., Friday.
Trumpeters, 10 p.m., Thursday.
Voice of Thousand Shades, 10 p.m., Tuesday.
Waves of Melody, 10:30 p.m., Monday and Friday.
Willys-Overland, 7 p.m., Sunday.
Yardley Program, 2 p.m., Sunday.
Yeast Foamers, 2:30 p.m., Sunday.

QUARTETTES

Bayuk Stags, 9:15 p.m., Sunday.
Four Clubmen, 8:30 p.m., Monday.
Dixie Spirituals, 8 p.m., Thursday.
Eton Boys, 6 p.m., Sunday.
Heel Huggers, 8:30 p.m., Tuesday.
Lumber Jacks, 7 p.m., Monday and Thursday.
Mills Brothers, 9 p.m., Monday and Thursday.

RELIGIOUS

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

SINGERS

Ben Alley, 11:45 a.m., Daily, except Wed., Sat., Sun.
Belle Baker, 9 p.m., Sunday.
Irene Beasley, 9:15 p.m., Thursday; 6 p.m., Sunday.
Connie Boswell, 6 p.m., Wednesday; 5:45 p.m., Saturday.
Boswell Sister, 10:30 p.m., Monday and Thursday.
Bing Crosby, 6:45 p.m., Mon., Wed., Fri.; 11:45 p.m.,
Thurs.
Vaughn de Leath, 6:15 p.m., Monday; 8:45 p.m., Saturday.
Morton Downey, 7:45 and 11:30 p.m., Daily, except Sun.
Ruth Eitting, 10:00 p.m., Wednesday and Saturday.
Sylvia Froos, 7:30 p.m., Tuesday and Thursday.
Alex Gray, 10:30 p.m., Tuesday and Friday.
Tito Guizar, 11:30 p.m., Sun.; 5 p.m., Thurs.; 9:30 p.m.,
Friday.
Elsie Janis, 7:15 p.m., Wednesday and Friday.
Arthur Jarrett, 10:45 p.m., Thursday and Saturday.
Alice Joy, 7:30 and 11:15 p.m., Daily, except Sunday.
Modern Male Chorus, 10:15 p.m., Tuesday.
Pickens Sisters, 10:45 p.m., Daily, except Sat. and Sun.
Salon Singers, 7 p.m., Friday.
Sanderson-Crumit, 8 p.m., Tuesday; 9 p.m., Thursday.
Singing Sam, 8:15 p.m., Monday, Wednesday and Friday.
Kate Smith, 8:30 p.m., Mon., Tues., Wed., Thurs.
Sons of Eli, 2 p.m., Sunday.
Street Singer, 10:45 p.m., Mon., Wed.; 12:45 p.m., Sun.;
9 p.m., Fri.
Lawrence Tibbett, 8:30 p.m., and 11:30 p.m., Monday.

TALKS

Believe It or Not, 7:15 p.m., Wednesday and Friday.
Halsey-Stewart, 9 p.m., Wednesday.
Hoosier Editor, 8:30 p.m., Saturday.
Kaltenborn, 6 p.m., Monday.
David Lawrence, 9 p.m., Sunday.
Angelo Patri, 8:45 p.m., Sunday and Thursday.
Great Personalities, 9:30 p.m., Tuesday.
Political Situation, 7 p.m., Saturday.
Public Affairs, 10:15 p.m., Saturday.
Radio in Education, 7 and 8:30 p.m., Saturday.
Nellie Revell, 11 p.m., Wednesday.
Safeguard Society, 7:15 p.m., Saturday.
Margaret Santry, 8 p.m., Daily, except Sat. and Sun.
Lowell Thomas, 6:45 p.m., Daily, except Sat. and Sun.
Travelog, 4 p.m., Sunday.
Count Von Luckner, 9:30 p.m., Sunday.

WHAT'S ON THE AIR TONIGHT?

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

COLUMBIA (C).....WABC

NATIONAL, Red (R)....WEAF

NATIONAL, Blue (B)....WJZ

Call	Dial	Call	Dial

Call	Dial	Call	Dial

Call	Dial	Call	Dial

MONDAY

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

WBEN WCAE WCSH WEAF WEEI
WFI WFLA WGY WIS WJAR WJAX
WPTF WRC WRVA WSAI WTAG
WTAM WTIC WVV WWCN

E-8:15 a.m., C-7:15, M-6:15, P-5:15
B — Phil Cook, Quaker Man
KDKA WBAL WBZA WGAR WJR
WJZ WLW

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

CFCE CKGW KPRC WAPI WBEN
WCAE WCFL WCKY WCSH WDAF
WEAF WEEI WFBR WFI WFLA
WGY WHAS WIOD WPI WJAR
WJAX WJDX WKY WOA WOV
WPTF WRC WRVA WSB WSM
WSMB WTAG WTAM WTIC WWJ

E-9:00 a.m., C-8:00, M-7:00, P-6:00
R — Gene and Glenn

KFYR KPRC KSD KSTP KVOO
WAPI WDAF WDAY WEBC WFAA
WHAS WHO WIBA WJDX WKY WLS
WMC WOA WOC WOV WSB WSM
WSMB WTAM WTMJ

E-9:15 a.m., C-8:15, M-7:15, P-6:15
B — Phil Cook, Quaker Man

KFYR KOIL KPRC KTHS KVOO
WDAY WEBC WFLA WIBA WIOD
WIS WJDX WKY WLS WMC WOA
WREN WSB WSM WSMB WTMJ

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

KDKA KFYR KOA KOIL KPRC
KSL KVOO KWK WAPI WBAL
WBAP WDAY WEBC WFLA WGAR
WHAM WHAS WIBA WIOD WIS
WJAX WJDX WJR WJZ WKY
WMAQ WMC WOA WPTF WREN
WRVA WSB WSM WSMB WTMJ
WWNC

E-11:45 a.m., C-10:45, M-9:45, P-8:45
C — Ben Alley, Tenor

CFRB KDYL KFH KFJF KLZ KMBC
KMOX KOH KSCJ K TSA KVR
WABC WACO WBCM WB WCAH
WCAO WCAU WDBO WDRG WEAN
WFBL WHEC WHP WIP WISN
WJAS WKBN WKBW WLAP WLWB
WLBZ WML WMT WNC WOKO
WORC WPG WQAM WREC WSPD
WTAQ WTAR WTOC WVVV WXYZ

E-12:00, C-11:00, M-10:00, P-9:00
R — General Electric Circle

KFI KFSD KFYR KGO KGW KHQ
KOA KOMO KPRC KSD KSL KSTP
KTAR KTHS KVOO WAPI WBEN
WCAE WCSH WDAF WDAY WEAF
WFLA WEEI WENR WFAA WFBR
WFCB WGY WIBA WIOD WIS
WJAR WJAX WJDX WKY WLIT

WMC WOA WOV WPTF WRC
WRVA WSAI WSB WSM WSMB
WTAG WTAM WTIC WTMJ WWJ

E-12:30 p.m., C-11:30, M-10:30, P-9:30
B — Farm and Home Hour

KDKA KFYR KOA KOIL KPRC
KSTP KTHS KVOO KWK KYW
WAPI WBAL WBZA WCKY WDAF
WDAY WEBC WFLA WGAR WHAM
WHAS WHO WIBA WIOD WJAX
WJDX WJR WJZ WLW WMC WOC
WOW WPTF WRC WREN WRVA
WSB WSM WSMB

E-4:30 p.m., C-3:30, M-2:30, P-1:30
R — Lady Next Door

WBEN WCSH WEAF WEEI WENR
WFBR WJAR WRC WTAG WTAM
WWJ

E-5:15 p.m., C-4:15, M-3:15, P-2:15
R — Skippy, Children's Program

WBEN WCAE WCSH WEAF WEEI
WFBR WGY WJAR WLIT WRC
WSAI WTAG WTAM WTIC WWJ

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

WBAL WFLA WGAR WHAM WIOD
WJAX WJZ WLW WPTF WRVA

E-6:00 p.m., C-5:00, M-4:00, P-3:00
B — Raising Junior, See Sunday.

R — Waldorf-Astoria Orchestra
CKGW KFSD KGO KSD KSL WAPI
WCAE WEAF WEEI WENR WFI
WHAS WIOD WIS WJDX WKY
WRC WSM WTAM
C — Current Events, Kaltenborn
KFH KFJF KOH KRLL KSCJ KTRH
KVR WAAB WABC WACO WADC
WBT WDAE WDBO WDRG WFBL
WHP WKRC WLAP WLWB WLWZ
WML WOKO WORC WQAM WREC
WSPD WTAQ WTAR WTOC

E-6:15 p.m., C-5:15, M-4:15, P-3:15
C — Vaughn de Leath

KFYR KOH KRLL KSCJ KVR
WAAB WABC WACO WADC WBRG
WBT WCAO WDAE WDBO WDRG
WFAN WFBL WGR WHEC WHK
WHP WIP WISN WLWB WLWZ
WML WOKO WORC WQAM WREC
WSPD WTAQ QTR WTOC WVVV

E-6:30 p.m., C-5:30, M-4:30, P-3:30
B — Royal Vagabonds, Ward Wilson

KOIL KWK WAPI WBAL WHAM
WHAS WJZ WLW WMAQ WOA
WREN WSB WTMJ

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

CFRB KFAB KFH KFJF KLZ KMOX
KOH KRLL KVR WAAB WABC
WACO WADC WBBM WBCM WBIG
WBRG WBT WCAH WDBJ WDOD
WDSU WFAN WFBL WFBM WGL
WHEC WHP WIP WISN WJAS

WBEN WKBW WLAC WLAP WLWB
WLBZ WMT WOKO WQAM WREC
WSBT WTAQ WTOC WVVV

B — Lowell Thomas, Literary Digest

KDKA WBBL WBZA WHAM WJZ
WLW

B — Little Orphan Annie

KFYR KOIL KPRC KSTP KWK
WDAY WEBC WENR WKY WOA

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

KMOX WABC WADC WCAO WCAU
WDRG WFBL WGR WJAS WKRC
WML WNC WOKO WSPD WVVV

R — Vermont Lumber Jacks

WBEN WCAE WCSH WEAF WEEI
WENR WFBR WGY WJAR WLIT
WSAI WTAG WTIC WWJ

B — Pepsodent, Amos 'n' Andy

CFCE CKGW KDKA WBAL WBZA
WCKY WFLA WGAR WHAM WIOD
WJAX WJR WJZ WLW WPTF WRC

E-7:15 p.m., C-6:15, M-5:15, P-4:15
C — Maxwell House Program

WABC WADC WBT WCAO WCAU
WDAE WDBJ WDBO WDRG WEAN
WFBL WGR WJAS WKRC WML
WNAC WOKO WQAM WSPD WTAR
WTOC

R — Campbell, Howard Lannin Orch.

CFCE CKGW WBEN WCSH WDAF
WEAF WENR WFBR WGY WJAR
WJAR WLIT WOC WOW WRC WSAI
WTAG WTAM WWJ

B — Tastyest Jesters

KDKA WBAL WBZA WCKY WGAR
WJZ WREN

E-7:30 p.m., C-6:30, M-5:30, P-4:30
C — Easy Aces

KMBC KMOX WABC WCAO WCCO
WFBM WGR WJK WJAS WKRC
WML WNAC WOKO WCAU
R — Prince Albert, Alice Joy

KECA KFYR KGA KJR KOA KPO
KSL KSTP KTAJ WBEN WCSH
WDAF WDAY WEAF WEBC WEEI
WFBR WFLA WGY WIBA WIOD
WIS WJAE WJAX WKY WLIT
WOAI WPTF WRC WRVA WSAI
WTAG WTAM WTMJ WWJ WWNC
B — Swit, Stebbins Boys

KOIL KSTP KWK WBAL WBZA
WENR WFAA WGAR WHAM WJZ
WKY WMC WOA WREN WSB
WSM WSMB

E-7:45 p.m., C-6:45, M-5:45, P-4:45
C — Camel, Morton Downey

KFH KFJF KLRA KMBC KMOX
KRLL KSCJ KTRH WABC WACO
WADC WBIG WBRG WBT WCAH
WCAO WCAU WCCO WDAE WDBJ
WDBO WDOD WDRG WDSU WEAN
WFBL WFBM WGR WGST WHEC
WHK WHP WIBW WISN WJAS
WKRC WLAC WLAP WLWZ WML
WMT WNAC WNAX WNOX WOKO

Monday—Continued

WORC WQAM WRBC WSPD WTAR
WTOC WWVA WXYZ

R—The Goldbergs
WBEN WCAE WCSH WDAF WEAF
WENR WGY WHO WJAR WOC
WOW WSAI WTAM WWJ

B—Jones and Hare
KDKA KOIL KPRC KWK WBAL
WFAA WFLA WGR WHAM WHAS
WIS WJAX WJDX WJZ WKY WMAQ
WMC WPTF WREN WSB WSM
WSMB WWNC

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C—Bath Club, Margaret Santry
KMBC KMOX WABC WADC WCAO
WCAU WCCO WDRS WEAN WFBL
WFBM WGN WGR WGST WHK
WISN WJAS WKRC WMAL WNAC
WOKO WSPD WXYZ

R—Soconyland Sketches
WBEN WCSH WEEL WGY WJAR
WTAG WTIC WEAF

B—The Contented Program
CKGW KOIL KPRC KWK KYW
WBAL WCKY WDAY WFLA WHAS
WIBA WIOD WJAX WJR WJZ
WREN WRVA WSB WTMJ WWNC

E-8:15 p.m., C-7:15, M-6:15, P-5:15
C—Singin' Sam, Barbasol Man
KMBC KMOX WABC WADC WCAO
WCAU WCCO WDRS WEAN WFBL
WFBM WGN WHK WJAS WKWB
WKRC WMAL WNAC WOKO WSPD

C—Guy Lombardo and Orchestra
KLRA WBIG WBRC WBT WDAE
WDBJ WDBO WDOD WDSU WFIW
WGST WLAC WODX WPG WQAM
WREC WTAR WTOC

E-8:30 p.m., C-7:30, M-6:30, P-5:30
C—La Palma, Kate Smith
KMBC KMOX WABC WADC WBCB
WCAH WCAO WCAU WCCO WFBL
WFBM WGN WGR WHC WHK
WISN WJAS WKRC WLAP WMAL
WSPD WXYZ

C—Four Clubmen, Quartette
KSCJ WAAB WBCB WDAE WDRS
R—Firestone, Lawrence Tibbett
CFCF CKGW KPRC KSD KTHS
KVOO WBEN WCAE WCSH WDAF
WEAF WEEL WFAA WFBR WFLA
WGY WHAS WHO WIOD WIS
WJAR WJAX WJDX WKY WLIT
WMAQ WMC WOAI WOC WOV
WRC WRVA WSAI WSB WSM
WSMB WTAG WTAM WTIC WWJ

B—Death Valley Days
KDKA KFI KFSB KFJR KGO
KGW KHQ KOA KOIL KOMO
KSL KSTP KTRR KWK WBAL
WBZA WCKY WEBC WGAR WHAM
WIBA WJZ WLS WREN

E-8:45 p.m., C-7:45, M-6:45, P-5:45
C—Col. Stoppang and Budd
CFRB KMBC KMOX WABC WADC
WCAO WCAU WDRS WEAN WFBL
WGN WGR WHK WJAS WNAC
WOWO WSPD WXYZ

E-9:00 p.m., C-8:00, M-7:00, P-6:00
C—Vapex, Mills Bros.
KMBC KMOX WABC WADC WCAO
WCAU WDRS WEAN WFBL WGN
WHK WJAS WKWB WKRC WMAL
WNAC WOKO WOWO WSPD WXYZ
C—Arabesque, Desert Play
WBCB WBRC WBT WDAE WDBO
WQAM WREC WTAR WTOC

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

B—Maytag Orchestra
KDKA KFI KFJR KGO KGW
KHQ KOA KOMO KPRC KSL KSTP
KVOO KWK WBAL WBZA WDAY
WEBC WFAA WGAR WHAM WJR
WJZ WKY WLS WMC WOAI WREN

E-9:15 p.m., C-8:15, M-7:15, P-6:15
C—Frostilla Broadcast Rehearsal
CFRB KMOX WABC WADC WCAO
WCAU WDRS WEAN WFBL WGN
WJAS WKWB WKRC WMAL WNAC
WOKO WOWO WRR WSPD WXYZ

E-9:30 p.m., C-8:30, M-7:30, P-6:30
C—Bourjois, Evening in Paris
KMBC KMOX WABC WADC WBT
WCAO WCAU WEAN WFBL WGN
WHC WHK WJAS WKWB WKRC
WMAL WMT WNAC WOWO WSPD

R—Parade of the States
KFI KFJR KGO KGW KHQ KOA
KOMO KPRC KSD KSL KSTP
WBEN WCAE WCSH WDAF WEAF
WEEL WENR WFAA WGY WHAS
WHO WJAR WJAX WKY WLIT
WMC WOAI WOC WOW WRC
WSAI WSB WSM WTAG WTAM
WTIC WTMJ WWJ

B—Story of Women's Names
KOIL KWK WBAL WGAR WHAM
WJR WJZ WLW WREN KYW

E-9:45 p.m., C-8:45, M-7:45, P-6:45
B—San Felice, Bob Nolan
KDKA KOIL WBAL WGAR WHAM
WJR WJZ WMAQ WREN

E-10:00 p.m., C-9:00, M-8:00, P-7:00
C—Robert Burns, Lombardo
KDYL KFJF KFJF KFRC KHJ
KLZ KMBC KMOX KOIN KOL
KRLD KTRH KTSB WABC WADC
WBMB WCAO WCAU WCCO WDRS
WEAN WFBL WFBM WHK WJAS
WKWB WKRC WMAL WNAC WOWO
WSPD WXYZ

C—The Columbians; Freddie Rich
WBCB WBRC WBT WDBO WREC
WTAR WTOC

R—National Radio Forum
KFSB KFJR KGHL KGIR KGO
KGW KOMO KPRC KSD KSL
KSTP KTRR WBAP WBEN WCAE
WCSH WDAY WEAF WEBC WEEL
WENR WFLA WGY WHAS WHO
WIBA WIOD WIS WJAR WJAX
WJDX WKY WMC WOC WRC
WRVA WSAI WSB WSM WSMB
WTAG WTAM WTIC WTMJ WWJ
WWNC

B—With Canada's Mounted
KDKA KWK WBAL WBZA WGAR
WHAM WJR WJZ WLW WMAQ
WREN

E-10:30 p.m., C-9:30, M-8:30, P-7:30
C—Music That Satisfies
KDYL KFH KFJF KFJF KFRC
KGB KHJ KLRA KLZ KMBC KMOX
KOH KOIN KOL KSCJ KTRH KTSB
WAAB WABC WACO WADC WBMB
WBCB WBRC WBT WCAH WCAO
WCAU WCCO WDAE WDBJ WDBO
WDOD WDRS WDSU WEAN WFBL
WFBM WGST WHC WHK WHP
WIBW WISN WJAS WKWB WKRC
WLAC WLWB WLWB WMAL WMT
WNAX WNOX WOKO WORC WOWO
WPG WQAM WREC WRR WSPD
WTAR WTOC WXYZ

R—Mr. Bones and Company
WBEN WCAE WCSH WEAF WEEL
WENR WFBR WFLA WGY WHO
WIS WJAR WLIT WOC WRC WSAI
WTAG WTAM WWNC

B—Waves of Melody
CFCF CKGW KDKA KOIL KWK
KYW WBAL WBZA WCKY WGAR
WHAM WJR WJZ WREN

E-10:45 p.m., C-9:45, M-8:45, P-7:45
C—Street Singer
CFRB KFH KGB WAAB WABC
WADC WBRC WBT WCAO WCAU
WDAE WDBO WDRS WEAN WFBL
WHC WHP WJAS WKWB WLZ
WMBL WMT WOKO WORC WPG
WQAM WREC WTAR WTOC

C—Myrt and Marge
KDYL KFJF KFRC KHJ KLZ
KMBC KOIN KOL WBMB WCCO
WLAP WXYZ

B—Pickens Sisters
KDKA KWK WBAL WJR WJZ
E-11:00 p.m., C-10:00, M-9:00, P-8:00

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C—Howard Barlow Symphony
CFRB KDYL KFJF KFH KFJF
KFJF KLRA KLZ KMBC KOH
KOIN KOL KTSB KVOR WAAB
WABC WACO WADC WBCM WBRC
WBT WCAH WCAO WCCO WDAE
WDBJ WDOD WDRS WDSU WDAE
WFAN WFBL WFBM WHEC WHP
WIBW WIP WISN WKHB WKBW
WKWB WLAC WLAP WLWB WLZ
WMBD WMT WMAX WNOX WOKO
WORC WOWO WQAM WREC WSBT
WSPD WTAR WTOC WXYZ

B—Peppesenti, Amos 'n' Andy
KFI KFSB KGO KGW KHQ KOA
KOL KOMO KPRC KSL KSTP
KTHS KWK WBAL WDAY WEBC
WENR WHAS WHA WJDX WKY
WMAQ WMC WOAI WREN WSB
WSM WSMB WTMJ

E-11:15 p.m., C-10:15, M-9:15, P-8:15
C—Maxwell House Program
KFAB KFH KFJF KLRA KMBC
KMOX KTRH KTSB WACO WBRC
WCCO WDOD WFIW WGN WGST
WLAC WLAP WNOX WOWO WREC
WRR

R—Prince Albert, Alice Joy
KECA KEX KGA KGIR KJR KOA
KPO KPRC KSD KTRR KTHS
WAPI WBAP WENR WHAS WHO
WJDX WMC WOC WOW WSB WSM

E-11:30 p.m., C-10:30, M-9:30, P-8:30
C—Came!, Morton Downey
KDYL KFJF KLZ KOH KOIN KOL
KTSB WGN WOWO

R—Jesse Crawford, Organ
KSD WCKY WEAF WJAR WRC
WSM WTIC WWJ

R—Firestone, Lawrence Tibbett
KFI KFSB KFJR KGHL KGIR
KGO KGU KGW KHQ KOA KOMO
KSL KTRR WEBC WIBA WTMJ
B—Jane Froman and Orchestra
KOIL KPRC WBAL WENR WJZ
WREN

E-11:45 p.m., C-10:45, M-9:45, P-8:45
R—Baron Lee and Orchestra
KSD WBEN WCKY WEAF WEEL
WGY WJAR WMAQ WRC WTIC
WWJ

E-12:00 m., C-11:00, M-10:00, P-9:00
C—Ben Bernie, Orchestra
KDYL KFH KLZ KOH KSCJ KTRH
KVOR WABC WCAU WCCO WEAN

Monday—Continued

WPBL WHP WIBW WISN WKBN
WKBW WKRC WLAP WLBW WMT
WNAC WNAX WOKO WSPD
R — Sherlock Holmes
KFI KFSD KGO KGW KHQ KOA
KOMO KSL KTAR

E-12:30 a.m., C-11:30, M-10:30, P-9:30
C — Noble Siasle, Park Central Orch
KDYL KFH KLZ KMBC KOH KSCJ
KTRH KVOR WABC WCAU WCCO
WEAN WFBL WHP WIBW WISN
WKBN WKBW WLAP WLBW WNAC
WNAX WOKO WSPD
B — Jones and Hare
KFI KFSD KGO KGW KHQ KOA
KOMO KSL KTAR

E-12:45 p.m., C-11:45, M-10:45, P-9:45
B — Swift, Stebbins Boys
KFI KGO KGW KHQ KOMO KSL

TUESDAY

E-8:30 a.m., C-7:00, M-6:00, P-5:00
R — Gene and Glenn, See Monday

E-8:15 a.m., C-7:15, M-6:15, P-5:15
B — Phil Cook, See Monday

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

E-9:00 a.m., C-8:00, M-7:00, P-6:00
B — Phil Cook, See Monday
R — Gene and Glenn, See Monday

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

E-11:45 a.m., C-10:45, M-9:45, P-8:45
C — Ben Alley, See Monday

E-12:00 p.m., C-11:00, M-10:00, P-9:00
R — General Electric, See Monday

E-12:30 p.m., C-11:30, M-10:30, P-9:30
B — Farm and Home, See Monday

E-4:30 p.m., C-3:30, M-2:30, P-1:30
R — Lady Next Door, See Monday

E-5:15 p.m., C-4:15, M-3:15, P-2:15
R — Skippy, See Monday

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

E-6:00 p.m., C-5:00, M-4:00, P-3:00
C — Art Jarrett, Freddie Rich, Orchestra
CFRB KFH KFJF KLZ KOH KSCJ
KTRH KVOR WAAB WABC WACO
WADC WBBM WBRC WBT WCAH
WCCO WDAE WDBO WFBL WHP
WKRC WLAP WLBW WLBZ WMAL
WOKO WORC WQAM WREC WTAQ
WTAR WTOC

B — Raising Junior, See Sunday
R — Waldorf Orchestra, See Monday

E-6:15 p.m., C-5:15, M-4:15, P-3:15
C — Reis and Dunn
CFRB KFH KFJF KMOX KOH
KSCJ KTRH KVOR WAAB WABC
WACO WADC WBRC WBT WCAH
WCCO WDAE WDBO WFLB WGR
WHP WISN WLAP WLBW WLBZ
WMAL WOKO WORC WQAM WREC
WTAQ WTAR WTOC WVVV

E-6:30 p.m., C-5:30, M-4:30, P-3:30
B — Ray Perkins, Old Topper
KGO KGW KHQ KOA KOIL KOMO
KSL KWK WBZA WGAR WHAM
WJZ WLW WMAQ WREN

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

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

B — Amos 'n' Andy, See Monday
R — Mid-Week Hymn Sing
KEX KGA KGIR KJR KOA KPO
KSTP KTAR KEAF WFI WJDX
WSAI WSB WSM WTAG WTIC

E-7:15 p.m., C-6:15, M-5:15, P-4:15
C — Freddie Rich and Orchestra
KMBC KMOX WABC WCAO WCAU
WCCO WFPM WGN WGR WJAS
WKRC WMAL WNAC WOKO
R — Campbell-Lanin, See Monday

E-7:30 p.m., C-6:30, M-5:30, P-4:30
R — Alice Joy, See Monday
C — Richman Bros., Sylvia Froos
KMBC KMOX WAAB WABC WADC
WBEM WCAU WCCO WFBL WFPM
WGR WHK WISN WJAS WKBN
WLAP WSPD WVVV WXYZ
B — Stebbins Boys, See Monday

E-7:45 p.m., C-6:45, M-5:45, P-4:45
C — Morton Downey, See Monday
R — The Goldbergs, See Monday
B — Jones and Hare, See Monday

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C — Bath Club, See Monday
R — Blackstone, Sandersen-Crumit
KSD KSTP KYW WBEN WCAE
WCSH WDAF WFAF WIBC WEEI
WFI WGY WHO WJAR WOC WOW
WRC WSAI WTAG WTAM WTIC

E-8:15 p.m., C-7:15, M-6:15, P-5:15
C — Sterling, Abe Lyman's Band
KRFJ KMBC KMOX WABC WADC
WCAO WCAU WCCO WDRC WDSU
WEAN WFPM WGN WGR WGST
WHK WJAS WKRC WMAL WNAC
WREC WSPD WXYZ

E-8:30 p.m., C-7:30, M-6:30, P-5:30
C — Kate Smith, See Monday
R — True Story, Mary and Bob
WBEN WCSH WDAF WFAF WEEI
WFBR WFI WGY WHAS WHO
WIOD WJAR WJDX WMC WOC
WOW WRC WSAI WSM WSMB
WTAG WTAM WTIC WVNC

B — Heel Hugger Harmonies
KFI KFSD KGW KHQ KOA KOIL
KOMO KPO KSL KTAR WHAM
WJZ WLS WREN

E-8:45 p.m., C-7:45, M-6:45, P-5:45
C — Gerardine, Ed Sullivan
KMBC KMOX WABC WADC WCAO
WCAU WDRC WEAN WFPM WGN
WGR WHK WJAS WKRC WMAL
WNAC WOWO WSPD WXYZ

B — Sisters of the Skillet
KDKA KFYR KOIL KPRC KSTP
KVoo KWK WBAP WBZA WDAY
WHAM WIBA WJZ WKY WLS
WOAI WREN

E-9:00 p.m., C-8:00, M-7:00, P-6:00
C — Ben Bernie, Orchestra
KDYL KFH KFJF KFPY KPRC
KHJ KLZ KMBC KOIN KOL KTSA
WABC WADC WBRC WBT WCAO
WCAU WCCO WDRC WDSU WEAN
WGN WHK WJAS WKBN WKBW
WKRC WLAC WMAL WNAC WOWO
WRR WSPD WXYZ KTRH

B — McKesson Musical Magazine
KFI KFSD KFYR KGO KGW KHQ
KOA KOMO KPRC KSD KSL KTAR
KTHS KVoo WBEN WCAE WCSH
WDAF WDAY WFAF WIBC WEEI
WFI WFLA WGY WHAS WHO
WIOD WIS WJAR WJAX WJDX
WKY WLS WMC WOAI WOC WOW

WRC WRVA WSAI WSB WSM WSMB
WTAG WTAM WTIC WTJM WJWJ
B — Household Finance
KDKA KWK WBAL WBZA WHAM
WJR WJZ WMAQ WREN

E-9:30 p.m., C-8:30, M-7:30, P-6:30
C — Enno Crime Club
CFRB KMBC KMOX WABC WADC
WCAO WCAU WDRC WEAN WFBL
WGN WHK WJAS WKBW WKRC
WMAL WNAC WOWO WSPD WXYZ
R — The Fuller Man

KFI KGO KGW KHQ KOA KOMO
KSD KSL KSTP KYW WBAP WBEN
WCAE WCSH WDAF WFAF WIBC
WEEI WFI WGY WHO WJAR WKY
WOAI WOC WOW WRC WSAI WSB
WTAG WTAM WTIC WTJM WJWJ
B — Great Personalities, Frazier Hunt
KDKA KOIL KWK WBAL WBZA
WENR WGAR WHAM WJR WJZ
WLW WREN WRVA

E-10:00 p.m., C-9:00, M-8:00, P-7:00
C — Voice of Thousand Shades
CFRB CKAC KDB KDYL KERN
KFBK KPRC KHJ KLZ KMBC
KMJ KMOX KOIN KOL KSCJ
KTRH KWG WAAB WABC WBBM
WBT WCAH WCAO WCAU WCCO
WDRC WEAN WFBL WFPM WGST
WHCC WHK WHP WISN WJAS
WKBW WKRC WLAP WMAL WMT
WOKO WXYZ

R — Lucky Strike, Walter Winchell
KFI KFSD KFYR KGO KGW KHQ
KOA KOMO KPRC KSD KSL KSTP
KTAR WAPI WBEN WCAE WCSH
WDAF WDAY WFAF WIBC WEEI
WENR WFAA WFRB WFI WFLA
WGY WHAS WHO WIBA WIOD
WIS WJAR WJAX WJDX WKY
WMC WOAI WOC WRC WRVA
WSAI WSB WSM WSMB WTAG
WTAM WTIC WTJM WJWJ WVNC
B — Happy-Rose Orchestra
CFRC CKGW KDKA KOIL KWK
WBAL WCKY WGAR WHAM WJR
WJZ WMAQ WREN

E-10:15 p.m., C-9:15, M-8:15, P-7:15
C — Society's Playboy
CFRB CKAC KMBC KMOX KRLD
KTRH WAAB WABC WADC WBBM
WBT WCAO WCAU WCCO WDRC
WFBL WFPM WGST WHK WJAS
WKBW WKRC WLAP WMAL WOKO
WOWO WSPD WXYZ

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

B — Paris Night Life
KDKA KOIL KYW WBZA WCKY
WGAR WHAM WJZ WREN

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

CFRB KLRA WAAB WABC WADC
WBIG WBRC WBT WCAO WDAE
WDBJ WDOD WDRC WDSU WHCC
WHP WJAS WKBW WLBW WLBZ
WML WNOX WODX WOKO WORC
WPG WQAM WREC WTAR WTOC
B — Pickens Sisters, See Monday

E-11:00 p.m., C-10:00, M-9:00, P-8:00
B — Amos 'n' Andy, See Monday
C — Howard Barlow, See Monday
R — Jesse Crawford, Organ
WFAF WFI WIOD WJAR WRC
WTIC

E-11:15 p.m., C-10:15, M-9:15 P-8:15
R — Alice Joy, See Monday

Tuesday—Continued

E-11:30 p.m., C-10:30 M-9:30, P-8:30
 C—George Olsen, Orchestra
 WAAB WABC WBCM WBRC WBT
 WCAO WCAU WDAE WDBO WDRS
 WLBZ WMAL WORC WQAM WREC
 WTAR WTOC
 C—Morton Downey, See Monday

E-12:00 m., C-11:00, M-10:00, P-9:00
 C—Gus Arnheim and Orchestra
 KDYL KFAB KFBK KFJF KLZ
 KMBC KMOX KOH KOIN KSCJ
 KVOB WABC WCAU WCCO WEAN
 WFBL WHP WIBW WISN WKBN
 WKWB WKRC WLAP WLWV WMAL
 WMBD WMT WNAC WNAX WOKO
 WSPD

E-12:05 p.m., C-11:05, M-10:05, P-9:05
 R—Buddy Rogers Orchestra
 KOA KSD KVOO WFAE WSM
 WSMB WTIC

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

E-12:45 p.m., C-11:45, M-10:45, P-9:45
 B—Stebbins Boys, See Monday

WEDNESDAY

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

E-8:15 a.m., C-7:15, M-6:15, P-5:15
 B—Phil Cook, See Monday

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

E-9:00 a.m., C-8:00, M-7:00, P-6:00
 R—Gene and Glenn, See Monday

E-9:15 a.m., C-8:15, M-7:15, P-6:15
 B—Phil Cook, See Monday

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

E-12:00 m., C-11:00, M-10:00, P-9:00
 R—General Electric, See Monday

E-12:30 p.m., C-11:30, M-10:30, P-9:30
 B—Farm and Home, See Monday

E-3:15 p.m., C-2:15, M-1:15, P-12:15
 C—Ann Leaf and Ben Alley
 CFRB KDYL KFBK KFJF KFPY
 KFCB KGB KHJ KLRA KLZ KMBC
 KMOX KOIN KOL KRLD KTRH
 KTSa KVI WABC WADC WBRB
 WCAH WCAO WCAU WCCO WDBJ
 WDRS WDSU WEAN WFBL WFBM
 WGN WGR WGST WHK WHP
 WISN WJAS WKBN WKRC WLAC
 WLAP WMAL WNAC WOKO WORC
 WOWO WPG WREC WSPD WTAR
 WWVA WXYZ

E-4:30 p.m., C-3:30, M-2:30, P-1:30
 R—Lady Next Door, See Monday

E-5:15 p.m., C-4:15, M-3:15, P-2:15
 R—Skippy, See Monday

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

E-6:00 p.m., C-5:00, M-4:00, P-3:00
 R—Waldorf Orchestra, See Monday
 B—Music Treasure Box
 KFJR KTHS WBAL WENR WHAM
 WJDX WJZ WRC WREN WSB WSM

E-6:15 p.m., C-5:15, M-4:15, P-3:15
 C—Harold Stern's Orchestra
 KFJF KFJF KMOX KOH KRLD KSCJ
 KTRH KVOB WAAB WABC WACO
 WADC WBRB WBT WDAE WDBO
 WDRS WEAN WFAN WFBL WGR
 WHEC WHP WIP WISN WLAP
 WLWB WLWZ WMAL WOKO WORC
 WQAM WREC WSPD WTAQ WTAR
 WTOC WWVA

E-6:30 p.m., C-5:30, M-4:30, P-3:30
 B—Royal Vagabonds, See Monday

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

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

E-7:15 p.m., C-6:15, M-5:15, P-4:15
 R—Campbell-Lanin, See Monday
 C—Maxwell House, See Monday

B—Esso Program, Elsie Janis
 KDKA WBAL WBZA WHAM WIS
 WJZ WLW WPTF WRVA WNNC

E-7:30 p.m., C-6:30, M-5:30, P-4:30
 C—Easy Aces, See Monday

C—Reis and Dunn
 KLRA WBIG WBRC WBT WDAE
 WDBJ WDBO WDOD WDSU WFIV
 WGST WLAC WNOX WODX WTAR
 WTOC

R—Alice Joy, See Monday
 B—Stebbins Boys, See Monday

E-7:45 p.m., C-6:45, M-5:45, P-4:45
 C—Morton Downey, See Monday
 R—The Goldbergs, See Monday
 B—Jones and Hare, See Monday

E-8:00 p.m., C-7:00, M-6:00, P-5:00
 C—Bath Club, See Monday

R—Big Time, Humorous Sketch
 KSD WBEN WCSH WEAF WEEL
 WFBR WGY WHO WJAR WLIT
 WMAQ WOC WOW WRC WSAI
 WTAM WJWJ

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

B—Melo-Clariens, Twin Organs
 KFJR KOA KOIL KPRC KSL KSTP
 KVOO KWK KYW WBAL WBAP
 WBZA WCKY WDAY WECB WFAA
 WFLA WGAR WHAM WEAS WIBA
 WIOD WJAX WJDX WJR WJZ
 WKY WMC WOAI WREN WRVA
 WSB WSM WSMB WTMJ WNNC

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

R—Goodyear
 KFJR KGO KGW KHQ KOA KOMO
 KPRC KSD KSL KSTP KVOO KYW
 WBEN WCAE WCSH WDAF WDAY
 WEAF WERC WEEL WFBR WFLA
 WGY WHAS WHO WIBA WIOD
 WIS WJAR WJAX WJDX WKY
 WLIT WMC WOAI WOC WOW
 WRC WSAI WSB WSMB WTAG
 WTAM WTIC WTMJ WJW WNNC
 B—Jack Frost, Melody Moments
 KDKA WBAL WGAR WHAM WJR
 WJZ WLS WLW

E-8:45 p.m., C-7:45, M-6:45, P-5:45
 C—Col. Stoopnagle, See Monday

E-9:00 p.m., C-8:00, M-7:00, P-6:00
 C—Gold Medal Fast Freight
 KFJF KMBC KMOX KSCJ WABC
 WADC WCAO WCAU WCCO WDBJ
 WDRS WEAN WFBL WFBM WGN
 WHK WJAS WKBN WKRC WMAL
 WMT WNAC WOKO WOWO WSPD

R—Halsey-Stewart Program
 CKGW KFI KGO KGW KHQ KOA
 KOMO KPRC KSD KSL KSTP
 KVOO KYW WBEN WCAE WCSH
 WEAF WEEL WFBR WGY WHAS
 WHO WJAR WJAX WLIT WMC
 WOAI WOC WOW WRC WRVA
 WSAI WSB WSM WSMB WTAG
 WTAM WTMJ WJW
 B—Sherlock Holmes
 KDKA KWK WBAL WBZA WGAR
 WHAM WJR WJZ WLW WMAQ

E-9:30 p.m., C-8:30, M-7:30, P-6:30
 C—Crime Club, See Tuesday

C—Ann Leaf at the Organ
 KFRC KSCJ WBCM WBRC WBT
 WDAE WDBO WPG WQAM WREC
 WTAR WTOC

R—Mobiloil Concert
 KFJR KGO KGW KHQ KOA KOMO
 KPRC KSD KSL KSTP KVOO WBEN
 WCAE WCSH WDAF WDAY WEAF
 WEEL WFAA WFBR WFLA WGY
 WHAS WHO WIOD WIS WJAR
 WJAX WJDX WKY WLIT WMAQ
 WMC WOAI WOC WOW WPTF
 WRC WRVA WSAI WSB WSM
 WSMB WTAG WTAM WTIC WJW
 B—Story of Women's Names, See Mon.

E-9:45 p.m., C-8:45, M-7:45, P-6:45
 B—San Felice, See Monday

E-10:00 p.m., C-9:00, M-8:00, P-7:00
 C—Music Satisfies, Ruth Etting

KDB KDYL KERN KFBK KFJF
 KFPY KFRC KGB KGMB KHJ
 KLRA KLZ KMBC KSCJ KMOX
 KOH KOIN KOL KOY KSMJ KTRH
 KTSa KVOB KVG WAAB WABC
 WACO WADC WBBM WBCM WBIG
 WBRB WBT WCAH WCAO WCAU
 WCCO WDAE WDBJ WDBO WDOD
 WDRS WDSU WEAN WFBL WFBM
 WFIV WGST WHEC WHK WHP
 WISN WJAS WJAX WKBN WKBW
 WKRC WLAC WLAP WLWB WLWZ
 WMAL WMBD WMT WNOX WNOX
 WOKO WORC WOW WPG WQAM
 WREC WRR WSPD WTAR WTOC
 WXYZ

R—Coca Cola
 KFI KFSD KGO KGW KHQ KOA
 KOMO KPRC KSD KSL KSTP
 WAPI WBAP WBEN WCAE WCSH
 WDAF WEAF WERC WEEL WENR
 WFBR WFLA WGY WHAS WHO
 WIOD WIS WJAR WJAX WJDX
 WLIT WMC WOAI WOC WOW
 WRC WSAI WSB WSM WSMB WTAG
 WTAM WTMJ WJW WNNC
 B—Happy-Rose Orchestra, See Tues.

E-10:15 p.m., C-9:15, M-8:15, P-7:15
 C—Modern Male Chorus
 KLRA WBIG WERC WBT WDAE
 WDBO WDBO WDOD WDSU WFIV
 WGST WLAC WNOX WPG WREC
 WTAR WTOC

E-10:30 p.m., C-9:30, M-8:30, P-7:30
 R—NBC Artists Program
 CFCE CKGW KGO KOA KSD KSTP
 WBEN WCAE WCSH WEAF WENR
 WFBR WGY WHO WJAR WOAI
 WOC WOW WRC WTAG WTAM
 WJW WNNC

B—Hollywood Nights
 KDKA KOIL KWK KYW WBAL
 WBZA WCKY WGAR WHAM WJR
 WJZ WREN

C—Manhattan Serenaders
 CFRB KDYL KFBK KFJF KFPY
 KLRA KLZ KMOX KTSa KVOB
 WABC WADC WBCM WBRB WBT
 WCAH WCAO WCCO WDAE WDBJ
 WDOD WDRS WDSU WEAN WFBM
 WHP WIBW WISN WJAS WKH
 WKBN WLWB WLWZ WMAL WMBD
 WMT WNAX WOKO WORC WOWO
 WQAM WREC WSBT WTAR WTOC
 WXYZ

E-10:45 p.m., C-9:45, M-8:45, P-7:45
 C—Street Singer, See Monday
 C—Myrt and Marge, See Monday
 B—Pickens Sisters, See Monday

Wednesday—Continued

E-11:00 p.m., C-10:00, M-9:00, P-8:00
R — Nellie Revell
KSD WEAF WGY WJAR WOW
WRC WTAM WWJ
B — Amos 'n' Andy, See Monday
C — Howard Barlow, See Monday
E-11:15 p.m., C-10:15, M-9:15, P-8:15
R — Alice Joy, See Monday
C — Maxwell House, See Monday
E-11:30 p.m., C-10:30, M-9:30, P-8:30
C — Don Redman, Orchestra
WAAB WABC WBCM WBRC WBT
WCAO WCAU WDAE WDBO WDRM
WLBZ WMAL WORC WPG WQAM
WREC WTAR WTOG
C — Morton Downey, See Monday
R — Vincent Lopez, Orchestra
KPYR KPRC WAPI WBEN WCFL
WCKY WEAF WGY WIBA WJAR
WOW WRC WTMJ WWJ
E-12:00 m., C-11:00, M-10:00, P-9:00
C — Eddie Duchin, See Sunday
E-12:05 a.m., C-11:05, M-10:05, P-9:05
R — Coon-Sanders, Orchestra
KPSD KHQ KOA WAPI WEAF
WENR WGY WRC WSB
E-12:30 p.m., C-11:30, M-10:30, P-9:30
B — Jones and Hare, See Monday
E-12:45 p.m., C-11:45, M-10:45, P-9:45
B — Stebbins Boys, See Monday

THURSDAY

E-8:00 a.m., C-7:00, M-6:00, P-5:00
R — Gene and Glenn, See Monday
E-8:15 a.m., C-7:15, M-6:15, P-6:15
B — Phil Cook, See Monday
E-8:30 a.m., C-7:30, M-6:30, P-5:30
R — Cheerio, See Monday
E-9:00 a.m., C-8:00, M-7:00, P-6:00
R — Gene and Glenn, See Monday
E-9:15 a.m., C-8:15, M-7:15, P-6:15
B — Phil Cook, See Monday
E-10:15 a.m., C-9:15, M-8:15, P-7:15
B — Clara, Lu and Em, See Monday
E-11:45 a.m., C-10:45, M-9:45, P-8:45
C — Ben Alley, See Monday
E-12:00 m., C-11:00, M-10:00, P-9:00
R — General Electric, See Monday
E-12:30 p.m., C-11:30, M-10:30, P-9:30
B — Farm and Home, See Monday
E-4:30 p.m., C-3:30, M-2:30, P-1:30
R — Lady Next Door, See Monday
E-5:15 p.m., C-4:15, M-3:15, P-2:15
R — Skippy, See Monday
E-5:45 p.m., C-4:45, M-3:45, P-2:45
B — Orphan Annie, See Monday
E-6:00 p.m., C-5:00, M-4:00, P-3:00
R — Waldorf Orchestra, See Monday
B — Raising Junior, See Sunday
C — Connie Boswell
CFRB KFH KFFJ KLZ KOH KRLD
KVOR WAAB WABC WACO WADC
WBCM WBIG WBRC WBT WCAH
WDAE WDBJ WDDO WDRM WDSU
WFAN WFBL WGL WGN WBEC
WHP WIP WISN WJAS WKWB
WLAC WLAP WLWB WLWB WMBD
WOKO WORC WQAM WREC WSBT
WTAQ WTOG
E-6:15 p.m., C-5:15, M-4:15, P-3:15
C — Reis and Dunn, See Tuesday
E-6:45 p.m., C-5:45, M-4:45, P-3:45
B — Lowell Thomas, See Monday
B — Orphan Annie, See Monday
E-7:00 p.m., C-6:00, M-5:00, P-4:00
C — Myrt and Marge, See Monday

R — Lumber Jacks, See Monday
B — Amos 'n' Andy, See Monday
E-7:15 p.m., C-6:15, M-5:15, P-4:15
R — Campbell-Lanin, See Monday
B — Hind's Romance Exchange
KDKA KOIL KVOO WAPI WBAP
WBZA WENR WHAS WJDX WJZ
WLW WMC WOAI WREN WSB
WSM WSMB
E-7:30 p.m., C-6:30, M-5:30, P-4:30
C — Richman Bros., See Tuesday
B — Stebbins Boys, See Monday
R — Alice Joy, See Monday
E-7:45 p.m., C-6:45, M-5:45, P-4:45
C — Morton Downey, See Monday
R — The Goldbergs, See Monday
B — Jones and Hare, See Monday
E-8:00 p.m., C-7:00, M-6:00, P-5:00
C — Bath Club, See Monday
R — Fleischmann, Rudy Vallee
CFPC CKGW KFI KGO KGW KHQ
KOA KOMO KPRC KSD KSL KSTP
KTAR WBAP WVEN WCAE WCHS
WDAF WEAF WEBC WEEI WFBR
WFI WFLA WGY WHAS WHO
WIOD WJAR WJAX WJDX WKY
WMAQ WMC WOAI WOC WOW
WRC WRVA WSAI WSB WSM WSMB
WTAG WTAM WTIC WTMJ WWJ
B — Dixie Singers
KDKA KOIL KWK WBAL WBZA
WCKY WGAR WHAM WJZ WLS
WREN WRVA
E-8:15 p.m., C-7:15, M-6:15, P-5:15
C — Abe Lyman, See Tuesday
B — Rin Tin Tin Thriller
KDKA KOIL KWK WBZA WGAR
WHAM WJZ WLS WLW WREN
E-8:30 p.m., C-7:30, M-6:30, P-5:30
C — Kate Smith, See Monday
E-8:45 p.m., C-7:45, M-6:45, P-5:45
C — Angelo Patri, Your Child, See Sun.
B — Sisters of Skillet, See Tuesday
E-9:00 p.m., C-8:00, M-7:00, P-6:00
C — Mills Bros., See Monday
B — Blackstone, Sanderson-Crumit
KDKA WBAL WBZA WCKY WHAM
WJZ
R — Big Six of the Air
KFI KPSD KPYR WGHL KGIR
KGO KGW KHQ KOA KOMO KPRC
KSD KSL KSTP KTAR KTHS WAPI
WBAP WVEN WCAE WCHS WDAF
WDAY WEAF WEBC WEEI WFBR
WFI WFLA WGY WHAS WHO
WIBA WIOD WIS WJAR WJAX
WJDX WKY WMAQ WMC WOAI
WOC WOW WPTF WRC WRVA
WSAI WSB WSM WSMB WTAG
WTAM WTIC WTMJ WWJ WNNC
E-9:15 p.m., C-8:15, M-7:15, P-6:15
C — Irene Beasley, Freddie Rich
KMBC KMOX WABC WADC WCAO
WCAU WCCO WDRM WEAN WFBL
WGN WHK WJAS WKWB WKRC
WMAL WNAC WOKO WOWO WSPD
WXYZ
E-9:30 p.m., C-8:30, M-7:30, P-6:30
C — Love Story Hour
KMBC KMOX WABC WADC WBBM
WCAO WCAU WDRM WEAN WFBL
WGN WHK WJAS WKWB WKRC
WMAL WNAC WOWO WSPD WXYZ
R — Sherlock Holmes
CFPC CKGW KSD WVEN WCAE
WCHS WDAF WEAF WEEI WENR
WFI WGY WHO WJAR WOC WOW
WRC WSAI WTAG WTAM WTIC
B — Maxwell House Ensemble
KDKA KFI KPSD KGO KGW KHQ
KOA KOIL KOMO KPRC KSL

KSTP KTAR KWK KYW WAPI
WBAL WBAP WBZA WEBC WFLA
WGAR WHAM WHAS WIOD WJAX
WJDX WJR WJZ WKY WMC WOAI
WREN WRVA WSB WSM WSMB
WTMJ WNNC
E-10:00 p.m., C-9:00, M-8:00, P-7:00
C — H.S.M. Trumpeters
KFFJ KLZ KMBC KMOX KRLD
WAAB WABC WADC WBBM WCAO
WCCO WDRM WDSU WEAN WFBL
WGST WHK WJAS WKWB WKRC
WLAP WMAL WMT WOWO WSPD
R — Lucky Strike, See Tuesday
B — A. & P. Gypsies
KDKA KWK WBAL WBZA WGAR
WHAM WJR WJZ WLW WMAQ
E-10:30 p.m., C-9:30, M-8:30, P-7:30
C — Music Satisfies, See Monday
B — Paris Night Life, See Tuesday
E-10:45 p.m., C-9:45, M-8:45, P-7:45
C — Myrt and Marge, See Monday
C — Arthur Jarrett
KLRA WAAB WABC WADC WBIG
WBRC WBT WCAO WDAE WDBJ
WDDO WDRM WEAN WFAN WFBL
WHBC WHP WIP WJAS WKBN
WKWB WLAC WLWB WLWB WMAL
WODX WOKO WORC WQAM WREC
WTAR WTOG
B — Pickens Sisters, See Monday
E-11:00 p.m., C-10:00, M-9:00, P-8:00
B — Amos 'n' Andy, See Monday
C — Howard Barlow, See Monday
R — Jesse Crawford, See Tuesday
E-11:15 p.m., C-10:15, M-9:15, P-8:15
R — Alice Joy, See Monday
E-11:30 p.m., C-10:30, M-9:30, P-8:30
C — Geo. Olson, Orchestra, See Tuesday
C — Morton Downey, See Monday
E-11:45 p.m., C-10:45, M-9:45, P-8:45
C — Bing Crosby
KDYL KLAB KFPY KLRA KLZ
KMBC KOH KOIN KOL KVOR
WAAB WABC WADC WBCM WBRC
WBT WCAH WCAO WCAU WDAE
WDBJ WDDO WDRM WDSU WEAN
WFBL WFBL WGL WHP WHP
WBWB WISN WKBN WKWB WKRC
WLAC WLAP WLWB WLWB WMAL
WMBD WMT WNAX WNOX WODX
WOKO WORC WPG WQAM WREC
WSBT WSPD WTAR WTOG WXYZ
R — Baron Lee and Orchestra, See Mon.
E-12:00 m., C-11:00, M-10:00, P-9:00
C — Guy Lombardo, Royal Canadians
KDYL KFH KGB KLZ KMBC
KSCJ KTRH KVOR WABC WCAU
WCCO WEAN WFBL WHK WHP
WISN WKBN WKWB WKRC WLAP
WLWB WMT WNAC WNAX WOKO
E-12:05 a.m., C-11:05, M-10:05, P-9:05
R — Coon-Sanders, See Wednesday
E-12:30 p.m., C-11:30, M-10:30, P-9:30
C — Joe Reichman and Orchestra
KDYL KGB KLZ KMBC KOH
KVOR WABC WBBM WCAU WCCO
WEAN WFBL WFBL WGL WBWB
WISN WKBN WKWB WLAC WLWB
WMBD WMT WNAC WNAX WOKO
WSBT WSPD
B — Jones and Hare, See Monday
E-12:45 p.m., C-11:45, M-10:45, P-9:45
B — Stebbins Boys, See Monday

FRIDAY

E-8:00 a.m., C-7:00, M-6:00, P-5:00
R — Gene and Glenn, See Monday
E-8:15 a.m., C-7:15, M-6:15, P-5:15
B — Phil Cook, See Monday

Friday—Continued

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

E-9:00 a.m., C-8:00, M-7:00, P-6:00
 R—Gene and Glenn, See Monday

E-9:15 a.m., C-8:15, M-7:15, P-6:15
 B—Phil Cook, See Monday

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

E-11:45 a.m., C-10:45, M-9:45, P-8:45
 C—Ben Alley, See Monday

E-12:00 m., C-11:00, M-10:00, P-9:00
 R—General Electric, See Monday

E-12:30 p.m., C-11:30, M-10:30, P-9:30
 B—Farm and Home, See Monday

E-4:30 p.m., C-3:30, M-2:30, P-1:30
 R—Lady Next Door, See Monday

E-5:15 p.m., C-4:15, M-3:15, P-2:15
 R—Skippy See Monday

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

E-6:00 p.m., C-5:00, M-4:00, P-3:00
 R—Waldorf Orchestra, See Monday
 B—Raising Junior, See Sunday

E-6:30 p.m., C-5:30, M-4:30, P-3:30
 B—Royal Vagabonds, See Monday

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

E-7:00 p.m., C-6:00, M-5:00, P-4:00
 C—Myrt and Marge, See Monday
 B—Amos 'n' Andy, See Monday
 R—Salon Singers
 KFSO KFYP KGHK KGO KOA
 KOMO KTKR WCFL WESH WEAF
 WFBW WJAR WWJ

E-7:15 p.m., C-6:15, M-5:15, P-4:15
 C—Maxwell House, See Monday
 B—Esso Program, See Wednesday
 R—Campbell-Lamin, See Monday

E-7:30 p.m., C-6:30, M-5:30, P-4:30
 R—Alice Joy, See Monday
 C—Easy Aces, See Monday
 B—Stebbins Boys, See Monday

E-7:45 p.m., C-6:45, M-5:45, P-4:45
 C—Morton Downey, See Monday
 R—The Goldbergs, See Monday
 B—Jones and Hare, See Monday

E-8:00 p.m., C-7:00, M-6:00, P-5:00
 C—Bath Club, See Monday
 R—Cities Service Orchestra
 CKGW KECA KGO KGW KHQ
 KOA KOMO KSD KSL KSTP KTHS
 KYW WBEN WCAE WCSH WDAF
 WEAF WEBC WEEL WFLA WGY
 WHO WJAR WKY WLIT WQAI
 WOC WOV WRC WSAI WTAG
 WTAM WTMJ WTMJ WWJ KPRC
 B—Nestle's Program
 KDKA KOIL KWK WBAL WBZA
 WCKY WGAR WHAM WJR WJZ
 WLS WREN

E-8:15 p.m., C-7:15, M-6:15, P-5:15
 C—Singin Sam, See Monday
 C—Modern Male Chorus
 KGB KLRA WBRB WBT WDAE
 WDBJ WDBO WDOD WLAC WNOX
 WPG WQAM WREC WTAR WTOG

E-8:30 p.m., C-7:30, M-6:30, P-5:30
 C—Today and Yesterday, Drama
 KMBC KMOX WABC WADC WCAO
 WCAU WDRG WEAN WFBL WGN
 WGR WHK WJAS WKRC WMAL
 WNAC WOKO WOVO WSPD WXYZ
 B—Smith Bros., Trade and Mark
 WBAL WGAR WJR WJZ WLS WLW

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

E-9:00 p.m., C-8:00, M-7:00, P-6:00
 C—Pillsbury, Arthur Tracy
 KFJF KMBC KMOX WABC WADC
 WBT WCAO WCAU WCCO WDBJ
 WDRG WEAN WFBL WGN WGST
 WHK WJAS WKBW WKRC WMAL
 WNAC WOKO WORO WOV WREC
 WRR WSPD WTAR WXYZ

R—Cluquet Club
 KSD WBEN WCAE WCSH WDAF
 WEAF WEEL WGY WHO WJAR
 WLIT WLS WOC WOV WRC WSAI
 WTAG WTMJ WWJ

B—Friendship Town
 CFCF CKGW KDKA KFI KFSO
 KFYO KGO KGW KHQ KOA KOIL
 KOMO KPRC KSL KSTP KTKR
 KWK KYW WAPI WBAL WBZA
 WDAY WEBC WFLA WGAR WHAM
 WHAS WIBA WIOD WIS WJAX
 WJDX WJR WJZ WKY WMC WOAI
 WREN WRVA WSB WSM WSMB
 WTMJ WWNC

E-9:30 p.m., C-8:30, M-7:30, P-6:30
 C—To the Ladies
 KMBC KMOX KRDL WABC WADC
 WCAO WCAU WCCO WDRG WEAN
 WBLW WGN WGST WHK WJAS
 WKBW WKRC WMAL WNAC WOKO
 WOVO WSPD WXYZ

R—Pond's Program, Leo Reisman
 KSD WBEN WCAE WCSH WDAF
 WEAF WENR WFBR WGY WHO
 WJAR WLIT WOC WOV WRC
 WSAI WTAG WTAM

B—Armour Program
 KDKA KFI KGO KGW KHQ KOA
 KOIL KOMO KPRC KSL KSTP
 KWK KYW WAPI WBAL WBZA
 WEBC WFLA WGAR WHAM WHAS
 WIOD WJAX WJDX WJR WJZ
 KWK WLV WMC WOAI WREN
 WRVA WSB WSM WSMB WTMJ

E-9:45 p.m., C-8:45, M-7:45, P-6:45
 C—Friendly Five Footnotes
 KFJF KLZ KMBC KMOX KRDL
 WABC WBT WCAO WCAU WCCO
 WDRG WDSU WEAN WFBL WGN
 WHK WJAS WKBW WKRC WMAL
 WOKO WOVO WREC WSPD WXYZ

R—Sampler Orchestra, Andy Sannella
 KSD WBEN WCAE WCSH WDAF
 WEAF WEEL WFBR WGY WHO
 WJAR WLIT WOC WOV WRC WSAI
 WTAG WTAM WWJ

B—Paul Whiteman's Chieftains
 KDKA KFI KFSO KFYP KGO
 KGW KHQ KOA KOIL KOMO
 KPRC KSL KSTP KTKR KVOO KWK
 WBAL WBPB WFLA WCKY WDAY
 WEBC WENR WFLA WGAR WHAM
 WHAS WIOD WJAX WJDX WJR
 WJZ WKY WMC WOAI WREN
 WRVA WSB WSM WSMB WTMJ

E-10:30 p.m., C-9:30, M-8:30, P-7:30
 C—Music Satisfies, See Monday
 R—RKO Theatre of the Air
 KFI KFSO KFYP KGO KGW KHQ
 KOA KOMO KSD KSL KTKR WBEN
 WCAE WCSH WDAY WEAF WEEL
 WENR WFBR WFLA WGY WHAS
 WHO WIBA WIOD WJAR WJAX
 WJDX WKY WLIT WMC WOAI
 WOC WOV WRC WRVA WSAI

WSB WSMB WTAG WTAM WTMJ
 WTMJ WWJ

B—Waves of Melody, See Monday

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

E-11:00 p.m., C-10:00, M-9:00, P-8:00
 R—Vincent Lopez and Orchestra
 KSD WBEN WCFB WCKY WDAF
 WEAF WEEL WIOD WJAR WOV
 WRC WTAM WWJ WWNC
 C—Howard Barlow, See Monday
 B—Amos 'n' Andy, See Monday

E-11:15 p.m., C-10:15, M-9:15, P-8:15
 R—Alice Joy, See Monday
 C—Maxwell House, See Monday

E-11:30 p.m., C-10:30, M-9:30, P-8:30
 C—George Olsen, See Tuesday
 C—Morton Downey, See Monday

E-12:00 m., C-11:00, M-10:00, P-9:00
 C—Ben Bernie, See Monday

E-12:05 a.m., C-11:05, M-10:05, P-9:05
 R—Coon-Sanders, Orchl., See Wed.

E-12:30 p.m., C-11:30, M-10:30, P-9:30
 C—Isham Jones and Orchestra
 KDYL KFYP KGB KLZ KMBC
 KOH KVOR WABC WCAU WCCO
 WEAN WFBL WFBR WGL WGL
 WIBW WISN WKBW WKBW WKRC
 WLAP WLWB WMAL WMBD WMT
 WNAC WNAX WOKO WSBT WSPD
 B—Jones and Hare, See Monday

E-12:45 p.m., C-11:45, M-10:45, P-9:45
 B—Stebbins Boys, See Monday

SATURDAY

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

E-8:15 a.m., C-7:15, M-6:15, P-5:15
 B—Phil Cook, See Monday

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

E-9:00 a.m., C-8:00, M-7:00, P-6:00
 R—Gene and Glenn, See Monday

E-9:15 a.m., C-8:15, M-7:15, P-6:15
 B—Phil Cook, See Monday

E-12:30 p.m., C-11:30, M-10:30, P-9:30
 B—Farm and Home, See Monday

E-4:45 p.m., C-3:45, M-2:45, P-1:45
 R—Lady Next Door, See Monday, 4:30

E-5:15 p.m., C-4:15, M-3:15, P-2:15
 R—Skippy, See Monday

E-5:30 p.m., C-4:30, M-3:30, P-2:30
 R—Station KUKU
 WBEN WCAE WCSH WDAF WEAF
 WFBR WGY WHO WJAR WLIT
 WOC WOV WRC WTAG WTAM
 WTMJ

E-5:45 p.m., C-4:45, M-3:45, P-2:45
 C—Connie Boswell
 CFRB KDYL KFBC KFH KFJF
 KGB KLRA KLZ KMBC KMOX
 KOH KOIN'K KVI KVOR WAAB
 WABC WBCM WBIG WBRB WBT
 WCAH WCAO WCAU WCCO WDAE
 WDOD WDRG WDSU WFBL WGL
 WHEC WHP WIBW WISN WJAS
 WKBH WKBW WKBW WKRC
 WLAC WLAP WLWB WLZ WMT
 WOKO WORC WPG WREC WSBT
 WSPD WTAQ WTAR WTOG WWVA
 B—Orphan Annie, See Monday

E-6:00 p.m., C-5:00, M-4:00, P-3:00
 R—Waldorf Orchestra, See Monday
 B—Raising Junior, See Sunday

E-6:45 p.m., C-5:45, M-4:45, P-3:45
 C—Leon Belasco and Orchestra
 KPAB KFBC KFH KFJF KFRC
 KGB KHJ KLZ KOH KOL KSCJ

Saturday—Continued

KVI KVOR WAAB WABC WBCM
WBIG WBT WCAH WCAO WDBJ
WDDO WDSU WFBL WFBM WFIW
WGST WHP WIBW WISN WJAS
WKBN WKWB WLAC WLAP WLWB
WLWB WMBD WMT WNOX WOKO
WORC WREC WSPD WTOC WXYZ

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

C—Political Situation in Washington
KDYL KFBK KFH KFJF KFRK
KGB KHJ KMBC KMOX KOH
KSCJ KVI KVOR WCAH WADC
WBCM WBIG WBT WCAO WCAO
WDAE WDAE WDBJ WDBO WDDO
WDRU WDSU WEAN WFBL WFBM
WGR WGST WHEC WHP WIBW
WJAS WKBN WKBN WKRC WLAC
WLAP WLWB WLWB WMAL WMT
WNAC WNAX WQAM WREC WTAR
WTOC WVA WXYZ

B—Amos 'n' Andy, See Monday
R—O'Leary's Irish Minstrels
KEX KGA KJR KOA KPO WEAF
WHEI WKY WSB WTAG WTIC
WWJ

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

R—Laws That Safeguard Society
KPCA KPSD KFYP KGA KJR
KOA KPO KTAR KTHS WAPI
WBEN WCHS WDAY WEAF WEEB
WENR WFI WFLA WHO WIOD
WJAR WJAX WJDX WOC WOW
WPTF WRVA WSAI WTAG WTIC
B—Tastyest Jesters, See Monday

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

C—Bright Spot, Guy Lombardo
KMBC KMOX WABC WADC WCAO
WCAU WCCO WDRC WEAN WFBL
WGN WGR WHK WJAS WKRC
WMAL WNAC WOKO WSPD WXYZ
R—Alice Joy, See Monday

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

C—Morton Downey, See Monday
R—The Goldbergs, See Monday

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

C—Fray and Braggiotti, Pianists
CFRB KDYL KFBK KFH KFJF
KFRK KGB KHJ KLRA KMBC
KOH KOL KRLD KSCJ KVI KVOR
WABC WADC WBCM WBIG WBT
WCAH WCAO WCAU WDAE WDBJ
WDBO WDDO WDRC WDSU WFBL
WFBM WGR WGST WHEC WHP
WIBW WISN WJAS WKBN WKRC
WLAC WLAP WLWB WLWB WMT
WNAC WNAX WOKO WPG WREC
WSPD WTAQ WTAR WTOC WVA
WXYZ KFBK

R—Civic Concerts
CKGW KSD WCAE WCHS WDAF
WEAF WFBR WFI WHO WIOD
WIS WJAR WJAX WMAQ WOC
WOW WRC WTIC WWJ WWNC
B—Danger Fighters

KDKA KFI KFSD KFYP KGO KGW
KHQ KOA KOIL KOMO KPRC
KSL KSTP KTAR KWK WAPI
WBAP WCKY WDAY WEEB WHAM
WHAS WIBA WJDX WJZ WKY
WLS WMC WOAI WREN WSB
WSM WSMB WTMJ

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

C—Abe Lyman, See Tuesday

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

C—Hoosier Editor
CFRB KDYL KFH KFJF KFPY
KGB KHJ KLZ KMBC KMOX
KOH KRLD KSCJ KTSa KVOR
WABC WADC WBRB WBT WCAH
WCAO WCAU WCCO WDAE WDBO

WEAN WFBL WGR WHEC WHP
WLWB WISN WJAS WKBN WLAP
WLWB WLWB WMAL WMT WNAC
WNAX WOKO WORC WPG WQAM
WREC WTAQ WTAR WTOC WVA
R—Radio in Education

KFI KFSD KFYP KGHL KGR KGO
KGW KHQ KOA KOMO KPRC KSD
KSL KSTP KTAR KYW WBEN
WCAE WCHS WDAF WDAY WEAF
WEEB WEEI WFBR WFI WFLA
WGY WHAS WHO WIBA WIOD
WJAR WJAX WJDX WKY WMC
WOC WOW WRC WRVA WSAI
WSB WSM WSMB WTAG WTAM
WTIC WTMJ WWJ WWNC WIS

B—Dance, Countess D'Orsay
CFRC CKGW KDKA KWK WBAL
WBZA WGR WHAM WJR WJZ
WLW WMAQ WREN

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

C—Vaughn De Leath
KDYL KFBK KFBK KFH KFJF
KFPY KGB KHJ KLRA KLZ KMOX
KOH KVI KVOR WABC WADC
WBCM WBIG WBRB WBT WCAH
WCAO WCAU WCCO WDAE WDBJ
WDDO WDRU WDSU WEAN WFBL
WFBM WGR WHEC WHK WHP
WIBW WISN WJAS WKBN WLAC
WLAP WLWB WLWB WMAL WMT
WNAC WNOX WORC WOWO WPG
WQAM WREC WSBT WTAR WTOC
WXYZ WOKO

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

C—Carborundum Band
KMOX WAAB WABC WCAU WGN
WHK WKWB WXYZ

R—Goodyear, Pryor's Band
KFI KFSD KFYP KGHL KGR KGO
KGW KHQ KOA KOMO KPRC KSD
KSL KSTP KTAR KYW WAPI
WDAF WBEN WCAE WCHS WDAF
WDAY WEAF WEEB WEEI WFBR
WFI WFLA WGY WHAS WHO
WIBA WIOD WIS WJAR WJAX
WJDX WKY WMC WOAI WOC WOW
WRC WRVA WSAI WSB WSMB
WTAG WTAM WTIC WTMJ WWJ
B—Sinclair Weiner Minstrels
KDKA KOIL KWK WBAL WGAR
WHAM WJZ WLW WREN

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

C—Smith Bros., Trade and Mark
KFB KFJF KLZ KMBC WAAB
WABC WADC WCAO WCAU WCCO
WDRU WDEAN WGN WGST WHEC
WHK WHP WJAS WKWB WKRC
WLAP WLWB WMT WOWO WSPD

R—Club Valspar
CFRC CKGW KSD WBEN WCAE
WCHS WDAF WEAF WEEI WFBR
WFI WGY WHO WJAR WMAQ
WOC WOW WRC WSAI WTAG
WTAM WTIC WWJ

B—First Nighter

KDKA KFI KFSD KFYP KGO KGW
KHQ KOA KOIL KOMO KSL KSTP
KTAR KWK KYW WBAL WBZA
WDAY WEEB WGAR WHAM WJR
WJZ WLW WREN WTMJ

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

C—Ruth Etting, See Wednesday
R—Lucky Strike, See Tuesday
B—Happy-Rose Orchestra, See Tues.

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

C—Public Affairs Institute
KDYL KFBK KFH KFJF KLRA
KLZ KMBC KOH KSCJ KVOR
WAAB WABC WADC WBCM WBIG
WBT WCAH WCAO WCAU WCCO
WDAE WDBJ WDDO WDDO WDRU
WDSU WEAN WFBL WFBM WFIW

WGST WHEC WHP WIBW WISN
WJAS WKBN WKBN WKWB WKRC
WLAC WLAP WLWB WLWB WMAL
WMBD WMT WNAX WNOX WOKO
WORC WPG WREC WSPD WTAQ
WTAR WTOC WVA WXYZ

B—Snoop and Peep
CFRC CKGW KOIL KWK WCKY
WGAR WHAM WJR WJZ WREN

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

B—Hollywood Nights, See Wednesday

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

B—Twenty Fingers of Harmony
CFRC KDKA WBAL WHAM WJR
WJZ WREN

C—Arthur Jarrett, See Thursday

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

B—Amos 'n' Andy, See Monday

C—Don Redman, Orchestra

CFRB KDYL KFJF KFPY KFRK
KLZ KMBC KOH KSCJ KVOR
WAAB WABC WACO WADC WBRB
WBT WCAO WCAU WDAE WDBO
WDRU WEAN WFBL WHEC WHP
WIBW WISN WKBN WKWB WKRC
WLAP WLWB WLWB WMT WNAX
WOKO WORC WQAM WREC WSPD
WTAR WTOC WVA WXYZ
R—Jesse Crawford, See Tuesday

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

R—Alice Joy, See Monday

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

C—Morton Downey, See Monday

R—Buddy Rogers and Orchestra
KEX KGA GHKL KJR KPO KSD
WBEN WCAE WCLP WCKY WDAF
WEAF WEEI WFBR WFI WGY
WHO WIBA WKY WOC WRC WTIC
WWJ

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

C—Guy Lombardo, See Thursday

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

R—Coon-Sanders, See Wednesday

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

C—Harold Stern, Orchestra

KDYL KFH KFPY KGB KLZ KMBC
KOH KOL KSCJ KVOR WABC
WEAN WFBL WISN WKBN WKWB
WKRC WLAP WLWB WMT WNAC
WNAX WOKO WSPD

SUNDAY

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

R—Major Bowes' Capitol Family
KEX KFYP KGA GHKL KJR KOA
KPO KPO KPRC KSTP WAPI WCHS
WDAF WDAY WEAF WENR WFBR
WFI WFLA WGY WHAS WHO
WIOD WJAR WKY WMC WOC
WPTF WRC WSM WSMB WTAM
WTIC WTMJ WWJ WWNC

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

C—International Broadcast

CFRB KFH KFJF KFPY KLZ KMBC
KOH KOL KSCJ KTSa KVI KVOR
WAAB WABC WADC WBT WCAH
WCAO WCAU WCCO WDAE WDBO
WDRU WFBL WGR WHEC WHK
WHP WIBW WISN WJAS WKBN
WLAP WLWB WLWB WMAL WMT
WOKO WORC WPG WQAM WSPD
WTAQ WTAR WVA

B—Careless Lover, Negro Drama
KEX KGA KJR KOA KOIL KPO
KPRC KSL KTAR WCKY WHAM
WJZ

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

C—Street Singer

CFRB KFH KFJF KFPY KLZ KMBC
KOH KOL KSCJ KTSa KVI KVOR

Sunday—Continued

WAAB WABC WADC WBRW WCAH
WCAO WCAU WCCO WDAE WDBO
WFBL WGR WHBC WHP WIBW
WISN WKBN WLAP WLWB WLWZ
WMAL WMT WOKO WORC WOTO
WPG WQAM WSPD WTAQ WTAR
WTOC WWSA

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

C—Cathedral Hour
CFRB KDYL KFH KFJF KFPY
KLZ KMBC KMOX KOH KOL
KRLD KSCJ KTRH KVI WAAB
WABC WBT WCAH WCAU WCCO
WDAE WDBO WDRW WFBL WGR
WHBC WHP WIBW WJAS WKBN
WLAP WLWB WLWZ WMAL WMT
WOKO WPG WQAM WREC WTAQ
WTAR WTOC WWSA WXYZ

B—Walter Damrosch Symphony
KDKA KFI KFSB KFYR KGO
KGW KOMO KSL KSTP KV00
KWK WBAL WBZA WDAY WEBC
WFLA WGAR WHAS WIBA WIOD
WIS WJDX WJR WJZ WKY WLW
WMAQ WOA1 WPTF WREN WRVA
WSB WTMJ WWNC

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

R—Silver Flute
WBEN WCAE WDAF WEAFF WFI
WGY WJAR WRC WTAG WVIC WWJ

E-1:45 p.m., C-12:45, M-11:45, P-10:45

R—Pop Concert, Walter Logan
KFYR KGO KSD KV00 WCAE
WDAY WEAFF WFAA WHAS WIBA
WIOD WIS WJAX WRVA WSB
WSM WTAM WTMJ WWJ WWNC

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

C—Eight Sons of Eli
KFAB KMBC KMOX KRLD WABC
WADC WBBM WBRW WBT WCAO
WCAU WCCO WDRW WDSU WEAN
WGR WHK WJAS WKRC WLAC
WMAL WNAC WOKO WOWO

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

E-2:15 p.m., C-1:15, M-12:15, P-11:15

R—Sunday Bright Spot
CFCF CKGW KFI KFSB KFYR
KGO KGW KHQ KOA KPRC KSD
KSL KSTP KTR KTR KVOO KYW
WAPI WBEN WCAE WCHS WDAF
WDAY WEAFF WEBC WEEI WFAA
WFBR WFLA WGY WHAS WHO
WIOD WJAR WJAX WJDX WKY
WLIT WMC WOAI WOC WOW
WPTF WRC WRVA WSAI WSB
WSM WSMB WTAG WTAM WVIC
WTMJ WWJ

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

C—Church of the Air
KDYL KFH KFJF KFPY KGB KLZ
KMBC KOH KOL KSCJ KTRH
KVOR WAAB WABC WACO WBT
WCAO WCCO WDAE WDBO WDRW
WFBL WHEC WHP WIBW WJAS
WKBN WKBW WKRC WLAP WLWB
WLWZ WMAL WMT WOKO WORC
WQAM WREC WTAQ WTAR WTOC
R—Moonshine and Honey-suckle
KSD WCAE WCKY WCHS WDAF
WEAF WEEI WFBR WGY WJAR
WMAQ WRC WTAG WTAM WVIC
WWJ

B—Yeast Foamers, Herbie Kay
KDKA KFI KFSB KGHL KGIR
KGW KHQ KOA KOIL KPO KPRC
KSL KSTP KTR KTHS KV00 KWK
KYW WAPI WBAL WBZA WEBC
WFAA WFLA WGAR WHAM WHAS
WIOD WIS WJAX WJDX WJR WJZ

WKY WLW WMC WOA1 WPTF
WREN WRVA WSB WSM WSMB
WTMJ WWNC

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

C—Ann Leaf at Organ
CFRB KDYL KFAB KFBK KFH
KFJF KFCR KGB KLRA KLZ KMBC
KOH KOIN KSCJ KVI KVOR WAAB
WABC WADC WBCM WBIG WBRW
WBT WCAH WCAO WCCO WDAE
WDBJ WDOD WDRW WDSU WEAN
WFAN WFBL WFIW WGST WHEC
WHP WIBW WIP WISN WJAS
WKBN WKBN WKBW WKRC
WLAC WLAP WLWB WLWZ WMAL
WMBD WMT WNOX WODX WOKO
WORC WQAM WREC WSPD WTAQ
WTAR WTOC WWSA WXYZ

R—Wayne King and Orchestra
KSD KYW WBEN WCAE WCHS
WDAF WEAFF WEEI WFBR WGY
WHO WJAR WLIT WOC WOW
WRC WSAI WTAG WTAM WVIC
WWJ

B—National Youth Conference
KFSB KFYR KGHL KGIR KGO
KGW KHQ KOA KOMO KPRC KTR
KTHS KV00 KWK WAPI WBAL
WCKY WFLA WGAR WIBA WIOD
WIS WJAX WJDX WJZ WKY WMAQ
WMC WOAI WPTF WREN WRVA
WSB WSMB WWNC

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

C—N.Y. Philharmonic Symphony
CFRB KDYL KFAB KFBK KFH
KFJF KFCR KGB KLRA KLZ KMBC
KOH KOIN KSCJ KVI KVOR WAAB
WABC WADC WBCM WBIG WBRW
WBT WCAH WCAO WCCO WDAE
WDBJ WDOD WDSU WECO WFBL
WFBM WFIW WGST WHEC WHK
WHP WIBW WISN WJAS WKBN
WKBN WKBW WKRC WLAC WLAP
WLWB WLWZ WMAL WMBD WMT
WNOX WODX WOKO WORC WQAM
WREC WSPD WTAQ WTAR WTOC
WWSA WXYZ

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

R—Dr. S. Parkes Cadman
KFSB KFYR KGO KGW KHQ KOA
KOMO KPRC KSD KSL KSTP
KTHS KYW WBEN WCAE WCHS
WDAF WDAY WEAFF WEBC WEEI
WFBR WFLA WGY WHAS WIOD
WIS WJAR WJAX WJDX WKY
WMC WOAI WOW WPTF WRC
WRVA WSAI WSB WSM WSMB
WTAG WTAM WVIC WWJ WWNC
KV00

B—Swift Garden Party

KOIL KWK WBAL WBZA WGAR
WJR WJZ WLW WMAQ WREN

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

B—Travelogue
CFCF CKGW KDKA KOIL KWK
KYW WBAL WBZA WJZ WREN

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

R—Davey Tree Hour
CFCF CKGW WBEN WCAE WCHS
WDAF WEAFF WEEI WENR WFBR
WFI WGY WHO WJAR WOC WOW
WRC WSAI WTAG WTAM WVIC
WWJ

B—Sheaffer Lifetime Revue

KDKA KFI KFSB KFYR KGHL
KGIR KGO KGW KHQ KOA KOMO
KPRC KTR KTHS KV00 KWK
WAPI WBAL WBAF WCKY WDAY
WEBC WHAM WHAS WIBA WJDX
WJZ WKY WMAQ WMC WOA1
WREN WSB WSM WSMB WTMJ

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

C—Real Folks
KFJF KMBC KRLD KTRH K TSA
WABC WADC WBBM WBT WCAO
WCAU WCK WJAS WKRC WMAL
WOWO WSPD WXYZ WGST

B—National Vespers, Dr. Fosdick

CKGW KFI KFSB KFYR KGIR
KGO KGW KHQ KOMO KPRC
KSTP KTHS KV00 KWK WBAL
WBZA WCKY WDAY WEBC WFAA
WFLA WGAR WHAM WIBA WIOD
WIS WJDX WJZ WKY WMAQ
WOAI WPTF WREN WRVA WSB
WSM WSMB WWNC

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

C—Blue Coal Revue
CFRB WAAB WABC WBRW WCAO
WCAU WENR WFBL WGR WHEC
WHP WOKO WORC

R—General Electric Circle

KECA KEX KFYR KGA KJR KOA
KPO KPRC KSD KSL KSTP KTR
KV00 WAPI WBAF WBN WCAE
WCHS WDAF WDAY WEAFF WEBC
WEEI WENR WFBR WFI WFLA
WGY WHAS WHO WIBA WIOD
WIS WJAR WJAX WJDX WKY
WMC WOAI WOC WOW WPTF
WRC WRVA WSAI WSB WSM
WSMB WTAG WTAM WVIC WTMJ
WWJ WWNC

B—Simoniz Guardsmen

KOIL KWK KYW WBAL WBZA
WGAR WHAM WJZ WLW WREN
C—Chicago Knights
KDYL KFAB KFBK KFF KFPY
KGB KHJ KLZ KOH KOL KRLD
KTS KVR WBBM WCAH WIBW
WJAS WKBN WLAP WMT WWSA

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

C—Four Eton Boys, Irene Beasley
WBIG WBRW WBT WDAE WDBJ
WDOD WDSU WLAC WNOX WQAM
WREC WTAR WTOC

R—Catholic Hour

CFCF CKGW KPRC KSD KSTP
KTHS KV00 WBEN WCAE WCHS
WDAF WEAFF WEBC WFAA WFLA
WGY WHAS WHO WIOD WJAR
WJDX WKY WLIT WLS WMC WOA1
WOC WOW WRC WSAI WSB WSMB
WTAG WTAM WVIC WTMJ WWJ

B—Raising Junior

KWK KYW WBAL WEBC WGAR
WHAM WIBA WJR WJZ

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

C—Columbia Concerts Program
KVI WAAB WABC WADC WBIG
WBRW WBT WCAU WDAE WDOD
WDSU WEAN WFBL WFIW WGST
WHEC WHP WJAS WKBN WLAP
WLWZ WNOX WODX WOKO WQAM
WREC WTAR WTOC

B—"K-7, War Drama

KWK WCKY WJR WJZ WMAQ
WREN

C—Barnsdall Musical Memories

KFH KFJF KMBC KMOX KSCJ
WCCO WGL WGN WIBW WISN
WMT WSPD WXYZ

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

C—National Advisory Council
KFAB KFBK KFH KFJF KFPY
KHJ KLZ KMBC KOH KOIN KOL
KRLD KVI KVOR WABC WACO
WADC WBBM WBCM WBIG WBT
WCAH WACO WCCO WDAE WDBJ
WDOD WDSU WFAN WFBL WFBM
WGL WGR WHEC WHP WIBW
WIP WISN WJAS WKBN WKBN
WLAP WLWB WLWZ WMAL WMT

Sunday—Continued

WNAX WNOX WOKO WPG WQAM
WREC WSBT WSPD WTAR WTOC
WVVA

B—Willys-Overland Orchestra
CFCC KDKA KFI KFSD KFYR
KGHL KGO KGW KHQ KOA KOMO
KPRC KSL KSTP KTAR KVOO KWK
KYW KYW WBAL WBZA WDAY
WBCB WFAA WFLA WGAR WHAM
WHAS WIBA WIOD WJDX WJR
WJZ WKY WLW WMC WOAI WREN
WSB WSM WSMB WTMJ

R—L'Heure Exquise
CFCC WFAA WFBR WFLA WGY
WIS WJAR WJZ WRVA WSAI
WTAG WTIC WWJ WWNC

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

R—Reaxall Program
CFCC KFI KFYR KGHL KGIR KGO
KGW KHQ KOA KOMO KSD KSL
KVOO WCAE WCHS WDAF WDAY
WEAF WBCB WFBF WFLA WGY
WIOD WIS WJAR WJAX WJDX
WKY WLIT WMAQ WMC WPTF
WRC WRVA WSAI WSB WSM
WSMB WTAG WTIC WTMJ WWJ
WWNC

E-7:30 p.m., C-6:30, M-5:30, P-3:30

C—Luden's Novelty Orchestra
KDYL KLZ KMBC KMOX KRLD
WABC WBT WCAO WCAU WCCO
WDSU WFBM WGN WGR WGST
WHK WKBH WKRC WMAL WNAC
WNAX WREC WXYZ

B—Three Bakers

CFCC KDKA KFI KFSD KFYR
KGO KGW KHQ KOA KOIL KOMO
KPRC KSL KSTP KTAR KVOO
KWK KYW WBAL WBZA WDAY
WBCB WFAA WFLA WGAR WHAM
WHAS WIBA WIOD WJDX WJR
WJZ WKY WLW WMC WOAI WREN
WRVA WSB WSM WSMB WTMJ

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

C—The Sylvanians
KMBC KMOX WABC WCAO
WCCO WDRC WGL WGN WGR
WJAS WKRC WNAC WOKO WXYZ
WCAU

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

C—Pennzoil Parade
KFJF KLRA KMOX KTSB WABC
WADC WCAO WCAU WCCO WDRC
WEAN WFBL WGN WGR WGST
WHK WJAS WKRC WMAL WNAC
WNOX WOKO WSPD WXYZ

R—Chase & Sanborn

CFCC CKGW KPRC KSD KSTP
KTHS KVOO WBNB WCAE WCHS
WDAF WFAA WFBF WFLA WFLA
WGY WHAS WHO WIOD WJAR
WJDX WKY WLIT WLS WMC
WOAI WOC WOV WRC WSAI
WSB WSMB WTAG WTAM WTIC
WTMJ WWJ

B—Enna Jettick Melodies

CFCC CKGW KDKA KFI KFSD
KFYR KGHL KGIR KGO KGW
KHQ KOA KOIL KOMO KPRC
KSL KSTP KTAR KTHS KVOO
KWK KYW WBAL WBZA WDAY
WBCB WFAA WFLA WGAR WHAM
WHAS WIBA WIOD WJDX WJR
WJZ WKY WLW WMC WOAI
WREN WRVA WSB WSM WSMB
WTMJ WWNC

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

B—Collier's Radio Hour
KDKA KFI KGO KGW KHQ KOA
KOMO KSL KWK KYW WBAL

WBZA WGAR WHAM WJR WJZ
WLW WREN

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

C—The Metropolitans
CFRB KFBK KFJF KPRC KGB
KHJ KLRA KLZ KMBC KMOX
KOH KOIL KFOR WABC WADC
WBCM WBIG WBRC WBT WCAH
WCAO WCCO WDAE WDBJ WDBO
WDRC WDSU WEAN WFBF WFLA
WFBM WGR WGST WHK WHP
WIBW WIS WJAS WKBN WKNB
WLAB WLWB WLZB WMAL WMT
WNAX WDX WOKO WORG WQAM
WREC WSPD WTAR WTOC WXYZ

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

C—Angelo Patri, "Your Child"
KMBC KMOX WABC WADC WCAO
WCAU WDRC WEAN WFBF WGN
WGR WHEK WJAS WKRC WMAL
WNAC WOV WSPD WXYZ
C—Col. Stoopnagle and Budd
WBCM WDAE WDBO WDRC WQAM
WREC WTAR WTOC

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

C—Everready, Jack Denny
KDB KDYL KERN KFBK KFPY
KFCR KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KWG WABC
WADC WBT WCAO WCAU WCCO
WDRC WEAN WFBF WFBM WGN
WGR WGST WHK WJAS WKRC
WMAL WNAC WOKO WOV WRR
WSPD WXYZ

R—Our Government, David Lawrence

KVOO WCHS WFAA WENR WFAA
WFBF WFI WFLA WGY WHO
WIOD WIS WJAR WJDX WOC
WOW WRC WSAI WWNC KSD

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

R—Album of Familiar Music
KFI KFSD KFYR KGO KGW KHQ
KOA KOMO KPRC KSD KSL KSTP
KTAR KTHS KVOO WAPI WBNB
WCAE WCHS WDAY WFAF WFCB
WENR WFBF WFI WFLA WGY
WHAS WHO WIBA WIOD WJAR
WJAX WJDX WKY WOAI WOC
WOW WRC WRVA WSAI WSB WSM
WSMB WTAG WTAM WTMJ WWJ

B—Bayuk Stag Party

KDKA KWK KYW WBAL WBZA
WGAR WJR WJZ WLW WREN

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

C—Count Von Luckner, "Sea Devil"
CFRB KDYL KFPY KPRC KHJ
KLZ KMOX KOIN KOL WABC
WADC WCAO WCAU WDRC WEAN
WFBF WGN WGR WHK WJAS
WKRC WMAL WNAC WOV WSPD
WXYZ KMBC

C—Ann Leaf at the Organ

WBCM WBRB WBT WDAE WDBO
WQAM WREC WTAR WTOC

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

R—Buick Revelers
KFI KFSD KFYR KGO KGW KHQ
KOA KOMO KPRC KSD KSL KSTP
KTAR WAPI WBNB WCAE WCHS
WDAF WDAY WFAF WFCB WENR
WFBF WFI WFLA WGY WHAS
WHO WIBA WIOD WJAR WJAX
WJDX WKY WMC WOAI WOC
WOW WRC WRVA WSAI WSB
WSM WSMB WTAG WTAM WTIC
WTMJ WWJ

B—Making Movies, Ray Knight

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

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

C—Edna Wallace Hopper
KDYL KFJF KFJF KLZ KMBC
KMOX KRLD KTSB WAAB WABC
WADC WBBM WBRC WCAO WCAU
WCCO WDAE WDSU WFLB WFBM
WGST WHEC WHK WISN WJAS
WKWB WKRC WLAP WLZB WMAL
WOKO WORC WOV WROC WSPD

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

B—Old Singing Master
KDKA KFI KFSD KGO KGW KHQ
KOA KOIL KOMO KTAR KWK
WBAL WBZA WGAR WHAM WJZ
WLW WMAQ WREN

R—Gordon String Quartet

CKGW KTBS WBNB WCAE WCHS
WDAF WFAA WEEI WFI WGY
WJAR WOW WRC WTAG WTAM

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

C—International Revue
KMOX WAAB WABC WADC WBBM
WCAO WCAU WCCO WDRC WDSU
WEAN WFBF WFBM WGST WHK
WJAS WKWB WKRC WMAL WOKO
WREC WRR WSPD WXYZ

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

C—Ernest Hutcheson, Pianist
CFRB KDYL KFAB KFBK KFJF
KFJF KFYR KGB KLRA KLZ KMOX
KOH KOIN KFOR WAAB WABC
WADC WBCM WBT WCAH WCAO
WCAU WCCO WDAE WDBJ WDOD
WDRC WDSU WEAN WFBF WFBM
WGL WGR WHEC WHK WHP
WIBW WISN WJAS WKBN WLAC
WLAP WLWB WLZB WMAL WMT
WNAX WNOX WOKO WORC WOV
WPG WQAM WREC WSBT WSPD
WTAR WTOC WXYZ

R—Sunday at Seth Parker's

CKGW KFSD KFYR KGHL KGIR
KGO KGW KOA KPRC KSL KSTP
KTAR KYW WAPI WBNB WCAE
WCHS WDAF WDAY WFAF WFCB
WEEI WFBF WFI WFLA WGY
WHAS WHO WIBA WIOD WIS
WJAR WJAX WJDX WKY WMC
WOAI WOC WOV WRC WRVA
WSAI WSB WSM WSMB WTAM
WTMJ WWJ WWNC

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

R—Ralph Kirby, Dream Singer
WCAE WDAF WFAA WENR WFBF
WFI WGY WHO WOC WOW WWJ

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

C—The Gauchos, Tito Guizar
KFJF KLRA WABC WADC WBCM
WBRB WBT WCAO WCAU WDAE
WDBJ WDOD WDRC WDSU WEAN
WFBF WGL WGR WHEC WHP
WIBW WISN WKBN WLAC WLWB
WLZB WMAL WMT WNOX WOKO
WPG WQAM WREC WSPD WTAR
WTOC WXYZ

C—Pennzoil Parade

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

R—Jesse Crawford at Organ

WCAE WCKY WDAF WFAA WENR
WFBF WGY WHO WJAR WOC
WOW WRC WTAM WWJ

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

C—Eddie Duchin, Casino Park Orch.
KFH KOH KTRH WABC WCAU
WCCO WEAN WFBF WGR WHP
WIBW WISN WKBN WKRC WLAP
WLWB WMT WNAC WNAX WOKO
WSPD WTAR

INDEX BY FREQUENCIES AND DIAL NUMBERS

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KEY

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

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

540 kilocycles 555.6 meters
 ----- -- 500 + Windsor, Ontario

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Essex Broadcasters, Ltd.

550 kilocycles 545.1 meters

KFDY	†	500	1+	Brookings, S. D.
KFUO	*	500	2+	St. Louis, Mo.
KFYR	†	1000	1+N	Bismarck, N. D.
KOAC	†	1000	---	Corvallis, Ore.
KSD	†	500	2R	St. Louis, Mo.
WGR	*	1000	C	Buffalo, N. Y.
WKRC	†	1000	C	Cincinnati, Ohio

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

560 kilocycles 535.4 meters

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

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

570 kilocycles 526.0 meters

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

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Wichita Falls Broadcasting Co.
 KMTR Radio Corp.
 American Radio Tel. Co.
 Ohio State University
 WKBN Broadcasting Corp.
 Clive B. Meredith
 Knickerbocker Broadcasting Co., Inc.
 House of Gurney, Inc.
 Dept. of Plants and Structures
 Clive B. Meredith
 Citizens Broadcasting Co., Inc.

580 kilocycles 516.9 meters

CFCL	---	500	Sa	Toronto, Ont.
CFCY	*	500	---	Charlottetown, P. E. I.
CHMA	---	250	4S	Edmonton, Alta.
CKCL	*	500	a	Toronto, Ont.
CKUA	†	500	4	Edmonton, Alta.
KGFX	---	200	DZ	Pierre, S. D.
KSAC	†	500	2+	Manhattan, Kans.
WIBW	*	1000	2+C	Topeka, Kansas
WOBW	*	250	1+	Charleston, W. Va.
WSAZ	*	250	1	Huntington, W. Va.
WTAG	*	250	R	Worcester, Mass.

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

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680 kilocycles 440.9 meters

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

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Scroggin & Co., Bank
Hale Bros. & The Chronicle
Durham Life Insurance Co.
Sria. de Guerra y Marina

690 kilocycles 434.5 meters

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

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

700 kilocycles 428.3 meters

WLW	*	5000	B	Cincinnati, Ohio
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Crosley Radio Corp.

710 kilocycles 422.3 meters

KMPC	*	500	Dn	Beverly Hills, Cal.
WOR	*	5000	X	Newark, N. J.
XEN	†	1000	711	Mexico City

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

720 kilocycles 416.4 meters

WGN	†	25000	C	Chicago, Ill.
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Chicago Tribune

730 kilocycles 410.7 meters

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

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W. G. Hassell
Northern Electric Co., Ltd.
La Presse Publishing Co., Ltd.
Vancouver Daily Province
United Church of Canada
Sprott-Shaw Radio Co.
Western Broadcasting Co., Ltd.
Cuban Broadcasting Co., Hotel Plaza
Canadian National Railways
Dr. John R. Brinkley

740 kilocycles 405.2 meters

CJCA	*	500	745	Edmonton, Alta.
KMMJ	*	1000	Dn	Clay Center, Nebr.
WSB	--	5000	NX	Atlanta, Ga.
WHEB	--	250	CPD	Portsmouth, N. H.

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The Edmonton Journal, Ltd.
The M. M. Johnson Co.
Atlanta Journal Co.
Granite State Broadcasting Corp.

750 kilocycles 399.8 meters

WJR	†	10000	BX	Detroit, Mich.
XEQ	--	5000	---	Juarez, Chih.

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WJR, The Goodwill Station, Inc.
Feliciano Lopez Islas

760 kilocycles 394.5 meters

KVI	*	1000	C Dn	Tacoma, Wash.
WBAL	*	1000	B □	Baltimore, Md.
WEW	*	1000	D	St. Louis, Mo.
WJZ	†	30000	B □	New York City

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Puget Sound Broadcasting Co., Inc.
Consolidated Gas, Elec. & Power Co.
St. Louis University
National Broadcasting Co., Inc.

770 kilocycles 389.4 meters

KFAB	*	5000	1XC	Lincoln, Nebr.
WBBM	*	25000	1C	Chicago, Ill.

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KFAB Broadcasting Co.
WBBM Broadcasting Corp.

780 kilocycles 384.4 meters

CKY	--	5000	a	Winnipeg, Manitoba
CNRW	--	5000	a	Winnipeg, Manitoba
KELW	*	500	2	Burbank, Cal.
KTM	*	500	2+	Los Angeles, Cal.
WEAN	*	250	+C	Providence, R. I.
WMC	--	500	+N	Memphis, Tenn.
WPOR	--	500	1b	Norfolk, Va.
WTAR	--	500	1Cb	Norfolk Va.
XEZ	*	500	---	Mexico, Mex.

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Manitoba Telephone System
Canadian National Railways
Magnolia Park, Ltd.
Pickwick Broadcasting Corp.
Shepard Broadcasting Service, Inc.
Memphis Commercial-Appeal, Inc.
WTAR Radio Corp.
WTAR Radio Corp.
Joaquin Capilla

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790 kilocycles 379.5 meters

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

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

800 kilocycles 374.8 meters

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

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Carter Publications, Inc.
News & Journal

810 kilocycles 370.2 meters

CHNS	*	500	Za815	Halifax, N. S.
CNRH	--	500	Za815	Halifax, N. S.
WCCO	--	5000	CX	Minneapolis, Minn.
WPCB	*	500	D	New York City
XFC	--	250	---	Aguascalientes, Mexico
VOAS	--	75	---	St. John's, N. F.

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

KCY.S.
880

MTRS.
340.7
DIAL

820 kilocycles 365.6 meters

WHAS	†	10000	NX	Louisville, Ky.
XFI	--	1000	818	Mexico City

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

830 kilocycles 361.2 meters

CMGA	--	100	834	Colon, Cuba
KOA	†	12500	NX	Denver, Colo.
WEEU	--	1000	D	Reading, Pa.
WHDH	--	1000	D	Boston, Mass.
WRUF	*	5000	Dn	Gainesville, Fla.

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

840 kilocycles 356.9 meters

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

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Gooderham & Worts, Ltd.
Alberta Pacific Grain Co., Ltd.
Cuban Telephone Co.
Canadian National Railways
Canadian Pacific Railways

850 kilocycles 352.7 meters

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

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Hello World Broadcasting Corp.
Loyola University

860 kilocycles 348.6 meters

CMJE	--	20	856	Camaguey, Cuba
KMO	†	500	+ Dn	Tacoma, Wash.
WABC	*	50000	Ca	New York City
WBOQ	*	50000	a	New York City
WHB	*	500	D	Kansas City, Mo.
XFX	--	500	867	Mexico City, Mexico

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

870 kilocycles 344.6 meters

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

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

880 kilocycles 340.7 meters

CHML	*	50	4	Hamilton, Ont.
CJCB	*	50	---	Sydney, N. S.
CKCV	†	50	a	Quebec, Que.
CKPC	†	100	4	Preston, Ont.
CNRQ	†	50	a	Quebec, Que.
KFKA	†	500	2+	Greeley, Colo.
KLX	*	500	---	Oakland, Cal.
KPOF	*	500	2	Denver, Colo.
WCOC	*	500	+	Meridian, Miss.
WGBI	*	250	1	Scranton, Pa.
WQAN	*	250	1	Scranton, Pa.
WSUI	*	500	---	Iowa City, Iowa

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

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

890 kilocycles 336.9 meters

CFBO	*	500	---	St. John, N. B.
CKCO	†	100	3	Ottawa, Ont.
CKPR	†	50	3	Ft. William, Ont.
CMCF	†	250	---	Havana, Cuba
CMX	*	1000	885	Havana, Cuba
KARK	*	250	---	Little Rock, Ark.
KFNF	---	500	2+	Shenandoah, Iowa
KUSD	*	500	2	Vermillion, S. D.
WGST	*	250	+C	Atlanta, Ga.
WILL	†	250	2+	Urbana, Ill.
WJAR	*	250	+R	Providence, R. I.
WKAQ	*	250	---	San Juan, P. R.
WMMN	*	250	+	Fairmont, W. Va.
XES	\$	500	---	Tampico, Mexico

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

900 kilocycles 333.1 meters

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

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

910 kilocycles 329.6 meters

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

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

920 kilocycles 325.9 meters

HHK	*	1000	---	Port au Prince, Haiti
KFEL	†	500	1	Denver, Colo.
KFXF	*	500	1	Denver, Colo.
KOMO	†	1000	N	Seattle, Wash.
KPRC	*	1000	+N	Houston, Texas
WAAF	---	500	D	Chicago, Ill.
WBSO	---	500	D	Needham, Mass.
WWJ	†	1000	R	Detroit, Mich.

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

930 kilocycles 322.4 meters

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

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

940 kilocycles 319.0 meters

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

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

950 kilocycles 315.6 meters

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

Manuel Alvarez		
Warner Bros. Broadcasting Corp.		

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KGHL	--	1000	N	Billings, Mont.
KMBC	*	1000	C	Kansas City, Mo.
VONA		30		St. John's, N. F.
WRC	†	500	N	Washington, D. C.

Northwestern Auto Supply Co., Inc.
Midland Broadcasting Co., Inc.
Lane, Gillard & Avery
National Broadcasting Co., Inc.

960 kilocycles 312.3 meters

CHCK	--	100	---	Charlottetown, P. E. I.
CHWC	*	500	3	Regina, Sask.
CJBR	--	500	3a	Regina, Sask.
CKCK	†	500	3a	Regina, Sask.
CKNC	--	500	---	Toronto, Ont.
CMBC	--	150	965	Havana, Cuba
CMBD	--	250	965	Havana, Cuba
CNRR	--	500	3a	Regina, Sask.
XED	*	10000	965	Reynosa, Mexico

W. E. Burke & J. E. Gesner
R. H. Williams & Sons, Ltd.
Cooperative Wheat Producers, Ltd.
Leader-Post, Ltd.
Canadian National Carbon Co., Ltd.
Domingo Fernandez
Luis Perez Garcia
Canadian National Railways
International Broadcasting Co.

970 kilocycles 309.1 meters

CMGF	--	50	977	Matanzas, Cuba
KJR	*	5000	B	Seattle, Wash.
WCFL	--	1500	R Dn	Chicago, Ill.

Bernabe R. de la Torre
Northwest Broadcasting System, Inc.
Chicago Federation of Labor

980 kilocycles 305.9 meters

CFCN	--	10000	985	Calgary, Alta.
KDKA	--	50000	B	Pittsburgh, Pa.
TI4NRH	--	15	---	Heredia, C. R.

W. W. Grant & H. G. Love
Westinghouse Elec. & Mfg. Co.
Armando Cespedes

KCYS.
1020

MTRS.
293.9

DIAL

990 kilocycles 302.8 meters

WBZ	†	25000	B□X	Boston, Mass.
WBZA	†	1000	B□X	Springfield, Mass.
XEK	--	101	---	Mexico City

Westinghouse Elec. & Mfg. Co.
Westinghouse Elec. & Mfg. Co.
Arturo Martinez

1000 kilocycles 299.8 meters

KFVD	*	250	Dn	Culver City, Cal.
WHO	*	5000	N□X	Des Moines, Iowa
WOC	*	5000	N□X	Davenport, Iowa
WORK	--	1000	D	York, Pa.
XEA	--	100	---	Guadalajara, Jal.
XEC	--	50	---	Toluca, Mex.
XEE	*	105	---	Oaxaca, Oax.
XEFE	--	100	---	N. Laredo, Tams.
XEFI	--	100	---	Chihuahua, Chih.
XEFS	--	40	---	Queretaro, Qro.
XEI	*	101	---	Morelia, Mexico
XEJ	*	100	---	Juarez, Chih.
XEL	--	25	---	Saltillo, Coah.
XETC	--	100	---	Jalapa, Ver.
XETG	--	100	---	Torreon, Coah.
XEU	--	100	---	Veracruz, Ver.
XEV	--	100	---	Puebla, Pue.
XEY	--	105	---	Merida, Yuc.

Los Angeles Broadcasting Co.
Central Broadcasting Co.
Central Broadcasting Co.
York Broadcasting Co.
Alberto Palos Sauza
Jesus R. Benavides
Alfonso Zorilla B.
Rafael T. Carranza
Feliciano Lopez Islas
Salvador Sanchez
Carlos Gutierrez M.
Juan G. Buttner
Antonio Garza Castro
Juventino Sanchez
Feliciano Lopez Islas
Fernando Pazos
Ciro Molina
Partido Socialista S. E.

1010 kilocycles 296.8 meters

CKIC	--	50	---	Wolfville, N. S.
CMBW	--	150	---	Havana, Cuba
CMZB	--	150	---	Havana, Cuba
KGGF	†	500	2	S. Coffeyville, Okla.
KQW	*	500	---	San Jose, Cal.
WHN	*	250	1	New York City
WIS	*	500	+N	Columbia, S. C.
WNAD	*	500	2	Norman, Okla.
WPAP	*	250	1	New York City
WQAO	--	250	1	New York City
WRNY	--	250	1	New York City

Acadia University
Modesto Alvarez
Manual y G. Salas
Powell & Platz
Pacific Agricultural Foundation, Ltd.
Marcus Loew Booking Agency
South Carolina Broadcasting Co., Inc.
University of Oklahoma
Palisades Amusement Park
Calvary Baptist Church
Aviation Radio Station, Inc.

1020 kilocycles 293.9 meters

CMJH	--	15	1017	Ciego de Avila, Cuba
KFKX	*	10000	Na	Chicago, Ill.
KYW	*	10000	Na	Chicago, Ill.
WRAX	†	250	D	Philadelphia, Pa.
XBFD	--	300	---	Tiajuana, B. C.

Luis Marauri
Westinghouse Elec. & Mfg. Co.
Westinghouse Elec. & Mfg. Co.
WRAX Broadcasting Co.
Carlos de la Sierra

CUT OUT ON DOTTED LINES

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1030 kilocycles 291.1 meters

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

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

1040 kilocycles 288.3 meters

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

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KRLD Radio Corp.
 Chamber of Commerce
 Michigan State College

1050 kilocycles 285.5 meters

KFBI * 5000 Dn Milford, Kansas
 KNX * 5000 --- Hollywood, Cal.
 XEFC -- 10 --- Merida, Yuc.

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

1060 kilocycles 282.8 meters

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

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

1070 kilocycles 280.2 meters

CMBG -- 150 --- Havana, Cuba
 CMCB -- 150 --- Havana, Cuba
 KJBS * 100 D San Francisco, Cal.
 WCAZ * 50 D Carthage, Ill.
 WDX † 100 D Tuscola, Ill.
 WTAM ** 50000 R Cleveland, Ohio
 XEG -- 250 --- Mexico City, Mexico

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Francisco Garrigo
 Antonio Capablanca
 Julius Brunton & Sons Co.
 Superior Broadcasting Service
 James L. Bush
 National Broadcasting Co., Inc.
 Miguel Yarza

1080 kilocycles 277.6 meters

WBT * 5000 CX Charlotte, N. C.
 WCBD * 5000 1 Dn Zion, Ill.
 WMBI * 5000 1 Dn Chicago, Ill.

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Station WBT, Inc.
 Wilbur Glenn Voliva
 Moody Bible Institute

1090 kilocycles 275.1 meters

KMOX * 50000 C St. Louis, Mo.

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Voice of St. Louis, Inc.

1100 kilocycles 272.6 meters

KGDM * 250 DX Stockton, Cal.
 WLWL * 5000 1 New York City
 WPG * 5000 1C Atlantic City, N. J.

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E. F. Pepper
 Missionary Society of St. Paul
 WPG Broadcasting Corp.

1110 kilocycles 270.1 meters

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

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Laviz y Paz
 Sioux Falls Broadcasting Assn., Inc.
 Larus & Bros. Co., Inc.

1120 kilocycles 267.7 meters

CFCA † 500 a Toronto, Ont.
 CFJC -- 100 --- Kamloops, B. C.
 CHGS * 100 --- Summerside, P. E. I.
 CJOC † 100 --- Lethbridge, Alta
 CNRT * 500 a Toronto, Ont.
 KFIO † 100 D Spokane, Wash.
 KFSG * 500 3 Los Angeles, Cal.
 KRKD * 500 3 Los Angeles, Cal.
 KRSC † 50 D Seattle, Wash.
 KTRH * 500 2C Houston, Texas
 WDBO * 250 +C Orlando, Fla.
 WDEL † 250 +X Wilmington, Del.
 WHAD * 250 1 Milwaukee, Wis.
 WISN † 250 1C Milwaukee, Wis.
 WTAW * 500 2 College Station, Texas

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Star Pub. & Ptg. Co.
 N. S. Dagleish & Sons
 R. T. Holman, Ltd.
 Harold R. Carson
 Canadian National Railways
 Spokane Broadcasting Corp.
 Echo Park Evang. Assn.
 Dalton's, Inc.
 Radio Sales Corp.
 Rice Hotel
 Orlando Broadcasting Co., Inc.
 WDEL, Inc.
 Marquette University
 Evening Wisconsin Co.
 Agricultural & Mech. College

1130 kilocycles 265.3 meters

KSL * 5000 NX Salt Lake City
 WJJD * 20000 Dn Mooseheart, Ill.
 WOV -- 1000 D New York City
 XEH -- 1000 1132 Monterrey, N. L.

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Radio Service Corp. of Utah
 Loyal Order of Moose
 International Broadcasting Corp.
 Constantino Tarnava

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1140 kilocycles 263.0 meters

KVOO * 5000 1NX Tulsa, Okla.
 WAPI * 5000 1NX Birmingham, Ala.
 XETA -- 500 --- Mexico City

Southwestern Sales Corp.
 Alabama Polytechnic Institute
 Manuel Espinosa Tagle

1150 kilocycles 260.7 meters

CMCQ -- 600 --- Havana, Cuba
 CMQ † 250 --- Havana, Cuba
 WHAM * 5000 BX Rochester, N. Y.
 10-AT -- 25 1155 Trail, B. C.

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

1160 kilocycles 258.5 meters

WOWO * 10000 1C Ft. Wayne, Ind.
 WWVA * 5000 1C Wheeling, W. Va.

Main Auto Supply Co.
 West Virginia Broadcasting Corp.

1170 kilocycles 256.3 meters

WCAU * 10000 CX Philadelphia, Pa.

Universal Broadcasting Co.

1180 kilocycles 254.1 meters

KEX * 5000 2B Portland, Ore.
 KOB * 20000 2 State College, N. M.
 WDGY * 1000 Dn Minneapolis, Minn.
 WINS * 500 --- New York City
 WMAZ † 500 --- Macon, Ga.

Western Broadcasting Co.
 College of Agriculture X Mech. Arts
 Dr. George W. Young
 American Radio News Corp.
 Southeastern Broadcasting Co., Inc.

1190 kilocycles 252.0 meters

WOAI * 50000 N San Antonio, Texas

Southern Equipment Co.

1200 kilocycles 249.9 meters

CKOV -- 100 --- Kelowna, B. C.
 CMGB -- 7.5 1205 Matanzas, Cuba
 CMJG -- 30 --- Camaguey, Cuba
 KBTM -- 100 D- Paragouid, Ark.
 KERN -- 100 C Bakersfield, Cal.
 KFJE † 100 + Marshalltown, Iowa
 KFWF † 100 5+ St. Louis, Mo.
 KGDE * 100 + Fergus Falls, Minn.
 KGDY † 100 --- Huron, S. D.
 KGEK † 100 9- Yuma, Colo.
 KGWE † 100 9 Fort Morgan, Colo.
 KGFI † 100 --- Los Angeles, Cal.
 KGHI * 100 --- Little Rock, Ark.
 KGY † 100 + Olympia, Wash.
 KMLB † 100 D Monroe, La.
 KVOS * 100 --- Bellingham, Wash.
 KWG * 100 --- Stockton, Cal.
 WABI † 100 --- Bangor, Maine
 WABZ * 100 1- New Orleans, La.
 WBBZ * 100 --- Ponca City, Okla.
 WBHS -- 50 10CP Huntsville, Ala.
 WCAT † 100 --- Rapid City, S. D.
 WCAX * 100 2- Burlington, Vt.
 WCLO † 100 --- Janesville, Wis.
 WCOD † 100 3- Harrisburg, Pa.
 WFAM * 100 8 South Bend, Ind.
 WFBC * 50 10 Knoxville, Tenn.
 WFBE -- 100 + Cincinnati, Ohio
 WHBC -- 10 --- Canton, Ohio
 WHBY † 100 --- Green Bay, Wis.
 WIBX * 100 + Utica, N. Y.
 WIL * 100 5+ St. Louis, Mo.
 WJBC * 100 6 La Salle, Ill.
 WJBL † 100 6 Decatur, Ill.
 WJBW * 100 1- New Orleans, La.
 WKJC * 100 3 Lancaster, Pa.
 WLAP † 250 C Louisville, Ky.
 WLBG * 100 + Petersburg, Va.
 WNBO † 100 --- Washington, Pa.
 WNBW † 10 --- Carbondale, Pa.
 WNBX † 10 2 Springfield, Vt.
 WORC * 100 CX Worcester, Mass.
 WRBL † 50 --- Columbus, Ga.
 WWAE * 100 8 Hammond, Ind.
 10-AB -- 25 --- Moose Jaw, Sask.
 10-BP † 15 --- Wingham, Ont.
 10-BQ -- 15 --- Brantford, Ont.

J. W. B. Browne
 Jose Anorga
 Pedro Nogueras
 W. J. Beard's Temple of Music
 Bee Bakersfield Brdctg Co.
 Marshall Electric Co., Inc.
 St. Louis Truth Center, Inc.
 Jaren Drug Co.
 Voice of South Dakota
 Beehler Elec. Equipment Co.
 City of Fort Morgan
 Ben S. McGlashan
 O. A. Cook
 KGY, Inc.
 Liner's Broadcasting Station, Inc.
 KVOS, Inc.
 Portable Wireless Tel. Co., Inc.
 Pine Tree Broadcasting Corp.
 Samuel D. Reeks
 C. L. Carrell
 The Hutchens Co.
 State School of Mines
 Burlington Daily News
 WCLO Radio Corp.
 Keystone Broadcasting Corp.
 South Bend Tribune
 Virgil V. Evans
 Post Publishing Co.
 St. John's Catholic Church
 St. Norbert's College
 WIBX, Inc.
 Missouri Broadcasting Corp.
 Kaskaskia Broadcasting Co.
 Commodore Broadcasting, Inc.
 Charles C. Carlson, Jr.
 Lancaster Brdctg. Service Inc.
 American Broadcasting Corp. of Ky.
 WLBG, Inc.
 John Brownlee Spriggs
 Home Cut Glass & China Co.
 First Congregational Church
 Alfred Frank Kleindienst
 WRBL Radio Station, Inc.
 Hammond-Calumet, Broad. Corp.
 Moose Jaw Radio Assn.
 W. T. Cruickshank
 Thomas Brown, Mgr.

KCYS.
 1200
 MTRS.
 249.9
 DIAL

CUT OUT ON DOTTED LINE

INDEX BY FREQUENCIES AND DIAL NUMBERS

1210 kilocycles 247.8 meters

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

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Western Ontario "Better Radio" Club
 James S. Neill & Sons, Ltd.
 G. C. Chandler
 R. L. MacAdam
 Donald Lewis Hathaway
 KDLR, Inc.
 KFJI Broadcasters, Inc.
 Howard A. Shuman
 Hirsch Battery & Radio Co.
 J. C. & E. W. Lee
 Greater Kampska Radio Corp.
 Dodge City Broadcasting Co.
 James McClatchy Co.
 Pasadena Presbyterian Church
 Hello World Broadcasting Corp.
 Roy W. Waller
 John H. Stenger, Jr.
 Grace Covenant Pres. Church
 H. L. Dewing & Chas. Messter
 Westchester Broadcasting Corp.
 Clinton R. White
 First Trust & Savings Bank
 Emil Denemark, Inc.
 Harry H. Carman
 Great Southern Land Co., Inc.
 Beardsley Specialty Co.
 Anderson Broadcasting Corp.
 Wm. C. Forrest
 Monmouth Broadcasting Co.
 Bucknell University
 Gadsen Broadcasting Co., Inc.
 Mansfield Broadcasting Assn.
 Lutheran Assn. of Ithaca
 Havens & Martin, Inc.
 Peter J. Prinz
 A. E. Newton
 Francis M. Kadow
 Cherry & Webb Broadcasting Co.
 Stevens Luke
 J. Pat. Scully
 World Battery Co., Inc.
 Columbus Broadcasting Co.
 638 Tire & Vulcanizing Co.
 WSOC, Inc.
 WTAX, Inc.
 Excelsior, Cia Editorial S. A.

1220 kilocycles 245.8 meters

CMBY	--	350	1225	Havana, Cuba
CMCA	--	150	1225	Havana, Cuba
KFKU	*	500	1	Lawrence, Kansas
KTW	*	1000	---	Seattle, Wash.
KWSC	*	1000	+	Pullman, Wash.
WCAD	*	500	D	Canton, N. Y.
WCAE	*	1000	R	Pittsburgh, Pa.
WDAE	*	1000	C	Tampa, Fla.
WREN	*	1000	1B	Lawrence, Kansas

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Callejas-Cosculluela
 Manuel Cruz
 University of Kansas
 First Presbyterian Church
 State College of Washington
 St. Lawrence University
 Pittsburgh Sun-Telegraph
 Tampa Publishing Co.
 Jenny Wren Co.

1230 kilocycles 243.8 meters

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

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Anchorage Radio Club
 New Mexico Broadcasting Co.
 Pacific Broadcasting Corp.
 Shepard Broadcasting Service, Inc.
 Indianapolis Power & Light Co.
 Shepard Broadcasting Service, Inc.
 Pennsylvania State College
 South Bend Tribune
 Carlos G. Caballero

1240 kilocycles 241.8 meters

CMAB	--	20	1249	Pinar del Rio, Cuba
KGCU	--	250	3	Mandan, N. D.
KLPM	†	250	3	Minot, N. D.
KTAT	†	1000	1	Ft. Worth, Texas
KTFI	†	250	1+	Twin Falls, Idaho
WACO	†	1000	1C	Waco, Texas
WXYZ	†	1000	C	Detroit, Mich.

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Francisco Martinez
 Mandan Radio Assn.
 John B. Cooley
 S. A. T. Broadcast Co.
 Radio Broadcasting Corp.
 Central Texas Broadcasting Co., Inc.
 Kunsky-Trendle Broadcasting Corp.

INDEX BY FREQUENCIES AND DIAL NUMBERS

1250 kilocycles 239.9 meters

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

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

1260 kilocycles 238.0 meters

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

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

1270 kilocycles 236.1 meters

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

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

1280 kilocycles 234.2 meters

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

Jorge Garcia Serra
Jose Lorenzo
Buttrey Broadcast, Inc.
City of Camden
Radio Industries Broadcast Co.
WDOD Broadcasting Corp.
Badger Broadcasting Co.
WOAX, Inc.
City of Dallas

1290 kilocycles 232.4 meters

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

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

1300 kilocycles 230.6 meters

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

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

1310 kilocycles 228.9 meters

KCRJ	†	100	D	Jerome, Arizona
KFBK	†	100	---	Sacramento, Cal.
KFGQ	†	100	7	Boone, Iowa
KFJY	†	100	7	Ft. Dodge, Iowa
KFPL	†	100	---	Dublin, Texas
KFFM	*	15	---	Greenville, Texas

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

KCY.S.

1310

MTRS.

228.9

DIAL

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

KFFXJ	↑	100	---	Grand Junction, Colo.	Western Slope Broadcasting Co.
KFXR	↑	100	+	Oklahoma City	Exchange Ave. Baptist Church
KGBX	↑	100	---	St. Joseph, Mo.	KGBX, Inc.
KGCX	↑	100	+	Wolf Point, Mont.	First State Bank of Vida
KGEZ	↑	100	---	Kalispell, Mont.	Donald C. Treloar
KGFW	↑	100	---	Kearney, Nebr.	Central Nebraska Broadcasting Corp.
KIT	↑	100	---	Yakima, Wash.	Carl E. Haymond
KMED	↑	100	---	Medford, Ore.	Mrs. W. J. Virgin
KRMD	↑	50	9	Shreveport, La.	Robert M. Dean
KTLC	*	100	---	Houston, Texas	Houston Broadcasting Co.
KTSM	↑	100	2	El Paso, Texas	W. S. Bledsoe & W. T. Blackwell
KWCR	↑	100	7	Cedar Rapids, Iowa	Cedar Rapids Broadcast Co.
KXRO	↑	100	---	Aberdeen, Wash.	KXRO, Inc.
WBEO	↑	100	---	Marquette, Mich.	Lake Superior Broadcasting Co.
WBOW	*--	100	---	Terre Haute, Ind.	Banks of Wabash, Inc.
WBRE	↑	100	---	Wilkes-Barre, Pa.	Louis G. Baltimore
WCLS	*--	100	1	Joliet, Ill.	WCLS, Inc.
WDAH	↑	100	2	El Paso, Texas	Bledsoe & Blackwell
WEER	*--	100	+	Buffalo, N. Y.	Howell Broadcasting Co., Inc.
WEXL	↑	50	---	Royal Oak, Mich.	Royal Oak Broadcasting Co.
WFBG	*--	100	3X	Altoona, Pa.	Wm. F. Gable Co.
WDFD	*--	100	---	Flint, Mich.	Frank D. Fallain
WFDV	↑	100	D	Rome, Ga.	Rome Broadcasting Corp.
WGAL	*--	100	5	Lancaster, Pa.	WGAL, Inc.
WGH	*--	100	---	Newport News, Va.	Hampton Roads Broadcasting Corp
WHAT	↑	100	4	Philadelphia, Pa.	Independence Broadcasting Co.
WJAC	*--	100	3	Johnstown, Pa.	Johnstown Automobile Co.
WJAK	*--	50	6	Elkhart, Ind.	Truth Publishing Co., Inc.
WKAV	*--	100	---	Laconia, N. H.	Laconia Radio Club
WKBB	*--	100	1	Joliet, Ill.	Sanders Bros. Radio Station
WKBC	*--	100	---	Birmingham, Ala.	R. B. Broyles Furniture Co
WKBS	*--	100	---	Galesburg, Ill.	Permil N. Nelson
WLBC	↑	50	6	Muncie, Ind.	Donald A. Burton
WMBO	↑	100	---	Auburn, N. Y.	WMBO, Inc.
WNBH	*--	100	---	New Bedford, Mass.	New Bedford Broadcasting Co.
WOL	*--	100	---	Washington, D. C.	American Broadcasting Co.
WRAW	*--	100	5X	Reading, Pa.	Reading Broadcasting Co.
WRAL	↑	100	---	Knoxville, Tenn.	Stewart Broadcasting Co.
WSAJ	*--	100	---	Grove City, Pa.	Grove City College
WSJS	*--	100	---	Winston-Salem, N. C.	Winston-Salem Journal Co.
WTEL	*--	100	4	Philadelphia, Pa.	Foulkrod Radio Engineering Co.
WTJS	↑	100	+	Jackson, Tenn.	Sun Publishing Co.
WTSL	--	100	9	Laurel, Miss.	G. A. Houseman
XEFB	--	50	1315	Monterrey, N. L.	Quintanilla y Stevenson

1320 kilocycles 227.1 meters

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

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C. P. Ritchie & J. E. Finch
Honolulu Broadcasting Co., Ltd.
KID Broadcasting Co.
Allen T. Simmons
WSMB, Inc.

1330 kilocycles 225.4 meters

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

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Don Lee, Inc.
Perkins Bros. Co.
WDRG, Inc.
Crosley Radio Corp., Lessee
Gillette Rubber Co.

1340 kilocycles 223.7 meters

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

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Jose Justo Moran
Aurelio Hernandez
M. D. Autran
Southwestern Hotels. Co.
Symons Broadcasting Co.
Pensacola Broadcasting Co.
Toledo Broadcasting Co.

1350 kilocycles 222.1 meters

KIDO	↑	1000	--	Boise, Idaho	
KWK	*--	1000	B	St. Louis, Mo.	Boise Broadcasting Station
WAWZ	*	250	1	Zarephath, N. J.	Greater St. Louis Brdcstg Corp.
WBNX	--	250	1a	New York City	Pillar of Fire
WCDA	*--	250	1	New York City	Standard Cahill Co., Inc.
WEHC	*--	500	D	Emory, Va.	Italian Educ. Broadcasting Co., Inc.
WMSG	--	250	1a	New York City	Emory & Henry College
					Madison Sq. Garden Brdctg. Corp.

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Boise Broadcasting Station
Greater St. Louis Brdcstg Corp.
Pillar of Fire
Standard Cahill Co., Inc.
Italian Educ. Broadcasting Co., Inc.
Emory & Henry College
Madison Sq. Garden Brdctg. Corp.

INDEX BY FREQUENCIES AND DIAL NUMBERS

1360 kilocycles 220.4 meters

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

Consolidated Broadcasting Corp.		
KGIR, Inc.		
South Carolina Broadcasting Co., Inc.		
Onondaga Radio Broadcasting Corp.		
Oak Leaves Broadcasting Station, Inc.		
Johnson-Kennedy Radio Corp.		
Delta Broadcasting Co., Inc.		

1370 kilocycles 218.7 meters

CMAC	--	30	1375	Pinar del Rio, Cuba
CMGE	--	30	1375	Cardenas, Cuba
CMGH	--	150	---	Matanzas, Cuba
HRB	--	2300	---	Tegucigalpa, Hond.
KCRC	†	100	2+	Enid, Okla.
KFBL	*	50	3	Everett, Wash.
KFJM	†	100	---	Grand Forks, N. D.
KFJZ	†	100	---	Ft. Worth, Texas
KFLX	--	100	---	Galveston, Texas
KGAR	*	100	+	Tucson, Arizona
KGDA	†	100	---	Mitchell, S. D.
KGFG	†	100	2	Oklahoma City
KGFL	†	50	4	Raton, N. M.
KGKL	†	100	---	San Angelo, Texas
KICA	†	100	4CP	Clovis, N. Mex.
KMAC	†	100	5	San Antonio, Texas
KONO	†	100	5	San Antonio, Texas
KOOS	†	100	---	Marshfield, Ore.
KRE	†	100	---	Berkeley, Cal.
KUJ	†	100	---	Walla Walla, Wash.
KVL	--	100	3	Seattle, Wash.
KWKC	--	100	---	Kansas City, Mo.
WBGF	†	50	---	Glens Falls, N. Y.
WBTM	†	100	7	Danville, Va.
WCBM	†	100	+Z	Baltimore, Md.
WDAS	†	100	+	Philadelphia, Pa.
WGL	†	100	C	Fort Wayne, Ind.
WHBD	†	100	---	Mount Orab, Ohio
WHBQ	†	100	---	Memphis, Tenn.
WHDF	†	100	+	Calumet, Mich.
WIBM	†	100	1	Jackson, Mich.
WJBK	*	50	1	Detroit, Mich.
WJTL	--	100	---	Atlanta, Ga.
WLEY	†	100	+	Lexington, Mass.
WLVA	†	100	7	Lynchburg, Va.
WMBR	†	100	---	Tampa, Fla.
WPFB	†	100	---	Hattiesburg, Miss.
WQDM	†	100	D	St. Albans, Vt.
WRAC	*	100	---	Williamsport, Pa.
WRAM	*	100	---	Wilmington, N. C.
WRDO	†	100	---	Augusta, Maine
WRJN	--	100	---	Racine, Wis.
WSVS	*	50	---	Buffalo, N. Y.

Oscar S. Mechoso		
Genaro Sebater		
Alberto Alvarez		
United Fruit Co.		
Enid Radiophone Co.		
Leese Bros.		
University of North Dakota		
Ralph S. Bishop		
George Roy Clough		
Tucson Motor Service Co.		
Mitchell Broadcasting Corp.		
Oklahoma Broadcasting Co., Inc.		
KGFL, Inc.		
KGKL, Inc.		
W. E. Whitmore		
W. W. McAllister		
Mission Broadcasting Co.		
H. H. Hanseth, Inc.		
First Congregational Church		
KUJ, Inc.		
KVL, Inc.		
Wilson Duncan Broadcasting Co.		
W. N. Parker and H. H. Metcalfe		
Piedmont Broadcasting Corp.		
Baltimore Broadcasting Corp.		
WDAS Broadcasting Station, Inc.		
Fred Z. Zieg		
F. P. Moler		
Broadcasting Station WHBQ, Inc.		
Upper Michigan Broadcasting Co.		
WIBM, Inc.		
James F. Hopkins, Inc.		
Oglethorpe University		
Lexington Air Stations		
Lynchburg Broadcasting Corp.		
F. J. Reynolds		
Hattiesburg Broadcasting Co.		
A. J. St. Antoine		
C. R. Cummins		
Wilmington Radio Association		
WRDO, Inc.		
Racine Broadcasting Corp.		
Seneca Vocational School		

1380 kilocycles 217.3 meters.

CMJC	--	150	1382	Camaguey, Cuba
KOH	†	500	C	Reno, Nevada
KQV	†	500	2	Pittsburgh, Pa.
KSO	*	500	1	Clarinda, Iowa
KWBH	*	1000	1C	La Crosse, Wis.
WSMK	*	200	2	Dayton, Ohio
XETB	--	125	---	Torreón, Coah.

Feliciano Isaac		
The Bee, Inc.		
KQV Broadcasting Co.		
Iowa Broadcasting Co.		
KWBH, Inc.		
Stanley M. Krohn, Jr.		
Jose A. Berumen		

KCYS.
1400
MTRS.
214.2
DIAL

1390 kilocycles 215.7 meters

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

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

1400 kilocycles 214.2 meters

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

Francisco Mayorquim		
Armado Romeu		
Hernani Torralbas		

CUT OUT ON
DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

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

Martinez-Madico
 Interstate Broadcasting Corp.
 College for Women
 Purdue University
 Brooklyn Broadcasting Corp.
 U. S. Broadcasting Corp.
 General Broadcasting Corp.
 Paramount Broadcasting Co.
 Indianapolis Broadcasting, Inc.
 The Voice of Brooklyn, Inc.
 La Voz Latino

1410 kilocycles 212.6 meters

KFLV	†	500	4	Rockford, Ill.
KGRS	*	1000	1	Amarillo, Texas
WAAB	*	500	C	Boston, Mass.
WBEM	*	500	C	Bay City, Mich.
WDAG	*	1000	1	Amarillo, Texas
WHBL	*	500	4	Sheboygan, Wis.
WHIS	†	250	2	Bluefield, W. Va.
WODX	*	500	3C	Mobile, Ala.
WREX	*	250	2	Roanoke, Va.
WSFA	†	500	3C	Montgomery, Ala.

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

1420 kilocycles 211.1 meters

KABC	†	100	---	San Antonio, Texas
KBPS	--	100	4	Portland, Ore.
KCMC	--	100	---	Texarkana, Ark.
KFIZ	*	100	---	Fond du Lac, Wis.
KFXD	*	100	---	Nampa, Idaho
KFX Y	--	100	---	Flagstaff, Arizona
KFY O	†	100	+ YZ	Abilene, Texas
KGFF	†	100	---	Shawnee, Okla.
KGGC	†	100	5	San Francisco, Cal.
KGIW	†	100	---	Trinidad, Colo.
KGIX	†	100	---	Las Vegas, Nevada
KGK X	†	100	---	Sand Point, Idaho
KGVO	†	100	D	Missoula, Montana
KICK	*	100	---	Red Oak, Iowa
KORE	*	100	---	Eugene, Ore.
KXL	*	100	4	Portland, Ore.
KX YZ	--	100	---	Houston, Texas
WAGM	--	100	---	Presque Isle, Maine
WDEV	--	50	D	Waterbury, Vt.
WEHS	--	100	a	Cicero, Ill.
WELL	†	50	X	Battle Creek, Mich.
WERE	*	100	---	Erie, Pa.
WFDW	*	100	---	Anniston, Ala.
WHDL	*	100	D	Tupper Lake, N. Y.
WHFC	--	100	a	Cicero, Ill.
WIAS	†	100	---	Ottumwa, Iowa
WILM	*	100	---	Wilmington, Del.
WJBO	*	100	---	New Orleans, La.
WJMS	--	100	D	Ironwood, Mich.
WKBI	*	100	a	Cicero, Ill.
WLB F	†	100	---	Kansas City, Kansas
WMBC	*	100	+	Detroit, Mich.
WMBH	--	100	+	Joplin, Mo.
WPAD	†	100	---	Paducah, Ky.
WSPA	*	100	+	Spartanburg, S. C.
WTBO	*	100	+	Cumberland, Md.
-----	--	100	D	Americus, Ga.

Alamo Broadcasting Co.
 Benson Polytechnic Institute
 North Mississippi Broadcasting Corp.
 Reporter Printing Co.
 Frank E. Hurt
 Albert H. Scherman
 T. E. Kirksey
 KGFF Broadcasting Co.
 Golden Gate Broadcasting Co.
 Leonard E. Wilson
 Las Vegas, Nevada, Radio Corp.
 W. W. Von Cannon, Trustee
 Mosby's Incorporated
 Red Oak Radio Corp.
 Eugene Broadcasting Station
 KXL Broadcasters, Inc.
 Harris County Broadcast Co.
 Aroostook Broadcasting Corp.
 Harry C. Whitehill
 WEHS, Inc.
 Enquirer-News Co.
 Erie Dispatch-Herald
 Raymond G. Hammett
 Tupper Lake Broadcasting Co. Inc.,
 WHFC, Inc.
 Iowa Broadcasting Co.
 Delaware Broadcasting Co., Inc.
 Valdemar Jensen
 Marius Johnson
 WKBI, Inc.
 WLB F Broadcasting Co.
 Michigan Broadcasting Co., Inc.
 Edwin Dudley Aber
 Paducah Broadcasting Co.
 Voice of South Carolina
 Associated Broadcasting Corp.
 Americus Broadcast Co.

1430 kilocycles 209.7 meters

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

Earle C. Anthony, Inc.
 Great Plains Broadcasting Co.
 Penna. State Police
 Commercial Radio Service Co.
 New Hampshire Broadcasting Co.
 WHFC, Inc.
 WHP, The Harrisburg Telegraph
 Memphis Broadcasting Co.
 WOKO, Inc.

1440 kilocycles 208.2 meters

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

Warner Bros.
 North Carolina Broadcasting Co.

INDEX BY FREQUENCIES AND DIAL NUMBERS

WCBA	*	250	a	Allentown, Pa.
WMBD	*	500	3+C	Peoria Heights, Ill.
WSAN	*	250	a	Allentown, Pa.
WTAD	†	500	3	Quincy, Ill.

B. B. Musselman
Peoria Broadcasting Co.
Allentown Call Publishing Co., Inc.
Illinois Broadcasting Corp.

1450 kilocycles 206.8 meters

KTBS	*	1000	N	Shreveport, La.
WBMS	†	250	1	Hackensack, N. J.
WGAR	†	500	B	Cleveland, Ohio
WHOM	*	500	1	Jersey City, N. J.
WNJ	*	250	1	Newark, N. J.
WSAR	*	250	---	Fall River, Mass.
WTFI	--	500	---	Athens, Ga.

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Tri-State Broadcasting System, Inc.
WBMS Broadcasting Corp.
WGAR Broadcasting Co.
New Jersey Broadcasting Corp.
Radio Investment Co.
Doughty & Welch Electric Co., Inc.
Toccoa Falls Broadcasting Co.

1460 kilocycles 205.4 meters

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

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National Battery Broadcasting Co.
WJSV, Inc.

1470 kilocycles 204.0 meters

KGA	†	5000	B	Spokane, Wash.
WLAC	*	5000	C	Nashville, Tenn.

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Northwest Broadcasting System, Inc.
Life & Casualty Insurance Co.

1480 kilocycles 202.6 meters

KFJF	*	5000	C	Oklahoma City
WKBW	*	5000	C	Buffalo, N. Y.

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National Radio Mfg. Co.
Buffalo Broadcasting Co., Lessees

1490 kilocycles 201.2 meters

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

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Midland Broadcasting Company
L. B. Wilson, Inc.

1500 kilocycles 199.9 meters

CMBL	--	20	---	Havana, Cuba
CMBQ	--	50	---	Havana, Cuba
CMBR	--	15	---	Havana, Cuba
KDB	*	100	C	Santa Barbara, Cal.
KGFI	*	100	+	Corpus Christi, Texas
KGFK	†	50	---	Moorhead, Minn.
KGIZ	†	100	---	Grant City, Mo.
KGKB	--	100	---	Tyler, Texas
KGKY	*	100	---	Scottsbluff, Nebr.
KNOW	†	100	---	Austin, Texas
KPJM	*	100	---	Prescott, Arizona
KPQ	†	50	---	Wenatchee, Wash.
KREG	†	100	---	Santa Ana, Cal.
KXO	*	100	---	El Centro, Cal.
WKBV	*	100	+	Connersville, Ind.
WKBZ	†	50	---	Ludington, Mich.
WLBX	*	100	1	Long Island City, N. Y.
WLOE	*	100	+	Boston, Mass.
WMBA	†	100	---	Newport, R. I.
WMBQ	*	100	1	Brooklyn, N. Y.
WMIL	†	100	1	Brooklyn, N. Y.
WMPC	†	100	---	Lapeer, Mich.
WNBF	*	100	---	Binghamton, N. Y.
WOP1	*	100	---	Bristol, Tenn.
WPEN	*	100	+	Philadelphia, Pa.
WRDW	*	100	---	Augusta, Ga.
WSYB	†	100	---	Rutland, Vt.
WWRL	*	100	1	Woodside, N. Y.
WWSW	*	100	---	Pittsburgh, Pa.
XETZ	--	100	---	Coyoacan, D. F.

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Julio C. Hidalgo
Gali-Sardinas
Tomas Basail
Santa Barbara Broadcasters, Ltd.
Eagle Broadcasting Co., Inc.
Red River Broadcasting Co., Inc.
Grant City Park Corp.
East Texas Brdcstg. Co.
Hilliard Co., Inc.
KNOW Broadcasting Co.
A. P. Miller
Wescoast Broadcasting Co.
J. S. Edwards
E. R. Irey and F. M. Bowles
Knox Battery & Electric Co.
K. L. Ashbacher
John N. Brahy
Boston Broadcasting Co.
LeRoy Joseph Beebe
Paul J. Gollhofer
Arthur Fasse
First M. P. Church
Howitt, Wood Radio Co., Inc.
Radiophone Brdcstg. Station, Inc.
Wm. Penn Broadcasting Co.
Musicove, Inc.
Philip Weiss Music Co.
Long Island Broadcasting Corp.
Walker & Downing Radio Corp.
Manuel Zetina

KCYS.
1500
MTRS.
199.9
DIAL

INDEX BY LOCATIONS WITH MAP KEY

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

ALABAMA

	Watts		Kcys.
Anniston O-22	100	WFDW	1420
Birmingham O-21	5000	WAPI N	1140
	500	WBRC C	930
	100	WKBC	1310
Gadsden O-21	100	WJBY	1210
Huntsville N-21	50	WBHS	1200
Mobile Q-20	500	WODX C	1410
Montgomery P-21	500	WSFA C	1410

ALASKA

Anchorage	100	KFQD	1230
Ketchikan	500	KGBU	900

ARIZONA

Flagstaff M-7	100	KFXV	1420
Jerome M-6	100	KCRJ	1310
Phoenix N-6	500	KOY C	1390
	500	KTAR N	620
Prescott M-6	100	KPJM	1500
Tucson O-7	100	KGAR	1370
	500	KVOA	1260

ARKANSAS

Blytheville M-19	50	KLCN	1290
Fayetteville M-16	1000	KUOA	1390
Fort Smith N-16	50	KFPW	1340
Hot Springs N-17	10000	KTHS N	1040
Little Rock N-17	250	KARK	890
	100	KGHI	1200
	1000	KLRA C	1390
Paragould M-18	100	KBTM	1200
Texarkana O-17	100	KCMC	1420

CALIFORNIA

Bakersfield L-3	100	KERN C	1200
Berkeley J-2	100	KRE	1370
Beverly Hills M-3	500	KMPC	710
Burbank M-3	500	KELW	780
Culver City M-3	250	KFVD	1000
El Centro N-4	100	KXO	1500
Fresno K-2	100	KMJ	1210
Hollywood M-3	1000	KFWB	950
	500	KMTR	570
	5000	KNX	1050
Long Beach M-3	1000	KFOX	1250
	1000	KGER	1360
Los Angeles M-3	1000	KECA N	1430
	1000	KFAC	1300
	50000	KFI N	640
	500	KFSG	1120
	100	KGJ	1200
	1000	KHJ C	900
	500	KRKD	1120
	500	KTM	780
Oakland J-1	250	KLS	1440
	500	KLX	880
	500	KROW	930
Pasadena M-3	50	KPPC	1210
Sacramento J-2	100	KFBK	1310
San Bernardino M-3	100	KFXM	1210
San Diego N-3	500	KFSD N	600
	500	KGB C	1330
San Francisco J-1	1000	KFRC C	610
	500	KFWI	930
	100	KGGC	1420
	7500	KGO N	790
	100	KJBS	1070
	5000	KPO N	680
	1000	KTAB	560
	1000	KYA	1230

San Jose J-1	500	KOW	1010
Santa Ana M-3	100	KREG	1500
Santa Barbara M-2	100	KDB C	1500
Stockton J-2	250	KGDM	1100
	100	KWQ	1200

Holy City

COLORADO

Colorado Springs K-11	1000	KVOR C	1270
Denver K-11	500	KFEL	920
	500	KFFX	920
	1000	KLZ C	560
	12500	KOA N	830
	500	KPOF	880
Fort Morgan J-11	100	KGEW	1200
Grand Junction K-9	100	KFXJ	1310
Greeley J-11	500	KFKA	880
Pueblo L-11	250	KGHF	1370
Trinidad L-11	100	KGIW	1420
Yuma J-12	100	KGEK	1200

CONNECTICUT

Bridgeport H-27	250	WICC	600
Hartford H-27	500	WDRG C	1330
	50000	WTIC R	1060
Storrs H-28	250	WCAC	600

DELAWARE

Wilmington J-26	250	WDEL	1120
	100	WILM	1420

DISTRICT OF COLUMBIA

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

FLORIDA

Clearwater R-24	1000	WFLA N	620
Gainesville Q-24	5000	WRUF	830
Jacksonville Q-24	1000	WJAX N	900
Miami T-25	1000	WIOD N	1300
	1000	WQAM C	560
Orlando R-24	250	WDBO C	1120
Pensacola Q-21	500	WCOA	1340
St. Petersburg S-24	1000	WSUN N	620
Tampa R-24	1000	WDAE C	1220
	100	WMBR	1370

GEORGIA

Americus P-22	100	-----	1420
Athens O-23	500	WTFI	1450
Atlanta O-22	250	WGST C	890
	100	WJTL	1370
	5000	WSB N	740
	100	WRDW	1500
Augusta O-23	50	WRBL	1200
Columbus O-22	500	WMAZ	1180
Macon O-23	100	WFDV	1310
Rome N-22	500	WTOG C	1260
Savannah O-24	100	WQDX	1210
Thomasville Q-22	100		

HAWAII

Honolulu	250	KGMB C	1320
	1000	KGU R	940

IDAHO

Boise G-5	1000	KIDO	1350
Idaho Falls G-7	250	KID	1320
Nampa G-5	100	KFXD	1420
Pocatello H-7	250	KSEL	900
Sand Point D-6	100	KGKX	1420
Twin Falls H-6	250	KTFI	1240

INDEX BY LOCATIONS WITH MAP KEY

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

ILLINOIS			Shenandoah J-16		
	Watts	Keys.			
Carthage J-18	50	WCAZ	500	KFNF	890-
Chicago I-20	10000	KFKX N	500	KMA	930-
	10000	KYW N	1000	KSCJ C	1330-
	500	WAAF	500	WMT C	600-
	25000	WBBM C	KANSAS		
	1500	WCFL R	Dodge City L-13	100	KGNO
	5000	WCHI	Kansas City K-16	100	WLBF
	100	WCRW	Lawrence K-16	500	KFKU
	100	WEDC		1000	WREN B
	50000	WENR N	Manhattan K-15	500	KSAC
	500	WGES	Milford K-14	5000	KFBI
	25000	WGN C	Topeka K-16	1000	WIBW C
	1000	WIBO	Wichita L-15	1000	KFH C
	50000	WLS B			
	5000	WMAQN	KENTUCKY		
	5000	WMBI	Covington K-22	5000	WCKY N
	500	WPCC	Hopkinsville M-20	1000	WFTW C
	100	WBCB	Louisville L-21	10000	WHAS N
	100	WBHS		250	WLAP C
	100	WHFC	Paducah M-19	100	WPAD
	100	WKBI			
	100	WJBL	LOUISIANA		
	100	WKBS	Monroe P-18	100	KMLB
	100	WEBQ	New Orleans R-19	100	WABZ
	100	WCLS		1000	WDSU C
	100	WKBB		100	WJBO
	100	WJBC		100	WJBW
	20000	WJJD		500	WSMB N
	500	WMBD C		10000	WWL
	500	WTAD		50	KRMD
	500	KFLV		1000	KTBS N
	500	WHBF		100	KWEA
	100	WCBS		10000	KWKH
	100	WTAX			
	100	WDZ	MAINE		
	250	WILL	Augusta F-28	100	WRDO
	5000	WCBD	Bangor F-29	100	WABI
				500	WLBZ C
				1000	WCBS R
				100	WAGM
			MARYLAND		
			Baltimore J-26	10000	WBAL B
				250	WCAO C
				100	WCBM
				500	WFBR R
				100	WTBO
			MASSACHUSETTS		
			Boston G-28	500	WAAB C
				1000	WBIS
				25000	WBZ B
				1000	WEEI R
				1000	WHDH
				100	WLOB
				1000	WNAC C
				250	WSAR
				100	WLEY
				500	WBSO
				100	WNBH
				1000	WBZA B
				100	WORC C
				250	WTAG R
			MICHIGAN		
			Battle Creek I-21	50	WELL
			Bay City H-22	500	WBCM C
			Calumet E-19	100	WHDF
			Detroit H-22	50	WJBK
				10000	WJR B
				100	WMBC

INDEX BY LOCATIONS WITH MAP KEY

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

Detroit H-22	1000	WWJ	R	920
	1000	WXYZ	C	1240
East Lansing H-21	1000	WKAR		1040
Flint H-22	100	WFDF		1310
Grand Rapids H-21	500	WASH		1270
	500	WOOD		1270
Ironwood F-18	100	WJMS		1420
Jackson I-21	100	WIBM		1370
Kalamazoo I-21	1000	WKZO		590
Lapeer H-22	100	WMPC		1500
Ludington H-20	50	WKBZ		1500
Marquette F-19	100	WBEO		1310
Royal Oak H-22	50	WEXL		1310

MINNESOTA

Fergus Falls F-15	100	KGDE		1200
Minneapolis G-17	5000	WCCO	C	810
	1000	WDGJ		1180
	1000	WRHM		1250
Moorhead F-15	50	KGFK		1500
Northfield G-17	1000	KFMX		1250
	1000	WCAL		1250
St. Paul G-17	1000	WLB		1250
	10000	KSTP	N	1460

MISSISSIPPI

Greenville O-18	100	WRBQ		1210
Gulfport Q-19	100	WGCM		1210
Hattiesburg Q-19	100	WPFB		1370
Jackson P-19	1000	WJDX	N	1270
Laurel P-20	100	WTSL		1310
Meridian P-20	500	WCOC		880
Vicksburg P-18	500	WQBC		1360
Tupelo		WDIX		

MISSOURI

Cp. Girardeau L-19	100	KFVS		1210
Columbia K-17	500	KFRU		630
Grant City J-16	100	KGIZ		1500
Jefferson City L-17	500	WOS		630
Joplin M-16	100	WMBH		1420
Kansas City K-16	100	KMBC	C	950
	100	KWKC		1370
	100	WDAF	N	610
	500	WHB		860
	1000	WOO		1300
St. Joseph K-16	2500	KFEQ		680
	100	KBFX		1310
St. Louis L-18	500	KFUO		550
	100	KFWF		1200
	50000	KMOX	C	1090
	500	KSD	R	550
	1000	KWK	B	1350
	1000	WEW		760
	100	WIL		1200

MONTANA

Billings F-9	1000	KGHL	N	950
Butte F-7	500	KGIR	N	1360
Great Falls E-8	1000	KFBB		1280
Kalispell D-7	100	KGZE		1310
Missoula E-7	100	KGVO		1420
Wolf Point E-11	100	KGCX		1310

NEBRASKA

Clay Center J-14	1000	KMMJ		740
Kearney J-14	100	KGFW		1310
Lincoln J-15	5000	KFAB	C	770
	100	KFOR		1210
	500	WCAJ		590
Norfolk I-15	1000	WJAG		1060
North Platte J-13	500	KGNF		1430
Omaha J-15	500	WAAW		660
	1000	WOW	N	590
Scottsbluff I-11	100	KGKY		1500
York J-15	500	KGBZ		930

NEVADA

Las Vegas L-5	100	KGIX		1420
Reno I-3	500	KOH	C	1380

NEW HAMPSHIRE

Laconia G-28	100	WKAV		1310
Manchester G-28	500	WFEA	C	1430
Portsmouth G-28	250	WHEB		740

NEW JERSEY

Asbury Park I-27	500	WCAP		1280
Atlantic City J-27	5000	WPG	C	1100
Camden I-26	500	WCAM		1280
Hackensack I-27	250	WBMS		1450
Jersey City I-27	300	WAAT		940
	500	WHOM		1450
Newark I-27	1000	WAAM		1250
	250	WGCP		1250
	250	WNJ		1450
	500	WOR		710
Paterson I-27	1000	WODA		1250
Red Bank I-27	100	WJBI		1210
Trenton I-26	500	WOAX		1280
Zarephath I-27	250	WAWZ		1350

NEW MEXICO

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

NEW YORK

Albany H-27	500	WOKO	C	1430
Auburn H-25	100	WMBO		1310
Binghamton H-26	100	WNBF		1500
Brooklyn I-27	500	WBBC		1400
	1000	WBBR		1300
	500	WCGU		1400
	500	WFOX		1400
	500	WLTH		1400
	100	WMBQ		1500
	100	WMIL		1500
Buffalo H-24	1000	WBEN	R	900
	100	WEBR		1310
	1000	WGR	C	550
	5000	WKBW	C	1480
	50	WSVS		1370
Canton F-26	500	WCAD		1220
Freeport I-27	100	WGBB		1210
Glens Falls G-27	50	WBGF		1370
Ithaca H-25	1000	WEAI		1270
	50	WLCI		1210
Jamaica H-27	100	WMRJ		1210
Jamestown H-24	50	WOCL		1210
Long Island City I-27	100	WLBX		1500
New York City I-27	50000	WABC	C	860
	250	WBXX		1350
	50000	WBOQ		860
	250	WCDA		1350
	50000	WEAF	R	660
	500	WEVD		1300
	500	WINS		1180
	1000	WHAP		1300
	250	WHN		1010
	30000	WJZ	B	760
	5000	WLWL		1100
	500	WMCA		570
	250	WMSG		1350
	500	WNYC		570
	1000	WOV		1130
	250	WPAP		1010
	500	WPCH		810
	250	WQAO		1010
	250	WRNY		1010

INDEX BY LOCATIONS WITH MAP KEY

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

Rochester G-25	5000	WHAM	B	1150-
	500	WHEC	C	1430
Saranac Lake F-26	50	WNBZ		1290
Schenectady G-27	50000	WGY	R	790-
Syracuse G-25	1000	WFBL	C	1360
	250	WMAC		570
	250	WSYR		570
Troy G-27	500	WHAZ		1300-
Tupper Lake F-26	100	WHDL		1420-
Utica G-26	100	WIBX		1200
Woodside I-27	100	WWRL		1500-
Yonkers I-27	100	WCOH		1210

NORTH CAROLINA

Asheville M-23	1000	WWNC	N	570
Charlotte M-24	5000	WBT	C	1080
Gastonia M-24	100	WSOC		1210-
Greensboro M-24	500	WBGJ	C	1440
Raleigh M-25	1000	WPTF	N	680-
Wilmington N-26	100	WRAM		1370
Winston-Salem M-24	100	WSJS		1310-

NORTH DAKOTA

Bismarck F 13	1000	KFYR	N	550-
Devils Lake E-14	100	KDLR		1210
Fargo F-15	1000	WDAY	N	940-
Grand Forks E-15	100	KFJM		1370-
Mandan F-13	250	KGCU		1240-
Minot E-13	250	KLPM		1240-

OHIO

Akron I-23	1000	WADC	C	1320
Canton I-23	10	WHBC		1200
Cincinnati K-22	100	WBFE		1200
	1000	WKRC	C	550-
	50000	WLW	B	700-
	500	WSAI	R	1330-
Cleveland I-23	500	WGAR	B	1450-
	1000	WHK	C	1390-
	500	WJAY		610-
	50000	WTAM	R	1070-
Columbus J-22	500	WAIU	C	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
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-
S. Coffeyville M-15	500	KGGF		1010-
Shawnee N-15	100	KGFF		1420-
Tulsa M-15	5000	KVOO	N	1140-
Elk City	100	K&MP		-

OREGON

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

Portland E-3	5000	KEX	R	1180-
	100	KBPS		1420
	500	KFJR		1300
	1000	KGW	N	620-
	1000	KOIN	C	940-
	500	KTBR		1300
	500	KWJJ		1060-
	100	KXL		1420-

PENNSYLVANIA

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

PHILIPPINES

Cebu	500	KZRC		937.5
Manila	1000	KZKA		1110
	1000	KZRM		618.5

PORTO RICO

San Juan W-34	250	WKAQ		890
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RHODE ISLAND

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

SOUTH CAROLINA

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

INDEX BY LOCATIONS WITH MAP KEY

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

SOUTH DAKOTA		Watts	Kcys.
Brookings H-15	500	KFDY	550-
Huron H-14	100	KGDY	1200-
Mitchell H-14	100	KGDA	1370
Pierre G-13	200	KGFX	580
Rapid City H-12	100	WCAT	1200
Sioux Falls H-15	2500	KSOO	1110-
Vermillion I-15	500	KUSD	890-
Watertown G-15	100	KGCR	1210-
Yankton I-15	1000	WNAX	C 570-

TENNESSEE

Bristol L-23	100	WOPI	1500-
Chattanooga N-21	1000	WDOD	C 1280-
Jackson N-20	100	WTJS	1310-
Knoxville M-22	50	WFBC	1200
	1000	WNOX	C 560
	100	WROL	1310-
Memphis N-19	100	WHBQ	1370
	500	WMC	N 780-
	500	WNBR	1430-
	500	WREC	C C 600-
Nashville M-21	5000	WLAC	N 1470-
	5000	WSM	N 650-
Springfield M-20	100	WSIX	1210-
Memphis		W&BC	

TEXAS

Abilene P-13	100	KFYO	1420-
Amarillo N-12	1000	KGRS	1420-
	1000	WDAG	1410-
Austin Q-14	100	KNOW	1500-
Beaumont R-17	500	KFDM	560-
Brownsville U-15	500	KWWG	1260-
College Sta. Q-15	500	WTAW	1120-
Corpus Christi S-14	100	KGFI	1500-
Dallas P-15	10000	KRLD	C N 1040-
	50000	WFAA	C 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 Q-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-
San Angelo Q-13	100	KGKL	1370-
San Antonio R-14	100	KABC	1420-
	100	KMAC	1370-
	100	KONO	1370-
	1000	KTSA	C 1290-
	50000	WOAI	N 1190-
Tyler P-16	100	KGKB	1500
Waco Q-15	1000	WACO	C 1240-
Wichita Falls O-14	250	KGKO	570-

UTAH

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

VERMONT

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

VIRGINIA		Watts	Kcys.
Alexandria K-26	10000	WJSV	1460-
Arlington J-25	1000	NAA	690
Danville L-25	100	WBTM	1370-
Emory L-23	500	WEHC	1350-
Lynchburg L-25	100	WLVA	1370
Newport News L-26	100	WGH	1310-
Norfolk L-26	500	WPOR	780
	500	WTAR	C 780
Petersburg L-26	100	WLBG	1200-
Richmond K-26	100	WBBL	1210-
	100	WMBG	C 1210-
	5000	WRVA	C N 1110-
Roanoke L-24	250	WDBJ	C 930
	250	WRBX	1410-

WASHINGTON

Aberdeen D-2	100	KXRO	1310-
Bellingham C-3	100	KVOS	1200
Everett C-3	50	KFBL	1370
Olympia D-3	100	KG Y	1200
Pullman E-5	1000	KWSC	1220-
Seattle C-3	5000	KJR	R 970-
	1000	KOL	C 1270-
	1000	KOMO	N 920-
	100	KPCB	650-
	50	KRSC	1120-
	1000	KTW	1220
	100	KVL	1370.
	500	KXA	570
Spokane D-5	100	KFIO	1120-
	1000	KFPY	C 1340-
	5000	KGA	R N 1470-
	1000	KHQ	N 590-
Tacoma D-3	500	KMO	860
	1000	KVI	C 760
Walla Walla E-5	100	KUJ	1370-
Wenatchee D-4	50	KPQ	1500-
Yakima D-4	100	KIT	1310

WEST VIRGINIA

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

WISCONSIN

Eau Claire G-18	1000	WTAQ	C 1330-
Fond du Lac H-19	100	KFIZ	1420
Green Bay G-19	100	WHBY	1200-
Janesville I-19	100	WCBO	1200-
La Crosse H-18	1000	WBKH	C 1380-
Madison H-19	750	WHA	940-
	500	WIBA	N 1280-
Manitowoc H-20	100	WOMT	1210
Milwaukee H-19	250	WHAD	1120-
	250	WISN	C 1120
	1000	WTMJ	N 620-
Poynette H-19	100	WBU	1210-
Racine I-20	100	WRJN	1370
Sheboygan H-20	500	WHBL	1410
Stevens Point G-19	2000	WLBL	900
Superior F-17	1000	WEBC	N 1290-

WYOMING

Casper H-10	100	KDFN	1210-
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CANADA

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

CFAC 690	CKCI 645	CMCA 1225	CNRL 910
Calgary, Alta.	Quebec, Que.	Havana, Cuba	London, Ont.
CFBO 890	CKCK 960	CMCB 1070	CNRM 730
St. John, N. B.	Regina, Sask.	Havana, Cuba	Montreal, Que.
CFCA 1120	CKCL 580	CMCD 925	CNRO 600
Toronto, Ont.	Toronto, Ont.	Havana, Cuba	Ottawa, Ont.
CFCF 1030	CKCO 890	CMCF 890	CNRQ 880
Montreal, Que.	Ottawa, Ont.	Havana, Cuba	Quebec, Que.
CFCH 930	CKCR 645	CMCG 1345	CNRR 960
North Bay, Ont.	Waterloo, Ont.	Havana, Cuba	Regina, Sask.
CFCL 580	CKCV 880	CMCH 1405	CNRS 910
Toronto, Ont.	Quebec, Que.	Havana, Cuba	Saskatoon, Sask.
CFCN 985	CKFC 730	CMCJ 630	CNRT 1120
Calgary, Alta.	Vancouver, B. C.	Havana, Cuba	Toronto, Ont.
CFCO 1210	CKGW 840	CMCM 1405	CNRY 1030
Chatham, Ont.	Toronto, Ont.	Havana, Cuba	Vancouver, B. C.
CFCT 630	CKIC 1010	CMCN 925	CNRW 780
Victoria, B. C.	Wolfville, N. S.	Havana, Cuba	Winnipeg, Man.
CFCY 580	CKLK 840	CMCO 660	CNRX 690
Ch'lottet'n, P.E.I.	Red Deer, Alta.	Havana, Cuba	Toronto, Ont.
CFJC 1120	CKMC 1210	CMCQ 1150	CPRY 840
Kamloops, B. C.	Cobalt, Int.	Havana, Cuba	Toronto, Ont.
CFLC 915	CKMO 730	CMCR 1345	HHK 920
Prescott, Ont.	Vancouver, B. C.	Havana, Cuba	Port au Prince, H.
CFNB 1210	CKNC 960	CMCU 1285	HIX 630
Fredericton, N.B.	Toronto, Ont.	Havana, Cuba	Santo Domingo
CFQC 910	CKOC 635	CMCW 1285	HRB 1370
Saskatoon, Sask.	Hamilton, Ont.	Havana, Cuba	Tequicgalpa
CFRB 690	CKOV 1200	CMCY 1345	KABC 1420
Toronto, Ont.	Kelowna, B. C.	Havana, Cuba	San Antonio, Tex.
CFRC 930	CKPC 880	CMDC 660	KARK 890
Kingston, Ont.	Preston, Ont.	Havana, Cuba	Lit. Rock, Ark.
CHCK 960	CKPR 890	CMGA 834	KBPS 1420
Ch'lottet'n, P.E.I.	Pt. William, Ont.	Colon, Cuba	Portland, Ore.
CHGS 1120	CKTB 635	CMGB 1205	KBTM 1200
Sum'rside, P.E.I.	St. Cath., Ont.	Matanzas, Cuba	Paragould, Ark.
CHLS 730	CKUA 580	CMGE 1375	KCMC 1420
Vancouver, B. C.	Edmonton, Alta.	Cardenas, Cuba	Texarkana, Ark.
CHMA 580	CKWX 730	CMGF 977	KCRC 1370
Edmonton, Alta.	Vancouver, B. C.	Matanzas, Cuba	Enid, Okla.
CHML 880	CKX 930	CMGH 1370	KCRJ 1310
Hamilton, Ont.	Brandon, Man.	Matanzas, Cuba	Jerome, Ariz.
CHNS 815	CKY 780	CMHC 790	KDB 1500
Halifax, N. S.	Winnipeg, Man	Tuinucu, Cuba	S. Barbara, Cal.
CHRC 645	CMAB 1249	CMHD 950	KDFN 1210
Quebec, Que.	Pinar del Rio, Cu	Caibarien, Cuba	Casper, Wyo.
CHWC 960	CMAC 1375	CMHI 1110	KDKA 980
Regina, Sask.	Pinar del Rio, Cu	Santa Clara, Cu	Pittsburgh, Pa.
CHWK 665	CMBC 965	CMHJ 645	KDLR 1210
Chilliwack, B. C.	Havana, Cuba	Cienfuegos, Cuba	Devils Lake, N.D.
CHYC 730	CMBD 965	CMJC 1382	KDYL 1290
Montreal, Que.	Havana, Cuba	Camaguey, Cuba	Salt Lake City
CJBR 960	CMBG 1070	CMJE 856	KECA 1430
Regina, Sask.	Havana, Cuba	Camaguey, Cuba	Los Angeles, Cal.
CJCA 745	CMBI 1405	CMJF 930	KELW 780
Edmonton, Alta	Havana, Cuba	Camaguey, Cuba	Burbank, Cal.
CJCB 880	CMBL 1500	CMJG 1200	KERN 1200
Sydney, N. S.	Havana, Cuba	Camaguey, Cuba	Bakersfield, Cal.
CJ CJ 690	CMBN 1405	CMJH 1017	KEX 1180
Calgary, Alta.	Havana, Cuba	Ciego de Avila, C.	Portland, Ore.
CJGC 910	CMBQ 1500	CMK 730	KFAB 770
London, Ont.	Havana, Cuba	Havana, Cuba	Lincoln, Nebr.
CJGX 630	CMBR 1500	CMKC 1034	KFAC 1300
Yorkton, Sask.	Havana, Cuba	Santiago, Cuba	Los Angeles, Cal.
CJOC 1120	CMBS 790	CMQ 1150	KFBB 1280
Lethbridge, Alta.	Havana, Cuba	Havana, Cuba	Great Fls., Mont.
CJOR 1210	CMBT 790	CMW 588	KFBF 1050
Vancouver, B. C.	Havana, Cuba	Havana, Cuba	Milford, Kans.
CJRM 665	CMBW 1010	CMX 885	KFBK 1310
Moose Jaw, Sask.	Havana, Cuba	Havana, Cuba	Sacramento, Cal.
CJRW 665	CMBY 1225	CNRA 630	KFBL 1370
Fleming, Sask.	Havana, Cuba	Moncton, N. B.	Everett, Wash.
CKAC 730	CMBZ 1010	CNRD 840	KFDM 560
Montreal, Que.	Havana, Cuba	Red Deer, Alta.	Beaumont, Tex.
CKCD 730	CMC 842	CNRH 815	KFDY 550
Vancouver, B. C.	Havana, Cuba	Halifax, N. S.	Brookings, S. D.

KFEL 920 Denver, Colo.	KFWI 936 San F'nisco, Cal.	KQHF 1320 Pueblo, Colo.	KMAC 1370 San Antonio, Tex.
KFEQ 680 St. Joseph, Mo.	KFXD 1420 Nampa, Idaho	KGHI 1200 Little Rock, Ark.	KMBC 950 Kan. City Mo.
KFGQ 1310 Boone, Iowa	KFXF 920 Denver, Colo.	KGHL 950 Billings, Mont.	KMEDJ 1310 Medford, Ore.
KFI 1300 Wichita, Kansas	KFXJ 1310 Grand Junc., Col.	KGIB 1360 Butte, Mont.	KMI 1210 Fresno, Cal.
KFI 640 Los Angeles, Cal.	KFXM 1210 San Ber'd no, Cal.	KGIW 1420 Trinidad, Colo.	KMLB 1200 Monroe, La.
KFIO 1120 Spokane, Wash.	KFXR 1310 Oklahoma City	KGLX 1420 Las Vegas, Nev.	KMMJ 740 Clay Ctr., Nebr.
KFIZ 1420 Fond du Lac, Wis.	KFXY 1420 Flagstaff, Ariz.	KGIZ 1500 Grant City, Mo	KMO 860 Tacoma, Wash.
KFJB 1290 Marshalltown, Ia.	KFYO 1420 Abilene, Texas	KGKB 1500 Tyler, Texas	KMOX 1090 St. Louis, Mo.
KFPF 1430 Oklahoma City	KFYR 55 Bismarck, N. D	KGLL 1370 San Angelo, Tex.	KMPC 710 Beverly Hills, Cal
KFJI 1210 Klamath Falls Ore	KGA 1470 Spokane, Wash.	KGEO 570 Wichita Fils., Tex.	KMTR 570 Hollywood, Cal.
KFJM 1370 Grd. Forks, N. D.	KGAR 1370 Tucson, Arizona	KGXK 1420 Sand Point, Idaho	KNOW 1500 Austin, Tex.
KFJR 1300 Portland, Ore.	KGB 1330 San Diego, Cal.	KGY 1500 Scottsbluff, Nebr.	KNX 1050 Hollywood, Cal.
KFJY 1310 Fort Dodge Ia.	KGBU 900 Ketchikan, Al'ka	KGMB 1320 Honolulu, T. H.	KOA 830 Denver, Colo.
KFJZ 1370 Fl. Worth, Tex.	KGBX 1310 St. Joseph, Mo.	KGNF 1430 No. Platte, Nebr.	KOAC 550 Corvallis, Ore.
KFKA 880 Greeley, Colo.	KGBZ 930 York, Nebr.	KGNO 1210 Dodge City, Kas.	KOB 1180 State Col., N. M.
KFKU 1220 Lawrence, Kans.	KGCA 1270 Decorah, Iowa	KGO 790 San F'nisco, Cal.	KOCW 1400 Chickasha, Okla.
KFKX 1020 Chicago, Ill.	KCCR 1210 Watertown, S. D.	KGRS 1410 Amarillo, Texas	KOH 1380 Reno, Nevada
KFLV 1410 Rockford, Ill.	KGCU 1240 Mandan, N. D.	KGU 940 Honolulu, Hawaii	KOIL 1260 Council Bluffs, Ia.
KFLX 1370 Galveston, Tex.	KGCX 1310 Wolf P't, Mont.	KGVO 1420 Missoula, Mont.	KOIN 940 Portland, Ore.
KFMX 1250 N'thfield, Minn.	KGDA 1370 Mitchell, S. D.	KGW 620 Portland, Ore.	KOL 1270 Seattle, Wash.
KFNF 890 Shenandoah, Ia.	KGDE 1200 Fergus Falls, Minn	KGY 1200 Olympia, Wash.	KOMO 920 Seattle, Wash.
KFOR 1210 Lincoln, Nebr.	KGDM 1100 Stockton, Cal.	KHJ 900 Los Angeles, Cal.	KONO 1370 San Antonio, Tex.
KFOX 1250 Long Beach, Cal.	KGDU 1200 Huron, S. D.	KHQ 590 Spokane, Wash.	KOOS 1370 Marshfield, Ore.
KFPL 1310 Dublin, Texas	KGEE 1200 Yuma, Colo.	KICA 1370 Clovis, N. M.	KORE 1420 Eugene, Ore.
KFPM 1310 Greenville, Texas	KGER 1360 Long Beach, Cal.	KICK 1420 Red Oak, Iowa	KOY 1390 Phoenix, Arizona
KFPW 1340 Fl. Smith, Ark.	KGEW 1200 Ft. Morgan, Colo.	KID 1320 Idaho Falls, 'da.	KPCB 650 Seattle, Wash.
KFPY 1340 Spokane, Wash.	KGEZ 1310 Kalispell, Mont.	KIDO 1350 Boise, Idaho	KPJM 1500 Prescott, Ariz.
KFQD 1230 Anchorage, Alas.	KGFF 1420 Shawnee, Okla.	KIT 1310 Yakima, Wash.	KPO 680 San F'nisco, Cal.
KFBC 610 San F'nisco, Cal.	KGFG 1370 Oklahoma City	KJBS 1070 San F'nisco, Cal.	KPOF 880 Denver, Colo.
KFRU 630 Columbia, Mo.	KGFI 1500 Corp's Ch'sti, Tex	KJR 970 Seattle, Wash.	KPPC 1210 Pasadena, Cal.
KFSD 600 San Diego, Cal.	KGFJ 1200 Los Angeles, Cal.	KLCN 1290 Blytheville, Ark.	KPQ 1500 Wenatchee, Wash
KFSG 1120 Los Angeles, Cal.	KGFK 1500 Moorhead, Minn.	KLO 1400 Ogden, Utah	KPRC 920 Houston, Texas
KFUL 1290 Garveston, Texas	KGFL 1370 Raton, N. M.	KLPM 1240 Minot, N. Dak.	KQV 1380 Pittsburgh, Pa.
KFUO 550 St. Louis, Mo.	KGFW 1310 Kearney, Nebr.	KLBA 1390 Little Rock, Ark.	KQW 1010 San Jose, Cal.
KFVD 1000 Cuty. City, Cal.	KGFX 580 Pierre, S. D.	KLS 1440 Oakland, Cal.	KRE 1370 Berkeley, Cal.
KFVS 1210 Cape Gir'd'u, Mo	KGGC 1420 San F'nisco, Cal.	KLX 880 Oakland, Cal.	KREG 1500 Santa Ana, Cal.
KFWB 950 Hollywood, Cal.	KGGF 1010 Coffeyville, Okla.	KLZ 560 Denver, Colo.	KRGV 1260 Hartlingen, Texas
KFWF 1200 St. Louis, Mo.	KGGM 1230 Albuq'rque, N.M.	KMA 930 Shenandoah, Ia.	KRKD 1120 Los Angeles, Cal.

KRLD 1040
Dallas, Texas
KRMD 1310
Shreveport, La.
KROW 930
Oakland, Cal.
KRSC 1120
Seattle, Wash.
KSAC 580
Manh'tt'n, Kans.
KSCJ 1330
Sioux City, Ia.
KSD 550
St. Louis, Mo.
KSEI 900
Pocatello, Idaho
KSL 1130
Salt Lake City
KSO 1380
Clarinda, Iowa
KSOO 1110
Sioux Falls, S. D.
KSTP 1460
St. Paul, Minn.
KTAB 560
San F'nisco, Cal.
KTAR 620
Phoenix, Ariz.
KTAT 1240
Ft. Worth, Tex.
KTBR 1300
Portland, Ore.
KTBS 1450
Shreveport, La.
KTFI 1240
Twin Falls, Ida.
KTHS 1040
Hot Spgs., Ark.
KTLC 1310
Houston, Texas
KTM 780
Los Angeles, Cal.
KTRH 1120
Houston, Texas
KTSA 1290
San Antonio, Tex.
KTSM 1310
El Paso, Texas
KTW 1220
Seattle, Wash.
KUJ 1370
Walla Wal., Wash.
KUOA 1390
Fayetteville, Ark.
KUSD 890
Vermillion, S. D.
KVI 760
Tacoma, Wash.
KVL 1370
Seattle, Wash.
KVOA 1260
Tucson, Arizona
KVOO 1140
Tulsa, Okla.
KVOR 1270
Col. Sp'gs, Colo.
KVOS 1200
Bellingh'm, Wash.
KWCR 1310
Cedar Rapids, Ia.
KWEA 1210
Shreveport, La.
KWC 1200
Stockton, Cal.
KWJJ 1060
Portland, Ore.
KWK 1350
St. Louis, Mo.

KWKC 1370
Kansas City, Mo.
KWKH 850
Shreveport, La.
KWLC 1270
Decorah, Iowa
KWSC 1220
Pulman, Wash.
KWWG 1260
Brownsville, Tex.
KXA 570
Seattle, Wash.
KXL 1420
Portland, Ore.
KXO 1500
El Centro, Cal.
KXRO 1310
Aberdeen, Wash.
KXYZ 1420
Houston, Texas
KYA 1230
San F'nisco, Cal.
KYW 1020
Chicago, Ill.
KZKA 1110
Manilla, P. I.
KZRC 937.5
Cebu, P. I.
KZRM 618.5
Manila, P. I.
NAA 690
Arlington, Va.
RUS 664
Salvador
TGW 570
Guatemala
TICR 911
San Jose, C. R.
TI4NRH 980
Heredia, C. R.
VAS 685
Glace Bay, N. S.
VCX 690
Halifax, N. S.
VOAS 810
St. John's, N. F.
VONA 950
St. John's, N. F.
VOWR 675
St. Johns, N. F.
VPN 610
Nassau, B. I.
WAAB 1410
Boston, Mass.
WAAF 920
Chicago, Ill.
WAAM 1250
Newark, N. J.
WAAT 940
Jersey City, N. J.
WAAW 660
Omaha, Nebr.
WABC 860
New York City
WABI 1200
Bangor, Maine
WABZ 1200
New Orleans, La.
WACO 1240
Waco, Texas
WADC 1320
Akron, Ohio
WAGM 1420
Presque Isle, Me.
WAU 640
Columbus, Ohio
WALR 1210
Zanesville, Ohio

WAPI 1140
Birmingham, Ala.
WASH 1270
Gr. Rapids, Mich.
WAWZ 1350
Zarephath, N. J.
WBAA 1400
Lafayette, Ind.
WBAC 1430
Harrisburg, Pa.
WBAL 760-1060
Baltimore, Md.
WBAP 800
Fort Worth, Tex.
WBAX 1210
Wilkes-Barre, Pa.
WBBC 1400
Brooklyn, N. Y.
WBBL 1210
Richmond, Va.
WBBM 770
Chicago, Ill.
WBRR 1300
Brooklyn, N. Y.
WBBZ 1200
Ponca City, Okla
WBCM 1410
Bay City, Mich.
WBEN 900
Buffalo, N. Y.
WBEO 1310
Marquette, Mich.
WBGF 1370
Glens Falls, N. Y.
WBHS 1200
Huntsville, Ala.
WBIG 1440
Greensboro, N.C.
WBIS 1230
Boston, Mass.
WBMS 1450
Hackensack, N.J.
WBNX 1350
New York City
WBOQ 860
New York City
WBOW 1310
Terre Haute, Ind.
WBRC 930
Birmingham, Ala.
WBRE 1310
Wilkes-Barre, Pa.
WBSO 920
Needham, Mass.
WBT 1080
Charlotte, N. C.
WBTM 1370
Danville, Va.
WBZ 990
Boston, Mass.
WBZA 990
Springfield, Mass.
WCAC 600
Storrs, Conn.
WCAD 1220
Canton, N. Y.
WCAE 1220
Pittsburgh, Pa.
WCAH 1430
Columbus, Ohio
WCAJ 590
Lincoln, Nebr.
WCAL 1250
Northfield, Minn.
WCAM 1280
Camden, N. J.
WCAO 600
Baltimore, Md.

WCAP 1280
Asbury Pk., N. J.
WCAT 1200
Rapid City, S. D.
WCAU 1170
Philadelphia, Pa.
WCAX 1200
Burlington, Vt.
WCAZ 1070
Carthage, Ill.
WCBA 1440
Allentown, Pa.
WCBD 1080
Zion, Ill.
WCBM 1370
Baltimore, Md.
WCBS 1210
Springfield, Ill.
WCCO 810
Minneapolis, Minn.
WCDA 1350
New York City
WCFL 970
Chicago, Ill.
WCGU 1400
Brooklyn, N. Y.
WCHI 1490
Chicago, Ill.
WCKY 1490
Covington, Ky.
WCLO 1200
Janesville, Wis.
WCLS 1310
Joliet, Ill.
WCMA 1400
Culver, Ind.
WCOA 1340
Pensacola, Fla.
WCOB 880
Meridian, Miss.
WCOD 1200
Harrisburg, Pa.
WCOH 1210
Yonkers, N. Y.
WCRW 1210
Chicago, Ill.
WCSC 1360
Charleston, S. C.
WCSH 940
Portland, Maine
WDAE 1220
Tampa, Fla.
WDAF 610
Kansas City, Mo.
WDAG 1410
Amarillo, Texas
WDAH 1310
El Paso, Texas
WDAS 1370
Philadelphia, Pa.
WDAY 940
Fargo, N. D.
WDBJ 930
Roanoke, Va.
WDBO 1120
Orlando, Fla.
WDEL 1120
Wilmington, Del.
WDEW 1420
Waterbury, Vt.
WDGY 1180
Minnneapolis, Minn.
WDOD 1280
Chattanooga, Tenn
WDRG 1330
Hartford, Conn.

WDSU 1250
New Orleans, La.
WDZ 1070
Tuscola, Ill.
WEAF 660
New York City
WEAI 1270
Ithaca, N. Y.
WEAN 780
Providence, R. I.
WEAO 570
Columbus, Ohio
WEBC 1290
Superior, Wis.
WEBQ 1210
Harrisburg, Ill.
WEBR 1310
Buffalo, N. Y.
WEDC 1210
Chicago, Ill.
WEEI 590
Boston, Mass.
WEEU 830
Reading, Pa.
WEHC 1350
Emory, Va.
WEHS 1420
Cicero, Ill.
WELL 1420
Battie C'k, Mich.
WENR 870
Chicago, Ill.
WERE 1420
Erie, Pa.
WEVD 1300
New York City
WEW 760
St. Louis, Mo.
WEXL 1310
Royal Oak, Mich.
WFAA 800
Dallas, Texas
WFAM 1200
So. Bend, Ind.
WFAN 610
Philadelphia, Pa.
WFBC 1200
Knoxville, Tenn
WFBE 1200
Cincinnati, Ohio
WFBG 1310
Altoona, Pa.
WFBL 1360
Syracuse, N. Y.
WFBM 1230
Indianapolis, Ind.
WFBR 1270
Baltimore, Md.
WFDF 1310
Flint, Mich.
WFDV 1310
Rome, Ga.
WFDW 1420
Anniston, Ala.
WFEE 1430
Manchester, N.H.
WFI 560
Philadelphia, Pa.
WFIW 940
Hopkinsville, Ky.
WFLA 620
Clearwater, Fla.
WFOX 1400
Brooklyn, N. Y.

WGAL 1310
Lancaster, Pa.
WGAR 1450
Cleveland, Ohio
WGBB 1210
Freeport, N. Y.
WGBF 630
Evansville, Ind.
WGBI 880
Scranton, Pa.
WGCM 1210
Gulfport, Miss.
WGCP 1250
Newark, N. J.
WGES 1360
Chicago, Ill.
WGH 1310
Newp't News, Va.
WGL 1370
Ft. Wayne, Ind.
WGN 720
Chicago, Ill.
WGR 550
Buffalo, N. Y.
WGST 890
Atlanta, Ga.
WGY 790
Schenec'dy, N. Y.
WHA 940
Madison, Wis.
WHAD 1120
Milwaukee, Wis.
WHAM 1150
Rochester, N. Y.
WHAP 1300
New York City
WHAS 820
Louisville, Ky.
WHAT 1310
Philadelphia, Pa.
WHAZ 1300
Troy, N. Y.
WHB 860
Kansas City, Mo.
WHBC 1200
Canton, Ohio
WHBD 1370
Mt. Orab, Ohio
WHBF 1210
Rock Island, Ill.
WHBL 1410
Sheboygan, Wis.
WHBQ 1370
Memphis, Tenn.
WHBU 1210
Anderson, Ind.
WHBY 1200
Green Bay, Wis.
WHDF 1370
Calumet, Mich.
WHDH 830
Boston, Mass.
WHDL 1420
TupperLake, N.Y.
WHEB 740
Portsmouth, N.H.
WHEC 1430
Rochester, N. Y.
WHFC 1420
Cicero, Ill.
WHIS 1410
Bluefield, W. Va.
WHK 1390
Cleveland, Ohio

WHN 1010
New York City
WHO 1000
Des Moines, Ia.
WHOM 1450
Jersey City, N. J.
WHP 1430
Harrisburg, Pa.
WIAS 1420
Ottumwa, Iowa
WIBA 1280
Madison, Wis.
WIBG 930
Elkins Park, Pa.
WIBM 1370
Jackson, Mich.
WIBO 560
Chicago, Ill.
WIBU 1210
Poynette, Wis.
WIBW 580
Topeka, Kansas
WIBX 1200
Utica, N. Y.
WICC 600
Bridgeport, Conn
WIL 1200
St. Louis, Mo.
WILL 890
Urbana, Ill.
WILM 1420
Wilmington, Del.
WINS 1180
New York City
WIOD 1300
Miami, Fla.
WIP 610
Philadelphia, Pa.
WIS 1010
Columbia, S. C.
WISN 1120
Milwaukee, Wis.
WJAC 1310
Johnstown, Pa.
WJAG 1060
Norfolk, Nebr.
WJAK 1310
Elkhart, Ind.
WJAR 890
Providence, R. I.
WJAS 1290
Pittsburgh, Pa.
WJAX 900
Jacksonville, Fla.
WJAY 610
Cleveland, Ohio
WJBC 1200
La Salle, Ill.
WJBI 1210
Red Bank, N. J.
WJBK 1370
Detroit, Mich.
WJBL 1200
Decatur, Ill.
WJBO 1420
New Orleans, La.
WJBU 1210
Lewisburg, Pa.
WJBW 1200
New Orleans, La.
WJBY 1210
Gadsden, Ala.
WJDX 1270
Jackson, Miss.

WJJD 1130
Mooseheart, Ill.
WJKS 1360
Gary, Ind.
WJMS 1420
Ironwood, Mich.
WJR 750
Detroit, Mich.
WJSV 1460
Alexandria, Va.
WJTL 1370
Atlanta, Ga.
WJW 1210
Mansfield, Ohio
WJZ 760
New York City
WKAQ 890
San Juan, P. R.
WKAR 1040
E. Lansing, Mich.
WKAU 1310
Laconia, N. H.
WKBK 1310
Joliet, Ill.
WKBK 1310
Birmingham, Ala.
WKBK 1400
Indianapolis, Ind.
WKBH 1380
La Crosse, Wis.
WKBI 1420
Cicero, Ill.
WKBN 570
Youngstown, O.
WKBS 1310
Galesburg, Ill.
WKBV 1500
Connersville, Ind.
WKBW 1480
Buffalo, N. Y.
WKBZ 1500
Ludington, Mich.
WKJC 1200
Lancaster, Pa.
WKRC 550
Cincinnati, Ohio
WKY 900
Oklahoma City
WKZO 590
Kalamazoo, Mich.
WLAC 1470
Nashville, Tenn.
WLAP 1200
Louisville, Ky.
WLB 1250
St. Paul, Minn.
WLCB 1310
Muncie, Ind.
WLBK 1420
Kansas City, Kas.
WLBG 1200
Ettrick, Va.
WLBL 900
Stevens Pt., Wis.
WLBW 1260
Oil City, Pa.
WLBX 1500
L. I. City, N. Y.
WLBZ 620
Bangor, Maine
WLCI 1210
Ithaca, N. Y.
WLEY 1370
Lexington, Mass.

WLIT 560 Philadelphia, Pa.	WNOX 560 Knoxville, Tenn.	WQDX 1210 Thomasville, Ga.	WSUN 620 St. Petersburg, Fla.
WLOE 1500 Boston, Mass.	WNYS 570 New York City	WRAC 1370 Williamsport, Pa.	WSVS 1370 Buffalo, N. Y.
WLS 870 Chicago, Ill.	WOAI 1190 San Antonio, Tex.	WRAM 1370 Wilmingon, N.C.	WSYB 1500 Rutland, Vt.
WLTH 1400 Brooklyn, N. Y.	WOAX 1280 Trenton, N. J.	WRAW 1310 Reading, Pa.	WSYR 570 Syracuse, N. Y.
WLVA 1370 Lynchburg, Va.	WOBU 580 Charlest'n, W.Va.	WRAX 1020 Philadelphia, Pa.	WTAD 1440 Quincy, Ill.
WLW 700 Cincinnati, Ohio	WOC 1000 Davenport, Iowa	WRBL 1200 Columbus, Ga.	WTAG 580 Worcester, Mass.
WLWL 1100 New York City	WOCL 1210 Jamestown, N. Y.	WRBQ 1210 Greenville, Miss.	WTAM 1070 Cleveland, Ohio
WMAC 570 Syracuse, N. Y.	WODA 1250 Paterson, N. J.	WRBX 1410 Roanoke, Va.	WTAQ 1330 Eau Claire, Wis.
WMAL 630 Washington, D.C.	WODX 1410 Mobile, Ala.	WRC 950 Washington, D.C.	WTAR 780 Norfolk, Va.
WMAQ 670 Chicago, Ill.	WOI 640 Ames, Iowa	WRDO 1370 Augusta, Maine	WTAW 1120 College Sta., Tex.
WMAZ 1180 Macon, Ga.	WOKO 1430 Albany, N. Y.	WRDW 1500 Augusta, Ga.	WTAX 1210 Springfield, Ill.
WMBA 1500 Newport, R. I.	WOL 1310 Washington, D.C.	WRFC 600 Memphis, Tenn.	WTBO 1420 Cumberland, Md.
WMBC 1420 Detroit, Mich.	WOMT 1210 Manitowoc, Wis.	WREN 1220 Lawrence, Kans.	WTFL 1310 Philadelphia, Pa.
WMBD 1440 Peoria Hghts., Ill.	WOOD 1270 Gr. Rapids, Mich.	WRHM 1250 Minneapolis, Minn.	WTFI 1450 Athens, Ga.
WMBG 1210 Richmond, Va.	WOPI 1500 Bristol, Tenn.	WRJN 1370 Racine, Wis.	WTIC 660-1060 Hartford, Conn.
WMBH 1420 Joplin, Mo.	WOQ 1300 Kansas City, Mo.	WRNY 1010 New York City	WTJS 1310 Jackson, Tenn.
WMBI 1080 Chicago, Ill.	WOR 710 Newark, N. J.	WROL 1310 Knoxville, Tenn.	WTMJ 620 Milwaukee, Wis.
WMBO 1310 Auburn, N. Y.	WORC 1200 Worcester, Mass.	WRR 1280 Dallas, Texas	WTOC 1260 Savannah, Ga.
WMBQ 1500 Brooklyn, N. Y.	WORK 1000 York, Pa.	WRUF 830 Gainesville, Fla.	WTSI 1310 Laurel, Miss.
WMBE 1370 Tampa, Fla.	WOS 630 Jeff's'n City, Mo.	WRVA 1110 Richmond, Va.	WWAE 1200 Hammond, Ind.
WMC 780 Memphis, Tenn.	WOV 1130 New York City	WSAI 1330 Cincinnati, Ohio	WWJ 920 Detroit, Mich.
WMCA 570 New York City	WOW 590 Omaha, Nebr.	WSAJ 1310 Grove City, Pa.	WWL 850 New Orleans, La.
WMIL 1500 Brooklyn, N. Y.	WOWO 1160 Ft. Wayne, Ind.	WSAN 1440 Allentown, Pa.	WWNC 570 Asheville, N. C.
WMMN 890 Fairmont, W. Va.	WPAD 1420 Paducah, Ky.	WSAR 1450 Fall River, Mass.	WWRL 1500 Woodside, N. Y.
WMPC 1500 Lapeer, Mich.	WPAP 1010 New York City	WSAZ 580 Hunt'gton, W. Va.	WWSW 1500 Pittsburgh, Pa.
WMRJ 1210 Jamaica, N. Y.	WPCC 560 Chicago, Ill.	WSB 740 Atlanta, Ga.	WWVA 1160 Wheeling, W. Va.
WMSG 1350 New York City	WPCH 810 New York City	WSBC 1210 Chicago, Ill.	WKYZ 1240 Detroit, Mich.
WMT 600 Waterloo, Iowa	WPEN 1500 Philadelphia, Pa.	WSBT 1230 South Bend, Ind.	XEA 1000 Guad'jara, Mex.
WNAC 1230 Boston, Mass.	WPFB 1370 Hattiesb'g., Miss.	WSEN 1210 Columbus, Ohio	XEB 1030 Mexico City
WNAD 1010 Norman, Okla.	WPG 1100 Atl'ntic City, N.J.	WSFA 1410 Montgomery, Ala.	XEC 1000 Toluca, Mexico
WNAX 570 Yankton, S. D.	WPOR 780 Norfolk, Va.	WSIX 1210 Springfield, Tenn.	XED 965 Reynosa, Mexico
WNBF 1500 Bingh'mt'n, N.Y.	WPRO 1210 Providence, R. I.	WSJS 1310 Winst.-Sal., N. C.	XEE 1000 Oaxaco, Mexico
WNBH 1310 New B'd'f'd, Mass.	WPSC 1230 State College, Pa.	WSM 650 Nashville, Tenn.	XEFA 1250 Mexico City
WNBO 1200 Washington, Pa.	WPTF 680 Raleigh, N. C.	WSMB 1320 New Orleans, La.	XEFB 1315 Monterrey, Mex.
WNBR 1430 Memphis, Tenn.	WQAM 560 Miami, Fla.	WSMK 1380 Dayton, Ohio	XEFC 1050 Merida, Mex.
WNBW 1200 Carbondale, Pa.	WQAN 880 Scranton, Pa.	WSOC 1210 Gastonia, N. C.	XEFD 1020 Tijuana, Mex.
WNBX 1200 Springfield, Vt.	WQAO 1010 New York City	WSPA 1420 Spartanburg, S.C.	XEFE 1000 Laredo, Mexico
WNBZ 1290 Sar'n'e L'ke, N.Y.	WQBC 1360 Vicksburg, Miss.	WSPD 1340 Toledo, Ohio	XEFI 1000 Chihuahua, Mex.
WNJ 1450 Newark, N. J.	WQDM 1370 St. Albans, Vt.	WSUI 880 Iowa City, Iowa	XEFS 1000 Queretaro, Mex.

XEG 1070 Mexico, Mex.	XEP 1400 Laredo, Mexico	XETG 1000 Torreon, Mex.	XFC 810 Aguascal'tes, M.
XEH 1132 Monterrey, Mex.	XEQ 750 Juarez, Mexico	XETQ 1230 Mexico, Mex.	XFF 875 Chihuahua, Mex.
XEI 1000 Morelia, Mexico	XER 735 Villa Acuna, Mex.	XETZ 1500 Coyoacan, Mex.	XFG 683.3 Mexico City
XEJ 1000 Juarez, Mexico	XES 890 Tampico, Mexico	XEU 1000 Veracruz, Mex.	XFI 818 Mexico City
XEK 990 Mexico City	XET 690 Monterrey, Mex.	XEV 1000 Puebla, Mexico	XFX 867 Mexico City
XEL 1000 Saltillo, Mexico	XETA 1140 Mexico City	XEW 910 Mexico City	10-AB 1200 Moose Jaw, Sask.
XEM 1300 Tampico, Mexico	XETB 1380 Torreon, Mex.	XEX 1210 Mexico City	10-AT 1155 Trail, B. C.
XEN 711 Mexico City	XETC 1000 Jalapa, Mex.	XEY 1000 Merida, Mexico	10-BP 1200 Wingham, Ont.
XEO 940 Mexico City	XETF 630 Veracruz, Mex.	XEZ 780 Mexico City	10-BQ 1200 Brantford, Ont.

INDEX BY LOCATIONS WITH MAP KEY

(Continued from page 59)

JALISCO	Watts	Keys.	Ciego de Avila W-26	15	CMJH	1017
Guadalajara, Jal. X-10	101	XEA	Cienfuegos W-25	40	CMHJ	645
MICHOACAN			Colon W-24	100	CMGA	834
Morelia, Mich. Y-12	101	XEI	Havana W-23	150	CMBC	965
NEUVO LEON				250	CMBD	965
Monterrey, N. L. U-13	50	XEFB		150	CMBG	1070-
	1000	XEH		30	CMBI	1405
	500	XET		20	CMBL	1500
OAXACA				30	CMBN	1405
Oaxaca, Oak. AA-14	105	XEE		50	CMBQ	1500
PUEBLA				15	CMBR	1500-
Puebla Z-13	101	XEV		150	CMBS	790
QUERETARO				500	CMBT	790
Queretaro X-12	40	XEFS		150	CMBW	1010
TAMAULIPAS				350	CMBY	1225
N. Laredo S-13	101	XEFE		150	CMBZ	1010
	200	XEP		500	CMC	842-
Reynosa, Tams. T-14	10000	XED		150	CMCA	1225-
Tampico, Tams. W-14	500	XEM		150	CMCB	1070
	500	XES		250	CMCD	925
VERA CRUZ				250	CMCF	890
Jalapa Y-14	100	XETC		30	CMCG	1345
Veracruz, Ver. Z-14	500	XETF		15	CMCH	1405
	101	XEU		250	CMCJ	630
YUCATAN				15	CMCM	1405
Merida, Yuc. X-19	105	XEY		250	CMCN	925
WEST INDIES				225	CMCO	660
BAHAMA				600	CMCQ	1150
Nassau. U-26	500	VPN		150	CMCR	1345
CUBA				150	CMCU	1285-
Caibarien W-25	250	CMHD		150	CMCW	1285
Camaguey W-26	150	CMJC		50	CMCY	1345-
	20	CMJE		500	CMDC	660
	50	CMJF		3150	CMK	730
	30	CMJG		250	CMQ	1150-
Cardenas W-24	30	CMGE		1400	CMW	588
				1000	CMX	885
			Matanzas W-24	7.5	CMGB	1205
				50	CMGF	977
			Pinar del Rio W-22	150	CMGH	1370
				20	CMAB	1249
				30	CMAC	1375
			Santa Clara W-25	15	CMHI	1110
			Santiago X-28	150	CMKC	1034
			Tuinucu	100	CMHC	790
			DOMINICAN REPUBLIC			
			Santo Domingo X-31	1000	HIX	630
			HAITI			
			Port au Prince X-30	1000	HHK	920

Broadcasting Stations of the World

Compiled by U. S. Department of Commerce

SOUTH AMERICA					Country and City				
Country and City	Call	Kcys.	M.	Watts	Country and City	Call	Kcys.	M.	Watts
ARGENTINA					COLOMBIA				
Bahia Blanca	LU2	789	380	500	Barranquilla	HKA	6160	48.7	.....
Buenos Aires	LP4	670	480	5000	Barranquilla	HKD	5827	51.4	.....
Buenos Aires	LP6	590	509	.....	Bogota	HJN	6050	49.6	.....
Buenos Aires	LR1	790	380	500	Bogota	HKN	685	437	2000
Buenos Aires	LR2	870	345	10000	Bogota	HKC	6275	47.8	50
Buenos Aires	LR3	950	316	5000	Bogota	HKF	1304	230	.....
Buenos Aires	LR4	990	330	10000			7816	39.4	.....
Buenos Aires	LR5	830	361	500			8692	34.5	.....
Buenos Aires	LR6	990	330	5000	Bogota	HKM	7143	42.0	.....
Buenos Aires	LR7	750	400	7000	Manizales	HKT	7139	42.0	25
Buenos Aires	LR8	1150	261	10000	Medellin	HKN	11712	25.6	7½
Buenos Aires	LR9	1030	291	10000	ECUADOR				
Buenos Aires	LSOR	9810	30.6	.....	El Prado	.....	7538	39.8	.....
Buenos Aires	LSX	10382	28.9	20000	PARAGUAY				
Buenos Aires	LS1	710	423	5000	Asuncion	ZP1	1363	220	.....
Buenos Aires	LS2	1190	252	10000	PERU				
Buenos Aires	LS3	1270	236	1000	Arequipa	OA6U	1764	170	20
Buenos Aires	LS5	1069	280	10000	Lima	OAX	790	380	1500
Buenos Aires	LS6	1349	222	3000	Lima	OA4M	1428	210	12
Buenos Aires	LS8	1229	244	10000	URUGUAY				
Buenos Aires	LS9	1388	216	10000	Montevideo	CX6	650	462	1000
Concordia	LT1	810	370	1000	Montevideo	CX10	730	411	1000
Concordia	LT2	1360	226	400	Montevideo	CX12	770	390	500
Cordoba	LV2	911	329	1000	Montevideo	CX14	810	370	1000
Cordoba	LV3	.....	.....	1000	Montevideo	CX16	850	353	.....
Cordoba	LV4	.....	.....	1000	Montevideo	CX18	890	337	250
General Pico	LT7	1441	208	1000	Montevideo	CX20	930	323	2000
La Plata	LP8	685	438	1000	Montevideo	CX22	970	309	250
Los Molinos	LV8	.....	.....	.....	Montevideo	CX24	1010	297	1000
Mar del Plata	LU1	1414	213	100	Montevideo	CX26	1050	286	2000
Mendoza	LT4	759	394	500	Montevideo	CX30	1130	266	250
Parana	LT5	1249	240	500	Montevideo	CX32	1170	256	200
Rosario	LT3	1080	275	2000	Montevideo	CX34	1210	248	500
Rosario	LV5	1388	216	500	Montevideo	CX36	1250	240	250
Rosario	LT9	1075	279	100	Montevideo	CX38	1290	233	100
San Juan	LT6	730	411	5000	Montevideo	CX40	1330	226	100
Tucuman	LV7	881	340	500	Montevideo	CX42	1370	219	500
Villaguay	LP2	1140	263	65	Montevideo	CX44	1410	213	20
BOLIVIA					Montevideo	CX46	1450	207	100
La Paz	CPX	1350	226	1000	Montevideo	CX48	1490	201	50
BRAZIL					Paysandu	CW40	1340	224	30
Amparo	PRAM	638	470	50	Paysandu	CW44	1420	211	30
Bahia	PRAH	674	445	50	Salto	CW32	1180	254	30
Bello Horizonte	PRAQ	1090	275	.....	Salto	CW34	1220	246	50
Campinas	.....	1170	256	20	Salto	CW36	1260	238	30
Curitiba	PRAN	882	340	50	Salto	CW38	1300	231	30
Franca	PRAZ	1110	270	50	Tucuaembo	CW30	1140	263	.....
Juiz de Fora	PRAJ	857	350	200	Tucuaembo	CW46	1460	206	20
Mogy das Cruzes	PRAY	1000	300	50	VENEZUELA				
Para	PRAF	842	356	250	Caracas	YV1BC	960	312	.....
Pelotas	PRAD	920	326	50	Caracas	YV2BC	6061	49.5	400
Pernambuco	PRAP	706	425	3000	Valencia	YV4BV	11700	25.6	.....
Porto Alegre	PRAG	706	425	3000	EUROPE				
Ribeirao Preto	PRAI	1070	280	10	AUSTRIA				
Rio de Janeiro	PRAA	750	400	1000	Graz	.....	851	353	7000
Rio de Janeiro	PRAB	937	320	500	Innsbruck	.....	1058	284	500
Rio de Janeiro	PRAC	857	350	500	Klagenfurt	.....	862	453	500
Rio de Janeiro	PRAK	1153	280	1000	Linz-an-der-Donau	.....	1220	246	500
Rio de Janeiro	PRAJ	1364	220	1000	Vienna (Rosenhugel)	UOR2	11801	25.4	.....
Santos (Miramir)	PRAS	887	338	1000	Vienna (Rosenhugel)	.....	6072	49.4	15000
Sao Paulo	PRAE	815	368	1000			581	516	.....
Sao Paulo	PRAR	1006	298	500	BELGIUM				
BRITISH GUIANA					Antwerp (Berchem)	ON4ED	1455	206	50
Georgetown	VRY	6726	52.4	200	Brussels	ON4GT	1375	218	100
CHILE					Brussels	ON4RE	539	509	3600
Antofagasta	.....	.....	.....	.....	Brussels	ON4RC	1448	207	100
Santiago	CMAB	625	480	1000	Brussels (Schaerbeck)	ON4FO	1219	246	100
Santiago	CMAC	804	373	1000	Chatelaineau	ON4CE	1388	216	200
Santiago	CMAK	1333	225	100	Dampremy	ON4FG	1455	206	250
Santiago	CMAO	1016	295	250	Ghent	ON4RG	1219	246	400
Santiago	CMAQ	1224	245	100	Liege	ON4RW	1219	246	200
Valparaiso	CMAJ	1034	290	100					

Ottomont (Adriemont)	ON4EX	1388	216	100	Breslau		923	325	1700
Velthem		589	509	15000	Cologne		1319	227	1700
Verriers	ON4CE	1455	206	100	Dresden		941	319	800
CZECHOSLAVAKIA					Flensburg		1373	219	800
Bratislava	OKR	1075	279	12000	Frankfurt		770	390	1700
Brno	OKB	878	342	36000	Freiburg		527	569	300
Kosice	OKK	1023	293	2500	Gleitwitz		1157	259	5600
Prague	OK1MPI	5189	58	2000	Hamburg		806	372	1700
Prague (Strasnice)	OKP	616	487	5000	Hanover		530	566	300
DANZIG					Heilsburg		1085	277	60000
Danzig	PTB	662	453	250	Kaiserslautern		1112	270	300
DENMARK					Kassel		1220	246	300
Copenhagen					Kiel		1292	232	300
(Skamleback)	OXO-OXZ	6057	49.5	.....	Konigsberg		1085	277	1700
		9488	31.6	.....	Langenburg		635	473	17000
		15300	19.6	500	Leipzig		1184	253	2300
Copenhagen					Magdeburg		1058	284	600
(Axeiborg)		1067	281	1000	Stuttgart				
Kallundborg					(Muehlacker)		833	360	60000
(Gisselore)		1153	260	7500	Muenster		1319	227	600
Soro		309	971	2000	Munich		563	533	1700
ESTONIA					Nuremberg		1256	239	2300
Tallinn		1013	296	10000	Stettin		1058	284	600
Tallinn		250	1200	100	HUNGARY				
Tartu		735	408	2200	Budapest		545	550	20000
FINLAND					Szokesvehervar	HAT	9125	32.9	.....
Abo		1220	246	.....	ICELAND				
Bjorneborg		1220	246	1500	Reykjavik	TFA	1200	250	500
Helsingfors					Reykjavik		240	1250	21000
(Fredriksberg)		840	358	10000	IRISH FREE STATE				
Jakobstad		1220	246	750	Cork	6CK	1337	225	1000
Lahti		167	1796	40000	Dublin	2RN	726	413	1500
Tammerfors				1000	ITALY				
Viborg		1031	291	750	Bari	11BA	.....	.....	.....
FRANCE					Bolzano	IBZ	662	453	200
Angers		1091	275	250	Firenze	11FL	.....	.....	.....
Beziers		1364	220	1500	Genoa	IGE	959	313	1500
Biarritz		1515	198	250	Milan	IMI	599	501	8500
Bordeaux		1199	250	5000	Naples	INA	905	331	1500
Bordeaux		986	304	1500	Palermo	11PA	554	542	4000
Caen		1080	278	200	Rome	11AX	6667	45	.....
Fecamp				.....	Rome	11RO	680	441	7500
Grenoble		914	328	1500	Rome	12RO	3750	80	.....
Lille		1132	265	500			11810	25.4	9000
Limoges		1022	293	500	Trieste	11TR	1211	248	15000
Lyon	YR	1030	291	.....	Turin	ITO	1013	296	8500
		7463	40.2	500	Vatican City	HVJ	15112	19.8	.....
Lyon (La Doua)	YN	644	466	3000			5965	50.3	10000
Mont-de-Marsan		750	400	250	LATVIA				
Marseille		950	316	500	Riga	YLZ	571	525	10000
Montpellier		1049	286	200	LITHUANIA				
Nice (Juan-les-Pins)		1219	248	250	Kovno	RYK	155	1935	7000
Nimes		1250	240	500	LUXEMBURG				
Paris (Eiffel Tower)	FL	6124	49.0	40000	Luxemburg	LOAA	1344	223	10000
Paris					NETHERLANDS				
(Les Essarts de Roi)		174	1725	13500	Bloemendaal		1220	246	.....
Paris		901	331	500	Amsterdam				
Paris	FPTT	671	448	1000	(Hilversum)	PFBI	1004	298	.....
Paris	F8GC	825	368	.....			160	1875	7000
		4262	61	1500	Amsterdam				
Paris		968	310	.....	(Hilversum)	PCJ	9590	31.3	.....
		7317	41	2000	Amsterdam (Huizen)	PHI	17775	16.9	40000
Paris (Pontoise)	FYA	15235	19.7	.....	Amsterdam (Huizen)	PH9	1004	298	.....
		11899	25.2	.....			160	1875	6400
		11308	25.6	.....	The Hague		1000	300	350
Rennes		1103	272	1500	Scheveningen	PCF	280	1071	2000
Rheims		777	386	500	NORWAY				
St. Etienne		1364	220	250	Aalesund	LKA	671	447	300
Strasburg (Brumath)	SPTT	867	345	6000	Bergen	LKB	824	264	1000
Toulon		1200	250	500	Bodo	LKD	662	453	500
Toulouse	MRD	1175	255	1500	Fredrikstad	LKF	837	358	700
Toulouse		770	381	8000	Hamar	LKH	511	587	800
GERMANY					Kristianssand	LKK	1274	236	500
Aix la Chappelle		1319	227	300	Notodden	LKN	671	447	900
Augsburg		536	560	300	Oslo	LKO	279	1071	75000
Berlin		716	419	1700	Porsgrund	LKP	662	453	800
Berlin (Zeese)		1635	184	35000	Rjukan	LKR	671	447	170
Berlin (Zeese)		9560	31.38	30000	Stavanger	LKS	1247	241	500
Berlin (Magdeburger Platz)		1058	284	600	Tromsøe	LKM	662	453	110
Bremen		950	316	300	Trondelag	LKT	608	493	500

POLAND

Katowice	734	409	10000
Krakow	959	313	1500
Lwow	779	385	.....
Poznan	896	335	.....
	9836	30.5	1500
Warsaw (Raszyn)	203	1412	25000
Wilna	779	385	500

PORTUGAL

Lisbon	CTIAA	1056	284	.....
		6995	42.9	2000
Lisbon	CTIAN	1056	284	10
Lisbon	CTIBO	1056	284	.....
		10710	28	150
Lisbon	CTIDH	1056	284	.....
Lisbon	CTIEB	1056	284	30
Lisbon	CTIGL	909	330	.....
Oporto	PRP1	1249	240
Oporto		1448	207	3000

RUMANIA

Bucharest	759	394	12000
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SPAIN

Almeria	EAJ18	1195	251	200
Barcelona				
(Mt. Tibidado)	EAJ1	860	349	7500
Barcelona	EZJ13	1119	268	10000
Barcelona	EAJ25	6000	50	.....
Barcelona	EAR25	6124	49.0	.....
Cartagena	EAJ15	1219	246	100
Madrid	EAJ2	750	400	750
Madrid	EAJ7	708	424	1500
Madrid	EAM	9772	30.7	.....
Madrid	EAR100	6976	43	.....
Madrid	EAR125	7025	42.7	.....
Oviedo	EAJ19	1119	268	30
San Sebastian, Monto				
Igueldo	EAJ8	662	453	1000
Seville	EAJ5	815	368	.....
Valencia	.....	1118	268	1500

SWEDEN

Boden	SBE	250	1200	600
Boras	SCA	1301	229	150
Eskilstuna	SCB	1220	246	200
Falun	SCC	932	332	500
Gavle	SCE	1470	204	200
Goteborg	SBB	932	322	10000
Halmstad	SCE	1391	216	200
Helsingborg	SCG	1301	231	200
Horby	SBH	1166	257	10000
Hudiksvall	SCH	1112	270	150
Jonkoping	SCH	1490	202	250
Kalmar	SCI	1220	246	200
Karlsborg	SAS	11760	52.5	.....
Karlskrona	SCJ	1530	196	200
Karlstad	SCK	1373	218	250
Kiruna	SCL	1220	246	200
Kristinehamn	SCM	1480	203	250
Malmberget	SCN	689	436	60
Malmo	SBC	1301	231	60
Motala	SBG	222	1348	.....
		3030	99	.....
		6065	49.5	30000
Norrkoping	SCO	1112	270	250
Orebro	SCV	1265	237	200
Ornskoldsvik	SCW	1373	218	200
Ostersund	SBF	770	390	600
Saffle	SCP	1220	246	400
Stockholm (Spanga)	.....	.....	.....	75000
Stockholm	SBA	689	436	1000
Sundsvall	SBD	554	542	10000
Trollhattan	SCQ	1112	266	250
Uddevalla	SCR	1058	286	50
Umea	SCS	1301	231	20
Uppsala	SCT	1062	453	150
Varberg	SCU	1058	283	300

SWITZERLAND

Basel	.....	244	1229	500
Berne	.....	246	1220	500
Beromunster	.....	653	459	60000
Geneva (Lancy)	.....	395	760	1200
Lausanne	.....	441	680	.....
Sottens	.....	743	408	25000

UNITED KINGDOM

Aberdeen	G2BD	985	301	1000
Belfast	G2BE	1238	242	1000
Bournemouth	G6BM	1040	288	1000
Cardiff	G5WA	998	310	1000
Chelmsford	.....	11750	25.5	.....
Daventry	G5GB	626	479	25000
Daventry	G5XX	193	1554	25000
Dundee	G2DE	1040	288	130
Edinburgh	G2EH	1040	288	350
Glasgow	G5SC	752	399	1000
Hull	G6KH	1040	288	130
Leeds and Bradford	G2LS	1500	200	.....
		1040	288	130
Liverpool	G6LV	1040	288	130
London				
(Brookman's Park)	G2LO	842	356	.....
		1150	261	30000
Manchester	G2ZY	797	376	1000
Huddersfield				
(Moorside Edge)	.....	626	479	.....
		996	301	30000
Newcastle	G5NO	1148	261	10000
Plymouth	G5PY	1040	288	130
Sheffield	G6FL	1040	288	160
Stoke-on-Trent	G6ST	1040	288	130
Swansea	G5SX	1040	288	130

YUGOSLAVIA

Belgrade	.....	696	431	.....
		10000	30	.....
Ljubljana	.....	569	527	3000
Zagreb	.....	977	307	700

RUSSIA

Achkabad	RW19	334	898	4000
Alma Ata	RW60	310	968	10000
Arkhangelsk	RW36	770	390	10000
Arnavir	RV50	587	511	1000
Artemovsk	RV26	811	370	1200
Astrakhan	RW35	435	690	1000
Baku	RW8	238	1261	10000
Baku	RW43	238	1261	1200
Bogorodsk	RA8	750	400	700
Dnepropetrovsk	RW30	511	587	4000
Erivan	RV21	343	875	4000
Gomel	RW40	621	483	1200
Grozny	RW23	636	444	1200
Imeni Pop	RV53	273	1100	3000
Irkutsk	RW14	188	1600	10000
Ivanovo-Vosnesensk	RW31	604	497	1200
Kazan	RW17	551	545	1000
Kharbarovsk	RW54	4273	70.2	20000
Kharbarovsk	.....	1053	285	500
Kharov	RW4	320	938	16000
Kharov	RW20	704	426	4000
Kiev	RW9	368	815	10000
Kiev	RW9	290	1034	36000
Koursk	RA34	521	575	1000
Krasnodar	RW33	650	462	1000
Leningrad	RW3	300	1000	20000
Leningrad	RV36	856	350	1200
Leningrad (Kolpinski)	RW53	300	1000	100000
Makhatch Kala	RW27	796	377	1000
Minsk	RW10	429	700	4000
Minsk	RW62	6420	46.7	100
Moscow	RW1	203	1481	100000
Moscow	RW2	417	720	20000
Moscow	RW37	793	379	1000
Moscow	RW38	5515	54.4	300
Moscow	RW39	793	379	300
Moscow	RW49	230	1304	100000
Moscow	RW61	51724	5.8	750
Moscow	RW58	269	1117	.....
		273	1110	40000
Moscow	RW59	6000	50	20000
Nalchik	RW51	748	401	1200
Nizhni Novgorod	RW42	394	761	4000
Nikolaev	RV43	820	366	.....
Novorossiisk	RA33	268	1117	4000
Novo Sibirsk	RW6	230	1260	4000
Odessa	RV13	668	450	4000
Omsk	RW44	472	636	1200
Orenburg	RV45	462	650	1000
Oufa	RW22	444	675	2000

Penza	RW56	640	469	1200	Okayama	JOKK	700	429	500	
Petropavlovsk	RW46	687	437	1200	Osaka	JOBK	750	400	10000	
Petrozavodsk	RW29	469	640	1200	Sapporo	JOIK	830	361	10000	
Piatigorsk	RW24	865	347	1200	Sendai	JOHK	770	390	10000	
Pokrovsk	RW55	730	411	1000	Shidmoka	JOPK	778	386	500	
Rostov on Don	RW12	354	849	4000	Taihoku, Formosa					
Rostov on Don		271	1106	4000	(Taipei, Taiwan)	JFAB	7590	39.5	.....
Samara	RW16	522	575	1200	Tokyo	JFAK	670	448	10000	
Samarkand	RW18	343	875	2000	Tokyo	JIAA	8105	37	.....
Saratov	RA32	714	420	200	Tokyo	JOAK	870	345	.....
Sevastopol	RA9	375	800	250			590	508	10000	
Simferopol	RW52	650	476	4000						
Smolensk	RW24	531	565	2000	NETHERLAND EAST INDIES					
Stalino	RW26	370	810	1200	Bandoeng	PLE	9410	31.9	.....
Stavropol	RW32	608	493	1200			18860	15.9	30	
Stchelkovo	RW49	320	937	.....	Bandoeng	IBR	5170	58	1000
Sverdlovsk	RW5	364	825	36000	Batavia	PK1AA	3998	5	500	
Sverdlovsk	RW43	541	554	.....	Djokjakarta	PK2AF	5996	50	500
Tashkent	RW11	256	1170	25000	Makassar	PK6KZ	11993	25	500	
Tashkent	RW47	421	712	2000	Malabar	PLF	17640	17	.....
Tiflis	RW7	280	1071	10000	Palembang	PK4PA	59964	5	240	
Tiraspol	RW57	838	354	4000	Semarang	PK2AG	7890	38	.....
Tomsk	RW48	645	564	1200	Surabaya	PK3AN	6040	49.7	.....
Tver	RA44	690	435	1200	Surabaya	PK3CH	662	45	250	
Ulyanovsk	RA51	600	500	20	Surabaya	.....	2142	140	500
Veliki Oustug	RW41	560	535	1200	Tandjong Priok	.....	6045	49.6	.....
Vladivostok	RW28	636	472	300			9579	31.3	.....
Vologda	RA41	338	875	1200			15336	19.6	.....
Voronezh	RW25	386	778	3000						
	ASIA				SIAM					
BRITISH MALAYA					Bangkok	HSP1	856	350	2500	
Johore Baru	VS3AB	7055	42.5	.....	Bangkok	HSP2	9500	31.6	.....
Kuala Lumpur	.....	.....	.....	.....			7300	41	2500
Singapore	VS1AB	7260	41.3	.....	Bangkok	HS7PJ	923	325	.....
							810	370	.....
CEYLON					Bangkok	HSP3	937	320	.....
Colombo	.....	600	500	1750	Bangkok	HS2PJ	10167	29.5	500
					Bangkok (Sala Daeng)	HS11PJ	882	340	400	
CHINA										
Canton	CAB	689	435	1000	OCEANIA					
Hangehow	XGY	895	335	250	Adelaide	VK5AD	1310	229	.....
Harbin	COHB	674	445	1000			229	417	300	
Mukden	COMK	723	415	2000	Adelaide	VK5CL	730	411	1000	
Nanking	XGZ	606	495	500	Adelaide	VK5DN	960	313	100	
Peking	XOPP	937	320	1000	Adelaide	VK5KA	1200	250	200	
Shanghai	NKS	952	315	50	Albury	VK2AY	1320	227	.....
Shanghai	KSMS	1088	277	50			1480	203	50	
Shanghai	RSC	1277	235	50	Ballarat	VK3BA	1300	231	50	
Shanghai	XGX	1071	280	50	Ballarat	VK3BZ	.....	.....	.....
Shanghai	XGAH	938	320	50	Brisbane	.....	880	341	.....
Shanghai	SCBL	.....	.....	.....			1145	262	600
Shanghai	XCTE	5000	60	.....	Brisbane	VK4BH	1380	217	600
Shanghai	.....	870	345	.....	Brisbane	VK4BK	1230	233	200
Tientsin	XOL	625	480	500	Brisbane	VK4QG	760	395	2500	
					Brisbane	VK2XL	1365	219	50	
FRENCH INDO-CHINA					Broken Hill	VK2CA	1050	286	50	
Haiphong	.....	3446	87	2500	Canberra (Kingston)	VK3LO	1400	214	50
Saigon	FZG	13010	25	.....	Geelong	VK2ML	1330	226	.....
Saigon	FZR	12010	20.5	.....	Gunnedah	.....	1500	200	50
Saigon (Chi Hoa)	F31CD	6119	49.1			VK3HA	1010	297	200
		840	358	12000	Hamilton	VK7HO	890	337	.....
					Hobart	.....	1160	259	50
HONG KONG							VL7ZL	580	517	600
Victoria	ZBW	845	355	1500	Hobart	VK6KG	1220	246	100	
					Kalgoorlie	VK7LA	1100	273	.....
INDIA					Launceston	.....	1080	278	20
Bombay	VUB	840	357			VK2XN	1340	224	50
		6114	49.1	3000	Lismore	VK4MK	1190	252	100	
Calcutta	VUC	810	370	.....	Mackay	VK3AR	610	492	1000
		11870	25.3	3000	Melbourne	VK3DB	1180	255	100	
Lahore	VUL	882	340	100	Melbourne	VK3DB	1350	222	200	
Madras	VUM	770	390	200	Melbourne (Carlton)	VK3KZ	800	375	.....
					Melbourne	VK3LO	9369	32	1000	
JAPAN							VK3ME	9500	31.6
Dairen, Manchuria	JQAK	760	395	1000	Melbourne	VK3UZ	930	322	.....
Fukuoka	JOLK	680	441	500			8820	34	100	
Hirasio	JHBB	7995	37.5	.....	Melbourne	VK3YB	1145	262	25
Hiroshima	JOFK	850	353	10000	Moss Vale	VK2MV	1220	246	.....
Kanazawa	JOJK	710	423	300			1460	205	50	
Keijo, Chosen					Newcastle	VK2HD	1110	270	200	
(Seoul, Korea)	JODK	690	435	1000	Newcastle	VK2KO	1415	212	200	
Kokura	JOSK	741	408	1000	Newcastle	VK2NC	1245	241	2000	
Kumamoto	JOGK	790	380	10000	Perth	VK6ML	1010	297	.....
Nagano	JONK	635	472	500			1135	264	300	
Nagoya	JOCK	810	370	10000						
Nilgata	JOQK	625	480	500						

Perth	VK6PR	880	341	200
Perth	VK6WF	690	435	1000
Rockhampton	VK4RK	910	330	2000
Swan Hill	VK3SH	1080	278	50
Sydney	VK2BL	855	351	.....
		9230	32.5	1000
Sydney	VK2FC	665	451	.....
		10520	28.5	1000
Sydney	VK2GB	950	316	600
Sydney	VK2KY	1070	280	300
Sydney	VK2ME	9590	31.3	.....
		10527	28.5	.....
		16330	18.4	.....
Sydney	VK2UE	1025	293	50
Sydney	VK2UW	1125	267	100
Sydney	VK3BO	970	309	200
Toowoomba	VK4GR	1000	300	50
Townsville	VK4TO	1170	256	200
Trafalgar	VK3TR	1280	234	50
Wangaratta	VK3WR	1260	238	50
Wollongong	VK3WL	1435	209	50
FIJI				
Suva	VPD	14420	20.8	.....
NEW ZEALAND				
Auckland	ZL1YA	910	329	500
Auckland	ZL1ZB	1090	275	18
Auckland	ZL1ZJ	1320	227	26
Auckland	ZL1ZQ	1190	252	13
Auckland	ZL1ZR	1090	275	40
Christchurch	ZL3YA	980	306	500
Christchurch	ZL3YA	980	306	500
Christchurch	ZL3ZC	1200	250	.....
		6000	50	250
Dannevirke	ZL2ZU	1100	273	7 1/2
Dunedin	ZL4YA	648	461	500
Dunedin	ZL4ZB	1080	279	20
Dunedin	ZL4ZL	1220	246	180
Dunedin	ZL4ZM	1080	278	45
Dunedin	ZL4ZC	1080	278	30
Ekaeteahuana	ZL3ZE	1210	248	5
Gisborne	ZL2ZJ	1150	260	20
Gisborne	ZL3ZM	1147	261	110
Greymouth	ZL3ZR	820	366	20
Hamilton	ZL1ZH	630	476	50
Hastings	ZL2ZJ	1330	226	15
Hastings	ZL2ZL	1360	226	15
Invercargill	ZL4ZJ	1160	259	8
Manurewa	ZL1ZM	1210	248	10
Masterton	ZL2ZD	1180	254	2 1/2
Napier	ZL2ZH	1260	238	13
New Plymouth	ZL2YB	1230	244	100
North Invercargill	ZL4ZP	1160	259	16
Palmerston North	ZL2ZF	1050	286	150
Palmerston North	ZL2ZO	1120	268	10
Wairoa	ZL2ZF	820	366	4
Wanganui	ZL2ZK	600	500	120
Wellington	ZLW	10990	27.3	.....
Wellington	ZL2XX	4776	62.8	.....
Wellington	ZL2YA	720	416	5000
Wellington	ZL2ZR	600	500	150
Wellington	ZL2ZW	1120	268	.....
SAMOA				
Apia	5ZA	940	319	.....
AFRICA				
ALGERIA				
Algiers	.....	824	364	2400
Algiers	F8KR	6667	45	200
CANARY ISLANDS				
Las Palmas	EAR5	1071	280	500
Teneriffe	EAR58	7211	41.6	500
EGYPT				
Cairo	SUS	9110	32.8	.....
Cairo	.....	.....	.....	1000
Cairo	.....	.....	.....	.....
KENYA				
Nairobi	VQ7LO	6000	50	.....
		6134	48.9	.....
		9616	31.2	.....
		750	400	1000

MADAGASCAR				
Tananarive	.....	5552	54	500
MOROCCO				
Casablanca	CNO	983	305	25
Casablanca	AIN	5879	51	.....
Casablanca	F8MC	10710	28	.....
		6875	43.6	.....
Rabat	.....	724	416	.....
		6877	43.6	2000
Rabat	.....	12830	23.4	6000
Rabat	.....	9300	32.3	6
TUNISIA				
Carthage	TNU	162	1850	.....
Constantine	F8KR	7005	42.8	.....
Tunis	TUA	235	1275	500
UNION OF SOUTH AFRICA				
Bloemfontaine	.....	588	510	750
Cape Town	ZTC	810	370	1000
Durban	ZTD	731	410	1000
Johannesburg				
(Maraisburg)	ZTJ	667	450	.....
		6098	49.2	15000
Pretoria	.....	1000	300	50

The Month's Changes

Frequencies				
540	.....	Windsor, Ont.,	from 630.	
790	CMBT	Havana, Cuba,	from 970.	
930	CKX	Brandon, Man.,	from 540.	
1070	XEG	Mexico City, Mexico,	from 1360.	
1420	KCMC	Texarkana, Arkansas,	from 1500.	
Power				
890	WJAR	Providence, R. I.,	from 500 to 250.	
965	CMBD	Havana, Cuba,	from 150 to 250.	
1070	XEG	Mexico City, Mexico,	from 100 to 250.	
1120	WDBO	Orlando, Florida,	from 500 to 250.	
Calls				
1000	WORK	York, Pa.,	from WGEO.	
1420	WERE	Erie, Pa.,	from WEDH.	
1500	KNOW	Austin, Texas,	from KUT.	
New				
690	VCX	Halifax, N. S.		
740	.....	Portsmouth, N. H.		
1420	.....	Americus, Ga.		
Deleted				
830	WGM	Jeanette, Pa.		
1210	WPAW	Pawtucket, R. I.		
1310	KFUP	Denver, Colo.		
Owners				
618.5	KZRM	Manila, P. I.,	to Erlanger & Galinger, Inc.	
1200	WFBC	Knoxville, Tenn.,	to Virgil V. Evans.	
Chains				
1200	KERN	Bakersfield, Cal.,	new CBS.	
1210	WMBG	Richmond, Va.,	new CBS.	
1430	WFEE	Manchester, N. H.,	new CBS.	
1450	KTBS	Shreveport, La.,	new NBC.	
1500	KDB	Santa-Barbara, Cal.,	new CBS.	
Permit to Change Frequency				
580	KGFX	Pierre, S. D.,	to 630.	
940	KGU	Honolulu, Hawaii,	to 750.	
1210	KDFN	Casper, Wyo.,	to 1440.	
1420	KFYO	Abilene, Texas,	to 1310.	
Permit to Increase Power				
940	KGU	Honolulu, Hawaii,	from 1000 to 2500.	
Permit to Change Location				
1420	KFYO	Abilene, Texas,	to Lubbock, Texas.	
Heard on Other Waves				
CFOH	North Bay, Ont.	930 on 960.		
CHGS	Prince Edward	1120 on 1135.		
CHNS	Halifax, N. S.	815 on 925.		
CMBR	Havana, Cuba	1500 on 1460.		
CMCA	Havana, Cuba	1225 on 1235.		
CMCJ	Havana, Cuba	620 on 630.		
CMCU	Havana, Cuba	1285 on 1270.		
CMDC	Havana, Cuba	660 on 675.		
WFDV	Rome, Ga.	1310 on 1370.		
XEB	Mexico City	1030 on 1070.		

FILTERED AERIAL

•

A revolutionary antenna composed of a solid straight wire insulated, and over the insulation is helically-wound enamelled wire the entire length.

The straight inside wire is connected to a ground at each end, while one end of the helically-wound wire goes to the aerial post of the set.

Working on the transformer principle, the Filtered Aerial picks up very weak signals and amplifies them.

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Permits the use of the radio at night when others want to sleep and brings in those tantalizing DX stations that can't quite be brought out on the loud speaker.

Requires no risky changes in the wiring. Simply remove the last tube before the speaker and insert adapter in the socket. This cuts out power stage and reduces volume to comfortable point. If last stage is in push-pull, remove both tubes and place adapter in either socket.

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For five-prong tubes (Pentode) an extra adapter is required—price, \$1.00 or \$2.50 complete.

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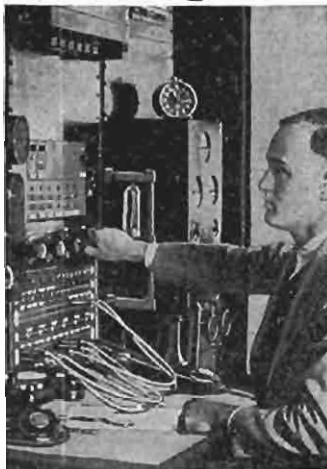
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