

THE FEBRUARY 1932

RADIO INDEX

WHAT'S ON THE AIR TONIGHT?



25^c

**Tuning Thrills Above and Below
the Broadcast Band**

The Story of the Goldbergs

How to Improve Your Set

No. 56

N. S. E.

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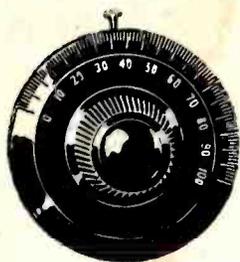
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You'll be delighted with this cover.

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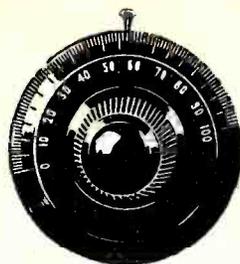
FEBRUARY 1, 1932



RADIO INDEX

REG. U. S. PATENT OFFICE

FRED CLAYTON BUTLER
Editor and Publisher



EIGHTH YEAR

Contents

NUMBER 56

Frontispiece — Mary Smith, Dramatic Actress of Stage and Screen
She will be heard in several NBC features

Tuning Thrills Outside the Broadcast Band	2
More Radio Cross-Call Puzzles	4
The Story of the Rise of the Goldbergs	6
Here's Help in Your Radio Troubles	8
Our Readers Conduct a Monthly Meeting	11
Betty's Radiographies of Your Friends of the Air	14
The DX Department, Reports and Comment	17
This Month's Station Changes	25
A Lesson in Ancient Radio History	27
What's On the Air Tonight?	31
A Complete Index by Frequencies	40
A Complete Index by States and Cities	54
A Complete Index by Call Letters	60
The Police Broadcasting Stations	66
Their Time on the Air, DX Programs	67
The TransPacific Stations	67

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Tuning THRILLS Outside the B. C. Band

THE mid-winter season is at hand, and many nights bring excellent radio reception which provides the real radio enthusiast with unending thrills as station after station is brought in from afar. The winter months are best for radio reception; the cold, clear atmosphere, and the crisp darkness of long nights, seem to carry the weakest signals thousands of miles without appreciable loss of energy.

Science is unable to determine why radio is best during wintry weather. But it is obvious, even to the most casual radio fan, that reception is best when the air is clear and cool. Radio scientists know that such weather breeds little of the static and blanketing effects so common in summer. But fading, that great unknown natural phenomenon, is present at all seasons, and must be considered a necessary evil.

When the weather is cold, and temperatures drop far below the freezing point over much of the country, clear skies filled with myriads of twinkling stars indicate an absence of an absorbing atmospheric blanket between us and the outer region where the Heaviside Layer surrounds the earth. It is certain to be a wonderful night for DX reception, and stations thousands of miles away will roll in with astonishing clearness. If the night could be long enough, and station announcers would only speak more frequently, we could greet the dawn with an imposing list of call letters. But, always, when the gray morning appears, the fascinating signals, like mysterious Arabs, fold their tents and silently fade away!

Static and Weather

Cold and clear weather does not always mean good reception; it may bring a night of severe static, which, to the student of radio-weather, means that the following morning will dawn dreary and cloudy with a promise of snow. Static, then, on good nights presages stormy weather. And, conversely, static-free nights, observed toward the close of stormy weather, indicates the coming of colder and clearing weather with

Winter Brings Them Says B. Francis Dashiell

excellent radio reception prevailing during the following nights. One need not be an expert to understand the subtle hints thrown out by winter weather in order to prepare for DX conditions.

"Fair and Colder Tonight," says the forecast in your morning paper. So, why not get ready to tour the world after the winter sun disappears beneath the western horizon? Thrills abound in the ether. To get the most enjoyment let us DX on all the waves, for it must be remembered that the entertainment broadcast band embraces but a tiny portion of the wave channels used for radio. But, are you prepared to take advantage of the wonderful radio opportunities offered you from every civilized region of the world?

Above and Below the B. C. Band

Let us start from the beginning of practical wave bands. At the bottom of the scale we shall find the ultra-short waves, and only a few stations are listed at 15 meters or less. They are hard to get, for one must possess a remarkable short-wave set and much patience in order to tune in these frequencies. Stations sit on a razor-blade edge, and we find the same situation exists as we go on up toward the higher waves. The higher we go into the broadcasting bands, or toward the lower frequencies, the less selective we shall find our sets becoming.

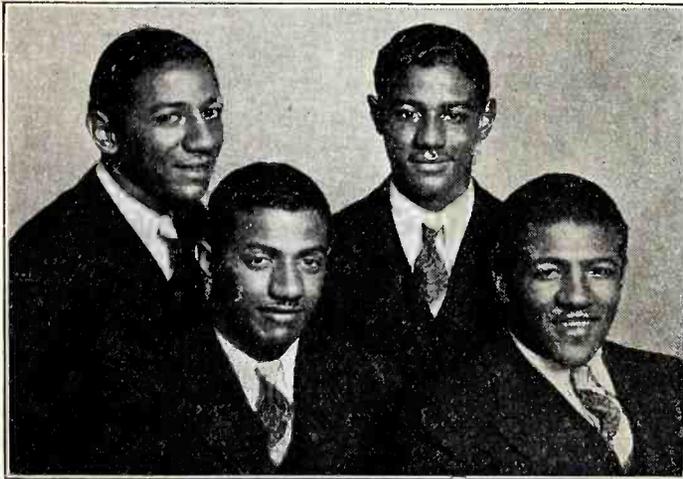
When we step out into the short waves we need a good short wave receiver. It may be a complete and separate unit built especially for the purpose. Or it may be an adapter that takes the place of the radio frequency circuit in any tuned set. This system enables us to tune to the short waves, and then pass the detected signals into and through the audio-amplifying system and speaker of the broadcast receiver. If we use a superheterodyne receiver we can procure a short wave converter that attaches to the aerial and ground ter-

minals of the set. This is a simple device, for it really is a small oscillator that takes the short wave signal and "beats" it against the intermediate frequency of the superheterodyne so that the resulting frequency will pass through the receiver. The superheterodyne should be set approximately at about 1,000 kilocycles, or 300 meters, and the tuning is accomplished by the single dial of the separate converter. It is a simple device, remarkably efficient, and should have been discovered years ago. It will do more than any other thing to encourage the reception of short waves by average broadcast listeners.

The short waves offer much fascination; they carry far with little input power, and are used for all long distance transmission during daylight hours en-

What exists above this limit? Thousands of radio listeners have asked this question. There are stations transmitting on waves as long as 20,000 meters, or about 12 miles, with a frequency as low as 1500 cycles a second! True, most of the longer wave stations operate in code, for voice modulation of carrier waves is impossible at such low frequencies—often below the range of audible sounds.

When we leave the broadcast channel we come across the vital safety or emergency wave bands—600 meters, on which thrilling S. O. S. signals flash across the seas bringing help to vessels in danger, and which still all adjacent and interfering entertainment broadcasts to the wonderment of an unenlightened radio public. Then we find the aircraft broadcasts, with exciting plane movements



The very first picture of the Mills Brothers, whose story was in the December RADEX. So perfectly do they simulate brass instruments that even expert musicians have been fooled. Left to right: Herbert, 19, Donald, 17, John, 21, and Harry, 18. Over the CBS at 9:00 p.m. EST, Mondays and Thursdays.

countered around the world. As we tune on through the short wave band we encounter amateur stations conversing with each other across the country, we hear the whine of television, there is a maze of police stations with their exciting messages of adventure, and, at 200 meters, or 1500 kilocycles, we emerge into the entertainment broadcast band. Here there is congestion, and stations are crowded together on the dial. But as we go still higher into the waves, toward the 550 meter limit the tuning becomes broader, and stations do not appear so closely crowded on the dial. At 550 meters, or 540 kilocycles, we leave the limits of the dial, after the last available station is tuned in.

and weather advices from airway stations to planes in flight. These are in voice. Radio beacon and compass stations maintained for the benefit of ocean and aerial navigation keep up their ceaseless buzzing of characteristic signals.

Still higher in the wave length scale are the ship and shore radio stations working in code, using tube, arc and spark transmitters, no two of which sound exactly alike. The great flute-like arcs of the few remaining great stations of this type scattered over the globe hold the fascinated attention of the listener, although he cannot read a bit of code. And, late at night, comes the crashing of NSS and WCC, with their hours of

(Continued on page 27)

MORE RADIO CROSS CALLS

Here Are Three New Puzzles

THOSE December puzzles certainly helped to "save the surplus" of RADEX premiums. There were only a very few who were fortunate enough to send correct solutions to all three problems. Although one of these was perhaps the most difficult we have ever published, oddly enough more puzzlers failed on the simplest one of all. KYW was the call in No. 2 on which most of our readers stumbled and fell.

The "problem of the Five C's" was the one that called for the greatest patience and perseverance. "No. 3 sure was a tough proposition," comments Fred Wakerell, 380 Slater Street, Ottawa, Ont. "I gave it up three times but was ashamed to admit defeat so dug in again. Time certainly flies when you are trying to solve Mr. Johnson's puzzles." Mr. Wakerell was one who lost out because of KYW. "Mr. Johnson had me 'bow-legged' for three hours looking for the combination to his puzzle," says Edwin M. Prosser, 84 Saratoga Avenue, Brooklyn, N. Y. "This last puzzle was the best one that has appeared for a long while," comments Bernard P. Grebe, 732 Madison Ave., Reading, Pa. "Let's have more like it."

In answer to Mr. Grebe's plea, Forrest Moore, Denver, Colo., submits a problem this month of which he says. "Here is a crossword puzzle which I have worked out which you may be able to use. I spent quite a lot of time on this and believe that it is solvable only one way without more information than 'The Four C's'."

Answer for January

Following is the correct solution for No. 1:

WWWWWCW
NEBRASKA
AABDLFCC
COLORADO

The Elimination Problem, No. 2, looked like an almost endless job, but

with a little brain work, it was actually solvable in a very few minutes. How many went at it in this way: First, make a list of those letters which appeared twice and three times. Those that must be eliminated are obviously those calls which have two or more letters alike that do not appear in the list. In the sentence given the letters not duplicated are d, g, h, i, j, m, p, q, s, t, v, x, y, z. Therefore the calls which cannot be made out of the letters of the sentence are 22 in number: CJCJ CMCM KGFG KGGC KGGF KGGM KMMJ KPCC KTAT KWJJ WDOD WHDH WJJD WMMN WPAP WSJS WSVS WWSW XEX XFX HHK and T14NRH.

The cross-call puzzle by Mr. Raba was solved as follows:

Horizontal

3 KOA, 4 KEX, 6 KWLC, 8 WFBE, 9 WIBO, 10 KOH, 11 SCT, 12 WGL, 14 XEK, 15 WOW, 16 OAX, 18 XFI, 19 WKBF, 21 KFI, 22 WIP, 23 CMJC, 25 KSL, 27 WRR, 28 KTM, 29 WOR, 30 KQW, 31 KGA, 33 WOV, 34 WRAK, 35 WCKY, 37 WDEL, 38 KGY, 39 WJZ.

The February Problems

(See page 16 for No. 1 blank)

No. 1 is that by Mr. Moore above referred to, which he thinks can be solved without a key. No. 2 was designed by Reggie Ogan, Carpenteria, Calif. The problem is to change Leaf to Stem, Stem to Limb and Limb back to Leaf by filling in nine station calls. Only two of the letters in any one line may be used in the next. Thus LEAF might be changed to WDAF and so on. Here is the puzzle:

L	E	A	F	S	T	E	M	L	I	M	B
□	□	□	□	□	□	□	□	□	□	□	□
□	□	□	□	□	□	□	□	□	□	□	□
□	□	□	□	□	□	□	□	□	□	□	□
S	T	E	M	L	I	M	B	L	E	A	F

No. 3 is another cross-call. We have had so many requests for more of these puzzles from our crossword addicts, that we are using this symmetrical puzzle designed by Maurice Sylvan, Chicago, Ill. Most of the descriptions are Mr.

Sylvan's original own.

Across

- 1- 4—First three letters give another station in same state.
- 5- 8—First two letters are like last two.
- 9- 12—First three letters are S. C. station.
- 13-166—Owner's initials are H. H. H.
- 17- 19—A newspaper station.
- 20- 23—Reverse. In M-22.
- 24- 26—On 1310.
- 27- 30—Reverse. Where groceries are sold.
- 31- 34—Inserting A after each of last three letters spells a sleeping garment.
- 35- 38—Last three letters reversed is a chain system.
- 39- 42—What city bans drugs?
- 43- 45—Reverse. A MST station sharing with a PST.
- 46- 47—Middle letters of five stations.
- 48- 50—First letter repeated at end makes Pa. station.
- 51-54—Reverse. First in Frisco.
- 55- 58—Mass. station on till 2 a.m., EST.
- 59- 62—First three letters is a station in Omaha.
- 63- 66—On 1370.
- 67- 70—College for Women.
- 71- 74—Reverse. Three countries on this wave.
- 75- 78—A radio manufacturer.
- 79- 82—In a steel city.
- 83- 86—Only chain station in the state.
- 87- 90 —Reverse. On 1200.
- 91- 93—One of three CBS stations on this wave.
- 94- 95—Last letters of a Tennessee station.
- 96- 98—Middle letter repeated makes station in Nebraska.
- 99-102—Reverse. Holt-Rowe.
- 103-106—Chicago's only Sunday station.
- 107-110—On 1500.
- 111-114—The city's name begins with a bright color.
- 115-117—The home of RADEX.
- 117-119—The same station either way.
- 119-122—Owned by "Kill Worry; Keep Health."
- 122-124—Reverse. Voice of the Rockies.
- 125-128—Material used by city's principal industry.
- 129-132—Cuban station owned by an American.
- 133-136—A good station for a laundry.
- 137-140—Reverse. Where flour is made.

Down

- 1- 33—A Pacific station with last two letters alike.
- 2- 34—All letters are first four of city.
- 3- 21—In Clarinda.
- 4- 35—Contained in "Crown."
- 5- 38—This station has three calls.
- 6- 26—In Washington.
- 7- 39—Reverse. Mrs. Ippy.
- 8- 40—Define barrell then reverse it.
- 17- 51—Four A's in this state.
- 18- 52—Owned by sister station.
- 23- 56—Shares time with station in same city.
- 24- 57—A university station.
- 29- 61—Reverse. On 1310.
- 30- 62—About the center of Florida.
- 45- 71—On 1200.
- 48- 70—Add the middle letter and get another station.

- 54- 82—California station with permit to move.
- 55- 83—Reverse. Last three letters reversed are another station.
- 58- 86—North America's most powerful is on this wave.
- 59- 87—Also in a steel city.
- 65- 73—Last letters of an Indianapolis station.
- 68- 76—Last letters of a Yonkers station.
- 70- 96—On Lake Erie.
- 79-111—Only NBC station on this wave.
- 80-112—Reverse. Daytime on cleared wave.
- 81-101—Pickwick.
- 84-117—Reverse. Owned by California newspaper. (Deleted June, 1931.)
- 85-118—Reverse. Eight stations on this wave with same power.
- 89-123—In city with same name as an automobile.
- 90-124—Shares time with 29-61.
- 102-134—The city owns it.
- 103-136—A Boston daylight.
- 106-137—Canadian owned by a doctor.
- 107-139—Station reversed defines masticate.
- 108-140—Reverse. Last three are first three of city.
- 113-133—Reverse. Shares with "Hello World."
- 115-135—In a state capital.
- 120-138—Reverse Tennessee and get Cuba.

All of the calls used in these puzzles, unless otherwise specified, will be found in the January RADEX, but may or may not appear in this issue. Get the correct answers to all three problems to us before February 20th and receive either the March RADEX or the map. Subscriptions will be extended when request is made.

Next month Susie Sexton will tell you about Colonel Stoopnagle and Budd.

"Yoo Hoo, Mrs. Bloom; Lissen Darling"

The Goldbergs by
Susie Sexton

JAKE GOLDBERG, of Radio's "The Rise of the Goldbergs," got his start in life as a pants presser on Hester Street, the Bowery's push-cart boulevard. But for the real Jake opportunity's door was first opened out in Cleveland, Ohio, many years ago by none other than Harry Bernstein, the Jewish Czar of Orange Street.

Obviously Jake was excited as he stepped off the elevator into the mellow lamplight of the National Broadcasting offices in New York. Mollie was late. Those tickets for her Thanksgiving neighborhood party weren't ready yet.

"What would you say if I told you I got my first start on the stage out in Cleveland when I was only about sixteen?" he asked, eyes twinkling, face beaming. Radio listeners imagine he is a tall man because his voice sounds big on the air. In reality he is rather short with the slightly portly figure suitable to father roles.

"When I was only a youngster," he went on. "Bernstein built his own theatre for a stock company to produce Jewish plays. And because Orange Street had a large Italian neighborhood then and I had picked up their language in San Francisco, he engaged me to do Italian sketches. At seventeen I played an old man of eighty-eight. One week I was a woman, another a boy, now a gunman and then again a Jewish character.

Maybe you have suspected that Jake isn't "Jake" except before the microphone. To the NBC officials and on the programs of "Wonder Boy," now playing on Broadway, he is James R. Waters. And that isn't his real name either. He was born James Rosewater back in Austria-Hungary something like fifty years ago.

"How did you happen to change your name?" I asked.

"When I began to appear in American plays the managers told me Rosewater would never do," he said. "So I made two words of Rosewater and shortened the first into the initial R making it James R. Waters. My family left the old country when I was still very young and went to San Francisco. But they did not like it. On their way home they stopped in Cleveland leaving me with relatives when I was about ten. I sold papers, sang in church choirs, played the violin, and did anything else to make a living."

His eyes wandered down the hall.

"Mollie, come here," he called. An attractive, smartly-dressed young woman, wrapped in furs as luxurious as those of a movie star, came in. It was Miss Gertrude Berg, author and originator of "The Rise of the Goldbergs," also historian of their passage from the Bowery to the Bronx via Park Avenue. Mollie is taller than Jake, has large, dark eyes, thick, dark braids wound twice around her head, a low voice and shy manner.



"How do you make Mollie seem so real on the air," I asked. "Did you take the character from life?"

"Yes," she answered, "Mollie is really my grandmother, Mrs. Jeannette Netter, a Russian. She was the sweetest woman I have ever known. As a child I adored her and tried to act like her in everything. About ten years ago I thought of putting her into my work."

"Was it hard at first?" I asked.

how they talked and acted, eh? I had played Jewish characters all my life—in stock, in the Yiddish theatres, five years with 'Abie's Irish Rose,' eight around the world as Abe in 'Potash and Perlmutter,' and a long world tour in 'Friendly Enemies.'"

"But Jake was different. Men in the cloak and suit business have their own mannerisms. All of them shout at the top of their lungs at everybody and

Here we have the Goldberg Family in one of their interesting and inimitable sketches of Jewish family life. On the NBC - W E A F chain every day except Sunday at 8:45 p.m. EST.



"Very," said Mollie, with her quiet smile. "I was born in New York and have always lived here. As a small girl I wrote poems and essays. Later I translated plays for the Yiddish Theatre. Then I wrote the first Goldberg sketches. No one would consider them until NBC took them for a tryout. At first we broadcast once a week. But later they became so popular that Pepsodent bought them for a nightly program.

"And how about Jake," said I. "Was Jake modelled from real life?"

"It was very hard to find a good Jake," said Mollie. "We tried many actors, but none of them had the right voice until I discovered Mr. Waters playing in Richard Bennett's 'Jarnegan' as Papa Isaacs."

"And Mollie," Jake broke in, "do you remember how I went down to all the cloak and suit houses to discover

everything in their place of business. They stand back with their fingers in the side of their mouths when watching a model try on a garment. When such a man gets home, some woman—his wife, of course—is always getting the best of him without raising her voice at all. He always thinks he has his own way, but he never does. Just like Mollie and Jake, eh, Mollie?"

Mollie nodded.

Then I discovered a few things about Jake and Mollie off the air. Mollie is married to a sugar engineer and has two children of her own. She is an excellent musician and paints for amusement. "The Rise of the Goldbergs" is always written for two weeks in advance. All the family rehearse each day from five in the afternoon until the sketch goes on the air.

(Continued on page 28)

Here's HELP in TIME OF TROUBLE

Too Much Volume

My R. C. A. Victor receiver, using the new two-volt tubes and Aircell battery, is too loud and cannot be tuned down to a softer tone without becoming muffled or blurred. What have you to suggest?

It seems that the arrangement for volume control has become defective. It is suggested that your service man examine the device and make such repairs or replacements necessary. At the same time we think it best to have the tubes tested, for, while they are new, it is possible that one or more are defective.

Using Phonograph Pick-Up for Amplifier

I built a two-tube short-wave receiver and connected the audio output to the studs of the phonograph pick-up input of my Victor receiver, but the results were unsatisfactory. Why can't I use the phonograph amplifier in this way instead of going to the trouble of removing the detector tube and plugging in an adaptor?

The output of your little short-wave receiver, while ample for headphones, is far from sufficient to operate the input circuit designed for magnetic pick-up from phonograph records. If you add about two stages of audio amplification to your short-wave receiver, there will then be enough input voltage to operate the audio stage of the Victor speaker circuit. But, then, you can operate a battery speaker direct from the short-wave set and it would be unnecessary to use the radio speaker. The use of the phonograph input circuit is not satisfactory when using a short-wave adaptor set. We do not think it practicable to present a circuit designed for this particular instance as so few of our readers are in a position to use such a short-wave system, and the appeal would be limited. Furthermore, we do not believe the best results would be obtained when using this method.

Relative Merits of Tubes

What make of tube is the best to use? I understand that one certain make is a better oscillator than all others.

How to Improve Your Radio Set

Of course, it should be obvious that we cannot attempt to decide upon the merits of the several makes of tubes. We have made no performance tests, but, like most people, we can have our opinions. There is very little difference between the standard makes of tubes, but all manufacturers have certain claims of excellence which they like to set forth. These tubes are made under specifications laid down by the tube makers' associations, and no two vary in essential arrangements. This alone makes it difficult to decide between two types of tubes. However, some peculiar characteristics, and the fact that better material and workmanship may be used by one maker, naturally gives some few tubes a higher rating of apparent efficiency.

Variable-Mu's in Majestic Receiver

I have a Majestic, Model 50, which requires a complete replacement of tubes. Can I use the -35s in place of the -24s?

This receiver uses a double volume control, across the aerial and ground, and also to the cathodes of the first radio frequency tube and the first detector. For this reason it is not practicable to use the variable-mu tubes in place of the older -24s. The -35s require a stronger input signal voltage than the -24s, and this cannot be obtained from the present volume control connections. Since this method of control would have to be removed and replaced by another different arrangement, the change would cause considerable work and expense. The advantages in this receiver of the -35 tubes would hardly be noticeable, and the change cannot be recommended as worth-while.

Fails to Operate

A friend has a H. F. L. nine-tube battery set. It stopped operating, and we have put in a new volume control because the old one seemed to cause the trouble. Now everything seems perfect but the set has failed. What do you think may be the trouble?

The trouble may be found to be in a burned-out audio transformer primary coil, and the coils of these amplifying transformers should be tested for electrical circuit. This may be done by connecting a 22½-volt B-battery and voltmeter across the plate and positive B-battery terminals of the transformers. If the coil is intact a small voltage will be registered on the meter; if there is a break, no voltage will be indicated. In case of trouble the transformer must be replaced, as it is impracticable to repair it. The primary windings frequently burn out because of the high voltage passing continuously through from the B-battery.

Was the volume control replaced in exactly the same manner as the old one? Check over the wiring. See that all tubes are perfect, for the mere lighting of a tube does not indicate that it is perfect. Test out the entire circuit for electrical conductivity, especially the leads going to the speaker terminals.

Signals Are Weak

My Majestic, model 20 chassis receiver, worked well and then ceased operating. It still brings in local stations, but very weak. What can I do to increase the strength of the signals and bring the set up to its previous standard?

We suggest that perhaps one of the audio amplifying transformers has burned out, and its primary winding should be tested as explained in a previous question this month.

Have the tubes tested again, and replace defective ones. The resistors should be tested also, and the ground and aerial connections carefully examined. There may be trouble in the field or voice coils of the speaker.

For your information there are two transformers which might burn out. One is an input between the second detector and the two -45 push pull audio tubes, and the second is an output between these tubes and the voice coil of the speaker.

Failing in the above personal tests it will be wise to use the services of a repair man who has meters to test out the entire continuity of the circuit.

Changing Set for Short Waves

I have a Freed-Eiseman receiver that I

would like to rewire with plug-in coils, etc., so that I can also receive short waves in addition to the broadcast waves. Tell me what to do.

You cannot rewire the coils of your receiver so as to make it respond to all the waves, including the lower bands. You can build or procure a short wave adaptor that will attach to your set so that short waves can be received. But there is really nothing so satisfactory as a short wave set built entirely for the purpose, unless one has a super-heterodyne receiver and uses a short wave converter in connection with it.

Using 2-Volt Tubes

How can I use the new -30 and -31 two-volt tubes in a three-circuit tuner that has used -01A and -99 tubes?

The two-volt tubes (type -30) can be employed in a regenerative three-circuit receiver, but the -31 tube can be used in the last audio power stage only, for it is a powerful amplifying tube. You must be careful not to use more than two volts on the filament of the tubes. The performance should come between the -01A and -99 types, and very satisfactory for this style of receiver.

When this style of circuit is balanced, and proper condensers and coils used, it cannot be excelled by any other type of



Andy Sannella, a veteran conductor of radio and recording orchestras, composer and a star of many instruments.

small circuit for distance getting, especially with headphones. Its howls and squeals, however, have made many enemies among radio listeners.

Pentodes in Majestic

I have a Majestic, model 60, and wish to substitute the -47 pentode tube for the present two -45s now in the set. What shall I do to make the change?

The new pentode tubes may be used in this particular set with the use of adaptors, but the benefit will not be sufficient to warrant the change. When -45s are used in push pull, as they are in your set, there can be no gain in volume or tone when two -47s replace the -45s. In some midget sets, however, the pentode gives greater volume, and the advertisement you quote most likely referred to such situations. And you cannot remove one -45 and replace the other with a single -47, and thus use but one power tube in a push-pull output circuit.

What Are the Best Receivers?

I wish to purchase a set to cover all broadcasts, but must I use plug-in coils for the short waves? What is the best set to select from the enclosed list?

It should be clearly obvious that we cannot advise which of the sets listed by you should be purchased. However, the list was well prepared. The following information may be of help in selecting a set of the kind you desire.

There are several "all-wave" receivers now on the market, and they are very satisfactory. They have a combination of antenna coils which permit of a selection of waves of different lengths without the necessity for plugging in different coils. A simple switch does the work. Or, if you have a mind to purchase a good superheterodyne receiver, you can also procure a converter which permits of short waves being received on the standard broadcast set. It is no longer necessary to change coils in a combination receiver when listening to short waves.

Loop Aerial On Superhette Receiver

How can I attach a loop aerial to my R. C. A. Superhette receiver so that it will operate similar to the model 28 Radiola? A loop similar to that used on the RCA

28 cannot be used on your Superette because the wiring of the two sets is entirely different. The suggestion is impracticable, but instead, you might make a loop antenna of another type. Wind 30 turns of covered wire on a frame about three feet square and connect each end of the loop to the aerial and ground terminals of the Superette. A ground wire should also be used in the usual manner.

But when a loop is used the signal voltage received is very weak, and not sufficient to excite the receiver sufficiently. It is advisable to use an additional stage of radio-frequency amplification. This may be accomplished by fixing up a small container with a 2-volt -30 amplifier tube, dry cell, and small 90-volt B-battery. A variable condenser of .0005 capacity is connected across the loop ends, and one of these also goes to the grid of the -30 tube, and the other end to the -A and -B leads. The plate of the tube connects to the antenna terminal on the receiver *through* a .004 fixed condenser. The plate *also* connects *directly* to the positive B 90-volt battery through a small choke coil. The -B side of the battery assembly connects to the ground terminal of the receiver, which also is attached to the ground in the usual manner. This auxiliary circuit amplifies the incoming signal so the receiver will operate better, and acts as a wave trap tuning device as well.

Some Squeals and Howls

I have a Pierce Airo receiver that squeals and howls at times. I use -01A and -12A tubes, and a -00A detector. What can I do to stop this nuisance? Also, I would like to have a circuit diagram.

We do not believe the -00A tube to be a proper detector in this receiver. And the -12A might prove best as the last stage audio amplifier tube, yet it also makes a good detector. Use -01A tubes throughout the rest of the circuit. A new tube in the detector frequently stops howling. A broken or open grid wire in the circuit will cause continuous howling, and a defective secondary in an audio transformer gives rise to similar symptoms. Check over the grid leak and

(Continued on page 25)

Monthly GATHERING of the CLAN

RADEX Family Discusses Radio

THE Editor has been pretty successful for eight years in hiding himself behind that title. Now comes Arthur L. Robb, 1338 Mulvane Street, Topeka, Kans., with the following comment: "To prove to you that I actually read RADEX from cover to cover, I have some comments to make about the statement of ownership which appeared on page 67 of the December issue. The first thing that is apparent is that one Fred C. Butler is practically synonymous with The Radex Press. I suggest that a sketch be written up about him and published in RADEX just as is done with other individuals connected with Radio. I, for one, would like to know just what sort of a person he is who can put out this sort of paper. The sketch might also contain a history of the development of RADEX; where he got the idea; how the magazine was started, etc. While some fans doubtless have complete files of all back issues, my first copy is No. 32 and there are probably many others in the same situation as I am."

The Editor's first comment was "nothing doing," but "Betty," of the Gossip Page, says she thinks the readers are entitled to know something about the man to whom they write so many letters and that she purposes to write an article such as Mr. Robb suggests and to see that somehow or other, it gets into an early issue.

We'll see.

In the meantime, let's have a look at this month's mail and find out what the family is thinking about.

Not Fewer But More Announcements

That order of the Commission extending from fifteen to thirty minutes the requirement for announcing, has pretty nearly swamped the office with mail. It is to be hoped that the broadcasting stations will not take advantage of this ruling. A quarter of an hour is plenty long enough to broadcast without an announcement. Even if one is not a

DXer but likes to listen to any good program he picks up, it adds greatly to his pleasure to know what station he is receiving. One of the most fascinating things about radio is the ability to pick up stations clearly at great distance. Stations which do not announce frequently are localizing themselves and unnecessarily limiting their own value. It would seem to a business man in any other line as though the stations would



If you thought that picture of Kate Smith in January didn't do the girl credit, how about this one?

lean the other way and take every advantage to announce their call letters and city. They might just as well not be on the air at all so far as any value to themselves is concerned, as not to have people know the station they are listening to. We urge the Broadcasters' Association to give this matter the attention it deserves and in turn urge their members to take every possible opportunity to work their call or their city into their program announcements. This will not require a break in the program or announcement but merely a little originality and ingenuity. This is one way we would do it: "The next selection—a favorite with listeners of KKKX, etc."

Or: "KXXK now presents, etc." Practically every announcer now says "We." "We are glad—" "We will now." This "we" would be all right if those listening knew who "we" were. How much simpler instead of such an indefinite and meaningless term to use the station's call.

J. D. Gavitt, 915 Ohio St., Lawrence, Kansas, thinks readers of RADEX and DX Clubs ought to take this matter up with their representatives in Congress, but we doubt the effectiveness of this plan. What is really required is a little brain work on the part of announcers and station managers and Congress can't legislate brains into anyone.

When the "Reds" Broadcast

"Who logged XEW on November 8th, when the 'Reds' seized the station and broadcast a red-hot speech from that station?" quotes Herbert Berkowitz, 2940 Westchester Ave., New York City, from our January number and then answers, "I did, and will describe it as best I can. I have a store at the above address and have here a Crosley Showbox. Since October I have been receiving XEW pretty regularly almost any night after 8 p.m. On that particular Saturday night about 10 p.m. I tuned in that station. The reception was not so good but I kept it on for no particular reason. I was not listening closely and did not notice any interruption of the program, but all at once the reception became loud and clear as a local station and a loud voice came over and in such an impassioned way that I stopped what I was doing and went to the speaker to find out what it was all about.

"I understand Spanish fairly well but couldn't get the idea at first, not because I didn't understand it, but because I didn't think such talk was allowed. However I glued my ear to the speaker and got as much as I could understand. Some friends who were around also heard it and, although they could not understand any of it, could easily sense the general meaning by the forceful tone of the speaker. I translated for them as best I could and we listened until he had finished. Immediately after he stopped, there was silence for some time. This puzzled me also and I tuned out after waiting a few

minutes but I still continued to think and talk about it for I could not figure how such a speech could be allowed without international complications, because many prominent Americans as well as Mexicans and even Europeans were mentioned in quite an uncomplimentary way. It was not until the next Monday morning when I read the dispatch in the newspapers, that I knew what had happened. I never got such a kick out of my radio before."

The Story of TI-4-NRH

This puzzle is proposed by William McLain, 100 Maple Tree Lane, Wheeling, W. Va.: "Why does the experimental station in Shreveport, W9XX, use W9 prefix when Louisiana is in the W5 district? ("W9XX is going to be W5XA from now on," says Rudolph Kure, 301 Warner St., Cincinnati, Ohio.)

Mr. McLain writes interestingly regarding the Costa Rican station. "The call is TI-14-nrh," he says, "and not T14-NRH. At one time NR was the international intermediate of Costa Rica. The letter H was added to designate Heredia, the city in which NRH is located. New intermediates put into effect January 30, 1930, gave Costa Rica TI for the new prefix. Because NRH had gained so much fame, the owner, Amando Cespades, did not want to drop the old call letters. Costa Rica did not sign the treaty and therefore Cespades continued to use NRH until December 6, 1930, when the United States officially protested to the government of Costa Rica. In order to relieve the embarrassment of his government, Cespades tacked on the prefix of his amateur station TI-4-AC to NRH making it TI-4-NRH. He could not use all five letters, TINRH, because five letters in a call denotes an aircraft station. Amando Cespades ordinarily uses TI-4-NRH, but as he is used to using NRH, it slips his mind sometimes and he announces NRH instead of TI-4-NRH, just an oversight no doubt. (?) Mr. Rowland, who failed to get a verification from this station, should write them again with all particulars regarding the program he received and ask for verification. It would be wise to mention if

it was received on sort wave or on the b. c. band."

Cost Not Main Factor

"I want to take issue with the statement of Eugene Cole, of Houghton, Mich., in RADEX, that daylight reception is possible only with the most expensive sets," says Sgt. R. C. Broadrick, Box 81, Fort Monroe, Va. "Even though I am so situated that I have to use an indoor antennae, still WPG, WOR, WEAF, and others, 300 to 600 miles distant, can be tuned in at any hour they are on the air. The cost of a set is no criterion of its efficiency. I use a Majestic 20, cost \$74.50. I am not a radio man but merely an electrician—Sergeant U. S. Army—but after spending some \$3000 building various sets, I have come to the conclusion that there are any number of sets selling for less than one hundred dollars that are superior to any set I can build. The Majestic 20 is merely one of them."

"Do you think that a water pipe would be a better ground than a dealer-installed copper rod?" asks Chas. C. Hudlow, H. Park, Rt. 1, Chattanooga, Tenn. Grounds, like aeriels, vary greatly in different locations, and the "best" can be determined only by experiment. Our Technical Editor is of the opinion that no ground can possibly equal a good soldered connection to a cold water pipe and that substitutes are for those who do not have access to a city water system. Many have written us, on the other hand, that such a ground as that described by Ollie Ross in the June, 1931, RADEX (No. 50) has improved their reception over their previous water pipe ground. No broad prescription for grounds and aeriels can be written. This is a matter for experiment, the cost of which is small and the possibilities well worth the effort. Mr. Hudlow, a new reader, is puzzled by the term "DX."

(Continued on page 28)

And here we have that charming friend of the children, "The Lady Next Door," otherwise Miss Madge Tucker, director of juvenile programs for the NBC. Daily except Sunday on the WEAF chain at 5:00 p.m. EST, although at this writing this feature has been moved forward to 4:30.



BETTY'S RADIOGRAPHERIES

Little Stories of the Stars



A RTHUR TRACY, who goes under the pseudonym of "The Street singer," confesses that his greatest thrill came when broadcasting recently from a blimp soaring over the towers of New York in a program that was heard throughout the United States. After he landed Tracy admitted that when the project was first broached he fully intended to decline with thanks. Only a few weeks before he had put down his foot on a younger brother's attempt to enroll for an aviation course. Now, he not only is agreeable to his brother's choice, but is himself a confirmed aviation enthusiast.

Tracy came to radio after years of musical comedy, motion picture house and night club efforts. Starting on early afternoon periods he soon was drawing such a volume of fan mail that officials of Columbia moved him to the coveted 11:00 p.m. period, where he was heard thrice weekly, until a few weeks ago when he was signed to appear on the "Pillsbury Pageant."

Arthur was born in Philadelphia. Both of his parents were singers. When he was about ten years of age Arthur became a "street singer" in fact. He used to carol under neighborhood windows and gather the falling coins, then rush to a music store and buy copies of songs of the day. Later he got a chance to sing in a church choir.

When fifteen Arthur started a course of self training. He bought every record of Caruso and carefully rehearsed the phrasing, methods of shadings and other tricks that Caruso was famed for, making it a point to keep playing each record until he had it memorized down to the last note. When eighteen he went to a local singing teacher who kept constantly calling for more volume.

After finishing high school he went to the University of Pennsylvania to study architecture and was a member of the glee club and college dramatic league. But instead of an architect Arthur was destined to be a singer and he finally enrolled in the Curtis Institute of Music. Striking out on his own he started giving local concerts and was spotted by scouts for the Shuberts. They signed him for a leading role in a road company of "Blossom Time," and later transferred him to one of the numerous companies of "The Student Prince." Five years in musical comedy, several vaudeville tours, a period as master of ceremonies in a motion picture theatre, and then a friend brought him to Columbia for an audition. Tracy accompanies himself on the accordeon. Tune in the "Pillsbury Pageant" over CBS Fridays, from 9:00 to 9:30 p.m. EST.

* * *

Vaughn de Leath has the distinction of being literally the First Lady of Radio Land. She was the first woman to send radio programs over the air. That was in 1920 when she made her debut under the direction of Dr. Lee DeForest over an experimental transmitter located in an improvised studio in the World Tower in New York. She sang and told stories to the unsympathetic ear of an old 1904 model phonograph horn which con-

veyed her programs to an eager public of a few amateur experimenters in radio transmission. Through this crude medium her voice became known to hundreds of crystal-set owners throughout North America, and when high-power transmission was made possible, Miss de Leath's was the first woman's voice to be heard by radio in Europe.



In addition to being the original Radio Girl, Vaughn originated modulated singing into the microphone. Explaining how the necessity brought about this type of singing, Miss de Leath says that back in the early days when radio apparatus was not as perfect as it is today, loud high notes often proved expensive. Many a singer, becoming too vocally vigorous, would break a delicate tube with a high note. These tubes cost \$110 each, so Vaughn learned to keep her voice constantly modulated. Good thing our friend, Walter Winchell, wasn't broadcasting in those days, with his "Okay, London!" Since that time she has been heard regularly over the air, and you can now hear Miss de Leath over the Columbia twice a week, every Monday at 6:15 p.m. EST and every Friday at 6:30 p.m. EST, in a program of popular songs.

* * *

Alexander Gray, romantic baritone of the musical comedy stage and the talking screen, can be heard nightly, except Sunday, over the CBS at 10:30 p.m. EST, accompanied by Nat Shilkret's

36-piece orchestra, on the Chesterfield programs, known as "Music That Satisfies." Although not a newcomer to radio, Gray rarely has faced Eastern microphones. While in Hollywood, however, the young baritone was engaged to play the leads in complete radio performances of "Blossom Time" and "Chocolate Soldier." Each of these performances lasted more than two hours.

Gray attained stage and screen success after a colorful and varied career. His early schooling was obtained in Baltimore, with summer interludes of work on a dairy farm and in tobacco fields in Pennsylvania. He attended high school in Philadelphia and his vacations were spent in a machine shop of an electrical supply company. As a student at Penn State, Alex worked his way through college by taking care of furnaces, washing dishes and selling aluminum utensils. He found time, nevertheless, to become prominent in the glee club, quartet and dramatic society.

Graduating as an industrial engineer, Gray worked his way to Europe as a deck hand on a liner and returned as a



coal passer in the stoke-hole of a yacht. Years later came an audition with Florenz Ziegfeld and a part in his *Midnight Frolic*. He since has had featured roles in "The Follies," "Sally," "The Desert Song," and others.

Deserting New York and "the road" for Hollywood, Alex played opposite

Marilyn Miller in her first film, "Sally," and was featured in the musical comedy films "No, No, Nanette," "Spring Is Here," "Song of the Flame" and "Viennese Nights." When musical pictures lost their vogue Gray returned to New York and after a vaudeville tour, was chosen as the one out of many to star on the Chesterfield programs.



Irene Beasley, the "long, tall gal from Dixie," was born January 28, 1904, in Whitehaven, Tenn., a village built around a post office, grocery store, and a cotton gin. Her father and mother were both non-professional singers and her grandmother was an expert pianist. From her grandmother, Irene received her first piano lessons. When she was six, her family moved to Amarillo, Texas, where she started her schooling. After some time at Sweet Briar in Virginia, she went to Mississippi to teach school. She was superintendent, principal, and teacher of seven grades, with eleven pupils in all. From then on things began to happen in a chain of accidents.

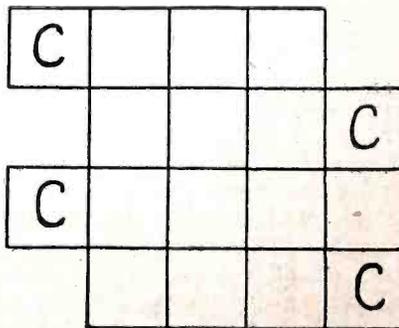
While she was still teaching, Miss Beasley wrote a song, "If I Could Just Stop Dreaming," which she had published herself. It was bought, and in order to exploit it, she sang it many times over a small radio station. That led to work in Chicago for larger stations and for motion picture house presenta-

tions. Subsequently, Irene returned to Memphis and while in a music store chanced to meet a representative of the Victor Recording Company. This meeting brought her to New York in order to make a test record, and the test resulted in a Victor contract.

The next step occurred in a New York music publisher's office, when Irene met Dale Wimbrow. He introduced her to Columbia and an audition, and she has been heard over CBS since April, 1929. You can hear Irene's pleasing voice over CBS Mondays from 9:30 to 9:45 p.m. EST, with the Round Towners program, and on Thursdays from 9:15-9:30 p.m., EST, on the Mennen program.

* * *

Here's the "All-American Radio Team" just compiled from answers to a questionnaire sent out by the Radio Editor of a New York paper: Dance orchestra, Guy Lombardo's; Symphony orchestra, Philadelphia Symphony; Male singer of popular songs, Morton Downey; Female singer of popular songs, Kate Smith; Male singer of semi-classical songs, James Melton; Female singer of semi-classical songs, Jessica Dragonette; Feminine harmony team, Boswell Sisters; Male harmony team, Revelers; Dialogue act, Amos 'n' Andy; Master of ceremonies, Ben Bernie; Sports announcer, Ted Husing; Studio announcer, Milton Cross; Commentator, Lowell Thomas; Organist, Jesse Crawford; Instrumental soloist, Toscha Seidel; All-dramatic program, Sherlock Holmes; Musical program, Rapee orchestra with Virginia Rea and Frank Munn; Comedy act, The Colonel and Budd; Children's program, Lady Next Door; Advice to Women in the Home, Ida Bailey Allen. What do *you* think about it?



With the LUCUBRATORS

Better Look That One Up

IN spite of the warm weather, distant reception is reported from many districts as being unusually good. Better aerials, better grounds and better sets are probably responsible in a large measure. Whatever the cause, logs are growing rapidly. Some readers report as many as six and eight new ones tuned in in a single night in spite of the fact that logs were already well filled. Many attribute these new catches to information in the column "Their Time On the Air" and to hints dropped in this department by other readers. There's nothing like fishing when you know the fish are there and hungry for bait.

B. C. Stations on S. W. Sets

"Although I frequently read in RADEX of short-wave catches on broadcast receivers, I have yet to see a report of b. c. reception on a short-wave set," says T. Colegrove, Frankfort, Mich. "So here is one. I use a National d. c. SW-3 and I have heard 408 stations on the broadcast band in a little over a year." Mr. Colegrove favors a long aerial. He uses one with two wires, 225 feet long and 150 feet high, located on a high bluff overlooking Lake Michigan. Instead of a ground, he uses an eighty-foot counterpoise. In spite of the length of his aerial he can tune in CMK, CKAC, XER and WSB—stations in four countries but five kilocycles apart. Mr. Colegrove gives us a few DX tips. "CMK comes in fine about 9 or 10 o'clock on 725; 4QG, Brisbane on 770 and 2BL, Sidney, 855, are frequently heard after 5 a.m. EST., CMCD, 925, comes in fairly well even when the U. S. stations are on the air on both sides of it, as does CMCY, 1345; XEO comes in fine on exactly 935 kcs. every night from 9 to midnight, in spite of the fact that he is listen on 940 and his verification says 940. XEX comes in frequently about the same time on 1204 and he became quite indignant when I wrote him that he was on 1204; KGMB,

Honolulu, signs off almost every morning at 4:30. a. m. K6XO, an experimental station in Kahuka, Hawaii, 7520 kcs., can be heard frequently about 5 or 6 a.m. testing with Point Reyes, Calif. He sure has a terrible sock."

Troubles in Socket Aerial

A warning is broadcast to users of light-socket antennas by R. F. Miller, 2705 Pennsylvania, Dallas, Texas, to beware of a short circuit. "During the summer my Atwater Kent 75 went haywire, cutting distance and volume in half. Having the set tested twice failed to disclose the trouble. I wrote to RADEX for help and I took the letter and the set to the shop and then they were not long in locating the trouble. Due to a short circuit in the light socket antenna, I had to replace the volume control and put in a new set of coils due to one being burned out. That was the end of my trouble." Mr. Miller wonders if anyone can help him with the following: "Using a Flewellyn De Luxe S. W. adapter on October 3rd, I heard someone talking about National Tours of Australia. The most I could catch of the rest of the program sounded like the calls of all kinds of birds. I got to hear their call letters but once and not very clear then. They sounded like 2KY, but as this station is listed with only 250 watts, it doesn't seem possible I heard them."

Jumping Around in Canada

"On December 30th, I received CHNS on a wave length of 825 or about that, as it came in between WHAS and CMGA. I clearly heard the announcement as 'Station CHNS, Halifax, Nova Scotia,'" writes Wm. F. Lesser, 180 Harman St., Brooklyn, N. Y.

We receive many letters from readers who hear the Canadian stations on other than their assigned frequencies and who therefore assume that the listing in RADEX must be wrong. Regarding this C. P. Edwards, Director of Radio Service, Dominion of Canada, writes: "Many such changes are only temporary in character. Stations are

occasionally permitted to try out a new frequency for a test period of say one month, with a view to the permanent adoption of such frequency if satisfactory. It is not our policy to show such tests in official lists unless and until same are made permanent. However, we are making careful note of your request and will arrange to furnish you each month with either a corrected list or a statement of amendments to date." We are receiving excellent cooperation from the Canadian authorities (who, by the way, use ten copies of RADEX monthly in their own official work) and we believe our readers may safely assume that the frequencies shown in this magazine are the correct ones, bearing in mind the temporary experimental use of other frequencies to which Mr. Edwards refers.

Something on Every Wave

"Listened to a station early in December on 1350 kcs. which announced as KRDO, Meridian, Idaho," reports Boyd Erlbeck, 110 N. Cordier St., Lodi, Calif. "Could this by any chance be KIDO having moved from Boise to Meridian? I am sure about the call being KRDO." How about this, Idaho readers? Mr. Erlbeck wants the time on the air for CKCD or CKFC. He recently tried out the new GM Super Converter on his Majestic 130A TRF and reports it works wonderfully well—at least 25% more power and extremely selective. "By an actual test, I tuned in on every single channel from 540 to 1500 without a miss and in each case, no matter what the distance or power, I got a station with absolutely no interference from either side. This included tuning in on WSB, five kcs. from XER and separating KPO, WMAQ, CJRW and WEA. And power—WJZ and WABC filled the whole house."

"While DXing this morning (Sunday, January 3rd)," advises Wm. R. Anderson, 852 Manning Ave., Toronto, Ont., "I heard CFRB, Toronto, putting on a test program. They were on for over an hour but I did not hear them give their call. For music, they rebroadcast programs picked up on a radio receiver from XEW, XER, WABC, KMOX, etc. So if any listeners heard stations on 690

kcs. instead of their regular frequencies, they were listening to CFRB and not the one announcing." Ha! Perhaps this is one answer to those letters we get from readers who hear stations on other than their own frequencies and jump to the conclusion that RADEX must be in error.

The First and the Last

Chas. E. Summers, 28 Gallatin Ave., Buffalo, N. Y., still has the old crystal set on which he heard KDKA's first real broadcast, he being a Pittsburger at the time. Each one in the family took turns listening at the headphones. Now Mr. Summers has 485 stations on his log with verifications from 447. He finally heard from WCOC after four months. Mr. Summers says WCBD is on the air each Wednesday from midnight to 1:00 a.m. CST with a religious program. He heard the call WPFB, Hattiesburg, Miss., on December 26th. WRBJ has changed its call.

C. R. Brown, Jr., Box 112, Tazewell, Va., reports re his Scott All-Wave. "Here on the eastern seaboard, I not only can get without interference, KNX and KFI at 9:00 p.m., EST., both with powerful eastern stations on either side of them and only 10 kcs. distant, but on the short waves I listen to VK2ME, Sidney, Australia, every Sunday morning between 6:00 and 7:00 EST, VK3ME, Melbourne, Australia, 6:00-6:30 a.m., EST, Wednesday and Saturday mornings, and numerous South American and European stations."

No. 659 is First Foreigner

Earl R. Roberts, 712 South 9th St., Cambridge, Ohio, is elated over bringing in his first real foreigner on a log of 658. It was RUS, San Salvador. Mr. Roberts reports a new station at Nassau, Bahama Islands, VPM or VPN on 340 and 610 kcs. He recently brought in seven new stations in one night, most of them with low power, with a Mexican on 1085 or 1090 which he cannot identify. It came in from 1:15 a.m. to 2:00 EST Monday, December 21st. XEL was formerly listed at 1090 but was recently changed to 1000.

Allen W. Mummey, Rt. 2, Walnutport, Pa., also picked up RUS, San

Salvador on Sunday, December 20th at 4:00 a.m. EST.

Clifford Lee, 1221 Kenton St., Springfield, Ohio, heard both WLS and WENR of 870, broadcasting on about 1550 one evening late in November. WLS had the Maxwell House program and WENR had a different orchestra. He heard both announcements. Another mystery. Clifford reports that WOE at Palm Beach, Fla., and ZTN (VPM?), Nassau, Bahama Island, both on 610, broadcast every morning from 2:00 to 4:00 EST. Who is WOE?

Those Police Stations

"On my Model 40, 25-cycle Atwater Kent, I can hear short-wave police stations from 1662 to 2440 kcs., but cannot bring in the one here in Buffalo. During the day I cannot get one on short wave, but when evening comes, they crowd in three or four at once. All of them are heard at 3 on the dial." This report comes from Valentine Sadowski, 188 Miller Ave., Buffalo, N. Y. Valentine also reports that WMAK is off the air and he hopes forever.

Fred J. Ephlin, Jr., 1234½ Cahueuga Blvd., Hollywood, Calif., can count the towers of five broadcasting stations from his windows—all within half a mile. There, DXers, is some handicap and illustrates why some logs of fifty stations may be better than others with 500. Notwithstanding, Fred has 265 on his list.

Undeliverable in Mexico

Willard K. Jennings, 45 Thorn St., Rahway, N. J., thinks there must be some mistake about mail for XED being returned as he received verification promptly. Nevertheless, several other readers send us their envelopes showing the same "Fraudulent" mark as our own.

Some readers assume because no symbol is shown that certain stations do not verify reception. That is not the case. A missing symbol merely indicates that we have not been able to get a definite statement regarding their policy from that station.

C. L. Arner, Orangeville, Ohio, is proud of having brought in CKOV, Kelowna, B. C., a hundred-watter half a continent away.

Some Pending Changes

The Commission records show that WFLA and WSUN are being reduced from 1000 watts to 250, but these stations advise us that, while this is correct, the Commission has given them an experimental license permitting continuation on the old power and that a construction permit has been granted for a 5 k.w. W. E. transmitter at Bayview, which is under construction and nearly completed. We are therefore continuing this station at 1000 watts for the present.

"If your first information about a change in WPCH from 810 to 570, came from someone around New York City,



Lady Wilkins, talented wife of Sir Hubert, recently appeared in "The Bath Club," a CBS feature. Before her marriage Lady Wilkins was well known on the stage as Suzanne Bennett.

I can easily understand their error," says H. E. Apgar, Kenvil, N. J. "I have heard WPCH on my own radio back of WMCA on 570 although WPCH was broadcasting on its own frequency of 810 at the same time. I know no explanation and I can't figure it as a harmonic. This phenomenon can be heard practically any day not just occasionally." Here is a problem; has WPCH two personalities, a sort of Jekyll-Hyde?

WLAP, Louisville, which has been on 1010 for some time, is back on 1200 although the Commission has given it "permission to operate after midnights on 1010 kcs. with 250 watts, to make

antenna tests and experiments to determine that with such radiating device, operation may be had without interference with other stations on same channel."

Richard Bogert, 1416 Linden St., Allentown, Pa., reports hearing the following stations on other than their listed frequencies: HIX, 669, on 626; CHNS, 925, on 815; CHGS, 1120, on 1135; CKCL, 580, on 585.

"John McGill will be interested to know that some mornings VAS may be picked up at 3:00 a.m. EST," proffers James A. Morse, 14525 Coit Road, Cleveland, Ohio. "They give a weather report and sign off at once. In spite of their power, they come in quite weakly." (The new Canadian official list reduces the power of VAS from 10,000 to 2,000. This is more like it.—*Ed.*) Mr. Morse would like to hear from some DXer on the West Coast.

News From the DX Clubs

Roland Trenchard, Chairman of the Courtesy Programs Committee of the Newark News Radio Club, advises us that KGIW, 1420, Trinidad, Colo., will be on the air with an anniversary program Monday, February 22nd, from 11:00 p.m. until 3:00 a.m. EST. He also gives us the following tips: KFBI, 1050, Milford, Kans., conduct a splendid early morning program the 15th of each month, known as the International Frolic. Try them the morning of February 15th. The Wednesday issue of the *Newark News*, by the way, contains the committee's report of advance news and DX programs. It is sent free to out-of-town members of the club.

From Karl J. Halpern, 1435 Coney Island Ave., Brooklyn, N. Y., chairman of the Courtesy Programs Committee of the World Radio Reception Club, comes the information that that Club will hold a gala DX program on March 19th and that the following stations have agreed to take part: WPCH, 2:30 to 4:30 a.m. EST; WNYC, 3:30 to 4:00 a.m. EST; WLBW and WCAC, 2:00 to 2:30 a.m. EST. Others will be added later.

CKOV, Kelowna, B. C., announce that they put on a DX program every Thursday and Saturday night from

midnight to 2:00 a.m. PST. Also XEH puts on a DX for the U. S. from midnight to 1:00 a.m. CST every Tuesday night. "Have any others heard XEV, Puebla, on about 785, with great volume on a long, late DX for the U. S.?" asks P. J. Hauss, 222 S. Butler Ave., Indianapolis, Ind.

From a letter from L. J. Foster, President, Buffalo Evening News DX Club, we quote the following: "Our Club broadcasts every Thursday at midnight over station WBEN. Every week we give one paid-up membership to the listener from the farthest point who writes in and tells some part of the program. We want suggestions and criticisms regarding these programs."

More DX Tips

William D. Slade, 84 Hillside Ave., Freeport, N. Y., reports a rumor that the owners of WMCA-WPCH may exchange the latter station for WNYC so that WMCA will have full time on 570 kcs. He reports WKBC, Birmingham, on the air daily from 5:00 a.m. to 9:00 p.m. CST and WBCM, Bay City, from 8:00 a.m. to midnight.

A DX tip or two comes to us from Arthur Collins, 68 Amber St., Buffalo, N. Y. "VOWR, St. Johns, N. F., is only on the air on Sundays, 11:00 a.m. and 6:30 p.m. and Tuesdays and Thursdays at 8:00 p.m. EST. CMCF, Havana, Cuba, is on the air only Mondays and Fridays at 9:00 to 11:00 p.m. EST." Mr. Collins reports that WMAK, Buffalo, is no longer on the air.

Another Outlaw Convicted

Lester R. Reinmund, 1120 South 76th St., West Allis, Wis., has a verification from KGMB, Honolulu, in which they state they are on the air daily from 9:00 a.m. to 3:00 p.m. and from 5:00 to 11:00 p.m. Honolulu time, which is five and one-half hours after New York time.

Martin Howard, 1632 Calvert St., Baltimore, Md., reports that another outlaw, KTST, Seymour, Texas, has been convicted of operating without a license. For Mr. Duranceau, Peterboro, Ont., Martin says that WBIS is on daily from 7:45 to 9:00 a.m. and 1:00 to 2:00 p.m. EST.

From Edgar McCarthy, 608 Lafayette

Ave., Hawthorne, N. J., a member of the club, comes the information that DX programs of the Radio Listeners Club of Central New England may be heard every SUNDAY morning, 1:00 to 1:30, over WTAG.

Notes and Targets

E. B. Davis, 11 N. Second St., Easton, Pa., reports that the new WEEU, Reading, went on the air on New Year's Day and that CMCD, Havana, 925, has a DX program every Saturday night from 9:00 to 2:00 a.m. Sunday, EST.

"Anyone needing North Dakota, may tune in KFYZ any day from 7:00 a.m. 11:00 p.m. CST," says A. N. Hirth, Fairview, N. J.

KGFK, Moorhead, Minn., has a DX program every other Friday from 2:00 to 4:00 a.m. EST; nest on February 5th, says Donald G. Powers, 134 Kisingbury St., Rochester, N. Y.

WFEA, Manchester, N. H., is now operating says William D. Slade, 84 Hillside Ave., Freeport, N. Y.

The policy of station WGBS has been changed by its new management in regard to verification of reception. "We

should appreciate it if you would advise your readers that we are glad to verify reception of our listeners and that we send Ekko stamps upon receipt of 10c," writes the American Radio News Corporation, 235 East 45th St., New York City.

"Wish to say that all requests for Ekko stamps are promptly complied with when accompanied by ten cents," reports station KMA, Shenandoah, Iowa. "Of course, we receive a number of requests for verification by people who do not send money."

WCOC advises us that it is their practice to acknowledge communications from their listeners, but that on some recent programs they got behind on letters but have now caught up.

Identifications Wanted

"Can anyone identify station KRA, heard on November 8th, about 5:00 a.m. EST, on 50.3 meters; think it is somewhere in the Philippines, but not sure." This inquiry comes from Roger Causse, SS. Thermo, Havana, Cuba. KRA is listed as a Boeing Air Transit station in Boise, Idaho, but the station Mr. Causse heard was playing music for several

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- 6-Volt Charge Tester D. C. No. 23
- 0-10 Amperes D. C. No. 338
- 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

hours. Mr. Causse's home is in Lester, Pa., P. O. Box 6688. Mr. Causse takes exception to XER's boast of being "the most powerful commercial station in the world," pointing out that a station in Warsaw, Poland, has 150 k. s. and that three others in Russia have 100 k. w. Says Mr. Causse: "I think Dr. Brinkley is doing more harm than good by putting up such a powerful station with such unenjoyable programs. He is just spoiling good programs for American and Canadian listeners and think he should be permanently tuned out. The stuff he puts on the air is 75 per cent cheap advertisements; surely he doesn't expect people to listen to that and enjoy it."

"I would greatly appreciate it if you, or any of your many readers could tell me the location of an unlisted station with the call letters KDX," writes K. G. Seabrook, 346 Piccadilly, at London, Ont. "I have plainly heard the following announcement at 1:00 p.m. EST on the 27th of December: 'This is KDX, experimental station testing, operating on a wave of 1200 kcs. with 7½ watts power.' Several phonograph records were played with station announcements between. At the sign-off came 'This is KDX calling CEX.'" The call letters are assigned to Portable Radio No. 39, in the Third Zone operated by the Geophysical Research Corp. As the Third Zone

centers in Baltimore, it is hardly likely that this was the station received by Mr. Seabrook. Can anyone identify it?

Who Heard These?

"SOS," signals Donald Murphy, 506 E. 43rd Ave., Vancouver, B. C. "On December 20th, between 6:15 and 6:20 p.m. PST, I heard a station broadcasting on 690. I heard 'Piccalo Pete', 'Sings Another Chorus' and 'Sing, You Sinners, Sing'. Between numbers Sheaffer pen, were being advertised. They were just about to announce when a Calgary station came on and drowned them out. The station was very weak, not being a quarter as loud as WLW which was coming in at the time."

"Does anyone know of a very small station in the U. S. on 720 kcs.?" asks T. Colegrove, Frankfort, Mich. "I heard him the morning of December 30th between KMPC and CKMO so I am certain about his frequency. I think he is in Minnesota as I understood him to say he was playing a selection for someone in Minneapolis. At 5:12 a.m. he said, 'Goodnight, everybody,' and signed off."

"Am extremely anxious to identify a station I heard on 1370 kcs. December 15th at 9:15 p.m. EST," writes H. R. Garrett, 171 Hillside Ave., E. Toronto, Ont. "They were broadcasting a dedication program to the new management of the station. One selection played was

INSURE YOUR RADIO ENJOYMENT

SEND THIS BLANK TODAY

The Radex Press,
5005 Euclid Avenue,
Cleveland, Ohio.

Enclosed find \$..... for which send me postpaid my choice of your offers as checked below:

- | | |
|---|--------|
| <input type="checkbox"/> One radio map of North America | \$.25 |
| <input type="checkbox"/> One copy of the next RADEX | .25 |
| <input type="checkbox"/> Trial subscription, next five issues of RADEX | 1.00 |
| <input type="checkbox"/> One year's subscription to RADEX, 10 issues, and Radio Map free | 1.75 |
| <input type="checkbox"/> Two subscriptions to RADEX with one leatherette cover and Radio Map, both free | 3.50 |
| <input type="checkbox"/> One two-year subscription with leatherette cover and Radio map, both free | 3.50 |
| <input type="checkbox"/> Leatherette Cover | .50 |

Write Name Plainly

Street and Number

City and State

'Blue Kentucky Moon.'" Mr. Garrett says CMCD, on 925, broadcasts a DX program every Saturday night from midnight to 3:00 a.m.

"I would like to identify a station on 1370 kcs. I picked up Sunday, December 13th," writes Stanley Savage, Route 4, Spokane, Wash. "I think it was an eastern station. I heard pipe organ music from 1:00 to 1:30 a.m. PST." Mr. Savage has been trying for two years to tune in an Alaska station.

"On the morning of December 6th, about 4:00 a.m. EST, I heard a station on 605 kcs. broadcasting a test program. He said he was calling someone in St. Vincent Hospital, New York City. He was not in the U. S. for he said he wanted reports from listeners in this country. Can anyone help me on this?" Ray La Rocque, 135 Highland St., Worcester, Mass.

"On the morning of January 1st, I heard a station on 1370 kcs. at 5:45, who in the middle of each selection would announce the telephone number Logan 5626. Ask your readers if they can help me with this one," is the request of Bernard Murray, Jr., 1049 West 9th St., Erie, Pa.

More Calls for Help

John M. Lennon, 122 Linden St., Camden, N. J., is very anxious to log HHK and wants some DX club to arrange a special advising this magazine in time for publication in advance. WCOC verified for him but only after six weeks.

Regarding HHK Derek Wharton 22 Elmwood Ave., Rye, N. Y., says they are on each Friday from 8:00 to 9:00 p.m. EST., Saturday, 6:45 to 7:15 a.m. and Wednesday 8:00 to 9:00 p.m.

"Both my letters to CKOC, Hamilton, Ont., asking for verification, were refused at Hamilton and returned to me," writes Rexford Newcomb, Jr., 605 Nevada St., Urbana, Ill. The owner and address appearing in the Index by Frequencies is that given by the Dominion Government. What is the correct mail address for CKOC?

"At midnight, PST, I received a program of dance music on 690 kcs., coming in with much volume," reports Charles C. Norton, 2545 Polk St., San Francisco, Calif. "The announcer said the program

was coming from the 'Buffalo Cafe,' but the city was not given." Who knows this one?

"Who is VPM?" asks John McGill, Jr., Olive Hill, Ky., "Have heard them between 1300 and 1310 kcs. three times during the past month. Once they were calling Palm Beach and once New Orleans."

R. E. Moran, 31 Rochester St., Ottawa, Ont., reports receipt of XET on 750 and they said verifications could be had by addressing XET, at Dallas, Texas. How come?



Jack Pettis conducts the orchestra on the Bright Spot program each Sunday afternoon at 2:15 EST over the NBC-WEAF network. Jack formerly played the sax in Ben Bernie's orchestra

Dolphus Whitten, Jr., Gurdon, Ark., reports a new air station, KCAA, Tulsa, and wants to know frequency and power.

C. W. Thomas, McAlester, Okla., wants to know if WJSV is ever on the air when WLAC and KSTP are silent.

Donald Brickey, Rr. 1, Bloomington, Ill., heard a Cuban station on 1315 on December 27th at 2:45 a.m. with 50 watts. He caught the above information but was unable to identify the call letters and asks the help of our readers.

Three questions from Geo. B. Holland, Jr., 1340 Baker Ave., Schenectady, N. Y.,

Who is WMLO or WNLO, heard on 1500? Is WEEU on the air yet? When are HRB, HIX, VOWR on the air?

Answers to Inquiries

"For those who wanted information regarding stations VE9CB and VE9CY," writes Victor Filion, 649 Ste. Angele St., Three Rivers, Que., "I may say that these are Canadian experimental stations, the former owned by Canadian National Carbon Co., Hillcrest Park, Toronto, and the latter by Canadian National Railways, Bank St., Ottawa, Ont."

In answer to the inquiry in the December issue, an unsigned card conveys the information that the "Egyptian Ballroom" is located in the Shrine Mosque, Atlanta, Ga. The broadcast is from WGST.

"Tell Virgil Engleman he heard XEN as they sign off with the sound of a train," advises Jesse L. Lansman, 717 S. Shelby St., Louisville, Ky.

Edwin Sommerer, Jr., 925 E. Washington, South Bend, Ind., wants to hear from other young DXers. He heard station KUKU but can't find it in his RADEX. (That's the "Phoney" station used in a burlesque skit by the NBC.) Edwin wants a recipe for bringing in more Canadians. Watch RADEX for their time on the air and use lots of patience.

Ernest Ball, 39 Delaware Ave., Ottawa, Ont., wants to learn of any DX club in that city. In the six months after he discovered RADEX, his log of 100 grew to 245. He counts 10-BP, Wingham, Ont., as his best catch.

Wanted, Clubs and Correspondents

James B. Crusan, 424 Smithfield St., Mount Pleasant, Pa., wants to know of a DX club near him which he could join. He also wants to know when KZRM is on the air.

Richard G. Hill, 1219 E. 86th St., Cleveland, Ohio, would like to hear from owners of a Lyric and would also like to join a DX club that could provide him with notice of coming DX specials.

Donald Murphy, 506 E. 43rd Ave., Vancouver, B. C., would like to correspond with other DXers, both in the U. S. and Canada.

I. J. Blakeman, R. D. 6, Toledo, Ohio, would like to exchange hints with other DXers, particularly Zenith owners.

Robert D. Lougheed, Ste. 2, 510 19th Ave., West, Calgary, Alta., wants to get into touch with a DX club in his vicinity.

Russell Arnot is another DXer who would like to join a club in the Northwest. His address is 715 Fifth St., Bismarck, N. D.

William Bowers, 1417 Turner St., Allentown, Pa., with 561 stations to the credit of a two-tube set, would like to correspond with other DXers.

Charles Maylone, Box 375, Placerville, Calif., wants to join a DX club and to correspond with others in the central and eastern states.

Grand Rapids, Mich., readers interested in forming a DX club are requested to get into touch with Al Hatfield, 334 Bond Ave., in that city.

DXers interested in forming a club in Minnesota should write to Donald Babb, 908 North Owen St., Stillwater, Minn.

L. A. Thomas, 1324 E. Pierce St., Phoenix, Ariz., promises to answer all communications from other DXers wherever they may be.

Henry Kurtz, III, South Kent School, South Kent, Conn., wants to hear from other 16-year-old DXers.

M. C. Harlow, 212 Bird Lane, Clarksburg, W. Va., would like to join a DX club in his vicinity.

Robert C. House, 194 Capen Blvd., Buffalo, N. Y., wants to correspond with other DXers.

Elmer C. Roth, 1294 W. Grand Blvd., Detroit, Mich., wants to correspond.

Correspondents wanted. Roy Sell, Watertown, Wis.

Ancient History

Answers to the questions by Mr. Eugene Martin are given below:

1. KTHS. 2. WMAQ. 3. WJAZ. 4. WFAA-KTHS. 5. (a) WOAW, (b) KNRC, (c) WCAR, (e) WTFF, (f) KFVE, (g) KFOA, (h) WGHP, (i) CYJ, (j) WAHG. 6. WCFL. 7. WCBF. 8. WOAI. 9. KSD. 10. WJY. 11. (a) WGN, (b) WMAQ, (c) WJR, (d) WLAC, (e) KMBC, 12. WCCO. 13. 9XF. 14. WEAR-WJAX. 15. WHT.

This Month's Changes

Radio Troubles

(Continued from page 10)

Power

600	CNRO	Ottawa, Ont., 500 to 600.
630	CHCS	Hamilton, Ont., 1000 to 500.
	CKOC	Hamilton, Ont., 1000 to 500.
	CKTB	St. Catherine, Ont., 1000 to 500.
645	CKCR	Waterloo, Ont., 50 to 100.
685	VAS	Glace Bay, N. S., 10000 to 2000.
690	CFRB	Toronto, Ont., 5000 to 4000.
	CNRX	Toronto, Ont., 5000 to 4000.
730	CHLS	Vancouver, B. C., 50 to 100.
	CKCD	Vancouver, B. C., 50 to 100.
750	WJR	Detroit, Mich., 5000 to 10000.
810	XFC	Aguascalientes, Mexico, 350 to 250.
880	CKPC	Preston, Ont., 50 to 100.
890	WJAR	Providence, R. I., 250 to 500.
915	CFLC	Prescott, Ont., 50 to 100.
1000	XEL	Saltillo, Mexico, 10 to 25.
1210	CFCO	Chatham, Ont., 100 to 250.
	CFNB	Fredericton, N. B., 100 to 50.
1330	WSAI	Cincinnati, Ohio, 1000 to 500.
1345	CMCY	Havana, Cuba, 100 to 50.
1370	WFPB	Hattiesburg, Miss., 10 to 100.

Owners

630	WOS	Jefferson City, Mo., to John D. Heiny
645	CKCR	Waterloo, Ont., to Mitchell & Liddle.
730	CKWX	Vancouver, B. C., to Western Broadcasting Co., Ltd.
880	CKPC	Preston, Ont., to Cyrus Dolph.
890	KARK	Little Rock, Ark., to Arkansas Radio & Equipment Co.
930	WIBG	Elkins Park, Pa., to WIBG, Inc.
960	CHCK	Charlottetown, P. E. I., to W. E. Burke and J. E. Gesner.
	CKCK	Regina, Sask., to Leader-Post, Ltd.
980	CFCN	Calgary, Alta., to W. W. Grant and H. G. Love.
1200	KMLB	Monroe, La., to Liner's Broadcasting Station, Inc.
1220	WCAE	Pittsburgh, Pa., to Pittsburgh Sun-Telegraph.
1270	WASH	Grand Rapids, Mich., to Kunsky-Trendle Broadcasting Corp.
1310	KGEZ	Kalispeil, Mont., to Donald C. Treloar.
1370	WBTM	Danville, Va., to Piedmont Bdcstg. Corp.
1400	KLO	Ogden, Utah, to Interstate Bdcstg Corp.
1420	KGKX	Sand Point, Idaho, to W. W. Von Cannon, Trustee.
1500	WWSW	Pittsburgh, Pa., to Walker & Downing Radio Corp.

Frequencies

580	CFCL	Toronto, Ont., from 960.
810	XFC	Aguascalientes, Mexico, from 805.
815	CHNS	Halifax, N. S., from 910.
	CNRH	Halifax, N. S., from 910.
1200	WLAP	Louisville, Ky., from 1010.

Calls

1180	WINS	New York City, from WGBS.
1200	KERN	Bakersfield, Calif., from KSMR.
1370	WDAS	Philadelphia, Pa., from WELK.
	WFPB	Hattiesburg, Miss., from WRBJ.

Deleted

1040	WMAK	Buffalo, N. Y.
1200	WEPS	Worcester, Mass.
1420	KFQU	Holy City, Calif.
1430	WGBC	Memphis, Tenn.

Permit to Change Frequency

630	CHCS	Hamilton, Ont., to 1010.
	CKOC	Hamilton, Ont., to 1010.
	CKTB	St. Catherine, Ont., to 1010.
1360	WJKS	Gary, Ind., to 560.
1500	WDIX	Tupelo, Miss., to 1420.

Permit to Move

1500	WDIX	Tupelo, Miss., to Texarkana, Ark.
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New Stations

630	Windsor, Ont.
1200	10BQ	Brantford, Ont.

Chains

1410	WODX	Mobile, Ala., new CBS.
1450	WSFA	Montgomery, Ala., new CBS.
1440	WMBD	Peoria, Ill., new CBS.

condenser, and a new leak of about 3 megohms may be necessary. Small devices known as howl arresters, which slip down over the tubes, often prevent squealing. They may be purchased in any radio supply store.

Address the Pierce Airo, Inc., 510 6th Avenue, New York City, N. Y., for a circuit diagram of your receiver.

Significance of Fixed Condenser

What is the purpose of the condenser between the positive terminal for the speaker and the ground of my Grebe Synchronphase five-tube receiver? It seems to keep my set from working properly. Can I remove it without causing damage to the set?

The condenser is attached between the positive speaker output lead and the negative C-battery terminal, which also is the ground. Its purpose is to by-pass the high frequency voltage that comes from the output amplifier tube into the ground. It is simply one way of by-passing the entire A, B and C battery assembly, so as to give quieter and smoother tones in the speaker.

This condenser may be removed, but if it seems to spoil the reception, it likely is defective and needs replacing.

Voltage Regulator Tube

The -74 tube in the B eliminator of my Kolster 6H a. c. receiver has burned out several times. What is the proper connection? Can the tube be taken out and not used?

Only two connections are necessary for the -74 voltage regulator tube, for the tube has but two pins that are used. One fits into the G opening of the socket, and the other into the filament hole diagonally opposite the grid connection. The tube then connects between the positive 90-volt terminal of the eliminator and the negative B terminal. Its purpose is to keep this 90-volt output constant and steady and improve reception. The tube should not burn out unless incorrect voltage is applied to the terminals because of defective wiring or changes in the circuit.

The eliminator will work when the

tube is removed, but the 90-volt output may be inclined to vary with signal fading or swinging as a result.

A Stuttering Receiver

My Clarion AC-51 model set fades and stutters, but after it warms up for an hour it works satisfactorily. What can be done to correct this annoyance?

Although the tubes have been replaced it seems to us that either a tube or socket may be defective. And a resistor can cause this annoying form of thermal irregularity. Check these sources again very carefully, giving strict attention to the tube sockets and the spring contacts. The rectifying tube may be at fault, or the two -45s in the push-pull output circuit. The volume control, which connects to the screen grids of the first three -24 tubes, should be examined carefully for defects.

Test out the entire circuit for broken or loose connections which might expand under heat and thus become better conductors. Check over the voice and field coils of the speaker, and see that the cone does not chatter against the field of the speaker.

Noisy Eliminator and Receiver

My A eliminator does not seem to work well, and my Freed Eiseman receiver is noisy and seems too loud at times. Can you help me out?

If the eliminator uses a metallic rectifying unit it is apt to become noisy as the rectifying ability of the metal discs become diminished. Often such units need replacing. The loudness may come from natural fading that you cannot control, or some fault in the tubes or receiver. All tubes should be tested. Perhaps the B-eliminator, if you use one, varies in voltage, especially in the 90-volt circuit. Read the answer to a previous question about the voltage regulator tube.

B-Eliminator Tube

My Gould eliminator requires a new tube but I have been unable to procure the old Manhattan tube the eliminator uses. Can I substitute some other make of tube?

We have no data on the Manhattan tube and imagine it has been replaced by another style. Your service man should be able to determine this for it seems likely that either the -16B or -81

tubes can be used provided two tubes are now in your eliminator or the -13 or -80 if one tube is used. But perhaps still another form of tube—the Raytheon—is used. Your local service man can decide this in a moment.

Another Noisy Set

I have a Metrose eight-tube receiver. It has given lots of trouble, for it pops and crackles all the time and the volume drops. I had a new resistor, power transformer, choke, and filler condenser installed at different times. Now it has new tubes, but the noise persists. What can be the trouble?

You seem to have a set that has a complication of diseases, for it has had more than its share of troubles. Once in a while a receiver turns up this way, and no amount of doctoring can make it perfect. However, the trouble must be in a bad resistor, a broken down power pack filter condenser, loose tubes in their sockets, a broken or loose connection, worn volume control, defective speaker voice coil or output transformer primaries, or aerial and ground. The latter adjuncts should not be overlooked, for a swinging aerial which touches some object or which has some loose connections often is the cause of troubles laid to the internal arrangements of radio sets. Certainly a competent service man can locate the seat of voltage variations, if in the set, by making a thorough continuity test of the entire circuit.

Interfering Hum

When the street lights go on in the evening my radio set begins to hum and I cannot stop it. The power company seems not able to prevent it, and what shall I do?

There is nothing that can be done when interference from adjacent power lines carrying alternating current is felt. The lines are dead until the street lights come on at night, and that is why the trouble is absent during the daylight hours. Remove the radio set to a point as far as possible from the lines, and set up an aerial still farther off, if practicable, but at right angles to the direction of the lighting wires. The use of an inside aerial of the coil type, buried antenna, or loop, should eliminate most of this hum, but there is always some loss in signal strength when smaller aeri-als are used.

Squeals and Jerks in Reception

My Knight eight-tube receiver squeals and jerks when the volume is turned up more than half way. How can I stop this annoying trouble?

Howling frequently is the cause of too much plate voltage on the radio frequency or detector tube. If this can be reduced somewhat the howling may cease. Again, it may be microphonic, and try grasping the detector tube to stop it. If the squeal subsides somewhat get a "howl arrester" and slip it over the tube. The jerking trouble may be due to loose tube socket connections, a defective resistor, or trouble in the power pack filter condenser. Have these parts tested by a competent service man, and at the same time examine the tubes for possible causes for the squealing. A tube may light, yet be defective, or always breaking into oscillation.

Ancient History of 1925

RAY EVERLY'S letter in the January RADEX, reminded me of the 'good old days' when we thought that WTAM's 3,500-watt station (storage-battery operated) was a super-power station and the more dials a set had the better it was," volunteers Eugene Martin, 704 South Green St., Wichita, Kansas. "I like to reminisce and recall 1925 before the Commission, before the Mexican 'invasion,' the day of the horn speaker and blooming set, when KFI was the chief DX thrill.

"Here is a list of fifteen questions compiled entirely out of my memory, which I believe will make the Old Timers hunt up their RADEX of seven years ago: "

1. What important station during the course of its existence has operated on 780, 600, 1040, 970 and 800?
2. What 5,000-watt station has operated on the same frequency since 1925?
3. What station was the first wave-pirate, taking a Canadian wave, breaking down governmental control and throwing broadcasting into chaos with stations shifting overnight to any frequency they wanted? (This station has at last suffered retribution by deletion; "the mills of the gods grind slowly," etc. *Ed.*)

4. What two high-powered NBC stations traded waves since the big shake-up?

5. What were the former call letters of the following: (a) WOW, (b) KTM, (c) KTSA, (d) WRUF, (e) WJSV, (f) KWK, (g) KOL, (h) WXYZ, (i) XEN, (j) WABC?

6. What Chicago station once shared a wave with WEAJ?

7. What station divided time with WLS for several years?

8. What station has operated on these six frequencies since 1925: 940, 760, 1190, 990, 1070 and 600?

9. What low-powered NBC station has had the same wave since 1925?

10. What were the letters of the old RCA station in New York that divided time with WOR on 740?

11. With what present-day station were these old-timers associated? (a) WLIB, (b) WQJ, (c) WCX, (d) WDAD, (e) KLDS.

12. What was the first big NBC station to go over to Columbia?

13. Under what call did WENR test its new 50 k.w. station in 1928?

14. What calls has WTAM used?

15. What station in 1926 changed its wave each evening from 1260 to 750 for a few hours?

Readers may check their memories with Mr. Martin's answers on page 24.

Outside the B. C. Band

(Continued from page 3)

press dispatch to ships at sea, which becomes the practice time of code beginners. The great NAA at Washington, NPG at San Francisco, Bordeaux and Paris, Manila, Holland, the East Indies, and Cape Race, may be heard any night on very long waves. There is a haunting fascination in listening to code, and, before one knows it, the code will seem familiar. In a few evenings the call signals, which are repeated many times, will begin to make sense, and the listener will be able to identify the station he hears.

Much has been said about short waves; anyone can arrange a suitable receiver. Broadcast bands are covered by standard sets. But the high waves

are not being explored by most radio fans. A long wave receiver is easy to construct. A -99 tube, two "A" dry cells, and a 45-volt "B" battery are necessary. Headphones are used, and are connected between the plate of the tube and the positive terminal of the B-battery. The filament of the tube connects to the A-battery with a rheostat in series to control the filament and volume. The -A and -B connect together, and also to the ground. Procure a "honey-comb" coil having a range of 9,000 to 18,000 meters, and also one ranging from 4,000 to 10,000 meters. Use one or the other according to the wave lengths to be tuned in.

A variable condenser of about .005 capacity should be connected across the ends of the coil and this is used for tuning purposes. Then connect the aerial to one end of the coil and the ground to the other. The aerial end of the coil should also go to the grid of the tube, but through a grid leak and condenser of standard values. Place a small fixed condenser across the telephone leads. Many stations can be heard with this set and hours of pleasing DX-ing can be enjoyed.

The Goldbergs

(Continued from page 7)

You remember that court-room scene in which Mollie saves Jimmie, the little Italian, from jail? Miss Berg considers that her best sketch, because every eye in the studio was damp when it was finished.

Off the air Jake is just as busy as Molly. He is writing a book of war memories, translates many American plays into Jewish and recently wrote twenty-six booklets and commercial radio sketches for a paint company. He likes radio better than the stage. His home is in Kew Gardens and he has a wife and two daughters. So far only one of his ambitions has been thwarted. He cannot learn the saxophone. But he plays pinochle, bridge, football and golf, in the few hours he is at home on Long Island.

Years ago he was one of the Hi Henry Minstrels and played in vaudeville at

Tony Pastor's, also in the 10-20-30 melodramas which graced Bowery billboards long before such producers as A. H. Woods, the Shuberts and Edgar Selwyn put him on Broadway.

Rosie and Sammy? They came in for rehearsal before the interview was finished. Sammy is Alfred Corn, son of a New York physician. Rosie is Roslyn Silber. A nice-looking boy of fourteen with a sensitive, artistic face and curly hair. Sammy is taller than Mollie or Jake and towers over Rosie's thick, dark curls. Three years ago he played "Curly" in Eva LeGallienne's "Peter Pan."

Both Rosie and Sammy are products of the Sunday Children's Hour and pupils of Miss Madge Tucker of NBC's production department.

"Time for a soda before rehearsal?" queried Sammy. It was a hot November afternoon. Rosie's eyes brightened.

"Ha, so that's the straw that shows the wind blows," exploded Jake.

"Rosie! Sammy! I'm surprised with you. Time it is for rehearsal and you ask for soda! Come!" Mollie marched them both off to rehearsal. Jake followed obediently.

The RADEX Family

(Continued from page 13)

This is the code for long-distance or distant reception.

M. E. Read, Care Cortes Development, La Lima, Honduras, writes to Gordon H. Wightman, whose inquiry regarding the cuckoo station was printed in December: "A friend of mine sent me a copy of the December RADEX and last night I was reading it with the radio on when I came to your inquiry. I turned to 1030 kcs. and immediately picked your station up, but had to stay on for some time to get an announcement—they having the same bad habit of not announcing except at long intervals. It was XEB, Mexico City." We will have to change our slogan to RADEX, The International Magazine! Here is a reader in Vancouver, B. C., asking a question and away down in Central America, another reader turns on his radio and gets the answer.

Here is a phenomenon discovered by

Gilbert Van Vranken, Jr., 2230 N. El Molina Ave., Pasadena, Calif. "I have noticed on three different radios that when you attach one tip of the earphones to the aerial binding post and the other tip to a good ground connection with the set turned off, at certain times of the day music can be heard just as loud as can be heard on a crystal set, but with a slight hum. Every night I can hear KFI in this way between 7:00 and 9:00 p.m. It is loudest at 8:00 and dies away at 9:00. From 9:00 to 9:15 nothing can be heard but at 9:30 KHJ can be heard faintly. This works only when the set is plugged into the current a certain way. Turn the prongs around and I get only a hum." So if your set goes dead some night, try Gilbert's discovery.

To Our DXers Parents

The Editor receives many letters commending the work of this magazine and once in a while one is received that is especially gratifying. Here is an example: "My boy, who is in high school, is never away from home nights and we are glad to have him where we can know what he is doing. He reads RADEX from cover to cover and gets up at 3:00 a.m. to pick up China, Japan, Australia and all over the world. I know you will be glad to know you and the RADEX are encouraging boys to devote their time to something that is educational as well as entertaining. You have my thanks and best wishes for a successful life. G. Ed. Alexander, Hughson, Calif."

"Your RADEX map shows Mexico on Mountain time," points out John S. Wyborski, 3011 Agate St., Philadelphia, Pa., "but XEO, XER, XET, XEW, XED and XEN at least, all use Central time." All official maps show Mexico on Mountain time, but in the U. S. and perhaps elsewhere, many cities are taking the time of the zone east of them in order to lengthen their daylight. Has anyone a better explanation?

We received many letters from readers who picked up the new phantom station CKTB. RADEX receives a voluminous mail and all letters are promptly answered with one exception. When the answer to a question is to appear in the new edition of this magazine, we let that serve as our reply. If, therefore, your

question is not answered in the next copy of the magazine, please write us again.

From Harvey Kees, Beulah, N. D.: "Ask the guy in charge of Questions and Answers to tell me whether the jack marked 'PHONO' on a seven-tube Amfico is for the phones or a phonograph. I find by plugging the phones in this jack that I have an excellent home broadcasting station but the music comes out of the phones too." Harvey reports reception in North Dakota as extraordinary. At almost any time of the day he can get all the big Chicago stations.

New Government Books Ready

While broadcasting stations in the United States number about 610, showing no substantial increase in the last year or two, the number of American radio stations of nearly all other classes has increased very largely. This is shown in the new lists of "Commercial and Government Radio Stations" and "Amateur Radio Stations" compiled by the Radio Division of the Department of Commerce and just off the presses of the Government Printing Office in Washington. The amateur increase alone was 4,000 in the last two years, 22,730 being listed. The commercial and government station list is available at 20 cents a copy and the amateur list at 35 cents. Address the Superintendent of Documents, Government Printing Office, Washington, D. C. Send currency or money order, not postage stamps.

"The Buenos Aires station on the short waves that relayed the Lucky Strike program to New York, Saturday, December 5th, was LSN on 30.33 meters," advises P. J. Soper, 256 Burroughs Terrace, Union, N. J. "LSN announced very clearly during the preliminary tests. The announcer had to rehearse his lines several times before the actual broadcast."

C. C. Jenkins, Director of Radio for the *Toronto Globe*, writes: "Have advised many people in this country to secure RADEX regularly as the best log of this country's stations as well as those in the States."

Richard D. Caddell, 605 Ridge Ave., North Side, Pittsburgh, Pa., sends us

clippings from the Pittsburgh papers reporting the conviction of Lee Elton Spencer, operator of the outlaw station WGM at Jeannette, Pa. Spencer faces a fine of \$5,000 and five years in prison. His defense was that his radio waves didn't leave the state!

Is this another illegitimate child? The Ambrose Radio Service, Ambrose, N. Dak., notifies us that WHHN is operating on 1500 kcs. at Noonan, N. Dak., and that their application has been on file for about nine years.

Using a hot-air register for an aerial, Clyd Yelland, 816 Hancock St., Hancock, Mich., has brought in a surprising number of distant stations "all without noise of any kind."

In answer to many inquiries, back issues of RADEX may be obtained at the regular price as far back as No. 41, September, 1930.

Those Programs Again

WE have been struggling for several months to find a method of giving the network programs in the most convenient form possible in a minimum of pages. Our readers have borne with us kindly and their letters to us have demonstrated to what a great number of people, our programs are a matter of primary importance. Here is one letter from hundreds:

"Not being a DXer but just one who turns to the radio for relaxation and entertainment, your feature "What's On the Air Tonight?" has added considerably to my enjoyment. Previously I had difficulty in remembering to keep track of the various items and programs that especially appealed to me. Now I have the information all tabulated so that I can tune in on any desired feature in a second.

"I read and enjoy each and every letter published, but cannot help wishing that those 'DX' fanatics who are intolerant of everybody's ideas but their own, would grant a little space to the other members of the RADEX family and refrain from continually exhorting you to make RADEX a DX magazine pure and simple. I am not, as I stated, a DX

fiend, but I understand their enthusiasm for their hobby and derive a lot of pleasure from their letters. Many thanks to the army of DX contributors whose letters convey much interesting and helpful material. Extend their department if you can but save a little corner for the fellows who, like myself, frequently stay on one particular station for hours at a time when the various programs happen to suit our mood."

This letter by H. Realff, Loon Lake, Sask., sums the matter up in a very fair way and we hope our DXers will say "Amen" more or less enthusiastically. Now that the newspapers of the country are deleting their programs to a point where they are worthless, it behooves RADEX more than ever to cover the program field.

Hundreds of readers write us that they are so situated that they must have the calls in connection with each program if they are to get any good out of them, hence the calls have returned to stay and in alphabetical order—a bit of drudgery no other publication undertakes. We now find our idea of the three chains in parallel columns will not work out properly because of the great difference in number of programs in a given time, making it necessary to look on three different pages for some periods. We are therefore returning in this issue to listing by hours rather than by chains and we are eliminating the annoyance of the "daily" column by putting each feature in its proper place for each day of the week, although we give the station calls for such repeated features but once. We feel sure that this change will be most helpful. We are also giving the times for the four zones, thus saving our friends in zones outside the Eastern from doing mental arithmetic with their radio pleasure. All in all, we feel that "What's On the Air Tonight?" as it appears in this number, is about as compact, convenient and comprehensive as we can make it. We hope you will like it.

Instead of a separate list of chain stations, the network affiliations including the National "Red" and "Blue" are now shown in both the Index by Frequencies and the Index by States and Cities.

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 ----- WABC

NATIONAL, Red ----- WEAJ

NATIONAL, Blue ----- 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 WEAJ WEEI
WFI WFLA WGY WIS WJAR WJAX
WPTF WRC WRVA WSAI WTAG
WTAM WVIC WWJ 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

R — Morning Devotions

KFYR WBEN WCAE WCKY WCSH
WEAF WFBR WFI WFLA WGY
WHAS WIBA WIOD WIS WJAR
WJAX WJDX WOV WPTF WRC
WRVA WSMB WTAG WVIC WWJ

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

R — Cheerio

CFCF CKGW KPRC WAPI WBEN
WCAE WCFL WCKY WCSH WDAF
WEAF WEEI WFBR WFI WFLA
WGY WHAS WIOD WIS WJAR
WJAX WJDX WKY WOA1 WOV
WPTF WRC WRVA WSB WSM
WSMB WTAG WTAM WVIC 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 WECB WFAA
WHAS WHO WIBA WJDX WKY WIS
WMC WOA1 WOV 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 WECB WFLA WIBA WIOD
WIS WJDX WKY WLS WMC WOA1
WREN WSB WSM WSMB WTMJ

R — Tom Waring's Troubadours

KSD WBEN WCAE WEAJ WEEI
WFBR WGY WHO WJAR WLIT
WMAQ WOV WOV WRC WTAM
WVIC WWJ

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 KTSa KFOR
WABC WACO WBCM WBT WCAH
WCAO WCAU WDBO WDRC WEAN
WFBL WHEC WHP WIBW WISN
WJAS WKBN WKWB WLAP WLWB
WLBZ WMAL WMT WNAC WOKO
WORC WPG WQAM WREC WSPD
WTAQ WTAR WTOC WWVA WXYZ

E-12:00 m., 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 WEAJ
WECB WEEI WENR WFAA WFBR
WFLA WGY WIBA WIOD WIS
WJAR WJAX WJDX WKY WLIT
WMC WOA1 WOV WPTF WRC
WRVA WSAI WSB WSM WSMB
WTAG WTAM WVIC 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 WECB WFLA WGAR WHAM
WHAS WHO WIBA WIOD WJAX
WJDX WJR WJZ WLW WMC WOV
WOV WPTF WRC WREN WRVA
WSB WSM WSMB

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

C — Columbia Revue, Emery Deutsch

CFRB KDYL KFH KFJF KPRC
KGB KHJ KLZ KMBC KMOX
KOH KOL KSCJ KTSa KVI KFOR
WABC WACO WADC WBRW WBT
WDBO WDRC WEAN WFAN WFBL
WGR WHEC WHP WIP WISN
WJAS WLAP WLWB WMAL WMT
WNAC WOKO WORC WPG WQAM
WREC WSPD WTAQ WTAR WTOC
WWVA

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

C — American School of the Air

KDYL KFH KFJF KFYR KPRC
KGB KHJ KLZ KMBC KMOX
KOH KOL KSCJ KTRH KVI KFOR
WABC WADC WBBM WBRW WBT
WCAH WCAO WCAU WCCO WDAE
WDBO WDRC WEAN WFBL WGR
WHEC WHK WHP WIBW WISN
WJAS WKBN WKRC WLAP WLWB
WLBZ WMAL WMT WNAC WNAX
WOKO WORC WPG WQAM WREC
WSPD WTAQ WTAR WTOC WWVA

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

R — Phil Spitalny, Tea Dansante

WBEN WCAE WEAJ WHO WJAR
WOC WTAG WTAM WWJ

C — Don Bigelow, Yeong's Orchestra

CFRB KFH KFJF KFYR KPRC
KGB KHJ KLZ KMBC KMOX KOH
KOL KSCJ KTSa KVI KFOR WABC
WACO WADC WBCM WBRW WBT
WCAO WCCO WDBO WDRC WEAN
WFAN WGR WHK WHP WIP WISN
WJAS WKBN WKRC WLAP WLWB
WLBZ WMAL WMT WNAC WOKO
WORC WPG WQAM WREC WTAQ
WTAR WWVA WXYZ

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 WECB WFLA WGAR WHAM
WHAS WHO WIBA WIOD WJAX
WJDX WJR WJZ WLW WMC WOV
WOV WPTF WRC WREN WRVA
WSB WSM WSMB

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 WECB WFLA WGAR WHAM
WHAS WHO WIBA WIOD WJAX
WJDX WJR WJZ WLW WMC WOV
WOV WPTF WRC WREN WRVA
WSB WSM WSMB

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 WECB WFLA WGAR WHAM
WHAS WHO WIBA WIOD WJAX
WJDX WJR WJZ WLW WMC WOV
WOV WPTF WRC WREN WRVA
WSB WSM WSMB

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 WECB WFLA WGAR WHAM
WHAS WHO WIBA WIOD WJAX
WJDX WJR WJZ WLW WMC WOV
WOV WPTF WRC WREN WRVA
WSB WSM WSMB

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 WECB WFLA WGAR WHAM
WHAS WHO WIBA WIOD WJAX
WJDX WJR WJZ WLW WMC WOV
WOV WPTF WRC WREN WRVA
WSB WSM WSMB

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 WECB WFLA WGAR WHAM
WHAS WHO WIBA WIOD WJAX
WJDX WJR WJZ WLW WMC WOV
WOV WPTF WRC WREN WRVA
WSB WSM WSMB

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 WECB WFLA WGAR WHAM
WHAS WHO WIBA WIOD WJAX
WJDX WJR WJZ WLW WMC WOV
WOV WPTF WRC WREN WRVA
WSB WSM WSMB

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 WECB WFLA WGAR WHAM
WHAS WHO WIBA WIOD WJAX
WJDX WJR WJZ WLW WMC WOV
WOV WPTF WRC WREN WRVA
WSB WSM WSMB

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 WECB WFLA WGAR WHAM
WHAS WHO WIBA WIOD WJAX
WJDX WJR WJZ WLW WMC WOV
WOV WPTF WRC WREN WRVA
WSB WSM WSMB

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 WECB WFLA WGAR WHAM
WHAS WHO WIBA WIOD WJAX
WJDX WJR WJZ WLW WMC WOV
WOV WPTF WRC WREN WRVA
WSB WSM WSMB

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 WECB WFLA WGAR WHAM
WHAS WHO WIBA WIOD WJAX
WJDX WJR WJZ WLW WMC WOV
WOV WPTF WRC WREN WRVA
WSB WSM WSMB

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

B — Farm and Home Hour

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

R — Raising Junior. See Sunday.

R — Waldorf-Astoria Orchestra

CKGW KFSD KGO KSD KSL WAPI
WCAE WEAJ WEEI WENR WFI
WHAS WIOD WIS WJDX WKY
WRC WSM WTAM

C — Current Events, Kallenborn

KFH KFJF KOH KRLL KSCJ KTRH
KFOR WAAB WABC WACO WADC
WBT WDAE WDBO WDRC WFBL
WHP WKRC WLAP WLWB WLWB
WMAL 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

KFJF KOH KRLL KSCJ KFOR
WAAB WABC WACO WADC WBRW
WBT WCAO WDAE WDBO WDRC
WFAN WFBL WGR WHEC WHK
WHP WIP WISN WLWB WLWB
WMAL WOKO WORC WQAM WREC
WSPD WTAQ WTAR WTOC WWVA

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

B — Taxpayers League Program

KFSD KFYR KGH1 KGIR KGO
KGW KHQ KOA KOMO KPRC
KSL KSTP KTAR WBAL WBAP
WENR WFLA WHAM WIBA WIOD
WIS WJDX WJZ WKY WLW WMC
WOAI WPTF WRC WREN WRVA
WSM WSMB WWCN

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

B — Royal Vagabonds

KOIL KWK WAPI WBAL WHAM
WHAS WJZ WLW WMAQ WOA1
WREN WSB WTMJ

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

C — Arthur Jarrett, Freddie Rich Orch.

CFRB KDYL KFH KFJF KFYR
KGB KLZ KMBC KMOX KOH
KSCJ KTRH KTSa KVI KFOR
WAAB WABC WACO WADC WBBM
WBRW WBT WCAH WCAO WCAU
WDAE WDBO WDRC WFBL WGR
WHEC WHP WIBW WJAS WKBN
WKWB WKRC WLAP WLWB WLWB
WMAL WMT WNAC WOKO WORC
WPG WQAM WREC WSPD WTAQ
WTAR WTOC WWVA WXYZ

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

R — Swift Program, Stebbins Boys

KSD WBEN WCAE WCSH WEAJ
WEEI WFBR WFI WGY WJAR
WRC WTAG WTAM WVIC WWJ
B — Lowell Thomas, Literary Digest

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

B — Lowell Thomas, Literary Digest

KDKA WBAL WBZA WHAM WJZ
WLW

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

B — Little Orphan Annie

KFYR KOIL KPRC KSTP KWK
WDAY WECB WENR WKY WOA1
E-7:00 p.m., C-6:00, M-5:00, P-4:00

C — Myrt and Marge

KMOX WABC WADC WCAO WCAU
WDRC WFBL WGR WJAS WKRC
WMAL WNAC WOKO WSPD WWVA

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

B — Little Orphan Annie

KFYR KOIL KPRC KSTP KWK
WDAY WECB WENR WKY WOA1
E-7:00 p.m., C-6:00, M-5:00, P-4:00

C — Myrt and Marge

KMOX WABC WADC WCAO WCAU
WDRC WFBL WGR WJAS WKRC
WMAL WNAC WOKO WSPD WWVA

Monday—Continued

C — Jack Miller's Orchestra
 WBCM WBRC WBT WDAE WDBO
 WQAM WREC WTAR WTOC
 R — Vermont Lumber Jacks
 WBN WCAE WCHS WEAF WEEI
 WENR WFBR WGY WJAR WLIT
 WSAI WTAG WTIC WWJ
 B — Pepsodent, Amos 'n' Andy
 CFCF 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 — Cremo, Bing Crosby
 WABC WACO WADC WBIG WBT
 WCAH WCAO WCAU WDAE WDBJ
 WDBO WDRC WEAN WFBL WGR
 WHEC WHK WHP WJAS WKRC
 WLBW WLBZ WMAL WMBD WNAC
 WOKO WORC WQAM WRR WSPD
 WTAR WTOC WXYZ
 R — Campbell, Howard Lannin Orch.
 CFCF CKGW WBN WCHS WDAF
 WEAF WENR WFBR WGY WHO
 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 — Pompeian, Boswell Sisters
 KMBC KMOX WABC WADC WCAO
 WCAU WDRC WEAN WFBL WGN
 WGR WHK WJAS WKRC WMAL
 WNAC WOWO WSPD WXYZ
 R — Prince Albert, Alice Joy
 KECA KFYR KGA KJR KOA KPO
 KSL KSTP KTAR WBN WCHS
 WDAF WDAY WEAF WECB WEEI
 WFBR WFLA WGY WIBA WIOD
 WIS WJAR WJAX WKY WLIT
 WOA1 WPTF WRC WRVA WSAI
 WTAG WTAM WTMJ WWJ WUNC
 E-7:45 p.m., C-6:45, M-5:45, P-4:45
 C — Camel, Morton Downey
 KFJF KFLR KMBC KMOX
 KRDL KSCJ KTRH WABC WACO
 WADC WBIG WBRC WBT WCAH
 WCAO WCAU WCCO WDAE WDBJ
 WDBO WDOD WDRC WDSU WEAN
 WFBL WFBM WGR WGST WHEC
 WHK WHP WIBW WISN WJAS
 WKRC WLAC WLAP WLZ WMAL
 WMT WNAC WNAX WNOX WOKO
 WORC WQAM WREC WSPD WTAR
 WTOC WVA WXYZ
 R — The Goldbergs
 WBN WCAE WEAF WENR WGY
 WSAI WTAM WWJ
 R — Swift, Stebbins Boys
 KOA KPRC KSTP KYW WDAF
 WFAA WHAS WHO WKY WMC
 WOC WOW WSB WSM WSMB
 B — Waves of Melody
 KOIL KWK WBAL WCKY WHAM
 WJZ WMAQ WREN
 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 WDRC WEAN WFBL
 WFBM WGN WGR WGST WHK
 WISN WJAS WKRC WMAL WNAC
 WOKO WSPD WXYZ
 R — Soconyland Sketches
 WBN WCHS WEAF 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 WUNC

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 WDRC WEAN WFBL
 WFBM WGN WHK WJAS WKBW
 WKRC WMAL WNAC WOKO WSPD
 C — Guy Lombardo, Royal Canadians
 KFJF WBCM WBRC WBT WDAE
 WDBO WPG WQAM WREC WTAR
 E-8:30 p.m., C-7:30, M-6:30, P-5:30
 C — La Palina, Kate Smith
 KMBC KMOX WABC WADC WBCM
 WCAH WCAO WCAU WCCO WFBL
 WFBM WGN WGR WHEC WHK
 WISN WJAS WKRC WLAP WMAL
 WSPD WXYZ
 C — Four Clubmen, Quartette
 KSCJ WAAB WBCM WDAE WDRC
 R — Firestone, Lawrence Tibbett
 CFCF CKGW KPRC KSD KTHS
 KVOO WBN WCAE WCHS WDAF
 WEAF WEEI WFAA WFBR WFLA
 WGF WHAS WHO WIOD WIS
 WJAR WJAX WJDX WKY WLIT
 WMAQ WMC WOA1 WOC WOW
 WRC WRVA WSAI WSB WSM
 WSMB WTAG WTAM WTIC WWJ
 B — Death Valley Days
 KDKA KFI KFSD KFYR KGO
 KGW KHQ KOA KOIL KOMO
 KSL KSTP KTAR KWK WBAL
 WBZA WCKY WECB WGAR WHAM
 WIBA WJZ WLS WREN
 E-8:45 p.m., C-7:45, M-6:45, P-5:45
 C — Col. Stoopnagle and Budd
 CFRB KMBC KMOX WABC WADC
 WCAO WCAU WDRC 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 WDRC WEAN WFBL WGN
 WHK WJAS WKBW WKRC WMAL
 WNAC WOKO WOWO WSPD WXYZ
 C — Arabesque, Desert Play
 WBCM WBRC WBT WDAE WDBO
 WQAM WREC WTAR WTOC
 R — A. & P. Gypsies
 KSD WBN WCAE WCHS WDAF
 WEAF WEEI WGY WHO WJAR
 WLIT WMAQ WOC WOW WRC
 WSAI WTAG WTAM WTIC WWJ
 B — Maytag Orchestra
 KDKA KFI KFYR KGO KGW
 KHQ KOA KOMO KPRC KSL KSTP
 KVOO KWK WBAL WBZA WDAY
 WECB WFAA WGAR WHAM WJR
 WJZ WKY WLS WMC WOA1 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 WDRC WEAN WFBL WGN
 WJAS WKBW 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
 WHEC WHK WJAS WKBW WKRC
 WMAL WMT WNAC WOWO WSPD
 C — Round Towners, Irene Beasley
 KFPY KOH WBCM WBRC WDAE
 WDBO WQAM WREC WTOC
 R — Parade of the States
 KFI KFYR KGO KGW KHQ KOA
 KOMO KPRC KSD KSL KSTP
 WBN WCAE WCHS WDAF WEAF
 WEEI WENR WFAA WGY WHAS
 WHO WJAR WJAX WKY WLIT
 WMC WOA1 WOC WOW WRC
 WSAI WSB WSM WTAG WTAM
 WTIC WTMJ WWJ

E-9:45 p.m., C-8:45, M-7:45, P-6:45
 C — Modern Male Chorus
 WBCM WBRW WDAE WDBO WQAM
 WREC WTAR WTOC
 E-10:00 p.m., C-9:00, M-8:00, P-7:00
 C — Robert Burns, Lombardo
 KDYL KFJF KFPY KFRC KHJ
 KLZ KMBC KMOX KOIN KOL
 KRDL KTRH KTSa WABC WADC
 WBBM WCAO WCAU WCCO WDRC
 WEAN WFBL WFBM WHK WJAS
 WKBW WKRC WMAL WNAC WOWO
 WSPD WXYZ
 C — The Columbians, Freddie Rich
 WBCM WBRC WBT WDBO WREC
 WTAR WTOC
 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 KFPY KFRC
 KGB KHJ KLRA KLZ KMBC KMOX
 KOH KOIN KOL KSCJ KTRH KTSa
 WAAB WABC WACO WADC WBBM
 WBCM WBRC WBT WCAH WCAO
 WCAU WCCO WDAE WDBJ WDBO
 WDOD WDRC WDSU WEAN WFBL
 WFBM WGST WHEC WHK WHP
 WIBW WISN WJAS WKBW WKRC
 WLAC WLWB WLBZ WMAL WMT
 WNAX WNOX WOKO WORC WOWO
 WPG WQAM WREC WRR WSPD
 WTAR WTOC WXYZ
 E-10:45 p.m., C-9:45, M-8:45, P-7:45
 C — Street Singer
 CFRB KFH KGB WAAB WABC
 WADC WBRW WBT WCAO WCAU
 WDAE WDBO WDRC WEAN WFBL
 WHEC WHP WJAS WKBW WLBZ
 WMAL WMT WOKO WORC WPG
 WQAM WREC WTAR WTOC
 C — Myrt and Marge
 KDYL KFPY KFRC KHJ KLZ
 KMBC KOIN KOL WBBM WCCO
 WLAP WXYZ
 E-11:00 p.m., C-10:00, M-9:00, P-8:00
 C — Cremo, Bing Crosby
 KDYL KFH KFJF KFPY KLRA
 KLZ KMBC KMOX KOH KOIN KOL
 KSCJ KTRH KTSa WBCM WCCO
 WDOD WDRC WDSU WFBM WGN
 WGST WIBW WISN WLAC WLAP
 WMT WNAX WNOX WOWO WREC
 B — Pepsodent, Amos 'n' Andy
 KFI KFSD KGO KGW KHQ KOA
 KOIL KOMO KPRC KSL KSTP
 KTHS KWK WBAF WDAF WECB
 WENR WHAS WIBA WJDX WKY
 WMAQ WMC WOA1 WREN WSB
 WSM WSMB WTMJ
 E-11:15 p.m., C-10:15, M-9:15, P-8:15
 C — Toscha Seidel, Howard Barlow
 CFRB KDYL KFH KFJF KLZ KSCJ
 KTRH KTSa KVR WAAB WABC
 WACO WADC WBRC WBT WCAH
 WCAO WCAU WDAE WDBO WDRC
 WEAN WHEC WHP WIBW WISN
 WKBW WKBW WKRC WLAP WLWB
 WLBZ WMT WNAX WOKO WORC
 WOWO WQAM WREC WSPD WTAR
 WTOC WXYZ
 R — Prince Albert, Alice Joy
 KECA KEX KGA KGIR KJR KOA
 KPO KPRC KSD KTAR KTHS
 WAPI WBAF WENR WHAS WHO
 WJDX WMC WOC WOW WSB WSM
 E-11:30 p.m., C-10:30, M-9:30, P-8:30
 C — Camel, Morton Downey
 KDYL KFPY KLZ KOH KOIN KOL
 KTSa WGN WOWO
 R — Jesse Crawford, Organ
 KFYR KPRC KSD WCAE WCFL

Tuesday—Continued

C — Myrt and Marg, See Monday
 B — Paris Night Life
 KDKA KOIL KYW WBAL WBZA
 WCKY WGAR WHAM WJZ WREN
 E-11:00 p.m., C-10:00, M-9:00, P-8:00
 C — Bing Crosby, See Monday
 R — Marion Harris, Song Recital
 KSD WEAF WFI WGY WIOD WIS
 WJAX WRC WTIC WWJ
 B — Amos 'n' Andy, See Monday
 E-11:15 p.m., C-10:15, M-9:15, P-8:15
 C — Howard Barlow, Col. Symphony
 CFRB KDYL KFJ KFJF KFPY
 KFRC KGB KLZ KMBC KOH KSCJ
 KTRH KTSa KVOR WAAB WABC
 WACO WADC WBRC WBT WCAH
 WCAO WCAU WDAE WDBO WDRC
 WEAN WFBL WHEC WHP WIBW
 WISN WKBW WKRC WLAP WLBW
 WLBZ WMT WNAX WOKO WORC
 WOWO WQAM WREC WSPD WTAR
 WTOC WXYZ
 R — Jesse Crawford, Organ
 WEAF WFI WIOD WJAR WRC
 R — Alice Joy, See Monday
 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 WDRC
 WLBZ WMAL WORC WQAM WREC
 WTAR WTOC
 C — Morton Downey, See Monday
 R — Jack Denny, Orchestra
 CFCF KFJR KOA KSD KTHS
 WBEN WEAF WENR WFI WIBA
 WIOD WJAR WJAX WRC WTAM
 WTIC WWJ
 B — Three Doctors, See Sunday
 E-12:00 m., C-11:00, M-10:00, P-9:00
 C — Noble Sissle Orchestra
 KDYL KFJF KFPY KLZ KMBC
 KOH KSCJ KTRH KVOR WABC
 WCAU WCCO WEAN WFBL WHP
 WIBW WISN WKBN WKBW WKRC
 WLAP WLBW WMT WNAC WNAX
 WOKO WSPD
 E-12:05 a.m., C-11:05, M-10:05, P-9:05
 R — Rudy Vallee, Connecticut Yankees
 KFJR KOA KSD KTHS WBEN
 WDAF WEAF WHO WOC WOW
 WRC WSB WSM WTIC WTMJ
 E-12:30 a.m., C-11:30, M-10:30, P-9:30
 C — Cafe de la Paix Orchestra
 KDYL KFJF KFPY KGB KHJ KLZ
 KMBC KRDL KSCJ KTRH WABC
 WCAU WCCO WEAN WFBL WHP
 WIBW WISN WKBN WKBW WLBW
 WNAC WNAX WOKO WSPD KVOR

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
 R — Morning Devotions, See Monday
 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-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
 C — Don Bigelow, See Monday
 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-2:30 p.m., C-1:30, M-12:30, P-11:30
 C — School of Air, See Monday

E-4:30 p.m., C-3:30, M-2:30, P-1:30
 R — Phil Spitalny, See Monday
 E-5:00 p.m., C-4:00, M-3:00, P-2:00
 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-5:30 p.m., C-4:30, M-3:30, P-2:30
 B — Old Pappy, 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 KFPY KMOX KOH KRDL KSCJ
 KTRH KVOR WAAB WABC WACO
 WADC WBRC WBT WDAE WDBO
 WDRC WEAN WFAN WFBL WGR
 WHEC WHP WIP WISN WLAP
 WLBW WLBZ WMAL WOKO WORC
 WQAM WREC WSPD WTAQ WTAR
 WTOC WVVV
 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
 C — Art Jarrett, Freddie Rich, See Mon.
 R — Stebbins Boys, See Monday
 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
 C — Jack Miller Orch., See Monday
 B — Amos 'n' Andy, See Monday
 E-7:15 p.m., C-6:15, M-5:15, P-4:15
 C — Bing Crosby, See Monday
 R — Campbell-Lanin, See Monday
 E-7:30 p.m., C-6:30, M-5:30, P-4:30
 C — Boswell Sisters, 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
 R — Stebbins Boys, See Monday
 B — Believe It or Not, Ripley
 KDKA WBAL WBZA WHAM WIS
 WJZ WPTF WRVA WWNC
 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 WEEI
 WFRB WGY WHO WJAR WLIT
 WMAQ WOC WOW WRC WSAI
 WTAM WWJ
 E-8:15 p.m., C-7:15, M-6:15, P-5:15
 C — Singin' Sam, See Monday
 C — Light Opera Gems
 WBCM WBRC WBT WDAE WDBO
 WPG WQAM WREC WTAR WTOC
 B — Melo-Clarions, Twin Organs
 KFJR KOA KOIL KPRC KSL KSTP
 KVOO KWK KYW WBAL WFAP
 WBZA WCKY WDAY WEBC WFAA
 WFLA WGAR WHAM WHAS WIBA
 WIOD WJAX WJDX WJR WJZ
 WKY WMC WOAI WREN WRVA
 WSB WSM WSMB WTMJ WWNC
 E-8:30 p.m., C-7:30, M-6:30, P-5:30
 C — Kate Smith, See Monday
 R — Goodyear, Sausa's Band
 KFJR KGO KGW KHQ KOA KOMO
 KPRC KSD KSL KSTP KVOO KYW
 WBEN WCAE WCSH WDAF WDAY
 WEAF WEBC WEEI WFRB WFLA
 WGY WHAS WHO WIBA WIOD
 WIS WJAR WJAX WJDX WKY
 WLIT WMC WOAI WOC WOW
 WRC WSAI WSB WSMB WTAG
 WTAM WTIC WTMJ WWJ WWNC
 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
 WDRC WEAN WFBL WFBM WGN
 WHK WJAS WKBW 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 WEEI WFRB WGY WHAS
 WHO WJAR WJAX WLIT WMC
 WOAI WOC WOW WRC WRVA
 WSAI WSB WSM WSMB WTAG
 WTAM WTMJ WWJ
 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
 WEEI WFAA WFRB 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 WWJ
 B — Dutch Masters
 KDKA KWK WBAL WBZA WENR
 WGAR WHAM WJR WJZ WLW
 E-10:00 p.m., C-9:00, M-8:00, P-7:00
 C — Vitality Personalities
 KDYL KFJF KFPY KFRC KHJ
 KLRA KLZ KMBC KMOX KOIN
 KOL KRDL KTRH KTSa WAAB
 WABC WADC WBBM WBRC WBT
 WCAH WCAO WCAU WCCO WDRC
 WDSU WEAN WFBL WFBM WGST
 WHK WISN WJAS WKBW WKRC
 WLAC WMAL WOKO WOWO WREC
 WSPD WXYZ
 R — Coca Cola
 KFI KFSD KGO KGW KHQ KOA
 KOMO KPRC KSD KSL KSTP
 WAPI WBAP WBEN WCAE WCSH
 WDAF WEAF WECB WEEI WENR
 WFRB WFLA WGY WHAS WHO
 WIOD WIS WJAR WJAX WJDX
 WLIT WMC WOAI WOC WOW
 WRC WSAI WSB WSM WSMB WTAG
 WTAM WTMJ WWJ WWNC
 B — Russ Columbo, See Tuesday
 E-10:15 p.m., C-9:15, M-8:15, P-7:15
 C — Weed Chain, Orchestra
 CKAC KDYL KFJF KLZ KMBC
 KMOX KRDL WAAB WABC WADC
 WCAO WCAU WCCO WDRC WFBL
 WGN WHK WJAS WKBW WKRC
 WLBZ WMAL WOWO WSPD WXYZ
 C — Quiet Harmonies
 KSCJ WBCM WBRC WBT WDAE
 WDBO WPG WTAR WTOC
 E-10:30 p.m., C-9:30, M-8:30, P-7:30
 C — Music That Satisfies, See Monday
 R — David Guion, Orchestra
 CFCF CKGW KGW KHQ KOA KSL
 KSTP KTAR KTHS KVOO WCAE
 WCSH WDAY WEAF WEBC WEEI
 WENR WGY WHO WJAR WJAX
 WKY WLIT WMC WOAI WOC WOW
 WSM WSMB WTAG WTAM WTMJ
 WWJ WWNC
 B — Clara, Lu and Em, See Tuesday

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 — Hollywood Nights
 KDKA KOIL KWK KYW WBAL
 WBZA WCKY WGAR WHAM WJR
 WJZ WREN
 E-11:00 p.m., C-10:00, M-9:00, P-8:00
 C — Bing Crosby, See Monday
 R — Nellie Revell
 KSD WEAF WGY WJAR WOW
 WRC WTAM WWJ
 B — Amos 'n' Andy, See Monday
 E-11:15 p.m., C-10:15, M-9:15, P-8:15
 C — Toscha Seidel, See Monday
 R — Jesse Crawford, See Tuesday
 R — Alice Joy, 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 WDRS
 WLBZ WMAL WORC WPG WQAM
 WREC WTAR WTOC
 C — Morton Downey, See Monday
 R — Vincent Lopez, Orchestra
 KFJR KPRC WAPI WBEN WCFL
 WCKY WEAF WGY WIBA WJAR
 WLOW WRC WTMJ WWJ
 E-12:00 m., C-11:00, M-10:00, P-9:00
 C — Eddie Duchin, Casino Orchestra
 KDYL KFJ KGB KHJ KLZ KMBC
 KOH KSCJ KTRH KVOR WABC
 WCAU WCCO WEAN WFBL WHK
 WHP WISN WKBN WKBW WKRC
 WLAP WLBW WMT WNAC WNAX
 WOKO WSPD
 E-12:05 a.m., C-11:05, M-10:05, P-9:05
 R — Coon-Sanders, Orchestra
 KFSD KHQ KOA WAPI WEAF
 WENR WGY WRC WSB

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
 R — Morning Devotions, See Monday
 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
 R — Tom Waring, See Monday
 B — Phil Cook, 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
 C — Don Bigelow, See Monday
 R — General Electric, See Monday
 E-12:30 p.m., C-11:30, M-10:30, P-9:30
 C — Columbia Revue, See Monday
 B — Farm and Home, See Monday
 E-2:30 p.m., C-1:30, M-12:30, P-11:30
 C — School of Air, See Monday
 E-4:30 p.m., C-3:30, M-2:30, P-1:30
 R — Phil Spitalny, See Monday
 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
 B — Old Pappy, See Monday
 E-5:45 p.m., C-4:45, M-3:45, P-2:45
 R — Russ Columbo, See Monday
 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 — Fred Martin, Bossert Orchestra
 CFRB KFJ KFJF KLZ KRDL KSCJ
 KTRH KVOR WAAB WABC WACO
 WADC WBRC WBT WCAH WCAO
 WDAE WDBO WDRS WEAN WFBL

WGR WHEC WHP WISN WKRC
 WLAP WLBW WLBZ WMAL WOKO
 WORC WQAM WREC WTAR WTOC
 WCCO
 E-6:30 p.m., C-5:30, M-4:30, P-3:30
 C — Connie Boswell
 KFJF KFJF KLZ KMOX KSCJ KTRH
 KVOR WAAB WABC WACO WBRC
 WBT WCAO WCAU WCCO WDBO
 WDRS WEAN WFBL WHP WISN
 WJAS WKBN WKBW WKRC WLAP
 WLBW WLBZ WMT WOKO WORC
 WQAM WREC WSPD WTOC WVVV
 R — The World Today
 KFJR KGHK KGIR KOA KSD
 WEAF WFAA WFI WIBA WJAX
 WJDX WKY WMAQ WSAI WTC
 WWJ WVNC
 E-6:45 p.m., C-5:45, M-4:45, P-3:45
 R — Stebbins Boys, See Monday
 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
 C — Bing Crosby, See Monday
 R — Campbell-Lanin, See Monday
 B — Tastyest Jesters, See Monday
 E-7:30 p.m., C-6:30, M-5:30, P-4:30
 C — Kaltenborn News, See Tuesday
 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
 R — Stebbins Boys, See Monday
 B — Famous Business Fallacies
 WBAL WCKY WEBC WFLA WGAR
 WIS WJAX WJZ WLS WRC WREN
 WRVA WVNC
 E-8:00 p.m., C-7:00, M-6:00, P-5:00
 C — Bath Club, See Monday
 R — Fleischmann, Rudy Vallee
 CFCF CKGW KFI KGO KGW KHQ
 KOA KOMO KPRC KSD KSL KSTP
 KTAR WBAP WBEN WCAE WCHS
 WDAF WEAF WEBC WEEI WFRB
 WFI WFLA WGY WHAS WHO
 WIOD WJAR WJAX WJDX WKY
 WMAQ WMC WQAI WOC WOW
 WRC WRVA WSAI WSB WSM WSMB
 WTAG WTAM WTC 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
 C — Dixie Serenaders
 WBCM WBRC WBT WDAE WPG
 WQAM WREC WTOC
 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
 C — Snowdrift Southern Melodies
 KFJF KLRA KTRH KTSB WBIG
 WBRC WBT WDAE WDBJ WDBO
 WDOD WDSU WGST WLAP WNOX
 WQAM WREC WRR WTAR WTOC
 B — Blackstone, Sanderson-Crumit
 KDKA WBAL WBZA WCKY WHAM
 WJZ
 E-9:15 p.m., C-8:15, M-7:15, P-6:15
 C — Mennen, Irene Beasley
 KFJF KFPY KLZ KSCJ KVOR WABC

WCAH WDAE WDRS WHP WJAS
 WKBW WLBZ WMAL WNAX WREC
 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 WDRS WEAN WFBL
 WGN WHK WJAS WKBW WKRC
 WMAL WNAC WOWO WSPD WXYZ
 R — Sherlock Holmes
 CFCF CKGW KSD WBEN WCAE
 WCHS WDAF WEAF WEEI WENR
 WFI WGY WHO WJAR WOC WOW
 WRC WSAI WTAG WTAM WTC
 B — Maxwell House Ensemble
 KDKA KFI KFSO 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 WQAI
 WREN WRVA WSB WSM WSMB
 WTMJ WVNC
 E-9:45 p.m., C-8:45, M-7:45, P-6:45
 C — Male Chorus, See Monday
 E-10:00 p.m., C-9:00, M-8:00, P-7:00
 C — H.S.M. Trumpeters
 KFJF KLZ KMBC KMOX KRDL
 WAAB WABC WADC WBBM WCAO
 WCCO WDRS WDSU WEAN WFBL
 WGST WHK WJAS WKBW 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 — Clara, Lu and Em, See Tuesday
 E-10:45 p.m., C-9:45, M-8:45, P-7:45
 C — Jack Miller, Orchestra, See Tuesday
 C — Myrt and Marge, See Monday
 B — Paris Night Life, See Tuesday
 E-11:00 p.m., C-10:00, M-9:00, P-8:00
 C — Bing Crosby, See Monday
 B — Amos 'n' Andy, See Monday
 E-11:15 p.m., C-10:15, M-9:15, P-8:15
 C — Howard Barlow, See Tuesday
 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
 R — Jesse Crawford, See Monday
 B — Three Doctors, See Sunday
 E-11:45 p.m., C-10:45, M-9:45, P-8:45
 R — Cab Calloway, See Monday
 E-12:00 m., C-11:00, M-10:00, P-9:00
 C — Guy Lombardo, Royal Canadians
 KDYL KFJ KGB KLZ KMBC
 KSCJ KTRH KVOR WABC WCAU
 WCCO WEAN WFBL WHK WHP
 WISN WKBN WKBW WKRC WLAP
 WLBW 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 a.m., C-11:30, M-10:30, P-9:30
 C — Louis Panico, Orchestra
 KDYL KFJ KFPY KGB KLZ KMBC
 KSCJ KTRH WABC WCAU WCCO
 WEAN WFBL WHK WISN WKBN
 WKBW WLAP WLBW WMT WNAC
 WNAX WOKO WSPD

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
 R — Morning Devotions, See Monday
 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

Friday—Continued

E-9:15 a.m., C-8:15, M-7:15, P-6:15
 R — Tom Waring, See Monday
 B — Phil Cook, See Monday
 E-11:00 a.m., C-10:00, M-9:00, P-8:00
 R-B — Music Appreciation, Damosch
 CFCF CKGW KDKA KFJR KOA
 KPRC KSD KSL KSTP KTHS KVOO
 KWK KYW WAPI WBAL WBAP
 WBEN WBZA WCAE WCKY WCSH
 WDAF WDAY WFAE WEBC WEEI
 WENR WFAA WFBR WFLA WGAR
 WGY WHAM WHAS WHO WIBA
 WIOD WIS WJAR WJAX WJDX WJR
 WJZ WKY WLIT WLW WMC WOAI
 WOC WPTF WRC WREN WRVA
 WSAI WSB WSM WSMB WTAG
 WTAM WTIC WTMJ WWJ WWNC
 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
 C — Don Bigelow, See Monday
 R — General Electric, See Monday
 E-12:30 p.m., C-11:30, M-10:30, P-9:30
 C — Columbia Revue, See Monday
 B — Farm and Home, See Monday
 E-2:30 p.m., C-1:30, M-12:30, P-11:30
 C — School of Air, See Monday
 E-4:30 p.m., C-3:30, M-2:30, P-1:30
 R — Phil Spitalny, See Monday
 E-5:00 p.m., C-4:00, M-3:00, P-2:00
 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-5:30 p.m., C-4:30, M-3:30, P-2:30
 B — Old Pappy, See Monday
 E-5:45 p.m., C-4:45, M-3:45, P-2:45
 R — Russ Columbo, See Monday
 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
 C — Vaughn de Leath
 KFJF KOH KSCJ WAAB WABC
 WBRC WBT WCAO WDBO WDRC
 WHP WJAS WLWB WLBZ WOKO
 WORC WQAM WREC WSPD WTOC
 WWVZ WXYZ
 B — Royal Vagabonds, See Monday
 E-6:45 p.m., C-5:45, M-4:45, P-3:45
 C — Ross Gorman, Biltmore Orchestra
 CFRB KFH KFJF KLZ KMBC KOH
 KSCJ KVOR WAAB WABC WACO
 WBRC WBT WCAH WCAU WDBO
 WDRC WFBL WHP WISN WKBN
 WKBW WKRC WLAP WLWB WLBZ
 WMT WOKO WORC WQAM WREC
 WTAG WTOC WWVA
 R — Stebbins Boys, See Monday
 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
 C — Jack Miller, See Monday
 R — Crime, C. F. Coe
 KFSD KGO KOA WCAE WFAE
 WJAR WWJ
 B — Amos 'n' Andy, See Monday
 E-7:15 p.m., C-6:15, M-5:15, P-4:15
 C — Bing Crosby, See Monday
 R — Campbell-Lanin, See Monday
 E-7:30 p.m., C-6:30, M-5:30, P-4:30
 C — Boswell Sisters, 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
 R — Stebbins Boys, See Monday
 B — Ripley, See Wednesday
 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
 WFAE WEBC WEEI WFAA WGY
 WHO WJAR WKY WLIT WOAI
 WOC WOV WRC WSAI WTAG
 WTAM WTIC 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 — Funnyboners and Orchestra
 KFRC WBCM WBRC WDAE WDBO
 WQAM WREC WTAR WBT
 E-8:30 p.m., C-7:30, M-6:30, P-5:30
 C — March of Time
 KDYL KPPY KFRC KHJ KLZ
 KMBC KMOX KOIN KOL WABC
 WADC WBT WCAO WCAU WCCO
 WDRC WDSU WEAN WFBL WGN
 WGR WGST WHK WJAS WKRC
 WMAL WNAC WOWO 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
 WDRC WEAN WFBL WGN WGST
 WHK WJAS WKBW WKRC WMAL
 WNAC WOKO WORC WOWO WREC
 WRR WSPD WTAR WXYZ
 R — Cluquet Club
 KSD WBEN WCAE WCSH WDAF
 WFAE WEEI WGY WHO WJAR
 WLIT WLS WOC WOW WRC WSAI
 WTAG WTIC WWJ
 B — Friendship Town
 CFCF CKGW KDKA KFI KFSD
 KFJR KGO KGW KHQ KOA KOIL
 KOMO KPRC KSL KSTP KTAR
 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 KRLD WABC WADC
 WCAO WCAU WCCO WDRC WEAN
 WFBL WGN WGST WHK WJAS
 WKBW WKRC WMAL WNAC WOKO
 WOWO WSPD WXYZ
 R — Pond's Program, Leo Reisman
 KSD WBEN WCAE WCSH WDAF
 WFAE WENR WFBR WGY WHO
 WJAR WLIT WOC WOW WRC
 WSAI WTAG WTAM
 B — Armour Program
 KDKA KFI KGO KGW KHQ KOA
 KOIL KOMO KPRC KSL KSTP
 KWK KYW WAPI WBAL WBZA
 WEBC WFAA WGAR WHAM WHAS
 WIOD WJAX WJDX WJR WJZ
 KWI WLW 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 KRLD
 WABC WBT WCAO WCAU WCCO
 WDRC WDSU WEAN WFBL WGN
 WHK WJAS WKBW WKRC WLAC
 WMAL WMT WNAC WNOX WREC
 E-10:00 p.m., C-8:00, M-7:00, P-7:00
 C — Cafe Budapest
 CFRB KDYL KFH KFJF KGB
 KHJ KLZ KMBC KOH KRLD KTSK
 KVOR WAAB WABC WADC WBRC
 WBT WCAH WCAO WCAU WDAE
 WDBO WDRC WEAN WFBL WHEC

WHK WHP WIBW WISN WJAS
 WKBW WKRC WLAP WLWB WLBZ
 WMAL WMT WNAX WOKO WORC
 WOWO WREC WTAG WTAR WTOC
 R — NBC Artists' Service
 CFCF WCAE WCSH WDAF WFAE
 WFBR WGY WJAR WLIT WMAQ
 WRC WSAI WTAG WTAM WWJ
 B — Paul Whiteman's Paint Men
 KDKA KFI KFSD KFJR KGO
 KGW KHQ KOA KOIL KOMO
 KPRC KSL KSTP KTAR KVOO KWK
 WBAL WBAP WBZA 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 KFSD KFJR KGO KGW KHQ
 KOA KOMO KSD KSL KTAR WBEN
 WCAE WCSH WDAY WFAE WEEI
 WENR WFBR WFLA WGY WHAS
 WHO WIBA WIOD WJAR WJAX
 WJDX WKY WLIT WMC WOAI
 WOC WOW WRC WRVA WSAI
 WSB WSMB WTAG WTAM WTIC
 WTMJ WWJ
 B — Clara, Lu and Em, See Tuesday
 E-10:45 p.m., C-9:45, M-8:45, P-7:45
 C — Col. Stoopnagle and Budd
 CFRB KGB WAAB WABC WADC
 WBCM WBRC WBT WCAO WCAU
 WDAE WDBO WDRC WEAN WFBL
 WHEC WHP WJAS WKBW WLWB
 WLBZ WMAL WNAC WOKO WORC
 WPG WQAM WREC WTAR WTOC
 C — Myrt and Marge, See Monday
 B — Waves of Melody
 KDKA KOIL KWK KYW WBAL
 WBZA WCKY WGAR WHAM WJR
 WJZ WREN
 E-11:00 p.m., C-10:00, M-9:00, P-8:00
 C — Bing Crosby, See Monday
 R — Marion Harris, See Tuesday
 B — Amos 'n' Andy, See Monday
 E-11:15 p.m., C-10:15, M-9:15, P-8:15
 C — Howard Barlow, See Tuesday
 R — Vincent Lopez, Orchestra
 KSD WBEN WCFW WFAE WEEI
 WIOD WJAR WOW WRC WWJ
 R — Alice Joy, 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, Orch., See Wed.

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
 R — Morning Devotions, See Monday
 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
 R — Tom Waring, See Monday
 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-4:30 p.m., C-3:30, M-2:30, P-1:30
 R — Phil Spitalny, See Monday
 E-5:00 p.m., C-4:00, M-3:00, P-2:00
 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-5:30 p.m., C-4:30, M-3:30, P-2:30
R — Station KUKU
WBN WCAE WCSH WDAF WFAF WFAF
WFBR WGY WHO WJAR WLIT
WOC WOW WRC WTAG WTAM
WTMJ
B — Old Pappy, 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 — Paising Junior, See Sunday
E-6:15 p.m., C-5:15, M-4:15, P-3:15
C — Freddie Martin, Bossert Orch.
KFH KFJF KFPY KFRC KGB
KHJ KOH KOL KRDL KSCJ KVI
KVOR WAAB WABC WACO WADC
WBRW WBT WCAO WDAE WDBO
WDRW WEAN WFAN WFBL WGR
WHEC WHP WIP WISN WLAP
WLBW WLBZ WOKO WORC WQAM
WREC WTAR WTOC
B — Buster's Circus Parade
KDKA KFJR KOA KPRC KWK
WBAF WBZA WDAY WEBC WENR
WGAR WHAM WIBA WKY WOAI
WREN WTMJ
E-6:30 p.m., C-5:30, M-4:30, P-3:30
B — Old Topper, See Tuesday
E-6:45 p.m., C-5:45, M-4:45, P-3:45
C — Connie Boswell
CFRB KFH KFJF KFPY KFRC KGB
KHJ KMBC KMOX KOH KOL
KSCJ KVOR WAAB WABC WACO
WBRW WBT WCAH WCAU WCCO
WDBO WDRW WFBL WHP WISN
WJAS WKBN WKBW WKRC WLAP
WLBW WLBZ WMAL WMT WOKO
WORC WQAM WREC WTOC WWVA
R — Cab Calloway, Orchestra
WCAE WFAF WENR WFBR WFI
WHO WIOD WIS WJAR WJDX
WOC WRC WSAI WSM WTAG
WTIC WWNC
E-7:00 p.m., C-6:00, M-5:00, P-4:00
C — Fredk. William Wile, Politics
KDYL KFH KFJF KFPY KFRC
KGB KHJ KMBC KOH KSCJ KTS
KVOR WABC WACO WADC WBT
WCAH WCAU WDAE WDBO WDRW
WEAN WFBL WGR WHEC WHP
WIBW WISN WKBN WKRC WLAP
WLBW WLBZ WMT WNAC WNAX
WOKO WQAM WREC WSPD WTAR
WWVA WXYZ
B — Amos 'n' Andy, See Monday
E-7:15 p.m., C-6:15, M-5:15, P-4:15
C — Bing Crosby, See Monday
R — Laws That Safeguard Society
KECA KFSD KFJR KGA KJR
KOA KPO KTAR KTHS WAPI
WBN WCSH WDAY WFAF WEBC
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 — Reis and Dunn
CFRB KDYL KFH KFJF KFPY
KFRC KGB KMBC KMOX KOH
KSCJ KTS KVI KVOR WABC
WACO WADC WBRW WBT WCAH
WCAO WCAU WCCO WDAE WDBO
WDRW WFBL WHEC WHP WISN
WKBN WKBW WLAP WLBW WLBZ
WMT WNAC WNAX WOKO WORC
WREC WTAR WTOC WWVA WXYZ
R — Alice Joy, See Monday
B — Sonata Recital
CFCF KECA KFSD KPO WAPI
WGAR WJZ WREN WBS WSM
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 — Hollywood Nights
KDKA KOIL KWK WBAL WBZA
WCKY WGAR WHAM WJR WJZ
WMAQ WREN
E-8:00 p.m., C-7:00, M-6:00, P-5:00
C — Col. Stoopnagle and Budd
CFRB KDYL KFH KFJF KFPY
KGB KHJ KMBC KMOX KOH KOL
KRDL KSCJ KTS KVI KVOR WABC
WACO WADC WBRW WBT WCAH
WCAO WCAU WDAE WDBO WDRW
WEAN WFBL WGR WHEC WHP
WIBW WISN WJAS WKBN WKRC
WLAP WLBW WLBZ WMT WNAC
WNAX WOKO WORC WPG WQAM
WREC WSPD WTAQ WTAR WTOC
WWVA WXYZ
R — Civic Concerts
CKGW KSD WCAE WCSH WDAF
WEAF WFBR WFI WHO WIOD
WIS WJAR WJAX WMAQ WOC
WOW WRC WTIC WWJ WWNC
B — Danger Fighters
KDKA KFI KFSD KFJR KGO KGW
KHQ KOA KOIL KOMO KPRC
KSL KSTP KTAR KWK WAPI
WBAF WCKY WDAY WEBC 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 KRDL KSCJ KTS KVOR
WABC WADC WBRW WBT WCAH
WCAO WCAU WCCO WDAE WDBO
WEAN WFBL WGR WHEC WHP
WIBW WISN WJAS WKBN WLAP
WLBW WLBZ WMAL WMT WNAC
WNAX WOKO WORC WPG WQAM
WREC WTAQ WTAR WTOC WWVA
R — Radio in Education
KFI KFSD KFJR KGHL KGIR KGO
KHQ KHQ KOA KOMO KPRC KSD
KSL KSTP KTAR KYW WBN
WCAE WCSH WDAF WDAY WFAF
WEBC 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
CFCF CKGW KDKA KWK WBAL
WBZA WGAR WHAM WJR WJZ
WLW WMAQ WREN
E-8:45 p.m., C-7:45, M-6:45, P-5:45
C — Vaughn de Leath
KMOX WABC WADC WBBM WCAO
WCAU WDRW WEAN WFBL WGR
WJAS WNAC WOKO WSPD WXYZ
E-9:00 p.m., C-8:00, M-7:00, P-6:00
C — Carborundum Band
KMOX WAAB WABC WCAU WGN
WHK WKBW WXYZ
R — Goodyear, Pryor's Band
KFI KFSD KFJR KGHL KGIR KGO
KHQ KHQ KOA KOMO KPRC KSD
KSL KSTP KTAR KYW WAPI
WBAF WBN WCAE WCSH WDAF
WDAY WFAF WEBC 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 — Chicago Civic Opera
CFCF CKGW KWK WCKY WGAR
WHAM WJZ WLS WREN
E-9:30 p.m., C-8:30, M-7:30, P-6:30
C — Smith Bros., Trade and Mark
KFH KFJF KLZ KMBC WAAB
WABC WADC WCAO WCAU WCCO
WDRW WEAN WGN WGST WHEC
WHK WHP WJAS WKBW WKRC
WLAP WLBZ WMT WOWO WSPD
R — Club Valspar
CFCF CKGW KSD WBN WCAE
WCSH WDAF WFAF WEEI WFBR
WFI WGY WHO WJAR WMAQ
WOC WOW WRC WSAI WTAG
WTAM WTIC WWJ
B — First Nighter
KDKA KFI KFSD KFJR KGO KGW
KHQ KOA KOIL KOMO KSL KSTP
KTAR KWK KYW WBAL WBZA
WDAY WEBC WGAR WHAM WJR
WJZ WLW WREN WTMJ
E-9:45 p.m., C-8:45, M-7:45, P-6:45
C — Art Jarrett, Freddie Rich, Orchestra
CFRB KDYL KFH KFJF KFPY
KGB KLZ KMBC KMOX KOH
KSCJ KTRH KTS KVI KVOR
WAAB WABC WACO WADC WBRW
WBT WCAH WCAO WCAU WDAE
WDBO WDRW WFBL WGR WHEC
WHP WIBW WISN WJAS WKBN
WKRC WLAP WLBW WLBZ WMAL
WMT WNAC WOKO WORC WPG WQAM
WREC WSPD WTAQ WTAR WTOC
WWVA WXYZ
E-10:00 p.m., C-9:00, M-8:00, P-7:00
C — Chicago Variety Program
CFRB KDYL KFH KFJF KFPY
KGB KHJ KLZ KMBC KMOX
KOH KOL KSCJ KVOR WAAB
WABC WACO WADC WBRW WBT
WCAH WCAO WCAU WCCO WDAE
WDBO WDRW WEAN WFBL WHEC
WHP WIBW WISN WJAS WKBN
WKBW WLAP WLBZ WMAL WMT
WNAX WOKO WORC WPG WREC
WTAQ WTAR WTOC WWVA WXYZ
R — Lucky Strike, See Tuesday
B — Russ Columbo, See Tuesday
E-10:30 p.m., C-9:30, M-8:30, P-7:30
C — Music Satisfies, See Monday
B — Clara, Lu and Em, See Tuesday
E-10:45 p.m., C-9:45, M-8:45, P-7:45
C — Jack Miller, See Tuesday
B — Twenty Fingers of Harmony
CFCF KDKA WBAL WHAM WJR
WJZ WREN
E-11:00 p.m., C-10:00, M-9:00, P-8:00
C — Bing Crosby, See Monday
R — Marion Harris, See Tuesday
B — Amos 'n' Andy, See Monday
E-11:15 p.m., C-10:15, M-9:15, P-8:15
C — Don Redman, Orchestra
CFRB KDYL KFJF KFPY KFRC
KLZ KMBC KOH KSCJ KVOR
WAAB WABC WACO WADC WBRW
WBT WCAO WCAU WDAE WDBO
WDRW WEAN WFBL WHEC WHP
WIBW WISN WKBN WKBW WKRC
WLAP WLBW WLBZ WMT WNAX
WOKO WORC WQAM WREC WSPD
WTAR WTOC WWVA WXYZ
R — Jesse Crawford, See Tuesday
R — Alice Joy, See Monday
E-11:30 p.m., C-10:30, M-9:30, P-8:30
C — Leon Belasco and Orchestra
KFJF KMBC WAAB WABC WBCM
WBRW WBT WCAO WCAU WDAE
WDBO WDRW WEAN WLBZ WMAL
WORC WQAM WREC WTAR WTOC
C — Morton Downey, See Monday
R — Rudy Vallee, Connecticut Yankees
KEX KGA KJR KPO KPRC KSD
WBN WCAE WCKY WFAF WEEI
WFI WGY WHO WIBA WKY WOC
WRC WTIC WWJ

Saturday—Continued

E-11:45 p.m., C-10:45, M-9:45, P-8:45
 C — **Enric Madriguera**, See Monday
 E-12:00 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 WKBW
 WKRC WLAP WLBW 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 KFJR KGA KGHL KJR KOA
 KPO KPO KPRC KSTP WAPI WCHS
 WDAF WDAY WFAF WENR WFBR
 WFI WFLA WGY WHAS WHO
 WIOD WJAR WKY WMC WOC
 WPTF WRC WSM WSMB WTAM
 WTMJ 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
 WDRC WFBL WGR WHEC WHK
 WHP WIBW WISN WJAS WKBN
 WLAP WLBW WLBZ WMAL WMT
 WOKO WORC WPG WQAM WSPD
 WTAQ WTR WWVA
 R — **Emerald Isle Tales**
 WCHS WDAF WFAF WFBR WGY
 WHO WJAR WLIT WOC WRC WTAG
 WTAM WTMJ WWJ
 B — **Balkan Mountain Men**
 KDKA KEX KFJR KGA KJR KOA
 KPO KPRC KSL WBAL WBZA
 WCKY WDAY WGAR WHAM WHAS
 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
 WAAB WABC WADC WBRW WCAH
 WCAO WCAU WCCO WDAE WDBO
 WFBL WGR WHEC WHP WIBW
 WISN WKBN WLAP WLBW WLBZ
 WMAL WMT WOKO WORC WOWO
 WPG WQAM WSPD WTAQ WTR
 WTOC WWVA
 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
 KRDL KSCJ KTRH KVI WAAB
 WABC WBT WCAH WCAU WCCO
 WDAE WDBO WDRC WFBL WGR
 WHEC WHP WIBW WJAS WKBN
 WLAP WLBW WLBZ WMAL WMT
 WOKO WPG WQAM WREC WTAQ
 WTR WTOC WWVA WXYZ
 R — **Troika Bells**
 CKGW WCAE WDAF WFAF WFBR
 WFI WJAR WRC WTAG WTMJ WWJ
 B — **Sentinels of Republic**
 KDKA KFJR KGO KOA KOMO
 KPRC KSL KSTP WAPI WDAY
 WEBC WIBA WIOD WJAX WJR
 WJZ WRC WSM
 E-1:15 p.m., C-12:15, M-11:15, P-10:15
 B — **Symphonic**, **Walter Damrosch**
 KDKA KFI KFSB KFJR KGO KGW
 KOA KOMO KPRC KSTP KTAR
 KVOO KWK WBAL WBZA WDAY
 WEBC WFAA WFLA WGAR WHAS
 WIBA WIOD WIS WJAX WJDX
 WJR WJZ WLW WMAQ WOAI

WPTF WREN WRVA WSB WSM
 WSMB WWNC
 E-1:30 p.m., C-12:30, M-11:30, P-10:30
 R — **Silver Flute**
 WBEN WCAE WDAF WFAF WFI
 WGY WJAR WRC WTAG WTIC WWJ
 E-1:45 p.m., C-12:45, M-11:45, P-10:45
 C — **Venida Program**, **Willie Robyn**
 KMBC KMOX WAAB WABC WCAO
 WCAU WDRC WFBL WGR WHK
 WJAS WKBN WKRC WMAL
 R — **Old Company's Program**
 CFCE CKGW WBEN WCHS WFAF
 WEEI WFI WGY WJAR WRC WTAG
 E-2:00 p.m., C-1:00, M-12:00, P-11:00
 C — **Pastorale**, **Andre Kostelanetz**
 KDYL KFH KFJF KFPY KFRC
 KGB KLZ KMBC KMOX KOH KOL
 KRDL KSCJ KTRH KVOR WABC
 WACO WADC WBBM WBRW WBT
 WCAO WCAU WCCO WDAE WDBO
 WDRC WEAN WFBL WGR WHEC
 WHK WHP WIBW WISN WJAS
 WKBN WKRC WLAP WLBW WLBZ
 WMAL WMT WNAC WOKO WORC
 WOWO WQAM WTR WTOC WWVA
 E-2:15 p.m., C-1:15, M-12:15, P-11:15
 R — **Sunday Bright Spot**
 CFCE CKGW KFI KFSB KFJR
 KGO KGW KHQ KOA KPRC KSD
 KSL KSTP KTAR KVOO KYW
 WAPI WBEN WCAE WCHS WDAF
 WDAY WFAF 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 WTMJ
 WTMJ WWJ
 B — **Careless Love**, **Negro Life**
 WBAL WCKY WGAR WJZ WREN
 E-3:30 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 WDRC
 WFBL WHEC WHP WIBW WJAS
 WKBN WKBW WKRC WLAP WLBW
 WLBZ WMAL WMT WOKO WORC
 WQAM WREC WTAQ WTR WTOC
 R — **Moonshine and Honeysuckle**
 KSD WCAE WCKY WCHS WDAF
 WFAF WEEI WFBW WGY WJAR
 WMAQ WRC WTAG WTAM WTMJ
 WWJ
 B — **Yeast Foamers**, **Herbie Kay**
 KDKA KFI KFSB KGHL KGIR
 KGW KHQ KOA KOIL KPO KPRC
 KSL KSTP KTAR KTHS KVOO KWK
 KYW WAPI WBAL WBZA WEBC
 WFAA WFLA WGAR WHAM WHAS
 WIOD WIS WJAX WJDX WJR WJZ
 WKY WLW WMC WOAI WPTF
 WREN WRVA WSB WSM WSMB
 WTMJ WWNC
 E-3:00 p.m., C-2:00, M-1:00, P-12:00
 C — **Philharmonic Symphony**
 CFRB KDYL KFH KFJF KFPY
 KFRC KGB KHJ KLZ KMBC KOH
 KOL KSCJ KTRH KVI KVOR WAAB
 WABC WACO WADC WBRW WBT
 WCAH WCAO WCCO WDAE WDBO
 WFAA WFBL WHEC WHK WIBW
 WIP WISN WJAS WKBN WKBW
 WKRC WLAP WLBW WLBZ WMAL
 WMT WOKO WQAM WREC WSPD
 WTAQ WTR WTOC WWVA WXYZ
 R — **Wayne King**, **Orchestra**
 WCAE WFAF WEEI WFBR WJAR
 WTAG WTAM WTMJ
 B — **National Youth Conference**
 KFSB KFJR KGHL KGIR KGO

KGW KHQ KOA KOMO KPRC KTAR
 KTHS KVOO KWK WAPI WBAL
 WCKY WFLA WGAR WIBA WIOD
 WIS WJAX WJDX WJZ WKY WMAQ
 WMC WOAI WPTF WREN WRVA
 WSB WSMB WWNC
 E-4:00 p.m., C-3:00, M-2:00, P-1:00
 B — **Travelogue**
 CFCE 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**
 KFSB KFJR KGO KGW KHQ
 KOA KOMO KPRC KSD KSL KSTP
 KTHS KVOO KYW WBEN WCAE
 WCHS WDAF WDAY WFAF WEBC
 WEEI WFBR WFLA WGY WHAS
 WIOD WIS WJAR WJAX WJDX
 WKY WMC WOAI WOW WPTF
 WRC WRVA WSAI WSB WSM
 WSMB WTAG WTAM WTMJ WWJ
 B — **Musical Showmen**
 CKGW KDKA KOIL KWK WBAL
 WHAM WJZ WMAQ
 E-5:00 p.m., C-4:00, M-3:00, P-2:00
 C — **Real Folks**
 KFJF KMBC KRDL KTRH KTSa
 WABC WADC WBBM WBT WCAO
 WCAU WHK WJAS WKRC WMAL
 WOWO WSPD WXYZ WJZ
 B — **National Vespers**, **Dr. Fosdick**
 CKGW KFI KFSB KFJR KGIR
 KGO KGW KHQ KOMO KPRC
 KSTP KTHS KVOO 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 WEAN WFBL WGR WHEC
 WHP WOKO WORC
 R — **General Electric Circle**
 KSD WBEN WCAE WCHS WDAF
 WFAF WFBR WGY WHO WJAR
 WLIT WLS WOC WRC WSAI WTAG
 WTAM WTMJ WWJ
 B — **Simoniz Guardsmen**
 KOIL KWK KYW WBAL WBZA
 WGAR WHAM WJZ WLW WREN
 E-6:00 p.m., C-5:00, M-4:00, P-3:00
 C — **Grand Opera**, **Howard Barlow**
 WBCM WBRC WBT WDAE WDBO
 WIBW WQAM WREC WTR WTOC
 C — **Chicago Knights**
 KFJF KFPY KFRC KGB KHJ KLZ
 KMBC KOH KOL KRDL KSCJ KVI
 KVOR WACO WBCM WCCO WIBW
 WISN WKRC WLAP WMT WWVA
 WBBM
 R — **Catholic Hour**
 CFCE CKGW KPRC KSD KSTP
 KTHS KVOO WBEN WCAE WCHS
 WDAF WFAF WEBC WFAA WFLA
 WGY WHAS WHO WIOD WJAR
 WJDX WKY WLIT WLS WMC WOAI
 WOC WOW WRC WSAI WSB WSMB
 WTAG WTAM WTMJ 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 — **Quiet Harmonies**, **Vincent Sorey**
 KDYL KFH KFPY KFRC KLZ
 KMBC KSCJ KVOR WAAB WABC
 WACO WADC WBRW WBT WCAU
 WDAE WDBO WEAN WFBL WHEC
 WHP WIBW WJAS WKBW WKRC
 WLAC WLAP WLBZ WMAL WMT
 WOKO WQAM WREC WSPD WTR
 WTOC WWVA WXYZ

C — Barnsdall Musical Memories
KFH KFJF KMBC KMOX KSCJ
WCCO WGL WGN WIBW WISN
WMT WSPD WXYZ

R — Through the Opera Glass
KGHL WBN WCAE WCSH WEAF
WEEL WENR WFLA WGY WIOD
WJAR WJAX WOW WRC WRVA
WSM WTAG WTIC WWNC

E-7:00 p.m., C-6:00, M-5:00, P-4:00
C — World's Business, Dr. Klein
KDYL KFH KFJF KFPY KFRC
KGB KHJ KLZ KMBC KOL KRLD
KSCJ KTRH KVI KFOR WABC
WACO WADC WBT WCAH WDAE
WDBO WFBL WGR WHEC WHP
WISN WJAS WKBN WKRC WLP
WLBW WMAL WMT WNAX WOKO
WPG WQAM WREC WTAR WTOC

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

E-7:15 p.m., C-6:15, M-5:15, P-4:15
C — The Sylvanians
KMBC KMOX WABC WBRC WCAO
WCAU WCCO WGL WGN WGR
WJAS WKRC WNAC WOKO WXYZ

B — Levitski and Sciaretti, Piano Duo
KOIL KWK WHAM WIS WJZ WLS
WREN WRVA 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 WKBW WKRC WMAL WNAC
WNAX WREC WXYZ

R — Iodent Club
KSD WBN WCAE WCSH WDAF
WEAF WFBW WGY WHO WJAR
WLIT WLS WOC WRC WSAI WTAG
WTAM WTIC WWJ

B — Three Bakers
CFCE KDKA KFI KFSD KFYR
KGO KGW KHQ KOA KOIL KOMO
KPRC KSL KSTP KTAR KVOO
KWK KYW WBAL WBZA WDAY
WEBC WFAA WFLA WGAR WHAM
WHAS WIBA WIOD WJDX WJR
WJZ WKY WLW WMC WOAI WREN
WRVA WSB WSM WSMB WTMJ
E-8:00 p.m., C-7:00, M-6:00, P-5:00

C — Devils, Drugs and Doctors
KDYL KFPY KFRC KHJ KLZ
MKBC KMOX KOIN KOL KSCJ
KTSA WABC WADC WBRC WCAO
WCAU WCCO WDR WDSU WEAN
WFBL WFBM WGN WGR WGST
WHEC WHK WIBW WISN WJAS
WKRC WLAC WMAL WNAC WREC
WRR WSPD WXYZ

R — Chase & Sanborn
CFCE CKGW KPRC KSD KSTP
KTHS KVOO WBN WCAE WCSH
WDAF WEAF WEBC WFAA WFLA
WGY WHAS WHO WIOD WJAR
WJDX WKY WLIT WLS WMC
WOAI WOC WOW WRC WSAI
WSB WSMB WTAG WTAM WTIC
WTMJ WWJ

B — Enna Jettick Melodies
CFCE CKGW KDKA KFI KFSD
KFYR KGHL KGIR KGO KGW
KHQ KOA KOIL KOMO KPRC
KSL KSTP KTAR KTHS KVOO
KWK KYW WBAL WBZA WDAY
WEBC WFAA WFLA WGAR WHAM
WHAS WIBA WIOD WIS 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
C — Fisk University Chorus
KDYL KFH KFJF KFPY KOH
KOL KSCJ KTRH KTSA KFOR
WABC WACO WBRC WCAH WCAO
WCAU WDAE WDBO WDR WGR
WGR WHEC WHP WIBW WISN
WJAS WKBN WLP WLW WLBZ
WMAL WMT WNAC WOKO WRC
WQAM WREC WTAR WWVA WXYZ

B — Collier's Radio Hour
KDKA KFI KGO KGW KHQ KOA
KOMO KSL KWK KYW WBAL
WBA WGAR WHAM WJR WJZ
WLW WREN

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 WDR WGR WHEC WHP
WGR WHK WJAS WKRC WMAL
WNAC WOW WSPD WXYZ

C — Col. Stoopnagle and Budd
WBCM WDAE WDBO WDR WQAM
WREC WTAR WTOC

E-9:00 p.m., C-8:00, M-7:00, P-6:00
C — Roxy Theatre Orchestra
CFRB KDYL KFH KFJF KFPY
KFRC KGB KHJ KLZ KMBC KMOX
KOH KOL KTRH KTSA KFOR
WABC WADC WBRC WBT WCAH
WCAO WCCO WDAE WDBO WDR
WEAN WFAN WFBL WGR WHEC
WHK WHP WIBW WIP WISN
WJAS WKBN WKRC WLP WLBW
WLBZ WMAL WMT WNAC WNAX
WOKO WRC WOW WQAM WREC
WSPD WTAR WTOC WWVA WXYZ

R — David Lawrence, "Our Governm't"
KSD KTHS KVOO WCSH WEAF
WENR WFAA WFBW WFI WFLA
WGY WHO WIOD WIS WJAR WJDX
WAPI WOC WOW WRC WSAI WWNC

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 WBN
WCAE WCSH WDAY WEAF WEBC
WENR WFBW 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 KFRC KHJ
KLZ KMOX KOIN KOL WABC
WADC WCAO WCAU WDR WGR
WFBL WGN WGR WHK WJAS
WKRC WMAL WNAC WOW WSPD
WXYZ KMBC

C — Ann Leaf at the Organ
WBCM WBRC 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 WBN WCAE WCSH
WDAF WDAY WEAF WEBC WENR
WFBW 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 — Kellogg Slumber Music

KDKA KWK KYW WBAL WBZA
WHAM WJR WJZ WLW WREN
E-10:00 p.m., C-9:00, M-8:00, P-7:00

C — Edna Wallace Hopper
KDYL KFH KFJF KLZ KMBC
KMOX KRLD KTSA WAAB WABC
WADC WBBM WBRC WCAO WCAU
WCCO WDAE WDSU WFBL WFBM
WGST WHEC WHK WISN WJAS
WKBW WKRC WLP WLBZ WMAL
WOKO WRC WOW WREC 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

E-10:30 p.m., C-9:30, M-8:30, P-7:30
C — Ernest Hutcheson, Pianist
CFRB KDYL KFH KFJF KMBC
KMOX KOH KTRH KFOR WABC
WADC WBT WCAH WCAO WCAU
WDAE WDBO WDR WGR WHEC
WHP WIBW WISN WJAS
WKBN WKBW WLP WLBZ
WMAL WMT WNAC WOKO WRC
WPG WQAM WREC WSPD WTAR
WTOC WWVA WXYZ

E-10:45 p.m., C-9:45, M-8:45, P-7:45
R — Sunday at Seth Parker's
KSTP KYW WEAF WGY WIS WJAR
WSAI WSMB

B — Land of Wonder and Fear
KDKA KWK WBAL WENR WGAR
WHAM WJZ WREN

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C — The Gauchos, Vincent Sorey
KFH KFJF KMOX KOH KOL KTRH
WAAB WABC WADC WBRC WBT
WCAH WCAO WCAU WDAE WDBO
WDR WGR WHEC WHP WIBW
WISN WKBN WKRC WLP WLBW
WLBZ WMAL WMT WNAC WOKO
WRC WSPD WTAR WTOC WWVA
WXYZ

E-11:15 p.m., C-10:15, M-9:15, P-8:15
R — Ralph Kirbery, Dream Singer
WCAE WDAF WEAF WENR WFBW
WFI WGY WHO WOC WOW WWJ

B — South Sea Islanders
KDKA KFYR KOIL KPRC KTHS
WBAL WGAR WJR WJZ WKY
WMC WRC WREN

E-11:30 p.m., C-10:30, M-9:30, P-8:30
C — California Melodies
KDYL KFH KFJF KGB KHJ KOH
KOL KTRH WABC WADC WBRC
WBT WCAH WCAO WCAU WCCO
WDAE WDBO WEAN WFBL WGR
WHEC WHK WHP WIBW WISN
WKBN WKRC WLP WLBW WLBZ
WMAL WMT WNAC WNAX WOKO
WPG WQAM WREC WSPD WTAR
WTOC WWVA WXYZ

R — Jesse Crawford, Organ
WEAF WGY WOW WRC WTAM

B — The Three Doctors
KDKA KPRC KSTP KWK WBAL
WEBC WIOD WJR WJZ WKY
WMC WREN WSB

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 WFBL WGR WHP
WIBW WISN WKBN WKRC WLP
WLBW WMT WNAC WNAX WOKO
WSPD WTAR

E 12:30 a.m., C-11:30, M-10:30, P-9:30
C — Ann Leaf at the Organ
KFH KHJ KMBC KOH KTRH
WABC WCAU WCCO WEAN WFBL
WGR WHP WIBW WISN WKBN
WLP WLBW WNAC WNAX WOKO

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 (---) have no meaning.

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

540 kilocycles 555.6 meters

CKX † 500 --- Brandon, Manitoba

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Manitoba Telephone System

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	---	Guatemala
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	D	Pierre, S. D.
KSAC	†	500	2+	Manhattan, Kans.
IBW	*	1000	2+C	Topeka, Kansas
WOBV	*	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.
WOBV, Inc.
WSAZ, Inc.
Telegram Publishing Co.

INDEX BY FREQUENCIES AND DIAL NUMBERS

590 kilocycles 508.2 meters

CMW	--	1400	588	Havana, Cuba
KHQ	--	1000	+N	Spokane, Wash.
WCAJ	*--	500	1	Lincoln, Nebr.
WEEL	†	1000	R	Boston, Mass.
WKZO	†	1000	D	Kalamazoo, Mich.
WOW	*	1000	1N	Omaha, Nebr.

KCYS.
670
MTRS.
447.5
DIAL

600 kilocycles 499.7 meters

CNRO	†	600	---	Ottawa, Ont.
KFSD	*	500	+N	San Diego, Cal.
WCAC	†	250	2+	Storrs, Conn.
WCAO	†	250	C	Baltimore, Md.
WICC	*	250	2+	Bridgeport, Conn.
WMT	*	500	C	Waterloo, Iowa
WREC	*	500	+C	Memphis, Tenn.

610 kilocycles 491.5 meters

KFRC	*	1000	C	San Francisco, Cal.
WDAF	*	1000	N	Kansas City, Mo.
WFAN	*	500	Ca	Philadelphia, Pa.
WIP	*	500	Ca	Philadelphia, Pa.
WJAY	†	500	D	Cleveland, Ohio

620 kilocycles 483.6 meters

CMCJ	--	250	---	Havana, Cuba
KGW	--	1000	+N	Portland, Ore.
KTAR	*	500	+N	Phoenix, Arizona
KZRM	--	50000	618.5	Manila, P. I.
WFLA	*	1000	+Na	Clearwater, Fla.
WLBZ	†	500	C	Bangor, Maine
WSUN	†	1000	+Na	St. Petersburg, Fla.
WTMJ	*	1000	+N	Milwaukee, Wis.

630 kilocycles 475.9 meters

CFCT	*	50	---	Victoria, B. C.
CHCS	--	500	+aZ	Hamilton, Ont.
CJGX	--	500	---	Yorkton, Sask.
CKOC	*	500	+aZ	Hamilton, Ont.
CKTB	--	500	+aZ	St. Catharines, Ont.
CNRA	*	500	---	Moncton, N. B.
KFRU	*	500	1	Columbia, Mo.
WGBF	†	500	1	Evansville, Ind.
WMAL	*	250	+C	Washington, D. C.
WOS	*	500	1	Jefferson City, Mo.
XETF	--	500	---	Veracruz, Ver.
---	---	500	+	Windsor, Ont.

640 kilocycles 468.5 meters

CHRC	--	100	645a	Quebec, Que.
CKCI	†	100	645a	Quebec, Que.
CKCR	--	100	645	Waterloo, Ont.
CMHJ	--	40	645	Cienfuegos, Cuba
KFI	*	50000	N	Los Angeles, Cal.
WAIU	*	500	C Dn	Columbus, Ohio
WOI	*	5000	D	Ames, Iowa

650 kilocycles 461.3 meters

KPCB	*	100	Dn	Seattle, Wash.
WSM	*	5000	NX	Nashville, Tenn.

660 kilocycles 454.3 meters

CHWK	†	100	665	Chilliwack, B. C.
CJRM	†	500	665	Moose Jaw, Sask.
CJRW	†	500	665	Fleming, Sask.
CMCO	--	250	---	Havana, Cuba
CMDC	--	500	---	Havana, Cuba
RUS	--	500	664	Salvador
WAAW	*	500	D	Omaha, Nebr.
WEAF	†	50000	R□	New York City
WTIC	*	5000	R□	Hartford, Conn.

670 kilocycles 447.5 meters

HIX	--	1000	669	Santo Domingo
VOWR	--	500	675	St. Johns, N. F.
WMAQ	*	5000	N	Chicago, Ill.

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

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.
CJCJ	*	500	1	Calgary, Alta.
CNRX	*	4000	a	Toronto, Ont.
NAA	--	1000	---	Arlington, Va.
VAS	†	2000	685	Glace Bay, N. S.
XET	†	500	---	Monterrey, Mexico

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

700 kilocycles 428.3 meters

WLW	*	50000	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.
CKAC	*	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

KMMJ	*	1000	Dn	Clay Center, Nebr.
WSB	--	5000	NX	Atlanta, Ga.

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The M. M. Johnson Co.
Atlanta Journal Co.

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	1X	Lincoln, Nebr.
WBBM	*	25000	1Ca	Chicago, Ill.
WJBT	--	25000	1Sa	Chicago, Ill.

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KFAB Broadcasting Co.
WBBM Broadcasting Corp.
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

INDEX BY FREQUENCIES AND DIAL NUMBERS

790 kilocycles 379.5 meters

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

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

800 kilocycles 374.8 meters

WBAP	†	10000	IXN	Fort Worth, Texas
WFAA	†	50000	1N	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.
WPCH	*	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.

KCYS.

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	DCP	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+	Sherandoah, Iowa
KUSD	*	500	2	Vermillion, S. D.
WGST	*	250	+C	Atlanta, Ga.
WILL	†	250	2+	Urbana, Ill.
WJAR	*	500	+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	---	Pocatelli, Idaho
TIC	---	50	---	San Jose, Costa Rica
WBEN	*	1000	R	Buffalo, N. Y.
WJAX	*	1000	N	Jacksonville, Fla.
WKY	*	1000	N	Oklahoma City
WLBL	†	2000	D	Ellis, 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.
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.
CJCA	*	500	---	Edmonton, Alta.
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+	Sherandoah, 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 The Edmonton Journal, Ltd. 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	N	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. 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.		

INDEX BY FREQUENCIES AND DIAL NUMBERS

KGHL	--	1000	N	Billings, Mont.
KMBC	*	1000	C	Kansas City, Mo.
TI4NRH	--	75	948	Heredia, C. R.
VONA	--	30		St. John's, N. F.
WRC	†	500	N	Washington, D. C.

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

960 kilocycles 312.3 meters

CHCK	--	100		Charlottetown, P. E. I.
CI4WC	*	500	3	Regina, Sask.
CJBR	--	500	3a	Regina, Sask.
CKCK	†	500	3a	Regina, Sask.
CKNC	*	500	2	Toronto, Ont.
CMBC	--	150	965	Havana, Cuba
CMBD	--	150	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

CMBT	--	500		Havana, Cuba
CMGF	--	50	977	Matanzas, Cuba
KJR	*	5000	B	Seattle, Wash.
WCFL	--	1500	R Dn	Chicago, Ill.

Emilio Perera
 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.

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

990 kilocycles 302.8 meters

WBZ	†	25000	B□X	Springfield, Mass.
WBZA	†	25000	B□X	Boston, 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.
WGEO	--	1000	D	York, Pa.
WHO	*	5000	N□X	Des Moines, Iowa
WOC	*	5000	N□X	Davenport, Iowa
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.
 York Broadcasting Co.
 Central Broadcasting Co.
 Central 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
CMBZ	--	150		Havana, Cuba
KGGF	†	500	2	S. Coffeyville, Okla.
KOW	*	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
 Manuel 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.
XEFD	--	300		Tiajuana, B. C.

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

KCY.S.
 1020
 MTRS.
 293.9
 DIAL

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

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

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

1040 kilocycles 288.3 meters

KRLD	*	10000	Ca	Dallas, Texas
KTHS	†	10000	Na	Hot Springs, Ark.
WKAR	*	1000	D	East Lansing, Mich.

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.

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.

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

1070 kilocycles 280.2 meters

CMBC	--	150	---	Havana, Cuba
CMCB	--	150	---	Havana, Cuba
KJBS	*	100	D	San Francisco, Cal.
WCAZ	*	50	D	Carthage, Ill.
WDZ	†	100	D	Tuscola, Ill.
WTAM	*	50000	R	Cleveland, Ohio

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

1080 kilocycles 277.6 meters

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

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.

E. F. Peffer 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.
WRVA	*	5000	N	Richmond, Va.

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.
KMCS	*	500	3Y	Inglewood, Cal.
KRSC	†	50	D	Seattle, Wash.
KTRH	*	500	2C	Houston, Texas
WDBO	*	500	+C	Orlando, Fla.
WDEL	†	250	+X	Wilmington, Del.
WHAD	*	250	1	Milwaukee, Wis.
WISN	†	250	1C	Milwaukee, Wis.
WTAW	*	500	2	College Station, Texas

Star Pub. & Ptg. Co. N. S. Dalgleish & 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	C Dn	Mooseheart, Ill.
WOV	--	1000	D	New York City
XEH	--	1000	1132	Monterrey, N. L.

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

INDEX BY FREQUENCIES AND DIAL NUMBERS

1140 kilocycles 263.0 meters

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

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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.

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Andres Martinez
Jose Fernandez
Stromberg-Carlson Tel. Mfg. Co.

1160 kilocycles 258.5 meters

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

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Main Auto Supply Co.
West Virginia Broadcasting Corp.

1170 kilocycles 256.3 meters

WCAU	*	10000	CX	Philadelphia, Pa.
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Universal Broadcasting Co.

1180 kilocycles 254.1 meters

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

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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
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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	Paragould, Ark.
KERN	--	100	---	Bakersfield, Cal.
KFJB	†	100	+	Marshalltown, Iowa
KFWF	--	100	5+	St. Louis, Mo.
KGDE	*	100	+	Fergus Falls, Minn.
KGDY	--	100	---	Huron, S. D.
KGEK	--	100	9	Yuma, Colo.
KGEW	†	100	9	Fort Morgan, Colo.
KGfJ	--	100	---	Los Angeles, Cal.
KGHI	*	100	---	Little Rock, Ark.
KGY	†	10	+	Lacey, 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	---	Arkansas City, Kas.
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	4D	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	4	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
Santa Maria Radio
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
St. Marten's College
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
First Baptist Church
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 Brdcastg. 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	---	Casper, Wyo.
KDLR	+	100	---	Devil's Lake, N. D.
KFOR	+	100	+	Lincoln, Nebr.
KFVS	*	100	6	Cape Girardeau, Mo.
KFXM	--	100	9	San Bernardino, Cal.
KGCR	+	100	---	Watertown, S. D.
KGNO	*	100	---	Dodge City, Kansas
KMJ	*	100	---	Fresno, Cal.
KPPC	§	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	7	Richmond, Va.
WMRJ	*	100	3	Jamaica, N. Y.
WOCL	*	50	---	Jamestown, N. Y.
WOMT	*	100	---	Manitowoc, Wis.
WPAW	*	100	5	Pawtucket, R. I.
WPRO	*	100	5	Providence, R. I.
WQDX	*	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

Western Ontario "Better Radio" Club
James S. Neill & Sons, Ltd.
G. C. Chandler
R. L. MacAdam
Donald Lewis Hathaway
KDLR, 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. Messer
Westchester Broadcasting Corp.
Clinton R. White
First Trust & Savings Bank
Emil Denemark, Inc.
Harry H. Carman
Great Southern Land Co., Inc.
Bearsley 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
Shartenburg & Robinson Co.
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

Callejas-Coscolluela
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	2	Boston, Mass.
WFBM	*	1000	1C	Indianapolis, Ind.
WNAC	*	1000	2C	Boston, Mass.
WPSC	*	500	D	State College, Pa.
WSBT	+	500	1	South Bend, Ind.
XETQ	--	100	---	Mexico, Mex.

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
WACO	+	1000	1C	Waco, Texas
WXYZ	+	1000	C	Detroit, Mich.

Francisco Martinez
Mandan Radio Assn.
John B. Cooley
S. A. T. Broadcast Co.
Central Texas Broadcasting Co., Inc.
Kunsky-Trendle Broadcasting Corp.

INDEX BY FREQUENCIES AND DIAL NUMBERS

KFUP	--	100	8	Denver, Colo.	Fitzsimmons General Hospital
KFXJ	†	100	8	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
KGFV	†	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
WEBR	*	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.
WFDF	*	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.
WKAJ	*	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.
WRAP	*	100	5X	Reading, Pa.	Reading Broadcasting Co.
WROL	†	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

1320 kilocycles 227.1 meters

KGHF	†	250	+	Pueblo, Colo.	
KGMB	†	250	---	Honolulu, Hawaii	C. P. Ritchie & J. E. Finch
KID	*	250	1+	Idaho Falls, Idaho	Honolulu Broadcasting Co., Ltd.
KTFI	--	250	1+	Twin Falls, Idaho	KID Broadcasting Co.
WADC	†	1000	C	Akron, Ohio	Radio Broadcasting Corp.
WSMB	*	500	N	New Orleans, La.	Allen T. Simmons



C. P. Ritchie & J. E. Finch
 Honolulu Broadcasting Co., Ltd.
 KID Broadcasting Co.
 Radio Broadcasting Corp.
 Allen T. Simmons
 WSMB, Inc.

1330 kilocycles 225.4 meters

KGB	*	500	C	San Diego, Cal.	Don Lee, Inc.
KSCJ	*	1000	1+C	Sioux City, Iowa	Perkins Bros. Co.
WDRG	*	500	C	Hartford, Conn.	WDRG, Inc.
WSAI	*	500	R+	Cincinnati, Ohio	Crosley Radio Corp., Lessee
WTAQ	*	1000	1C	Eau Claire, Wis.	Gillette Rubber Co.



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	Jose Justo Moran
CMCR	--	150	1345	Havana, Cuba	Aurelio Hernandez
CMCY	--	50	1345	Havana, Cuba	M. D. Aufran
KFPW	†	50	D	Fort Smith, Ark.	Southwestern Hotel Co.
KFPY	*	1000	C	Spokane, Wash.	Symons Broadcasting Co.
WCOA	*	500	---	Pensacola, Fla.	City of Pensacola
WSPD	*	1000	C	Toledo, Ohio	Toledo Broadcasting Co.



Jose Justo Moran
 Aurelio Hernandez
 M. D. Aufran
 Southwestern Hotel Co.
 Symons Broadcasting Co.
 City of Pensacola
 Toledo Broadcasting Co.

1350 kilocycles 222.1 meters

KIDO	†	1000	---	Boise, Idaho	Boise Broadcasting Station
KWK	*	1000	B	St. Louis, Mo.	Thomas Patrick, Inc.
WAWZ	*	250	1	Zarephath, N. J.	Pillar of Fire
WBNX	--	250	1	New York City	Standard Cahill Co., Inc.
WCDA	--	250	1	New York City	Italian Educ. Broadcasting Co., Inc.
WEHC	*	500	D	Emory, Va.	Emory & Henry College
WMSG	--	250	1	New York City	Madison Sq. Garden Brdctg. Corp.



Boise Broadcasting Station
 Thomas Patrick, Inc.
 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.
XEG	---	100	---	Mexico, Mex.

--	--	--

Consolidated Broadcasting Corp.
 KGIR, Inc.
 Lewis Burk
 Onondaga Radio Broadcasting Corp.
 Oak Leaves Broadcasting Station, Inc.
 Johnson-Kennedy Radio Corp.
 Delta Broadcasting Co., Inc.
 Miguel Yarza

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.
KFJI	†	100	YZ	Astoria, Ore.
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	---	Raton, N. M.
KGKL	†	100	---	San Angelo, Texas
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.
WPOE	†	100	---	Patchogue, N. Y.
WQDM	†	100	D	St. Albans, Vt.
WRAK	*	100	---	Williamsport, Pa.
WRAM	*	100	---	Wilmington, N. C.
WRDO	§	100	CP	Augusta, Maine
WRJN	---	100	---	Racine, Wis.
WSVS	*	50	---	Buffalo, N. Y.

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Oscar S. Mechoso
 Genaro Sebater
 Alberto Alvarez
 United Fruit Co.
 Enid Radiophone Co.
 Leese Bros.
 KFJI Broadcasters, Inc.
 University of North Dakota
 Estate of H. C. Meachem
 George Roy Clough
 Tucson Motor Service Co.
 Mitchell Broadcasting Corp.
 Oklahoma Broadcasting Co., Inc.
 KGFL, Inc.
 KGKL, Inc.
 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.
 WELK 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.
 Nassau Broadcasting Corp.
 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
WKBH	*	1000	1C	La Crosse, Wis.
WSMK	*	200	2	Dayton, Ohio
XETB	---	125	---	Torreón, Coah.

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Feliciano Isaac
 The Bee, Inc.
 KQV Broadcasting Co.
 Iowa Broadcasting Co.
 WKBH, 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	---	Phoenix, Arizona
KUOA	†	1000	1	Fayetteville, Ark.
WHK	*	1000	C	Cleveland, Ohio

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Arkansas Broadcasting Co.
 Nielson 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

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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	Martinez-Madico
KOCW	*	250	--	Chickasha, Okla.	Interstate Broadcasting Corp.
WBAA	†	500	1+	Lafayette, Ind.	College for Women
WBBC	*	500	2a	Brooklyn, N. Y.	Purdue University
WCGU	*	500	2a	Brooklyn, N. Y.	Brooklyn Broadcasting Corp.
WCMA	†	500	1	Culver, Ind.	U. S. Broadcasting Corp.
WFOX	--	500	2	Brooklyn, N. Y.	General Broadcasting Corp.
WKBFB	†	500	1	Indianapolis, Ind.	Paramount Broadcasting Co.
WLTH	*	500	2	Brooklyn, N. Y.	Indianapolis Broadcasting, Inc.
XEP	--	200	--	Laredo, Mexico	The Voice of Brooklyn, Inc.
					La Voz Latino

1410 kilocycles 212.6 meters

KFLV	†	500	4	Rockford, Ill.	
KGRS	*	1000	1	Amarillo, Texas	Rockford Broadcasters, Inc.
WAAB	*	500	C	Boston, Mass.	Gish Radio Service
WBCM	*	500	C	Bay City, Mich.	Bay State Broadcasting Corp.
WDAG	*	1000	1	Amarillo, Texas	James E. Davidson
WHBL	*	500	4	Sheboygan, Wis.	National Radio & Broadcasting Corp.
WHIS	†	250	2	Bluefield, W. Va.	Press Pub. Co.
WODX	*	500	3C	Mobile, Ala.	Daily Telegraph
WRBX	*	250	2	Roanoke, Va.	Mobile Broadcasting Corp.
WSFA	†	500	3C	Montgomery, Ala.	Richmond Development Corp.
					Montgomery Broadcasting Co., Inc.

1420 kilocycles 211.1 meters

KABC	†	100	--	San Antonio, Texas	
KBPS	--	100	4	Portland, Ore.	Alamo Broadcasting Co.
KFIZ	*	100	--	Fond du Lac, Wis.	Benson Polytechnic Institute
KFXD	*	100	--	Nampa, Idaho	Reporter Printing Co.
KFXV	--	100	--	Flagstaff, Arizona	Frank E. Hurt
KFYO	†	100	+	Abilene, Texas	Albert H. Scherman
KGFF	†	100	--	Shawnee, Okla.	T. E. Kirksey
KGGC	†	100	5	San Francisco, Cal.	KGFF Broadcasting Co.
KGIW	†	100	--	Trinidad, Colo.	Golden Gate Broadcasting Co.
KGIX	†	100	--	Las Vegas, Nevada	Leonard E. Wilson
KGKX	†	100	--	Sand Point, Idaho	Las Vegas, Nevada, Radio Corp.
KGVO	†	100	D	Missoula, Montana	W. W. Von Cannon, Trustee
KICK	*	100	--	Red Oak, Iowa	Mosby's Incorporated
KORE	*	100	--	Eugene, Ore.	Red Oak Radio Corp.
KXL	*	100	4	Portland, Ore.	Eugene Broadcasting Station
KXYZ	--	100	--	Houston, Texas	KXL Broadcasters, Inc.
WAGM	--	100	CP	Presque Isle, Maine	Harris County Broadcast Co.
WDEV	--	50	D	Waterbury, Vt.	Aroostook Broadcasting Corp.
WEDH	*	100	--	Erie, Pa.	Harry C. Whitehill
WEHS	--	100	2	Cicero, Ill.	Erie Dispatch-Herald
WELL	†	50	X	Battle Creek, Mich.	WEHS, Inc.
WFDW	*	100	--	Anniston, Ala.	Enquirer-News Co.
WHFC	--	100	2	Cicero, Ill.	Raymond G. Hammett
WIAS	†	100	--	Ottumwa, Iowa	WHFC, Inc.
WILM	*	100	--	Wilmington, Del.	Iowa Broadcasting Co.
WJBO	*	100	--	New Orleans, La.	Delaware Broadcasting Co., Inc.
WJMS	--	100	CPD	Ironwood, Mich.	Valdemar Jensen
WKBI	*	100	2	Cicero, Ill.	Marius Johnson
WLBF	†	100	--	Kansas City, Kansas	WKBI, Inc.
WMBC	†	100	+	Detroit, Mich.	WLBF Broadcasting Co.
WMBH	--	100	+	Joplin, Mo.	Michigan Broadcasting Co., Inc.
WPAD	†	100	--	Paducah, Ky.	Edwin Dudley Aber
WSPA	*	100	+	Spartanburg, S. C.	Paducah Broadcasting Co.
WTBO	*	100	+	Cumberland, Md.	Voice of South Carolina
					Associated Broadcasting Corp.

1430 kilocycles 209.7 meters

KECA	†	1000	N	Los Angeles, Cal.	
KGNF	†	500	D	North Platte, Nebr.	Earle C. Anthony, Inc.
WBAK	†	500	1+	Harrisburg, Pa.	Great Plains Broadcasting Co.
WCAH	*	500	C□	Columbus, Ohio	Penna. State Police
WFEA	--	500	CP	Manchester, N. H.	Commercial Radio Service Co.
WHEC	*	500	C□	Rochester, N. Y.	New Hampshire Broadcasting Co.
WHP	*	500	1C+□	Harrisburg, Pa.	Hickson Electric & Radio Corp.
WNBR	*	500	2	Memphis, Tenn.	WHP, The Harrisburg Telegraph
WOKO	†	500	C□	Albany, N. Y.	Memphis Broadcasting Co.
					WOKO, Inc.

1440 kilocycles 208.2 meters

KLS	*	250	D	Oakland, Cal.	Warner Bros.
WBIG	*	500	C	Greensboro, N. C.	North Carolina Broadcasting Co.

INDEX BY FREQUENCIES AND DIAL NUMBERS

WCBA * 250 a
 WMBD * 500 3+C
 WSAN * 250 a
 WTAD † 500 3

Allentown, Pa.
 Peoria Heights, Ill.
 Allentown, Pa.
 Quincy, Ill.

B. B. Musselman
 Peoria Broadcasting Co.
 Allentown Call Publishing Co., Inc.
 Illinois Broadcasting Corp.

1450 kilocycles 206.8 meters

KTBS * 1000 ---
 WBMS * 250 1
 WGAR † 500 B
 WHOM * 500 1
 WKBO * 250 1
 WNJ * 250 1
 WSAR * 250 ---
 WTFI -- 500 ---

Shreveport, La.
 Hackensack, N. J.
 Cleveland, Ohio
 Jersey City, N. J.
 Jersey City, N. J.
 Newark, N. J.
 Fall River, Mass.
 Athens, Ga.

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Tri-State Broadcasting System, Inc.
 WBMS Broadcasting Corp.
 WGAR Broadcasting Co.
 New Jersey Broadcasting Corp.
 Camith Corp.
 Radio Investment Co.
 Doughty & Welch Electric Co., Inc.
 Toccoa Falls Broadcasting Co.

1460 kilocycles 205.4 meters

KSTP * 1000 N
 WJSV * 10000 ---

St. Paul, Minn.
 Alexandria, Va.

--	--	--

National Battery Broadcasting Co.
 Independent Publishing Co.

1470 kilocycles 204.0 meters

KGa † 5000 B
 WLAC * 5000 C

Spokane, Wash.
 Nashville, Tenn.

--	--	--

Northwest Broadcasting System, Inc.
 Life & Casualty Insurance Co.

1480 kilocycles 202.6 meters

KFJF * 5000 C
 WKBW * 5000 C

Oklahoma City
 Buffalo, N. Y.

--	--	--

National Radio Mfg. Co.
 Buffalo Broadcasting Co., Lessees

1490 kilocycles 201.2 meters

TJW -- 7.5 ---
 WCHI * 5000 1
 WCKY * 5000 1N

Hamilton, Bermuda
 Chicago, Ill.
 Covington, Ky.

--	--	--

Midland Broadcasting Company
 L. B. Wilson, Inc.

1500 kilocycles 199.9 meters

CMBL -- 20 ---
 CMBQ -- 50 ---
 CMBR -- 15 ---
 KDB * 100 ---
 KGFI * 100 +
 KGFK † 50 ---
 KGIZ † 100 ---
 KGKB † 100 ---
 KGKY * 100 ---
 KPJM * 100 ---
 KPQ † 50 ---
 KREG † 100 ---
 KUT † 100 ---
 KXO † 100 ---
 WDIX -- 100 YZ
 WKBV † 100 +
 WKBZ † 50 ---
 WLBX * 100 1
 WLOE * 100 +
 WMBA † 100 ---
 WMBQ * 100 1
 WMIL † 100 1
 WMPC † 100 ---
 WNBf * 100 ---
 WOPI * 100 ---
 WPEN * 100 +
 WRDw * 100 ---
 WSYB † 100 ---
 WWRL * 100 1
 WWSW * 100 ---
 XETZ -- 100 ---

Havana, Cuba
 Havana, Cuba
 Havana, Cuba
 Santa Barbara, Cal.
 Corpus Christi, Texas
 Moorhead, Minn.
 Grant City, Mo.
 Tyler, Texas
 Scottsbluff, Nebr.
 Prescott, Arizona
 Wenatchee, Wash.
 Santa Ana, Cal.
 Austin, Texas
 El Centro, Cal.
 Tupelo, Miss.
 Connerville, Ind.
 Ludington, Mich.
 Long Island City, N. Y.
 Boston, Mass.
 Newport, R. I.
 Brooklyn, N. Y.
 Brooklyn, N. Y.
 Lapeer, Mich.
 Binghamton, N. Y.
 Bristol, Tenn.
 Philadelphia, Pa.
 Augusta, Ga.
 Rutland, Vt.
 Woodside, N. Y.
 Pittsburgh, Pa.
 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.
 Eagle Publishing Co.
 Hilliard Co., Inc.
 A. P. Miller
 Wescoast Broadcasting Co.
 J. S. Edwards
 KUT Broadcasting Co.
 E. R. Irey and F. M. Bowles
 North Mississippi Broadcasting Corp.
 Knox Battery & Electric Co.
 K. L. Ashbacher
 John N. Brahy
 Boston Broadcasting Co.
 LeRoy Joseph Beebe
 Paul J. Gollhofer
 Arthur Faske
 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		Kcs.
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	KFOD	1230
Ketchikan	500	KGBU	900

ARIZONA

Flagstaff M-7	100	KFX Y	1420
Jerome M-6	100	KCRJ	1310
Phoenix N-6	500	KOY	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

CALIFORNIA

Bakersfield L-3	100	KERN	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
Inglewood M-3	500	KMCS	1120
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	KGFJ	1200
	1000	KHJ C	900
	500	KTM	780
Oakland J-1	250	KLS	1440
	500	KLX	880
	500	KROW	930
	50	KPPC	1210
Pasadena M-3	100	KFBK	1310
Sacramento J-2	100	KFXM	1210
San Bernardino M-3	500	KFS D	600
San Diego N-3	500	KGB C	1330
	1000	KFRC C	610
San Francisco J-1	500	KFWI	930
	100	KGCC	1420
	7500	KGO N	790
	100	KJBS	1070
	5000	KPO N	680
	1000	KTAB	560
	1000	KYA	1230

San Jose J-1	500	KQW	1010
Santa Ana M-3	100	KREG	1500
Santa Barbara M-2	100	KDB	1500
Stockton J-2	250	KGDM	1100
	100	KWG	1200

COLORADO

Colorado Springs K-11	1000	KVOR C	1270
Denver K-11	500	KFEL	920
	100	KFUP	1310
	500	KFXF	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	KGHP	1320
Trinidad L-11	100	KGIW	1420
Yuma J-12	100	KGEK	1200

CONNECTICUT

Bridgeport H-27	250	WICC	600
Hartford H-27	500	WDR 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	500	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

Athens O-23	500	WTFI	1450
Atlanta O-22	250	WGST C	890
	100	WJTL	1370
	5000	WSB N	740
Augusta O-23	100	WRDW	1500
Columbus O-22	50	WRBL	1200
Macon O-23	500	WMAZ	1180
Rome N-22	100	WFDV	1310
Savannah O-24	500	WTOC C	1260
Thomasville Q-22	100	WQDX	1210

HAWAII

Honolulu	250	KGMB	1320
	1000	KGU	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	KSEI	900
Sand Point D-6	100	KGKX	1420
Twin Falls H-6	250	KTFI	1320

INDEX BY LOCATIONS WITH MAP KEY

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

	Watts		Kcys.
ILLINOIS			
Carthage J-18	50	WCAZ	1070
Chicago I-20	10000	KFKX	1020
	10000	KYW N	1020
	500	WAAF	920
	25000	WBBM C	770
	1500	WCFL R	970
	5000	WCHI	1490
	100	WCRW	1210
	100	WEDC	1210
	50000	WENR N	870
	500	WGES	1360
	25000	WGN C	720
	1000	WIBO	560
	25000	WJBT	770
	50000	WLS B	870
	5000	WMAQN	670
	5000	WMBI	1080
	500	WPCC	560
	100	WSBC	1210
Cicero I-20	100	WEHS	1420
	100	WHFC	1420
	100	WKBI	1420
	100	WJBL	1200
Decatur K-19	100	WKBS	1310
Galesburg J-18	100	WEBQ	1210
Harrisburg L-19	100	WCLS	1310
Joliet I-19	100	WKBB	1310
	100	WJBC	1200
La Salle J-19	100	WJJD C	1130
Mooseheart I-19	20000	WMBD C	1440
Peoria Heights J-19	500	WTAD	1440
Quincy K-18	500	WFLV	1410
Rockford I-19	500	WHBF	1210
Rock Island I-18	100	WCBS	1210
Springfield K-19	100	WTAX	1210
	100	WDZ	1070
Tuscola K-20	100	WILL	890
Urbana J-20	250	WCBD	1080
Zion I-20	5000		

	Watts		Kcys.
INDIANA			
Anderson J-21	100	WHBU	1210
Connerville K-21	100	WKBV	1500
Culver I-20	500	WCMA	1400
Elkhart I-21	50	WJAK	1310
Evansville L-20	500	WGBF	630
Fort Wayne J-21	100	WGL C	1370
	10000	WOWO C	1160
Gary I-20	1000	WJKS	1360
Hammond I-20	100	WVAE	1200
Indianapolis J-21	1000	WFMB C	1230
	500	WKBF	1400
Lafayette J-20	500	WBAA	1400
Muncie J-21	50	WLBC	1310
South Bend I-20	100	WFAM	1200
	500	WSBT	1230
Terre Haute K-20	100	WBOW	1310

	Watts		Kcys.
IOWA			
Ames I-17	5000	WOI	640
Boone I-17	100	KFGQ	1310
Cedar Rapids I-18	100	KWCR	1310
Clarinda J-16	500	KSO	1380
Council Bluffs J-16	1000	KOIL B	1260
Davenport I-18	5000	WOC N	1000
Decorah H-18	50	KGCA	1270
	100	KWLC	1270
Des Moines I-17	5000	WHO N	1000
Fort Dodge I-16	100	KFJY	1310
Iowa City I-18	500	WSUI	880
Marshalltown I-17	100	KFJB	1200
Ottumwa J-17	100	WIAS	1420
Red Oak J-16	100	KICK	1420

Shenandoah J-16	500	KFNF	890
	500	KMA	930
Sioux City I-15	1000	KSCJ C	1330
Waterloo I-17	500	WMT C	600

KANSAS			
Arkansas City M-15	100	WBBZ	1200
Dodge City L-13	100	KGNO	1210
Kansas City K-16	100	WLBF	1420
Lawrence K-16	500	KFKU	1220
	1000	WREN	1220
Manhattan K-15	500	KSAC	580
Milford K-14	5000	KFBI	1050
Topeka K-16	1000	WIBW C	580
Wichita L-15	1000	KFH C	1300

KENTUCKY			
Covington K-22	5000	WCKY N	1490
Hopkinsville M-20	1000	WFIW C	940
Louisville L-21	10000	WHAS N	820
	250	WLAP C	1200
Paducah M-19	100	WPAD	1420

LOUISIANA			
Monroe P-18	100	KMLB	1200
New Orleans R-19	100	WABZ	1200
	1000	WDSU C	1250
	100	WJBO	1420
	100	WJBW	1200
	500	WSMB N	1320
	10000	KRWL	850
Shreveport P-17	50	KRMD	1310
	1000	KTBS	1450
	100	KWEA	1210
	10000	KWKH	850

MAINE			
Augusta F-28	100	WRDO	1370
Bangor F-29	100	WABI	1200
	500	WLBZ C	620
Portland F-28	1000	WCSS R	940
Presque Isle D-29	100	WAGM	1420

MARYLAND			
Baltimore J-26	10000	WBAL B	1060
	250	WCAO C	600
	100	WCBM	1370
	500	WFBR R	1270
Cumberland J-25	100	WTBO	1420

MASSACHUSETTS			
Boston G-28	500	WAAB C	1410
	1000	WBIS	1230
	25000	WBZA B	990
	1000	WEEI R	590
	1000	WHDH	830
	100	WLOE	1500
	1000	WNAC C	1230
Fall River H-28	250	WSAR	1450
Lexington G-28	100	WLEY	1370
Needham G-28	500	WBSO	920
New Bedford H-28	100	WNBH	1310
Springfield H-27	25000	WBZ B	990
Worcester G-28	100	WORC C	1200
	250	WTAG R	580

MICHIGAN			
Battle Creek I-21	50	WELL	1420
Bay City H-22	500	WBCM C	1410
Calumet E-19	100	WHDF	1370
Detroit H-22	50	WJBK	1370
	10000	WJR B	750
	100	WMBC	1420

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	WDFD		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	WKBB		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	WDGY		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
Tupelo N-20	100	WDIX		1500
Vicksburg P-18	500	WQBC		1360

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	1000	KMBC	C	950
	100	KWKX		1370
	1000	WDAF	N	610
	500	WHB		860
	1000	WOQ		1300
St. Joseph K-16	2500	KFEQ		680
	100	KGBX		1310
St. Louis L-18	500	KFUO		550
	100	KFWF		1200
	5000	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	KGZ		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		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		1430

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
	250	WKBO		1450
Newark I-27	1000	WAAM		1250
	250	WGCP		1250
	250	WNJ		1450
	5000	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
	20000	KOB		1180
Raton M-11	50	KGFL		1370

NEW YORK

Albany H-27	500	WOKO	C	1430
Auburn H-25	100	WMBO		1310
Binghamton H-26	100	WBNF		1500
Brooklyn I-27	500	WBBC		1400
	1000	WBRR		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	WGBF		1210
Glens Falls G-27	50	WGBF		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	WBNX		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.

Patchogue I-27	100	WPOE	1370
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
Utica G-26	100	WIBX	1200
Woodside I-27	100	WRRL	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	WBIG 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	WFBE	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
Columbus J-22	50000	WTAM R	1070
	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
S. Coffeyville M-15	500	KGGF	1010
Shawnee N-15	100	KGFF	1420
Tulsa M-15	5000	KVOO N	1140

OREGON

Astoria D-2	100	KFJI	1370
Corvallis E-2	1000	KOAC	550
Eugene F-2	100	KORE	1420
Marshfield F-1	100	KOOS	1370
Medford G-2	100	KMED	1310

Portland E-3	5000	KEX B	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	WEDH	1420
Erie H-24	100	WSAJ	1310
Grove City I-24	500	WBAK	1430
Harrisburg I-25	100	WCOD	1200
	500	WHP C	1430
	100	WJAC	1310
Johnstown J-24	100	WGAL	1310
Lancaster I-26	100	WKJC	1200
	100	WJBU	1210
Lewisburg I-26	500	WLBW C	1260
Oil City I-24	10000	WCAU C	1170
Philadelphia I-26	100	WDAS	1370
	500	WFAN	610
	500	WFI R	560
	100	WHAT	1310
	500	WIP C	610
	500	WLIT R	560
	100	WPEN	1500
	250	WRAX	1020
	100	WTEL	1310
Pittsburgh J-24	50000	KDKA B	980
	500	KQV	1380
	1000	WCAE R	1220
	1000	WJAS C	1290
	100	WWSW	1500
Reading I-26	1000	WBEU	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	WGEO	1000

PHILIPPINES

Cebu	500	KZRC	937.5
Manila	1000	KZKA	1110
	50000	KZRM	618.5

PORTO RICO

San Juan W-34	250	WKAQ	890
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RHODE ISLAND

Newport H-28	100	WMBA	1500
Pawtucket H-28	100	WPAW	1210
Providence H-28	250	WEAN C	780
	500	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	KGFY	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	600
Nashville M-21	5000	WLAC C	1470
	5000	WSM N	650
Springfield M-20	100	WSIX	1210

TEXAS

Abilene P-13	100	KFYO	1420
Amarillo N-12	1000	KGRS	1420
	1000	WDAG	1410
Austin Q-14	100	KUT	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	1040
	50000	WFAA N	800
	500	WRR C	1280
Dublin P-14	100	KFPL	1310
El Paso P-9	100	KTSM	1310
	100	WDAH	1310
Fort Worth P-15	100	KFJZ	1370
	1000	KTAT	1240
	10000	WBAP N	800
Galveston R-16	100	KFLX	1370
	500	KFUL	1290
Greenville O-15	15	KFPM	1310
Harlingen T-14	500	KRGV	1260
Houston R-16	1000	KPRC N	920
	100	KTLC	1310
	500	KTRH C	1120
	100	KXYZ	1420
	100	KGKL	1370
San Angelo Q-13	100	KABC	1420
San Antonio R-14	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	1210
	5000	WRVA 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
Lacey D-3	10	KGY	1200
Pullman E-5	1000	KWSC	1220
Seattle C-3	5000	KJR B	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 B	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	WOBW	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
Ellis G-19	2000	WLBL	900
Fond du Lac H-19	100	KFIZ	1420
Green Bay G-19	100	WHBY	1200
Janesville I-19	100	WCLO	1200
La Crosse H-18	1000	WKBH 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	WIBU	1210
Racine I-20	100	WRJN	1370
Sheboygan H-20	500	WHBL	1410
Superior F-17	1000	WEBC N	1290

WYOMING

Casper H-10	100	KDFN	1210
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CANADA

ALBERTA

Calgary B-7	500	CFAC	690
	10000	CFCN	985
	500	CJ CJ	690

INDEX BY LOCATIONS WITH MAP KEY

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

Edmonton A-8	250	CHMA	580
	500	CJCA	930
	500	CKUA	580
Lethbridge C-8	100	CJOC	1120
Red Deer A-8	1000	CKLC	840
	1000	CNRD	840

BRITISH COLUMBIA

Chilliwack B-3	100	CHWK	665
Kamloops B-5	100	CFJC	1120
Kelowna C-5	100	CKOV	1200
Vancouver B-3	100	CHLS	730
	500	CJOR	1210
	100	CKCD	730
	50	CKFC	730
	100	CKMO	730
	100	CKWX	730
	500	CNRV	1030
Victoria C-3	50	CFCT	630

MANITOBA

Brandon D-14	500	CKX	540
Winnipeg D-15	5000	CKY	780
	5000	CNRW	780

NEW BRUNSWICK

Fredericton D-29	50	CFNB	1210
Moncton D-30	500	CNRA	630
St. John D-30	500	CFBO	890

NOVA SCOTIA

Glace Bay C-32	2000	VAS	685
Halifax E-31	500	CHNS	815
	500	CNRH	815
Sydney C-32	50	CJCB	880
Wolfville D-31	50	CKIC	1010

ONTARIO

Brantford H-23	15	10-BQ	1200
Chatham H-22	250	CFCO	1210
Cobalt E-23	100	CKMC	1210
Ft. William E-19	50	CKPR	890
Hamilton H-24	500	CHCS	630
	50	CHML	880
	500	CKOC	635
Kingston G-25	50	CFCR	930
London H-23	5000	CJGC	910
	5000	CNRL	910
North Bay E-23	100	CFCH	930
Ottawa F-25	100	CKCO	890
	600	CNRO	600
Prescott F-25	100	CFLC	915
Preston H-23	100	CKPC	880
St. Catherines H-24	500	CKTB	635
Toronto G-24	500	CFCA	1120
	500	CFCL	580
	4000	CFRB	690
	500	CKCL	580
	5000	CKGW	840
	500	CKNC	960
	500	CNRT	1120
	4000	CNRX	690
	5000	CPRY	840
	100	CKCR	645
	500	-----	630
Waterloo G-23	15	10-BP	1200

PRINCE EDWARD ISLAND

Charlottetown C-31	500	CFCY	580
	100	CHCK	960
Summerside C-31	100	CHGS	1120

QUEBEC

Montreal E-26	500	CFCF	N 1030
	5000	CHYC	730
	5000	CKAC	C 730
	5000	CNRM	730

Quebec D-27	100	CHRC	645
	100	CKCI	645
	50	CKCV	880
	50	CNRQ	880

SASKATCHEWAN

Fleming C-13	500	CJRW	665
Moose Jaw C-11	500	CJRM	665
	25	10-AB	1200
Regina C-12	500	CHWC	960
	500	CJBR	960
	500	CKCK	960
	500	CNRR	960
Saskatoon B-11	500	CFQC	910
	500	CNRS	910
Yorkton B-13	500	CJGX	630

NEWFOUNDLAND

St. Johns A-35	75	VOAS	810
	30	VONA	950
	500	VOWR	675

CENTRAL AMERICA

COSTA RICA

Heredia FF-23	75	TI4NRH	948
San Jose FF-23	50	TIC	900

GUATAMALA

Guatamala CC-19	50	TGW	570
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HONDURAS

Tegucigalpa CC-21	2300	HRB	1370
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SALVADOR

Salvador CC-19	500	RUS	664
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MEXICO

AGUASCALIENTES

Aguascalientes W-10	250	XFC	810
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BAJA CALIFORNIA

Tijuana N-3	30	XEFD	1020
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CHIHUAHUA

Chihuahua R-9	100	XEFI	1000
	250	XEF	875
Juarez P-9	101	XEJ	1000
	5000	XEQ	750

COAHUILA

Saltillo, Coah. U-12	25	XEL	1000
Torreon U-11	125	XETB	1380
	100	XETG	1000
Villa Acuna R-12	75000	XER	735

D. F.

Coyoacan Y-13	100	XETZ	1500
Mexico City Y-13	1000	XEB	1030
	250	XEFA	1250
	100	XEG	1360
	101	XEK	990
	1000	XEN	711
	5000	XEO	940
	500	XETA	1140
	100	XETQ	1230
	5000	XEW	910
	500	XEX	1210
	500	XEZ	780
	2000	XFG	638
	1000	XFI	818
	500	XFX	867
Toluca. Y-12	50	XEC	1000

CFAC 690	CKAC 730	CMBZ 1010	CNRD 840
Calgary, Alta.	Montreal, Que.	Havana, Cuba	Red Deer, Alta.
CFBO 890	CKCD 730	CMC 842	CNRH 815
St. John, N. B.	Vancouver, B. C.	Havana, Cuba	Halifax, N. S.
CFCA 1120	CKCI 645	CMCA 1225	CNRL 910
Toronto, Ont.	Quebec, Que.	Havana, Cuba	London, Ont.
CFCF 1030	CKCK 960	CMCB 1070	CNRM 730
Montreal, Que.	Regina, Sask.	Havana, Cuba	Montreal, Que.
CFCH 930	CKCL 580	CMCD 925	CNRO 600
North Bay, Ont.	Toronto, Ont.	Havana, Cuba	Ottawa, Ont.
CFCL 580	CKCO 890	CMCF 890	CNRQ 880
Toronto, Ont.	Ottawa, Ont.	Havana, Cuba	Quebec, Que.
CFCN 985	CKCR 645	Havana, Cuba	CNRR 960
Calgary, Alta.	Waterloo, Ont.	CMCG 1345	Regina, Sask.
CFCO 1210	CKCV 880	Havana, Cuba	CNRS 910
Chatham, Ont.	Quebec, Que.	CMCH 1405	Saskatoon, Sask.
CFCT 630	CKFC 730	Havana, Cuba	CNRT 1120
Victoria, B. C.	Vancouver, B. C.	CMCJ 620	Toronto, Ont.
CFCY 580	CKGW 840	Havana, Cuba	CNRV 1030
Ch'lottet'n, P.E.I.	Toronto, Ont.	CMCM 1405	Vancouver, B. C.
CFJC 1120	CKIC 1010	Havana, Cuba	CNRW 780
Kamloops, B. C.	Wolfville, N. S.	CMCN 925	Winnipeg, Man.
CFLC 915	CKLC 840	Havana, Cuba	CNRX 690
Prescott, Ont.	Red Deer, Alta.	CMCO 660	Toronto, Ont.
CFNB 1210	CKMC 1210	CMCQ 1150	CPRY 840
Fredericton, N.B.	Cobalt, Int.	Havana, Cuba	Toronto, Ont.
CFQC 910	CKMO 730	CMCR 1345	HHK 920
Saskatoon, Sask.	Vancouver, B. C.	Havana, Cuba	Port au Prince, H.
CFRB 690	CKNC 960	CMCU 1285	HIX 669
Toronto, Ont.	Toronto, Ont.	Havana, Cuba	Santo Domingo
CFRC 930	CKOC 635	CMCW 1285	HRB 1370
Kingston, Ont.	Hamilton, Ont.	CMCY 1345	Tequicigalpa
CHCK 960	CKOV 1200	Havana, Cuba	KABC 1420
Ch'lottet'n, P.E.I.	Kelowna, B. C.	CMDC 660	San Antonio, Tex.
CHCS 630	CKPC 880	Havana, Cuba	KARK 890
Hamilton, Ont.	Preston, Ont.	CMGA 834	Lit. Rock, Ark.
CHGS 1120	CKPR 890	Colon, Cuba	KBPS 1420
Sum'rside, P.E.I.	Ft. William, Ont.	CMGB 1205	Portland, Ore.
CHLS 730	CKTB 635	Matanzas, Cuba	KBTM 1200
Vancouver, B. C.	St. Cath., Ont.	CMGE 1375	Paragould, Ark.
CHMA 580	CKUA 580	Cardenas, Cuba	KCRC 1370
Edmonton, Alta.	Edmonton, Alta.	CMGF 977	Enid, Okla.
CHML 880	CKWX 730	Matanzas, Cuba	KCRJ 1310
Hamilton, Ont.	Vancouver, B. C.	CMGH 1370	Jerome, Ariz.
CHNS 815	CKX 540	Matanzas, Cuba	KDB 1500
Halifax, N. S.	Brandon, Man.	CMHC 790	S. Barbara, Cal.
CHRC 645	CKY 780	Tuinucu, Cuba	KDFN 1210
Quebec, Que.	Winnipeg, Man.	CMHD 950	Casper, Wyo.
CHWC 960	CMAB 1249	Caibarien, Cuba	KDKA 980
Regina, Sask.	Pinar del Rio, Cu	CMHI 1110	Pittsburgh, Pa.
CHWK 665	CMAC 1375	Santa Clara, Cu	KDLR 1210
Chilliwack, B. C.	Pinar del Rio, Cu	CMHJ 645	Devils Lake, N.D.
CHYC 730	CMBC 965	Cienfuegos, Cuba	KDYL 1290
Montreal, Que.	Havana, Cuba	CMJC 1382	Salt Lake City
CJBR 960	CMBD 965	Camaguey, Cuba	KECA 1430
Regina, Sask.	Havana, Cuba	CMJE 856	Los Angeles, Cal.
CJCA 930	CMBG 1070	Camaguey, Cuba	KELW 780
Edmonton, Alta.	Havana, Cuba	CMJF 930	Burbank, Cal.
CJCB 880	CMBI 1405	Camaguey, Cuba	KERN 1200
Svdney, N. S.	Havana, Cuba	CMJG 1200	Bakersfield, Cal.
CJJC 690	CMBL 1500	Camaguey, Cuba	KEX 1180
Calgary, Alta.	Havana, Cuba	CMJH 1017	Portland, Ore.
CJGC 910	CMBN 1405	Ciego de Avila, C.	KFAB 770
London, Ont.	Havana, Cuba	CMK 730	Lincoln, Nebr.
CJGX 630	CMBQ 1500	Havana, Cuba	KFAC 1300
Yorkton, Sask.	CMBR 1500	CMKC 1034	Los Angeles, Cal.
CJOC 1120	Havana, Cuba	Santiago, Cuba	KFBB 1280
Lethbridge, Alta.	CMBS 790	CMQ 1150	Great Fls., Mont.
CJOR 1210	Havana, Cuba	Havana, Cuba	KFBI 1050
Vancouver, B. C.	CMBT 970	CMW 588	Milford, Kans.
CJRM 665	Havana, Cuba	Havana, Cuba	KFBK 1310
Moose Jaw, Sask.	CMBW 1010	Havana, Cuba	Sacramento, Cal.
CJRW 665	Havana, Cuba	CMX 885	KFBL 1370
Fleming, Sask.	CMBY 1225	Havana, Cuba	Everett, Wash.
	Havana, Cuba	CNRA 630	KFDM 560
		Moncton, N. B.	Beaumont, Tex.
			KFDY 550
			Brookings, S. D.

KFEL 920
Denver, Colo.
KFEQ 680
St. Joseph, Mo.
KFGQ 1310
Boone, Iowa
KFH 1300
Wichita, Kansas
KFI 640
Los Angeles, Cal.
KFIO 1120
Spokane, Wash.
KFIZ 1420
Fond du Lac, Wis.
KFJB 1200
Marshalltown, Ia.
KFJF 1480
Oklahoma City
KFJI 1370
Astoria, Ore.
KFJM 1370
Grd. Forks, N.D.
KFJR 1300
Portland, Ore.
KFJY 1310
Fort Dodge Ia.
KFJZ 1370
Ft. Worth, Tex.
KFKA 880
Greeley, Colo.
KFKU 1220
Lawrence, Kans.
KFKX 1020
Chicago, Ill.
KFLV 1410
Rockford, Ill.
KFLX 1370
Galveston, Tex.
KFMX 1250
N'thfield, Minn.
KFNF 890
Shenandoah, Ia.
KFOR 1210
Lincoln, Nebr.
KFOX 1250
Long Beach, Cal.
KFPL 1310
Dublin, Texas
KFPM 1310
Greenville, Texas
KFPW 1340
Ft. Smith, Ark.
KFPY 1340
Spokane, Wash.
KFQD 1230
Anchorage, Alas.
KFRC 610
San F'nscisco, Cal.
KFRU 630
Columbia, Mo.
KFSD 600
San Diego, Cal.
KFSG 1120
Los Angeles, Cal.
KFUL 1290
Galveston, Texas
KFUO 550
St. Louis, Mo.
KFUP 1310
Denver, Colo.
KFVD 1000
Culver City, Cal.
KFVS 1210
Cape Gir'rd'u, Mo

KFWB 553
Hollywood, Cal.
KFWF 1200
St. Louis, Mo.
KFWI 930
San F'nscisco, Cal.
KFXD 1420
Nampa, Idaho
KFXF 920
Denver, Colo.
KFXJ 1310
Grand Junc., Col.
KFXM 1210
San Ber'd no, Cal.
KFXR 1310
Oklahoma City
KFX Y 1420
Flagstaff, Ariz.
KFYO 1420
Abilene, Texas
KFYR 550
Bismarck, N. D.
KGA 1470
Spokane, Wash.
KGAR 1370
Tucson, Arizona
KGB 1330
San Diego, Cal.
KGBU 900
Ketchikan, Al'ka
KGBX 1310
St. Joseph, Mo.
KGBZ 930
York, Nebr.
KGCA 1270
Decorah, Iowa
KGCR 1210
Watertown, S. D.
KGCU 1240
Mandan, N. D.
KGCC 1310
Wolf P't, Mont.
KGDA 1370
Mitchell, S. D.
KGDE 1200
Fergus Falls, Minn
KGDM 1100
Stockton, Cal.
KGDY 1200
Huron, S. D.
KGEK 1200
Yuma, Colo.
KGER 1360
Long Beach, Cal.
KGEW 1 00
Ft. Morgan, Colo
KGEZ 1310
Kalispell, Mont.
KGFF 1420
Shawnee, Okla.
KGFG 1370
Oklahoma City
KGFI 1500
Corp's Ch'sti, Tex
KG FJ 1200
Los Angeles, Cal.
KGFK 1500
Moorhead, Minn.
KGFL 1370
Raton, N. M.
KGFW 1310
Kearney, Nehr.
KGFX 580
Pierre, S. D.
KGGC 1420
San F'nscisco, Cal.

KGGF 1010
Coffeyville, Okla.
KGGM 1230
Albuq'rque, N.M.
KGHF 1320
Pueblo, Colo.
KGHI 1200
Little Rock, Ark.
KGHL 950
Billings, Mont.
KGIR 1360
Butte, Mont.
KGIW 1420
Trinidad, Colo.
KGIX 1420
Las Vegas, Nev.
KGIZ 1500
Grant City, Mo
KGKB 1500
Tyler, Texas
KGKL 1370
San Angelo, Tex.
KGKO 570
Wichita Flls., Tex.
KGKX 1420
Sand Point, Idaho
KGKY 1500
Scottsbluff, Nebr.
KGMB 1320
Honolulu, T. H.
KGNF 1430
No. Platte, Nebr.
KGNO 1210
Dodge City, Kas.
KGO 790
San F'nscisco, Cal.
KGRS 1410
Amarillo, Texas
KGU 940
Honolulu, Hawaii
KGVO 1420
Missoula, Mont.
KGW 620
Portland, Ore.
KGY 1200
Lacey, Wash.
KHJ 900
Los Angeles, Cal.
KHQ 590
Spokane, Wash.
KICK 1420
Red Oak, Iowa
KID 1320
Idaho Falls, 'da.
KIDO 1350
Boise, Idaho
KIT 1310
Yakima, Wash.
KJBS 1070
San F'nscisco, Cal.
KJR 970
Seattle, Wash.
KLCN 1290
Blytheville, Ark.
KLO 1400
Ogden, Utah
KLPM 1240
Minot, N. Dak.
KLRA 1390
Little Rock, Ark.
KLS 1440
Oakland, Cal.
KLX 880
Oakland, Cal.
KLZ 560
Denver, Colo.

KMA 930
Shenandoah, Ia.
KMAC 1370
San Antonio, Tex.
KMBC 950
Kan. City, Mo.
KMCS 1120
Inglewood, Cal.
KMED 1310
Medford, Ore.
KMJ 1210
Fresno, Cal.
KMLB 1200
Monroe, La.
KMMJ 740
Clay Ctr., Nebr.
KMO 860
Tacoma, Wash.
KMOX 1090
St. Louis, Mo.
KMPC 710
Beverly Hills, Cal
KMTR 570
Hollywood, Cal.
KNX 1050
Hollywood, Cal.
KOA 830
Denver, Colo.
KOAC 550
Corvallis, Ore.
KOB 1180
Albquer., N. M.
KOCW 1400
Chickasha, Okla.
KOH 1380
Reno, Nevada
KOIL 1260
Council Bluffs, Ia.
KOIN 940
Portland, Ore.
KOL 1270
Seattle, Wash.
KOMO 920
Seattle, Wash.
KONO 1370
San Antonio, Tex.
KOOS 1370
Marshfield, Ore.
KORE 1420
Eugene, Ore.
KOY 1390
Phoenix, Arizona
KPCB 650
Seattle, Wash.
KPJM 1500
Prescott, Ariz.
KPO 680
San F'nscisco, Cal
KPOF 880
Denver, Colo.
KPPC 1210
Pasadena, Cal.
KPQ 1500
Wenatchee, Wash
KRQ 920
Houston, Texas
KQV 1380
Pittsburgh, Pa.
KQW 1010
San Jose, Cal.
KRE 1370
Berkeley, Cal.
KREG 1500
Santa Ana, Cal.
KRGV 1260
Harlingen, Texas

KRLD 1040 Dallas, Texas	KWJJ 1060 Portland, Ore.	WAWZ 1350 Zarephath, N. J.	WCAT 1200 Rapid City, S. D.
KRMD 1310 Shreveport, La.	KWK 1350 St. Louis, Mo.	WBAA 1400 Lafayette, Ind.	WCAU 1170 Philadelphia, Pa.
KROW 930 Oakland, Cal.	KWKC 1370 Kansas City, Mo.	WBAK 1430 Harrisburg, Pa.	WCAX 1200 Burlington, Vt.
KRSC 1120 Seattle, Wash.	KWKH 850 Shreveport, La.	WBAL 760-1060 Baltimore, Md.	WCAZ 1070 Carthage, Ill.
KSAC 580 Manh'tt'n, Kans.	KWLC 1270 Decorah, Iowa	WBAP 800 Fort Worth, Tex.	WCBA 1440 Allentown, Pa.
KSCJ 1330 Sloux City, Ia.	KWSC 1220 Pullman, Wash.	WBAX 1210 Wilkes-Barre, Pa.	WCBD 1080 Zion, Ill.
KSD 550 St. Louis, Mo.	KWWG 1260 Brownsville, Tex.	WBBC 1400 Brooklyn, N. Y.	WCBM 1370 Baltimore, Md.
KSEI 900 Pocatello, Idaho	KXA 570 Seattle, Wash.	WBBL 1210 Richmond, Va.	WCBS 1210 Springfield, Ill.
KSL 1130 Salt Lake City	KXL 1420 Portland, Ore.	WBBM 770 Chicago, Ill.	WCCO 810 Minneapolis, Minn.
KSO 1380 Clarinda, Iowa	KXO 1500 El Centro, Cal.	WBBR 1300 Brooklyn, N. Y.	WCDA 1350 New York City
KSOO 1110 Sioux Falls, S. D.	KXRO 1310 Aberdeen, Wash.	WBBZ 1200 Ark. City, Kan.	WCFL 970 Chicago, Ill.
KSTP 1460 St. Paul, Minn.	KXYZ 1420 Houston, Texas	WBCM 1410 Bay City, Mich.	WCGU 1400 Brooklyn, N. Y.
KTAB 560 San F'nclisco, Cal.	KYA 1230 San F'nclisco, Cal.	WBEN 900 Buffalo, N. Y.	WCHI 1490 Chicago, Ill.
KTAR 620 Phoenix, Ariz.	KYW 1020 Chicago, Ill.	WBEO 1310 Marquette, Mich.	WCKY 1490 Covington, Ky.
KTAT 1240 Ft. Worth, Tex.	KZRC 937.5 Cebu, P. I.	WBGF 1370 Glens Falls, N. Y.	WCLO 1200 Janesville, Wis.
KTBR 1300 Portland, Ore.	KZRM 618.5 Manila, P. I.	WBHS 1200 Huntsville, Ala.	WCLS 1310 Joliet, Ill.
KTBS 1450 Shreveport, La.	NAA 690 Arlington, Va.	WBIG 1440 Greensboro, N.C.	WCMA 1400 Culver, Ind.
KTFI 1320 Twin Falls, Ida.	RUS 664 Salvador	WBIS 1230 Boston, Mass.	WCOA 1340 Pensacola, Fla.
KTHS 1040 Hot Spgs., Ark.	TGW 570 Guatamala	WBMS 1450 Hackensack, N.J.	WCOC 880 Meridian, Miss.
KTLC 1310 Houston, Texas	TIC 900 San Jose, C. R.	WBNX 1350 New York City	WCOD 1200 Harrisburg, Pa.
KTM 780 Los Angeles, Cal.	TI4NRH 948 Heredia, C. R.	WBOQ 860 New York City	WCOH 1210 Yonkers, N. Y.
KTRH 1120 Houston, Texas	VAS 685 Glace Bay, N. S.	WBOW 1310 Terre Haute, Ind.	WCRW 1210 Chicago, Ill.
KTSA 1290 San Antonio, Tex.	VOAS 810 St. John's, N. F.	WBRC 930 Birmingham, Ala.	WCSC 1360 Charleston, S. C.
KTSM 1310 El Paso, Texas	VONA 950 St. John's, N. F.	WBRE 1310 Wilkes-Barre, Pa.	WCSH 940 Portland, Maine
KTW 1220 Seattle, Wash.	VOWR 675 St. Johns, N. F.	WBSO 920 Needham, Mass.	WDAE 1220 Tampa, Fla.
KUJ 1370 Walla Wall, Wash.	WAAB 1410 Boston, Mass.	WBT 1080 Charlotte, N. C.	WDAF 610 Kansas City, Mo.
KUOA 1390 Fayetteville, Ark.	WAAF 920 Chicago, Ill.	WBTM 1370 Danville, Va.	WDAG 1410 Amarillo, Texas
KUSD 890 Vermillion, S. D.	WAAM 1250 Newark, N. J.	WBZ 990 Springfield, Mass.	WDAH 1310 El Paso, Texas
KUT 1500 Austin, Texas	WAAT 940 Jersey City, N. J.	WBZA 990 Boston, Mass.	WDAS 1370 Philadelphia, Pa.
KVI 760 Tacoma, Wash.	WAAW 660 Omaha, Nebr.	WCAC 600 Storrs, Conn.	WDAY 940 Fargo, N. D.
KVL 1370 Seattle, Wash.	WABC 860 New York City	WCAD 1220 Canton, N. Y.	WDBJ 930 Roanoke, Va.
KVOA 1260 Tucson, Arizona	WABI 1200 Bangor, Maine	WCAE 1220 Pittsburgh, Pa.	WDBO 1120 Orlando, Fla.
KVOO 1140 Tulsa, Okla.	WABZ 1200 New Orleans, La.	WCAH 1430 Columbus, Ohio	WDEL 1120 Wilmington, Del.
KVOR 1270 Col. Sp'gs, Colo.	WACO 1240 Waco, Texas	WCAJ 590 Lincoln, Nebr.	WDEV 1420 Waterbury, Vt.
KVOS 1200 Bellingh'm, Wash.	WADC 1320 Akron, Ohio	WCAL 1250 Northfield, Minn.	WDGY 1180 Minneapolis, Minn.
KWCR 1310 Cedar Rapids, Ia.	WAGM 1420 Presque Isle, Me.	WCAM 1280 Camden, N. J.	WDIX 1500 Tupelo, Miss.
KWEA 1210 Shreveport, La.	WAIU 640 Columbus, Ohio	WCAO 600 Baltimore, Md.	WDOD 1280 Chattanooga, Tenn.
KWG 1200 Stockton, Cal.	WALR 1210 Zanesville, Ohio	WCAP 1280 Asbury Pk., N. J.	WDRC 1330 Hartford, Conn.
	WAPI 1140 Birmingham, Ala.		
	WASH 1270 Gr. Rapids, Mich.		

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.
WEDH 1420
Erie, Pa.
WEEI 590
Boston, Mass.
WEEU 830
Reading, Pa.
WEHC 1350
Emory, Va.
WEHS 1420
Cicero, Ill.
WELL 1420
Battle C'k, Mich.
WENR 870
Chicago, Ill.
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.
WFEA 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.
WGEO 1000
York, Pa.
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
Schenech'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
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.
WJBT 770
Chicago, Ill.
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.
WKAV 1310
Laconia, N. H.
WKBB 1310
Joliet, Ill.
WKBC 1310
Birmingham, Ala.
WKBF 1400
Indianapolis, Ind.
WKBH 1380
La Crosse, Wis.
WKBI 1420
Cicero, Ill.
WKBN 570
Youngstown, O.
WKBO 1450
Jersey City, N. J.
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.
WLBC 1310
Muncie, Ind.
WLBF 1420
Kansas City, Ks.
WLBG 1200
Etrick, Va.
WLBL 900
Ellis, 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.	WQDM 1370 St. Albans, Vt.	WSUI 880 Iowa City, Iowa
WLOE 1500 Boston, Mass.	WNYC 570 New York City	WQDX 1210 Thomasville, Ga.	WSUN 620 St. Petersburg, Fla.
WLS 870 Chicago, Ill.	WOAI 1190 San Antonio, Tex.	WRAC 1370 Williamsport, Pa.	WSVS 1370 Buffalo, N. Y.
WLTH 1400 Brooklyn, N. Y.	WOAX 1280 Trenton, N. J.	WRAM 1370 Wilmington, N. C.	WSYB 1500 Rutland, Vt.
WLVA 1370 Lynchburg, Va.	WOBU 580 Charlest'n, W. Va.	WRBW 1310 Reading, Pa.	WSYR 570 Syracuse, N. Y.
WLW 700 Cincinnati, Ohio	WOC 1000 Davenport, Iowa	WRAX 1020 Philadelphia, Pa.	WTAD 1440 Quincy, Ill.
WLWL 1100 New York City	WOCL 1210 Jamestown, N. Y.	WRBL 1200 Columbus, Ga.	WTAG 580 Worcester, Mass.
WMAC 570 Syracuse, N. Y.	WODA 1250 Paterson, N. J.	WRBQ 1210 Greenville, Miss.	WTAM 1070 Cleveland, Ohio
WMAL 630 Washington, D. C.	WODX 1410 Mobile, Ala.	WRBX 1410 Roanoke, Va.	WTAQ 1330 Eau Claire, Wis.
WMAQ 670 Chicago, Ill.	WOI 640 Ames, Iowa	WRC 950 Washington, D. C.	WTAR 780 Norfolk, Va.
WMAZ 1180 Macon, Ga.	WOKO 1430 Albany, N. Y.	WRDO 1370 Augusta, Maine	WTAW 1120 College Sta., Tex.
WMBA 1500 Newport, R. I.	WOL 1310 Washington, D. C.	WRDW 1500 Augusta, Ga.	WTAX 1210 Springfield, Ill.
WMBC 1420 Detroit, Mich.	WOMT 1210 Manitowoc, Wis.	WREC 600 Memphis, Tenn.	WTBO 1420 Cumberland, Md.
WMBD 1440 Peoria Hghts., Ill.	WOOD 1270 Gr. Rapids, Mich.	WREN 1220 Lawrence, Kans.	WTEL 1310 Philadelphia, Pa.
WMBG 1210 Richmond, Va.	WOPI 1500 Bristol Tenn.	WRHM 1250 Minneap., Minn.	WTFI 1450 Toccoa, Ga.
WMBH 1420 Joplin, Mo.	WOQ 1300 Kansas City, Mo.	WRJN 1370 Racine, Wis.	WTIC 660-1060 Hartford, Conn.
WMBI 1080 Chicago, Ill.	WOR 710 Newark, N. J.	WRNY 1010 New York City	WTJS 1310 Jackson, Tenn.
WMBO 1310 Auburn, N. Y.	WORC 1200 Worcester, Mass.	WROL 1310 Knoxville, Tenn.	WTMJ 620 Milwaukee, Wis.
WMBQ 1500 Brooklyn, N. Y.	WOS 630 Jeff's'n City, Mo.	WRR 1280 Dallas, Texas	WTOC 1260 Savannah, Ga.
WMBR 1370 Tampa, Fla.	WOV 1130 New York City	WRUF 830 Gainesville, Fla.	WTSL 1310 Laurel, Miss.
WMC 780 Memphis, Tenn.	WOW 590 Omaha, Nebr.	WRVA 1110 Richmond, Va.	WWAE 1200 Hammond, Ind.
WMCA 570 New York City	WOWO 1160 Ft. Wayne, Ind.	WSAI 1330 Cincinnati, Ohio	WWJ 920 Detroit, Mich.
WMIL 1500 Brooklyn, N. Y.	WPAD 1420 Paducah, Ky.	WSAJ 1310 Grove City, Pa.	WWL 850 New Orleans, La.
WMMN 890 Fairmont, W. Va.	WPAP 1010 New York City	WSAN 1440 Allentown, Pa.	WWNC 570 Asheville, N. C.
WMPC 1500 Lapeer, Mich.	WPAW 1210 Pawtucket, R. I.	WSAR 1450 Fall River, Mass.	WWRL 1500 Woodside, N. Y.
WMRJ 1210 Jamaica, N. Y.	WPCC 560 Chicago, Ill.	WSAZ 580 Hunt'gton, W. Va.	WWSW 1500 Pittsburgh, Pa.
WMSG 1350 New York City	WPCH 810 New York City	WSB 740 Atlanta, Ga.	WWVA 1160 Wheeling, W. Va.
WMT 600 Waterloo, Iowa	WPEN 1500 Philadelphia, Pa.	WSBC 1210 Chicago, Ill.	WXYZ 1240 Detroit, Mich.
WNAC 1230 Boston, Mass.	WPFB 1370 Hattiesb'g., Miss.	WSBT 1230 South Bend, Ind.	XEA 1000 Guad'l'jara, Mex.
WNAD 1010 Norman, Okla.	WPG 1100 Atl'ntic City, N. J.	WSEN 1210 Columbus, Ohio	XEB 1030 Mexico City
WNAX 570 Yankton, S. D.	WPOE 1370 Patchogue, N. Y.	WSFA 1410 Montgomery, Ala.	XEC 1000 Toluca, Mexico
WNB 1500 Bingh'm't'n, N. Y.	WPOR 780 Norfolk, Va.	WSIX 1210 Springfield, Tenn.	XED 965 Reynosa, Mexico
WNBH 1310 New B'd'f'd, Mass.	WPRO 1210 Providence, R. I.	WSJS 1310 Winst.-Sal., N. C.	XEE 1000 Oaxaco, Mexico
WNBO 1200 Washington, Pa.	WPSC 1230 State College, Pa.	WSM 650 Nashville, Tenn.	XEFA 1250 Mexico City
WNBR 1430 Memphis, Tenn.	WPTF 680 Raleigh, N. C.	WSMB 1320 New Orleans, La.	XEFB 1270 Monterrey, Mex.
WNBW 1200 Carbondale, Pa.	WQAM 560 Miami, Fla.	WSMK 1380 Dayton, Ohio	XEFC 1050 Merida, Mex.
WNBX 1200 Springfield, Vt.	WQAN 880 Scranton, Pa.	WSOC 1210 Gastonia, N. C.	XEFD 1020 Tijuana, Mex.
WNBZ 1290 Sar'n'c L'ke, N. Y.	WQAO 1010 New York City	WSPA 1420 Spartanburg, S. C.	XEFE 1000 Laredo, Mexico
WNJ 1450 Newark, N. J.	WQBC 1360 Vicksburg, Miss.	WSPD 1340 Toledo, Ohio	XEFI 1000 Chihuahua, Mex.

XEFS 1000 Queretaro, Mex.	XEO 940 Mexico City	XETF 630 Veracruz, Mex.	XEZ 780 Mexico City
XEG 1360 Mexico, Mex.	XEP 1400 Laredo, Mexico	XETG 1000 Torreon, Mex.	XFC 810 Aguascal'ntes, 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-BP 1200 Wingham, Ont.
XEN 711 Mexico City	XETC 1000 Jalapa, Mex.	XEY 1000 Merida, Mexico	10-BQ 1200 Brantford, Ont.

INDEX BY LOCATIONS WITH MAP KEY

(Continued from page 59)

Location	Watts	Call Letters	Kcys.	Location	Watts	Call Letters	Kcys.
JALISCO				Ciego de Avila W-26	15	CMJH	1017
Guadalajara, Jal. X-10	101	XEA	1000	Cienfuegos W-25	40	CMHJ	645
MICHOACAN				Colon W-24	100	CMGA	834
Morelia, Mich. Y-12	101	XEI	1000	Havana W-23	150	CMBC	965
NEUVO LEON					150	CMBD	965
Monterrey, N. L. U-13	50	XEFB	1270	Havana W-23	150	CMBG	1070
	1000	XEH	1132		30	CMBI	1405
	500	XET	690		20	CMBL	1500
OAXACA					30	CMBN	1405
Oaxaca, Oak. AA-14	105	XEE	1000		50	CMBQ	1500
PUEBLA					15	CMBR	1500
Puebla Z-13	101	XEV	1000		150	CMBS	790
QUERETARO					500	CMBT	970
Queretaro X-12	40	XEFS	1000		150	CMBW	1010
TAMAULIPAS					350	CMBY	1225
N. Laredo S-13	101	XEFE	1000		150	CMBZ	1010
	200	XEP	1400		500	CMC	842
Reynosa, Tams. T-14	10000	XED	965		150	CMCA	1225
Tampico, Tams. W-14	500	XEM	730		150	CMCB	1070
	500	XES	890		250	CMCD	925
VERA CRUZ					250	CMCF	890
Jalapa Y-14	100	XETC	1000		30	CMCG	1345
Veracruz, Ver. Z-14	500	XETF	630		15	CMCH	1405
	101	XEU	1000		250	CMCJ	620
YUCATAN					15	CMCM	1405
Merida, Yuc. X-19	105	XEY	1000		250	CMCN	925
WEST INDIES					225	CMCO	660
BERMUDA					600	CMCQ	1150
Hamilton M-35	7.5	TJW	1490		150	CMCR	1345
CUBA					150	CMCU	1285
Caibarien W-25	250	CMHD	950		150	CMCW	1285
Cardenas W-24	30	CMGE	1375		50	CMCY	1345
Camaguey W-26	150	CMJC	1382		500	CMDC	660
	20	CMJE	856		3150	CMK	730
	50	CMJF	930		250	CMQ	1150
	30	CMJG	1200		1400	CMW	588
					1000	CMX	885
				Matanzas W-24	7.5	CMGB	1205
					50	CMGF	977
					150	CMGH	1370
				Pinar del Rio W-22	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	669
				HAITI			
				Port au Prince X-30	1000	HHK	920

THE POLICE BROADCASTING STATIONS

By Frequencies

By Calls

By Cities

Keys.	Call	Location	Call	Keys.	Location	Location	Call	Keys.
257	WBA	Harrisburg, Pa.	KGJX	1712	Pasadena, Calif.	Akron, Ohio	WPDO	2458
	WBR	Butler, Pa.	KGOY	1712	San Antonio, Texas	Auburn, N. Y.	WPDN	1712
	WDX	Wyoming, Pa.	KGOZ	2470	Cedar Rapids, Iowa	Beaumont, Texas	KGJX	1712
	WJL	Greensburg, Pa.	KGPA	1596	Seattle, Wash.	Berkeley, Calif.	KSW	2410
438	WPY	New York, N. Y.	KGPB	2416	Minneapolis, Minn.	Brooklyn, N. Y.	WRDU	1596
500	WPY	New York, N. Y.	KGPC	1712	St. Louis, Mo.	Buffalo, N. Y.	WMJ	2422
1596	KGPA	Seattle, Wash.	KGPD	1596	San Francisco, Calif.	Butler, Pa.	WBR	257
	KGPD	San Francisco, Calif.	KGPE	2422	Kansas City, Mo.	Cedar Rapids, Iowa	KGOZ	2470
	WKDT	Detroit, Mich.	KGPF	2416	El Paso, Texas	Charlotte, N. C.	WPDV	2458
	WRDU	Brooklyn, N. Y.	KGPG	2410	Vallejo, Calif.	Chicago, Ill.	WPDB	1712
1662	WRDS	Ingham, Mich.	KGPH	2452	Oklahoma City	Chicago, Ill.	WPDC	1712
1712	KGJX	Pasadena, Calif.	KGPI	2470	Omaha, Nebr.	Chicago, Ill.	WPDD	1712
	KGOY	San Antonio, Texas	KGPI	1712	Beaumont, Texas	Cincinnati, Ohio	WKDU	1712
	KGPC	St. Louis, Mo.	KGPK	2470	Sioux City, Iowa	Cleveland, Ohio	WRBH	2452
	KGPI	Beaumont, Texas	KGPL	1712	Los Angeles, Calif.	Dallas, Texas	KVP	1712
	KGPL	Los Angeles, Calif.	KGPM	2410	San Jose, Calif.	Davenport, Iowa	KGPN	2470
	KVP	Dallas, Texas	KGPN	2470	Davenport, Iowa	Detroit, Mich.	WKDT	1596
	WKDU	Cincinnati, Ohio	KGPO	2452	Tulsa, Okla.	Detroit, Mich.	WPDX	2410
	WPDB	Chicago, Ill.	KGPP	2452	Portland, Ore.	Detroit, Mich.	WPDF	2440
	WPDC	Chicago, Ill.	KSW	2410	Berkeley, Calif.	Flint, Mich.	WPDF	2440
	WPDD	Chicago, Ill.	KVP	1712	Dallas, Texas	Fort Wayne, Ind.	WPDZ	2470
	WPDN	Auburn, N. Y.	WBA	257	Harrisburg, Pa.	Grand Rapids, Mich.	WPEB	2440
	WPDR	Rochester, N. Y.	WBR	257	Butler, Pa.	Greensburg, Pa.	WJL	257
	WPDU	Pittsburgh, Pa.	WCK	2410	Detroit, Mich.	Grosse Point, Mich.	WRDR	2410
	WPEA	Syracuse, N. Y.	WDX	257	Wyoming, Pa.	Harrisburg, Pa.	WBA	257
2410	KGPD	San Francisco, Calif.	WJL	257	Greensburg, Pa.	Highland Park, Mich.	WMO	2410
	KGPG	Vallejo, Calif.	WKDT	1596	Detroit, Mich.	Indianapolis, Ind.	WMDZ	2440
	KGPM	San Jose, Calif.	WKDU	1712	Cincinnati, Ohio	Ingham, Mich.	WRDS	1662
	KSW	Berkeley, Calif.	WMDZ	2440	Indianapolis, Ind.	Kansas City, Mo.	KGPE	2422
	WCK	Detroit, Mich.	WMJ	2422	Buffalo, N. Y.	Kokomo, Indiana	WPDT	2470
	WMO	Highland Park, Mich.	WMO	2410	Highland Park, Mich.	Lansing, Mich.	WPDL	2440
	WPDX	Detroit, Mich.	WNDA	2440	Miami, Fla.	Los Angeles, Calif.	KGPL	1712
	WPGW	Washington, D. C.	WPDA	2416	Tulare, Calif.	Louisville, Ky.	WPDE	2440
	WRDR	Grosse Point, Mich.	WPDB	1712	Chicago, Ill.	Memphis, Tenn.	WPEC	2470
2416	KGFB	Minneapolis, Minn.	WPDC	1712	Chicago, Ill.	Miami, Fla.	WNDA	2440
	KGPF	El Paso, Texas	WPDD	1712	Chicago, Ill.	Milwaukee, Wis.	WPDK	2452
	WPDA	Tulare, Calif.	WPDE	2440	Louisville, Ky.	Minneapolis, Minn.	KGPB	2416
	WPDH	Richmond, Va.	WPDF	2440	Flint, Mich.	New York, N. Y.	WPY	438
	WPDJ	Passaic, N. J.	WPDG	2458	Youngstown, Ohio	New York, N. Y.	WPY	500
	WPDS	St. Paul, Minn.	WPDH	2416	Richmond, Va.	Oklahoma City, Okla.	KGPH	2452
2422	KGPE	Kansas City, Mo.	WPDJ	2416	Passaic, N. J.	Omaha, Nebr.	KGPI	2470
	WMJ	Buffalo, N. Y.	WPK	2452	Milwaukee, Wis.	Pasadena, Calif.	KGJX	1712
2440	WMDZ	Indianapolis, Ind.	WPDL	2440	Lansing, Mich.	Passaic, N. J.	WPDJ	2416
	WNDA	Miami, Fla.	WPDM	2440	St. Petersburg, Fla.	Philadelphia, Pa.	WPDP	2440
	WPDE	Louisville, Ky.	WPDN	1712	Auburn, N. Y.	Pittsburgh, Pa.	WPDU	1712
	WPDF	Flint, Mich.	WPDO	2458	Akron, Ohio	Portland, Ore.	KGPP	2452
	WPDL	Lansing, Mich.	WPDP	2440	Philadelphia, Pa.	Richmond, Va.	WPDH	2416
	WPDM	St. Petersburg, Fla.	WPDQ	2470	Rochester, N. Y.	Rochester, N. Y.	WPDR	1712
	WPDP	Philadelphia, Pa.	WPDV	2458	Charlotte, N. C.	St. Louis, Mo.	KGPC	1712
	WPEB	Grand Rapids, Mich.	WPDZ	2410	Detroit, Mich.	St. Paul, Minn.	WPDS	2416
2452	KGPH	Oklahoma City	WPEA	1712	Syracuse, N. Y.	St. Petersburg, Fla.	WPDM	2440
	KGPO	Tulsa, Okla.	WPEB	2440	Grand Rapids, Mich.	San Antonio, Texas	KGOY	1712
	KGPP	Portland, Ore.	WPEC	2470	Memphis, Tenn.	San Francisco, Calif.	KGPD	1596
	WPK	Milwaukee, Wis.	WPGW	2410	Washington, D. C.	San Francisco, Calif.	KGPD	2410
2458	WRBH	Cleveland, Ohio	WPY	438	New York, N. Y.	San Jose, Calif.	KGPM	2410
	WPDG	Youngstown, Ohio	WPY	500	New York, N. Y.	Seattle, Wash.	KGPA	1596
	WPDO	Akron, Ohio	WRBH	2452	Cleveland, Ohio	Sioux City, Iowa	KGPK	2470
	WPDV	Charlotte, N. C.	WRDQ	2470	Toledo, Ohio	Syracuse, N. Y.	WPEA	1712
2470	KGOZ	Cedar Rapids, Iowa	WRDR	2410	Grosse Point, Mich.	Toledo, Ohio	WRDQ	2470
	KGPI	Omaha, Nebr.	WRDS	1662	Ingham, Mich.	Tulare, Calif.	WPDA	2416
	KGPK	Sioux City, Iowa	WRDU	1596	Brooklyn, N. Y.	Tulsa, Okla.	KGPO	2452
	KGPN	Davenport, Iowa				Vallejo, Calif.	KGPG	2410
	WPDT	Kokomo, Ind.				Washington, D. C.	WPGW	2410
	WPDZ	Ft. Wayne, Ind.				Wyoming, Pa.	WDX	257
	WPEC	Memphis, Tenn.				Youngstown, Ohio	WPDG	2458
	WRDQ	Toledo, Ohio						

RADEX will welcome the cooperation of its readers in these times as never before. It would be a very great favor if you would show this magazine to your

friends and explain its merits to them. As the number of readers grows, the magazine can expand and this will bring you a bigger and better publication.

HOW TO TUNE A SET CORRECTLY

Read This Page Carefully and You Can Set Your Dials Accurately for Any Station in America

ALL stations in America are listed in RADEX in three tables:
1st by Frequencies.
2nd by Call Letters.
3rd by States and Cities.

The Index by Frequencies is the one to be used, the other two are merely supplementary.

Let us assume you have just bought your first RADEX. Proceed as follows:

Tune in some station — any station that comes in. Tune it sharply, turning down your rheostats (Volume control) until we find the marks on your dials at which it comes in most clearly and with greatest volume.

Let us assume that the station we are hearing is WEFW in New York. First we must ascertain the frequency for this station. Look it up under WEFW in the Index by Call Letters or under New York in the Index by States and Cities. In either of these indexes we find that the frequency of WEFW is 660. Now we turn to 660 kilocycles in the Index by Frequencies and Dial Numbers. Here we find that WEFW is one of the two stations which have been assigned the 660 key, frequency by the Federal Radio Commission. We also find that it has a power of 50,000 watts, that it is located in New York City and is owned by the National Broadcasting Co., Inc.

In the blanks for dial numbers opposite 660 kilocycles (which is the wave length of 454.3 meters) enter the dial readings of your set. It is immaterial whether your set has one, two or three dials. Use as many of three spaces provided as you need. The set used in the illustration had two dials. In this case we entered the dial readings for 660 kilocycles as 69-67.

Let us now tune in some other station. We repeat the same procedure in tuning and find that we are hearing, let us say, WOS at Jefferson City. Proceed as before in ascertaining the frequency of WOS. This we find to be 630 keys. We turn to 630 in the Index by Frequencies and enter our dial readings for this band which on the set we are using was 72-70.

We now have found that the dial numbers for 630 keys, are 72-70 and the dial numbers for 660 keys, are 69-67. If we now will set our dials for 70-68 it is obvious we will have our set tuned for 650 keys. We listen carefully and if they are on the air and within range of our set we will tune in WSM of Nashville at this point. We then enter the dial readings for WSM opposite 650 keys. Now it is

clear that if we reset our dials at 71-69 our set will be tuned to 640 keys, and at that point KEI of Los Angeles will be heard, always assuming, of course, that it is on the air and within range of our particular set.

Now we tune in some other station, proceeding as before until after an evening or two, we have blanks filled on every page. We are now able to set our dials for any frequency we desire and consequently any station we may want whether we have ever received it before or not.

Our index now becomes of great value to us in identifying programs. Let us say that we hear music at 67-65 on our dials. We refer to our Index by Frequencies and Dial Numbers and we find that we are in tune to 680 kilocycles. On this wave there are two stations, KFO at San Francisco and WFTF at Raleigh, N. C. Both of these stations have 5000 watts in power. But knowing which is the closer to our set, we can tell almost invariably which station we are hearing. The Radio Commission has had to give the same frequency in most cases to several stations but they have distributed them geographically so they should not interfere. When two stations in the same locality have the same frequency, they are required to divide the

time. In this case, of course, it is not possible to tell which one of the two stations is broadcasting at the particular moment we hear it, but we do know it is one or the other of them.

The second column in the Index by Frequencies, as we have seen, gives the power of the station as measured in watts. This power also aids us in identifying stations as we will not ordinarily hear those stations with 500 watts or less unless they are close to our home city.

The Index by Call Letters also has spaces providing for logging dial numbers, but these are provided merely for the convenience of those who want to be able to turn instantly to some favorite station. They may or may not be used as you desire. Remember that it is the Index by Frequencies that we must use to get the most value and pleasure out of our radios.

The Index by Frequencies is now printed with marginal tabs. If you will fill in under the word "dial" your reading for this particular frequency, you can then turn instantly to any frequency desired. Take a pair of shears and cut along the dotted line as shown.

INDEX BY FREQUENCIES AND DIAL NUMBERS

Frequency (kilocycles)	Wave Length (meters)	Station	Power (watts)	Call Letters	City	Dial 1	Dial 2
590	508.2	Spokane, Wash.	500	KRDA	Spokane, Wash.	76	74
600	497.7	Providence, R.I.	500	WPRO	Providence, R.I.	75	73
610	491.5	New Providence, Conn.	500	WVBT	New Providence, Conn.	74	72
620	483.6	Providence, R.I.	500	WPRO	Providence, R.I.	73	71
630	473.9	Jefferson City, Mo.	500	WOS	Jefferson City, Mo.	72	70
640	464.3	Los Angeles, Calif.	500	KEI	Los Angeles, Calif.		
650	454.3	Nashville, Tenn.	500	WSM	Nashville, Tenn.	69	67
660	454.3	New York City	50,000	WEFW	New York City	68	66
670	447.3	Chicago, Ill.	500	WLS	Chicago, Ill.	67	65
680	440.9	New Providence, Conn.	500	WVBT	New Providence, Conn.		



Sometimes I think there ought to be a law to make everyone do a little studying every week. I didn't think that a year ago because it looked like all the cards were stacked against me. But I am certainly rolling in the money now. Maybe my story will show you the way to larger earnings also.

I Thought Radio Was a Plaything

But Now My Eyes Are Opened, and I'm Making Over \$100.00 a Week!

\$50 a week! Man alive a year ago I thought anyone making that much was just plain lucky.

Twelve months ago I was just barely getting by. It was the same old story—a little job; a salary as small as the job.

If you had told me that twelve months later I would be making \$100 a week in my own Radio business—I'd thought you were crazy.

But I am getting ahead of my story—let me tell you how it all started. I was hard up a year ago because I had been kidding myself—that's all—not because I had to be. I thought a fellow either had to be lucky or have a string of college degrees a half a mile long to make good money.

One day I picked up a magazine and the headline of an ad attracted me because it seemed to fit my case. It said, "I will show you how to start a spare time or full time Radio business of your own WITHOUT CAPITAL."

"They're trying to kid somebody," I thought, "but I'll find out what it is all about anyway."

I wrote in and within a few days received a 64-page book telling about the opportunities in Radio, how I could prepare right at home in my spare time, and how they would show me how to start making money in my neighborhood selling and repairing Radio sets and doing other jobs. It would probably have sounded too good to be true if the promises had not been backed up by 100 letters from fellows who had taken their course and were very enthusiastic about it.

What has happened since seems almost like a dream to me now. I took their course and in about a month I was ready to start making money in my neighborhood—as much as \$20 and \$30 a week. It wasn't long until I had saved enough money to start a little business of my own.

That business has since grown to the point where I am clearing an average of \$100 a week. All this took place under the watchful guidance of my friends at the National Radio Institute. They also offered to train me for other lines—in case I wasn't interested in having my own business. Broadcasting stations, Radio Manufacturers, Operating on Board Ship, Servicing Sets, Aircraft Radio, Tele-

vision and Talking Movies are other fields their training covers. And to think, until the day I wrote for that book, I'd been wailing, "I have never had a chance—will never have one because I have no pull and have never had the advantage of a good education!"

Friend— you may not be as bad off as I was—but think it over—are you satisfied? Are you making as much money as you need? Would you sign a contract to stay where you are for the next ten years—at the same salary? Those are the things you have to think about—because no one is going to make it his business to push you ahead—you must make it your own business.

Take my tip—write for their book. It won't cost you anything—only a two-cent stamp. It shows you a lot of things which I don't believe you know now—a lot of facts and figures on the opportunities in this new, fast-growing field. Where the jobs are, what they pay, how to get ready for one. Beginners as well as experienced men are making as much as \$1,000 to \$2,000 a year more as a result of N. R. I. training. You place yourself under no obligation because the book is free and is gladly sent to anyone who is ambitious and wants to get ahead. Just address J. E. Smith, President National Radio Institute, Dept. 2B0, Washington, D. C.

J. E. SMITH, President,
National Radio Institute,
Dept. 2B0, Washington, D. C.

Dear Mr. Smith:

Send me your 64-page free book, which gives information on the opportunities in Radio—Operating on Board Ship, in Broadcasting Stations, Commercial Land Stations, Set Servicing, Radio Manufacturing, Aircraft Radio, Television and Talking Movies. I understand this request places me under no obligation and no salesman will call on me.

Name.....

Address.....

City..... State.....

Please mention RADEX