

THE JANUARY 1932

RADIO INDEX

WHAT'S ON THE AIR TONIGHT?



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**Many Changes in Mexico
How to Buy a Radio Set
The Short Wave Stations of
North America**

No. 55

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JANUARY 1, 1932



RADIO INDEX

REG. U. S. PATENT OFFICE

FRED CLAYTON BUTLER

Editor and Publisher



EIGHTH YEAR

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BUYING and SERVICING A SET

MOST people discuss, examine and test, radio sets with the same precise seriousness they exhibit when purchasing a fine motor car, yet they will spend equally as much for winter clothing with hardly a passing thought. A radio set no longer is an expensive luxury, but its selection becomes a matter of importance. And in spite of this caution many persons fail to procure sets that give satisfactory performance. Consequently, we sometimes hear opinionated and unjust tirades on the fallacies of radio. Much of this trouble can be avoided, but it remains for radio dealers and servicemen to set their own houses in order.

The prospective purchaser of a radio set, if he is a novice, is soon befuddled when he wanders past the many radio stores while in search of a new receiver. He sees the brilliant signs that loudly proclaim to passersby that one may become the lucky owner of a fine 7-tube "Staticette" radio set for the sum of only \$46.95; on another store front he is told that the same set sells within for \$56.50; then, when finally at home after a weary afternoon, he reads in the evening paper that a local house-furnishing store has arranged for a carload of 7-tube "Staticettes" to be sold at the sensational price of \$36.75, and only five dollars down! Then, to climax the uncertainty, the bewildered prospect picks up a magazine and reads that the manufacturer's price is set at \$56.50, and the usual ballyhoo states that the 7-tube "Staticette" is the world's newest model.

High-Pressure Salesmanship

The next day our brave adventurer goes forth to buy a radio. He soon falls an easy victim to a high-pressure radio salesman; he rushes home with a gorgeous masterpiece, complete with five of the latest tubes, guaranteed by the salesman to do the work of eight. The name of the set really does not matter; it cost only \$29.95. Then follows tragedy—an evening of squawks and howls, while double-voiced broadcasters talk huskily from deep down in a well that seems filled with many com-

Helpful Hints by B. Francis Dashiell

peting announcers and musicians. The next day our chagrined and exasperated purchaser again returns homeward after a hopeless argument with the bland and alibi-oiled salesman. So, as a result, this home now has a radio that is neither good-for-nothing nor pleasant to use—it is never turned on.

Then, too, there is another picture that should be painted—that of the owner of a perfect set, who, for some reason or other, has been compelled to send it out to a serviceman for minor repairs or adjustments. Perhaps a clicking sound was due to some loose connection, and a drop of solder would be the magic wand to make the set as good as new. But the unknown repairman was ambitious; he needed money, and was a brother-under-the-skin to the high-power radio salesperson.

When the Set Came Back

When the receiver at last went home it had been given three new tubes, a replacement in its powerpack, adjustments to the speaker, and perhaps the shaft and dial had been rebalanced. And the cost of this highly technical work was twenty dollars! As soon as the receiver was connected, it howled, rattled in the speaker, brought in old stations at new dial settings, used only half of the scale, and otherwise appeared generally ruined. The indignant owner, after a strenuously warm session with the serviceman, decided nothing further could be done about it, and returned home sadly to gaze upon a perfectly useless radio set.

We all know how automobile owners have experienced similar feelings, for many valuable motor cars have gone into the shops for adjustments, only to come out with valves and timing tinkered with so as to ruin the smooth purr of the engine, with grease and marks over the body, and generally maladjusted throughout. The same situation exists with radio in one or two spots in

every locality. Some inexperienced persons working as expert servicemen, just as blacksmiths become garagemen over night during the first days of motor cars, give the black eye to the legitimate servicing business. Few people, unfortunately, are in a position to judge the abilities of the repairmen they select, and there is no law or regulation making mandatory the registration and licensing of men permitted to work on valuable radio and automotive apparatus.

The Ideal Set

Since buying a radio set is a matter of great moment in most homes, everyone wishes to have a receiver that gives a fine tone and has excellent reproduction. It must have high selectivity and be able to pick up stations from afar, free of noise and static, neat to look upon, and lastly, it must be reasonably priced. While these ideals are best kept in mind when buying a radio, it must be remembered that the radio millennium has not yet been reached!

Unless a purchaser knows just what he wants, either from observation of other receivers that are known to give excellent results, or practical radio experience, it is well to follow the old adage about "making haste slowly." The uninitiated purchaser might do well to examine the sets displayed on the floors of old and trusted stores; it is not always necessary to go to unknown radio dealers. Radio sets are classed as furniture and are handled as such by many large stores. A concern known by its honesty and integrity will give a fair deal, and do everything within its power to make satisfied customers. There is too much competition in radio these days to permit the accruing of permanent profits through unfair salesmanship. The writer recommends, however, when possible, to deal with established radio stores where the personnel is well versed in radio, but one should avoid the "fly-by-night" sales and outlet houses that can never make good their exaggerated claims.

One of the most confusing situations to confront radio purchasers is the matter of price cutting on similar receivers in different stores. When an established price is set by the maker for

a certain model, then dealers are bound to sell at that price. But the thought that seldom occurs to the buyer is that these sets of equal numbers of tubes selling at different prices are not similar receivers. They are different models which have appeared at various times from the factories of the makers. The older the model, the lower the price, yet on the surface the sets seem to be one and all the same. Manufacturers make several types of sets within similar cabinets, and the newest have improvements and refinements not to be found in previously issued receivers. How to



Ann Leaf, the charming and talented organist, has found the ideal studio costume—so much more comfy than formals.

guard against this form of window display advertising deception by certain dealers is a matter that cannot be prescribed for; the purchaser must rely on the advice of the more honest and conscientious dealer, or by personal examination and study of the characteristics of the set he desires to buy.

No one can advise what set is best to purchase. It is always safe to select one that is being nationally advertised, and known to be tried and tested in the fire of time and public opinion. If the dealer actually is behind the product he handles,

(Continued on page 28)

PUZZLES IN RADIO CALLS

A Challenge to Keen Wits

THAT Puzzle No. 1 in November made a lot of readers work pretty hard for their free copy.

"The first one last month sure was a dandy," comments Herbert Bryan, 909 W. Hughitt St., Iron Mountain, Mich. "The most tedious I ever encountered," is Walter Reck's opinion of the same puzzle. His address is 2110 Loth St., Cincinnati, Ohio. "Three o'clock in the morning found me almost smothered under reams of scratch paper," he adds. "Would like to try solving more of that type." "Anyone that works this nightmare, deserves a year's subscription," opines T. J. Johnson, Bowlegs, Okla.

"Your puzzles are always varied, unusual and extremely interesting," thinks Lieut. Gordon R. Jackson, 420 North Pasadena Ave., Pasadena, Calif. "Please continue them."

Answers for December

Following are the calls used in No. 1 by Earl R. Roberts: By some oversight we failed to mention the most important part of Mr. Roberts' puzzle which was that the last column was to spell a state. How many noticed that the word "Jalisco" appeared in the last column?

K
WS
WMC
WRBJ
CMBA
CMBL
WKBI
KLS
ZC
O

In No. 2 the following calls appeared in order: WOI- WNAC-WOR-WORC-WLEY -WOL -KFYO -NAA -WEBR - WASH-KONO-KIT-WHIS-XEV-WGN-CHCA - TIC - XET - XETO - KROW - WELL - WHA - WHAT - WIL - WILL - WEW-XED-WENR-VAS-RUS-CJRM-KORE-KY-KYW-WILM. Thirty-five calls in all; how many did you miss?

No. 3, by T. J. Johnson, was correctly filled in as below:

C
CMX
CMKEX
CHWCKFC
WHKLX
KOMO
C

Well December is past. Better luck in January. Get the answers to the three problems which follow to us by January 20th and receive your February RADEX or a map free. Your subscription will be extended one issue instead if request is made. Unless otherwise mentioned, all calls are from the main index of the December issue of RADEX. Corrections are made in the index in January after the puzzle page is compiled and hence may not agree with the definitions given.

January Puzzles

Number 1: Fill in the squares vertically from the top down, with the call letters of eight stations, and the names of two states will appear horizontally from left to right.

W	□	W	□	W	□	C	□
□	□	□	□	□	□	□	□
□	A	□	D	□	F	□	C
□	□	□	□	□	□	□	□

Number 2: Here is an elimination puzzle: How many stations, listed in the Index by Call Letters in the December RADEX, can not be made from the letters in the following sentence, using any letter only as many times as it appears in the sentence? "Can the quick brown fox jump over a few lazy black dogs?" Send in a list of the stations which cannot be made from this sentence.

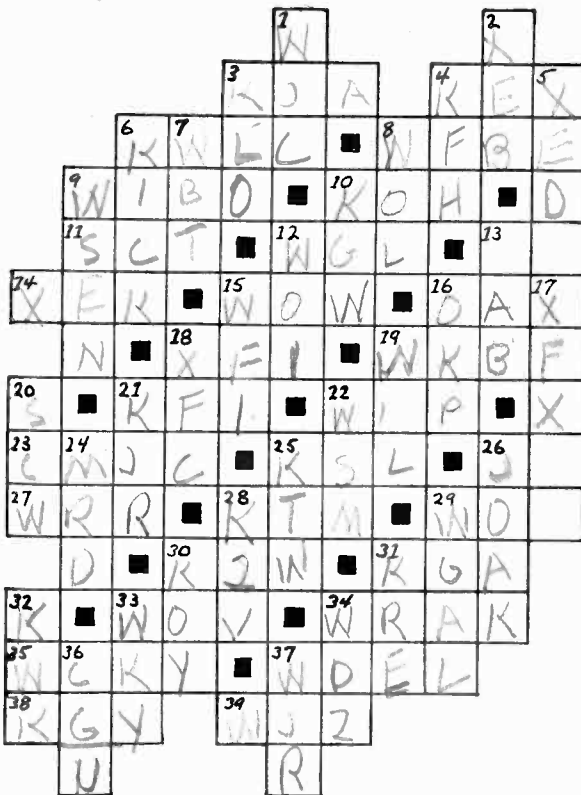
Number 3: A cleverly designed and symmetrical cross-call puzzle is presented by George Raba, Stevensville, Mich. There are no reverse calls used, but Mr. Raba has taken a few from the list of World stations published in the October RADEX. All others will be found in the regular index of the December issue.

Horizontal

- 3 12,500 watts.
- 4 In Portland.
- 6 Shares time with only 50-watter in the state.
- 8 On 1200.
- 9 Top of the dial.
- 10 In the "Great Divide."
- 11 In Uppsala.
- 12 In Ft. Wayne.
- 14 101 watts.
- 15 "Woodmen of the World."
- 16 In Lima.
- 18 1000 watts Mex.
- 19 Shares time with Purdue.
- 21 50 K. W.
- 22 Gimbel's.
- 23 150 watts Cuban.
- 25 Three in this state.
- 27 City-owned CBS outlet.
- 28 500 watts Western.
- 29 Formerly a key station.
- 30 An Agricultural Foundation.
- 31 Spokane.
- 33 1000 watts metropolitan.
- 34 100 watts Pennsylvania.
- 35 L. B. Wilson, Inc.
- 37 Last three letters are first three of state.
- 38 St. Martin's College.
- 39 30,000 watts.

Vertical

- 1 Synchronized.
- 2 A Mexican among three Canadians.
- 3 In the West.
- 4 CBS outlet sharing time with K. C. station.
- 5 Nine Canadians on this wave.
- 6 Red Oak Radio Corp.
- 7 Charlotte.
- 8 Washington.
- 9 Ohio.
- 10 The Oregonian.
- 12 State College of Agriculture.
- 13 In Canton.
- 15 On same wave as 9 horizon.
- 16 In Czecho-Slovakia.
- 17 500 watter across Rio Grande.
- 18 350 watts.
- 19 On 1200.
- 20 In Ormskoeldsvik.
- 21 In Washington.
- 22 National Life & Accident.
- 24 In Toulouse.
- 25 First Presbyterian Church.
- 26 In Tokyo.
- 28 Shares time with 200-watter.
- 29 In Pennsylvania.
- 30 Nielson Radio & Sporting Goods.
- 31 First in California.
- 32 On the banks of the Mississippi.
- 33 In Oklahoma.
- 34 James L. Bush.
- 36 Last three letters of U. S. Broadcasting Corp.
- 37 A channel to itself.



Turning Back the Pages of Time or When Radio Was an Infant

While in a reminiscent mood, Ray E. Everly, 102 West Washington St., Newton, Ill., got out an old 1925 copy of RADEX. "I found some things that will recall the good old days gone by for

our pioneer DXers and compiled the following article for your consideration:

WHT (Wm. Hale Thompson) was a Chicago station.

WJAX was in Cleveland, Ohio, instead of Jacksonville, Fla.

WOO was located in Philadelphia.

WSOE was a School of Engineering in Milwaukee.

WAAE was in Oak Park, Ill.

WMBB was in Chicago as well as WBBM.

WCCE was in Elgin, Ill.

WREO (Reo Motor Co.) was in Lansing.

PWX was the call for CMC.

KFKX was in Hastings, Nebr., not Chicago.

KFON was a popular station in Long Beach, Calif.

KOPF was the Detroit police station.

WAIT in Massachusetts.

WGO and WQJ were in Chicago.

WRM was not WILL then.

WTAP was in Cambridge, Ill., instead of Texas.

WTAD was in Carthage, Ill., not Quincy.

WVI was Ford Motor at Dearborn.

KDPM was Westinghouse in Cleveland.

WCX was what WJR is now.

AA3 was the present KFUP.

CY was the Mexican call instead of X.

WAAE was in New Orleans, not Boston.

WCBE was on a farm near Elgin, Ill.

WEAR was Goodyear Rubber in Cleveland.

2AB, 2CX, 5EV, etc., were the Cubans.

"Hello, Everybody; this is KATE SMITH"

An Interview by
SUSIE SEXTON

WHEN the swinging doors of the broadcasting room in the New York studios of the Columbia System banged behind her with a boom on Monday night, at the end of the La Palina program, broadcast over a network of twenty-eight stations, Kate Smith—two hundred and twenty-seven pounds of blonde good nature wearing spectacles—stepped out into a group of admiring song-writers with wistful eyes.

No, they were not those smart Oxfords. Just silver-rimmed "specs" such as any self-respecting grandmother might wear over her ears. Kate wears them as a disguise continually now, except when she is on the stage in the theatre or in her own home. She just grew tired of having men and women stare into her blue eyes wherever she went. People are rude that way.

This great big girl of radio can claim all the best Swanee traditions save one. That's langour. There is nothing tropical about her happy-go-lucky gestures. She moves and acts with the rush and crispness of a northern gale. Or an airplane propeller at top speed.

Out in the open spaces of the corridor she waltzed, two-stepped, tangoed and dipped until the elevator arrived. No handsprings. Always humming a Southern melody. Without a song Kate Smith could not breathe.

A short ride to her apartment on Park Avenue, a penthouse. Kate tapped, shuffled, clogged and hummed her way across the lobby and was whirled to the roof. Her song preceded her evidently.

"Hello, Baby," shouted Al, a South American baritone, as soon as her key turned in the lock.

"Come on in, Big Girl," trilled Ben, a tenor from Panama. The tenor and the baritone are the singing parrots of the Smith family. Not sacred, but never profane. Their owner, who does not smoke nor drink, will not tolerate profanity either. Occasionally Al comes

out with "Oh, God," and is promptly silenced.

A life-sized St. Bernard—done in wool—crouched under the grand piano in a protective manner that would have given any two-gun man a chill. Under the radio curled a fluffy cat. Mickey Mouse in scarlet breeches wagged his rubber tail in the corner. Kate loves animals as well as she loves people. But she has to be content with reproductions on a New York roof.

French doors opened on a terrace banked with evergreens. A rhythmic but unusual chirp broke the October stillness.

"Crickets," shouted Kate. "Climbed fourteen floors to get here."

The radio was going full blast.

"Never shut it off day or night," laughed Kate in her hearty contralto. She turned the dial to fortissimo, or more so.

A red moon hung over the one hundred and fourth story of the Empire State tower, down yonder.

"Where did you get the idea for your theme song, 'When the Moon Comes Over the Mountain?' I asked.

The Birth of a Song

"From watching my own Virginia moon rising hundreds of times as a young girl," she said. "Riding through the country during the Spring or Autumn I always waited for the rising of the moon over those mountains. It is one of the loveliest sights in the world. Every time I saw it I felt like singing. So the words came naturally when I sat down to write the lyric with Howard Johnson. You know I was born in Virginia—a little town called Greenville. The family moved to Washington when I was six months old. But I always went back and forth. Still do."

Incidentally, "When the Moon Comes Over the Mountain" has attained almost as great popularity as the writer. Three quarters of a million copies have been sold in sheet music and 200,000 phonograph records. About 90,000 copies of her other hit, "Making Faces at the Man in the Moon," have been sold.

Then Kate told me how she came to

be called "the songbird of the South." That description has followed her name on every program since she first appeared professionally. It dates back to the time when Kate was about two hundred pounds easier on the scales and eighteen years younger.

One afternoon the Blue Devils of France thundered down the streets of Washington with snappy tread and clicking heels. As the band struck up a tune in the distance there was a crash in the Smith's back yard. A doll carriage was overturned and all the tea things shattered to bits on the stone flags. Suddenly a pair of chubby legs emerged from the debris, kicking heavenward. They righted themselves with disastrous results in the pansy bed. Then started on a run for the front gate.

It took some little effort for young Kate to propel her dimpled knees to the top of the gate. But like most determined women, she got there. She straightened her petticoat and the bow on top of her blonde curls. Her eyes shone.

When the blue ranks of the Frenchmen swung into view there was Kate to greet them. She was singing at the top of her voice "Oh, How I Hate to Get Up in the Morning."

The Frenchmen saluted with their eyes. It was great. Indulgent passers-by smiled on the plump youngster and murmured:

"Listen to that little songbird."

Years later when Kate was pulling out of the national capitol to make good in New York in that musical show "Honeymoon Lane," her mother called her back.

"What is it, Mother," inquired Kate.

"Don't forget, Kate," said her mother, Mrs. Charlotte Smith, "they always called you 'the little songbird' down here."

And that is how she came to be billed everywhere as "the songbird of the South." Although she never took a music lesson and cannot read a note. No longer little, she is still the kind of girl who likes to please her own or anybody else's mother. So the name has persisted through her appearances in vaudeville and such productions as



From left to right, Kate Smith. No wonder folks think "a lot of her."

"Flying High" during the six years of her professional career.

You'd never believe it, but Kate hates to be introduced in public and blushes when she has to take a bow. Makes her feel funny she says.

She gives a lot of credit to her manager, Ted Collins, vice-president of the Columbia Phonograph Company, who looks as good-natured as Kate herself.

"I owe a lot to Mr. Collins," says Kate. "And to Jack Miller, who plays my accompaniments. But, if course, if I had not had a good voice I would not have succeeded even with their help."

Those memory songs? Only two percent of Kate's audiences do not like them. The other ninety-eight raise the roof with their cries for more.

The most popular? "When You and I Were Young, Maggie," with "Silver Threads Among the Gold" as runner-up. That tuneful "Harvest Moon" takes third place.

If you think "Swanee River" is the most popular Dixie melody, you're greatly mistaken. There are thousands yearning for the Carolinas—moon, gal, and all.

TUBES and TUNING TROUBLES

Editor's Note

The diagnosis of radio troubles at long range is rather difficult unless we have the essential facts which must be considered. Our readers can assist us by giving complete details, especially, the exact style, model, number and make, of the receiver and tubes. Don't be afraid to tell us too much; we like to read your letters. Also, remember that the local "serviceman" has a distinct advantage over our "long-range prescribing" because he has the set before him, and, therefore, we are frequently compelled to recommend his services for making meter tests, voltage analyses, alterations, replacements, and general repairs. We spare no efforts to find the solution of your problems, and this service is free to the readers of RADEX who may choose to use it.

Tubes Are Antiques

My Fada eight-tube set tunes too broadly. I bought it in 1929 and it still has the original tubes. I have received over 400 stations, but now the receiver does not work as well as it used to. What shall I do?

This receiver appears to be about three years old, and few of the models of that day will tune as sharply as the newer and modern super-heterodynes. But, because of the age of the tubes, we are inclined to feel that they are much too old for further efficient operation. It is suggested that you have them tested and replaced with new ones. This will do much toward sharpening up the tuning of your set. Nowadays, however, station interference makes it well-nigh impossible to receive a distant station without some cross-talk interference, and this gives a set the appearance of having rather broad tuning facilities.

Perhaps you have too much aerial. About sixty feet in length should be sufficient. A small fixed condenser (.00025 microfarads capacity) in series with the aerial and the set should make the tuning less broad.

Changing Radiola's Power Tubes

I have a Radiola 30 receiver which has given good service, but I wish to replace the present -10 power tube with a -71A. How can I do this?

With Suggestions by The TECHNICAL EDITOR

When the -71A tube is plugged into the socket intended for the -10 power tube, the filament is overloaded by $2\frac{1}{2}$ volts, which is sufficient to burn out and destroy the tube. This voltage must be reduced before the -71A can be used in place of the -10 tube. Open one of the A leads to the filament lugs on the socket and insert a 25 ohm resistor in series with the circuit. This will permit approximately five volts on the filament of the -71A tube—its correct working voltage.

The plate of the -71 tube will, however, be connected to a higher plate voltage than necessary for its proper operation. There is no satisfactory arrangement whereby 135 volts may be picked off the powerpack. The higher voltage may make no difference for the plate feeds an output transformer which prevents the flow of direct current into the speaker windings. But heating of the -71A tube may result. The tube may be operated on 90 volts, and this source can be taken from the ninth binding post in the right-hand compartment (the one that connects to G of the -91 tube). Connect to the end of the output transformer opposite to the end of the same primary coil that connects to the plate of the -71A tube. Cut the present wire connecting the end of the primary coil and let it remain disconnected.

Additional Battery Speaker

I am anxious to attach an additional speaker, of the battery type, to my present electric set. How should I go about this?

A battery speaker, or magnetic type, may be attached to an electric set using the dynamic type of speaker in much the same manner as head-telephones are connected. Several articles have appeared in RADEX showing how these connections are made—follow the same method for your battery speaker. Or the speaker coil may be connected across the primary of the output transformer that feeds the voice coil of the dynamic speaker.

Hums and Howls

My Victor R-22 gives a low hum from the -27 detector tube when loud static or signals go through. I sometimes have to remove the tube to stop the noise. How can this annoyance be stopped?

This trouble, no doubt, may be classed as microphonic. When the -27 tube, or detector, is agitated either by external vibrations or internal current surges because of extremely powerful static outbursts or signal notes, it breaks into oscillation with resulting hums and howls. The tube should be covered with a metal screen which should be grounded. There is also a howl arrester that is sold by dealers, and when it is slipped down over the offending tube the howl usually ceases. Also, there is the real probability that the tube has served its purpose and may require replacing.

Those Variable-Mu Tubes

Is it practicable to change the -24 tubes in my Lyric set over to the new -35s?

You have not given the particular model number of your Lyric, but in this case we believe the change can be effected by using adapters made for the purpose. While there will be little gain in efficiency you may notice somewhat better selectivity. The change cannot injure the receiver. See the article in December RADEX which deals with the change in question.

An Additional Speaker

I have been using a battery set and have wires running about the house for a portable Baldwin speaker with horn. I now have a super-heterodyne set made by Montgomery Ward, it is a. c. operated, and has seven tubes and dynamic speaker. Can I continue to use my Baldwin horn around the house?

You cannot use the Baldwin speaker with your new a. c. set with the same degree of satisfaction as with the old battery receiver. The proper speaker to use with an a. c. set should have the same



The Paul Sisters, harmonizing team, who are heard with Phil Spitalny during the Tea Dansante programs. Julia is standing and Ruth is seated. (NBC-W EAF network, daily except Saturday and Sunday, 4:30 to 5:00 p.m., EST.)

characteristics as the dynamic speaker built in the receiver. Otherwise there will be distortion, since the two speakers are not matched, and this is more pronounced when using a horn type speaker. Of course, you can use the speaker, connected to the a. c. set as explained elsewhere in an answer to another question in this department.

Receiver Loses Volume

Can you tell me why it is that my Majestic receiver, model 25 chassis, loses its volume at least one-third within a few minutes after turning it on? Stations that are heard the first one or two minutes are lost later as the sound diminishes.

Such conditions are almost invariably due to faulty tubes. We suggest that you have each tube carefully tested by your dealer, paying especial attention to the power tubes and the rectifier. It takes some time for some makes of tubes to warm up and there may be a critical operating temperature in one or more of your tubes. When this point is reached reception is best, but as soon as the tube becomes too warm it loses sensitivity. This fault is not unknown. Then, too, a defective automatic volume control circuit frequently causes trouble such as you describe.

Aerial Too Long

My aerial is about 150 feet in length. I have a ground to a buried copper pipe, and this seems to work better than a ground to the water pipes. What is your opinion?

The aerial is entirely too long; it should be cut down to not more than 60 feet in length. This will, without question, give you better selectivity, but you may lose some volume on distant signals. Your ground is satisfactory, but in all cases a good water pipe ground is better than a buried ground, for the water pipes run about for miles underground. We do not understand your failure to obtain good results with the water pipe ground. Have you made sure the connections are mechanically and electrically perfect?

Fuses Blow Out

When my electric fuse blows out when my radio is switched on what causes it to do so?

There is a short circuit on the line and a sudden surge of amperage flows

through the wires. The capacity of the tiny lead wire in the fuse cannot stand the overloading, it becomes hot, and quickly melts, thus opening the circuit and saving the apparatus from destruction and damage. The fuse is a protective device. When it burns out because of a radio short circuit, one may look for trouble in the power transformer of the receiver, for this coil, the primary, is connected across the 110-volt power lines with a control switch in series with the connecting cord. The transformer should be tested for a ground or short circuit. Or there may be some trouble in the switch or some of the wiring of the 110-volt circuit.

Condenser Capacity

How may the layman determine the capacity of the large condensers in the radio set?

It is practically impossible for the layman to determine the capacity of the condensers in the set. A complicated mathematical formula is used, and it is necessary to know much about the construction of the condensers before applying the constants and factors of the formula. Otherwise, one must have certain meters and measuring devices in order to find the condenser capacity.

Loud Volume Uses More Current

Does a radio receiver use more current when the volume is turned all the way up to its loudest intensity?

When a radio set is turned up full strength it is doing more work than when it is turned down to a low tone. Work, of course, cannot be done without the expense of some form of energy, and in the case of a radio receiver, this energy is provided in the form of an electrical current. The set, therefore, consumes more current and is slightly more expensive to operate at full volume. The total consumption of current, even at full strength, is slight, and the additional expense may be considered almost negligible, unless you are using costly B batteries in a powerful battery receiver.

Short Circuits in Power Transformers

What is the result of a short circuit between some of the turns of wire in the
(Continued on page 30)

In the WIDE FIELD of RADIO

“The time has come . . .
to talk of many things”

WELL, here we are again in the regular monthly meeting of the RADEX Radio Club. The minutes of the previous meeting will be approved without reading and we will proceed to the discussion of new business.

Our readers will remember that we published last month an intimation of a shake-up in Mexico. Well, the list of Mexican stations furnished to the *Newark News* was evidently right and our hunch was wrong. We are now in receipt of an official list from the Mexican Government of broadcasting stations in that country and we find 14 Mexican stations now on 1000 kcs. Why so many of the Mexicans want to bunch together on this particular frequency is beyond us, but there they are and we are correcting our records accordingly.

Samuel F. Owens, 233 Roberts Ave., Glenside, Pa., has this to say: “Under a heading ‘Commission Swings Axe’ you delete WIBO, WPCC, WNJ, WHOM, WCHI, WJAZ and WMBA, yet you still list them in the index. Rather contradictory, is it not?” Unfortunately, action by the Commission isn’t always final. Most of these stations have appealed to the courts and secured injunctions pending hearings. Thus, while they are deleted according to the Commission’s records, they are still on the air and consequently are listed in the index.

Aerial Length Again

Mr. Owens has this to say about the length of aerials: “This business of shortening aerials is hokum. It was all right in the old days when sets weren’t so sharp, but with a present-day set, the more aerial the better. I’m using 280 feet now and have five-ke selectivity every place except on 1170. WCAU is only four miles from me. Can get 1160 and occasionally 1180. WOAI booms in. Just a little home-made super with automatic volume control. Eleven tubes in all, counting the extra rectifier for the speaker. A Jensen Imperial. Now have 492 stations with 435 verified, a nice

jump over last month. The verified list includes KGFJ, KPCB, KGAR, KXRO, etc. Received my verification from XEQ (received on 750) and they sent me a ten-spot (ten pesos, worth about five cents American).

Karl J. Halpern, 1435 Coney Island Ave., Brooklyn, N. Y., also disagrees with Max Plung about long aerials, and he ought to know, for Karl uses one 700 feet long and reports his reception as excellent.

“RADEX is right,” confirms Samuel F. Owens, 233 Roberts Ave., Glenside, Penna., “WFDV is on 1390 kcs. I picked them up and verified them on 1310, though they still use cards with 1370 on them.” And then, for fear we will think too much of ourselves, he adds: “Maybe you think there aren’t any mistakes in RADEX but I can find plenty. Just received my December issue this morning so haven’t had time to find them yet, but I’m going to think this thing through and see how much I can find wrong with it.” RADEX doesn’t profess to be



Red of hair and blue of voice, this decorative young woman is Columbia's latest find. A contralto, she answers to the name of Verne Burke. (Sundays, The Chicago Knights, 6:00 to 6:30 EST.)

more than 99.9% right and we always welcome the pointing out of the other .1% by our readers. In fact we depend upon them to keep RADEX up to its standard.

Mr. Owens submits the following answers to other readers: "For Gordon H. Wightman, his station is XEB. For Virgil Engleman, his station is XEN. (While XEN's verification gives 711 kcs. as their frequency, they actually come in on 705.) Mr. Engleman heard the news report. Each item is separated by the sounding of the bell. They always announce their call in Spanish very slowly before signing off. Don't know what the idea of the train is."

Double Calls

"Why do several stations list two call letters for the same equipment, such as WABC-WBOQ, KYW-KFKX, etc.?" asks Howard Spies, 1217 Louisiana Ave., N. W., Canton, Ohio. Such doubling up of calls usually indicate two stations that have been merged. The extra call is sometimes retained, for what reasons we do not know unless it has some value as a basis for a second station if it is desired to start one later. C. M. Falconer suggests that we indicate these stations so our readers will not keep trying for a station that exists only as a call. We are following this suggestion and indicating by small letters, such as a, b, c, those stations which are really one.

"Why do you not give us the list of world stations in each issue?" is the query that comes from several of our readers. There are no changes from day to day in the world stations as there are in those in North America, or at least no central medium for ascertaining such changes. The list would therefore be just a duplication of the one in the previous edition and this seems an unnecessary use of good space. We will continue to give the world list at frequent intervals, first by locations and then by frequencies. The issues containing these lists should be marked by our readers and saved for ready reference. A complete new list is due this month from the International Bureau of the Telegraph Union at Berne, Switzerland. As soon as this list is received, it will be arranged for publication in the first issue thereafter.

A new re-allocation of wave lengths is under way that will affect all American stations on short waves. This will be as sweeping a readjustment as that of broadcasting stations in November, 1928. It will be published as soon as available. In the meantime we are publishing the present list as far as we have been able to secure it.

"May we inform you officially that we have adopted the RADEX map as the official map with which to determine airline distances from city to city?" writes A. W. Oppel, Vice-Chairman of DX Qualifications of the Newark News Radio Club. "The RADEX map is considered by this committee as the most reliable map to determine these distances as a basis for awarding our 'Super-Ace Certificates.' Mounted on cardboard and nicely framed, your map is at all times hanging on the wall of the auditorium of the Club." The NNRC now has over 1000 members, divided into five grades, according to their records. To become a Super-Ace one must have 500 stations verified, including fifty 2000 miles or more distant. Meetings are held once a month during the DX season and the club has a page of its own every day in the *News*.

Some Kind Words

Dale C. Kellogg, R. D. 2, Norwalk, Ohio, takes exception to our slogan "Doubles the Pleasure of Radio." He says it tripled theirs! With his new Atwater Kent he has brought in 172 stations in six months, having at least one on every channel except 540, 1010, 1030 and 1380.

Says James S. Massey, 5927 Ridge Ave., Roxboro, Philadelphia: "Everyone says that your 'little book' is a great help in radio. I don't see why they call it a little book. Of course it is not a large, clumsy book, but that is not what makes a book big; it is what is in it. In this respect RADEX is truly the largest book of its kind."

Howard Spies, 1217 Louisiana Ave., N. W., Canton, Ohio, asks a hard one. "Can anything be done to eliminate interference between several stations on the same frequency? WSMB constantly interferes with WADC, both on 1320, although the latter is only twenty miles

away and twice as powerful as WSMB." We can imagine no device except a directional loop aerial that could possibly tune out or even reduce one station and not the other. "I am using a 'Claratone' wave trap, which is effective except on the local station which is only a mile distant," adds Mr. Spies. "On good nights I am able to get WCAU, three channels away, but the local is always faintly heard in the background."

"I have a Zenith Model 67 and lately there has been a buzzing sound which increases when the volume is turned down," complains Jos. Churray, Canonsburg, Pa. "I've checked over tubes and wires. Can you tell me what is wrong?" Before we can answer this or similar questions, we must know whether the noise is within the set or outside it. The first step, therefore, is to remove the ground and aerial wires. If the noise continues it is from the set; if it stops it is outside the set. We published an article entitled "Fighting Radio's Worst Enemy," in the April, 1931, RADEX No. 48, which should help in locating these troublesome noises.

A Few DX Tips

Ray E. Everly, 102 W. Washington St., Newton, Ill., contributes the following information: KMCS, 1120 kcs., Inglewood, Calif., will move to Los Angeles in January and have new G. E. equipment. KWEA, Shreveport, La., has a new short-wave station, W9XX, on 1604 kcs. Lannie Stewart, who was formerly at Siloam Springs, Ark., and Fort Smith, Ark., is Engineer. It verifies for ten cents. Following are all-night stations on the Pacific Coast: KMCS, KMTR, KFOX, KJBS and KGFJ.

"Was over to WPCH this afternoon," writes Karl J. Halpern, 1435 Coney Island Ave., Brooklyn, N. Y., "and spoke to the chief engineer. He said that you were misinformed about WPCH moving from 810 to 570. He says WPCH will not move even when WCCO gets 50,000 watts." We are putting WPCH back to 810 on this information.

Among the stations on whom the Commission swung the axe, was WIBR, Steubenville, Ohio. In a letter to C. S. Wells, 15 Academy St., Concord, N. H., W. E. Kelly, of the above station, says:

"In answer to your inquiry, we regret to inform you that we have already been put off the air by the Federal Radio Commission." We are accordingly deleting this station. In answer to the question by Roger F. Vore, Mr. Wells states that he has a Silver-Marshall S. W. Converter with which he is much pleased and he will be glad to write anyone interested in short waves. He is now experimenting with various types and makes of broadcast receivers.

Some months ago we deleted station KFQW, Seattle, Wash., in accordance with action taken by the Commission. Receiving many letters from readers that they were still hearing this station, we reinstated them. Now the Commission removes the call letters from their records and we are again deleting KFQW.



Lowell Thomas, President and Founder of the Tall Story Club. Chapters are being formed everywhere. Golfers, fishermen and DXers are barred.

Readers report they are still receiving WGM, Jeannette, Pa. Prosecution of this station is in the hands of the Department of Justice and trial will be held in Pittsburgh about December 8th.

Station XETF advises us they are now on 630 kcs. and that their slogan is "La Voz de Veracruz El Primer Puerto de Mexico." (The Voice of Veracruz, the Main Port of Mexico.)

Eugene Cole, Michigan College of Mining and Technology, Houghton, Mich., thinks the networks ought to add some stations to their chains from outlying districts instead of trying to get so many in the big centers. He says:

(Continued on page 29)

Intimate STORIES of the RADIO Great

Program Personalities
by "BETTY"

JOHAN W. HOLBROOK, suave young man who nightly switches the voices of celebrities in and out of some fifty million homes, went to work in the NBC studios one night not so long ago both surprised and cautious. He hoped and prayed that no harsh irritants would affect his own voice box, for on that particular day of days, before members of the American Academy of Arts and Letters, he had been presented the academy's annual gold medal for employing the best English before the microphone. He knew not only the King's English, said Hamlin Garland, award chairman, but eminently combined "English English and American English" as an example for the two continents. "My pleasure is exceeded only by my surprise," said Holbrook in reply to compliments on his voice and his taste in using it. "And, imagine," he added, "as he relaxed in the studios later, "I once wanted to be a champion ski-jumper. This has been my lucky year. First, I am brought here from Boston for network announcing. Then I get this surprise. But luckiest of all, the young lady has said 'yes'." He introduced Katherine Renwick, petite NBC actress, formerly on the stage with Irene Bordoni and others. They met in the NBC studios and will be married soon.



Aileen Clark, a typically modern girl of the Middle West, is one of radio's newest stars. She rose to enjoy popular radio acclaim over night, after studying for years on slender resources and without family encouragement. Miss Clark is probably the only girl in radio who won a highly remunerative commercial contract within twenty-four hours after she took her original and only radio audition. Many of the radio stars of today have served months and even years of apprenticeship in the studios before obtaining a sponsor. On August 26, 1931, she obtained her momentous audition. On August 27th she signed a contract to appear exclusively on the Club Valspar program, broadcast each Saturday from 9:30 to 10:00 p.m., EST., over an NBC-WEAF network. Aileen is 24 years old. She was born in St. Louis, Mo., of parents without any marked artistic talents. At an early age, however, she recognized the merits of her own voice and soon became engrossed in vocal study. When she was 17 she made her debut with the St. Louis Symphony and gained enthusiastic comments from music critics and lovers. She was such a child then that her parents would not let her embark on a career away from St. Louis. Miss Clark was graduated from high school and entered Washington University, St. Louis, where she studied French, Spanish, Italian and German. One of St. Louis' patrons of music sponsored a



subscription to send Miss Clark to study in New York. The amount was not large and she had to earn her own way. For four years she sang in Chester Hale's ensemble at the Capitol Theatre, New York. Last summer she decided to take a fling at broadcasting, with triumphant results. Aileen is married and has a boy three years old. Her husband was a football player at Washington and Jefferson. They were childhood friends.



Howard Lanin, who conducts the Campbell Soup orchestra, began conducting when 17 years old, and since has waved the stick in ballrooms of Palm Beach, Bar Harbor, Pinehurst, Newport, London, Paris and Cannes. He was born in Philadelphia in 1898, and still lives there, commuting to New York every day. His father was a violinist, his mother a pianist and his eight brothers all musicians. Early indications gave rise to the belief that he would out-trumpet Gabriel, but he turned to the traps and drums and beat his way to international musical recognition. Howard made his first professional appearance when he was 11 years old and received 35 cents a night at a movie theatre. Lew White, now famous organist, was also an entertainer there. White struck for more money, Lanin followed; fifty cents was demanded and they won out. Howard landed in the Nixon Theatre, where he played for the first performance of Charlie Chaplin. There also was a sunburned youth with an unruly forelock

of hair, who chewed gum, twirled a lariat and cracked jokes. Howard shook hands with Will Rogers. An engagement at the Stone Harbor, N. J., Yacht Club started "the society maestro" on his way. He was 17 then. He first faced the "mike" at WDAR, now WLIT, of Philadelphia, in the days of crystal sets of 1921. Even then he pulled an average of 2,000 fan letters daily. Lanin reads detective stories for relaxation, drives a big automobile and hopes some day to live in Europe. He is 5 feet, 9½ inches tall; has black hair, dark brown eyes and a ruddy complexion. His build is stocky and he packs a punch in boxing. Lanin is married and has three children. His wife is his honest critic. She goes to first nights and comes home to tip him off to the hit tunes. You can hear Lanin on the Campbell Soup program four nights a week, Monday, Wednesday, Thursday and Friday, at 7:15-7:30 p.m., EST.



Betty Council broke into big league radio playing the role of a hard-boiled mountain woman in a dramatic production under pretext that she was a radio veteran of three years' experience. As a matter of fact it was the first time she had ever been before a microphone. It was just two years ago that Betty

bluffed her way past the portals of radio broadcasting, and since then has acted and played in many important radio programs. Her work in the Radio Guild and True Story productions has won her particular attention. When NBC inaugurated its Crime Prevention series, Miss Council starred in the inaugural dramatic playlet. She has also played dramatic parts with Peggy Winthrop over NBC networks. Previous to her radio debut, she appeared in stage work as understudy to the feminine lead in "The Trial of Mary Dugan." Her last appearance on Broadway was in "Scarlet Pages," in which she was understudy to Elsie Ferguson. Betty's husky Georgia drawl is now heard every Friday evening, when she is mistress of ceremonies on the Pond's Dance Program heard over NBC-WEAF network Fridays from 9:30 to 10:00 p. m., EST. Horseback riding and swimming are her favorite sports, but she describes herself as "a rather lazy Southern girl." She was born in Americus, Georgia, 21 years ago; is five feet seven inches tall, has naturally wavy brown hair and large hazel eyes.

"I Knew Them When—"

Those were the Good Old Days! When Freddie Rich played a rickety piano in an East Side nickelodeon; when Ben Bernie demonstrated fiddles in a New York department store; when Irene Beasley taught school; when Jacques Renard played violin for Pavlowa; when Tony Wons tended furnace; when Eddie Duchin was a pharmacist; when Noble Sissle was one-half of Sissle and Blake of "Shuffle Along;" when Kate Smith sang for the soldiers bound for "Over There;" when Morton Downey was fired from a job in an installment furniture store; when George Hall directed the orchestra for Fritz Scheff at the old Palais Royale in New York; when Fred Berrens was noted in vaudeville for his female impersonation act; when Ben Alley worked as a road-paver in his native West Virginia; when the Mills Brothers entertained on the streets of Piqua, Ohio; when Bing Crosby clerked in a law office in Spokane, Wash. But they'll all take the present. Who wouldn't!

Voices from the Sky

LESS than five years ago radio telephone communication between a plane in the air and a station on the ground was regarded as a remarkable achievement of radio engineering. Now it is accepted as one of the commonplace features of air transport on most well organized lines.

American Airways, for example, equip all of their planes with two-way radio. Pilots talk back and forth with the ground during flights, periodically reporting their position, altitude, the weather and visibility, quite as a matter of course and think nothing of it.

This telephone service is an adjunct to the radio beacon signal, which guides the pilot on his flight between larger airports. It serves as a double check—keeps the ground force informed at all times as to the exact location of ships in the air and keeps the pilot informed as to the weather ahead.

The apparatus as used on American Airways' planes weighs about 200 pounds, a considerable item in airplane construction, but has come to be regarded as an essential part of the ship. Modern transport planes have built-in radio equipment and antennae as an integral feature.

Radio fans with short-wave receiving sets are accustomed to the familiar call-and-answer signals of the sky. Between New York and Boston, for instance, six planes are operated in each direction daily. New England short-wave listeners can pick up their receivers at almost any hour of the day and hear at fixed intervals a conversation to the following general effect:

"Boston to 9633. Come in, please."

"9633 to Boston. 125 north 5. Scattered clouds 5000 feet. Visibility unlimited."

"Boston to 9633. Okay."

Coming out of the still ether, this business-like greeting between land and air has a weird sound. The listener finds it hard to believe that "9633," a mere speck in the sky, is speeding along overhead somewhere at 110 miles an hour.

The orthodox position report is given "by the numbers." For this purpose an aviation strip map is used. Strip maps cover territory twenty miles wide on a straight line between two airports. They are divided into ten-mile squares, each numbered. When the pilot reports "125 north 5," he means he is passing over point 125 east of New York, five miles north of course. The ground operator can then make allowance for wind direction and figure exactly where the plane will be each minute until the next report comes in.

When there are several planes in the air at once, regular time intervals are assigned to each, but every pilot is constantly listening through his ear phones and can get into communication with the ground or any other ship at a moment's notice.

Two fixed antenna systems are supported on and above the wings. One is used for the beacon receiver, so that service need never be interrupted. The other is used for short-wave communication with the ground. A 12-volt storage battery of large capacity supplies all the energy required for transmitter and receivers.

High voltage for the receiver and the transmitter is obtained from separate dynamotors operating from the battery. The receiver dynamotor runs continuously. The transmitter dynamotor is started only when about to transmit.



"Singin' Sam, The Barbasol Man," one-man minstrel show. (CBS on Mondays, Wednesdays and Fridays at 8:15 EST.)

The short-wave apparatus is as able to function with the plane grounded as when aloft. Both pilot and co-pilot have individual headphones and transmitters as an added feature of safety and convenience.

Radio telephone communication has become such a common part of transport work on American Airways coast-to-coast system that pilots wonder how they ever managed to get along without it.

Some More Slogans

CFCT	The Mecca of Tourists.
CFCY	The Pioneer Radio Voice of Canada's Garden Province.
CFQC	The Hub City of the West.
CFRB	Just Plug In, Then Tune In.
CHGS	Holman's Guarantees Satisfaction.
CHNS	The Key Station of the Maritimes.
CJCA	The Sunniest Spot in Sunny Alberta.
CHCD	Canada's Western Gateway.
CKCK	The Queen City of the West.
CKCO	The Voice of Hamilton.
CKMO	The Tourist's Mecca of the Pacific.
CKY	Manitoba's Own Station.
CMBS	Majestic Radio Station.
CMGF	Sounds From Yumuri Valley.
CMHC	If You Hear the Koo of the Cuckoo, You Are in Tuinuc.
CNRA	Voice of the Maritimes.
KBTM	"The Voice of Crowley's Ridge."
KFIU	A Voice From the Far North.
KFJY	Fort Dodge, Iowa, Center of the State.
KFJZ	The Voice of Texas.
KFPW	"Fort Smith's Radio Station."
KFXV	Voice of the Grand Canyon at Flagstaff.
KGBX	The Poster Hall Station.
KGHF	The Voice of Pueblo.
KGIR	The Voice of Montana.
KOCW	The Friendly Station in a Friendly Town.
KOH	The Voice of Nevada.
KRE	Looking Through the Golden Gate.
KSTP	The Call of the North.
KTSL	The Reciprocal Station.
KTW	Hear Ye! Hear Ye! The Gospel.
KUOA	The Voice of the Ozarks.
KYW	The 24-Hour Station.
WAAT	The Voice of the Gate of the Garden State.
WABZ	The Radio Voice of Louisiana.
WALR	On the Main Street of America.
WBBM	World's Best Broadcast Medium.
WBBZ	Serving the Southern Half of Kansas and the Northern Half of Oklahoma.
WBIG	Where Business Is Good.
WBZ	The Broadcasting Station of New England.
WCBA	The Voice of the Lehigh Valley.
WCBD	Where God Rules Man Prospers.
WCBM	The Voice of Keith's.
WCRW	The Gold Coast Station.
WELK	The Voice of the Elks.
WHFC	The Voice of the West Towns.
WIBA	The Capital Times Station.
WIBX	The Gateway to the Adirondacks.
WILM	The Friendly Voice of Wilmington.
WISN	The News at Milwaukee.
WJBW	The Friendly Broadcasting Station.
WJSV	A Voice From the Heart of the Nation.
WKBB	The Voice of Joliet.
WKBH	Service to the Middle West.
WKBJ	The Voice of Western Michigan.
WKJC	Your Own Station.

WLAP Louisville's Own Station.
 WLBFB Where Listeners Become Friends.
 WLBG The Voice of Southside Virginia.
 WLBL Wisconsin, Land of Beautiful Lakes.
 WLBX Radio Voice at Gateway of Long Island.
 WLEY The Lexington Air Station.
 WLIT Quaker City Siren.
 WMAZ Watch Mercer Attain Zenith.
 WMBD World's Most Beautiful Drive.
 WMBH Where Memories Bring Happiness.
 WMBI The West Point of Christian Service.
 WMBR Everything for Radio at Tampa.
 WMCA Where the White Way Begins.
 WMPC Where Many Preach Christ.
 WNBFB The Voice of Triple Cities.
 WNBH The Gateway to Cape Cod.
 WNOX Smokey Mountain Station.
 WNYC Municipal Station of the City of New York.
 WOQ The Voice of Unity.
 WPAW The City of Diversified Industries.
 WPEN First Wireless School in America.
 WPSC The Voice of the Nittany Lion.
 WRAW The Schuylkill Valley Echo.
 WRHM Welcome Rosedale Hospital, Minneapolis.
 WRUF The Voice of Florida.
 WSAI The Gateway to Dixie.
 WSAN We Serve Allentown Nationally.
 WSBC World Storage Battery Station.
 WSM We Shield Millions.
 WSMB America's Most Interesting City.
 WSMK The Home of Aviation.
 WSUI The Old Gold Studio
 WSVS Watch Seneca Vocational School.
 WSYR The Voice of Central New York.
 WTAD The Voice of Agriculture.
 WTFI Telling Dixie About Everything.
 WWNC The Radio Voice of the Asheville Citizen.
 WWRLL The Voice of Queens County.
 XER The Sunshine Station Between the Nations.
 XETA Radio Cultural.
 XETF La Voz de Vera Cruz.
 XEX Land of the Aztecs.

What the Listener Wants

LISTENER reaction is so quick in making itself known that the evils of broadcasting "are hurled into the very teeth of those who permit them to be committed."

Thus spoke John W. Elwood, NBC vice president, in a recent address in which he expounded what he calls "The Listener's Decalogue." It is Mr. Elwood's conviction that the evils of radio are so easily detected and so quickly reported as to be almost self-corrective. Sins of the broadcasters, he said, are visited not upon the third or fourth generations, but immediately upon those committing them.

Following are the ten points of the listener's credo Mr. Elwood expounds; how well the broadcasters, network and individual alike, would do to heed them to the letter.

1. I am the listener. I am the final

word in determination of the popularity of a radio program.

2. I speak not in self praise with too lengthy indulgence. I will listen to a reasonable amount of sales talk, but make it snappy.

3. Tell me not the same story again and yet again. I have no desire to memorize your stuff.

4. Use discretion and taste as to the character and timing of your message. Crash not in upon my uplifted mood inspired by noble music with barkings about your product.

5. Make your program high class whatever type it may be. Rather would I hear a first-class harmonica player than a third rate symphony orchestra.

6. Speak not in the tongue of the liar, neither use superlatives until I sicken.

7. Emit not wisecracks on important occasions, neither be solemn nor soggy at lissome moments.

8. Sell not shaving cream in the afternoon nor broadcast household hints at night.

9. Introduce not guest speakers of unpleasing voice. If they speak not well, let someone else read their stuff.

10. Conform to the rules of good taste, courtesy, decency, and common sense. You enter my humble abode as an invited guest, but mistake not the warmth of my welcome for an invitation to become a permanent lodger. These be my whims and caprices. By them are you judged. Harken to me and practice these precepts lest I give you the razzberry and turn off the darn thing, clap on my hat and go to the movies.

Their Time on the Air

THE following information regarding time on the air has been secured from the stations concerned, from newspaper clippings, and from our readers. The times shown can be quickly converted into your own time by use of the following table:

Your Zone	Where Time is Given as			PST
	EST	CST	MST	
EST	.....	Add 1 hr.	Add 2 hrs.	Add 3 hrs.
CST	Subt. 1 hr.	.....	Add 1 hr.	Add 2 hrs.
MST	Subt. 2 hrs.	Subt. 1 hr.	.....	Add 1 hr.
PST	Subt. 3 hrs.	Subt. 2 hrs.	Subt. 1 hr.	.....

State	City	Call	Kcys.	Watts
Arizona	Prescott	KPJM	1500	100
Thursday midnight to 2 a.m., MST.				
California	Hollywood	KNX	1050	5000
Daily, 8:45 a.m.-2 a.m., PST.				
	Long Beach	KFOX	1250	1000
Daily, 5 a.m.-3 a.m., PST.				
	Los Angeles	KTM	780	500
Daily, till 3 a.m., PST.				
	Oakland	KROW	930	500
Sunday, 8 a.m.-2:30 p.m.; 6-8 p.m.; 9-11 p.m., PST				
Mon., Wed., Fri., 8-9 a.m.; 1-6 p.m.; 7:30-8:30 p.m.				
Tues., Thur., Sat., 8-9 a.m.; 1-6 p.m.; 7:30-11 p.m.				
	San Francisco	KFWI	930	500
Mon., Wed., Fri., 7-8 a.m.; 9 a.m.-1 p.m.; 6-7:30 p.m.; 8:30-1 a.m., PST.				
Tues., Thur., Sat., 7-8 a.m.; 9 a.m.-1 p.m.; 6-7:30 p.m.; 11-1 a.m.				
		KGO	790	7500
Sunday, 8 a.m.-12 mid., PST.				
Daily, 7 a.m.-12:30 a.m.				
		KJBS	1070	100
Daily, 12 noon-7 p.m., PST.				
		KPO	680	5000
Sunday, 8 a.m.-11 p.m., PST.				
Daily, 7 p.m.-12 mid.				
		KTAB	560	1000
Sunday, 8 a.m.-11 p.m., PST.				
Daily, 7 a.m.-1 a.m.				
		KYA	1230	1000
Sunday, 8:30 a.m.-11 p.m., PST.				
Daily, 7 a.m.-12 mid.				
Idaho	Twin Falls	KTFI	1320	250
Daily till 1 a.m., MST.				
Illinois	Chicago	WBBM	770	25000
Sunday, 8 a.m.-2 a.m., CST.				
Daily, 6:30 a.m.-9 p.m.; 11 p.m.-1 a.m.				
		WPPC	560	500
Sunday, 8 p.m.-mid., CST.				
Monday, 7-7:30 p.m.				
Tuesday, 7:30-8 p.m.				
	Cicero	WEHS	1420	100
Sunday, 4-8 p.m., CST.				
Daily, 4-6 p.m.				
Indiana	Muncie	WLBC	1310	50
Sunday, 7 a.m.-4:30 p.m., CST.				
Daily, 7 a.m.-11 p.m.				
DX Tuesday nights till 1:30 a.m.				
Iowa	Ames	WOI	640	5000
Daily, 7 a.m.-4 p.m., CST.				
	Des Moines	WHO	1000	5000
Sunday, 9 a.m.-11 p.m., CST.				
Daily, 7 a.m.-12 mid.				
	Ottumwa	WIAS	1420	100
Daily, 7 a.m.-1 p.m.; 5-7 p.m., CST.				
Kansas	Milford	KFBI	1050	5000
DX every other Thursday, 3 a.m., CST.				
(Dates, December 31, January 14, 28, etc.)				
Kentucky	Paducah	WPAD	1420	100
Daily, 7-9:30 a.m.; 11-2 p.m.; 4:30-11 p.m., CST.				
New Jersey	Zarephath	WAWZ	1350	250
DX every Sunday till 2 a.m., EST.				
Ohio	Columbus	WSEN	1210	100
Daily, 8 a.m.-11:30 p.m., EST.				
South Carolina	Spartanburg	WSPA	1420	100
Saturday, 8:30-9 p.m., EST.				
Tennessee	Memphis	WMC	780	500
Sunday, 6 a.m.-11 p.m., CST.				
Daily, 6:30-11 p.m.				
		WNBR	1430	500
Sunday, 7 a.m.-10 p.m., CST.				
Daily, 7 a.m.-11 p.m.				
		WREC	600	500
Sunday, 6 a.m.-11 p.m., CST.				
Daily, 6 a.m.-12 mid.				
Texas	Corpus Christi	KGFI	1500	100
DX Sunday mornings nearest 15th of each month, starting 1 a.m., CST.				
Washington	Tacoma	KVI	760	1000
Daily, 6:45 a.m.-4:30 p.m.; 10-12 mid., PST.				
Wisconsin	Janesville	WCLO	1200	100
Daily, 6:30 a.m., CST.				

State	City	Call	Kcys.	Watts
Philippine Is'ds	Manila	KZRM	618.5	50000
(Noon Monday EST is 1 a.m. Tuesday, Manila time.)				
Sunday, 10:30-11:30 a.m.; 12:15-1:15 p.m.; 3-5 p.m.; 6-11 p.m.				
Monday, 6:30-7:30 a.m.; 12:15-1:15 p.m.; 5-6 p.m.				
Balance week, same as Monday, but on till 11 p.m.				
CANADA				
British Columbia	Vancouver	CJOR	1210	500
Sunday, 10:30 a.m.-9 p.m., PST.				
Daily, 7 a.m.-11:30 p.m. (Sat. on till 1:15 a.m.)				
Manitoba	Winnipeg	CKY	780	5000
Sunday, 11 a.m.-12 noon; 4-6 p.m.; 7-8:30 p.m., CST.				
Daily, 9:30 a.m.-2 p.m.; 3:30-4:30 p.m.; 6:30-9 p.m. (Friday on till 11 p.m.)				
		CNRW	780	5000
Sun., Wed., Thur., 9 p.m.-9:30 p.m., CST				
Saturday, 9:30-10 p.m.				
Ontario	Toronto	CKGW	660	5000
Daily, except Sunday, from 5:45 a.m., EST.				
	Wingham	10BP	1200	25
Sunday, 10:30 a.m.-12:10 p.m.; 4:15-5:15 p.m.; 6:45-8:10 p.m., EST.				
Tuesday, 12-1 p.m.; 7-9 p.m.				
Thursday, 7-9 p.m.				
Special DX (1190 kc.) 1-2:30 a.m. on mornings of December 25th, 10th and 25 January and February.				
Saskatchewan	Fleming	CJRW	665	500
Sunday, 10:30 a.m.-12 noon; 4:30-7:30 p.m., CST.				
Daily, 4:30-7:30 p.m.				
(Monday, Thursday, Friday, on till 10 p.m.)				
	Moose Jaw	CJRM	665	500
Sunday, 12 noon-3:30 p.m., MST.				
Daily, 8:30-11 a.m.; 12-2:30 p.m.; 7:30-12 mid. (Sat. on till 1 a.m.)				

The Month's Changes

Frequencies	
580	CKCL Toronto, Ont., from 960.
620	KZRM Manila, P. I., from 625.
930	XETF Veracruz, Mexico, from 685.
680	XFG Mexico, Mexico, from 638.
750	XEQ Juarez, Mexico, from 1015.
780	XEZ Mexico, Mexico, from 588.
810	WPCB New York City, from 570.
870	XFF Chihuahua, Mexico, from 915.
970	CMBT Havana, Cuba, from 790.
1000	XEA Guadalajara, Mexico, from 1200.
	XEC Toluca, Mexico, from 1333.
	XEE Oaxaca, Mexico, from 1132.
	XEFE N. Laredo, Mexico, from 980.
	XEJ Juarez, Mexico, from 857.
	XEL Saltillo, Mexico, from 1091.
	XEU Veracruz, Mexico, from 800.
	XEV Puebla, Mexico, from 1034.
	XEY Merida, Mexico, from 547.
1130	XEH Monterrey, Mexico, from 1110.
1150	CJOR Vancouver, B. C., from 1210.
1300	XEM Tampico, Mexico, from 730.
New Stations	
635	CKTB St. Catharines, Ont.
1000	WGEO York, Pa.
	XEFI Chihuahua, Mexico
	XEFS Queretaro, Mexico.
	XETC Jalapa, Mexico.
	XETG Torreon, Mexico.
	XEFD Tijuana, Mexico.
1020	XEFC Merida, Mexico.
1050	XETQ Mexico, Mexico.
1230	XEFB Monterrey, Mexico.
1270	XEG Mexico, Mexico.
1360	XETB Torreon, Mexico.
1380	XETZ Coahuacan, Mexico.
1500	
Power	
620	KZRM Manila, P. I., 500 to 50,000.
850	WWL New Orleans, La., 5000 to 10,000.
890	CMX Havana, Cuba, 500 to 1000.
1120	KFSG Los Angeles, Calif., 400 to 500.
1400	XEP Laredo, Mexico, 2500 to 200.

(Continued on page 30)

RIDING The ETHER WAVES

Seeking the Distant Stations

THE radio season is now on in full swing and DXers are daily adding to their logs. Several new stations in Mexico this month provide interesting targets. A number of special DX programs are scheduled in this issue for which our long-distance marksmen will want to aim. Let's go.

Rudolph Kure, 301 Warner St., Cincinnati, Ohio, submits the following information regarding experimental station W9XX: "Here is some more news from the owner of W9XX that will be of interest to members of our RADEX Radio Club.

"Watch out for tests over Radio Experimental Station W9XX, beginning December 1, transmitting from Gidden's Castle, the highest point in Louisiana, on a frequency of 1604 kilocycles, using from two (2) up to a hundred (100) watts of power; will run from 4 to 5 a.m., Central Standard Time; this station issues a beautiful DX card for cost of 10 cents to cover postage and printing, and a beautiful magazine on low waves for 25 cents for a 24-page copy; all mail for W9XX should be addressed to P. O. Box number 1543, Shreveport, Louisiana.

"This station sends out a swell signal on five (5) watts of power or even on only two (2) watts. A fine chance for faithful subscribers of your splendid magazine, who are able to pull in short-wave stations with their regular broadcast band radio receivers, to secure a most desirable verification on fly power. The station comes in three notches above the 1500 kilocycle frequency. It requires fairly sharp tuning to bring it in."

Some Foreign Targets

George W. Burns, 2466 Wahl Terrace, Cincinnati, Ohio, contributes the following time on the air for some foreign stations:

CPX, La Paz, Bolivia, South America. Frequency 1325 kcs. (226 meters). Hours are, daily except Sunday: 10:30-

11:10 a.m.; 5:00-6:00 and 8:00-10:00 p.m., eastern standard time. Power, 1 kw.

LS2, Buenos Aires, Argentina. Frequency 1190 kcs., power 15 kw. Broadcasts daily 10:00 a.m. to 2:00 p.m.; 2:30-4:30 and 5:00-11:30 p.m., Buenos Aires time (which is one or two hours later than eastern time).

OKR, Bratislava, Czecho-Slovakia. Frequency 1076 kcs., power 14 kw. Transmits daily except Sunday, 4:30 a.m. to 4:00 p.m., eastern standard time.

Special DX From XET

"XET puts on a special DX for the U. S. every Tuesday, beginning at midnight CST," is the tip from P. J. Hauss, 221 S. Butler Ave., Indianapolis, Ind. "XEB can be heard from as early as 11:00 p.m. until they sign off at 1:00 or 1:15 a.m., CST. KABC puts on a special program every Sunday night from 11:30 until 12:30 a.m., CST. XFN broadcasts local and foreign news and comment 11:00 to 12:00 p.m., CST. KGBU will put on a DX program every Thursday morning from 3:00 to 5:00 a.m., CST, during January, February and March." Mr. Hauss now has 570 on his list and would like to correspond with other DXers, particularly those in other countries.

More Tips

The Prairie State DX Club sends the following info regarding KWEA, Shreveport: 1210 kcs., 100 watts. Schedule: Sunday, 4:30 to 6:00 p.m. Daily, 7:00 a.m. to 2:00 p.m. and 5:00 to 10:00 p.m. DX midnight to 1:00 a.m. and 2:00 to 4:00 a.m. All CST. KWEA issues a DX souvenir card for ten cents.

KFJB, Marshalltown, Iowa, advises Leslie T. Bradbury, 130 North Harvard Ave., Ventnor City, N. J.: "Later, we plan to go on once each week from 11:00 p.m. until 2:00 a.m., CST, with what will be called the 'Wash Day Lunch' program. This will be Monday nights and Tuesday mornings."

"Here's a tip for DXers," proffers James Pinkerton, 47 Jasper St., Paterson, N. J. "WSIX, Springfield, Tenn., will

run a DX anniversary program on January 7th, which will, no doubt, run a good part of the night and next morning."

DX tips from Harry Sugar, 1808 Oak Hill Ave., Youngstown, Ohio: CHGS, Summerside, P. E. I., special DX broadcast every first Sunday of the month, starting at 1:00 o'clock, EST. CMC, Havana, every Monday, Wednesday, Thursday, Friday and Sunday, 7:00 to 11:00, EST.

Louis Renaldo, 483 Wilmot Ave., Burlington, Wis., gives the following list of stations which are on the air every morning after 5:00 a.m., CST: WSAZ, XER, KMMJ, KFXF, KGBZ, KFBI, WDBO and WKBC.

"While DXing one Sunday morning, I heard WSOC, Gastonia, N. C., say that they broadcast regular DX programs every Sunday morning about 2:00, EST," says John M. Lennon, 122 Linden St., Camden, N. J.

"WILL, of Urbana, Ill., tells me that they put on a DX program starting at midnight the first Saturday of each month," writes Ivan D. Ide, Box 312, Genoa, Ill.

"Tell your readers to try for 10-BQ, Brantford, Ont., on 1200 kes. with 5 watts, some Sunday from 2:00 to 4:30 p.m.," suggests Douglas Wood, Nixon, Ont.

KFXJ, Grand Junction, Colo., conducts DX tests on Thursdays, 1:00 to 4:00 a.m., MST, or 3:00 to 6:00 a.m., says Stuart B. Leland, New Canaan, Conn.

Verifying Russians

M. B. Murphy, Glenn Ranch, Calif., sends us correspondence he has had regarding his reception of Russian stations. He says: "To obtain a reply from Russia every letter must be addressed, not to Russia, but to the Union of Soviet States Republic. A friend who just returned from Russia says any correspondence addressed to 'Russia' is burned forthwith. To insure a reply enclose an International Reply Coupon, costing nine cents at any post office. My letter to Moscow, dated February 20th, was not answered until August 17th. So, DXers, be patient." The Soviet authorities sent Mr. Murphy a typewritten monthly program which includes such subjects

FREE Your Choice of NINE Meters!

To do your radio work properly you need meters. Here is your opportunity to get them at no extra cost. See the list of nine meters below. Heretofore we have offered the choice of any one of these meters free with an 8-weeks subscription for RADIO WORLD, at \$1, the regular price for such subscription. Now we extend this offer. For the first time you are permitted to obtain any one or more or all of these meters free, by sending in \$1 for 8 weeks' subscription, entitling you to one meter; \$2 for 16 weeks, entitling you to two meters; \$3 for 26 weeks, \$6 for 52 weeks, entitling you to six meters. Return coupon with remittance, and check off desired meters in squares opposite.

RADIO WORLD is the first and only national Radio Weekly. In tenth year. The news of the progress of the entertainment, science and business of radio when it is news. 15c a copy; newsdealers everywhere.

RADIO WORLD 145 West 45th Street
New York N. Y. (Just East of Broadway)

Enclosed please find \$_____ for _____ weeks subscription for RADIO WORLD and please send as free premium the meters checked off below.

- I am a subscriber. Extend my subscription. (Check off if true.)
- 0-6 Voltmeter D. C. _____ No. 326
- 0-50 Voltmeter D. C. _____ No. 337
- 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 _____

as "Present Day Russian Menchevism," "Natural Resources of the U. S. S. R.," "The Essence of Socialistic Methods," "The Mechanization of the Donbass." How would you like this, you objectors to advertising talks?

Eastern Reception in the West

In response to the inquiry of Herbert V. Haussler regarding reception conditions of Eastern stations on the Pacific Coast, G. W. Lowry, Jr., R. 1, Box 175, Everett, Wash., gives his experience: "I have a five-tube Radiodyne battery set. I get the Atlantic Coast frequently; following are some of my catches: WSM, WEFW, WOR, WSB, WJZ, WHAS, KDKA, WBAL, WTIC, WBT, WPG, WAPI and WHAM. I receive the Japanese stations better than the East Coast, though, when they break through. Out here on the Coast about every wave has a coast station on it to hamper reception. All Columbia River stations fade badly on my set." Mr. Lowry wants to know what station he heard just below KOA on about 840, signing off at 10:00 p.m., when it was 4:00 a.m., PST. The announcer was speaking English, but static cut out the call.

The Prairie State DX Club sends out this notice to its members: "Mail addressed to XER, Villa Acuna, Coahuila, Mexico, will be returned marked "Fraud-

ulent," but mail addressed to the same station at Del Rio, Texas, goes through." The why of this is a post office mystery. We have just had a letter addressed to XED, Reynosa, Tams, Mexico, returned to us marked "Fraudulent." We wonder of XED is also on the blacklist or if this station was confused with XER.

The Club also advises that WDZ, Tuscola, Ill., will have a DX program from 1:00 to 2:00 a.m. December 20th and WMIL from midnight to 2:00 a.m. December 28th.

Frank A. Johnson, 59 West 66th St., Chicago, Ill., quotes the following from a verification received from XEQ: "XEQ is the International Radio Service, 'The Voice of Mexico,' Suite 1202, Mills Bldg., El Paso, Texas. Eagle Radio Broadcasting Companies, Inc., Exclusive American Representative. The Eagle Radio Broadcasting Co. has four stations: XETG, Torreon, Mexico; KGFI, Corpus Christi, Texas; XFF, Chihuahua, Mexico, and XEQ, Ciudad Juarez, Mexico." Mr. Johnson states that he has picked up eight new ones the past month, bringing his total well over the 1300 mark. "Many of my catches are no longer on the air," explains Mr. Johnson. "I have seen stations come and go, for I have been using the headphones since 1919—a long time to be listening in."

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 | 25c |
| <input type="checkbox"/> One copy of the next RADEX | 25c |
| <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

A Courteous Station

Edwin S. Thompson, 2025 N. 15th St., Philadelphia, Pa., has a good word for KFWI who wrote him a very cordial personal letter which was received just 13 days after he wrote them. Incidentally KFWI mentioned their new 1000-watt transmitter. Have they increased their power? Mr. Thompson, although located in a congested residence district, with a full quota of doctors and dentists with electrical apparatus trolley cars and other disturbers of the peace, has brought in 344 stations on his Majestic 92 since October 24th, 1929. From his summer home on the Atlantic at Ocean City, N. J., he received KFI at 6:15 PST, still daylight in the West.

"Just got my RADEX map of North America," says Orrin L. Case, 403 Clairmont St., Port Huron, Mich., "and it sure is a dandy. I feel certain if all DX fans only knew what a big help this map would be to them, they sure would get one. I have enjoyed radio more since I got my map than ever before." Mr. Case would like to hear from some one who can get HHK.

"You might tell the fans that the Newark New Radio Club is on the air every Saturday, 5:00 to 5:30 p.m., EST, over WAAT, 940 kcs., with a very fine musical program and, of course, a lot of DX tips," says the Executive Secretary of that Club, Roland Trenchard.

CMCW Wants Receptions

"I get a foreign station around 1035 kcs. that sometimes plays American dance music, but signs off without giving their call letters," reports John McGill, Jr., Olive Hill, Ky. (This is probably XEB, Mexico City, on 1030.) "On my old 8-tube Crosley, I have logged over 200 stations in the U. S., including many on the West Coast. I have eight Canadians, four Mexicans and five Cubans. CMCW, Havana, announced they would answer all letters from the U. S. A." John is eighteen and would like to hear from other young DXers. He is anxious to receive KOB, HHK and VAS.

"Give CMCY a hand," exclaims Charles Rowland, 23 Myrtle Drive, Pontiac, Mich. "They verify promptly and give lots of dope on their future

programs; most Cubans don't." In five weeks, 258 stations, is Mr. Rowland's record. He wants to know where WTAY is located. He picked them up about 1480. He thinks he heard T14-NRH, but they announced only as NRH and he wonders if they drop the T-14 in announcing. Mr. Rowland listened to a Spanish-speaking station on 790 recently for more than an hour and not a word of English. They came in at 1:12 a.m., EST, on November 8th. Can anyone help him?

Who Were These?

"On the morning of November 29th, at 4:05, EST, I heard a distant station on about 755 kcs.," reports Edward H. Schulz, 188 Carl St., Buffalo, N. Y. "It came in very weak. Queer music is the first thing I heard, then an announcer spoke in English and later in a foreign language, probably Spanish." This was probably XEQ, Juarez, Chih., now on 750. Mr. Schulz has received about sixty one hundred-watters for a total of 303. He picked up a ten-watter in Carbondale, Pa.

"On Monday night, November 9th, at 11:30 p.m. to 11:45 p.m., I tuned in a station at 920 kcys.," begins Chandler B. Stewart, 59 Parker Ave., Collingdale, Pa. "Someone crowed like a rooster. At 11:45 someone talked from this station to his friends in California, naming about five of them. He said he was in Mexico and having a fine time. Announcement was in Spanish. What station did I have?"

John J. Barlow, 2803 Woolsey St., Berkeley, Calif., would like to know how far away the following stations are being received: KRE, Berkeley; KFRC, San Francisco, KYA, San Francisco, and KXO, El Centro. He would like to hear from other DXers and wants time on the air for KGJF, KVOO, KFDM, KFQD, KIDO, KGIR, KGRS and WDAG.

Lloyd W. Grant, 456 Fourth St., West, Birmingham, Ala., needs the following stations to complete his roster of the states and asks for information as to the best time to tune for them: WDEL, WCSH, KGHL, KFBB, WFEA, WEAN, WJAR and KIDO.

"On Saturday morning, November 7th, at 3:30 a.m., EST, I heard a station

which I understood to be KTM in Los Angeles," writes D. Wharton, 22 Elmwood Ave., Rye, N. Y. "They came in on 384 meters. Pretty good for a 500-watter."

Fred Wakerell, 380 Slater St., Ottawa, Canada, wants to know when WCBD is on the air. Mr. Wakerell logged 69 stations on 49 frequencies in one evening on his Zenith recently.

Donald F. Logan, 17 Park Road, Truro, N. S., Canada, would like to hear from DXers who get Nova Scotia, New Brunswick and Prince Edward Island.

"How about asking some of the DX fans to get us a little 'dope' on Alaska?" Richard D. Caddell, 605 Ridge Ave., N. S., Pittsburgh, Pa., wants to know.

How About WCOC?

In spite of the fact that the station specifically asked for reports of reception and stated they would return verifications promptly with an Ekko stamp free of charge, Chas. E. Summers, 28 Gallatin Ave., Buffalo, N. Y., complains that three different reports of reception of WCOC, Meridian, Miss., remain unanswered as do five follow-up letters. He thinks WCOC must want reports only from Meridian and vicinity.

"WODA, Paterson, N. J., will not verify, so save postage and do not write to them," the Transcontinental DX Club advises its members.

"I recently won the prize from KFXM, San Bernardino, Calif., for long distance reception," reports S. R. Lewis, R. 3, Box 688A, Toledo, Ohio. "My total log is now 750, of which I have 375 verified. More than 200 of these are of 100 watts or less, all verified. I recently caught WHBC, Canton, Ohio, on 1200, using but ten watts. They are on the air at 6:30, EST, most every morning."

"Last Saturday night, instead of tuning at random as usual, I made up a list of fifteen stations I had never had and by patient and persistent tuning, I brought in ten of them. Ain't dat sump-in'?" inquires R. E. Moran, 31 Rochester St., Ottawa, Ont. "I am going to use this plan every DX night and see if I can raise my average."

"With my Atwater Kent Model 55, I get very clearly at night the short-wave police stations, WPDR, KGKM, WRDS, WPDB, WPDC, KGPC, WKDU and the amateur W3XX at Silver Springs, Md.," reports F. S. Keeble, 323 Ozark St., Hot Springs, Ark. "I receive as far west as KFI, Los Angeles, north to WCCO, Minneapolis, east to WGY, Schenectady."

"The Japanese stations are coming in fine here," states Clyde W. Ham, 100 S. Lafayette St., Shelby, N. C. "In the past ten days I have had three new ones, JOCK, JOFK and JOBK. I have verifications from JOIK and JOGK already. Have also had 4QG, 2BL and 3LO. I listened to 4QG for over thirty minutes."

"I listened to two Australian stations without missing a morning from October 17th to October 26th," records Albert Palmer, R. D. 2, Sta. A., East Liverpool, Ohio. "On November 5th from 4:00 to 6:00 a.m., EST, I tuned in 2BL, 4QG, 3LO, 2FC, JOAK, JOHK, JOCK and five West-Coasters." Rather a large morning, we'd call it.

Verifying 502 out of 610 is the claim of Joseph Leo Hueter, 1802 W. Columbia Ave., Philadelphia. He has a long string of JO's and Anzacs, Hawaii, Alaska, Germany, Norway. He will answer letters from DXers anywhere.

Henry Kenderdine, Perkasio, Pa., has brought in 220 stations on his 11-tube Philco since May and "still going strong." He would like to correspond with other DX fans in Eastern Pennsylvania.

"The first night I used my headphones I brought in JOHK, JOIK, in Japan and 3LO and 4QG in Australia," says F. L. Askew, (no address given).

"On the first Sunday in October, I tuned in the seven big Japanese stations with exceptional volume," writes Everett Clark, Box 127, Marietta, Okla. "I have logged 254 stations in the broadcast band, including every channel except 540. We listened to all of the high-powered broadcasters as far east as WLW and north to WJR all through the day, when there is no static. Not long ago I tried out a short-wave converter. I got all the U. S. short-wave program stations,

plenty of hams, caught the airplane calls from a passing mail plane whose motor I could hear both direct and through the radio. I also heard on the twenty-meter band a fellow from the NBC in San Francisco talking to another in Japan, arranging an international broadcast. His signal was as loud at 3:00 p.m. as WFAA's 50 kw. only 100 miles away." Mr. Clark has a nine-tube Model 61 Majestic Super.

A Polish Chain Program

"The first radio hookup in the Polish language ever undertaken in the U. S. was inaugurated Sunday, December 6th," writes Valentine Sadowski, 188 Miller Ave., Buffalo, N. Y. "It featured the Very Rev. Justin Figas, Superior Provincial of the Franciscans, whose headquarters are at Corpus Christi Church, Buffalo. The program originates in the studios of WEBR and goes to WCFL, Chicago; WJBK, Detroit; WJAY, Cleveland; KQV, Pittsburgh, and WKBL, Scranton, known as the Great Lakes Chain. All of these cities contain large Polish populations. Father Justin is an outstanding Polish speaker and has been broadcasting from WEBR for two years. The new program will be on the air each Sunday from 6:00 to 7:00 p.m."

The International Radio Club of Miami, Fla., J. B. Rice, President, has just concluded its second annual international radio party. More than 200 broadcasting stations in North America cooperated in putting Miami on the air in song and story. The program continued for three days, originating in the studios of station WIOD. The CBS and NBC gave their assistance to make this huge party a success. *The Miami Herald* published a large reproduction of the RADEX map of North America with a ring around each of the cities in which the program was reproduced.

"Reds Seize Radio Station; Broadcast Attack on U. S.," is the headline of a newspaper dispatch from Mexico City dated November 8th. "A band of communists forced their way at pistol point into radio station XEW here last night, tied up the operator and took complete control of the plant to broadcast an

attack on the government of President Ortiz Rubio and "Yankee Imperialism." The intruders had disappeared when police arrived." Who logged that one?

Station CKAC, La Presse of Montreal, is now installing Canada's first television station, using Western Television Corp. equipment.

"I have picked up stations FR7, LB2 and EG7 broadcasting between 65 and 67 kcys. Can you tell me who they are?" is the inquiry of K. L. Corless, 420 Forest Ave., Royal Oak, Mich.

"I have caught 182 stations in the past ten weeks," reports F. H. Dodge, P. O. Box 388, Colorado Springs, Colo. "DX reception is considered very rotten here. For about six months in the year there is always an electrical storm within a radius of 150 miles. In addition to this I am in a location which is bothered with one oil heater, an airplane buzz from a hospital and some poor ground connections on the power line transformers. Perhaps someone can tell me of an interference eliminator which will mitigate those three items of trouble." Mr. Dodge submits a list which pretty well covers North America. One odd note from his log is that WGN comes in with a very weak signal, while WMAQ, with one-fifth the power, evidently is well received. "That station which Mr. Wightman wants identified was XEB, Mexico City," Mr. Dodge adds. "I have often heard the same cuckoo and a few nights ago I caught the announcement."

XEV, on 785, gives a DX program every Sunday morning from 1:30 to 2:30 EST, reports Samuel F. Ownes, 233 Roberts Ave., Glenside, Pa.

Push Button Troubles

"Why does my G. E. radio, Model H-32, cut out at intervals which seems to be whenever an electric switch is turned on or off in the house?" inquires Carroll F. Bright, Denton, Md. This is a phenomenon we are unable to explain. Sometimes when a light is switched on or off, a radio set will instantly burst forth with greater volume or it may be decreased. Of course, the aerial picks up the noise of the electrical contact, but there seems to be no reason why it

should have any other effect on the set. "When the set was first purchased," Mr. Bright continues, "the -47 tubes would rattle each time there was a deep note, but I exchanged them for new ones and I have not been troubled since."

"I noticed Mr. Looby's complaining about WCAU and WTEL in the December issue," says Earl C. Pinkerton, 4182 Paul St., Philadelphia, Pa. "I had the same trouble with WCAU until I eliminated my outside aerial entirely, using only the ground wire attached to the aerial post. This gave me great improvement of reception and selectivity on all stations—better, in fact, than with an outside aerial. However, WCAU still covers from 1140 to 1210 kcs. on my set."

"The Mexican which comes in about 705 of which two of your readers make inquiry, is XEM in Tampico," says R. N. Putnam, 920 12th Ave., No. Fargo, N. Dak. The new official list from Mexico gives the frequency of XEM as 1300, but XEN, at Mexico City, is still listed at 711. Mr. Putnam would like to hear from anyone who has used the Stewart-Warner S-W converter or any other good converter which he can use with his Philco 9-tube Superheterodyne.

Here's a New One

Try bringing in the new CKTB, St. Catharines, Ont., on 635 from 7:00 to 7:30 p.m., EST.

"I have brought in 235 stations on my Majestic 8-tube set with 25-foot aerial," advises Howard Schlobohm, 2209 Himrod St., Brooklyn, N. Y. "As I am only fourteen I am not permitted to stay up very often. My best catch was WSPA, Spartansburg, S. C., on 100 watts. Howard sends us a list of stations with their time on the air.

"I have owned an RCA No. 80 for a year and have logged 507 stations with more than 250 verified," is the report that comes from Jas. B. Wooten, 760 Selma St., Mobile, Ala. "Have just completed installing -235s in my set. You can bet it is good, too. Tone is improved about 60%. Selectivity and sensitivity showed improvement. I am now able to get 700, the Spanish-speaking station, at 705 and then 710, not five minutes,

but for thirty minutes. Anyone wishing to put 235s in his set should get the drawing from the manufacturers and that will explain everything. This spring I will install two 250s in place of the 245s I will have a radio then!"

Del Hoisington, 10 Pleasant St., Derry, N. H., would like to hear from someone who owns a Bosch 48C. He also wants a list of coming DX programs. We know of no better list than the one we are publishing from month to month. Usually the special DX programs do not reach us in time for publication in a monthly magazine. Most of them are set but a short time ahead. All of the DX clubs give notice of special DX programs and those which are backed by newspapers have them published in their DX page.

"Here is an experiment I tried some time ago and I hope you will print it," writes T. E. DeLong, 400 West Franklin St., Liberty, Mo. "I conceived the idea of erecting two aerials and cutting in a variometer. I ran one aerial through the outer coil and the other one through the inner coil and from there to the aerial post of the set. I then tried grounding the third tap to the regular ground and here are some of the results: In daylight between 12:00 o'clock and 2:00, I picked up Louisville, Ky., Cincinnati, Denver—all with speaker volume. That night I donned the headphones and tried DXing. My best catch was KPCB, a 100-watt station in Seattle, just 1475 miles away. I have studied RADEX so much that a prominent radio dealer here gives me a fine part-time job, accompanying his salesmen and twirling the dials for them. They just mention some town and thanks to your simple system of tuning and a good memory, I can usually tune them right in."

Two DX tips come from T. J. Johnson, Bowlegs, Okla. KGKY, Scottsbluff, Nebr., on 1500, broadcast a DX program every Friday night from 11:00 to 2:00 a.m., MST. WAWZ, Zarephath, N. J., on 135, has a test program every Tuesday morning, 4:00 to 5:00, CST. Mr. Johnson's log has now reached an even 400, with 296 verified. He has logged 110 of the 129 stations within 500 miles.

Tuning American Stations from Europe

SOME six months ago, I left the United States to visit foreign countries throughout the world and to test radio reception in Europe, Asia and South and Central America. Now I am writing you some facts concerning radio reception at various points throughout the world.

After leaving San Francisco, the first tests were made in Costa Rica, where reception was very poor and only Mexican, South American and U. S. stations were heard. I next tried reception in Panama but here also we found the results very unsatisfactory. After leaving the Canal Zone, however, reception was excellent on our ship all the way across the Atlantic until we reached Africa. In the vicinity of Capetown, reception of European and African stations was very good, though no American station was heard. In Morocco, Spain and France, reception was much better. In France, in fact, it was one hundred percent better than any other place so far found.

California from Poland

Here in Europe I have visited stations and tried reception in France, Germany, Poland, Hungary, Austria, Czecho-Slovakia and Russia, and found reception favorable, especially at the present time. (I am writing this from Warsaw, Poland.) We not only tuned in every station in Europe, Asia and Africa, but many stations in South America, Mexico, Canada and the United States. We were able to tune in the following American stations frequently: KNX, KFI, KPO, KGO, KROW, KGW, KSL, WENR, KWKH, WFLA, KDKA, WGY, WEA, WTIC and WCSH.

The tests I made throughout Europe were with a Phillips receiver and I am sure greater success could have been obtained with American sets such as Philco, Kellogg, Majestic or Norden-Hauck. Here again I have found that with proper grounding systems, reception was very greatly improved. Hundreds of people that I have met through-

Ollie Ross is on
a World-Wide Tour

out Europe were surprised to note the improvement in reception due to a perfect ground.

Invitation to Visit Prince

I am happy to say that I was very well received by officials of radio stations that I have had the good fortune to visit in Europe and other parts of the world. A short time ago I received an invitation to visit Prince Dhai Manohai Lal, at Lahore, India, where we were to spend several months at Kashimer Hills, which is claimed to be the Paradise on earth. If I am to visit all the cities and all the people from whom I have had invitations, it will indeed require at least eighteen months more of traveling. It is very cold here and snow is falling every day and I am not sure how many other places I will be able to visit.

You can't imagine how happy I would be to find a copy of RADEX here in Europe so that I could know what is happening in Radio at home in the United States. While visiting in Europe I have had the pleasure of reading many letters from DX fans in America. In many radio stations, officials have asked me to say a few words to DX fans at home. Let me say here that DXers should be more careful to state the exact time, numbers heard and the exact words that are said or mentioned by foreign announcers. In many letters no mention is made of items heard nor time nor any facts concerning the particular broadcast. It is absolutely necessary that all the above items be given or otherwise a verification will not be made.

Please convey my greetings to the readers of RADEX.

Next month, Susie Sexton will have an interesting story on the actors behind the scenes in "The Rise of the Goldbergs."

Buying a New Set

(Continued from page 3)

he will agree to rigid trial tests, and money-back guarantees. No one should buy a set until he has tested it in his own home. When a dealer hedges about allowing this test, he should immediately be branded as unreliable. Some dealers agree to the sending of two or three styles at the same time for comparison tests, so the most suitable can be chosen. The small profits in midget sets, however, usually preclude any such enterprising efforts to complete the sale.

The set to be selected should have a guarantee, especially for time, and it must be cheerfully replaced within a reasonable period if it fails to please. In disputed cases the full purchase price should be refunded without delay. Most reliable dealers, of which there are many in every community, adhere to these sound principles of good business. Then, too, there is another side to the story; the unreasonable customer whom no one can please—for him we hold no brief.

Some people expect to get wonderful results from midgets with only four tubes, and complain because a neighbor obtains fine tone and distance from an 11-tube superheterodyne. Certainly there are Fords and Lincolns in radio, just as in automobiles, and one should expect results in corresponding measure. But, when one buys a radio set after careful and comparative selection during actual tests in the home, has a complement of reputable and tested tubes, perfect grounds and aerials, a reasonable freedom from local and man-made static, and good home acoustics, he can blame no one but himself if there is dissatisfaction.

Sooner or later the set owner will be confronted with the need for a serviceman. Radio sets get sick; they need doctors, or must visit a hospital. Good radio men are everywhere available, and most of the larger radio shops now have complete servicing departments. This branch of radio is as important as the automobile garage business. An honest serviceman will not tinker with the parts of a receiver that function per-

fectly, simply to make the itemized list of work done a little more imposing and costly. Instead, he will make a careful test and repair or replace only those parts that cause the trouble. There are some radio men, garage mechanics, dentists, doctors and barbers who insist upon delving into this or that—and the average person never returns to them again. Such practices are not good business, and the wise radio man will not indulge in unethical tricks.

Honest repairmen cannot work only for glory. A complete diagnosis of a modern radio receiver takes a long time, unless the trouble and remedy are obvious—such as a bad tube or broken wire. The serviceman must make a fair charge; he has installed expensive testing apparatus and other equipment. If he comes to your home to give the receiver an examination, he usually charges about one dollar, but a physician visiting an ill person would charge several times that amount—and do less manual work and remain a shorter time. Some repairmen charge a flat rate of about two dollars an hour for work done in their shop, and itemized and fixed costs for certain duties prevail. When a serviceman offers a rough estimate for a repair job, but finds other things necessary, he should perform no work on the extras until he has communicated with the owner and explained the situation. This sort of thing is the cause of most of the friction between the owner and serviceman.

After a set has been returned home, and it fails to give good reception, or appears worse than it was before being repaired, the honest and capable worker will again go to work, leaving nothing undone until he repairs the trouble or rectifies the damage he has done. Then there should be no additional charges. The serviceman who is anxious to please and make a name for himself has spent much of his time and money in preparing himself for his task; his future business and reputation are at stake, and he will give cheerful and conscientious service every time.

Did a friend of yours get a new set for Christmas? Tell him about RADEX.

In the Field of Radio

(Continued from page 13)

"Daylight reception in our community is possible only with the most expensive sets so we, most of us, are unable to receive any network programs until 7 or 8:00 o'clock in the evening."

"I have four different aerials that can be used in any combination, but whenever I switch on the ground, my volume is reduced to about one-half," comments Henry Gilfillan, 705 W. Walnut, Kalamazoo, Mich. "In fact I get best results DXing if I use my ground as an aerial." Henry wants to know why there are two WTIC's. There aren't, but WTIC has two frequencies; one for chain programs synchronized with WEAJ and the other for local programs. WBAL on the same frequency has a similar arrangement with WJZ.

For the information of Fred W. Janssen and others, Otto F. Schulze, 2753 Mildred Ave., Chicago, Ill., points out "that anyone having proof of reception from radio stations may convert them into Ekko stamps by sending them to the Ekko Co., 400 W. Madison St., Chicago, who will, upon receipt of ten cents, mail the station stamp and return proof of reception."

Station WIBO, Chicago, confirms the information in RADEX that they mail all listeners enclosing dime with report of reception, an Ekko stamp. They are at a loss to understand complaints regarding them.

W. E. Doty, 310 West 78th St., New York City, thinks the station Chas. C. Norton had was KGPL on 1712 kcs., owned by the City of Los Angeles, and not KGBL.

"Some one asked if Pacific Coasters heard stations on the Atlantic," says L. H. Miller, 212 N. H. Street, Fresno, Calif., and adds: "About two weeks ago I heard CMK, Havana, and WSB, Atlanta. Last night I heard KDKA, Pittsburgh. These stations were received on a four-tube Meteor midget. My aerial is 100 feet of 24-carat gold-plated seven-strand wire and my ground is an old automobile radiator buried three feet in rock salt."

Ovide C. Harris, 4206 Gen. Ogden St., New Orleans, La., wants to know the

best time to tune for Japanese stations in his locality. Also "Who are makers of an apparatus called Supertone? What is the meaning of 'By electrical transcription for broadcast purposes only?'" In reply to his last question, this is merely a high-sounding name for phonograph records. Many programs nowadays are made up in studios and sent to subscribing broadcasting stations for reproduction in their studios. The plan is the same as in the talkies, where the films are made in studios and sent to theatres everywhere for showing.

"On Sunday morning, between 2:00 and 2:30, EST, November 29th, I heard a station on 1340 or 1350 kcs. which sounded to me like 3-BA or 3-PZ calling WLX, and about an hour later I heard him calling Palm Beach, Fla.," reports Alfred Razzando, R. F. D. 1, Fayette City, Pa. This may have been amateur station W3BA (Alfred W. Kurz, Jr., 5551 N. Sixth St., Philadelphia, Pa.) or W3PA (Arthur S. Mattes, State Police Barracks, Reading, Pa.) or W3PZ (Joseph F. Slowik, 2207 E. Baltimore St., Baltimore, Md.). WLX is listed to Army Barracks in the Philippines. Alfred now has over 300 stations with only Wyoming lacking in the U. S.

Roger D. Causse, P. O. Box 6688, Lester, Pa., wants information regarding KRA, broadcasting on 50.3 meters about 4:00 a.m., EST. Mr. Causse wants to know how RUS can be assigned to El Salvador when the official key letter for that country is YS. He now has 35 stations verified more than 2000 miles away, and is awaiting verifications from seventeen foreign stations. For short wavers, Mr. Causse advises that a new station, CMCI, Havana, Cuba, announces that they intend to make the short-wave programs a regular feature.

"While I was listening to WOI, Ames, Iowa, on 640 kcs., during the Ames-Nebraska game, Saturday afternoon, WBBM was clearly heard in the background on the same frequency as WOI, 640. When I turned to WBBM's correct frequency, 770 kcs., there was WBBM carrying on. Might the reason have been a harmonic of some sort? This query comes from Greer McCrory, 606 Second St., S. W., Cedar Rapids, Iowa.

Noe Duranceau, 231 Hunter St., Peterboro, Ont., thinks WSVS, Buffalo, must have greater power than we give them as he gets it every day since November 17th, while before that he never received them. How about it, Buffalo, has WSVS increased power lately? This reader would like time on the air for the following stations: CHCS, WBIS, KFKX, WBOQ, WEEU, WCBD. Some of these exist only as call letters as shown in this issue of the index.

"On November 30, at 2:10 a.m., I heard a call on 1360 kcs.," states John J. Swatko, 316 Second Ave., Homestead, Penna. "It was 'WVOE calling, do you hear me, KCCO3?' Can someone give me some information on this? We fear the latter call is incorrect, but who is WVOE? Mr. Swatko submits the slogan: "Without RADEX you are lost at Radio."

Bela Bacskai Payerle, Managing Editor of "Kanadai Magyar Aisag," wants to know the stations broadcasting programs in Hungarian (Magyar) and the time; Who can supply this information? Mr. Payerle's address is 375 Hargrave St., Winnipeg, Man.

"Is WJSV ever on the air when WLAC and KSTP are silent?" queries C. W. Thomas, McAlester, Okla. "I have never been able to get them on account of interference."

The Month's Changes

(Continued from page 19)

	Location
900 WLBL	Stevens Point, Wis., to Ellis, Wis.
1180 KOB	State College, N. M., to Albuquerque, N. M.
1200 KSMR	Santa Maria, Calif., to Bakersfield, Calif.
WBBZ	Ponca City, Okla., to Arkansas City, Kas.
1310 KGFV	Ravenna, Neb., to Kearney, Neb.
1370 WJTL	Tifton, Ga., to Atlanta, Ga.
	Deleted
1300 KGEF	Los Angeles, Calif.
XETY	Mexico, Mexico.
1360 XETO	Mexico, Mexico.
1420 KFGW	Seattle, Wash.
WIBR	Steubenville, Ohio.
1490 WJAZ	Chicago, Ill.
	Chains
950 KGHL	Billings, Mont., new NBC.
1200 KOIL	Council Bluffs, Iowa, CBS to NBC.
1300 KGR	Butte, Mont., new NBC.
1440 WBIG	Greensboro, N. C. New CBS.
	Calls
890 KGJF	Little Rock, Ark., to KARK.
1200 CMJA	Camaguey, Cuba, to CMJG.
	Owners
1430 WFEA	Manchester, N. H., to New Hampshire Broadcasting Co.
	Permit to Change Frequency
1370 KFJI	Astoria, Ore., to 1210.
	Permit to Move
1370 KFJI	Astoria, Ore., to Klamath Falls, Ore.

Radio Troubles

(Continued from page 10)

power transformer furnishing current to a radio set?

If the short circuit is between but a few turns of wire in the primary winding of the power transformer there likely will be no evidence of the trouble. But if many turns are thrown out of use by a general short circuit the transformer will become hot after a short period of operation; its transforming efficiency will be impaired because the magnetic field will become weakened and it cannot induce sufficient voltage in the secondary windings; and, in most cases, the 110-volt wire leading to the receiver will be overloaded, and the fuses will burn out, thus saving the coils from further heating and electrical strain.

Power Tube Causes Hum

When the -26 tube in the power amplifier of my Victor RE-45 receiver is moved it develops a hum which may be stopped by still further moving of the -26 tube. Why is this?

The -26 tube in the power stage of your receiver is fitted with a potentiometer across the two filament leads to the socket. This arrangement is supposed to suppress the tendency of the tube to hum. If properly adjusted, the device will prevent the hum of the tube. It is evident that, by moving the tube, the suppressor is not adjusted properly or there is a loose connection. We suggest that this particular socket and resistor be examined for poor connections or defects. If this fails, the tube may need replacing or shielding with a hum or howl arrester.

Changing From 6 to 12-Volt Tubes

I have a Silver-Marshall 710 receiver that I would like to change from six-volt battery tubes to the new two-volt tubes. How can I do this work myself? Also, if I should use a six-volt storage battery, how can I reduce it down to two volts for the new tubes?

The change will not increase the efficiency of your receiver—in fact, it will be slightly less. But there will be a saving in battery current, and better adaptability for isolated regions. It will

(Continued on page 32)

KEY TO CHAIN STATIONS

State	City	Columbia WABC	Red—WEAF	National Blue—WJZ	Both
Alabama—	Birmingham	WBRC 930			WAPI 1140
Arizona—	Phoenix				KTAR 820
Arkansas—	Hot Springs				KTHS 1040
	Little Rock	KLRA 1390			
California—	Los Angeles	KHJ 900			KECA 1430
	San Diego	KGB 1330			KFI 640
	San Francisco	KFRC 610			KFSD 600
					KGO 790
					KPO 680
Colorado—	Colorado Springs	KVOR 1270			
	Denver	KLZ 560			KOA 830
Connecticut—	Hartford	WRDC 1330	WTIC 660		
Dist. of Col.—	Washington	WMAL 630			WRC 950
Florida—	Clearwater				WFLA 620
	Jacksonville				WJAX 900
	Miami	WQAM 560			WIOD 1300
	Orlando	WDBO 1120			
	St. Petersburg				WSUN 620
	Tampa	WDAE 1220			
Georgia—	Atlanta	WGST 890			WSB 740
	Savannah	WTOC 1260			
Illinois—	Chicago	WBBM 770	WCFL 970	WLS 870	
		WGN 720			KYW 1020
		WJJD 1130			
					WENR 870
Indiana—	Fort Wayne	WGL 1370			WMAQ 670
		WOWO 1160			
		WFBM 1230			
Iowa—	Indianapolis			KOIL 1260	
	Council Bluffs				WOC 1000
	Davenport				WHO 1000
	Des Moines				
	Sioux City	KSCJ 1330			
	Waterloo	WMT 600			
Kansas—	Topeka	WIBW 580			
	Wichita	KFH 1300			
Kentucky—	Covington				WCKY 1490
	Hopkinsville	WFIW 940			
	Louisville	WLAP 1010			WHAS 820
Louisiana—	New Orleans	WDSU 1250			WSMB 1320
Maine—	Bangor	WLBZ 620			
	Portland				
Maryland—	Baltimore	WCAO 600	WCSH 940	WBAL 760	
Massachusetts—	Boston	WAAB 1410	WFBR 1270	WBZA 990	
		WNAC 1230	WEEI 590		
	Springfield			WBZ 990	
	Worcester	WORC 1200	WTAG 580		
Michigan—	Bay City	WBCM 1410			
	Detroit	WXYZ 1240			
Minnesota—	Minneapolis	WCCO 810	WWJ 920	WJR 750	
	St. Paul				KSTP 1460
Mississippi—	Jackson				WJDX 1270
Missouri—	Kansas City	KMBC 950		WREN 1220	WDAF 610
	St. Louis	KMOX 1090	KSD 550	KWK 1350	
Montana—	Billings				KGHL 950
	Butte				KGIR 1360
Nebraska—					
	Omaha				WOW 590
Nevada—	Reno	KOH 1380			
New Jersey—	Atlantic City	WPG 1100			
New York—	Albany	WOKO 1430			
	Buffalo	WGR 550	WBEN 900		
		WKBW 1480			
	New York City	WABC 860	WEAF 660	WJZ 760	
	Rochester	WHEC 1430		WHAM 1150	
	Schenectady		WGY 790		
	Syracuse	WFBL 1360			
North Carolina—	Asheville				WWNC 570
	Charlotte	WBT 1080			
	Raleigh				WPTF 680
	Greensboro	WBIG 1440			
North Dakota—	Bismarck				KFYR 550
	Fargo				WDAY 940
Ohio—	Akron	WADC 1320			
	Cincinnati	WKRC 550	WSAI 1330	WLW 700	
	Cleveland	WHK 1390	WTAM 1070	WGAR 1450	
	Columbus	WAIU 640			
		WCAH 1430			

State	City	Columbia WABC	Red—WEAF	National Blue—WJZ	Both
	Toledo	WSPD 1340			
	Youngstown	WKBN 1570			
Oklahoma—	Oklahoma City	KFJF 1480			WKY 900
	Tulsa				KVOO 1140
Oregon—	Portland	KOIN 940		KEX 1180	KGW 620
Pennsylvania—	Harrisburg	WHP 1430			
	Oil City	WLBW 1260			
	Philadelphia	WCAU 1170			
	Pittsburgh	WIP 610	WFI 560		
	Providence	WJAS 1290	WLIT 560		
Rhode Island—	Columbia	WEAN 780	WCAE 1220	KDKA 980	
South Carolina—	Yankee	WNAX 570	WJAR 890		WIS 1010
South Dakota—	Chattanooga	WDOD 1280			
Tennessee—	Knoxville	WNOX 560			
	Memphis	WREC 600			WMC 780
	Nashville	WLAC 1470			WSM 650
Texas—	Dallas	KRLD 1040			WFAA 800
		WRR 1280			
	Fort Worth				WBAP 800
	Houston	KTRH 1120			KPRC 920
	San Antonio	KTSA 1290			WOAI 1190
	Waco	WACO 1240			
Utah—	Salt Lake City	KDYL 1290			KSL 1130
Virginia—	Norfolk	WTAR 780			
	Richmond				WRVA 1110
	Roanoke	WDBJ 930			
Washington—	Seattle	KOL 1270		KJR 970	KOMO 920
	Spokane	KFPY 1340		KGA 1470	KHQ 590
	Tacoma	KVI 760			
West Virginia—	Wheeling	WWVA 1160			
Wisconsin—	Eau Claire	WTAQ 1330			
	LaCrosse	WKBH 138			
	Madison				WIBA 1280
	Milwaukee	WISN 1120			WTMJ 620
	Superior				WBC 1290
Canada—	Toronto	CFRB 690			CKGW 840
	Montreal	CKAC 730			CFCF 1030

Radio Troubles

(Continued from page 30)

be necessary to remove the resistors now in the circuit and replace them with short lengths of wire. One of these is a 1-ohm resistance in the rear of the switch and in series with the entire filament battery or A circuit. It should be replaced with a piece of wire. There is another—(3-ohm resistor)—that is grounded at one end to the metal chassis and connected at the other to the -A side of the first four radio frequency or screen-grid tubes; replace it also with a length of wire so as to close the circuit.

Replace the present tubes with four -32 screen-grid tubes, two -30 detector-amplifier tubes, and one -33 pentode power tube. Connect the plate of the -33 to terminal 3 of the power output transformer in the right-hand section of the receiver in case the connection is not made that way at present. A 7-ohm resistance is used to cut down the six volts of the storage battery to the two volts necessary for these tubes. Connect

in series, and do not turn on the battery unless all of the tubes are in place in their sockets.

Interfering Howls

I have trouble with my set when tuning below 300 meters with the high voltage switch on. There are loud howls and squawks on each side of the stations being tuned in. What is the reason and remedy?

The noises you complain of are common and beyond your control. The many stations operating below 300 meters cause severe interference, and when a set is tuned in to stations in this band there will be many howls and squawks. You have not mentioned the make of your receiver, but some sets create a bedlam of howls and squeals when stations are tuned in on the lower wave lengths. There is no remedy with your particular set until our Government thins out many stations that are now crowded together on similar wave lengths. Tune in a station with the volume toned down, and when cleared up, make louder by increasing the volume.

WHAT'S ON THE AIR TONIGHT?

COLUMBIA.....WABC

NATIONAL, Red.....WEAF

NATIONAL, Blue.....WJZ

For quick reference, fill in below the dial numbers at which you best hear the three chains.
You can then turn quickly to one that has the feature you want.

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Time is given by Eastern Standard; for Central, subtract one hour; for Mountain, subtract two hours; and for Pacific, subtract three hours.

Columbia.....WABC DAILY (Except Sunday)

12:30 Columbia Revue (Ex. Sat.)
CFRB KDYL KFH KEJF KFPY
KFBC KGB KHJ KLZ KMOX KOH
KVI KVOR WABC WACO WADC
WBRC WDBO WDOD WDRG WDSU
WEAN WFBL WGR WHEC WHP
WISN WJAS WLBW WLAP WLWB
WMAL WMT WNAC WOKO WORC
WOWO WPG WQAM WSPD WTAQ
WWVA WXYZ

2:30 American School of Air (Ex. Sat.)
KDYL KFH KEJF KFPY KFRC
KGB KHJ KLZ KMBC KMOX
KOH KOL KRLD KTSa KVI KVOR
WABC WADC WBBM WBCM WBRC
WBT WCAO WCCO WDAE WDBJ
WDBO WDOD WDRG WDSU WEAN
WFBL WFBM WGR WHEC WHK
WHP WIBW WISN WJAS WKRC
WKRC WLAP WLWB WLWB WMAL
WMT WNAC WNAX WOKO WORC
WOWO WPG WQAM WSPD WTAQ
WTCO WWVA WXYZ

7:00 Myrt and Marge (Ex. Sat.)
KMOX WABC WADC WACO WCAU
WDRG WEAN WFBL WGR WJAS
WKRC WMAL WNAC WOKO WSPD
WWVA

7:15 Cremo, Bing Crosby
WABC WACO WADC WBIG WBT
WCAH WCAO WCAU WDAE WDBJ
WDBO WDRG WEAN WFBL WGR
WHEC WHK WHP WJAS WKRC
WLWB WLWB WMAL WNAC WOKO
WORC WOWO WQAM WRR WSPD
WTAR WTCO WXYZ

7:30 Baker, Boswell Sisters (Ex. Tues., Thurs., Sat.)
KFH KMBC KMOX WADC WCAH
WCCO WDRG WEAN WFBL WGR
WHK WISN WJAS WKRC WNAC
WOKO WORC WSPD WWVA WXYZ

7:45 Camel, Morton Downey
KFH KEJF KLRA KMOX KRLD
KSCJ KTRH WABC WACO WADC
WBIG WBRC WBT WCAH WCAO
WCAU WCCO WDAE WDBJ WDBO
WDOD WDRG WDSU WEAN WFBL
WFBM WGR WGST WHEC WHK
WHP WIBW WISN WJAS WKRC
WLAC WLAP WLWB WMAL WMT
WNAC WNAX WNOX WOKO WORC
WQAM WREC WSPD WTAR WTCO
WWVA WXYZ KMBC

8:00 Columbiains, Freddie Rich (Ex. Tues., Thurs., Sat.)
CFRB KDYL KFH KEJF KFPY
KGB KHJ KMBC KMOX KOH
KRLD KVOR WABC WACO WADC
WBCM WBRD WBT WCAO WCCO
WDAE WDBO WDOD WDRG WDSU
WEAN WFBL WFBM WGL WGR
WGST WHEC WHK WHP WIBW
WISN WJAS WLAP WLWB WLWB
WMAL WMT WNAX WOKO WORC
WPG WQAM WSPD WTAQ WTCO

National, Red.....WEAF DAILY (Except Sunday)

8:00 Gene and Glenn
WBEN WCAE WOSH WEAF WEI
WFI WGY WJAR WRC WSAI WTAG
WTAM WTIC WWJ

8:15 Morning Devotions
KFYR WBEN WCAE WCKY WOSH
WEAF WFBR WFI WFLA WGY
WHAS WIBA WIOD WIS WJAR
WJAX WJDX WOW WPTF WRC
WRVA WSMB WTAG WTIC WWJ
WWNC

8:30 Cheerio
CFCE CKGW KPRC WAPI WBEN
WCAE WCKY WOSH WDAF WFAF
WEI WFBR WFI WFLA WGY
WHAS WIOD WIS WJAR WJAX
WJDX WKY WOAI WOW WPTF
WRC WRVA WSMB WSM WSMB
WTAG WTAM WTIC WWJ WWNC

3:00 Woman's Radio Review (Ex. Sat.)
KSD KYW WBEN WCAE WOSH
WDAF WFAF WEI WPI WGY
WHO WJAR WOC WOW WRC
WSAI WTAG WTAM WTIC WWJ

4:30 Phil Spitalny Tea Dansante
KSD WBEN WCAE WFAF WEI
WGY WHO WJAR WOC WTAG
WTAM WWJ

5:00 Lady Next Door (Ex. Thur.)
KSD WEAF WENR WJAR WRC
WTAG WTAM

5:45 Russ Columbo and Orch. (Ex. Tues., Thurs., Sat.)
KSD WBEN WOSH WDAF WFAF
WEI WENR WFBW WGY WHO
WJAR WLIT WOC WOW WRC
WSAI WTAG WTIC WWJ

6:00 Waldorf-Astoria Orchestra
CKGW KFSD KGO KSD KSL WAPI
WCAE WCKY WFAF WEI WENR
WFI WHAS WIOD WIS WJDX WKY
WRC WSM WTAM

6:45 Swift, Stebbins Boys (Ex. Sat.)
KSD WBEN WCAE WOSH WFAF
WEI WFI WGY WJAR WRC WSAI
WTAG WTAM WTIC WWJ

7:15 Campbell, Lannin Orch. (Ex. Tues., Sat.)
WBEN WOSH WDAF WFAF WENR
WFBR WGY WJAR WLIT WOW
WRC WSAI WTAG WTAM

7:30 Prince Albert, Alice Joy
KFYR KSTP WBEN WOSH WDAF
WDAY WFAF WNBC WEI WFBR
WFLA WGY WIBA WIOD WIS
WJAR WJAX WSAI WLIT WOAI
WRC WRVA WBY WTAG WTAM
WTMJ WWJ WWNC

7:45 The Goldbergs, Comedy Sketch
WBEN WCAE WFAF WENR WGY
WSAI WTAM WWJ

10:00 Lucky Strike Walter Winchell (Ex. Mon., Wed., Fri.)

KFI KFSD KFYR KGO KGW KHQ
KOA KOMO KPRC KSD KSL KSTP
KTAR WAPI WBEN WCAE WOSH

National, Blue.....WJZ DAILY (Except Sunday)

12:30 National Farm and Home Hour
KDKA KFAB KFYR KOA KPRC
KSTP KTHS KVOO KWK KYW
WAPI WBAL WBZA WCKY WDAF
WDAY WEBC WFLA WGR WHAM
WHAS WHO WIBA WIOD WJDX
WJDX WJR WJZ WLW WMC WOC
WOW WPTF WRC WREN WRVA
WSB WSM WSMB

5:30 Old Pappy Negro Sketches
KWK WJZ WREN

5:45 Little Orphan Annie
WBAL WFLA WGR WHAM WIOD
WJAX WJZ WLW WPTF WRVA

6:00 Raising Junior (Ex. Wed.)
KWK KYW WHAL WEBC WGR
WHAM WIBA WJZ

6:45 Literary Digest, Lowell Thomas
KDKA WBAL WBZA WHAM WJZ
WLW

6:45 Little Orphan Annie
KFYR KPRC KSTP KWK WDAY
WEBC WENR WKY WOAI WREN

7:00 Amos 'n' Andy
CFCE CKGW KDKA WBAL WBZA
WCKY WFLA WGR WHAM WIOD
WJAX WJR WJZ WLW WPTF WRC
WRVA

7:15 Tastyest Jesters (Ex. Tues., Wed., Fri.)
KDKA WBAL WBZA WCKY WFLA
WGR WHAM WIOD WJAX WJZ
WPTF WREN WRVA

7:30 Phil Cook, Quaker Man (Ex. Sat.)
KDKA KWK WBAL WBZA WENR
WGR WHAM WJZ WREN

8:45 Sisters of Skillet (Ex. Mon., Wed., Sat.)

KDKA KFYR KOIL KPRC KSTP
KVOO KWK WJAP WBZA WDAY
WEBC WHAM WJZ WKY WLS
WOAI WREN WTMJ

10:00 Russ Columbo and Orchestra (Ex. Mon., Wed., Fri.)
KWK WBAL WCKY WGR WJR
WJZ WREN

10:30 Clara, Lu and Em (Ex. Mon.)
KDKA KWK KYW WBAL WBZA
WCKY WGR WHAM WJR WJZ
WREN

11:00 Amos 'n' Andy
KECA KFSD KGO KGW KHQ KOA
KOIL KOMO KPRC KSL KSTP
KTHS KWK WJAP WDAF WEBC
WENR WHAS WIBA WJDX WKY
WMAQ WMC WOAI WREN WSB
WSM WSMB WTMJ

11:15 Literary Digest, Lowell Thomas
KFYR KOIL KWK WDAY WEBC
WMAQ WREN

11:45 Lew White, Organ (Ex. Tues., Fri.)
KDKA KFAB KFYR WBAL WENR
WJZ WRC WREN WSB

12:00 Mildred Bailey and Jesters (Ex. Tues., Fri.)
KDKA WENR WBAL WJR WJZ

Columbia ----- **WABC** **National, Red** ----- **WEAF** **National, Blue** ----- **WJZ**

8:00 Col. Stoopnagle and Budd (Ex. Mon., Wed., Fri.)
CFRB KDYL KFH KFJF KFPY KGB KMBC KMOX KOH KRLD KTSa KVOR WABC WACO WADC WBCM WBRC WBT WCAO WCCO WDBJ WDOB WDDO WDRC WDSU WEAN WFBL WFBM WGL WGR WHEC WHK WHP WIBW WISN WLAC WLAP WLBW WLBZ WML WMT WNAC WNAX WOKO WORC WPG WQAM WSPD WTOC WWVA WXYZ

8:15 Singing Sam, Barbasol (Ex. Tues., Thurs., Sat.)
KMBC KMOX WABC WADC WCAO WCAU WCCO WDRC WEAN WFBL WFBM WGN WHK WJAS WKBW WKRC WMAL WNAC WOKO WSPD WXYZ

8:15 Sterling, Abe Lyman's Band (Ex. Mon., Wed., Fri.)
KFJF KMBC KMOX WABC WADC WCAO WCAU WCCO WDRC WDSU WEAN WFBL WFBM WGN WGR WGST WHK WJAS WKRC WML WNAC WREC WSPD WXYZ

8:30 Kate Smith, La Palina (Ex. Fri. and Sat.)
KMBC KMOX WABC WADC WBCM WCAH WCAO WCAU WCCO WFBL WFBM WGR WHEC WHK WISN WJAS WKRC WLAP WMAL WSPD WXYZ

10:30 Chesterfield, Shilket Orch.
CFRB KDYL KFJF KFPY KGB KLZ KMBC KOH KTSa KVOR WAAB WABC WACO WADC WBCM WBRC WBT WCAO WDAE WDBJ WDOB WDDO WDRC WDSU WEAN WFBL WFBM WHEC WHP WIBW WISN WJAS WKBW WKRC WLAP WLBW WLBZ WML WMT WNAX WOKO WORC WOWO WPG WQAM WSPD WTAQ WXYZ

10:45 Myrt and Marge (Ex. Sat.)
KDYL KFPY KFCR KHJ KLZ KMBC KOIN KOL WBBM WCCO WLAP WXYZ

11:00 Crexy, Bing Crosby
KDYL KFH KFJF KFPY KLRA KLZ KMBC KMOX KOH KOIN KOL KSCJ KTRH KTSa WBCM WBRC WCOO WDDO WDSU WFBM WGN WGST WIBW WISN WLAC WLAP WMT WNAX WNOX WOWO WREC

11:15 Street Singer (Ex. Tues., Thurs., Sat.)
CFRB KDYL KFH KFJF KFPY KGB KLZ KMBC KOH KTSa KVOR WAAB WABC WACO WADC WBCM WBRC WBT WCAO WDAE WDBJ WDOB WDDO WDRC WDSU WEAN WFBL WFBM WHEC WHP WIBW WISN WJAS WKBW WLBW WLBZ WML WMT WNAX WOKO WORC WOWO WQAM WSPD WTOC

11:15 Jack Miller and Orch. (Ex. Mon., Wed., Fri.)
CFRB KFJF KFPY KFCR KGB KLZ KMBC KOH KVOR WAAB WABC WACO WADC WBCM WBRC WBT WCAO WDBJ WDOB WDDO WDSU WEAN WFBL WFBM WHEC WHP WIBW WISN WRBW WLAC WLAP WLBW WLBZ WMT WNAX WOKO WORC WOWO WQAM WSPD WTOC

11:30 Camel, Morton Downey
KDYL KFPY KFCR KGB KHJ KLZ KOH KOIN KOL WGN WOWO

WDAF WDAY WEAF WEBC WEEI WENR WFAA WFBR WFI WFLA WGY WHAS WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WMC WOAI WOC WRC WRVA WSAI WSB WSM WSMB WTAG WTAM WTIW WTMJ WWJ WNNC

11:00 Marion Harris, Songs (Ex. Mon., Wed.)
KSD WCAE WEAF WFI WGY WIOD WIS WJAX WRC WTIW WWJ WNNC

11:15 Prince Albert, Alice Joy
KPRC KSD KTHS WAPI WBAP WENR WHAS WHO WJDX WMC WOC WOW WSB WSM WSMB

SUNDAY

11:30 Major Bowes' Family
WCKY WDAF WEAF WENR WHO WOC WTAM WTIW

1:30 Silver Flute
CFRC KSD WBN WCAE WDAF WEAF WEEI WFI WGY WHO WJAR WMAQ WOC WTAG WTAM WTIW WWJ

1:45 Old Company's Program
CFRC CKGW WBN WCSI WEAF WEEI WFI WGY WJAR WRC WTAG WTIW

2:15 Bright Spot, Pettis Orch.
CFRC CKGW KEA KFSB KFJR KGW KHQ KOA KPO KPRC KSD KSL KSTP KTAR KVOO KYW WAPI WBN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFAA WFBR WFLA WGY WHAS WHO WIOD WJAR WJAX WJDX WKY WLIT WMC WOAI WOC WOW WPTP WRC WRVA WSAI WSB WSM WSMB WTAG WTAM WTIW WTMJ WWJ

2:30 Moonshine and Honeysuckle, Drama
KSD WCAE WCSI WDAF WEAF WEEI WFBR WGY WJAR WMAQ WOW WRC WTAG WTAM WTIW WWJ

3:00 Wayne King's Orchestra
KSD KYW WBN WCAE WCSI WDAF WEAF WEEI WGY WHO WJAR WLIT WOC WOW WRC WSAI WTAG WTAM WTIW WWJ

3:30 Dr. S. Parkes Cadman
KFSB KFYR KGO KGW KHQ KOA KOMO KPRC KSD KSL KSTP KTHS KVOO KYW WCAE WCSI WDAF WDAY WEAF WEBC WEEI WFBR WFLA WGY WHAS WIOD WIS WJAR WJAX WJDX WKY WMC WOAI WOW WPTP WRC WRVA WSAI WSB WSM WSMB WTAG WTIW WWJ WNNC

4:00 Florsheim Frolic, Grofe's Orch.
KPI KFSB KFYR KGO KGW KHQ KOA KOMO KPRC KTAR KTHS KVOO WAPI WBAP WBN WCAE WCSI WDAF WDAY WEAF WEBC WEEI WFBR WFLA WGY WHAS WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WMAQ WMC WOAI WOC WOW WPTP WRC WRVA WSAI WSB WSM WSMB WTAG WSAI WTIW WWJ WNNC

4:30 Wonder Program, Shields' Orch.
WBN WCAE WCSI WDAF WEAF WEEI WENR WFBR WFI WGY WHO WJAR WOC WOW WRC WSAI WTAG WTAM WTIW WWJ

5:00 Cosmopolitans, String Ensemble
CFRC WCAE WCSI WDAF WEAF WEEI WFBR WFI WGY WHO WJAR WOC WRC WSAI WTAG WTAM WTIW WTIW

SUNDAY

11:30 Morning Musicale
KFAB KPO KPRC KWOO KWK WAPI WBAL WDAY WFLA WHAM WHAS WJZ WKY WLW WMC WPTF WREN WSM WTMJ KOA

12:30 Balkan Mountain Men
KDKA KECA KEX KGA KJR KPO WBAL WCKY WGAR WHAM WJZ

1:00 Sentinels of the Republic
KDKA KFAB KFYR KGO KGW KOA KOMO KPRC KSL KSTP WAPI WBAL WDAY WEBC WGAR WHAS WIBA WIOD WJAX WJZ WRC WSM

1:15 Walter Damrosch Hour
KDKA KFAB KFI KFSB KFYR KGO KGW KOA KOMO KPRC KSL KSTP KTAR KVOO KWK WBAL WBAZ WDAY WEBC WFAA WFLA WHAS WIBA WIOD WIS WJDX WJK WJZ WKY WLW WMAQ WOI WRC WREN WSB WSM WSMB WNNC

2:15 Careless Love, Negro Drama
KDKA WBAL WCKY WJZ WREN

2:30 Yeast Foamers, Kay's Orch.
KDKA KECA KFSB KGW KHQ KOA KOIL KPO KPRC KSL KSTP KTAR KTHS KVOO KWK KYW WAPI WBAL WBAZ WEBC WFAA WFLA WGAR WHAM WHAS WIOD WIS WJAX WJDX WJR WJZ WKY WLW WMC WOAI WPTF WREN WRVA WSB WSM WSMB WTMJ WNNC

3:00 National Youth Conference
KDKA KFSB KGO KGW KHQ KOA KOMO KPRC KTHS KVOO WAPI WBAL WCKY WFLA WGAR WIOD WIS WJAX WJDX WJZ WKY WMAQ WMC WOAI WPTF WRVA WSB WSMB WNNC

4:00 Travelogue, Malcolm LaPrade
CFRC CKGW KDKA KWK WBAL WBAZ WGAR WJZ WLW WMAQ

4:30 Musical Showmen
CKGW KDKA KOIL KWK WBAL WHAM WJZ WMAQ

5:00 National Vespers
KFI KFSB KFYR KGO KGW KHQ KOMO KPRC KSTP KTHS KVOO KWK WBAL WBAZ WCKY WDAY WEBC WFAA WFLA WGAR WHAM WBA WIOD WIS WJDX WJZ WKY WMAQ WOAI WPTF WREN WRVA WSB WSM WSMB WNNC

5:30 Simoniz Guardsmen
KOIL KWK KYW WBAL WBAZ WGAR WHAM WJZ WLW WREN

6:45 Adventures Barbara Wayne
KWK WBAL WBAZ WGAR WJR WJZ WLW WMAQ WREN

7:00 Willys-Overland Orchestra
KDKA KFI KFSB KFYR KGO KGW KHQ KOA KOIL KOMO KSL KSTP KTAR KWK KTW WBAL WCKY WDAY WEBC WGAR WBA WJR WJZ WREN WTMJ

7:15 Dalhart Instrumental Trio
KDKA KWK WBAL WFLA WHAM WHAS WJZ WLS WREN WRVA WNNC

7:30 The Three Bakera
KDKA KFI KFSB KFYR KGO KGW KHQ KOA KOMO KPRC KSL KSTP KTAR KVOO KWK KYW WBAL WBAZ WDAY WEBC WFAA WFLA WGAR WHAM WHAS WBA WIOD WJDX WJR WJZ WKY WLW WMC WOAI WREN WRVA WSB WSM WSMB WTMJ

SUNDAY

1:00 Cathedral Hour
CFRB KDYL KFJF KFPY KLZ
KMBC KOH KOL KRLLD K TSA KVI
KVOR WAAB WABC WADC WBCM
WBRC WBT WCAE WCO WDBJ
WDBO WDDO WDRC WDSU WFBL
WGL WGR WHEC WHP WJAS
WKBH WLAP WLWB WLWZ WMAL
WOKO WORC WOWO WPG WQAM
WTOC WVVVA WXYZ

1:45 Venida Program
KMBC KMOX WAAB WABC WBBM
WCAU WDRC WFBL WGR WHK
WJAS WKRC WMAL

2:00 Sons of Eli, Spirituals
KMBC KMOX KRLLD WABC WADC
WBBM WBRC WBT WCAE WCAU
WCOO WDRK WDSU WEAN WFBL
WGR WHK WJAS WKRC WLAC
WMAL WNAC WOWO

2:30 Columbia Church of Air
KDYL KFJF KFJF KFPY KFCR
KGB KLZ KMBC KOH KOL KVOR
WAAB WABC WACO WADC WBCM
WBT WCAO WCOO WDAE WDBJ
WDBO WDDO WDRC WDSU WFBM
WGL WHEC WHP WIBW WJAS
WKBH WKBC WKRC WLAP WLWB
WLWZ WMAL WOKO WORC WPG
WQAM WTOC WVVVA WFBL

3:00 N.Y. Philharmonic Symphony Orch.
CFRB KDYL KFJF KFPY KFCR
KGB KHJ KLZ KMBC KMOX KOH
KOL KVI KVOR WAAB WABC
WACO WADC WBRW WBT WCAO
WCOO WDAE WDBJ WDBO WDSU
WEAN WFBM WGL WHEC WHK
WIIP WISN WJAS WKBH WKBC
WKRC WLAP WLWB WLWZ WMAL
WOKO WORC WQAM WSPD WTOC
WVVVA WXYZ

5:00 Rev. Donald Grey Barnhouse
KFH KRLLD WAAB WABC WADC
WBT WCAU WCOO WFBL WGR
WJAS WKRC WLAC WOWO WSPD
WXYZ

5:30 Blue Coal Radio Revue
CFRB WAAB WABC WCAO WCAU
WDRC WEAN WFBL WGR WHEC
WHP WOKO WORC

6:00 Chicago Knights
KDYL KFJF KFPY KFCR KGB
KHJ KLZ KMOX KOH KOL KRLLD
KVI KVOR WACO WIBW WISN
WKRC WLAP WVVVA

6:30 Barnsdall Musical Memories
KLRA KMBC KMOX KSCJ WCOO
WGL WGN WIBW WISN WMT
WSPD WXYZ

7:00 The World's Business
KFH KFJF KFPY KFCR KGB KHJ
KLZ KMBC KOH KOL KRLLD KVI
KVOR WABC WACO WADC WBT
WCOO WDAE WDBJ WDBO WDOD
WDSU WFBM WGL WGR WHEC
WHP WIBW WISN WJAS WKBH
WKRC WLAP WLWB WLWZ WMAL
WNAX WOKO WPG WQAM WTOC
WVVVA KDYL WFBL

7:15 Sylvanians - Orchestra
KMBC KMOX WABC WCAO WCAU
WCOO WDRC WGL WGN WGR
WJAS WKRC WNAC WOKO WXYZ

7:30 Luden's Novelty Orchestra
KDYL KLZ KMBC KMOX KRLLD
WABC WBT WCAO WCAU WCOO
WDSU WFBM WGN WGR WHK
WKBH WKRC WMAL WNAC WNAX
WREO WXYZ WGST

5:30 General Electric Hour
KECA KEX KFYR KGA KJR KOA
KPO KPRC KSD KSL KSTP KTAR
KV00 WAPI WBAP WBBN WCAE
WCSH WDAF WDAY WEAJ WEEB
WEEI WENR WFRB WFI WFLA
WGY WHAS WHO WIBA WIOD
WIS WJAR WJAX WJDX WKY
WMC WOAI WOC WOW WPTF
WRC WRVA WSAI WSB WSMB
WTAG WTAM WTIC WTMJ WWJ
WVNC

6:00 Catholic Hour
KEX KFYR KGA KJR KOA KPO
KPRC KSD KSTP KTAR KV00
WBAP WBBN WCAE WCSH WDAF
WDAY WEAJ WEEB WEEI WENR
WFRB WFLA WGY WHO WIBA
WIOD WJAR WJAX WJDX WKY
WLIT WMC WOAI WOC WOW
WRC WRVA WSAI WSB WSMB
WTAG WTIC WWJ WVNC

6:30 Through the Opera Glass
KPRC WDAF WEAJ WGY WRC
WTIC WVNC

7:15 Jolly Time Revue
KSD WBN WCAE WCSH WDAF
WEAF WFRB WGY WJAR WLS
WRC WSAI WTIC

7:30 Iodent Club of Air
KSD WHEN WCAE WCSH WDAF
WEAF WGY WHO WJAR WLIT
WLS WOC WRC WSAI WTAG WTAM
WTIC WWJ

8:00 Chase & Sanborn Hour
CFRC CKGW KPRC KSD KSTP
KTHS KV00 WBBN WCAE WCSH
WDAF WEAJ WEEB WFAA WFLA
WGY WHAS WHO WIOD WJAR
WJDX WKY WLIT WLS WMC
WOAI WOC WOW WRC WSAI
WSB WSMB WTAG WTAM WTIC
WTMJ WWJ

9:00 Our Government, David Lawrence
KSD KTHS KV00 WBBN WCSH
WEAF WENR WFAA WFRB WFI
WFLA WGY WHO WIOD WIS WJAR
WJDX WOC WOW WRC WSAI
WVNC

9:15 Atwater Kent Hour
KFI KFSD KFYR KGO KGW KHQ
KOA KOMO KPRC KSD KSL KSTP
KTAR WAPI WBBN WCAE WCSH
WDAF WDAY WEAJ WEEB WENR
WFRB WFI WFLA WGY WHAS
WIO WIBA WIOD WIS WJAR
WJAX WKY WOAI WOC WOW
WRC WRVA WSAI WSB WSN
WSMB WTAG WTAM WWJ WVNC
WJDX

10:15 National Oratorio Society
KFSD KGO KGW KOA KOMO
KPRC KSTP KTAR WAPI WBBN
WCAE WCSH WEAJ WEEI WFRB
WFI WGY WHAS WJAR WKY
WOAI WRC WSB WTAG WTAM
WTIC WTMJ

10:45 Seth Parker's Neighbors
KPRC KSTP KYW WHEN WEAJ
WEEB WEEI WHAS WIBA WIS
WJAR WMC WOAI WSB WTMJ
WWJ WVNC

11:15 Ralph Kirbery, Dream Singer
WEAF WFRB WFI WGY WHO WOC
WOW WWJ

11:30 Jesse Crawford, Organ
WDAF WEAJ WENR WFRB WGY
WHO WJAR WOC WRC WWJ

8:00 Enna Jettick Melodies
CFRC CKGW KDKA KFI KFSD
KFYR KGO KGW KHQ KOA KOIL
KOMO KPRC KSL KSTP KTAR
KTHS KV00 KWK KYW WFAL
WBZA WDAY WEEB WFAA WFLA
WGAR WHAM WHAS WIBA WIOD
WIS WJDX WJR WJZ WKY WLW
WMC WOAI WREN WRVA WSB
WSM WSMB WVNC

8:15 Colliers Radio Hour
KDKA KFI KGO KGW KHQ KOA
KOMO KSL KWK KYW WBAL
WBZA WGAR WHAM WJR WJZ
WLW WREN

9:15 Bayuk Stag Party
KDKA KWK KYW WBAL WBZA
WGAR WJR WJZ WLW WREN

9:45 Kellogg Slumber Music
KDKA KWK KYW WBAL WBZA
WHAM WJR WJZ WLW WREN

10:15 Thrillers, Dramatic Program
KDKA KWK WBAL WBZA WENR
WGAR WHAM WJZ WREN

10:45 Land of Wonder and Fear
KDKA KWK WBAL WBZA WENR
WGAR WHAM WJZ WREN

11:00 David Novalis, Violinist
KDKA KFAB KOA KPRC WBAL
WENR WGAR WJR WJZ WKY
WREN WVNC

11:45 South Sea Islanders
KFAB KFYR KPRC KSTP KWK
KWB WKY WGAR WIBA WJZ
WKY WMC WREN WSB

MONDAY

7:45 Waves of Melody
KOIL KWK WBAL WKY WHAM
WJZ WMAQ WREN

8:00 Archer Gibson, Organ
CKGW WBAL WHAM WJR WJZ
WREN

8:30 Death Valley Days, Drama
KDKA KFI KFSD KFYR KGO
KGW KHQ KOA KOMO KSL KSTP
KTAR KWK WBAL WBZA WEEB
WGAR WHAM WIBA WJZ WLS
WREN

9:00 Maytag Orchestra
KDKA KFI KFYR KGO KHQ KOA
KOMO KPRC KSL KSTP KV00
KWK WBAL WBZA WDAY WEEB
WFAA WGAR WHAM WJR WJZ
WKY WLS WMC WOAI WREN
WSM WTMJ

9:30 Musical Dominos
KDKA KWK KYW WBAL WBZA
WGAR WHAM WJR WJZ WLW
WREN

10:00 Musical Express
KDKA KFI KFSD KGO KGW KHQ
KOA KOMO KSL KSTP KTAR
KWK WBAL WBAP WBZA WEEB
WFLA WGAR WHAM WIOD WJAX
WJR WJZ WKY WMAQ WMC
WOAI WREN WRVA WSB WSM
WTMJ

11:00 Slumber Music
CFRC WBAL WIOD WIS WJR WJZ
WRC WVNC

TUESDAY

4:00 U.S. Army Band
KFAB KFYR KOA KPO KSTP
WAPI WBZA WGAR WIBA WJR
WJZ WRC WREN WSM

7:15 Gaytees Orchestra Odette Myrtil
KOIL KWK WBAL WENR WJZ
WLW WREN

7:45 Back of the News
KFSD KFYR KGO KHQ KOA KOMO

MONDAY

8:00 Devils, Drugs and Doctors
 KDYL KPYP KJL KLZ KMBC
 KMOX KOIN KOL KSCJ KTAU
 WABC WADC WBRC WCAO WABC
 WCCO WDRC WDRS WEAN WFBL
 WFBM WGN WGR WGST WHEC
 WHK WIBW WJAS WKRC WLAC
 WMAL WNAC WREB WRR WSPD
 WXYZ KFRG

8:15 Manhattan Serenaders
 KDYL KJFJ KPYP KFRG KGB
 KMOX KOH KOL KRTA KFOR
 WABC WCAO WADC WBRC WCAO
 WCCO WDAE WDOD WDRC
 WFBM WGL WGR WHEC WHP
 WIBW WISN WJAS WLAP WLWB
 WLZB WOKO WORC WSPD WTOG
 WXYZ

8:45 Angelo Patri, Your Child
 KMBC KMOX WABC WADC WCAO
 WCAU WCCO WDRC WEAN WFBL
 WGN WGR WJR WJAS WWRK
 WMAL WNAC WOWO WSPD WXYZ

9:00 Sheaffer Pen, Phil Baker
 CFRB KDYL KJFJ KPYP KFRG
 KGB KLZ KMBC KMOX KOH KOL
 KRTA KFOR WABC WADC WBRC
 WBT WCAO WCCO WDAE WDBJ
 WDOD WDOD WDRC WDSU WEAN
 WFBM WHEC WHP WIBW WISN
 WJAS WLAP WLWB WLZB WMAL
 WNAC WNAX WOKO WORC WOWO
 WQAM WSPD WTOG

9:30 Romance of the Sea, Drama
 CFRB KDYL KPYP KFRG KHJ
 KLZ KMBC KMOX KOIN KOL
 WABC WADC WCAO WCAU WDRC
 WEAN WFBL WGN WGR WHK
 WJAS WKRC WMAL WNAC WOWO
 WSPD WXYZ

10:00 Hopper Variety Show
 KDYL KFH KJFJ KLZ KMBC
 KMOX KRTA WAAB WABC WADC
 WBHM WCAO WCAU WCCO WDRC
 WDSU WFBL WFBM WGST WHEC
 WHK WISN WJAS WKRB WKRC
 WLAP WLZB WMAL WOKO WORC
 WOWO WREB WSPD WXYZ KRLD

10:30 Ernest Hutcheson, Pianist
 CFRB KFH KJFJ KPYP KGB KLZ
 KOH KOL KFOR WABC WADC
 WBCM WBRC WBT WCAO WDAE
 WDBJ WDOD WDOD WDRC WDSU
 WEAN WFBL WHEC WHP WIBW
 WJAS WKRB WLAP WLWB WLZB
 WMAL WNAC WOKO WORC WPG
 WQAM WSPD WXYZ

11:00 The Cauchos, Tito Guizar
 KDYL KFH KJFJ KLZ KMOX
 KOH KOL KFOR WABC WADC
 WBCM WBT WCAO WDAE WDBJ
 WDOD WDRC WFBL WFBM WGR
 WHK WHP WIBW WKRC WLZB
 WMAL WNAC WNAX WOKO WPG
 WQAM WSPD WTOG WXYZ

11:30 Ben Bernie and Orchestra
 KDYL KFH KJFJ KGB KHJ KLRA
 KOH KOL KFOR WABC WADC
 WBCM WBRC WBT WCAO WCCO
 WDAE WDBJ WDOD WDRC WEAN
 WFBL WGL WGR WHEC WHP
 WIBW WISN WJAS WKRC WLAP
 WLWB WLZB WMAL WNAC WNAX
 WOKO WPG WQAM WSPD WTOG
 WXYZ

12:00 Eddie Duchin and Orchestra
 KDYL KJFJ KPYP KMBC KOH
 KOL KFOR WABC WBCM WCCO
 WEAN WFBL WGR WHP WIBW
 WISN WKRC WLWB WNAC WNAX
 WOKO WSPD

8:00 Soconylund Sketches
 WBEN WCSH WEAF WEEI WGY
 WJAR WTAG WTIC

8:30 Voice of Firestone
 CFCE CKGW KPRC KSD KTHS
 KVOO WBEN WCAE WCSH WDAF
 WEAF WFPA WFBR WFLA WGY
 WHAS WHO WIOD WIS WJAR
 WJAX WJDX WKY WLIT WMAQ
 WQAI WOC WOW WRC WRVA
 WSAI WSB WSMB WTAG WTAM
 WTIC WWJ WYNN WZL

9:00 A. & P. Gypsies
 KSD WBEN WCAE WCSH WDAF
 WEAF WEEI WGY WHO WJAR
 WLIT WMAQ WOC WOW WRC
 WSAI WTAG WTAM WTIC WWJ

9:30 Parade of the States
 KFI KFYP KGO KGW KHQ KOA
 KOMO KPRC KSD KSL KSTP
 WCAE WCSH WDAF WEAF WEEI
 WFNR WFPA WGY WHAS WHO
 WJAR WJAX WKY WLIT WMC
 WQAI WOC WOW WRC WSAI
 WSB WSM WTAG WTAM WTIC
 WTMJ WWJ WYNN

10:00 True Story, Mary and Bob
 KSD WBEN WCAE WCSH WEAF
 WEEI WENR WFBR WGY WHO
 WJAR WLIT WOC WRC WSAI
 WTAM WWJ WTAG

10:45 Phantom Caravan
 CFCE WBEN WCAE WCSH WEAF
 WEEI WENR WGY WHO WJAR
 WOC WRC WTAG WWJ

TUESDAY

7:00 Mid-Week Federation Hymn Sing
 KEX KGA KJR KOA KSTP KTR
 WBEN WCAE WEAF WFI WJDX
 WSAI WSB WSM WTAG WTIC

8:00 Blackstone, Sanderson-Crumit
 KSD KSTP KYW WBEN WCAE
 WCSH WDAF WEAF WEEI WEEI
 WFI WGY WHO WJAR WOC WOW
 WRC WSAI WTAG WTAM WTIC
 WWJ

9:00 McKesson Musical Magazine
 KFI KFSD KFYP KGO KGW KHQ
 KOA KOMO KPRC KSD KSL KTR
 KTHS KVOO WBEN WCAE WCSH
 WDAF WDAY WEAF WEEI WEEI
 WFI WFLA WGY WHAS WHO WOD
 WIS WJAR WJAX WJDX WKY
 WLS WMC WQAI WOC WOW WRC
 WRVA WSAI WSB WSM WSMB
 WTAG WTAM WTIC WTMJ WWJ

9:30 The Fuller Man
 KFCB KGO KGW KHQ KOA KOMO
 KSD KSL KSTP KYW WBAE WBEN
 WCAE WCSH WDAF WEAF WEEI
 WEEI WFI WGY WHO WJAR WY
 WQAI WOC WOW WRC WSAI
 WSB WTAG WTAM WTIC WTMJ
 WWJ

11:15 Jesse Crawford, Organ
 WEAF WEEI WFI WIOD WJAR
 WRC WTIC WYNN

11:30 Jack Denny and Orchestra
 CFCE KPRC KSD KTHS WCAE
 WEAF WFI WJAR WJAX WOW
 WRC WTAM WTIC WWJ

12:05 Rudy Vallee and Orchestra
 KFYP KSD KTHS WBEN WCAE
 WDAF WEAF WHO WIRA WOC
 WOW WRC WSB WSM WTIC WTMJ

12:30 Waldori-Astoria Dance Orch.
 KGO KPRC KSD KSTP WCAE
 WEAF WENR WHO WOC WRC
 WSB WSM WTIC

KSL WKY WDAY WEBC WFLA
 WIOD WIS WJZ WRC WREN

8:00 Armstrong Quakers
 KDKA KOIL KWK KBAL WBZA
 WHAM WJR WJZ WLS WLW WREN

8:30 Heel Hugger Harmonies
 KFI KFSD KGW KHQ KOA KOIL
 KOMO KPO KSL KTR ARHAM
 WJZ WLS WREN

9:00 Household Finance Program
 KDKA KWK KBAL WBZA WHAM
 WJZ WMAQ WREN

9:30 Great Personalities
 KDKA KOIL KWK KBAL WBZA
 WENR WGAR WHAM WJR WJZ
 WLW WREN WRVA

10:45 Paris Night Life
 KDKA KYW WBAL WBZA WKY
 WGAR WHAM WJZ WREN

11:45 Dream Pictures, Archer Gibson
 KFAB WBAL WENR WGAR WJR
 WJZ WREN

WEDNESDAY

7:45 Believe It or Not Ripley
 KDKA WBAL WBZA WHAM WIS
 WJZ WPTF WRVA WYNN

8:00 College Memories Male Quartet
 KFI KFSD KFYP KGO KGW KHQ
 KOA KOIL KOMO KPRC KSL KSTP
 KTR KVOO KWK KYW WBAL
 WKY WDAY WEBC WFPA WGAR
 WHAM WHAS WIBA WJDX WJR
 WJZ WMC WQAI WREN WWSB
 WSM WSMB WTMJ

8:15 Guy Robertson Baritone
 KFYP KOA KOIL KPRC KSL KSTP
 KVOO KWK KYW WBAL WBAE
 WBZA WKY WDAY WEBC WFPA
 WFLA WGAR WHAM WHAS WIBA
 WIOD WJAX WJDX WJR WJZ
 WKY WMC WQAI WREN WRVA
 WSB WSM WSMB WTMJ WYNN

8:30 Jack Frost Melody Moments
 KDKA WBAL WGAR WHAM WJR
 WJZ WLS WLW

9:00 Adventures of Sherlock Holmes
 KDKA KWK KBAL WBZA WGAR
 WHAM WJR WJZ WLW WMAQ
 WREN

9:30 Dutch Masters Program
 KDKA KWK KBAL WBZA WENR
 WGAR WHAM WJR WJZ WLW
 WREN

10:45 Hollywood Nights
 KDKA KWK KYW WBAL WBZA
 WGAR WHAM WJR WJZ WREN

11:00 Slumber Music
 WBAL WIOD WJR WJZ WYNN
 12:15 Larry Fink and Orchestra
 KFYP KOA KSTP KTHS WBAL
 WENR WGAR WJR WJZ WSB WSM

8:30 Ernie Holst's Orchestra
 KOA WENR WGAR WJR WJZ
 WREN WSB WSM

THURSDAY

4:14 U.S. Navy Band
 WHAM WJR WJZ WRC WREN

5:00 Coffee Matinee
 KDKA KFAB KWK KYW WBAL
 WBZA WGAR WHAM WJZ WLW
 WREN

7:45 Famous Fallacies of Business
 KFI KFSD KGO KGW KHQ KOA
 KOMO KTR WBAL WKY WEBC
 WFLA WGAR WIS WJAX WJZ
 WLS WRC WREN WRVA WYNN

8:00 Dixie Spiritual Singers
 KDKA KOIL KWK KBAL WBZA
 WKY WHAM WJZ WLS WREN
 WRVA

12:30 Ann Leaf at Organ
 KDYL KFJF KPFP KLZ KMBC
 KMOX KOH KOI KVOR WABC
 WBCM WCOO WEA WFBW WGR
 WIBW WISN WLWB WNAC WNAX
 WOKO WSPD

MONDAY

6:45 Reis and Dunn
 KFJF KFJF KLZ KMBC KOH KVOR
 WAAB WABC WACO WBIC WBT
 WDAE WDBJ WDBO WDOD WDRC
 WFBM WGL WHP WISN WKBW
 WKRC WLAP WLWB WLWB WMAL
 WMT WNAC WOKO WORC WQAM
 WSPD WTOC WYVA

8:45 Pompeian Makeup Box
 CFRB KMBC KMOX WABC WADC
 WCAO WCAU WDRC WEAN WFBL
 WGN WHK WJAS WKBW WKRC
 WMAL WNAC WOVO WSPD WXYZ

9:00 Vapex----- Mills Bros.
 KMBC KMOX WABC WADC WCAO
 WCAU WDRC WEAN WFBL WGN
 WHK WJAS WKBW WKRC WMAL
 WNAC WOKO WOVO WSPD WXYZ

9:15 Metropolitan, Round Towners
 CFRB KFJF KPFP KMBC
 KMOX KOH KVOR WABC WBCM
 WBRC WBT WCAO WDAE WDBJ
 WDBO WDOD WDRC WDSU WEAN
 WHEC WISN WJAS WKBW WLAP
 WLWB WLWB WMT WNAC WNAX
 WORC WOVO WFG WQAM WTOC
 WDAE WTAQ WXYZ

9:30 Bourjios, Evening in Paris
 KDYL KFJF KPFP KFCR KHJ
 KLZ KMBC KMOX KOIN KOL
 KRLD WABC WADC WBT WCAO
 WCOO WDSU WEAN WFBL WGN
 WGST WHEC WHK WJAS WKBW
 WKRC WMAL WNAC WOVO WSPD
 WXYZ WCAU

10:00 Burns Panatella, Guy Lombardo
 KDYL KFJF KPFP KFCR KHJ KLZ
 KMBC KMOX KOIN KOL KRLD
 KTRH KTSa WABC WADC WBBM
 WCAO WCAU WCOO WDRC WEAN
 WFBL WFBM WHK WJAS WKBW
 WKRC WMAL WNAC WOVO WSPD
 WXYZ

11:30 Madruguera's Billmore Orch.
 WAAB WABC WBRC WBT WCAO
 WDAE WDBJ WDBO WDOD WDRC
 WDSU WEAN WLWB WMAL WORC
 WFG WQAM WTOC

11:45 Geo. Olson and Orchestra
 WAAB WABC WBRC WBT WCAO
 WDAE WDBJ WDBO WDOD WDRC
 WDSU WEAN WLWB WMAL WORC
 WFG WQAM WTOC

TUESDAY

6:45 Pertussin, Frank Stretz Orch.
 KMBC KRLD WAAB WABC WBBM
 WCAU WDRC WEAN WHK WKBW
 WMAL WXYZ

7:30 Kaltenborn Edits News
 KMBC KMOX WABC WADC WBBM
 WCAU WCAU WCOO WDRC WEAN
 WFBL WFBM WGR WHK WJAS
 WKRC WLWB WNAC WSPD WXYZ

8:45 Gerardine, Walter Winchell
 KMBC KMOX WABC WADC WCAO
 WCAU WDRC WEAN WFBL WGN
 WGR WHK WJAS WKRC WMAL
 WNAC WOVO WSPD WXYZ

9:00 Ben Bernie's Blue Ribbon Orch.
 KDYL KFJF KPFP KFCR KHJ
 KLZ KMBC KOIN KOL KTRH
 KTSa WABC WADC WBRC WBT
 WCAO WCAU WCOO WDRC WDSU
 WEAN WFBL WGN WHK WJAS

WEDNESDAY

8:00 Snoop and Peep, Sketch
 CFCE CKGW WBEN WCAE WCSH
 WFAF WGY WJO WJOD WJAR
 WJS WOC WSAI WVNC

8:15 Ohlman and Arden, Piano Duo
 KSD WBEN WCAE WCSH WFAF
 WEEI WGY WJO WJAR WLS WOC
 WOW WRC WSAI WTAG WWJ

9:00 Sousa and his Band
 KFJR KSD KYW WBEN WCAE
 WCSH WDAY WFAF WFCB WEEI
 WFBF WFLA WGY WHAS WJOD
 WJS WJAR WLIT WOW WRC WRVA
 WSMB WTAG WTAM WTIC WTMJ
 WWJ WVNC

9:00 Halsey-Stewart Program
 CKGW KFI KGO KGW KHQ KOA
 KOMO KPRC KSD KSL KSTP
 KVOO KYW WBEN WCAE WCSH
 WFAF WEEI WFBF WGY WHAS
 WHO WJAR WJAX WLIT WMC
 WOAI WOC WOW WRC WRVA
 WSAI WSB WSM WSMB WTAG
 WTAM WTMJ WWJ

9:30 Mobiloil Concert
 KFI KFJR KGO KGW KHQ KOA
 KOMO KPRC KSD KSL KSTP
 KVAR KVOO WBEN WCAE WCSH
 WDAF WDAY WFAF WFCB WEEI
 WFBF WFLA WGY WHAS WHO
 WJOD WJS WJAR WJAX WJDX
 WLIT WMAQ WMC WOAI WOC
 WOW WPTF WRC WRVA WSAI
 WSB WSM WSMB WTAG WTAM
 WTIC WTMJ WWJ WVNC

10:30 Coca Cola Program
 CFCE KFI KFSD KGO KGW KHQ
 KOA KOMO KPRC KSD KSL KSTP
 KTRH KTHS WAPI WRAP WBEN
 WCAE WCSH WDAF WFAF WFCB
 WEEI WENR WFBF WFLA WGY
 WHAS WHO WJOD WJS WJAR
 WJAX WJDX WKY WLIT WMC
 WOC WOW WRC WRVA WSAI
 WSB WSM WSMB WSUN WTAG
 WTAM WTIC WTMJ WWJ WVNC

11:00 Radio Digest, Nellie Revell
 KSD WCSH WFAF WGY WJAR
 WOW WRC WTAM WWJ

11:30 Vincent Lopez and Orchestra
 KSD WAPI WBEN WFCL WCKY
 WEEI WGY WJAR WOW WRC
 WSB WWJ

12:30 Paul Whiteman's Orchestra
 KYW WFAF WHO WOC WRC

THURSDAY

7:00 Vermont Lumber Jacks
 WBEN WCAE WCSH WFAF WEEI
 WENR WFBF WFI WGY WJAR
 WSAI WTAG WTIC WWJ

8:00 Fleischmann, Rudy Vallee
 CFCE CKGW KFCa KGO KGW
 KHQ KOA KOMO KPRC KSD KSL
 KSTP KTRH WAPI WRAP WBEN
 WCAE WCSH WDAF WFAF WFCB
 WEEI WFBF WFI WFLA WGY
 WHAS WHO WJOD WJAR WJAX
 WJDX WKY WMAQ WMC WOAI
 WOC WOW WRC WRVA WSAI
 WSB WSM WSMB WTAG WTAM
 WTIC WTMJ WWJ

9:00 Arco Dramatic Musicale
 CKGW KFI KGO KHQ KOA KOMO
 KSD KSL KSTP KYW WAPI WRAP
 WBEN WCAE WCSH WDAF WFAF
 WFCB WEEI WFBF WFI WGY
 WHAS WHO WJOD WJAR WJAX
 WJDX WKY WMC WOAI WOC
 WOW WRC WRVA WSAI WSB WSM
 WSMB WTAG WTAM WTIC WTMJ

National, Blue-----WJZ

8:15 Rin Tin Tin Thriller
 KDKA KOLL KWK WBZA WGAR
 WHAM WJZ WLS WLW WREN

8:30 Pickard Family
 WBZA WJR WJZ WLS WLW WREN

9:00 Blackstone, Sanderson-Crumit
 KDKA WBAL WBZA WCKY WHAM
 WJZ

9:30 Maxwell House Ensemble
 KDKA KECA KFSD KGO KGW
 KHQ KOA KOMO KPRC KSL KSTP
 KTRH KWK KYW WAPI WBAL
 WBAP WBZA WFCB WFLA WHAM
 WHAS WJOD WJAX WJDX WJR
 WJZ WKY WLW WMC WOAI WREN
 WRVA WSB WSM WSMB WTMJ

10:00 A. & P. Dance Gypsies
 KDKA KWK WBAL WBZA WGAR
 WHAM WJR WJZ WLW WMAQ
 WREN

10:45 Paris Night Life
 KDKA KWK WBAL WBZA WCKY
 WGAR WHAM WJZ WREN

12:15 Earl Hines and Orchestra
 KFJR KOA KTHS WENR WGAR
 WJR WJZ WREN WSB WSM

12:30 Larry Funk and Orchestra
 WGAR WJR WJZ WREN

FRIDAY

11:00 Walter Damrosch Hour
 CKGW KDKA KFAB KFJR KOA
 KPRC KSD KSL KSTP KTHS KVOO
 KWK KYW WAPI WBAL WBAP
 WBZA WCAE WCSH WDAF WDAY
 WFAF WFCB WEEI WENR WFAA
 WFBF WFLA WGAR WHAM WHAS
 WHO WJAX WJOD WIS WJAR
 WJAX WJDX WJR WJZ WKY
 WLIT WMC WOAI WOC WPTF
 WRC WREN WRVA WSAI WSB
 WSM WSMB WTAG WTAM WTIC
 WTMJ WWJ WVNC

4:15 Radio Guild
 CKGW KFAB KFSD KGO KGW
 KOA KOMO KPRC KSL KSTP
 KVOO WAPI WBAL WDAY WFCB
 WGAR WHAM WHAS WJAX WIS
 WJAX WJDX WJR WJZ WKY
 WMAQ WMC WOAI WPTF WRC
 WREN WRVA WSB WSM WSMB

7:45 Believe It or Not Ripley
 KDKA WBAL WBZA WIS WJZ
 WPTF WVNC

8:00 Nestle's Program
 KDKA KOLL KWK WBAL WBZA
 WCKY WGAR WHAM WJR WJZ
 WLS WREN

8:30 Smith Bros., Trade and Mark
 WBAL WGAR WJZ WLS WLW

9:00 Intervenor Pair
 KDKA KFI KFSD KGO KGW KHQ
 KOA KOMO KPRC KSL KSTP
 KTRH KWK KYW WAPI WBAL
 WBZA WCKY WFCB WFAA WGAR
 WHAM WHAS WJOD WJAX WJR
 WJZ WKY WMC WOAI WREN
 WRVA WSB WSM WSMB WTMJ

9:30 Armour Program
 KDKA KFI KGO KGW KHQ KOA
 KOIL KOMO KPRC KSL KSTP
 KWK KYW WAPI WBAL WBZA
 WFCB WGAR WHAM WHAS WJOD
 WJAX WJDX WJR WJZ WKY
 WLW WMC WOAI WREN WRVA
 WSB WSM WSMB WTMJ

10:00 Paul Whiteman's Paint Men
 KDKA KFI KFSD KFJR KGO KGW
 KHQ KOA KOIL KOMO KPRC
 KSL KSTP KTRH KVAR KVK
 WBAL WBAP WBZA WCKY WDAY
 WFCB WENR WFLA WGAR WHAM

Columbia ----- WABC

WKBN WKBW WKRC WLAC WMAL
WNAC WOWO WRR WSPD WXYZ
9:30 **Romances of Sea, Drama**
CFRB KMBC KMOX WAHC WADC
WCAO WCAU WDRC WEAN WFBL
WGN WHK WJAS WKBW WKRC
WMAL WNAC WOWO WXYZ

10:00 Minneapolis Symphony Orch.
CFRB KDYL KFJF KFJF KFPY KGB
KELI KLZ KMBC KOH KOI KRLD
KYOR WAAB WABC WADC WBCM
WBRC WBT WCAO WDBJ WDOB
WDOB WDOB WDRC WDSU WEAN
WFBM WHEC WHP WISN WJAS
WKBW WKRC WLAC WLAP WLWB
WLWB WMAL WMT WNAX WOKO
WORC WOWO WPG WQAM WSPD
WTOC WXYZ

11:45 Geo. Olsen and Orchestra
CFRB KDYL KFH KFJF KFPY
KPRC KLZ KMBC KOH KOI KYOR
WAAB WABC WADC WBCM WBRC
WBT WCAO WDBJ WDOB WDOB
WDOB WDSU WFBL WGL WHP
WIBW WISN WKBW WLAC WLAP
WLWB WLWB WMAL WMT WNAX
WOKO WORC WPG WQAM WSPD
WTOC

12:00 Romaneli and Orchestra
CFRB KFPY KPRC KLZ KMBC
KOH KYOR WABC WBCM WCCO
WDOB WEAN WFBL WGL WHP
WIBW WISN WKBW WKRC WLWB
WMT WNAC WNAX WOKO WPG
WSPD

WEDNESDAY

8:45 Modern Male Chorus
KFPY KGB KHJ KLZ KMBC KMOX
KOH KYOR WABC WBRC WBT
WDRS WDSU WEAN WGR WHEC
WHP WLAC WLWB WMT WNAC
9:00 **Gold Medal Fast Freight**
KFH KMBC KMOX KSCJ WABC
WADC WCAO WCCO WDBJ WDRS
WEAN WFBL WFBM WGN WHK
WHP WJAS WKBW WKRC WMAL
WMT WNAC WOKO WOWO WSPD
WXYZ WCAU

9:30 Eno Crime Club
CFRB KMBC KMOX WABC WADC
WCAO WCAU WDRC WEAN WFBL
WGN WHK WJAS WKBW WKRC
WMAL WNAC WOWO WSPD WXYZ
10:00 **Vitality Personalities**
KDYL KFJF KFPY KPRC KHJ
KLRA KLZ KMBC KMOX KOIN
KOL KRLD KTRH KTSA WABC
WADC WBBM WBRC WBT WCAO
WCAU WCCO WDRC WDSU WEAN
WFBL WFBM WGST WHK WISN
WJAS WKBW WKRC WLAC WLAP
WMAL WNAC WOKO WOWO WREC
WSPD WXYZ WCAH

10:15 Weed Tire Chain Orch.
KDYL KFJF KLZ KMBC KMOX
KRLD WAAB WABC WADC WCAO
WCAU WCCO WDRC WFBL WGN
WHK WJAS WKBW WKRC WLWB
WMAL WOWO WSPD WXYZ
10:30 **Howard Barlow Orchestra**
CFRB KPRC KGB KLZ KMBC
KOH KTSA WABC WBRC WBT
WCAO WDOB WDRC WDSU WEAN
WHP WTBW WKBW WLAP WLWB
WMAL WMT WPG WTAQ

10:45 Columbia Concerts Program
KGB KYOR WABC WBRC WBT
WDOB WDRC WDSU WEAN WHEC
WHP WKBW WLAC WLWB WMAL
WPG

National, Red ----- WEAF

9:30 Adventures of Sherlock Holmes
CFPC CKGW KSD WBEN WCSH
WDAF WEAF WEEL WENR WFI
WGY WHO WJAR WOC WOW WRC
WSAI WTAG WTAM WTIC WWJ
11:30 **Jesse Crawford, Organ**
KSD WEAF WFI WHO WJAR WOC
WOW WRC WTIC WWJ
11:45 **Cab Calloway and Orchestra**
KSD WCKY WEAF WFI WGY WHO
WJAR WOC WRC WTIC WWJ

FRIDAY

8:00 Cities Service Program
CKGW KECA KGO KGW KHQ
KOA KOMO KPRC KSD KSL KSTP
KTHS KYW WBEN WCAE WCSH
WDAF WEAF WEBC WEEL WFAA
WGY WHO WJAR WKY WLIT
WOAI WOC WOW WRC WSAI
WTAG WTAM WTIC WTMJ WWJ
9:00 **Clicquot Club, Reser's Orch.**
KSD WBEN WCAE WCSH WDAF
WEAF WEEL WGY WHO WJAR
WLIT WLS WOC WOW WRC WSAI
WTAG WTIC WWJ
9:30 **Pond's, Leo Reisman Orch.**
KSD WBEN WCAE WCSH WDAF
WEAF WBNR WFBR WGY WJAR
WLIT WOC WOW WRC WSAI
WTAG WTAM

10:00 NBC Artists' Service Program
CFPC WBEN WCAE WCSH WEAF
WEEL WFBR WGY WJAR WLIT
WMAQ WOW WRC WSAI WTAG
WTAM WWJ
10:30 **RKO Theater of Air**
KFI KFSJ KFYR KGO KGW KHQ
KOA KOMO KSD KSL KTRN WBEN
WCAE WCSH WDAY WEAF WEEL
WENR WFBR WFLA WGY WHAS
WIBA WIOD WJAR WJAX WJDX
WKY WLIT WMC WOAI WOC WOW
WRC WRVA WSAI WSB WSBM
WTAG WTAM WTIC WTMJ WWJ
11:15 **Vincent Lopez and Orchestra**
KSD WFLF WEAF WEEL WGY
WIOD WJAR WOW WRC WWJ
WNNC
12:05 **Coon-Sanders' Orchestra**
KFYR KSD KSTP WBAF WEAF
WOW WRC WTMJ

SATURDAY

7:15 Laws That Safeguard Society
KECA KEX KFSJ KFYR KGA
KJR KOA KPO KPRC KTRN KTHS
WAPI WBEN WCAE WCSH WDAY
WEAF WEBC WENR WFI WGY
WHO WJAR WJDX WOC WOW
WSAI WTAG WTIC
8:00 **Civic Concerts Program**
CKGW KSD WBEN WCAE WCSH
WDAF WEAF WFBR WFI WHO
WIOD WIS WJAR WJAX WMAQ
WOC WOW WRC WTIC WWJ WNNC
8:30 **Advisory Council on Radio**
KFSJ KFYR KGO KGW KHQ
KOA KOMO KPRC KSD KSL KSTP
KTRN KYW WBEN WCAE WCSH
WDAF WDAY WEAF WEBC WEEL
WFBR WFI WFLA WGY WHAS WHO
WIBA WIOD WIS WJAR WJAX
WJDX WOC WOW WRC WRVA
WSAI WSB WSM WSBM WTAG
WTAM WTIC WTMJ WWJ WNNC
9:00 **Arthur Pryor and Orchestra**
KFI KFSJ KFYR KGO KGW KHQ
KOA KOMO KPRC KSD KSL KSTP
KTRN KYW WAPI WBAF WBEN
WCAE WCSH WDAF WDAY WEAF

(continued next column)

National, Blue ----- WJZ

WHAS WIOD WJAX WJDX WJR
WJZ WKY WMC WOAI WREN
WRVA WSB WSM WSMB WTMJ
10:45 **Waves of Melody**
KDKA KWK KYW WBAL WBZA
WCKY WGAR WHAM WJR WJZ
WREN
11:30 **Jack Denny and Orchestra**
CFPC KFYR KOA KPRC KSTP
WBAL WEBC WENR WIBA WIS
WJR WJZ WRC WREN

SATURDAY

5:00 Colorado Cowboys
CKGW KDKA KEX KFSJ KGO
KJR KOA KPO WBAL WENR WGAR
WHAM WHAS WJZ WREN WSM

7:30 Sonata Recital
CFPC KDKA KECA KFSJ KPO
WAPI WGAR WREN WSB WSM
7:45 **Hollywood Nights**
KDKA KOIL KWK WBAL WCKY
WGAR WHAM WJR WJZ WMAQ
WREN WBZA

8:00 Danger Fighters Drama
KDKA KFI KFSJ KFYR KGO
KGW KHQ KOA KOIL KOMO KPRC
KSL KSTP KTRN KWK WAPI
WDAY WEBC WHAM WHAS WIBA
WJDX WJZ WLS WMC WOAI WREN
WSD WSM WSMB WTMJ
8:30 **Dance with Countess D'Orsay**
CFPC CKGW KDKA KWK WBAL
WBZA WGAR WHAM WJR WJZ
WLW WMAQ WREN

9:00 Chicago Civic Opera
CFPC CKGW KWK WBAL WBZA
WCKY WGAR WHAM WJZ WLS
WREN

9:30 The First Nighter Drama
KDKA KFI KFSJ KFYR KGO
KGW KHQ KOA KOIL KOMO KSL
KSTP KTRN KWK KYW WBAL
WBZA WDAY WEBC WGAR WHAM
WJR WJZ WLW WREN WTMJ

10:15 Cuckoo Burlesque Skit
CFPC CKGW KWK WBZA WGAR
WHAM WJR WJZ WMAQ WREN
10:45 **Twenty Fingers of Harmony**
CFPC KDKA WBAL WHAM WJR
WJZ WREN

12:15 Paul Whiteman and Orchestra
KYW WGAR WJR WJZ WREN

National, Red ----- WEAF

WEBC WEEL 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 WNNC
9:30 **Club Valspar, Aileen Clark**
CFPC CKGW KSD WBEN WCAE
WCSH WDAF WEAF WEEL WFBR
WFI WGY WHO WJAR WMAQ
WOC WOW WRC WSAI WTAG
WTAM WTIC WWJ
11:30 **Rudy Vallee and Orchestra**
KEX KFYR KGA KJR KOA KPO
KPRC KSD WBEN WCKY WDAY
WEAF WFI WHAS WHO WJAR
WMC WOC WRC WTIC WWJ
12:00 **Ralph Kirbyer, Dream Singer**
KFYR KGA KJR KOA KPO KPRC
KSD WBEN WEAF WGY WIBA
WRC WSB WTIC WWJ

12:05 Coon-Sanders Orchestra
KFYR KGA KJR KOA KPO KPRC
KSD WBEN WEAF WGY WIBA
WOW WRC WSB WTAM WTIC
WWJ

THURSDAY

6:45 Pertussin, Frank Stetz Orch.
KMBC KRLD WAAB WABC WBBM
WCAU WDRC WGST WJAS WKBW
WXYZ

7:30 Kaltenborn Edits News
KMBC KMOX WABC WADC WBBM
WCAO WCAU WCCO WDRC WEAN
WFBL WFBM WGR WHK WJAS
WKRC WLBW WNAC WSPD WXYZ

8:45 Angelo Patri, Your Child
KMBC KMOX WABC WADC WCAO
WCCO WDRC WEAN WFBL WGN
WGR WHK WJAS WKRC WNAC
WOWO WSPD WXYZ WCAU WMAL

9:00 Vapex, Mills Bros.
KMBC KMOX WABC WADC WCAO
WCAU WDRC WEAN WFBL WGN
WHK WHP WJAS WKBW WKRC
WMAL WNAC WOWO WSPD WXYZ

9:00 Snowdrift Southern Melodies
KFJF KFRH KTSB WBG WBRG
WBT WDAE WDBJ WDDB WDDO
WDSU WGST WLAC WNOX WQAM
WREC WRR WTCC WJAR

9:30 Love Story Hour
KMBC KMOX WABC WADC WCAO
WCAU WDRC WEAN WFBL WGN
WHK WJAS WKBW WKRC WMAL
WNAC WOWO WSPD WXYZ.

10:00 Schaffner-Marx Trumpeters
KFJF KLZ KMBC KMOX KRLD
WAAB WABC WADC WBBM WCAO
WCAU WCCO WDRC WDSU WEAN
WFBL WFBM WGST WHK WJAS
WKRC WLAP WMAL WOWO WSPD
WXYZ

10:30 Grand Opera Miniatures
KDYL KFPY KGB KHJ KLZ KOH
WAAB WABC WBT WDRC WEAN
WHP WLBZ WTAQ

FRIDAY

8:30 March of Time, Drama
KDYL KFPY KFCR KHJ KLZ
KMBC KMOX KOIN KOL WABC
WADC WBT WCAO WCAU WCCO
WDRC WDSU WEAN WFBL WGN
WGR WHK WHP WJAS WKRC
WLAC WMAL WNAC WOWO WSPD
WXYZ

9:00 Radio Reproductions
KMBC KMOX WABC WCAO WCAU
WDRC WEAN WFBL WGN WHK
WJAS WKBW WKRC WMAL WNAC
WXYZ

9:15 Liberty Magazine Hour
KMBC KMOX WABC WADC WCAO
WCAU WDRC WEAN WFBL WGN
WHK WJAS WKBW WKRC WMAL
WNAC WOWO WSPD WXYZ

9:45 Friendly Five Footnotes
KFJF KLZ KMBC KMOX KRLD
WABC WBRG WBT WCAO WCAU
WCCO WDSU WEAN WFBL WGN
WHK WJAS WKBW WKRC WLAC
WMAL WMT WNAC WNOX WREC
WXYZ

10:00 Pillsbury Pageant
KFJF KMBC KMOX KRLD WABC
WADC WBBM WBT WCAO WCAU
WCCO WDBJ WDRC WEAN WFBL
WGST WHK WJAS WKBW WKRC
WMAL WNAC WOKO WORC WOWO
WREC WSPD WTAR WXYZ

10:30 Round Towners, Irene Beasley
KFCR KGB KOH WABC WADC
WBT WHEC WHP WIBW WKBW
WLBZ

10:45 Tito Guizar, Spanish Tenor
KGB WABC WADC WBT WHP
WKBW WLBZ WMAL WOKO

12:00 Ben Bernie and Orchestra
KFPY KHJ KOH WABC WEAN
WHP WIBW WKBW WNAC WOKO
WPG

SATURDAY

7:00 Frederick William Wile
KFPY KFCR KGB KHJ KOH WABC
WADC WBT WEAN WHEC WHP
WIBW WLBZ WMAL WNAC WOKO

7:30 Reis and Dunn
KFPY KFCR KGB KHJ KOH WABC
WADC WBT WHEC WHP WLBZ
WNAC WOKO

9:00 Carborundum, Indian Legend
KMOX WAAB WABC WCAU WGN
WHK WKBW WXYZ

9:30 Smith Bros., Shilket Orch.
KFH KFJF KLZ KMBC KMOX
WAAB WABC WADC WCAO WCAU
WCCO WDRC WEAN WGN WGST
WHEC WHK WHP WJAS WKBW
WLAP WLBZ WMT WOWO WSPD
WXYZ

9:45 Four Clubmen, Irene Beasley
KGB KOH WABC WADC WBT
WEAN WHEC WHP WIBW WKBW
WLBZ WMAL WPG

10:00 National Radio Forum
KFPY KFCR KGB KHJ KOH WABC
WADC WBT WEAN WHEC WHP
WIBW WKBW WLBZ WMAL WNAC
WOKO WPG

10:15 Hank Simmons Showboat
KFPY KFCR KGB KHJ KOH WABC
WADC WBT WEAN WHEC WHP
WIBW WKBW WLBZ WMAL WNAC
WOKO WPG

11:45 Geo. Olsen and Orchestra
KFPY KOH WABC WADC WBT
WHP WIBW WKBW WMAL

12:00 Guy Lombardo and Orchestra
KFPY KGB KOH WABC WEAN
WHEC WHP WIBW WKBW WNAC
WOKO WPG

The Editor Listens In

The Mills Brothers: Novel and easy to listen to. Wonderful harmony and interesting orchestral imitations.

Turn the Dial

Swift, Stebbins Boys: Just another program. Much ado about nothing.

Turn the Dial

The Goldbergs: One of the best dialog acts on the air. Vivid pictures of the life of a Jewish family as good as anything Fannie Hurst or Montague Glass ever wrote.

Turn the Dial

Kate Smith: Bless her heart. Just the voice of her helps the cars of the day to fold their tents.

Turn the Dial

Cremo, Bing Crosby: Getting awful tired of those twenty words, no more, no less.

Turn the Dial

Carveth Wells: Better than the Geographic Magazine.

Turn the Dial

Moonshine and Honeysuckle: Another good one. Thrilling dramas from the lives of mountaineers. Fueds and shootin' and real he-men.

Turn the Dial

Wonder Program: We wonder how they get away with it.

Turn the Dial

Walter Damrosch Hour: The kids of today are mighty lucky to get this for a lesson.

Turn the Dial

Adventures of Barbara Wayne: "Yes and no, mostly no."

Turn the Dial

The Three Bakers: Leads the world in two things: tries the hardest to be funny and fails the most.

Turn the Dial

INDEX BY FREQUENCIES AND DIAL NUMBERS

NOTICE OF COPYRIGHT

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

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. N, NBC chain. C, Columbia chain. 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.

540 kilocycles 555.6 meters

CKX † 500 --- Brandon, Manitoba

[] [] []
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 2N St. Louis, Mo.
WGR * 1000 C Buffalo, N. Y.
WKRC † 1000 C Cincinnati, Ohio

[] [] []
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 1N Philadelphia, Pa.
WIBO * 1000 3+ Chicago, Ill.
WLIT † 500 1N Philadelphia, Pa.
WNOX * 1000 X+C Knoxville, Tenn.
WPCC * 500 3S Chicago, Ill.
WQAM * 1000 C Miami, Fla.

[] [] []
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
WNAC -- 250 2a Syracuse, N. Y.
WNCA * 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.

[] [] []
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

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

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

INDEX BY FREQUENCIES AND DIAL NUMBERS

590 kilocycles 508.2 meters

CMW -- 1400 588
 KHO -- 1000 +N
 WCAJ * 500 I
 WEBE † 1000 N
 WKZO * 1000 D
 WOW * 1000 IN

Havana, Cuba
 Spokane, Wash.
 Lincoln, Nebr.
 Boston, Mass.
 Kalamazoo, Mich.
 Omaha, Nebr.

Columbus Commercial & Radio Co.
 Louis Wasmer, Inc.
 Nebraska Wesleyan University
 Edison Elec. Illuminating Co.
 WKZO, Inc.
 Woodmen of the World

KCY.S.
 670
 MTRS.
 447.5
 DIAL

600 kilocycles 499.7 meters

CNRO † 500 --
 KFSD * 500 +N
 WCAO † 250 2+
 WCAO * 250 C
 WICC * 250 2+
 WMT * 500 C
 WREC * 500 +C

Ottawa, Ont.
 San Diego, Cal.
 Storrs, Conn.
 Baltimore, Md.
 Bridgeport, Conn.
 Waterloo, Iowa
 Memphis, Tenn.

Canadian National Railways
 Airfan Radio Corp.
 Conn. Agricultural College
 Monumental Radio, Inc.
 Bridgeport Broadcasting Station, Inc.
 Waterloo Broadcasting Co.
 WREC, Inc.

610 kilocycles 491.5 meters

KFRC * 1000 C
 WDAF * 1000 N
 WFAW * 500 Ca
 WIP * 500 Ca
 WJAY † 500 D

San Francisco, Cal.
 Kansas City, Mo.
 Philadelphia, Pa.
 Philadelphia, Pa.
 Cleveland, Ohio

Don Lee, Inc.
 Kansas City Star Co.
 Keystone Broadcasting Co., Inc.
 Gimbel Bros. Co.
 Cleveland Radio Broadcasting Corp.

620 kilocycles 483.6 meters

CMCJ -- 250 --
 KGW * 1000 +N
 KTAR * 500 +N
 KZRM -- 50000 618.5
 WFLA * 1000 +Na
 WLBS † 500 C
 WSUN * 1000 +Na
 WTMJ * 1000 +N

Havana, Cuba
 Portland, Ore.
 Phoenix, Arizona
 Manila, P. I.
 Clearwater, Fla.
 Bangor, Maine
 St. Petersburg, Fla.
 Milwaukee, Wis.

Rafael Rodriguez
 Oregonian Publishing Co.
 KTAR Broadcasting Co.
 Radio Corp. of the Philippines
 Chamber of Commerce
 Maine Broadcasting Co., Inc.
 Chamber of Commerce
 Milwaukee Journal

630 kilocycles 475.9 meters

CFCT * 50 --
 CHCS -- 1000 635a
 CJGX -- 500 --
 CKOK * 1000 635a
 CKTB -- 1000 635a
 CNRA * 500 --
 KFRR * 500 I
 WGBF † 500 I
 WMAL * 250 +C
 WOS * 500 I
 XETF -- 500 --

Victoria, B. C.
 Hamilton, Ont.
 Yorkton, Sask.
 Hamilton, Ont.
 St. Catharines, Ont.
 Moncton, N. B.
 Columbia, Mo.
 Evansville, Ind.
 Washington, D. C.
 Jefferson City, Mo.
 Veracruz, Ver.

Victoria Broadcasting Association
 The Hamilton Spectator
 Winnipeg Grain Exchange
 Wentworth Radio Broadcasting Co.
 Taylor & Bate, Ltd.
 Canadian National Railways
 Stephens College
 Evansville on the Air, Inc.
 M. A. Leese
 State Marketing Bureau
 Manuel Angel Fernandez & Cia.

640 kilocycles 468.5 meters

CHRC -- 100 645a
 CKCI † 100 645a
 CKCR -- 50 645
 CMHJ -- 40 645
 KFI * 5000 N
 WAU * 500 C Dn
 WOI * 500 D

Quebec, Que.
 Quebec, Que.
 Waterloo, Ont.
 Cienfuegos, Cuba
 Los Angeles, Cal.
 Columbus, Ohio
 Ames, Iowa

E. Fontaine
 Le "Soleil," Ltd.
 John Patterson
 Arturo Hernandez
 Earle C. Anthony, Inc.
 Associated Radiocasting Corp.
 State College of Agriculture

650 kilocycles 461.3 meters

KPCB * 100 Dn
 WSM * 5000 NX

Seattle, Wash.
 Nashville, Tenn.

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

660 kilocycles 454.3 meters

CHWK † 100 665
 CJRM † 500 665
 CJRW -- 500 665
 CMCO -- 250 --
 CMDC -- 500 --
 RUS -- 500 664
 WAAW * 500 D
 WFAF † 5000 N
 WTIC * 5000 N

Chilliwack, B. C.
 Moose Jaw, Sask.
 Fleming, Sask.
 Havana, Cuba
 Havana, Cuba
 Salvador
 Omaha, Nebr.
 New York City
 Hartford, Conn.

Chilliwack Broadcasting Co., Ltd.
 Jas. Richardson & Sons, Ltd.
 Jas. Richardson & Sons, Ltd.
 J. L. Stowers
 Juan Fernandez de Castro
 Republic of El Salvador
 Omaha Grain Exchange
 National Broadcasting Co., Inc.
 Travelers Broadcasting Service, Inc.

670 kilocycles 447.5 meters

HIX -- 100 669
 VOWR -- 500 675
 WMAQ * 5000 N

Santo Domingo
 St. Johns, N. F.
 Chicago, Ill.

Dominican Republic
 Wesley United Church
 National Broadcasting Co.

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.

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	*	5000	Ca	Toronto, Ont.
CJCJ	*	500	1	Calgary, Alta.
CNRX	*	5000	a	Toronto, Ont.
NAA	--	1000	---	Arlington, Va.
VAS	†	10000	685	Glace Bay, N. S.
XET	†	500	---	Monterrey, Mexico

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	N	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

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	--	50	1	Vancouver, B. C.
CHYC	*	5000	Sa	Montreal, Que.
CKAC	*	5000	Ca	Montreal, Que.
CKCD	--	50	1	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	2	Montreal, Que.
XER	--	75000	735	Villa Acuna, Mex.

W. G. Hassell Northern Electric Co., Ltd. La Presse Publishing Co., Ltd. Vancouver Daily Province United Church of Canada Sprott-Shaw Radio Co. A. Holstead & Wm. Hanlon 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.

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

750 kilocycles 399.8 meters

WJR	†	5000	NX	Detroit, Mich.
XEQ	--	5000	---	Juarez, Chih.

WJR. The Goodwill Station, Inc. Feliciano Lopez Islas		

760 kilocycles 394.5 meters

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

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.

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.

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	N	Schenectady, N. Y.

--	--	--

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

800 kilocycles 374.8 meters

WBAP	†	10000	1XN	Fort Worth, Texas
WFAA	‡	50000	1N	Dallas, Texas
XFC	--	350	805	Aguascalientes, Mexico

--	--	--

Carter Publications, Inc.
 News & Journal
 Gobierno del Estado de Aguascalientes

810 kilocycles 370.2 meters

WCCO	*	5000	CX	Minneapolis, Minn.
WPCB	*	500	D	New York City

--	--	--

Northwestern Broadcasting, Inc.
 Eastern Broadcasters, Inc.

820 kilocycles 365.6 meters

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

--	--	--

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.

--	--	--

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	---	Mexico City, Mexico

--	--	--

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

870 kilocycles 344.6 meters

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

--	--	--

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	---	Quebec, Que.
CKFC	†	50	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
 Metal Shingle & Siding Co.
 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

KCYS.
 880
 MTRS.
 340.7
 DIAL

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	Port Arthur, Ont.
CMCF	†	250	---	Havana, Cuba
CMX	*	1000	885	Havana, Cuba
KARK	*	250	---	Little Rock, Ark.
KFNF	--	500	2+	Shenandoah, Iowa
KUSD	*	500	2	Vermillion, S. D.
WGST	*	250	+C	Atlanta, Ga.
WILL	†	250	2+	Urbana, Ill.
WJAR	*	250	+N	Providence, R. I.
WKAQ	*	250	---	San Juan, P. R.
WMMN	*	250	+	Fairmont, W. Va.
XES	\$	500	---	Tampico, Mexico

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C. A. Munro, Ltd.
 Dr. G. M. Geldert
 Dougall Motor Car Corp.
 Raoul Karman
 Francisco Lavin
 Church of the Nazarene
 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	N	Buffalo, N. Y.
WJAX	*	1000	N	Jacksonville, Fla.
WKY	*	1000	N	Oklahoma City
WLBL	†	2000	D	Ellis, Wis.

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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	*	50	915	Prescott, Ont.
CFQC	--	500	1	Saskatoon, Sask.
CHNS	*	500	Za	Halifax, N. S.
CJGC	*	5000	b	London, Ont.
CNRH	--	500	Za	Halifax, N. S.
CNRL	**	5000	b	London, Ont.
CNRS	--	500	1	Saskatoon, Sask.
XEW	†	5000	---	Mexico City

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Radio Association
 The Electric Shop, Ltd.
 Halifax Herald, Ltd.
 Free Press Printing Co., Ltd.
 Canadian National Railways
 Canadian National Railways
 Canadian National Railways
 Mexican 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
WAAP	--	500	D	Chicago, Ill.
WBSO	--	500	D	Needham, Mass.
WWJ	†	1000	N	Detroit, Mich.

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Republic of Haiti
 Eugene P. O'Fallon, Inc.
 Colorado Radio Corp.
 Fisher's Blend Station, Inc.
 Houston Printing Co.
 Drivers' 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+	Shenandoah, Iowa
KROW	*	500	1+X	Oakland, Cal.
WBRC	*	500	+C	Birmingham, Ala.
WDBJ	*	250	+C	Roanoke, Va.
WIBG	*	25	S	Elkins Park, Pa.

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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.
 St. Paul's P. E. Church.

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.
WCSS	**	1000	N	Portland, Maine
WDAY	*	1000	N	Fargo, N. D.
WFIW	*	1000	C	Hopkinsville, Ky.
WHA	--	750	D+	Madison, Wis.
XEO	--	5000	---	Mexico City

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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.

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Manuel Alvarez
 Warner Bros. Broadcasting Corp.

INDEX BY FREQUENCIES AND DIAL NUMBERS

KGHL	--	1000	N
KMBC	*	1000	C
TL4NRH	--	75	948
WRC	†	500	N

Billings, Mont.
Kansas City, Mo.
Heredia, C. R.
Washington, D. C.

Northwestern Auto Supply Co., Inc.
Midland Broadcasting Co., Inc.
Armando Cespedes
National Broadcasting Co., Inc.

960 kilocycles 312.3 meters

CFCL	--	500	2S
CHCK	--	100	---
CHWC	*	500	3
CJBR	--	500	3a
CKKC	†	500	3a
CKNC	*	500	2
CMBC	--	150	965
CMBD	--	150	965
CNRN	--	500	3
XED	*	10000	965

Toronto, Ont.
Charlottetown, P. E. I.
Regina, Sask.
Regina, Sask.
Regina, Sask.
Toronto, Ont.
Havana, Cuba
Havana, Cuba
Regina, Sask.
Reynosa, Mexico

Dominion Battery Co.
W. E. Burke
R. H. Williams & Sons, Ltd.
Cooperative Wheat Producers, Ltd.
Leader Publishing Co., Ltd.
Canadian National Carbon Co., Ltd.
Domingo Fernandez
Luis Perez Garcia
Canadian National Railways
International Broadcasting Co.

970 kilocycles 309.1 meters

CMBT	--	500	---
CMGF	--	50	977
KJR	*	5000	N
WCFL	--	1500	N Dn

Havana, Cuba
Matanzas, Cuba
Seattle, Wash.
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
KDKA	--	50000	N

Calgary, Alta.
Pittsburgh, Pa.

Western Broadcasting Co.
Westinghouse Elec. & Mfg. Co.

990 kilocycles 302.8 meters

WBZ	†	25000	N□X
WBZA	†	25000	□X
XEK	†	101	---

Springfield, Mass.
Boston, Mass.
Mexico City

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

1000 kilocycles 299.8 meters

KFVD	*	250	Dn
WGEO	--	1000	D
WHO	*	5000	N□X
WOC	*	5000	N□X
XEA	--	100	---
XEC	--	50	---
XEE	*	105	---
XEFE	--	100	---
XEFI	--	100	---
XEFS	--	40	---
XEI	*	101	---
XEJ	*	100	---
XEL	--	10	---
XETC	--	100	---
XETG	--	100	---
XEU	--	100	---
XEV	--	100	---
XEY	--	105	---

Culver City, Cal.
York, Pa.
Des Moines, Iowa
Davenport, Iowa
Guadalajara, Jal.
Toluca, Mex.
Oaxaca, Oax.
N. Laredo, Tams.
Chihuahua, Chih.
Queretaro, Qro.
Morelia, Mexico
Juarez, Chih.
Saltillo, Coah.
Jalapa, Ver.
Torreon, Coah.
Veracruz, Ver.
Puebla, Pue.
Merida, Yuc.

Los Angeles Broadcasting Co.
York Broadcasting Co.
Central Broadcasting Co.
Central Broadcasting Co.
Alberto Pulos Saiza
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	---
CMBW	--	150	---
CMBZ	--	150	---
KGGF	†	500	2
KQW	*	500	---
WHN	*	250	1
WIS	*	500	+N
WLAP	†	250	C
WNAD	*	500	2
WPAP	*	250	1
WQAO	--	250	1
WRNY	--	250	1

Wolfville, N. S.
Havana, Cuba
Havana, Cuba
S. Coffeyville, Okla.
San Jose, Cal.
New York City
Columbia, S. C.
Louisville, Ky.
Norman, Okla.
New York City
New York City
New York City

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

1020 kilocycles 293.9 meters

CMJH	--	15	1017
KFKX	*	10000	Na
KYW	*	10000	Na
WRAX	†	250	D
XEFD	--	300	---

Ciego de Avila, Cuba
Chicago, Ill.
Chicago, Ill.
Philadelphia, Pa.
Tiajuana, B. C.

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

KCYS.
1020
MTRS.
293.9
DIAL

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

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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.
WMAK	*	1000	Dn	Buffalo, N. Y.

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KRLD Radio Corp.
Chamber of Commerce
Michigan State College
Buffalo Broadcasting Corp.

1050 kilocycles 285.5 meters

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

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

1060 kilocycles 282.8 meters

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

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

1070 kilocycles 280.2 meters

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

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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.

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Station WBT, Inc.
Wilbur Glenn Voliva
Moody Bible Institute

1090 kilocycles 275.1 meters

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

1100 kilocycles 272.6 meters

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

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E. F. 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

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Star Pub. & Ptg. Co.
N. S. Daigleish & 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.
WOW	--	1000	D	New York City
XEH	--	1000	1132	Monterrey, N. L.

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

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1140 kilocycles 263.0 meters

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

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Southwestern Sales Corp.
Alabama Polytechnic Institute
Manuel Espinosa Tagle

1150 kilocycles 260.7 meters

CJOR	*	500	1155	Vancouver, B. C.
CMCQ	--	600	---	Havana, Cuba
CMQ	†	250	---	Havana, Cuba
WHAM	*	5000	NX	Rochester, N. Y.

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G. C. Chandler
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	2N	Portland, Ore.
KOB	*	20000	2	Albuquerque, N. M.
WDGY	*	1000	1 Dn	Minneapolis, Minn.
WGBS	†	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.
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.
KSMR	--	100	---	Bakersfield, Cal.
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.
WEPS	†	100	7	Worcester, Mass.
WFAM	*	100	8	South Bend, Ind.
WFBC	*	50	10	Knoxville, Tenn.
WFBE	--	100	+	Cincinnati, Ohio
WHBC	†	10	4S	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.
WLBG	*	100	+	Petersburg, Va.
WNBO	*	100	4	Washington, Pa.
WNBW	†	10	---	Carbondale, Pa.
WNBX	†	10	2	Springfield, Vt.
WORC	*	100	7CX	Worcester, Mass.
WRBL	†	50	---	Columbus, Ga.
WWAE	*	100	8	Hammond, Ind.
10-AB	--	25	---	Moose Jaw, Sask.
10-BP	†	15	---	Wingham, Ont.

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J. W. B. Browne
Jose Anorga
Pedro Nogueras
W. J. Beard's Temple of Music
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
J. C. Liner
Santa Maria Radio
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.
Alfred Frank Kleindienst
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 Brdstg. Service Inc.
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

KCYS.
1200
MTRS.
249.9
DIAL

INDEX BY FREQUENCIES AND DIAL NUMBERS

1210 kilocycles 247.8 meters

CFCO	--	100	8	Chatham, Ont.
CFNB	--	100	---	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	3	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 Kampeska Radio Corp.
 Dodge City Broadcasting Co.
 James McClatchy Co.
 Pasadena Presbyterian Church
 Hello World Broadcasting Corp.
 Roy W. Waller
 John H. Stenger, Jr.
 Grace Covenant Pres. Church
 H. L. Dewing & Chas. Messter
 Westchester Broadcasting Corp.
 Clinton R. White
 First Trust & Savings Bank
 Emil Denmark, Inc.
 Harry H. Carman
 Great Southern Land Co., Inc.
 Beardsley Specialty Co.
 Anderson Broadcasting Corp.
 Wm. C. Forrest
 Monmouth Broadcasting Co.
 Bucknell University
 Gadsen Broadcasting Co., Inc.
 Mansfield Broadcasting Assn.
 Lutheran Assn. of Ithaca
 Havens & Martin, Inc.
 Peter J. Prinz
 A. E. Newton
 Francis M. Kadow
 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	N	Pittsburgh, Pa.
WDAE	*	1000	C	Tampa, Fla.
WREN	*	1000	IN	Lawrence, Kansas



Callejas-Coscolluela
 Manuel Cruz
 University of Kansas
 First Presbyterian Church
 State College of Washington
 St. Lawrence University
 WCAE, Inc.
 Tampa Publishing Co.
 Jenny Wren Co.

1230 kilocycles 243.8 meters

KFQD	--	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
KGCV	†	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.
 Kunsly-Trendle Broadcasting Corp.

INDEX BY FREQUENCIES AND DIAL NUMBERS

1250 kilocycles 239.9 meters

KFMX	†	1000	2	Northfield, Minn.
KFOX	*	1000	---	Long Beach, Cal.
WAAM	*	1000	1+X	Newark, N. J.
WCAL	*	1000	2	Northfield, Minn.
WDSU	†	1000	C	New Orleans, La.
WGCP	--	250	1	Newark, N. J.
WLB	†	1000	2	St. Paul, Minn.
WODA	--	1000	1	Paterson, N. J.
WRHM	*	1000	2	Minneapolis, Minn.
XEFA	--	250	---	Mexico City

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Carleton College
Nichols & Warinner, Inc.
WAAM, Inc.
St. Olaf College
Jos. H. Uhalt
May Radio Broadcast Corp.
University of Minnesota
Richard E. O'Dea
Minnesota Broadcasting Corp.
Manuel F. Murguia

1260 kilocycles 238.0 meters

KOIL	*	1000	N	Council Bluffs, Iowa
KRGV	*	500	1	Harlingen, Texas
KVOA	†	500	D	Tucson, Arizona
KWWG	*	500	1	Brownsville, Texas
WLBW	*	500	C+	Oil City, Pa.
WTOC	*	500	C	Savannah, Ga.

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Mona Motor Oil Co.
KRGV, Inc.
Robert M. Riculfi
Herald Pub. Co.
Radio-Wire Program Corp.
Savannah Broadcasting Co.

1270 kilocycles 236.1 meters

KGCA	†	50	2D	Decorah, Iowa
KOL	†	1000	C	Seattle, Wash.
KWOR	*	1000	C	Colorado Springs, Colo.
KWLC	*	100	2D	Decorah, Iowa
WASH	*	500	1	Grand Rapids, Mich.
WEAI	*	1000	D	Ithaca, N. Y.
WFBR	--	500	N	Baltimore, Md.
WJDX	*	1000	N	Jackson, Miss.
WOOD	†	500	1	Grand Rapids, Mich.
NEFB	--	50	---	Monterrey, N. L.

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Charles W. Greenley
Seattle Broadcasting Co., Inc.
Reynolds Radio Co., Inc.
Luther College
WASH Broadcasting Corp.
Cornell University
Baltimore Radio Show, Inc.
Lamar Life Insurance Co.
Kunsky-Trendle Broadcasting Corp.
Quintanilla y Stevenson

1280 kilocycles 234.2 meters

CMCU	--	150	1285	Havana, Cuba
CMCW	--	150	1285	Havana, Cuba
KFBB	*	1000	†	Great Falls, Mont.
WCAM	*	500	1	Camden, N. J.
WCAP	*	500	1	Asbury Park, N. J.
WDOD	*	1000	+C	Chattanooga, Tenn.
WIBA	*	500	+N	Madison, Wis.
WOAX	--	500	1	Trenton, N. J.
WRR	†	500	C	Dallas, Texas

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Jorge Garcia Serra
Jose Lorenzo
Buttrely Broadcast, Inc.
City of Camden
Radio Industries Broadcast Co.
WDOD Broadcasting Corp.
Badger Broadcasting Co.
WOAX, Inc.
City of Dallas

1290 kilocycles 232.4 meters

KDYL	†	1000	C	Salt Lake City
KFUL	--	500	1	Galveston, Texas
KLCN	*	50	D	Blytheville, Ark.
KTSA	†	1000	1+C	San Antonio, Texas
WEBC	*	1000	+N	Superior, Wis.
WJAS	*	1000	C+	Pittsburgh, Pa.
WNBZ	--	50	D	Saranac Lake, N. Y.

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Intermountain Broadcasting Corp.
News Publishing Co.
C. L. Lintzenich
Lone Star Broadcast Co.
Head of Lake Broadcasting Co.
Pittsburgh Radio Supply House
Smith & Mace

KCY.S.

1310

MTRS.

228.9

DIAL

1300 kilocycles 230.6 meters

KFAC	*	1000	4	Los Angeles, Cal.
KFH	*	1000	2C	Wichita, Kansas
KFJR	*	500	3	Portland, Ore.
KTBR	*	500	3	Portland, Ore.
WBRR	*	1000	1	Brooklyn, N. Y.
WEVD	*	500	1	New York City
WHAP	*	1000	1	New York City
WHAZ	*	500	1	Troy, N. Y.
WIOD	*	1000	N	Miami, Fla.
WOQ	*	1000	2	Kansas City, Mo.
NEM	†	250	---	Tampico, Tams.

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Los Angeles Broadcasting Co.
Radio Station KFH Co.
Ashley, C. Dixon—KFJR, Inc.
M. E. Brown
People's Pulpit Association
Debs Memorial Radio Fund, Inc.
Defenders of Truth Society, Inc.
Rensselaer Polytechnic Institute
Isle of Dreams Broadcasting Corp.
Unity School of Christianity
Maria T. de Gutierrez

1310 kilocycles 228.9 meters

KCRJ	†	100	D	Jerome, Arizona
KFBK	†	100	---	Sacramento, Cal.
KFGQ	†	100	7	Boone, Iowa
KFJY	*	100	7	Ft. Dodge, Iowa
KFPL	†	100	---	Dublin, Texas
KFFM	*	15	---	Greenville, Texas

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Chas. C. Robinson
Jas. McClatchy Co.
Boone Biblical College
Cedar Rapids Broadcast Co.
C. C. Baxter
The New Furniture Co.

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.	Treloar-Church Broadcasting Co.
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	D	Flint, Mich.	Frank D. Fallain
WFDV	†	100	D	Rome, Ga.	Rome Broadcasting Corp.
WGAL	*	100	5	Lancaster, Pa.	WGAL, Inc.
WGH	*	100	--	Newport News, Va.	Hampton Roads Broadcasting Corp
WHAT	†	100	4	Philadelphia, Pa.	Independence Broadcasting Co.
WJAC	*	100	3	Johnstown, Pa.	Johnstown Automobile Co.
WJAK	*	50	6	Elkhart, Ind.	Truth Publishing Co., Inc.
WKAV	*	100	--	Laconia, N. H.	Laconia Radio Club
WKBB	*	100	1	Joliet, Ill.	Sanders Bros. Radio Station
WKBC	*	100	--	Birmingham, Ala.	R. B. Broyles Furniture Co
WKBS	*	100	--	Galesburg, Ill.	Permil N. Nelson
WLBC	†	50	6	Muncie, Ind.	Donald A. Burton
WMBO	†	100	--	Auburn, N. Y.	WMBO, Inc.
WNBH	*	100	--	New Bedford, Mass.	New Bedford Broadcasting Co.
WOL	*	100	--	Washington, D. C.	American Broadcasting Co.
WRAW	*	100	5X	Reading, Pa.	Reading Broadcasting Co.
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.	Foukrod 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

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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	*	1000	N+	Cincinnati, Ohio	Crosley Radio Corp., Lessee
WTAQ	*	1000	1C	Eau Claire, Wis.	Gillette Rubber Co.

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Don Lee, Inc.
 Perkins Bros. Co.
 WDRG, Inc.
 Crosley Radio Corp., Lessee
 Gillette Rubber Co.

1340 kilocycles 223.7 meters

CMCG	--	30	1345	Havana, Cuba	Jose Justo Moran
CMCR	--	150	1345	Havana, Cuba	Aurelio Hernandez
CMCY	--	100	1345	Havana, Cuba	M. D. Autran
KFPW	†	50	D	Fort Smith, Ark.	Southwestern Hotels Co.
KFPY	*	1000	C	Spokane, Wash.	Symons Broadcasting Co.
WCOA	*	500	--	Pensacola, Fla.	City of Pensacola
WSPD	*	1000	C	Toledo, Ohio	Toledo Broadcasting Co.

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

1350 kilocycles 222.1 meters

KIDO	†	1000	N	Boise, Idaho	Boise Broadcasting Station
KWK	*	1000	N	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.

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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

KGJR	*	1000	---	Long Beach, Cal.
KGJR	†	500	N	Butte, Montana
WCSC	*	500	---	Charleston, S. C.
WFBL	*	1000	CX	Syracuse, N. Y.
WGES	*	500	1+	Chicago, Ill.
WJKS	*	1000	1+	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	---	Natanzas, 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	---	Marsfield, Ore.
KRE	100	6	---	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.
WELK	†	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.
WPOE	†	100	---	Patchogue, N. Y.
WQDM	*	100	D	St. Albans, Vt.
WRAK	*	100	---	Williamsport, Pa.
WRAM	*	100	---	Wilmington, N. C.
WRBJ	†	10	X	Hattiesburg, Miss.
WRDO	§	100	CP	Augusta, Maine
WRJN	†	100	---	Racine, Wis.
WSVS	*	50	---	Buffalo, N. Y.

Oscar S. Mechoso		
Genaro Sebater		
Alberto Alvarez		
United Fruit Co.		
Enid Radiophone Co.		
Leese Bros.		
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		
Clarke Electric Co.		
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		
Nassau Broadcasting Corp.		
A. J. St. Antoine		
C. R. Cummins		
Wilmington Radio Association		
Hattiesburg Broadcasting Co.		
WRDO, Inc.		
Racine Broadcasting Corp.		
Seneca Vocational School		

1380 kilocycles 217.3 meters

CMJC	--	150	1382	Camaguey, Cuba
KOH	†	500	C	Reno, Nevada
KOV	†	500	2	Pittsburgh, Pa.
KSO	*	500	1	Clarinda, Iowa
WKBH	*	1000	1C	La Crosse, Wis.
WSMK	*	200	2	Dayton, Ohio
XETB	--	125	---	Torreón, Coah.

Feliciano Isaac		
The Bee, Inc.		
KOV Broadcasting Co.		
Iowa Broadcasting Co.		
WKBH, Inc.		
Stanley M. Krohn, Jr.		
Jose A. Berumen		

KCY.S.
1400
MTRS.
214.2
DIAL

1390 kilocycles 215.7 meters

KLRA	*	1000	1C	Little Rock, Ark.
KOY	*	500	---	Phoenix, Arizona
KUQA	†	1000	1	Fayetteville, Ark.
WHK	*	1000	C	Cleveland, Ohio

Arkansas Broadcasting Co.		
Nielsen Radio & Sporting Goods Co.		
University of Arkansas		
Radio Air Service Corp.		

1400 kilocycles 214.2 meters

CMBI	--	30	1405	Havana, Cuba
CMBN	--	30	1405	Havana, Cuba
CMCH	--	15	1405	Havana, Cuba

Francisco Mayorquim		
Arnado Romeu		
Hermán Torralbas		

INDEX BY FREQUENCIES AND DIAL NUMBERS

CMCM	--	15	1405
KLO	*	500	--
KOCW	*	250	+
WBAA	†	500	1+
WBBC	*	500	2
WCGU	*	500	2
WCMA	†	500	1
WFOX	--	500	2
WKBF	†	500	1
WLTH	*	500	2
XEP	--	200	--

Havana, Cuba
Ogden, Utah
Chickasha, Okla.
Lafayette, Ind.
Brooklyn, N. Y.
Brooklyn, N. Y.
Culver, Ind.
Brooklyn, N. Y.
Indianapolis, Ind.
Brooklyn, N. Y.
Laredo, Mexico

Martinez-Madico
Peery Building Co.
College for Women
Purdue University
Brooklyn Broadcasting Corp.
U. S. Broadcasting Corp.
General Broadcasting Corp.
Paramount Broadcasting Co.
Indianapolis Broadcasting, Inc.
The Voice of Brooklyn, Inc.
La Voz Latino

1410 kilocycles 212.6 meters

KFLV	†	500	4
KGRS	*	1000	1
WAAB	*	500	C
WBGM	*	500	C
WDAG	*	1000	1
WHBL	*	500	4
WHIS	†	250	2
WODX	*	500	3
WRBX	*	250	2
WSFA	†	500	3

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

Rockford Broadcasters, Inc.
Gish Radio Service
Bay State Broadcasting Corp.
James E. Davidson
National Radio & Broadcasting Corp.
Press Pub. Co.
Daily Telegraph
Mobile Broadcasting Corp.
Richmond Development Corp.
Montgomery Broadcasting Co., Inc.

1420 kilocycles 211.1 meters

KABC	†	100	--
KBPS	--	100	4
KFIZ	*	100	--
KFOU	*	100	5
KFXD	*	100	--
KFXV	--	100	--
KFYO	†	100	+
KGFF	†	100	--
KGGC	†	100	5
KGIW	†	100	--
KGIX	†	100	--
KGKX	†	100	--
KGVO	†	100	D
KICK	*	100	--
KKRE	*	100	--
KXL	*	100	4
KXYZ	--	100	--
WAGM	--	100	CP
WDEV	--	50	D
WEDH	--	100	--
WEHS	--	100	2
WELL	†	50	X
WFDW	*	100	--
WHFC	--	100	--
WIAS	†	100	--
WILM	*	100	--
WJBO	*	100	--
WJMS	--	100	CPD
WKBI	--	100	2
WLBF	†	100	--
WMBG	*	100	--
WMBH	--	100	--
WPAD	†	100	--
WSPA	*	100	+
WTBO	*	100	+

San Antonio, Texas
Portland, Ore.
Fond du Lac, Wis.
Holy City, Cal.
Nampa, Idaho
Flagstaff, Arizona
Abilene, Texas
Shawnee, Okla.
San Francisco, Cal.
Trinidad, Colo.
Las Vegas, Nevada
Sand Point, Idaho
Missoula, Montana
Red Oak, Iowa
Eugene, Ore.
Portland, Ore.
Houston, Texas
Presque Isle, Maine
Waterbury, Vt.
Erie, Pa.
Cicero, Ill.
Battle Creek, Mich.
Anniston, Ala.
Cicero, Ill.
Ottumwa, Iowa
Wilmington, Del.
New Orleans, La.
Ironwood, Mich.
Cicero, Ill.
Kansas City, Kansas
Detroit, Mich.
Joplin, Mo.
Paducah, Ky.
Spartanburg, S. C.
Cumberland, Md.

Alamo Broadcasting Co.
Benson Polytechnic Institute
Reporter Printing Co.
W. E. Riker
Frank E. Hurt
Albert H. Scherman
T. E. Kirksey
KGFF Broadcasting Co.
Golden Gate Broadcasting Co.
Leonard E. Wilson
Las Vegas, Nevada, Radio Corp.
C. E. Twiss and F. H. McCann
Mosby's Incorporated
Red Oak Radio Corp.
Eugene Broadcasting Station
KXL Broadcasters, Inc.
Harris County Broadcast Co.
Aroostook Broadcasting Corp.
Harry C. Whitehill
Erie Dispatch-Herald
WEHS, Inc.
Enquirer-News Co.
Raymond G. Hammett
WHFC, Inc.
Iowa Broadcasting Co.
Delaware Broadcasting Co., Inc.
Valdemar Jensen
Marius Johnson
WKBI, Inc.
WLBF Broadcasting Co.
Michigan Broadcasting Co., Inc.
Edwin Dudley Aber
Paducah Broadcasting Co.
Voice of South Carolina
Associated Broadcasting Corp.

1430 kilocycles 209.7 meters

KECA	†	1000	D
KGNF	†	500	D
WBAK	†	500	1+
WCAH	*	500	C
WFEA	--	500	CP
WGBC	--	500	2S
WHEC	*	500	C
WHP	*	500	1C
WNBR	*	500	2
WOKO	†	500	C

Los Angeles, Cal.
North Platte, Nebr.
Harrisburg, Pa.
Columbus, Ohio
Manchester, N. H.
Memphis, Tenn.
Rochester, N. Y.
Harrisburg, Pa.
Memphis, Tenn.
Albany, N. Y.

Earle C. Anthony, Inc.
Great Plains Broadcasting Co.
Penna. State Police
Commercial Radio Service Co.
New Hampshire Broadcasting Co.
Memphis Broadcasting Co.
Hickory Electric & Radio Corp.
WHP, The Harrisburg Telegraph
Memphis Broadcasting Co.
WOKO, Inc.

1440 kilocycles 208.2 meters

KLS	*	250	D
WBIG	*	500	C

Oakland, Cal.
Greensboro, N. C.

Warner Bros.
North Carolina Broadcasting Co.

INDEX BY FREQUENCIES AND DIAL NUMBERS

WCBA * 250 1
WBMD * 500 3+
WSAN * 250 1
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 N
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.

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 * 10000 N
WJSV * 10000 ---

St. Paul, Minn.
 Alexandria, Va.

National Battery Broadcasting Co.
 Independent Publishing Co.

1470 kilocycles 204.0 meters

KGA † 5000 N
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 ---
KPO † 50 ---
KREG † 100 ---
KUT † 100 ---
KXO * 100 ---
WDIX -- 100 ---
WKBV * 100 +
WKBZ † 50 ---
WLBX * 100 1
WLOE * 100 +
WMBA † 100 ---
WMBQ * 100 1
WMIL † 100 1
WMPC † 100 ---
WNBF * 100 ---
WOP1 * 100 ---
WPEN * 100 +
WRDW * 100 ---
WSYB † 100 ---
WWRL * 100 1
WWSW * 160 ---
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.
 Connersville, 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.

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
 Westcoast 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 Brdctg. Station, Inc.
 Wm. Penn Broadcasting Co.
 Musicove, Inc.
 Philip Weiss Music Co.
 Long Island Broadcasting Corp.
 William S. Walker
 Manuel Zetina

KCYS.
1500
MTRS.
199.9
DIAL

INDEX BY LOCATIONS WITH MAP KEY

ALABAMA		Watts	Keys.				
Anniston O-22	100	WFDW	1420	San Jose J-1	500	KQW	1010
Birmingham O-21	5000	WAPI	1140	Santa Ana M-3	100	KREG	1500
	500	WBRC	930	Santa Barbara M-2	100	KDB	1500
	100	WKBC	1310	Stockton J-2	250	KGDM	1100
Gadsden O-21	100	WJBY	1210		100	KWG	1200
Huntsville N-21	50	WBHS	1200	COLORADO			
Mobile Q-20	500	WODX	1410	Colorado Springs K-11	1000	KVOR	1270
Montgomery P-21	500	WSFA	1410	Denver K-11	500	KFEL	920
					100	KFUP	1310
					500	KEXF	920
					1000	KLZ	560
					12500	KOA	830
					500	KPOF	880
ALASKA				Fort Morgan J-11	100	KGEW	1200
Anchorage	100	KFOD	1230	Grand Junction K-9	100	KFXJ	1310
Ketchikan	500	KGBU	900	Greeley J-11	500	KFKA	880
				Pueblo L-11	250	KGHF	1320
				Trinidad L-11	100	KGIW	1420
				Yuma J-12	100	KGKEK	1200
ARIZONA				CONNECTICUT			
Flagstaff M-7	100	KFX Y	1420	Bridgeport H-27	250	WICC	600
Jerome M-6	100	KCRJ	1310	Hartford H-27	500	WDRG	1330
Phoenix N-6	500	KOY	1390		50000	WTIC	660-1060
	500	KTAR	620	Storrs H-28	250	WCAC	600
Prescott M-6	500	KPJM	1500				
Tucson O-7	100	KGAR	1370				
	500	KVOA	1260				
ARKANSAS				DELAWARE			
Blytheville M-19	50	KLCN	1290	Wilmington J-26	250	WDEL	1120
Fayetteville M-16	1000	KUOA	1390		100	WILM	1420
Fort Smith N-16	50	KFPW	1340	DISTRICT OF COLUMBIA			
Hot Springs N-17	10000	KTHS	1040	Washington J-26	250	WMAL	630
Little Rock N-17	250	KARK	890		500	WRC	950
	100	KGHI	1200		100	WOL	1310
	1000	KLRA	1390				
Paragould M-18	100	KBTM	1200	FLORIDA			
				Clearwater R-24	1000	WFLA	620
CALIFORNIA				Gainesville Q-24	5000	WRUF	830
Bakersfield L-3	100	KSMR	1200	Jacksonville Q-24	1000	WJAX	900
Berkeley J-2	100	KRE	1370	Miami T-25	1000	WIOD	1300
Beverly Hills M-3	500	KMPC	710		1000	WQAM	560
Burbank M-3	500	KELW	780	Orlando R-24	500	WDBO	1120
Culver City M-3	250	KFVD	1000	Pensacola Q-21	500	WGOA	1340
El Centro N-4	100	KXO	1500	St. Petersburg S-24	1000	WSUN	620
Fresno K-2	100	KMJ	1210	Tampa R-24	1000	WDAE	1220
Hollywood M-3	1000	KFWB	950		100	WMBR	1370
	500	KMTR	570				
	5000	KNX	1050	GEORGIA			
Holy City K-1	100	KFQU	1420	Athens O-23	500	WTFI	1450
Inglewood M-3	500	KMCS	1120	Atlanta O-22	250	WGST	890
Long Beach M-3	1000	KFOX	1250		100	WJTL	1370
	1000	KGER	1360		5000	WSB	740
	1000	KECA	1430	Augusta O-23	100	WRDW	1500
	1000	KFAC	1300	Columbus O-22	50	WRBL	1200
	5000	KFI	640	Macon O-23	500	WMAZ	1180
	500	KFSG	1120	Rome N-22	100	WFWD	1310
	100	KGJ	1200	Savannah O-24	500	WTOG	1260
	1000	KHJ	900	Thomasville Q-22	100	WQDX	1210
	500	KTM	780	HAWAII			
Oakland J-1	250	KLS	1440	Honolulu	250	KGMB	1320
	500	KLX	880		1000	KGU	940
	500	KROW	930				
Pasadena M-3	50	KPPC	1210	IDAHO			
Sacramento J-2	100	KFBK	1310	Boise G-5	1000	KIDO	1350
San Bernardino M-3	100	KFXM	1210	Idaho Falls G-7	250	KID	1320
San Diego N-3	500	KFSD	600	Nampa G-5	100	KFXD	1420
	500	KGB	1330	Pocatello H-7	250	KSEI	900
San Francisco J-1	1000	KFRC	610	Sand Point D-6	100	KGKX	1420
	500	KFWI	930	Twin Falls H-6	250	KTFI	1320
	100	KGGC	1420				
	7500	KGO	790				
	100	KJBS	1070				
	5000	KPO	680				
	1000	KTAB	560				
	1000	KYA	1230				

INDEX BY LOCATIONS WITH MAP KEY

ILLINOIS			Watts	Keys.				
Carthage J-18	50	WCAZ	1070	Shenandoah J-16			500 KFNF 890	
Chicago I-20	10000	KFKX	1020	Sioux City I-15			500 KMA 930	
	10000	KYW	1020	Waterloo I-17			1000 KSCJ 1330	
	500	WAAF	920				500 WMT 600	
	25000	WBBM	770	KANSAS				
	1500	WCFL	970	Arkansas City M-15			100 WBBZ 1200	
	5000	WCHI	1490	Dodge City L-13			100 KGNO 1210	
	100	WCRW	1210	Kansas City K-16			100 WLFU 1420	
	100	WEDC	1210	Lawrence K-16			500 KFKU 1220	
	50000	WENR	870	Manhattan K-15			1000 WREN 1220	
	500	WGES	1360	Milford K-14			500 KSAC 580	
	25000	WGN	720	Topeka K-16			5000 KFBI 1050	
	1000	WBFO	560	Wichita L-15			1000 WIBW 580	
	25000	WJBT	770				1000 KFHF 1300	
	50000	WLS	870	KENTUCKY				
	5000	WMAQ	670	Covington K-22			5000 WCKY 1490	
	5000	WMBI	1080	Hopkinsville M-20			1000 WFIW 940	
	500	WPCC	560	Louisville L-21			10000 WHAS 820	
	100	WSBC	1210				250 WLAP 1010	
Cicero I-20	100	WEHS	1420	Paducah M-19			100 WPAD 1420	
	100	WHFC	1420					
	100	WKBI	1420	LOUISIANA				
Decatur K-19	100	WJBL	1200	Monroe P-18			100 KMLB 1200	
Galesburg J-18	100	WKBS	1310	New Orleans R-19			100 WABZ 1200	
Harrisburg L-19	100	WBEQ	1210				1000 WDSU 1250	
Joliet I-19	100	WCLS	1310				100 WJBO 1420	
	100	WKBB	1310				100 WJBW 1200	
La Salle J-19	100	WJBC	1200				500 WSMB 1320	
Mooseheart I-19	20000	WJJD	1130	Shreveport P-17			10000 WWL 850	
Peoria Heights J-19	500	WMBD	1440				50 KRMD 1310	
Quincy K-18	500	WTAD	1440				1000 KTBS 1450	
Rockford I-19	500	KFLV	1410				100 KWEA 1210	
Rock Island I-18	100	WHBF	1210				10000 KWKH 850	
Springfield K-19	100	WCBS	1210	MAINE				
	100	WTAX	1210	Augusta F-28			100 WRDO 1370	
Tuscola K-20	100	WDZ	1070	Bangor F-29			100 WABI 1200	
Urbana J-20	250	WILL	890				500 WLBZ 620	
Zion I-20	5000	WCBF	1080	Portland F-28			1000 WCSH 940	
				Presque Isle D-29			100 WAGM 1420	
INDIANA								
Anderson J-21	100	WHBU	1210	MARYLAND				
Connersville K-21	100	WKBV	1500	Baltimore J-26			10000 WBAL 760-1060	
Culver I-20	500	WCMA	1400				250 WCAO 600	
Elkhart I-21	50	WJAK	1310				100 WCBM 1370	
Evansville L-20	500	WGBF	630	Cumberland J-25			500 WFRB 1270	
Fort Wayne J-21	100	WGL	1370				100 WTBO 1420	
	10000	WQWO	1160	MASSACHUSETTS				
Gary I-20	1000	WJKS	1360	Boston G-28			500 WAAB 1410	
Hammond I-20	100	WWAE	1200				1000 WBIS 1230	
Indianapolis J-21	1000	WFBM	1230				25000 WBZA 990	
	500	WKBF	1400				1000 WEEI 590	
Lafayette J-20	500	WBAA	1400				1000 WHDH 830	
Muncie J-21	50	WLBC	1310				100 WLOE 1500	
South Bend I-20	100	WFAM	1200				1000 WNAC 1230	
Terre Haute K-20	500	WSBT	1230	Fall River H-28			250 WSAR 1450	
	100	WBOW	1310	Lexington G-28			100 WLEY 1370	
IOWA					Needham G-28			500 WBSO 920
Ames I-17	5000	WOI	640	New Bedford H-28			100 WNBH 1310	
Boone I-17	100	KFGQ	1310	Springfield H-27			25000 WBZ 990	
Cedar Rapids I-18	100	KWCR	1310	Worcester G-28			100 WEPS 1200	
Clarinda J-16	50	KSO	1380				100 WORC 1200	
Council Bluffs J-16	1000	KOIL	1260				250 WTAG 580	
Davenport I-18	5000	WOC	1000	MICHIGAN				
Decorah H-18	50	KGCA	1270	Battle Creek I-21			50 WELL 1420	
	100	KWLC	1270	Bay City H-22			500 WBCM 1410	
Des Moines I-17	5000	WHO	1000	Calumet E-19			100 WHDF 1370	
Fort Dodge I-16	100	KFJY	1310	Detroit H-22			50 WJBK 1370	
Iowa City I-18	500	WSUI	880				5000 WJFR 750	
Marshalltown I-17	100	KFJB	1200				100 WMBG 1420	
Ottumwa J-17	100	WIAS	1420					
Red Oak J-16	100	KICK	1420					

INDEX BY LOCATIONS WITH MAP KEY

Detroit H-22	1000	WWJ	920				
	1000	WXYZ	1240				
East Lansing H-21	1000	WKAR	1040				
Flint H-22	100	WFDF	1310				
Grand Rapids H-21	500	WASH	1270				
	500	WOOD	1270				
Ironwood F-18	100	WJMS	1420				
Jackson I-21	100	WIBM	1370				
Kalamazoo I-21	1000	WKZO	590				
Lapeer H-22	100	WMPC	1500				
Ludington H-20	50	WKBZ	1500				
Marquette F-19	100	WBEO	1310				
Royal Oak H-22	50	WEXL	1310				
MINNESOTA							
Fergus Falls F-15	100	KGDE	1200				
Minneapolis G-17	5000	WCCO	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	1460				
MISSISSIPPI							
Grenville O-18	100	WRBQ	1210				
Gulfport Q-19	100	WGCM	1210				
Hattiesburg Q-19	10	WRBJ	1370				
Jackson P-19	1000	WJDX	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	950				
	100	KWKC	1370				
	1000	WDAF	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				
	50000	KMOX	1090				
	500	KSD	550				
	1000	KWK	1350				
	1000	WEW	760				
	100	WIL	1200				
MONTANA							
Billings F-9	1000	KGHL	950				
Butte F-7	500	KGIR	1360				
Great Falls E-8	1000	KFBB	1280				
Kalispell D-7	100	KGEZ	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	KGFV	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	590				
Scottsbluff I-11	100	KGKY	1500				
York J-15	500	KGBZ	930				
				NEVADA			
				Watts			Kcys.
Las Vegas L-5	100	KGIX	1420				
Reno T-3	500	KOH	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	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	1430				
Auburn H-25	100	WMBO	1310				
Binghamton H-26	100	WBNF	1500				
Brooklyn I-27	500	WBBC	1400				
	1000	WBBR	1300				
	500	WCCU	1400				
	500	WFOX	1400				
	500	WLTH	1400				
	100	WMBQ	1500				
	100	WMIL	1500				
Buffalo H-24	1000	WBN	900				
	100	WEBR	1310				
	1000	WGR	550				
	5000	WKBW	1480				
	1000	WMAK	1040				
	50	WSVS	1370				
Canton F-26	500	WCAD	1220				
Freeport I-27	100	WGBB	1210				
Glens Falls G-27	50	WBCF	1370				
Ithaca H-25	1000	WEAI	1270				
	50	WLCI	1210				
	100	WMRJ	1210				
Jamestown H-24	50	WOCL	1210				
Long Island City I-27	100	WLBX	1500				
New York City I-27	50000	WABC	860				
	250	WBNX	1350				
	50000	WBOQ	860				
	250	WCDA	1350				
	50000	WEAF	660				
	500	WEVD	1300				
	500	WGBS	1180				
	1000	WHAP	1300				
	250	WHN	1010				
	30000	WJZ	760				
	5000	WLWL	1100				
	500	WMCA	570				
	250	WMSG	1350				
	500	WNYC	570				
	1000	WOV	1130				
	250	WPAP	1010				
	500	WPCB	810				
	250	WQAO	1010				
	250	WRNY	1010				

INDEX BY LOCATIONS WITH MAP KEY

Patchogue I-27	100	WPOE	1370
Rochester G-25	5000	WHAM	1150
	500	WHEC	1430
Saranac Lake F-26	50	WNBZ	1290
Schenectady G-27	50000	WGY	790
Syracuse G-25	1000	WFBL	1360
	250	WMAC	570
	250	WSYR	570
Troy G-27	500	WHAZ	1300
Utica G-26	100	WIBX	1200
Woodside I-27	100	WWRL	1500
Yonkers I-27	100	WCOH	1210

NORTH CAROLINA

Asheville M-23	1000	WWNC	570
Charlotte M-24	5000	WBT	1080
Gastonia M-24	100	WSOC	1210
Greensboro M-24	500	WBIG	1440
Raleigh M-25	1000	WPTF	680
Wilmington N-26	100	WRAM	1370
Winston-Salem M-24	100	WSJS	1310

NORTH DAKOTA

Bismarck F-13	1000	KFYR	550
Devils Lake E-14	100	KDLR	1210
Fargo F-15	1000	WDAY	940
Grand Forks E-15	100	KFJM	1370
Mandan F-13	100	KGCU	1240
Minot E-13	100	KLPM	1240

OHIO

Akron I-23	1000	WADC	1320
Canton I-23	10	WHBC	1200
Cincinnati K-22	100	WFBE	1200
	1000	WKRC	550
	50000	WLW	700
	1000	WSAI	1330
Cleveland I-23	500	WGAR	1450
	1000	WHK	1390
	500	WJAY	610
	50000	WTAM	1070
Columbus J-22	500	WAIU	640
	500	WCAH	1430
	750	WEOA	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	1340
Youngstown I-23	500	WKBN	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	1480
	100	KFXR	1310
	100	KGFG	1370
	1000	WKY	900
S. Coffeyville M-15	500	KGGF	1010
Shawnee N-15	100	KGFF	1420
Tulsa M-15	5000	KVOO	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	1180
	100	KBPS	1420
	500	KPTR	1300
	1000	KGW	620
	1000	KOIN	940
	500	KTBR	1300
	500	KWJJ	1060
	100	KXL	1420

PENNSYLVANIA

Allentown I-26	250	WCBA	1440
	250	WSAN	1440
Altoona I-25	100	WFBG	1310
Carbondale H-26	10	WNBW	1200
Elkins Park I-26	25	WIBG	930
Erie H-24	100	WEDH	1420
Grove City I-24	100	WSAJ	1310
Harrisburg I-25	500	WBAK	1430
	100	WCOD	1200
	500	WHP	1430
Johnstown J-24	100	WJAC	1310
Lancaster I-26	100	WGAL	1310
	100	WKJC	1200
	100	WJBU	1210
Lewisburg I-26	500	WLBW	1260
Oil City I-24	1000	WCAU	1170
Philadelphia I-26	100	WELK	1370
	500	WFAN	610
	500	WFI	560
	100	WHAT	1310
	500	WIP	610
	500	WLIT	560
	100	WPEN	1500
	250	WRAX	1020
	100	WTEL	1310
Pittsburgh J-24	50000	KDKA	980
	500	KQV	1380
	1000	WCAE	1220
	1000	WJAS	1290
	100	WWSW	1500
Reading I-26	1000	WEU	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	780
	250	WJAR	890
	100	WPRO	1210

SOUTH CAROLINA

Charleston O-25	500	WCSC	1360
Columbia N-24	500	WIS	1010
Spartanburg N-23	100	WSPA	1420

INDEX BY LOCATIONS WITH MAP KEY

SOUTH DAKOTA		Watts	Kcys.
Brookings H-15	500	KFDY	550
Huron H-14	100	KGDY	1200
Mitchell H-14	100	KGDA	1370
Pierre G-13	200	KGFX	580
Rapid City H-12	100	WCAT	1200
Sioux Falls H-15	2500	KSOO	1110
Vermillion I-15	500	KUSD	890
Watertown G-15	100	KGCR	1210
Yankton I-15	1000	WNAX	570

TENNESSEE			
Bristol L-23	100	WOPI	1500
Chattanooga N-21	1000	WDOD	1280
Jackson N-20	100	WTJS	1310
Knoxville M-22	50	WFBC	1200
	1000	WNOX	560
	100	WROL	1310
Memphis N-19	500	WGBC	1430
	100	WHBQ	1370
	500	WMC	780
	500	WNBR	1430
	500	WREC	600
Nashville M-21	5000	WLAC	1470
	5000	WSM	650
Springfield M-20	100	WSIX	1210

TEXAS			
Abilene P-13	100	KFYO	1420
Amarillo N-12	1000	KGRS	1420
	1000	WDAG	1410
	100	KUT	1500
Austin Q-14	500	KFDM	560
Beaumont R-17	500	KWVG	1260
Brownsville U-15	500	WTAW	1120
College Sta. Q-15	100	KGFI	1500
Corpus Christi S-14	1000	KRLD	1040
Dallas P-15	5000	WFAA	800
	500	WRR	1280
Dublin P-14	100	KEPL	1310
El Paso P-9	100	KTSM	1310
	100	WDAH	1310
Fort Worth P-15	100	KFJZ	1370
	1000	KTAT	1240
	1000	WBAP	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	920
	100	KTLC	1310
	500	KTIRH	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	1290
	5000	WOAI	1190
Tyler P-16	100	KGKB	1500
Waco Q-15	1000	WACO	1240
Wichita Falls O-14	250	KGKO	570

UTAH			
Ogden I-7	500	KLO	1400
Salt Lake City I-7	1000	KDYL	1290
	5000	KRLD	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			
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	780
Petersburg L-26	100	WLBG	1200
Richmond K-26	100	WBBL	1210
	100	WMIBG	1210
	5000	WRVA	1110
Roanoke L-24	250	WDBJ	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	970
	1000	KOL	1270
	1000	KOMO	920
	100	KPCB	650
	50	KRSC	1120
	1000	KTW	1230
	100	KVL	1370
	500	KXA	570
Spokane D-5	100	KFIO	1120
	1000	KFPY	1340
	5000	KGA	1470
	1000	KHIQ	590
Tacoma D-3	500	KMO	860
	1000	KVI	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	WOBV	580
Fairmont J-24	250	WMMN	890
Huntington K-23	250	WSAZ	580
Wheeling J-24	5000	WWVA	1160

WISCONSIN			
Eau Claire G-18	1000	WTAQ	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	1380
Madison H-19	750	WHA	940
	500	WIBA	1280
Manitowoc H-20	100	WQMT	1210
Milwaukee H-19	250	WHAD	1120
	250	WISN	1120
	1000	WTMJ	1210
Poynette H-19	100	WIBU	620
Racine I-20	100	WRJN	1370
Sheboygan H-20	500	WHBL	1410
Superior F-17	1000	WEBC	1290

WYOMING			
Casper H-10	100	KDFN	1210

CANADA

ALBERTA			
Calgary B-7	500	CFAC	690
	1000	CFCN	985
	500	CJCF	690

INDEX BY LOCATIONS WITH MAP KEY

Edmonton A-8	250	CHMA	580	QUEBEC	Watt	Keys.	
	500	CJCA	930	Montreal E-26	500	CFCF	1030
	500	CKUA	580		5000	CHYC	730
Lethbridge C-8	100	CJOC	1120		5000	CKAC	730
Red Deer A-8	1000	CKLC	840	Quebec D-27	5000	CNRM	730
	1000	CNRD	840		100	CHRC	645
					100	CKCI	645
					50	CKCV	880
					50	CNRQ	880
BRITISH COLUMBIA				SASKATCHEWAN			
Chilliwack B-3	100	CHWK	665	Fleming C-13	500	CJRW	665
Kamloops B-5	100	CFJC	1120	Moose Jaw C-11	500	CJRM	665
Kelowna C-5	100	CKOV	1200		25	10-AB	1200
Vancouver B-3	50	CHLS	730	Regina C-12	500	CHWC	960
	500	CJOR	1155		500	CJBR	960
	50	CKCD	730		500	CKCK	960
	50	CKFC	730	Saskatoon B-11	500	CNRR	960
	100	CKMO	730		500	CFQC	910
	100	CKWX	730	Yorkton B-13	500	CNRS	910
	500	CNRV	1030		500	CJGX	630
Victoria C-3	50	CFCT	630				
MANITOBA				CENTRAL AMERICA			
Brandon D-14	500	CKX	540	COSTA RICA			
Winnipeg D-15	5000	CKY	780	Heredia FF-23	75	T14NRH	948
	5000	CNRW	780	San Jose FF-23	50	TIC	900
NEW BRUNSWICK				GUATAMALA			
Fredericton D-29	100	CFNB	1210	Guatemala CC-19	50	TGW	570
Moncton D-30	500	CNRA	630	HONDURAS			
St. John D-30	500	CFBO	890	Tegucigalpa CC-21	2300	HRB	1370
NEWFOUNDLAND				SALVADOR			
St. Johns A-35	500	VOWR	675	Salvador CC-19	500	RUS	664
NOVA SCOTIA				MEXICO			
Glace Bay C-32	10000	VAS	685	AGUASCALIENTES			
Halifax E-31	500	CHNS	910	Aguascalientes W-10	350	XFC	805
	500	CNRH	910	BAJA CALIFORNIA			
Sydney C-32	50	CJCB	880	Tijuana N-3	30	NEFD	1020
Woolville D-31	50	CKIC	1010	CHIHUAHUA			
ONTARIO				Chihuahua R-9	100	NEFI	1000
Chatham H-22	100	CFCO	1210		250	XEF	875
Cobalt E-23	100	CKMC	1210	Juarez P-9	101	XEJ	1000
Hamilton H-24	500	CHCS	630		5000	XEQ	750
	50	CHML	880	COAHUILA			
	1000	CKOC	635	Saltillo, Coah. U-12	10	XEL	1090
Kingston G-25	50	CFRC	930	Torreón U-11	125	XETB	1380
London H-23	5000	CJGC	910		100	NETG	1000
	5000	CNRL	910	Villa Acuna R-12	75000	XER	735
North Bay E-23	100	CFCH	930	D. F.			
Ottawa F-25	100	CKCO	890	Coyoacan Y-13	100	NETZ	1500
	500	CNRO	600	Mexico City Y-13	1000	XEB	1030
Port Arthur E-19	50	CKPR	890		250	XEFA	1250
Prescott F-25	50	CFLC	915		100	NEG	1360
Preston H-23	50	CKPC	880		101	XEK	990
St. Catherines H-24	1000	CKTB	635		1000	XEN	711
Toronto G-24	500	CFCA	1120		5000	XEO	940
	500	CFCL	960		500	XETA	1140
	5000	CFRB	690		100	XETQ	1230
	500	CKCL	580		5000	XEW	910
	5000	CKGW	840		500	XEX	1210
	500	CKNC	960		2000	XFG	638
	500	CNRT	1120		1000	XFI	818
	5000	CNRX	690		500	XFX	860
	5000	CPRY	840		50	XEC	1000
Waterloo G-23	50	CKCR	645				
Wingham G-23	15	10-BP	1200				
PRINCE EDWARD ISLAND							
Charlottetown C-31	500	CFCY	580				
	100	CHCK	960				
Summerside C-31	100	CHGS	1120				
				Toluca. Y-12			

CFAC 690	CKAC 730	CMBZ 1010	CNRD 840
Calgary, Alta.	Montreal, Que.	Havana, Cuba	Red Deer, Alta.
CFBO 890	CKCD 730	CMC 842	CNRH 910
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 960	CKCO 890	CMCF 890	CNRQ 880
Toronto, Ont.	Ottawa, Ont.	Havana, Cuba	Quebec, Que.
CFCN 985	CKCR 645	CMCG 1345	CNRR 960
Calgary, Alta.	Waterloo, Ont.	Havana, Cuba	Regina, Sask.
CFCO 1210	CKCV 880	CMCH 1405	CNRS 910
Chatham, Ont.	Quebec, Que.	Havana, Cuba	Saskatoon, Sask.
CFCT 630	CKFC 730	CMCJ 620	CNRT 1120
Victoria, B. C.	Vancouver, B. C.	Havana, Cuba	Toronto, Ont.
CFCY 580	CKGW 840	CMCM 1405	CNRV 1030
Ch'lotet'n, P. E. I.	Toronto, Ont.	Havana, Cuba	Vancouver, B. C.
CFJC 1120	CKIC 1010	CMCN 925	CNRW 780
Kamloops, B. C.	Wolfville, N. S.	Havana, Cuba	Winnipeg, Man.
CFLC 915	CKLC 840	CMCO 660	CNRX 690
Prescott, Ont.	Red Deer, Alta.	Havana, Cuba	Toronto, Ont.
CFNB 1210	CKMC 1210	CMCQ 1150	CPRY 840
Fredericton, N.B.	Cobalt, Ont.	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.	Havana, Cuba	Tequicgalpa
CHCK 960	CKOV 1200	CMCY 1345	KABC 1420
Ch'lotet'n, P. E. I.	Kelowna, B. C.	Havana, Cuba	San Antonio, Tex.
CHCS 630	CKPC 880	CMDC 660	KARK 890
Hamilton, Ont.	Preston, Ont.	Havana, Cuba	Lit. Rock, Ark.
CHGS 1120	CKPR 890	CMGA 834	KBPS 1420
Sum'rside, P. E. I.	Port Arthur, Ont.	Colon, Cuba	Portland, Ore.
CHLS 730	CKTB 635	CMGB 1205	KBTM 1200
Vancouver, B. C.	St. Cath., Ont.	Matanzas, Cuba	Paragould, Ark.
CHMA 580	CKUA 580	CMGE 1375	KCRC 1370
Edmonton, Alta.	Edmonton, Alta.	Cardenas, Cuba	Enid, Okla.
CHML 880	CKWX 730	CMGF 977	KCRJ 1310
Hamilton, Ont.	Vancouver, B. C.	Matanzas, Cuba	Jerome, Ariz.
CHNS 910	CKX 540	CMGH 1370	KDB 1500
Halifax, N. S.	Brandon, Man.	Matanzas, Cuba	S. Barbara, Cal.
CHRC 645	CKY 780	CMHC 790	KDFN 1210
Quebec, Que.	Winnipeg, Man.	Tuinucu, Cuba	Casper, Wyo.
CHWC 960	CMAB 1249	CMHD 950	KDKA 980
Regina, Sask.	Pinar del Rio, Cu	Caibarien, Cuba	Pittsburgh, Pa.
CHWK 665	CMAC 1375	CMHI 1110	KDLR 1210
Chilliwack, B. C.	Pinar del Rio, Cu	Santa Clara, Cu	Devils Lake, N.D.
CHYC 730	CMBC 965	CMHJ 645	KDYL 1290
Montreal, Que.	Havana, Cuba	Cienfuegos, Cuba	Salt Lake City
CJBR 960	CMBD 965	CMJC 1382	KECA 1430
Regina, Sask.	Havana, Cuba	Camaguey, Cuba	Los Angeles, Cal.
CJCA 930	CMBG 1070	CMJE 856	KELW 780
Edmonton, Alta.	Havana, Cuba	Camaguey, Cuba	Burbank, Cal.
CJCB 880	CMBI 1405	CMJF 930	KEX 1180
Sydney, N. S.	Havana, Cuba	Camaguey, Cuba	Portland, Ore.
CJCJ 690	CMBL 1500	CMJG 1200	KFBF 770
Calgary, Alta.	Havana, Cuba	Camaguey, Cuba	Lincoln, Nebr.
CJGC 910	CMBN 1405	CMJH 1017	KFAC 1300
London, Ont.	Havana, Cuba	Ciego de Avila, C.	Los Angeles, Cal.
CJGX 630	CMBQ 1500	CMK 730	KFB 1280
Yorkton, Sask.	Havana, Cuba	Havana, Cuba	Great Fls., Mont.
CJOC 1120	CMBR 1500	CMKC 1034	KFBI 1050
Lethbridge, Alta.	Havana, Cuba	Santiago, Cuba	Milford, Kans.
CJOR 1155	CMBS 790	CMQ 1150	KFBK 1310
Vancouver, B. C.	Havana, Cuba	Havana, Cuba	Sacramento, Cal.
CJRM 665	CMBT 970	CMW 588	KFBL 1370
Moose Jaw, Sask.	Havana, Cuba	Havana, Cuba	Everett, Wash.
CJRW 665	CMBW 1010	CMX 885	KFDM 560
Fleming, Sask.	Havana, Cuba	Havana, Cuba	Beaumont, Tex.
	CMBY 1225	CNRA 630	KFDY 550
	Havana, Cuba	Moncton, N. B.	Brookings, S. D.

KFEL 920
Denver, Colo.
KFEQ 680
St. Joseph, Mo.
KFGQ 1310
Boone, Iowa
KPH 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
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KFKX 1020
Chicago, Ill.
KFLV 1410
Rockford, Ill.
KFLX 1370
Galveston, Tex.
KFMX 1250
Northfield, Minn.
KFNF 890
Shenandoah, Ia.
KFOR 1210
Lincoln, Nebr.
KFOY 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.
KFQU 1420
Holy City, Cal.
KFRG 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'd'u, Mo

KFWB 950
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
KFXY 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
KGCN 1210
Watertown, S. D.
KGCU 1240
Mandan, N. D.
KGCX 1310
Wolf P't, Mont.
KGDA 1370
Mitchell, S. D.
KGDE 1200
Fergus Falls, Minn
KGDH 1100
Stockton, Cal.
KGDY 1200
Huron, S. D.
KGEK 1200
Yuma, Colo.
KGER 1360
Long Beach, Cal.
KGEW 1000
Ft. Morgan, Colo
KGEZ 1310
Kalispell, Mont.
KGFF 1420
Shawnee, Okla.
KFGF 1370
Oklahoma City
KGFH 1500
Corp's Ch'sti, Tex
KGFJ 1200
Los Angeles, Cal.
KGFK 1500
Moorhead, Minn.
KGLL 1370
Raton, N. M.
KGFW 1310
Kearney, Nebr.
KGFV 580
Pierre, S. D.
KGGC 1420
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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
KGBK 1500
Tyler, Texas
KGLL 1370
San Angelo, Tex.
KGGK 570
Wichita Flls., Tex.
KGGX 1420
Sand Point, Idaho
KGGY 1500
Scottsbluff, Nebr.
KGMH 1320
Honolulu, T. H.
KGNF 1430
No. Platte, Nebr.
KGNU 1210
Dodge City, Kas.
KGO 700
San F'nscisco, Cal.
KGRS 1410
Amarillo, Texas
KGRU 940
Honolulu, Hawaii
KGVU 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, Ida.
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
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KOAC 550
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KOLN 940
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KOL 1270
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KOOS 1370
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KOY 1390
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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
KPRC 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	KWG 1200 Stockton, Cal.	WASH 1270 Gr. Rapids, Mich.	WCAP 1280 Asbury Pk., N. J.
KRMD 1310 Shreveport, La.	KWJJ 1060 Portland, Ore.	WAWZ 1350 Zarephath, N. J.	WCAT 1200 Rapid City, S. D.
KROW 930 Oakland, Cal.	KWK 1350 St. Louis, Mo.	WBAA 1400 Lafayette, Ind.	WCAU 1170 Philadelphia, Pa.
KRSC 1120 Seattle, Wash.	KWKC 1370 Kansas City, Mo.	WBAK 1430 Harrisburg, Pa.	WCAX 1200 Burlington, Vt.
KSAC 580 Manh'tt'n, Kans.	KWKH 850 Shreveport, La.	WBAL 760-1060 Baltimore, Md.	WCAZ 1070 Carthage, Ill.
KSCJ 1330 Sioux City, Ia.	KWCL 1270 Decorah, Iowa	WBAP 800 Fort Worth, Tex.	WCHA 1440 Allentown, Pa.
KSD 550 St. Louis, Mo.	KWSC 1220 Fullman, Wash.	WBAX 1210 Wilkes-Barre, Pa.	WCHD 1080 Zion, Ill.
KSEI 900 Pocatello, Idaho	KWWG 1260 Brownsville, Tex.	WBBC 1400 Brooklyn, N. Y.	WCHM 1370 Baltimore, Md.
KSL 1130 Salt Lake City	KXA 570 Seattle, Wash.	WBBL 1210 Richmond, Va.	WCHS 1210 Springfield, Ill.
KSMR 1200 Bakersfield, Cal.	KXL 1420 Portland, Ore.	WBDM 770 Chicago, Ill.	WCO 810 Minneap., Minn.
KSO 1380 Clarinda, Iowa	KXO 1500 El Centro, Cal.	WBDR 1300 Brooklyn, N. Y.	WCDA 1350 New York City
KSOO 1110 Sioux Falls, S. D.	KXRO 1310 Aberdeen, Wash.	WBFB 1200 Ark. City, Kan.	WCFL 970 Chicago, Ill.
KSTP 1460 St. Paul, Minn.	KXYZ 1420 Houston, Texas	WBGM 1410 Bay City, Mich.	WCGU 1400 Brooklyn, N. Y.
KTAB 560 San Francisco, Cal.	KYA 1230 San Francisco, Cal.	WBEN 960 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 Fl. 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.
KTPI 1320 Twin Falls, Ida.	RUS 664 Salvador	WBIS 1230 Boston, Mass.	WCOA 1340 Pensacola, Fla.
KTHS 1040 Hot Spgs., Ark.	TGW 570 Guatemala	WBMS 1450 Hackensack, N. J.	WCOE 880 Meridian, Miss.
KTLK 1310 Houston, Texas	TIC 900 San Jose, C. R.	WBNX 1350 New York City	WCOD 1200 Harrisburg, Pa.
KTM 780 Los Angeles, Cal.	T14NRH 948 Heredia, C. R.	WBOQ 860 New York City	WCOH 1210 Yonkers, N. Y.
KTRH 1120 Houston, Texas	VAS 585 Glance Bay, N. S.	WBOW 1310 Terre Haute, Ind.	WCRW 1210 Chicago, Ill.
KTSA 1290 San Antonio, Tex.	VOWR 675 St. Johns, N. F.	WBRC 930 Birmingham, Ala.	WCSC 1360 Charleston, S. C.
KTSM 1310 El Paso, Texas	WAAB 1410 Boston, Mass.	WBRE 1310 Wilkes-Barre, Pa.	WCSH 940 Portland, Maine
KTW 1220 Seattle, Wash.	WAAF 920 Chicago, Ill.	WBNO 920 Needham, Mass.	WDAE 1220 Tampa, Fla.
KUJ 1370 Walla Wall, Wash.	WAAM 1250 Newark, N. J.	WBT 1080 Charlotte, N. C.	WDAF 610 Kansas City, Mo.
KUOA 1390 Fayetteville, Ark.	WAAT 940 Jersey City, N. J.	WBFM 1370 Danville, Va.	WDAG 1410 Amarillo, Texas
KUSD 890 Vermillion, S. D.	WAAW 660 Omaha, Nebr.	WBZ 990 Springfield, Mass.	WDAH 1310 El Paso, Texas
KUT 1500 Austin, Texas	WABC 860 New York City	WBZA 990 Boston, Mass.	WDAY 940 Fargo, N. D.
KVI 760 Tacoma, Wash.	WABI 1200 Bangor, Maine	WCAC 600 Storrs, Conn.	WDBJ 930 Roanoke, Va.
KVL 1370 Seattle, Wash.	WABZ 1200 New Orleans, La.	WCAD 1220 Canton, N. Y.	WDBO 1120 Orlando, Fla.
KVOA 1260 Tucson, Arizona	WACO 1240 Waco, Texas	WCAE 1220 Pittsburgh, Pa.	WDEL 1120 Wilmington, Del.
KVOO 1140 Tulsa, Okla.	WADC 1320 Akron, Ohio	WCAH 1430 Columbus, Ohio	WDEV 1420 Waterbury, Vt.
KVOR 1270 Col. Sp'gs, Colo.	WAGM 1420 Presque Isle, Me.	WCAJ 590 Lincoln, Nebr.	WDGY 1180 Minneap., Minn.
KVOS 1200 Bellingh'm, Wash.	WAU 640 Columbus, Ohio	WCAL 1250 Northfield, Minn.	WDIX 1500 Tupelo, Miss.
KWCR 1310 Cedar Rapids, Ia.	WALR 1210 Zanesville, Ohio	WCAM 1280 Camden, N. J.	WDOD 1280 Chattanooga, Tenn.
KWEA 1210 Shreveport, La.	WAPI 1140 Birmingham, Ala.	WCAO 600 Baltimore, Md.	WDRC 1330 Hartford, Conn.

WDSU 1250
New Orleans, La.
WDZ 1070
Tuscola, Ill.
WEAF 660
New York City
WEAI 1270
Ithaca, N. Y.
WEAN 780
Providence, R. I.
WEAO 570
Columbus, Ohio
WERC 1290
Superior, Wis.
WEBQ 1210
Harrisburg, Ill.
WEHR 1310
Buffalo, N. Y.
WEDC 1210
Chicago, Ill.
WEDH 1420
Erie, Pa.
WEEI 590
Boston, Mass.
WEFU 830
Reading, Pa.
WEHC 1350
Emory, Va.
WEHS 1420
Cicero, Ill.
WELK 1370
Philadelphia, Pa.
WELL 1420
Battle C'k, Mich.
WENR 870
Chicago, Ill.
WEPS 1200
Worcester, Mass.
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.
WFBT 1270
Baltimore, Md.
WFDL 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.
WGBC 1430
Memphis, Tenn.
WGBF 630
Evansville, Ind.
WGBI 880
Scranton, Pa.
WGBS 1180
New York City
WGCM 1210
Gulfport, Miss.
WGCP 1250
Newark, N. J.
WCEO 1000
York, Pa.
WGES 1360
Chicago, Ill.
WGH 1310
Newsp't News, Va.
WGL 1370
Ft. Wayne, Ind.
WGN 720
Chicago, Ill.
WGR 550
Buffalo, N. Y.
WGST 890
Atlanta, Ga.
WGY 790
Schenecc'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.
WIOU 1300
Miami, Fla.
WIP 610
Philadelphia, Pa.
WIS 1010
Columbia, S. C.
WISN 1120
Milwaukee, Wis.
WIAC 1310
Johnstown, Pa.
WIAG 1060
Norfolk, Nebr.
WIJK 1310
Elkhart, Ind.
WIJAR 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.
WKBB 1380
La Crosse, Wis.
WKBI 1420
Cicero, Ill.
WKBN 570
Youngstown, O.
WKBO 1450
Jersey City, N. J.
WKBS 1310
Galesburg, Ill.
WKBV 1500
Connerville, Ind.
WKBW 1480
Buffalo, N. Y.
WKBB 1500
Ludington, Mich.
WKJC 1200
Lancaster, Pa.
WKRC 550
Cincinnati, Ohio
WKY 900
Oklahoma City
WKZO 590
Kalamazoo, Mich.
WLAC 1470
Nashville, Tenn.
WLAP 1010
Louisville, Ky.
WLB 1250
St. Paul, Minn.
WLBC 1310
Muncie, Ind.
WLB 1420
Kansas City, Mo.
WLBG 1200
Ettrick, 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.
 WLOE 1500
 Boston, Mass.
 WLS 870
 Chicago, Ill.
 WLTH 1400
 Brooklyn, N. Y.
 WLVA 1370
 Lynchburg, Va.
 WLW 700
 Cincinnati, Ohio
 WLWL 1100
 New York City
 WMAC 570
 Syracuse, N. Y.
 WMAK 1040
 Buffalo, N. Y.
 WMAL 630
 Washington, D.C.
 WMAQ 670
 Chicago, Ill.
 WMAZ 1180
 Macon, Ga.
 WMBA 1500
 Newport, R. I.
 WMBC 1420
 Detroit, Mich.
 WMBD 1440
 Feoria Hghts, Ill.
 WMBG 1210
 Richmond, Va.
 WMBH 1420
 Joplin, Mo.
 WMBI 1080
 Chicago, Ill.
 WMBQ 1310
 Auburn, N. Y.
 WMBQ 1500
 Brooklyn, N. Y.
 WMBR 1370
 Tampa, Fla.
 WMC 780
 Memphis, Tenn.
 WMCA 570
 New York City
 WMIL 1500
 Brooklyn, N. Y.
 WMMN 890
 Fairmont, W. Va.
 WMP 1500
 Lapeer, Mich.
 WMRJ 1210
 Jamaica, N. Y.
 WMSG 1350
 New York City
 WMT 600
 Waterloo, Iowa
 WNAC 1230
 Boston, Mass.
 WNAD 1010
 Norman, Okla.
 WNAX 570
 Yankton, S. D.
 WNB 1500
 Bingham't'n, N. Y.
 WNBH 1310
 New B'd'd, Mass.
 WNB 1200
 Washington, Pa.
 WNB 1430
 Memphis, Tenn.
 WNBW 1200
 Carbondale, Pa.
 WNBX 1200
 Springfield, Vt.
 WNBZ 1290
 Sar'n'e L'ke, N. Y.

WNJ 1450
 Newark, N. J.
 WNOX 560
 Knoxville, Tenn.
 WNYC 570
 New York City
 WOA 1190
 San Antonio, Tex.
 WOAX 1280
 Trenton, N. J.
 WOB 580
 Charle's'n, W. Va.
 WOC 1000
 Davenport, Iowa
 WOCL 1210
 Jamestown, N. Y.
 WODA 1250
 Paterson, N. J.
 WODX 1410
 Mobile, Ala.
 WOI 640
 Ames, Iowa
 WOKO 1430
 Albany, N. Y.
 WOL 1310
 Washington, D.C.
 WOMET 1210
 Manitowoc, Wis.
 WOOD 1270
 Gr. Rapids, Mich.
 WOPI 1500
 Bristol, Tenn.
 WOQ 1300
 Kansas City, Mo.
 WOH 710
 Newark, N. J.
 WORC 1200
 Worcester, Mass.
 WOS 630
 Jeff'n's City, Mo.
 WOW 1130
 New York City
 WOW 590
 Omaha, Nebr.
 WOWO 1160
 Ft. Wayne, Ind.
 WPAD 1420
 Paducah, Ky.
 WPA 1010
 New York City
 WPAW 1210
 Pawtucket, R. I.
 WPPC 560
 Chicago, Ill.
 WPC 810
 New York City
 WPFN 1500
 Philadelphia, Pa.
 WPG 1100
 Atl'nt'city, N.J.
 WPOE 1370
 Patchogue, N. Y.
 WPOR 780
 Norfolk, Va.
 WPRO 1210
 Providence, R. I.
 WPSC 1230
 State College, Pa.
 WPTF 680
 Raleigh, N. C.
 WQAM 560
 Miami, Fla.
 WQAN 880
 Scranton, Pa.
 WQAO 1010
 New York City
 WQBC 1360
 Vicksburg, Miss.

WQDM 1370
 St. Albans, Vt.
 WQDX 1210
 Thomasville, Ga.
 WRAC 1370
 Williamsport, Pa.
 WRAM 1370
 Wilmington, N.C.
 WRAW 1310
 Reading, Pa.
 WRAX 1020
 Philadelphia, Pa.
 WRBJ 1370
 Hattiesburg, Miss.
 WRBL 1200
 Columbus, Ga.
 WRBQ 1210
 Greenville, Miss.
 WRBX 1410
 Roanoke, Va.
 WRC 950
 Washington, D.C.
 WRDO 1370
 Augusta, Maine
 WRDW 1500
 Augusta, Ga.
 WREC 600
 Memphis, Tenn.
 WREN 1220
 Lawrence, Kans.
 WRHM 1250
 Minneap., Minn.
 WRJN 1370
 Racine, Wis.
 WRNY 1010
 New York City
 WROL 1310
 Knoxville, Tenn.
 WRRI 1280
 Dallas, Texas
 WRUF 830
 Gainesville, Fla.
 WRVA 1110
 Richmond, Va.
 WSAI 1330
 Cincinnati, Ohio
 WSAJ 1310
 Grove City, Pa.
 WSAN 1440
 Allentown, Pa.
 WSAR 1450
 Fall River, Mass.
 WSAZ 580
 Hunt'gton, W. Va.
 WSB 740
 Atlanta, Ga.
 WSBC 1210
 Chicago, Ill.
 WSBT 1230
 South Bend, Ind.
 WSEN 1210
 Columbus, Ohio
 WSFA 1410
 Montgomery, Ala.
 WSIX 1210
 Springfield, Tenn.
 WSJS 1310
 Winst.-Sal., N. C.
 WSM 650
 Nashville, Tenn.
 WSM 1320
 New Orleans, La.
 WSMK 1380
 Dayton, Ohio
 WSOC 1210
 Gastonia, N. C.
 WSPA 1420
 Spartanburg, S.C.

WSPD 1340
 Toledo, Ohio
 WSUI 880
 Iowa City, Iowa
 WSUN 620
 St. Peters'bg, Fla.
 WSVS 1370
 Buffalo, N. Y.
 WSYB 1500
 Rutland, Vt.
 WSYR 570
 Syracuse, N. Y.
 WTAD 1440
 Quincy, Ill.
 WTAG 580
 Worcester, Mass.
 WTAM 1070
 Cleveland, Ohio
 WTAQ 1330
 Eau Claire, Wis.
 WTAR 780
 Norfolk, Va.
 WTAW 1120
 College Sta., Tex.
 WTAX 1210
 Springfield, Ill.
 WTBO 1420
 Cumberland, Md.
 WTEL 1310
 Philadelphia, Pa.
 WTFI 1450
 Toocoo, Ga.
 WTIC 660-1060
 Hartford, Conn.
 WTJS 1310
 Jackson, Tenn.
 WTMJ 620
 Milwaukee, Wis.
 WTOC 1260
 Savannah, Ga.
 WTSL 1310
 Laurel, Miss.
 WWAE 1200
 Hammond, Ind.
 WWJ 920
 Detroit, Mich.
 WWL 850
 New Orleans, La.
 WWNC 570
 Asheville, N. C.
 WWRL 1500
 WWSW 1500
 Pittsburg, Pa.
 WWVA 1160
 Wheeling, W. Va.
 WXYZ 1240
 Detroit, Mich.
 XEA 1000
 Guad'l'jara, Mex.
 XEB 1030
 Mexico City
 XEC 1000
 Toluca, Mexico
 XED 965
 Reynosa, Mexico
 XEE 1000
 Oaxaca, Mexico
 XEFA 1250
 Mexico City
 XEFB 1270
 Monterrey, Mex.
 XEFC 1050
 Merida, Mex.
 XEFD 1020
 Tijuana, Mex.
 XEFE 1000
 Laredo, Mexico

XEFI 1000 Chihuahua, Mex.	XEN 711 Mexico City	XETC 1000 Jalapa, Mex.	XEY 1000 Merida, Mexico
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 805 Aguascalntes, M.
XEH 1132 Monterrey, Mex.	XEQ 750 Juarez, Mexico	XETQ 1230 Mexico, Mex.	XFD 875 Chihuahua, Mex.
XEI 1000 Morelia, Mexico	XER 735 Villa Acuna, Mex.	XETA 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 860 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.

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		150	CMBG	1070
	1000	XEH	1132		30	CMBI	1405
	500	XET	690		20	CMBL	1500
OAXACA				Havana W-23	30	CMBN	1405
Oaxaca, Oak. AA-14	105	XEE	1000		50	CMBO	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		100	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

SHORT WAVE STATIONS OF NORTH AMERICA

Keys.	Call	Location	Keys.	Call	Location	Keys.	Call	Location
1544	W2XDA	New York	3184	KQX	Los Angeles	9570	W1XAZ	Springfield, Mass.
1584	W10XAL	New York		KQT	Los Angeles	9580	W3XAU	Byberry, Pa.
	W10XAO	New York	3244	KFR	Seattle	9700	WMI	Deal, N. J.
1598	WCF	New York		WJE	Seattle	9750	WNC	Deal, N. J.
	WKDT	Detroit	3256	W9XL	Chicago	9830	T14NRH	Costa Rica
	KGKM	Beaumont, Tex.	4105	NAA	Arlington, Va.	9930	W2XU	Long Island City
	AGPA	Seattle	4116	WOO	Deal, N. J.	10000	CM2LA	Havana
1604	W2XCU	Amperre, N. J.	4610	HIX	Santa Domingo	10410	KEZ	Bolinas, Calif.
	W2XCD	Passaic, N. J.	4700	W1XAB	Portland, Me.	10540	WLO	Lawrence, N. J.
	W1XAU	Boston	4750	WOO	Deal, N. J.	10710	TGW	Guatemala
	W3XJ	Wheaton, Md.		WXD0	Ocean Gate, N. J.	11530	CGA	Drummondville, Que.
	W2XAD	Schenectady	4795	W9XAM	Elgin, Ill.	11720	CJRX	Middle Church, Man.
	W2XAF	Schenectady		W3XZ	Washington, D. C.	11763	XDA	Mexico City
	W9XX	Cartersville, Mo.		W9XL	Chicago	11780	VE9DR	Drummondville, Que.
	W5XN	Dallas	4800	W2XV	Long Island City	11800	W2XAL	New York
1608	W9XAL	Chicago	4975	W2XAV	Long Island City		W9XF	Chicago
	W2XY	Newark	5500	W2XBH	Brooklyn		VE9GW	Bowmanville, Ont.
1662	WMP	Frammingham, Mass.	5550	W8XJ	Columbus	11840	W2XE	Jamaica, N. Y.
1684	W KDX	New York	5710	VE9CL	Winnipeg		W9XAA	Chicago
	KOX	Honolulu	5770	HIX	Santa Domingo	11860	VE9CA	Calgary
1712	KGKM	Beaumont, Tex.	5860	XDA	Mexico City	11880	W8XK	Pittsburgh
	WKDT	Detroit	6000	HRB	Honduras		W9XF	Chicago
	WEY	Boston	6020	W9XF	Chicago		W2XAL	New York
	WPDB	Chicago	6100	W2XBR	New York	12045	NAA	Arlington
	WPDC	Chicago	6030	VE9CA	Calgary		NSS	Annapolis
	WPDD	Chicago	6040	W9XAQ	Chicago	12850	W2X0	Schenectady
	W KDU	Cincinnati		W2XAL	New York		W2XCU	Amperre, N. J.
	KSW	Berkeley, Cal.	6060	W8XAL	Cincinnati		W00	Deal, N. J.
	KUP	Dallas		W3XAU	Byberry, Pa.		W2XD0	Ocean Gate, N. J.
	WMDZ	Indianapolis	6070	VE9CS	Vancouver		W9XL	Anoka, Minn.
	KGPC	St. Louis	6080	W2XCX	Newark	13400	WND	Deal Beach, N. J.
	KGQY	San Antonio		W9XAA	Chicago	14150	KKZ	Bolinas, Calif.
	KGJN	Pasadena	6095	VE9GW	Bowmanville, Ont.	14480	W8XK	E. Pittsburgh
1715	W9XAN	Elgin, Ill.	6100	W3XAL	Bound Brook, N. J.		WNC	Deal, N. J.
	W6XK	Los Angeles		VE9CF	Halifax	14620	WMI	Deal, N. J.
2392	W10XAL	Portable	6110	VE9CG	Calgary		XDA	Mexico City
	W10XAO	Portable	6120	W2XE	New York	15000	CM6XJ	Tinicum, Cuba
	W2XCZ	Portable	6140	W8XK	E. Pittsburgh	15210	W8XK	Pittsburgh
2398	W2XCU	Amperre, N. J.	6155	W9XAL	Chicago	15250	W2XAL	New York
	W2XAD	Schenectady		VE9CL	Winnipeg	15280	W2XE	Jamaica, N. Y.
	W2XAF	Schenectady		W2XDE	New York	15340	W2XAD	Schenectady
	WPDT	Kokomo, Ind.	6170	HRB	Honduras	16060	NAA	Arlington
2410	WCK	Belle Isle, Mich.	6280	WVV	Washington	16300	WLO	Lawrence, N. J.
	WRDR	Grete Pls., Mich.	6335	VE9AP	Drummondville, Que.	17110	W00	Deal, N. J.
	WMO	Highland Pk., Mich.	6425	W3XAL	Bound Brook, N. J.		W2XD0	Ocean Gate, N. J.
	WPDW	Washington, D. C.		W2XCU	Amperre, N. J.	17300	W2XK	Schenectady
	KGPD	San Francisco		W9XL	Anoka, Minn.		W8XL	Dayton
	KGPG	Vallejo, Calif.	6515	W00	Deal, N. J.		W6XAJ	Oakland
	W3XAG	Baltimore		W4XG	Miami		W7XA	Portland, Ore.
2416	W PDI	Columbus	6675	TGW	Guatemala		W7XC	Seattle
	W PDE	Louisville	6753	WND	Deal, N. J.		W2XCU	Amperre, N. J.
	KGPB	Minneapolis		XFD	Mexico City		W9XL	Anoka, Minn.
	W PDI	Passaic, N. J.	6840	CFA	Drummondville, Que.	17780	W8XK	Pittsburgh
	W PDS	St. Paul	6860	KEL	Bolinas, Calif.	17850	W2XAO	New Brunswick, N. J.
	W PDA	Tulare, Cal.	7060	XFA	Mexico City	18120	W9XAA	Chicago
2422	W MJ	Buffalo	7370	X26A	N. Laredo, Mex.	18170	CGA	Drummondville, Que.
	KGPE	Kansas City	7520	CGE	Calgary	18350	WND	Deal Beach, N. J.
2440	W PDI	Flint, Mich.	8400	VBS	Glace Bay, N. S.	19220	WNC	Deal, N. J.
	W NDA	Miami	8630	W00	Deal, N. J.	19340	W2XAC	New York
	W PDP	Philadelphia		W2XDO	Ocean Gate, N. J.	19850	WMI	Deal, N. J.
	W3XB	Portable	8650	W3XE	Baltimore	20500	W9XF	Chicago
2452	WBRH	Cleveland		W2XV	Long Island City	21130	W2XAO	New Brunswick, N. J.
	KGPP	Portland, Ore.		W8XAG	Dayton	21400	WLO	Lawrence, N. J.
	W PDK	Milwaukee		W6XN	Oakland	21420	W2XDJ	Deal, N. J.
	W KGP	Oklahoma City		W4XG	Miami	21429	XFA	Mexico City
2458	W PDG	Youngstown, O.		W3XX	Washington	21469	W2XAL	New York
2470	KG0Z	Cedar Rapids		W2XCU	Amperre, N. J.	21540	W8XK	Pittsburgh
	W R D Q	Toledo		W9XL	Chicago	23000	W2XAW	Schenectady
2538	W6XAF	Sacramento	8690	W2XAC	Schenectady	24000	W6XAQ	San Mateo, Calif.
2758	VE9C1	London, Ont.	8872	NAA	Arlington	25700	W2XBC	New Brunswick, N. J.
2833	W6XAN	Los Angeles	9091	XFD	Mexico City		W3XA	Philadelphia
	W7XAB	Spokane	9330	CGA	Drummondville, Que.	27800	W6XD	Palo Alto, Calif.
	W2XAO	New York	9350	CM2MK	Havana	31000	W8XI	Pittsburgh
	VE9AK	Red Deer, Alta.	9375	WSXAO	Detroit	34600	W2XBC	New Brunswick, N. J.
2855	W1XY	Hilton, N. H.		TGX	Guatemala	41000	W8XI	E. Pittsburgh
3076	W9XL	Chicago	9530	W2XAF	Schenectady	43500	W1XG	Boston
	W00	Deal, N. J.	9560	W9XA	Denver		W2XBT	New York
				NAA	Arlington	51400	W2XBC	New Brunswick, N. J.

THE CUBAN EXPERIMENTALS

Call	Owner	Address	Location	Keys.	Meters	Watts
CM-1FM	Julian Machado	Aramburu numero 5	Gua'ajay	13950	21.5	100
CM-2AR	Alfredo Rosell	Campanario numero 145	Habana	14347	20.9	7.5
CM-2AY	Cesar Fernandez	Real 101	Marianao	7220	41.5	7.5
CM-2CF	Victor Coullard	Camp. Columbia 30-B	Marianao	7257	41.2	7.5
CM-2FC	Fernando Capestany	Godínez "E" Buen Vista	Marianao	7152	41.9	7.5
CM-2GR	Gustavo Rodriguez	19 numero 494, Vedado	Habana	7220	41.5	7.5
CM-2GU	Luis Guyon	Santa Emilia 112, Santos Suarez	Habana	7135	42	20
CM-2GZ	Jorge L. Gonzalez	Maximo Gomez 49, altos	Habana	7300	41	7.5
CM-2IQ	Jose Fernandez	Real 89	Marianao	7257	41.2	7.5
CM-2JM	Justo Mabia	Sitios numero 65	Habana	7152	41.9	7.5
CM-2JT	Jose A. Terry	B entre 18 y Fuentes	Marianao	14277	21	75
CM-2KW	Carlos Alburquerque	Goicuria numero 24, Vibora	Habana	7152	41.9	7.5
CM-2LA	Enrique Lasanta (C.L.R.)	8 entre 21 y 23, Vedado	Habana	7000	42.8	250
CM-2MD	Marino Diaz Quinones	Padre Varela numero 120	Habana	7300	41	20
CM-2MK	R. V. Watters	Avenida de Italia 29	Habana	7170	41.8	100
CM-2MM	Antonio Sarasola	Emilio Sola 5, Pogolotti	Marianao	7135	42	30
CM-2QY	Alberto Giro	3a entre 14 y 16	Marianao	7220	41.5	15
CM-2RA	Rizoberto Alvarez	San Jose numero 216	Habana	14277	21	7.5
CM-2RC	Radio Club de Cuba	Genios 23 altos	Habana	7220	41.5	15
CM-2RZ	Nestor Rodriguez	Cardenas numero 55	Habana	7152	41.9	7.5
CM-2SC	Jose del Salto	General Suarez numero 126	Habana	13950	21.5	250
CM-2SF	Eusebio Solis	Artes 93, Casa Blanca	Habana	7207	41.6	7.5
CM-2SH	Silvio Hernandez	H numero 181, Vedado	Habana	7170	41.8	7.5
CM-2SV	Bergio Valdes Rodriguez	Aguiar numero 19-A	Habana	7135	42	10
CM-2VJ	Eliceer Valdes Mayo	Factoria numero 27, altos	Habana	7220	41.5	7.5
CM-2W A	Ezequiel Santos	Cristina numero 12	Habana	14140	21.2	7.5
CM-2W B	Pedro Madiedo	Santa Rosa A	Marianao	7135	42	10
CM-2WV	Amadeo Saenz de Calahorra	Marina numero 2	Habana	7120	42.1	50
CM-2XA	Alfredo Rosell	Campanario numero 145	Habana	7292	41.1	150
CM-2XC	Alexander Strang	M. F. de Castro s-n	Habana	7220	41.5	5
CM-2XK	Raul Karman	Rayo 67	Habana	7135	42	15
CM-8AZ	Ernesto V. Figueroa	Independencia 130	Matanzas	7257	41.2	7.5
CM-8CX	Jose Alfonso	Diago numero 73	Colon	14277	21	50
CM-8EA	Eleazar A. Togorce	Domingo Mu'ica numero 61	Matanzas	7220	41.5	7.5
CM-8EN	Escuela Normal	Tello Lamar 41	Matanzas	7257	41.2	7.5
CM-8FC	Felix U. Casas	Emilio Blanchet numero 19	Matanzas	7207	41.6	7.5
CM-8FL	Francisco Diaz Agramonte	Santa Catalina 16	Pedro Betancourt	7170	41.8	7.5
CM-8IM	Felix U. Casas	Tello Lamar 60	Matanzas	7257	41.2	7.5
CM-8NI	Julio C. Oyarzabal	Marti numero 52	Pedro Betancourt	7300	41	15
CM-8PM	Pastor Morejon	Maceo numero 101	Matanzas	7135	42	10
CM-8RY	Bernabe It. de la Torre	General Betancourt numero 105	Matanzas	14277	21	7.5
CM-8BX	Luis D. Elizondo	Hourutiner numero 23	Cienfuegos	7292	41.1	10
CM-8CP	Carlos M. Carbonell	Gacell numero 41	Cienfuegos	7135	42	20
CM-8DW	Eduardo Terry	San Carlos 197	Cienfuegos	7300	41	10
CM-8SG	Remberto Sanchez	Candelaria numero 16	Santa Clara	7220	41.5	7.5
CM-7CX	Leonard B. Fox	Central Florida	Florida	7220	41.5	15
CM-7DW	M. L. de Quintana	Central Tacaio	Tacaio	14277	21	5
CM-7JQ	Leonard B. Fox	Central Florida	Florida	14277	21	5
CM-7SH	Domingo Caynaries	Augusto Arango 31	Nuevitas	7135	42	150
CM-8AZ	James Connor Blume	Estacion Naval	Quantanamo	7257	41	30
CM-8BY	Alberto Ravelo	Ave. Manduluy ent. 1 y 3	Santiago de Cuba	7300	41	30
CM-8ES	Guillermo Polanco	M. Corona, Baja 16	Santiago de Cuba	7000	42.8	100
CM-8MN	Melchor Aguero	General Escario numero 111	Santiago de Cuba	7135	42	50
CM-8OL	Luis C. Greco	San Bartolme 32	Santiago de Cuba	7300	41	50
CM-8UF	Earle D. Byer	Estacion Naval	Quantanamo	14277	21	300
CM-8YB	B. V. Greer	Estacion Naval	Quantanamo	7300	41	100

CANADIAN HIGH FREQUENCY BROADCASTING

Call	Owner	Location	Kcyl.	Meters
VE9AK	Alberta Pacific Grain Company	Red Deer, Alta.	2830	105.9
VE9BA	Canadian National Railways	Montreal, Que.	6130-11705	48.9-25.6
VE9BJ	C. A. Munro, Ltd.	St. John, N. B.	6090	49.23
VE9CA	Western Broadcasting Co., Ltd.	Calgary, Alta.	6030-11860	49.75-25.3
VE9CF	Borrett for CHNS	Halifax, N. S.	6050	49.50
VE9CG	Calgary Herald, Limited	Calgary, Alta.	6110	49.10
VE9CL	James Richardson & Sons	Middlechurch, Manitoba	6150	48.8
VE9CS	United Church of Canada	Vancouver, B. C.	6070	40.42
VE9DN	Canadian Marconi Co.	Montreal, Que.	6005-9580	49.9-31.3
VE9DR	Canadian Marconi Co.	Drummondville, Quebec	7190	25.47
VE9QW	Gooderham & Worts, Limited	Bowmanville, Ontario	6095	40.22

CANADIAN STATIONS TELEVISION

Call	Owner	Location	Kcyl.	Meters
VE9AF	Jas. A. Ogilby's, Ltd.	Montreal, Que.	2850-2950	105.3-101.7
VE9AR	A. R. MacKenzie	Saskatoon, Sask.	2850-2950	105.3-101.7
VE9BZ	Radio Service Engineers	Vancouver, B. C.	2750-2850	109.1-105.3
VE9DS	Canadian Marconi Co.	Montreal, Que.	2100-2200	142.9-136.3
VE9EC	La Presse Publishing Co., Ltd.	Montreal, Que.	2004-2100	149.7-142.9
VE9ED	Dr. Jos. L. P. Landry	Mont Joli, Que.	2850-2950	105.3-101.7
VE9RM	Hogers Majestic Corp., Limited	Toronto, Ont.	2004-2100	149.7-142.9

FAVORITE PROGRAMS

Time	Station	Dials	Feature	Time	Station	Dials	Feature
DAILY				WEDNESDAY			
	WJJD		8:00-8:15				
SUNDAY				THURSDAY			
MONDAY				FRIDAY			
TUESDAY				SATURDAY			

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 WFAF in New York. First we must ascertain the frequency for this station. Look it up under WFAF 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 WFAF is 660. Now we turn to 660 kilocycles in the Index by Frequencies and Dial Numbers. Here we find that WFAF is one of the two stations which have been assigned the 660 keys, 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 kcys. and at that point KFI 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: KPO at San Francisco and WPTF 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

590 kilocycles 508.2 meters

KHJ	1900	Spokane, Wash.
WCAJ	500	Livingside, N.Y.
WEEI	500	Boston, Mass.
WOW	100	Omaha, Neb.
WJBC	1000	Barreton Springs, Mich.

76 74

Louis Warner, Inc.
Pebasque Western University
Tolson Elec. Illuminating Co.
Woodhouse of the World
Edmund Missionary College

600 kilocycles 499.7 meters

CFCH	250	Hoquella Falls, Oat.
ERFJ	800	Lawrence, Wis.
WFSJ	100	San Diego, Calif.
WCAO	500	Baltimore, Md.
WENW	250	Albany, N.Y.
WGLN	500	Lawrenceburg, Tenn.
WEEC	500	Meritt, Wis.
WJIC	100	Madison, Conn.

75 73

Arthur Power & Paper Co.
Blaine S. E. Adams
Alison Radio Co., Inc.
Monterey Radio Co., Inc.
Reich College
Waggoner School of Music
W.R.C., Inc.
Travelers Insurance Co.

610 kilocycles 491.5 meters

ERFC	1000	San Francisco, Calif.
WDAF	1000	Kansas City, Mo.
WJF	500	Philadelphia, Pa.
WTO	1000	Kansas City, Mo.

74 72

Don Lee, Inc.
Kansas City Star Co.
Rayburn Broadcasting Co., Inc.
Cleghorn Bros., Inc.
Gaily School of Christianity

620 kilocycles 483.6 meters

REAP	500	Phoenix, Ariz.
ERW	1000	Springfield, Ill.
WDAE	1000	Tampa, Fla.
WDDJ	1000	Orlando, Fla.
WJLZ	500	Dover, Pa.
WJMJ	1000	Millwaukee, Wis.

73 71

Radiological Equipment Co.
Chicago Publishing Co.
Tampa Publishing Co.
Rollins College, Inc.
Thompson L. Cournoyer
Milwaukee Journal

630 kilocycles 475.9 meters

CJCT	500	Victoria, B. C.
CJCF	500	Yukon, Sask.
CJCA	500	Montreal, B. C.
CYR	500	Marquette, Mich.
WJLW	500	Winnipeg, Man.
WJLW	500	Winnipeg, Man.
WJLW	500	Winnipeg, Man.
WOS	500	Jefferson City, Mo.

72 70

Historical Mining Ass'n.
Winning Grain Exchange
Yukon National Railways
Carleton Place
Stephen College
Transit on the Air, Inc.
W. L. Lester Co.
State Marketing Bureau

640 kilocycles 468.5 meters

EPJ	500	Los Angeles, Calif.
WJLJ	500	Columbus, Ohio

70 68

Earle C. Anthony, Inc.
American Insurance Union

650 kilocycles 461.3 meters

WSM	5000	Nashville, Tenn.
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70 68

National Life & Accident Ins. Co.

660 kilocycles 454.3 meters

WLAW	500	Omaha, Neb.
WFAF	5000	New York City

69 67

Omaha Grain Exchange
National Broadcasting Co., Inc.

670 kilocycles 447.5 meters

WMAO	1000	Chicago, Ill.
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68 66

Chicago Daily News, Inc.

680 kilocycles 440.9 meters

RPO	5000	San Francisco, Cal.
WPTF	5000	Batavia, N. C.

67 65

Hale Bros. & The Chronicle
Parsons Life Insurance Co.



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 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. 2A0, Washington, D. C.

J. E. SMITH, President,
National Radio Institute,
Dept. 2A0, 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