

THE APRIL 1933

RADIO INDEX

THE ALL-WAVE RADIO MAGAZINE



25^c

Cutting Out Line Noise

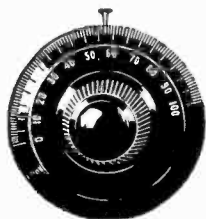
Building a Filtering Device

Amending the DX Rules

Short Wave Stations of the World by
Frequencies and Wave Lengths

NO. 68

APRIL 1, 1933



RADIO INDEX

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FRED CLAYTON BUTLER

Editor and Publisher



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Technical Editor

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Short Wave Editor

NINTH YEAR

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NUMBER 68

Frontispiece—Sarah Ann McCabe

With "Singing Strings" week-days at 10:45 and 11:00 a. m. NBC-WJZ

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ADDRESS ALL CORRESPONDENCE TO CLEVELAND OFFICE

APRIL DX CALENDAR

Special Programs for Distant Listeners

A. M. time is given as the night before. Thus early Monday morning programs are listed under Sunday night. Time is given in Eastern Standard so that programs may be listed in proper sequence.

SUNDAY NIGHT

April 23rd

4:00-5:00 OAX, 790, Lima, Peru

April 30

4:00-4:30—K GAR, 137, Tucson, Ariz.

April 2nd, 9th, 16th, 23rd, 30th

12:00-1:00—WSAZ, 580, Huntington, W. Va.

12:15-1:00—KSOO, 1110, Sioux Falls, S. D.

1:00-3:00—WGES, 1360, Chicago, Ill.

MONDAY NIGHT

April 3rd, 17th

4:30-5:15—WEAO, 570, Columbus, Ohio.

April 3rd, 17th, May 1st

5:00-6:00—WAWZ, 1350, Zarephath, N. J.

April 24th

3:00-4:00—KDLR, 1210, Devils Lake, N. D.

April 3rd, 10th, 17th, 24th

12:00-2:30—WMLL, 1500, Brooklyn, N. Y.

1:00-5:00—WABZ, 1200, New Orleans, La.

1:00-5:00—WSUI, 880, Iowa City, Iowa.

2:00-4:00—KOY, 1390, Phoenix, Ariz.

3:00-4:00—CFJC, 1120, Kamloops, B. C.

5:15-5:30—WHP, 1430, Harrisburg, Pa.

TUESDAY NIGHT

April 4th, May 2nd

3:00-6:00—WOPI, 1500, Bristol, Tenn.

April 11th

2:00-3:00 WDEV, 550, Waterbury, Vt.

April 18th

2:00-3:00—WJMS, 1420, Ironwood, Mich.

April 25th

2:30-3:30—WCLO, 1200, Janesville, Wis.

April 4th, 11th, 18th, 25th

12:00-1:00—XEH, 1132, Monterrey, Mex.

5:00-6:00—KFGQ, 1310, Boone, Iowa

WEDNESDAY NIGHT

April 5th

2:00-2:30—WHBF, 1210, Rock Island, Ill.

April 19th

2:30-5:00—10-BI, 1200, Prince Albert, Sask.

April 5th, 12th, 19th, 26th

11:30-1:00—KFUO, 550, St. Louis, Mo.

12:00-1:00—WHBL, 1410, Sheboygan, Wis.

2:00-3:00—KFXJ, 1310, Grand Junction, Colo.

2:30-4:30—CKWX, 730, Vancouver, B. C.

2:30-4:30—KGFF, 1420, Shawnee, Okla.

THURSDAY NIGHT

April 6th, 20th

11:30-3:00—WMBC, 1420, Detroit, Mich.

April 20th

5:30-7:00—WRAK, 1370, Williamsport, Pa.

April 6th, 13th, 20th, 27th

12:00-2:00—WHOM, 1450, Jersey City, N. J.

12:00-2:30—WMLL, 1500, Brooklyn, N. Y.

1:00-2:00—WENC, 1420, Americus, Ga.

2:00-3:00—CFAC, 690, Calgary, Alta.

FRIDAY NIGHT

March 31st

2:00-4:00—10-BQ, 1200, Brantford, Ont.

4:00-4:30—K GAR, 1370, Tucson, Ariz.

4:00-6:00—WOW, 1130, New York City.

March 31st, April 14th

1:00-5:00—KASA, 1210, Elk City, Okla.

April 7th, 21st

4:00-5:00—XES, 1055, Tampico, Mex.

April 14th

2:00-4:00—WHET, 1210, Troy, Ala.

4:00-6:00—KFBI, 1050, Abilene, Kans.

April 21st

5:00-6:00—WJBU, 1210, Lewisburg, Pa.

April 7th, 14th, 21st, 28th

12:30-1:30—WCAJ, 590, Lincoln, Neb.

1:00-2:00—CFCN, 985, Calgary, Alta.

1:00-3:00—CKCL, 580, Toronto, Ont.

1:30-3:30—KGEK, 1200, Yuma, Colo.

4:30-5:00—CMJH, 1150, Ciego de Avila, Cuba

SATURDAY NIGHT

April 1st

12:00-2:00—CMCH, 1405, Havana, Cuba.

12:00-4:00—WRBX, 1410, Roanoke, Va.

1:00-2:00—CMCY, 1325, Havana, Cuba.

1:30-2:30—CHGS, 1120, Summerside, P. E. I.

1:30-2:30—WTAG, 580, Worcester, Mass.

2:00-3:00—CHML, 880, Hamilton, Ont.

2:00-3:00—CHWK, 665, Chilliwack, B. C.

2:30-4:30—KXO, 1500, El Centro, Calif.

3:00-5:00—KPCB, 650, Seattle, Wash.

April 1st, 8th

1:00-5:00—WJEL, 1210, Hagerstown, Md.

April 1st, 15th

2:00-4:00—10-AB, 1200, Moose Jaw, Sask.

3:00-5:00—10-AT, 1055, Trail, B. C.

April 8th, 22nd

1:00-3:00—KUSD, 890, Vermilion, S. D.

April 15th

2:00-3:00—WTOC, 1260, Savannah, Ga.

April 22nd

3:00-4:00—WFAS, 1210, White Plains, N. Y.

April 29th

12:00-4:00—WIBW, 580, Topeka, Kans.

April 1st, 8th, 15th, 22nd, 29th

9:00-2:00—WWRL, 1500, Woodside, N. Y.

12:00-1:00—WGBI, 880, Scranton, Pa.

12:00-1:00—WJBK, 1370, Detroit, Mich.

12:00-1:30—WWVA, 1160, Wheeling, W. Va.

12:00-2:00—WCAH, 1430, Columbus, Ohio.

12:00-3:00—CMCD, 925, Havana, Cuba.

12:30-3:00—WBBZ, 1200, Ponca City, Okla.

1:00-1:30—WKY, 900, Oklahoma City, Okla.

1:00-2:00—KQV, 1380, Pittsburgh, Pa.

1:00-2:00—KTPI, 1240, Twin Falls, Idaho

1:00-2:00—WGBF, 630, Evansville, Ind.

1:00-3:00—KRLD, 1040, Dallas, Texas.

1:00-3:00—WGES, 1360, Chicago, Ill.

1:00-3:30—WOW, 590, Omaha, Neb.

1:00-4:00—KGU, 750, Honolulu, T. H.

1:15-2:30—WOMT, 1210, Manitowoc, Wis.

1:30-3:00—KMAC, 1370, San Antonio, Texas.

2:00-3:00—CMGE, 1337, Cardenas, Cuba.

2:00-4:00—KFEL, 920, Denver, Colo.

2:00-4:00—WWAE, 1200, Hammond, Ind.

2:00-5:00—WMMN, 890, Fairmont, W. Va.

2:30-4:30—CKWX, 730, Vancouver, B. C.

2:30-5:00—10-BI, 1200, Prince Albert, Sask.

3:00-5:00—CFCT, 630, Victoria, B. C.

3:00-4:00—KDB, 1500, Santa Barbara, Calif.

3:00-4:00—KFXX, 1210, San Bernardino, Calif.

3:00-4:00—KGER, 1360, Long Beach, Calif.

3:00-4:00—KXL, 1420, Portland, Ore.

3:00-5:00—CKOV, 1200, Kelowna, B. C.

3:00-6:00—KGCX, 1310, Wolf Point, Mont.

4:00-6:00—KVOA, 1260, Tucson, Ariz.

4:00-6:00—XFB, 840, Jalapa, Mex.

MINIMIZING the *Noise* NUISANCE

• • • *By the* TECHNICAL EDITOR

IT is next to impossible to distinguish between the many forms of static which crash from our loud speakers. Natural static is quite beyond our control. Inductive, or "man-made" static is elusive, for, like natural static, it is picked up by the antenna and ground wires. But it can be controlled to a certain extent. Another important source of radio noise is in the 110-volt power line leading directly into the receiver. Battery operated sets, obviously, are free from line interference, but it is the a.c. set that gets every known form of static and noise.

The problem of noise elimination in a.c. and d.c. receivers has been attacked by most radio engineers and scientists. Progress has been made in devising new antenna systems which filter out some inductive and natural static before it reaches the radio set. But, in this discussion we are concerned with the noise that originates in the source of electrical power that operates the receiver. It seems to be more practicable and possible to conquer power-line noises than to eliminate other forms of static.

Power line noises account for more static than most people realize. Electric light lines that lead directly into a.c. or d.c. sets are a part of a vast system used for the transmission of electrical energy. The wires collect stray oscillations which appear in the form of radio interference or static noises. In the congested areas, such as built-up districts where apartment houses, hotels, office buildings, and others abound, these power lines are connected to electrical apparatus and devices that are operated by the opening and closing of contacts.

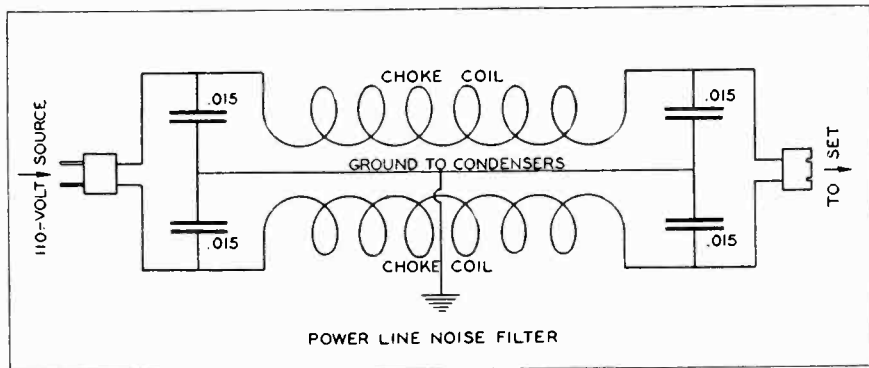
When a contact is made or broken

a heavy inductive surge of current takes place; sparks are produced; waves of high-frequency and damped oscillations occur; and there flows out over the line a radio-frequency current that is detected in all radio sets as a quick, sharp crash of static noise. The intensity of the flash when the electric contact is broken depends upon the amperage used in the apparatus, and this controls the strength of the surge over the wires and the degree of noise which is heard.

Radio receivers made for operation on 110-volt electric lines are equipped with filter devices. But these are particularly for the purpose of smoothing hum and ripple from the rectified current within the set so as to make the set humless. But such filters are



Gertrude Niesen, exotic young singer and impersonator. On the CBS Saturday at 10:45 p. m. and with Columbia Revue Monday and Friday at 10 p. m. EST.



designed for the elimination of 60-cycle hum; they do not take into account stray surges coming into the set over the power line at a much higher frequency.

Choking the H. F. Noise

The problem, then, is to provide additional and external filtering devices that will effectively block the higher frequency noise oscillations, but still permit the 60-cycle alternating current needed for the operation of the set to pass unmolested or unchanged in characteristics. While it is impossible, of course, to block out all noise coming over the power line, it is practicable to reduce the intensity of all, and totally to eliminate much. This is due to the inductive reactance of a coil of wire, called a choke, when it is placed in the power lines. Reactance is the resistance offered to the flow of an alternating current by a coil, and the larger it is the greater will be its reactance. A low frequency current, such as the 60-cycle a.c. source, will flow through a coil that effectively blocks currents of a higher frequency. Small coils, which are used in short wave work, choke back high frequencies very easily, while much larger coils are needed to control the low frequencies.

Power-line noises are created by frequency cycles much higher than the 60 cycles used in alternating current in the line. It is possible, then, to use choke coils of less reactance

than would be required to block the 60-cycle current. Therefore, no resistance to the flow of power for the operation of the receiver is introduced, provided the d.c. resistance of the coil in ohms is held down by using a wire of sufficient size. But, since a coil of fixed size must be used, it is likely that some noise surges will leak through, for these coils cannot be tuned so easily only to the 60-cycle alternating current.

If we provide a filtering device constructed of choke coils and by-pass condensers, which will permit slowly alternating currents to pass while rapidly oscillating currents are blocked or absorbed by the reactive resistance of the coil and reflected back into the power line, we take a step toward the reduction of noise caused by sudden changes produced by the opening and closing of circuits when elevators, light switches, refrigerators, fans, motors, cleaners, and other types of electrical machinery are operated.

Building Your Filter

The filter described herewith for RADEX readers consists of two choke coils, each connected in one of the leads of the a.c. power line between the lighting socket and the radio receiver. Each end of a coil is grounded through by-pass condensers to shunt any stray oscillations into the earth. The two coils are wound on fiber or bakelite tubes that are about six

(Continued on page 80)

AMENDING THE RULES

● ● ● *Close of the Debate*

OUT of a bushel of letters regarding the proper rules for DX, we can find room for but a dozen but these are typical of them all. Only one rule meets unanimous approval and that is No. 1 which we repeat here: Do not log a station nor ask for verification unless you are positive in your own mind of the identity of the station. Our correspondents are agreed that the so-called Dixer who shoots in a report to the most likely prospect on or near the wave he heard, is hurting the game fearfully by tending to bring all DXers into disrepute with the station authorities. An example of this has just come to our attention.

Early in the fall station CKPR, Fort William, Ontario, notified us that, commencing in November they would have a DX program every Saturday morning at one o'clock. For some reason they were unable to carry out their plan and overlooked notifying us. As a result this program appeared in our DX Calendar. Notwithstanding the fact that the station was not on the air "we have been pestered with letters from would-be DXers who comment on the clarity, etc., of our programs" says Ralph H. Parker of that station. Surely even the most obtuse of DXers must see that incidents of this kind bring an impulse to station managers to throw all DX letters and reports into the waste-basket.

There are listeners who, if they cannot understand a program, immediately look for the foreign station nearest to that channel and report reception of that station! If a man happens to be giving a Dutch monolog on the program, they look for a German station. If it is the Volga Boat Song, they look for a Russian. If it happens to be the

"Peanut Vendor," they look for a Cuban, and so on *ad nauseum*. What shall we do with this sort of person?

Rule Number One may therefore be framed and hung over every radio set. *Do not log a station nor ask for verification unless you are positive in your own mind of the identity of the station.*

The Diverse Views

The other five rules are the subject of furious debate. Each has its defenders and each has its opponents. We can only present some typical letters regarding them before we proceed to draw our conclusions.

Murray Bryce, R. M. D. 1, Royal Oak, V. I., B. C., agrees that the DX family certainly needs to agree on one set of rules. He thinks that one's log should be an honest measure of results. "I think it ridiculous to count a station twice merely because of a change in call letters. I disagree with your rules in counting a station twice because of a frequency change. Take KRLD for example, could anyone fairly say that it is five stations, just because it has changed its frequency that many times?"

Robert Brady, Jr., 47 Eastman Ave., Rochester, N. Y., thinks a change of locations should not count unless it is a material one in distance. He does not think that a change in frequency should permit a station to be counted again.

Says William P. Hinkelman, 385 Elizabeth St., Pasadena, Calif., "A glance at some of the DX logs reported in your magazine, indicates that they have been logged over a long period of time, from far and near, operating and deleted and new ones added each time some minor changes are made. This I would call *gross collecting* and it should not belong to DXing. I think DXing ought to be along the lines of mile-

age collected from distant stations logged during the period of a year's time, then submitted for comparison, instead of dragging out a log covering a period of four or five or more years. Then the beginner would have an equal chance with the old timers. It is my firm belief that rules along the above lines would be welcomed by true DXers everywhere, would eliminate confusion and shooting for mileage would make for real DXing."

Howard Judson, Route 2, Rochester, Mich., agrees with A. E. Armstrong of Glendale, Calif., who, thinks Mr. Judson, has really the best idea of any yet submitted. "When a station changes its call letters (said Mr. Armstrong in the January issue) I also change the letters on my log but I do not count it as a new station." Mr. Judson comments: "If that idea were adopted and changes in frequency and call letters and minor changes in location were not counted, the totals would give a true impression of the number of transmitters actually heard.

"You certainly keep yourself in hot water," sympathizes Mrs. L. R. Ledbetter, 1109 Grammar Street, Vicksburg, Miss., "so here I am for the defense. Anyone who knows radio realizes that tuning is sharper on the higher frequencies. I have received CJGC, London, Ont., clearly before dark on 960 kcs., but I consider it impossible for me to log it on 695. CFRB came in on 960 as early as four p. m. but they are seldom heard on 690."

Channel Changes

Wm. A. Stead, 736 West 181 St., New York City, objects to the count of call letters each time they are changed. "Take, for instance, KMIC, Inglewood, Calif. They changed their call to KMCS and now it is KRKD. How the same station could be logged as three stations, is beyond my comprehension. I have logged 940 stations since 1922 and if I had included stations that had changed their frequencies and call letters, my



Well, well, here are "Goldy & Dusty" back again after five long years. On an Eastern CBS net every morning except Saturday and Sunday at 9:15.

log would now be about 2,000 stations."

Stuart Walmsley, 1641 West 60th Street, Los Angeles, Calif., agrees that a station should not be counted a second time merely because it changes its call letters. "Of course, if one has a large number of stations, it makes a fine showing in print but after all is said and done, it is not the number of calls that counts so much as the stations received."

Richard D. Caddell, 1115 Pender St. W., Vancouver, B. C., writes: "I do not count a station that changes its call letters as a new station but, on the other hand, I do count a station that moves to a new location. It seems foolish to consider a station that merely changes its call letters as a new station."

Harry P. Rosenbrock, 252 East 4th Street, Clifton, N. J., gets close to the heart of the matter when he says: "My opinion is that a DXer should have two logs—one a list of active stations he has received and

the other a list of all the stations he has received. It seems a bit foolish for me to count all the stations I've received since 1922 or earlier."

Simplicity is the keynote of the plan used by A. L. Long, 523 N. Dewey, Oklahoma City: "I do not worry about DX rules. I never log a station unless I hear the call letters as I do not want to take a chance on logging the wrong station. I do not ask for verifications because I know I have the station. I am DX-ing for my own pleasure and do not care whether anyone else believes that my log is correct or not. I keep my log up to date with the latest issue of RADEX. If a station has been deleted I drop it from my log. If new stations have been added I try to get them."

Verifies His Locals

Heinz Milark, 102-10 135th St., Richmond Hill, N. Y., and E. L. Kimmons, 309 Leland St., Austin, Texas, takes exception to the rule against verifying local or nearby stations. Says the former: "I disagree about not writing to locals for verifications for I am sorry I have not done just that; many of my locals got the ax." And from Mr. Kimmons: "I take exception to the matter of 'wall-papering.' I have a verification—a personal letter from the manager—of our own local station, not because the report on volume or tone was any benefit to him, but it did let him know that I enjoy his station and I feel sure any local station will be glad to verify his home-town DXers." In regard to the other rules, Mr. Kimmons says: "Let's take rule No. 1. I certainly agree with you on this. About two months ago I copied a program from WWSW, a little 100-watter in Pittsburgh, for one hour and thirty minutes before I was positive it was WWSW. Their selections were clear at times but the static messed up the announcements; finally I got a break and heard his station call several times. The same thing happened to YV1BC. Now if all DXers would stop jumping at con-

clusions and send a correct report to the right station all of us would receive our verifications more promptly and the stations wouldn't get sore at us because of another's faults.

"Now let's take rule No. 2: Last year two little stations in Iowa, (KWCR at Cedar Rapids was on 1310 and WIAS at Ottumwa was on 1420) changed frequencies. I already had those stations verified but on their first night on the changed waves, I heard both programs. Under your rule I would have had four stations."

Robert Emory Base, 4105 Alto Road, Windsor Hills, Baltimore, Md., quotes from a letter he received from Frank Scott in charge of issuing the DX certificates for the Newark News Radio Club: "In counting stations, we count calls only. If a station moves from one part of a state to another part of the same state, and uses the same call, it should be counted only as one station. If a station keeps the same call and moves to another state you may count it as another station. If a station remains in the same state and changes call, you may count it as another station."

Radically Different

An old DXer who asks that his name be not used has this to say: "I agree with you that there should be a uniform system of logging stations. I also agree with you that your proposed method is technically correct. However, it is so radically different from the methods generally used that I do not intend to follow it. Here are my reactions to the six points: First, to this point I give my wholehearted support, absolutely and completely. This is one of the cardinal points of DX I think. Trying to guess the identity of stations by type of program, frequency or operating hours accounts for a very large portion of the unanswered reports, verifications refused and unfavorable attitude toward DXers as taken by many station officials.

"If a station changes its frequen-

cy, I do not relog it. Your argument is technically correct, a change in frequency gives an entirely new problem. Still I prefer to use the simpler system. Third, if a station changes its call I am going to relog it, the call being really the name of the station. The records will show that hardly ever is a call changed without some other major changes being made. Rule 4: To this one I agree—it's not an important one (rather silly to count phantom calls)—but every one seems to be doing it and I am too. Rule 5: I don't believe in logging police and other stations from outside the broadcast band but heard on harmonics or on sets which reach below the b.c.b. According to my way of thinking, a broadcast log should be a broadcast log and such other stations should be listed in a separate log."

Summing It Up

Earle H. Morris, 716 Beech Ave., Charleston, W. Va., sums the matter up thusly: "It isn't often that I mix in controversies raging in magazines but in this case of DX rules, I have very strong convictions. I agree wholly with your rules Nos. 1, 4, 5 and 6 but as to Nos. 2 and 3 I would like to offer this suggestion:

"What we DXers are really after is to keep as large a number of the present broadcasting stations upon our DX lists as possible. Stations that have been deleted are so much water under the bridge. Why keep them on our lists? As for old call letters, just because Mary Jones changes her name to Smith but continues to live at the same location, there is no reason for sending her two invitations to a party, is there? Rewrite No. 2 as follows: If a station moves to a new location it is to be deleted from your log. It is to be logged again only when received at its new location. No. 3: A station merely changing its power or call letters at the same location makes no change in the list."

There are the arguments, for and against. As some of the debaters



Claire Willis, 23-year-old singer, with the Travelers Quartet and Dolph Martin's Orchestra, Monday, Wednesday and Friday, Columbia network at 7:30 p. m. EST.

point out, there are really two sorts of records in DXing. The clubs all seem to award honors in accordance with the aggregate logs, that is the grand total of stations received whether in one year or ten. This magazine, on the other hand, is much more interested in logs of existing stations. The fact that a DXer received a WPDQ when that station existed a number of years ago, is not nearly so interesting to us as it would be to know that he has received WKEU, the new station we are adding this month.

We have avoided publishing huge logs very many times, not because we doubted them, but because those DXers were not in a class with the great majority of our listeners. It was too much like entering a golf pro whose usual score was in the sixties, in a public-course contest where breaking a hundred was a major

(Continued on page 80)

HELPFUL ADVICE to the TROUBLED

• • • *Improving Your Set*

I HAVE a Silvertone 93 receiver that uses two -26 tubes which rapidly weaken after being inserted in the sockets. Should I use some of the new tubes in this set, or what do you advise to remedy this expensive tube trouble?

The -26 tubes in your set are the second and third radio-frequency amplifiers, and the obvious reason for weakening is overheating of the filaments and damage to the coating of thorium material through an excess potential. The rated voltage to be applied is 1.5 volts, and the current should be 1.05 amperes, approximately 1.6 watts per tube. Test across the filament contacts of these two tube sockets with a sensitive voltmeter while the set is turned on and operating. The potential should read slightly less than 1.5 volts. If it is higher steps must be taken to reduce to the rated voltage by suitable resistances. The -26 tube requires only a very low temperature (a dull red) to operate satisfactorily.

The first -27 tube (first radio-frequency) may be replaced by a new 56. The -71As cannot be replaced with -45s with any degree of satisfaction. The -71A tube requires only .25 ampere while the -45 consumes 1.5 amperes, or 6 times as much. The -45 uses only 2.5 volts while the -71A takes 5.0 volts, thus necessitating the insertion of suitable resistors to cut down the filament potential. It would be likely that the powerpack unit would be overheated in order to supply this additional current.

Mysterious Interference

A strange buzzing sound appears at intervals in my set. It ceases upon disconnecting the aerial. When it oc-

curred the other night I went to several neighbors' homes and they found that the noise stopped too when the antenna was disconnected. How can we locate this interference, or to whom shall I communicate for aid?

The fact that the sets in the neighborhood hear the same buzzing sounds shows that the trouble does not lie in your receiver. Such troubles are hard to locate. It is likely that some X-ray machine, or similar appliance, is being operated evenings in your neighborhood. Does some physician reside nearby? There are other electrical devices—motors, fans, cars, etc., with sparking parts that cause serious interference.

The District Radio Supervisor in charge of your section can give you some good advice. He will be found in New York City. Or you can write the Federal Radio Commission, in Washington, D. C., for the name of your local radio inspector, who may be prepared to locate this interference for you.

Foreign Tubes

As I contemplate a journey to Germany I wish to take my little International radio set. Can I buy tubes in that country which will fit this set, or should I carry a supply of American tubes?

German tubes can not be substituted for our own forms. The Telefunken tube has longer and slimmer prongs which may not fit your sockets, and, as the International uses types 36, 38, 39 and the special rectifier KR1, it is advisable to carry proper tubes. Also, much German broadcasting is on longer waves, and the tuning limits of your receiver may not give you satisfactory reception in that country.

Grebe Control Values

Can I use new type tubes in my Grebe model 6 receiver? What are the values of the volume control and tone control used in this set?

We doubt whether substitution of 58s for the -35s in your set would be worth-while, and it is likely that the adapters under the 58s would raise them so high that they would interfere with shielding. Try 56s in place of -27s in the second detector and first audio "driver" tube sockets. Do



Edwin C. Hill on "The Human Side of the News" Monday, Tuesday and Wednesday at 10:30 p. m. And—don't miss this—Fridays at 9:30 p. m. "The Inside Story of Names that Make News." All CBS.

not use in the oscillator.

It is our understanding that the resistance of the volume control is 5,000 ohms, while that of the tone or "color" control is 100,000 ohms.

Wants Circuit Diagrams

If I install new tubes in my Philco model 90-A will they improve its performance? Can you furnish me with circuit diagrams for the Steinite receiver using -99 and -12A tubes, and advise me the value of its voltage divider? I also would like a diagram

of my Stewart-Warner short-wave converter. Can I run the converter from my Philco?

New tubes for old in the Philco 90A is not recommended. This modern receiver is critical and replacements of tubes for which the circuit was not designed will tend to upset the balance. The 90A is an excellent set as it is.

A circuit diagram of the model 991 Steinite has been mailed you. None of the new tubes can be used to replace the -99s and the -12A in this set, for all the -99s are connected in series. A complete change of wiring would be necessary. A -71A can be substituted for the -12A, but a greater grid bias may be necessary. A 22½-volt "C" battery can be attached in series with the lead to the grid of the present -12A socket and experiments made until the proper C voltage is obtained. It is not easy to provide greater C negative bias from the voltage divider.

The voltage divider is a series resistance made into several sections—1,000, 1,000, 250, 0, 250-ohms. A duplicate of the original may be procured from Wholesale Radio Service, 100 Sixth Avenue, New York City.

A schematic diagram of the Stewart-Warner short-wave converter has been sent to you. The plate voltage may be obtained from your Philco 90A at some point delivering filtered DC at a potential of the recommended 250 volts. A wafer adapter is the best method of tapping the plate contacts, together with the plate plug tip of the converter.

Wants Police Calls

What sort of simple device can I purchase to attach on my RCA Victor 10-tube receiver so that it will bring in the police calls in addition to the regular broadcasts?

Any short-wave converter, when attached to a broadcast receiver, will enable one to receive broadcasts made on the shorter waves, including the police calls. But, for the latter, a small and less sensitive device will be satisfactory. Such a single tube,

inexpensive short-wave converter for police calls, airplane and Coast Guard communications, is made by the Insuline Corporation of America, 23 Park Place, New York City, and may be ordered direct or through RADEX.

Tubes For Sparton

My Sparton 79A receiver uses the special Cardon tubes. Can you tell me what other standard types will match the tubes in this set?

Type -10 tube can be used in place of the Cardon 585 used in the Sparton receiver. The latter uses 7.5 volts on the filament the same as the -10. The six 484s, all of which are radio-frequency tubes and a detector, may be replaced by -27s. These -27s can not be replaced by the newer 56s to advantage in this set. The 485, replaced in your set by a serviceman, is the detector. Sylvania also makes tubes similar to the Cardons, for Sparton receivers.

The 484 and 485 uses 3.0 volts on the filament while -27s and 56s use only 2.5 volts. This means that -27s, when used in place of 484s, are slightly overloaded with filament current, but it may not materially shorten the effective life of the -27.

Bosch Plate Voltages

I wish to use a 2-tube Doerle short-wave converter with my 8-tube Bosch receiver and at the same time take off the necessary operating current for the two tubes. How, and where, may I find proper filament and plate potentials?

We assume you have Bosch model 58, using four -24s and one -27, with two -45s in power push-pull and -80 rectifier. Unfortunately, we have no data on the Doerle short-wave receiver. However, if this set's two tubes are similar to the above, you may take 2.5 volts off the filament secondary of the main power transformer which supplies the filaments of all the tubes without risk of serious overheating. Plate voltages may be taken from certain tubes of the Bosch. The plates of the first three

radio-frequency tubes have a potential of 170 volts; the -27 uses 150 volts; the plates of the two -45s take 250 volts; and 75 volts may be found on the screens of all the -24s. These tube plate voltages may be tapped by means of wafer adapters slipped over the prongs of the tube which is to furnish the voltage needed.

Unsatisfactory Connections

I have been using a General Motors short-wave converter with my Philco 77 receiver, but the volume is very weak. There is a wire 25 feet in length running from the converter to the broadcast set. If I use the new tubes will it make the short waves work better?

The heterodyne converter should be placed as close as practicable to the broadcast receiver and the connecting high potential lead made as short and direct as possible—a few inches being too much in some cases. The long extension cord used by you is far too much.

Changing the -27 tube in the Philco will not increase sensitivity, for it is



"John Henry, Black River Giant" (Juano Hernandez) with Georgia Burke of the all-negro cast on the Columbia network Sundays at 8:00 and at 8:45 p. m.

an audio tube. A 56, in this socket, may improve the volume a small fraction. We do not recommend changing the -45s over to -47s in your set. No changes must be made in the converter.

New Tube Oscillates

After reading that a 56 type tube could be used to replace a -27 I inserted one in my Majestic 62 set. Now the circuit oscillates and fails to operate as it did before with the -27. Why is this?

When you substituted a 56 for the -27 tube in your Majestic it was the oscillator that you replaced. This portion of the circuit is very critical and cannot be altered. It is not good to replace oscillators with 56s or other tubes. Many changes in wiring and resistors would be necessary to permit the use of a 56 in place of your -27 in this instance.

Adding A Power Stage

As I wish to use a phonograph attachment on my RCA 60 receiver I believe another audio stage must be added to give me more power. Is this a practicable step, and how can it be accomplished?

The RCA model 60 utilizes one stage of audio amplification with one -71A power tube. This is insufficient for phonograph amplification. A new stage can be connected to the two terminals to which the present loud speaker is attached.

Connect the ends of the primary coil of a low-ratio ($2\frac{1}{2}$ or 3 to 1) audio transformer to these two terminals in place of the loud speaker. The secondary coil is connected to another -71A tube in the same way the existing -71A is wired. G of the transformer secondary goes to the grid of the new tube, and F to the lower end of the grid coil that connects to the grid of the old -71A tube. Plate (P) of the new tube goes to the loudspeaker and thence to the B supply which is taken off the plate of the old -71A tube with a wafer adapter. If the loudspeaker has no output



Fred Waring's little brother, Tom, is heard in the vocal choruses when Old Gold broadcasts Wednesdays at 10 p. m. He also doubles at the piano. CBS.

transformer, one must be used and connected into the plate circuit, with the speaker across the secondary output coil to prevent the plate direct current from burning out the speaker coil.

Converter And Headphones

I am using a Philco short-wave converter with my Philco 8-tube neutrodyne receiver. Will new tubes improve it? But I am particularly anxious to use headphones with the converter, if possible.

There will be no advantage in substituting the 56 for the -27, because the location of the latter, in the circuit, is such that the benefits of the 56 cannot be obtained. The Philco converter must be attached to the antenna terminal of the Philco receiver. Earphones cannot be used on the converter. The purpose of these converters is to take a weak signal of

(Continued on page 76)

VISITING RADIO STARDOM

with "Betty"

TO innumerable thousands, Annette Hanshaw is known as Gay Ellis, Dot Dare and Patsy Young—names she has used over a period of years on the air and in making recordings. A native of New York, Annette first learned music from her talented father. She attended New York public schools until the family moved to Florida. Then she attended several convent schools and later a boarding school.

Her musical talent was apparent early in her life. Before she was fifteen, Miss Hanshaw had been offered two musical scholarships, but turned them both down to study art. She came to New York to attend the National Academy of Design, and for the time being completely forgot her music, which was to bring her fame in a comparatively short time.

After a year of art work she began to study piano. Later she took up the ukulele, and learned to play well enough to accompany herself. Her fame as an entertainer soon enabled her to get work at social functions in New York and nearby points. It was at one of these parties that a representative of a recording company asked her to make a test. That was in 1928, and since that time she has been heard in many parts of the world. Then she sailed with her mother and younger brother for Florida. The moment her boat docked, she was asked to appear on the radio. She signed for a series of commercial broadcasts for a real estate firm in Clearwater, Florida.

Again she returned to New York where she turned down an offer from the late Florenz Ziegfeld to join one of his shows, but instead moved to Mount Kisco in Westchester, New York. There, between recording engagements, she opened a music shop. It was during this music shop era that

several sponsors of radio programs asked Miss Hanshaw to appear for them. She was invariably signed up after the first audition.

During the next two years she sang on many outstanding programs, and her voice is now heard on the Maxwell House Show Boat and with the Clicquot Club Eskimos. On the latter program she is known as Gay Ellis.

She spends her winters in New York and her summers in Scarsdale, but when it comes to vacation, she prefers Maine woodlands. She is not married because she hasn't "met him yet." She loves to go to bed late nights, read until she falls asleep and to remain in bed as late as possible. She is one of the best dressed artists in radio, and prefers blue.

Julia Sanderson

Julia Sanderson was born in Springfield, Mass., the only child of Mr. and Mrs. Albert Sackett. Instead of meeting discouragement when she proposed going on the stage, her parents helped her at every opportunity. At the age of thirteen she was going to school in the morning and studying for the stage in the afternoon. When she was fifteen, Miss Sanderson went to New York to engage in chorus work. Her first show was "Winsome Winnie," where Shubert saw her and offered her a contract. After she had made her debut, other opportunities came rapidly. But her first great chance came when Charles Frohman heard her sing and decided to star her. She went into the rehearsals of "Sunshine Girl" and was an immediate success. Marion Davies was in the chorus.

Other successes followed, and then she joined "Tangerine" in 1922. At the very first rehearsal she met Frank Crumit. He was her leading man and from that moment on they hit it off and have been together ever since.

Five years ago they married. Their last show was "Oh Kay!"

They finally decided they were weary of travel and began to plan their home. They chose an ideal spot at Longmeadow, near Springfield, Mass., which they appropriately called "Dunrovin." It has been a happy home, says Miss Sanderson, for there she has found peace and quiet that the road could never give. Frank keeps up with his golf and she maintains her own garden and oversees her charming home. She also assists Frank in the preparation of their Blackstone Plantation programs and writes many of the personal letters that go to their listeners.

Miss Sanderson is five feet, three inches tall and weighs 126 pounds. Her complexion is fair and her hair is golden. Her hobby is collecting photographs and autographs of stage celebrities. She has almost 500 photographs.

Frank Crumit

Frank Crumit was born in Jackson, Ohio, September 26, 1889. Was graduated from old Jackson High, went to Culver Military Academy, and later matriculated at Ohio University at Athens. He went into vaudeville with a couple of fraternity brothers and in 1915 broke into "Queen of the Movies" with his uke. But vaudeville called again and Frank returned to the stage to bill himself as the "One Man Glee Club."

From then on, Frank clicked. He starred in "Betty Be Good" in 1918, and "Greenwich Village Follies" in 1920. In that year he made many records and found himself nationally famous because of them. In 1922 he accepted an offer to play the lead in "Tangerine" and met, as he puts it, "a girl with a funny little giggle."

While listening to a radio program one day at their cottage at Longmeadow, Frank suddenly got the notion that radio was for both of them. It had never entered Miss Sanderson's head to appear publicly again. Life stretched before her with ease and comfort a delightful certainty.



Gay Ed's, Dot Dare, Patsy Young and Annette Hanshaw—all in one.

But once ignited, their enthusiasm was boundless and the two famous musical comedy stars were soon familiarizing themselves with all of the technique of broadcasting. They began their air careers over NBC in 1928 and have been heard without a break since.

Pictures of Miss Sanderson and Mr. Crumit appear on page 17.

STAR DUST

Roy Atwell, the word-scrambler heard on Fred Allen's Revue, has a featured part in "Strike Me Pink", the new Brown and Henderson musical show. Others starred in the production are Jimmie Durante, Hope Williams, Lupe Valez and Hal LeRoy.

* * *

Sunday evening is both the busiest and the pleasantest time of the week for Ernest Hutcheson, the distinguished pianist who is heard in weekly CBS recitals. Mr. and Mrs. Hutcheson regularly give Sunday evening parties for approximately twenty of

the outstanding young students at the Juilliard Graduate School of Music, of which Mr. Hutcheson is Dean. Following supper and a few games of bridge and ping-pong, the party journeys to the CBS studios, where the student group witnesses the radio recital from select seats directly beside the distinguished pianist. Following the broadcast, the Hutchesons usually drop in at one of Author John Erskine's regular Sunday night parties, where Hutcheson frequently entertains those present with his playing until the small hours of the morning.

* * *

After years and years of struggling along on their own resources, Amos 'n' Andy (Freeman Gosden and Charles Correll) have employed a secretary. Now the two NBC comics admit that it keeps them busy trying to find enough work to keep her busy.

* * *

Jack Pearl, the Baron Munchausen of the Thursday night Magic Carpet, has postponed his movie career until June 27th. He'll return in October to the air waves, but there'll be a national convention of Baron Munchausen clubs held in Central Park Mall in New York early in June—before Der Baron turns film star.

* * *

Don't be surprised if Carson Robinson, noted hillbilly exponent, lands on a Middle Western station this summer. They're begging him to come out to do his stuff nightly.

* * *

Many of the torrid arrangements for Ben Bernie's orchestra come from the facile pen of Dick Stabell, saxophone player for the Old Maestro. And of his work Ben says, "Dick puts fire in his arrangements, but sometimes we have to put his arrangements in the fire."

* * *

B. A. Rolfe's startling return to the air was engineered by Douglas Storer, New York advertising agency man, who pointed out to NBC that since the Magic Carpet was giving up

the Saturday night spot where Rolfe became famous, that if they put Rolfe in there to hold listeners, he'd get a sponsor for the hour within a week's time. NBC called his offer—so an auto manufacturer (Hudson-Essex) sponsors the hour. That's radio history, because the famous "ten-to-eleven" hour was saved with the same music listeners have been getting at that spot for four years. The "Men About Town" also appear on the hour.

* * *

Those "Three California Nuts", Ken Browne, Cliff Arkell and Red Corcoran, who appear at 7:30 p. m. EST Sunday nights over the WEA network, were the "Three Public Enemies" on the Pacific Coast. Unless all experts are wrong, they will be radio's next great comedy sensation.

* * *

At last an Irish baritone is looming on the horizon. For years the words "Irish" and "tenor" went together. But Tommy McLaughlin, the "Romantic Bachelor," is making folks like an Irish baritone. Incidentally, Tommy holds the radio record for being a godfather, standing up for four different children in five weeks.

* * *

How do you like the new "Sammy" and "Rosie" on the Goldberg's program?

* * *

Brickbats

"I think Ray Perkins is the most tiresome person on the air. His efforts to be funny are pathetic."

Mrs. R. C. F., Topeka, Kans.

"I always jump for the dials when I hear that dirge that precedes 'Chandu the Magician.' Do you suppose anyone listens to it?"

J. L. K., McKeesport, Pa.

"Advertisers who pay good money to put murders and gangster stories on the air, have a queer sense of values."

Miss B. C. J., Denver, Colo.

Bouquets

"I never used to care for Rudy Vallee but I think he is now putting on the very best show on the air."

K. L. S., St. Petersburg, Fla.

"Don't you think 'The Magic Voice' is unusually well prepared and presented? I do. You are always anxious to hear the next one."

Miss F. C. J., Kalamazoo, Mich.

"In my opinion the dramatic interview of Warden Lawes by Edwin C. Hill in 'The Inside Story' was the best thing I ever heard."

W. A. B., Shreveport, La.

The INTRIGUING Field of the SHORT WAVES

• • • By PAGE TAYLOR

EDITOR'S NOTE: This department of our magazine has aroused a widespread interest among those readers who have heretofore confined their tuning to the broadcast band. These listeners are anxious to try the short waves with their present receivers. Mr. Dashiell and Mr. Bradford of the National Radio Institute are collaborating on an article on a simple but efficient short-wave converter which Mr. Bradford has designed. This article will appear in the May issue of this magazine and will present full instructions for building this inexpensive converter.

• • •

ATENTION is invited to the complete list of the Short Wave Stations of the World in the present issue. It is true that a shorter list presenting only those stations that can be heard at the present time has its advantages, but due to the fact that short wave reception conditions change rapidly and long-forgotten stations sometimes suddenly reappear, it is well to give, occasionally, a complete list such as this one to facilitate the identification of those stations.

The advantages of this list can readily be appreciated by recalling that the list which appeared in RADEX last October included such stations as PHI, DJC, DJD and DJE, none of which was, at that time, on the air. They have since been heard, however, and RADEX readers who heard them were not handicapped in identifying them as one would be who uses the shorter lists exclusively.

Warning!

Because most point-to-point stations (telephone stations) transmit material of a nature private to the

user of this service, whether it be radio telephone service or program material intended for some foreign point, both the station and any chance listener are required by International Treaty and United States Law not to divulge the nature or even the existence of such transmissions. For this reason listeners are advised not to request confirmation of reception from these stations. However, since foreign telephony stations often request reports regarding the interception of their experimental transmissions this advice cannot be made to apply in all cases. Stations that do not acknowledge reports from listeners are indicated in our lists by an asterisk (*).



Here is Augustus Barratt who writes the scripts and takes a prominent role in "The Magic Voice" Tuesdays and Saturdays on CBS at 8:15 p. m.

Easy Lesson in H. F.

This paragraph is written especially for beginners. In previous issues of RADEX instructions were given with regard to careful and patient tuning. Included here are two more important rules to remember. First, do not expect foreign stations to be weak and thereby pass up all the loud stations; many times a foreign station will be the loudest one in the band. Secondly, do not pass up a station if it is playing American jazz or announcing in English, as it may be German, Spanish or even Japanese. One never knows. It is quite possible that some of you are overlooking distant stations due to the volume or the nature of the program, as this has been done many times by even veteran tuners. This month we are listing ten stations that have been regularly received at good speaker volume in nearly every part of the continent. If you are having trouble finding foreign stations our suggestion is that you concentrate on this small group until you have heard some and learned how easy it is to tune them in. The time given is about when they reach maximum volume. Time shown is in EST.

6.050 49.56 GSA.	Daventry, England, 8:30 p. m. daily.
6.119 49.00 YV1BC.	Caracas, Venezuela, 8:00 p. m., daily.
6.618 45.31 PRADO.	Riobamba, Ecuador, 10 p. m., Thursday.
7.872 38.47 HBP.	Geneva, Switzerland, 5:00 p. m., Sunday.
9.503 31.55 VK3ME.	Melbourne, Australia, 5:00 a. m. Wednesday and Saturday.
9.585 31.28 GSC.	Daventry, England, 4:00 p. m., daily.
9.862 30.40 EAQ.	Madrid, Spain, 6:00 p. m., daily.
11.711 25.60	Portoise, France, 5:00 p. m., daily.
11.753 25.51 DJD.	Zeesen, Germany, 3:00 p. m., daily.
11.800 25.40 I2RO.	Rome, Italy, 5:00 p. m. daily.

The Thrill of Big Ben

Undoubtedly one of the most famous time signals in the world is Big Ben atop the Houses of Parliament in London, which thousands of short wave listeners throughout the world have heard chiming the hour of midnight through station G5SW. With the passing of 5SW in December, however, Big Ben was not discarded as the new Daventry stations continue the custom of broadcasting this bell.

Any short wave fan who has never heard the thunderous, deep-throated tones of Big Ben should tune in GSA just a few moments before 8:00 p.m. any night and hear the Westminster chimes, which will be followed by Big Ben striking one o'clock.

Old Friends Back

One of the world's pioneer short wave stations has returned to the air after an absence of nearly three years. This is PHI located at Huizen, Holland, and operating on 16.88 meters. We understand, unofficially, that it will soon be heard on 25.57 meters with the call letters PHOHI.

Another old friend, VE9DR, has also returned and, judging by the volume with which it is received most listeners thought the original power of 2000 watts was used but the station officials inform us that the power has been reduced to 50 watts and the transmitter is now located in the heart of the City of Montreal. The present schedule is: Daily except Sunday, from 7:30 a.m. to midnight, and on Sunday from noon to 11:15 p.m.

The Maritime Broadcasting Co., Ltd., of Halifax, Nova Scotia, advise us that their station VE9HX has been moved down to 48.95 meters and uses a power of 200 watts.

For Code Readers

Mr. L. F. Stetson, 3420 Janssen Ave., Chicago, Ill., kindly sends information which will be of interest to anyone who can read code transmissions. He writes: "Amateur station VU2FY, Mr. O. A. F. Spindler, Coromandel P. O., South India, will be carrying out a special series of tests on CW on the 13th, 14th and 15th of April, wavelength 41.5 meters, frequency 7,224 kc/s. at 5:00 a.m. Indian Standard Time (6:30 p.m. E.S.T.). He will be grateful if all British amateurs, members of the B. E. R. U. and A. R. R. L. and all USA fans will look out for him. Each test will last fifteen minutes and all reports should be sent direct which will be acknowledged by a special

QSL card. The call sign will be sent frequently with a series of V's, then call sign, and a short message will follow. This message must be correctly read to get the QSL."

Some Good Reports

A long and interesting letter was received from J. G. Richard Heckscher, 1558 Massachusetts Ave., Cambridge, Mass., from which we quote the following: ". . . I have forwarded to you a copy of my log for the past five months. In logging these stations I have followed the inviolable rule that a station does not go on the log until it is either positively identified by its call letters or by an announcement of its location in conjunction with its frequency; consequently I am reasonably sure of the reception of many stations which do not appear in the log. In every case they are stations which come in very well here in Cambridge despite my receiver's being surrounded by apartment houses, situated in one itself, within two hundred feet of a trolley line. This log should be an adequate reply to many of your more cynical correspondents as to what is actually possible in even the worst of locations with a good high frequency receiver in conjunction with a little patience; this in five months only and using the set only at odd times during the day and night."

We regret that we have not the space to include Mr. Heckscher's log in its entirety, but it includes all of the commonly received broadcast and telephone stations, in addition to numerous police, airport and ship stations. Some of the seldom-heard stations are T1RC, 9.505 meg., San José, Costa Rica; RV59, Moscow; FRO, St. Assise, France, on 19,420 kc/s. and FTO on 18,250 kc/s. His log shows a total of 232 stations, which is a good record for any s.w. fan and particularly outstanding as a record of only five months' tuning.

"I have a Kennedy long and short wave 12-tube super-het with rather ordinary aerial equipment," writes George K. Glass, 1320 Cadillac Blvd.,



Julia Sanderson and Frank Crumit

Detroit, Mich. "Short waves sure are full of thrills," he continues, "but as yet have heard nothing in England. Here are all the calls I have had since November, 1932: EAQ, DJB, YV1BC, YV1BMO, PRBA, HKD, I2RO, FQE, KKP, PRADO, TGW, HBL and HBP. I listened from 1 to 3 a.m. this morning for VK2ME and am sending them a log with comments on every bit of their program. Tuned them in so loud on a couple of selections that I woke up the wife.

"I've solved the problem regarding dial settings for any desired station. I have plotted curves between dial settings as actually found and wave lengths. Then I can take any desired wave length and hit the probable dial setting almost on the nose." This is a very good idea that Mr. Glass suggests and one that we recommend to all our readers as it solves quickly and surely the problem of where to find any desired station.

Distressing calls for help come from two of our readers. Frank R.

Slama, c/o First National Bank, St. Paul, Minn., uses a Midwest converter with an 11-tube Philco while Henry King, Jr., 743 Simpson St., N. W., Atlanta, Ga., uses a long and short wave 11-tube Philco. These two gentlemen have had their sets for a year and have not yet located any foreign stations. They both would like to hear from users of similar sets who can offer them any assistance. In the meantime Mr. Glass' suggestion regarding curves between known stations might be of some help.

More Help Wanted

"I am much interested in DX and short wave programs," comments C. C. Turner, Box 186, Oceanside, Calif., "Though I devote much time to the set I have little success receiving distant stations. It does not seem possible that the trouble could be in the sets I am using (a Lincoln 33 and a Sparton converter with a Sparton 410 set). I am a semi-invalid, and by reason of this have the entire twenty four hours of each day to codger with my radio. I would be pleased to hear from anyone who could give me any idea about an antenna that would enable me to bring in foreign s.w. programs."

Verifies Geneva

"EAQ, Spain, on 30.4 meters comes in with volume enough to be heard 200 feet away every Saturday from 1 to 3 p.m." reports Edmund J. Bieglecki, 3309 E. Warren Ave., Detroit, Mich. "I2RO and HBP are very good. I am sending a verification from HBP and hope it will prove of interest to your readers. My receiver is the 16-tube Midwest and I would like to hear from other owners of this set." The verification follows:

"In reply to your letter, I am glad to be able to tell you that you have in fact picked up one of our broadcasts.

"Since September 25th, broadcasts on the work of the League of Nations are given every Sunday from the League wireless station 'Radio-Nations,' in English from 5:00 to 5:15 p. m.; in French from 5:15 to 5:30 p. m.; in Spanish from 5:30 to 5:45 p. m. (Eastern Standard Time) on wavelengths 31.3 and 38.47 meters.

"We carry our weekly programmes, on some Sundays giving talks by statesmen known to audiences all over the world, on

others interviews between a journalist and an official of the Secretariat of the League of Nations on current problems.

"Any letters on our programmes and their reception will be welcome.

"Perhaps you would address them to G. Gallarati, League of Nations, Geneva, Switzerland."

Does J1AA Scramble?

"Did I hear J1AA on February 24th?" asks George W. Burns, 2466 Wahl Terrace, Cincinnati, Ohio. "I first heard this station this afternoon shortly before three o'clock talking in a high, sing-song voice close to 15,760 kc/s. (19.02 m.). The talking was unlike anything I have ever heard before. The station was rather faint at first, later coming up until it equalled the Hawaiian phones in volume and clarity. After preliminary talking and calling, a 'scrambler' was used, making the speech unintelligible. The station went off at 3:45 p.m. Perhaps some of those west-coasters who have heard other Japs will be able to help." This question is respectfully submitted to our readers; this station has never been reported using inverted speech, but perhaps some other fan heard this same transmission and can identify Mr. Burns' station.

More Records

"The best short wave stations I am hearing at the present time," advises Edward C. Houlgate, 351 Adelaide St., London, Canada, "are Pontoise on 25.6 m. at 3:30 p. m. EAQ Madrid, 30.4 meters from 5:30 to 7:00 p.m. GSA 49.6 meters, 8 to 10 p.m. YV1BC from about 6 to 10 p.m. I2RO during the afternoon, sometimes DJD on 25.51 during the afternoon. When on the air they usually sign off around 4:30 p.m. Also hear YVQ on 22.48 working with WNC at Hialeah, Fla., on 19.91 during the afternoon. At the present time VE9DR seems to be on nearly all day as I get them regularly."

Eleven-year old Bill Reeder, 729 Belvidere Ave., Plainfield, N. J., is interested in the 75-meter amateurs, having heard all the districts and X5N in Mexico. He would like to

(Continued on page 79)

READING the Editor's MAIL

• • • *Our Readers' Views*

ONCE more let us advise our readers to be sure to get copies of May and June issues of this magazine. In these issues will appear full instructions and diagrams for building the simple short wave converter mentioned in Page Taylor's department on another page. In the May issue our regular Index by Frequencies will make way for a new list by frequencies which will give the data used by stations in making their announcements including the name of hotel or building housing the main studio, the full name of owner and the mail address and the slogan used. This list should be carefully preserved as it will be of inestimable value in identifying those stations whose announcements are caught only in part.

The Whole World

In the June issue, in addition to the second and concluding part of the article on building a short wave converter, the Index by Frequencies will contain not only the usual North American broadcasting stations but those of the whole world as well. This is an issue that should be kept for years.

And again the warning: The number printed of the May and June issues is always very much smaller than the run in the winter months. This means that these editions must be spread much more thinly and some of the smaller dealers may not receive any at all. If, therefore, you do not find the May and June issues on your favorite newsstand on the first day of those months, send your order direct to us.

Are We Punctual?

Beginning with the February number we changed our entire method of distribution in the hope of increasing our coverage and getting all cop-

ies on the newsstands not later than the first day of each month. Very naturally this resulted in some confusion and a few dealers and even some cities lost out. We have been greatly helped by readers who called these omissions to our attention. We will consider it a very great favor if our readers will notify us promptly if their favorite dealer does not have this magazine on sale on the first day of each month. Be sure to give us dealer's name and address.

Let us now open the month's mail.

Those Wave "Hogs"

When we rage over the super-power stations growing up on the Mexican side of the Rio Grande and filling the ether with rubbish, it looks like it might be a case of the pot calling the kettle black. Some of the U. S. A. stations are boring our neighboring nations greatly, particularly those that "hog" their wave all night and even 24 hours a day. Writes Alfred H. Bacon, 928 13th St., New Westminster, British Columbia: "A number of DXers here have asked me to take up the following matter with you. In your DX Calendar are quite a number of early morning programs on the 1200 frequency. Sir, on the coast here we have the 24-hour-a-day station KGFJ, Los Angeles, Calif., 100 watts, 1200 kcs. 'Hogging it' you hear him right through the night and morning advertising the Consolidated Hotels program with recordings. This early Sunday morning was terrible on 1200. I never heard such miserable broadcasting in my six or seven years with receiving sets. Cannot something be accomplished through your channels to overcome this nuisance? Is there any medium whatever in which KGFJ could be approached and asked to show a little courtesy by going off the air, say for two hours, while those DX programs

are on? The interference is nightly, not now and then. After about 1:00 a. m. KGFJ opens up wide and just throws his broadcasts to the air regardless of his wave-length. Just abuse, I would call it."

Stations which adopt a "public-b damned" policy are digging their own graves. If the National Association of Broadcasters cannot control pests like this they are going to bring about a censorship of the air as sure as fate. There is no station in existence that can provide worth-while programs for 24 hours a day, seven days in the week. They must use trash and, sooner or later, something is going to be done to take this trash off the air.

That Amateur Chatter

"Isn't there something that can be done for these amateurs?" plaintively inquires Mrs. G. H. Morton, East Marion, N. Y. "The difficulty these young fellows have in keeping up a conversation is actually painful to listen to. I just turned off a poor fellow who kept saying 'Hi there, old boy, you were doing fine business. Ha Ha.' over and over again so many times that I became desperate. Now I like to tune in these amateurs because they are different but it surely becomes tiresome to hear a boy repeat the same thing over and over a dozen times. Is there any law against their expressing views on politics, news, movies, jokes, etc.? If they only would I'd rather listen to them than to a regular broadcast. It might increase the sale of short wave sets too." We suppose every one of our readers who listens to the short waves will sympathize with Mrs. Morton in her "pet peeve." Under the laws that govern them, these amateurs are forbidden to use any matter smacking of broadcasting but it does seem as if some concerted movement should be undertaken to develop their conversational powers. Almost without exception their talk seems painfully forced and it is evident that they just don't know what to say next. "Well, I guess that'll be all

now, old man" and then after some long ah-hhhs—"You are coming through fine, old man; well I guess that'll be all now, old man" and so on and on and on. We recommend to their excellent organization, the American Radio Relay League, that these youngsters be taught how to talk as well as how to send code and the suggestion is a serious one, for the sort of palaver that goes on now is bound to create a strong public feeling that the boys are merely encumbering the air and ought to give up their choice wave-lengths to some more valuable purpose. QST; please copy.

Army Broadcasters

Those mysterious stations, EQ-7 and EW-7 have been traced to their respective lairs by our readers. E. A. Feichtner, 53 Chestnut Lane, Erie, Pa., and Earl R. Roberts, Cambridge, Ohio, report upon them as follows: EW-7 is located in Jackson, Michigan, and is owned by the 119th Field Artillery, Headquarters Battery, 2nd Battalion of the U. S. Army Corp. John B. Osburn, 1321 North Waterloo Ave., Jackson, Mich., in charge. EQ-7 is at Lansing, Corp. Cross in charge. These are both Army stations and their permits are issued by the War Department. The stations use 50 watts power and are supposed to reach out about twenty miles although the distance from Jackson to Lansing is about 38 miles. They test with each other on Tuesdays at 2:00 a. m. EST. Mr. Roberts comments as follows: "I picked them up Tuesday, Feb. 14th, at 3:00-3:17 a. m. EST. on 750 kcs. EW-7 uses a directional aerial pointing East and has been heard in Hartford, Conn." Mr. Feichtner adds: "They expect to broadcast every Tuesday and Wednesday morning between 2:00 and 3:30 on 750 or 800 kcs. EW-7 is anxious to see how far out he is getting so if you live at a distance, he would greatly appreciate hearing from you. They use code quite a bit but they announce often."

It seems very strange that our laws

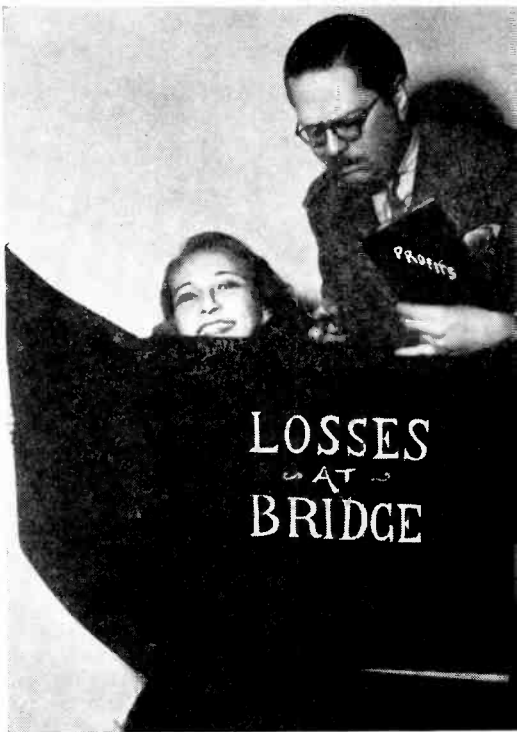
permit the Army to set up stations on the broadcast band and use as their call the letter E which belongs to other nations.

Experience with Batteries

"We have been using the Ever-ready 1000-hour aircell A battery," reports P. J. Hoffmann, Anaheim, Sask. "This held up well but last fall we decided to try a two-volt wet battery. The results were unsatisfactory and we noticed our set did not seem to reach out as far as it used to do with the aircell battery. We found that we should have taken out the resistor which was used with the set when using the aircell. We did not remove it but put in a jump-wire which eliminated the resistor. Immediately our set functioned better than ever; in fact, daylight reception of U. S. A. stations which had been very difficult, was so much improved that one day we got WABC, New York, at 10:30 a. m., MST. At night we are able to reach out and have no difficulty pulling in most eastern stations such as KDKA, WBZ, WBZA, WOR, WVIC, WBT, WLWL, WRVA and many others. Last night at 11:45 p. m. MST, we caught KGU, Honolulu. There was considerable static and we had quite a time holding on until the station announcement was made; we got the call letters but nothing else but we are certain we can catch this station again and then verify our reception."

KZRM AGAIN

"After having read in several issues of RADEX that KZRM will not verify reports of reception," says Dora Newcomb, Oxnard, Calif., "wish to say that I believe they will if approached in the right manner. For instance, when writing to them on October 24th, after logging their entire program from 2:51 to 4:00 a. m. PST, I particularly asked them to write 'Reception verified' on their usual blue card of acknowledgment. I told them of the necessity of this as I could not count their station as logged without this notation. When the card arrived,



The profit and loss account of the "Easy Aces" is something terrible. Jane thinks Ace is "downright abdominal" about it. CBS Tuesday, Thursday and Saturday at 8:00 p. m. EST. Photo by Maurice Seymour Studios

Mr. B. H. Silen, Broadcast Manager, had complied with my request. In a few days another fine verification arrived in the form of a letter from Rajah Chanda, Astrologer, of KZRM. I believe if the DX fans will go carefully into detail about the necessity of verifications, giving plenty of material for verification, that KZRM will be glad to do it. Impress upon them the necessity of those precious words, 'Reception verified.'

Raymond Corbett, 619 12th St., Sacramento, Calif., also submits his original verification card received from KZRM. He received them but once but heard them then very clearly. Raymond is getting XGOA, Nanking, China, quite regularly, but best at 3:00 a. m. PST. He also reports that KGU comes in in great shape between midnight and 12:30 PST.

Verifying XEPN

Those who have had trouble getting verification from XEPN, will appreciate this information which comes from Homer G. Gosney, 431 South Elena Ave., Redondo Beach, Calif.: "I have received a reply at last from this station, therefore, on behalf of those concerned, pleased be advised that Jessie Doak, bookkeeper, is in charge of XEPN's correspondence, address Yolanda Hotel, Eagle Pass, Texas. She advised me that XEPN's new postcards would be ready in the near future."

Changing Aerial Works Wonders

"I enjoy RADEX," is the pleasant opening of an interesting letter from Mrs. Carol Ross, P. O. Box 296, Middletown, N. Y. "I have been ill with pneumonia since last Christmas and here it is February, but I have passed the time pleasantly for the most part. Have a four-tube Emerson electric radio and hooked up to that a Sears-Roebuck Silvertone four-tube short wave converter. I found I could not get anything much but locals and calls between 'hams.' Although my husband thought it wouldn't make any difference, I got the radio man to change the aerial from north-south to east-west and, oh, what a difference it made. The very first week long distance stations rolled in. It wasn't any trouble at all to get the big French station in Montreal and I got stations all over the world. EAQ, Madrid, came in fine during its evening broadcast."

Those "Outlaws"

"I got quite a surprise today," writes R. B. Rolfe, 1741 Burnett Ave., Waco, Texas. "While listening to KFJZ in Fort Worth, I heard a station in the background and was very pleasantly surprised to hear the announcer say 'You are listening to WSVS, Buffalo, N. Y.' a 50-watt station." Mr. Rolfe tells us there is a small station at Rosebud, Texas, on the air every day at 9:45-11:00 a. m., but he does not give us their call or frequency. Earl Roberts of Cam-

bridge, Ohio, also mentions some outlaws, WJM, which is the former WAIR moved to Massillon, Ohio, and still using 850 kcs. WUMS is another located somewhere in southern Ohio on about 1385 kcs. What are the Radio Inspectors doing about these unlicensed stations?

Old Issues Available

"I have in my possession every edition of RADEX from No. 51 (September, 1931) to date, and I am curious to know what editions are available prior to No. 51," writes Richard Labate, RFD No. 1, Bordentown Road, Bordentown, N. J. We still have a few copies of the following old issues: 25, 26, 27, 28, 29, 30, 33, 34, 35, 36, 38 and from No. 41 to date. These are available as long as our supply lasts. The price is 25c per copy, five for \$1.00 or ten for \$1.75. We also have a very few of No. 2, published in 1925, but this number was in a 50c edition.

"I would like to ask a couple of questions, perhaps your readers can answer them," remarks Carl M. Hansman, Bethel, Maine. "Where is station NPG? And has CMAY been broadcasting lately on 1200 kcys.? Friday, February 10th, from about 11:00 to 11:30 p. m. EST, there was a Cuban broadcasting on 1200 kcys. I heard the call in English two or three times, and it sounded like CMAY, but the only Cuban on that wave listed in my February RADEX is CMGB. Can anyone explain this?"

How to be an Amateur

We receive a great many inquiries from readers who have become interested in code through their experiences on the short waves. Most of them ask how they may become amateurs. This subject has been fully covered in a booklet issued by the American Radio Relay League, West Hartford, Conn., which may be secured for twenty-five cents.

The chapters include the following: Learning the Code, Building the Receiver, Operation of the Receiver,

Building the Transmitter, the Power Supply, the Transmitting Antenna, Tuning the Transmitter, Arranging the Station, Getting Your Licenses, Going on the Air.

The Long-Wave Stations

A. Gottfried, 2241 Creston Ave., Bronx, N. Y., wants a list of the long wave stations, that is, those below 550 kcs., as he intends to build the one-tuber described in the March and May, 1932, issues of this magazine. We listed fifty such stations in September, 1931, issue No. 51, which we can send to those who do not have it.

"What do you know about a new station in Mexico operating on about 1170 kcs. but announcing 1185?" is an inquiry from P. J. Hauss, 221 S. Butler Ave., Indianapolis, Ind., that the Editor cannot answer. "I am quite sure the call was XETN and I believe he said the power was ten watts."

Has CMW changed back to 1180 from 585? Edward J. Bieglecki, 3309 E. Warren Ave., Detroit, Mich., reports positively identifying CMW on 1180 kcs., Saturday night, Feb. 4th. A new official Cuban list just received shows CMW changed from 585 only to 590.

In answer to a query from Alfredo Rozzundo in the February issue, Howard Sharpless, 564 N. Pearl St.,

Bridgeton, N. J., says: "WKAQ, 1240 kcs., San Juan, Porto Rico, broadcasts regularly from 12:30 to 3:00 a. m. and from 6:30 to 10:00 p. m. their time."

Samuel A. Meyer, Jr., 83 Canterbury Road, Rochester, N. Y., tells us that XEP did not move from Nuevo Laredo to Mexico City but that the N. Laredo station burned down and was not rebuilt. XEP, Mexico City, is a new station with the old call.

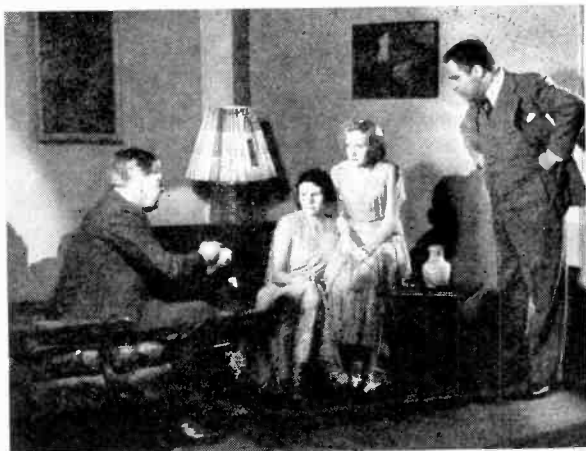
"This Tuesday morning (February 28th) I listened to a station in Havana on 1345 kcys., whose call was like CMBD or CMBE," reports Earl R. Roberts, 105 Gomber Ave., Cambridge, Ohio. "KFPY interfered. The time was 1:30-2:30 a. m."

"What station in Texas broadcasting on 1370 kcs., uses the sound of an airplane as they sign off?" queries I. E. Beitman, 249 Gates Ave., Elyria, Ohio. He heard them on Feb. 11th at 1:06 a. m. EST.

Allen E. Knain, Northwood, N. Dak., experienced interference on 720 kcs. and by careful tuning he brought it out and it was 2YA. Now he says he can raise this station every night three times out of four.

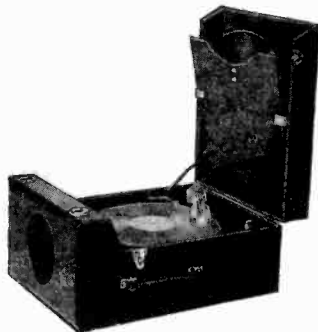
D. C. Hamilton, Jr., picked up a station on 720 kcs. on Feb. 17th which announced the time at intervals in Pacific Standard. Our guess is that this was one of the British Columbia stations on 730.

Jim Hanvey, the famous detective of Octavus Roy Cohen (Thurston Hall) is putting Ann Townsend (Joyce Meredith) and "Shirley Pemberton" (Elaine Temple) "on the spot" while Chief of Detectives "Al Sheppard" (John Hamilton) looks on. On NBC-WJZ net Tuesdays, Thursdays and Saturdays at 7:45 and 11:15 p. m. EST.



The FRC has denied the application for renewal of license of KGDA, Mitchell, S. Dak., for reasons unknown and also refused permission to move the station from Mitchell to Aberdeen.

"What station on 1310 after 11 p. m. CST, announces 'Little Holland, Come to Little Holland,' asks Miss C. A. Brinkerhoff, 317 Clinton Ave., Oak Park, Ill.



A Phonograph with Tubes

AND now the phonograph has gone completely Radio!

Here is a really portable phonograph which uses an electric amplifier and dynamic speaker which reproduces records with a tone quality and volume formerly associated only with large radio-phonograph combinations. Volume may be controlled from a mere whisper to auditorium intensity and a tone-control permits the emphasis of either the high or low frequencies.

The Ansley Portable Dynaphone is manufactured by the Ansley Radio

Corp., 147 West 23rd Street, New York, N. Y. It operates on either alternating or direct current. The turntable is operated by a universal motor. The four-tube amplifier uses one -37, two -89s in push-pull and one -80. The change from a. c. to d. c. is made by a simple plug arrangement. Provision is made for use with a microphone as a portable public address system.

The case, which may be secured in either black or brown, measures 20x14x8½ inches and the weight is 30 pounds.

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SEND THIS BLANK TODAY

The Radex Press, Inc.
Hanna Building
Cleveland, Ohio.

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

- One radio map of North America..... 15c
- One Radio World Map and Time Converter..... 25c
- One copy of the next RADEX..... 25c
- Trial subscription, next five issues of RADEX..... \$1.00
- One year's subscription to RADEX, 10 issues and World Map-Converter, free..... 1.75
- Two subscriptions to RADEX with one leatherette cover and Map-Converter, both free..... 3.50
- One two-year subscription with leatherette cover and Map-Converter, both free..... 3.50
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Write Name Plainly.....

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No extra charge outside the U. S. A.

Verifying Foreign Stations

By OLLIE ROSS

THE greatest disappointment to a DX fan is to receive a program from a distant foreign station, write for verification and then, after weeks of waiting, have the verification fail to come. The fault cannot always be blamed to the broadcasting station for they are happy to verify especially for their distant listeners. The trouble seems to be with the DX fans themselves, for, in nine-tenths of the cases, the report of reception is lacking in details or items heard.

I would advise DXers writing for foreign verifications to use the following course and I am sure they will not be disappointed. First, be absolutely sure to get the call letters of the station, the city and country or any special identification. Second, be sure to have enough of the program so that it can be verified; don't just say "I heard your program" for in this case the station cannot verify. They must know that their program was actually received. Third, be sure always to give the time—your own local standard time. Do not try to figure out their time for often mistakes are made in converting. Fourth, state exactly on what wave length their program was received for in many cases foreign broadcasting stations change their wave lengths without notice.

But the main thing is first to be sure of the station broadcasting, for here, I find, DXers make most of their mistakes. They receive a program on a certain wave length but being unable to get the call, it is often taken for granted that the station listed in the log on that particular wave length is the one that was heard. In many instances this is the wrong station entirely.

During my European tour of broadcasting stations I was allowed to read the letters of our American DXers writing for verifications, and, really,

nine-tenths of them could not have been verified at all. In many instances the date was given one or two days later than the actual broadcast, the exact time was omitted, no details nor items of identification were given.

It must be remembered that broadcasting stations receive hundreds and hundreds of such letters from the DX fans, often two and three weeks after the day of the broadcast, and they must search through their logs to ascertain each particular broadcast for verification.

Every station will verify providing of course enough proof is submitted that their program was received. I have over 1300 verifications and in seven years I have never found a station that refused to verify.

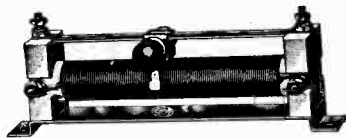
Editor's note: Let us repeat once more—do not send U. S. postage stamps to foreign stations; they are worthless to them. Get an International Reply Coupon from your postmaster and send that for the return postage.

A New

RHEOSTAT

A SMALL, high-quality, inexpensive slide wire rheostat for radio experimenters is presented by G-M Laboratories, Inc., 1735 Belmont Ave., Chicago. Wound on one-piece porcelain form with adjustable contact for varying the resistance, it will dissipate 75 watts continuously. They are supplied in twelve ratings from 5000 ohms, 0.12 amperes to 4.8 ohms, 4 amperes. For service-men a special kit of six rheostats of different ratings, is supplied.

Binding screws at each end of the winding permit the use of this rheostat as a potentiometer.



4-RK Verifies Cricket Game Also . . .

WE thought we had written "finis" to that series of cricket broadcasts. There seemed to be no doubt left that they came from the studios of Poste Parisien on 914 kcs. Many of our readers were chalking up the Paris station in their logs with glee. But—and here's the catch—4RK, Rockhampton, Queensland, Australia, on 910 kcs. is now verifying the reception of the same games! J. W. Robinson, Acting-Manager of 4RK, writes Clyde I. Boyer, 204 N. 2nd St., Darby, Pa., as follows: "We are in receipt of your letter of Dec. 3rd, reporting reception from 4RK. Reference to our log confirms your reception and we congratulate you. We presume you are aware that 4RK is a relay station simultaneously broadcasting 4QG's programs and only on very rare occasions does it provide a local entertainment." P. J. Hauss, 221 S. Butler Ave., Indianapolis, Ind., also received a verification from 4RK but he is now convinced that it was Poste Parisien he heard instead. He bases this conclusion upon the fact that his reception faded as it went on whereas Australia would have been apt to get better.

Of course there is no doubt that Poste Parisien sent out broadcasts covering these games from cable reports but evidently 4RK sent out the actual game play-by-play. Harry R. Kenney, 607 Mt. Vernon St., Camden, N. J., is sure his report was from "ring-side" as one statement was "The heat here is terrible." Leslie G. Briscoe, 3743 Hutchison St., Montreal, is also sure his reception was not read from cables as the announcer mentioned the plays exactly such as "they cross once—twice—three runs" slowly just as they would be called.

Those who logged these cricket matches will have to decide for themselves whether they were tuned to

Poste Parisien or 4RK. Theodore Vail Bullard, South Orleans, Mass., says it is no longer a novelty to tune in Poste Parisien on Cape Cod between 4:30 and 5:30 p. m. When he first tuned them in he was surprised at their volume and clarity and called up some of his friends to tune in and see if they heard what he did and even those with less powerful sets had no difficulty in receiving PP at the same time. Herbert J. Blythe, 3 North Cornwall Ave., Ventnor City, N. J., reports that PP should be an easy catch for Eastern listeners during the early evening hours as he has heard this station several times within the past few days (Feb. 10th) as strong as most U. S. A. high-powered stations. Joaquin T. Russe, 21 Standish St., Provincetown, Mass., thought he had CFLC, Prescott, Ont., on 915, but he distinctly heard "Poste de Parisien, Paree" and then a moment later in the background "CFLC, Prescott." The latter station seemed to be three or four kcs. higher than PP.

E. L. Peters, Box 65, Westport, N. S., tells us that Poste Parisien also broadcast the results of the U. S. A. elections, working in conjunction with the European edition of the Chicago Tribune and the New York Herald-Tribune.

From D. Miller, 88 Eastgate, Inverness, Scotland, comes confirmation of the relay of the cricket games by Poste Parisien which agrees with the reports of the broadcast published in previous issues of this magazine. Mr. Miller adds that he receives the following stations on his "three-valve" set although not regularly: WCAU, Philadelphia, WPG, Atlantic City, WTAM, Cleveland, WTIC, Hartford, WBZ, Springfield and WABC, New York.

Inquiries still come to us regarding mysterious interference between

910 and 915 kcs. Perry Worisiheck, 5 Walnut St., Teaneck, N. J., says he listened to this station which he thought was a Cuban or Mexican for an hour and a half without hearing an announcement. The interfering station on this channel is undoubtedly Poste Parisien.

P. J. Soper, 256 Burroughs Terrace, Union, N. J., sends the schedule of Poste Parisien. Daily, including Sunday, it begins at 5:00 p. m. EST. and ends as follows: Tuesday, Thursday and Friday, 5:30; Monday 5:45; Sunday and Wednesday, 6:00; Saturday, 7:00. After giving news items in French they play the "Marseilles" and leave the air. This station comes in just a hairline below the setting of XEW, Mexico City.

a moment the crowd was in an uproar and were yelling 'They are fighting, they are fighting' and a band began playing. During all this time I never heard one word that would give me any idea where this event was taking place, no station announcement nor name of city. KFAB, Lincoln, went on the air at 6:15 a. m. and cut me out altogether.

"I will thank you very much if there is any way by which you could help me ascertain where this match or bout happened or tell me if it is usual anywhere in North America to hold sporting events at the hour this took place—4:00 to 5:15 a. m. MST—remembering that the announcer used the words 'Tonight'."

Did any other Radexers catch this program?

Now A Wrestling Match

HAVING disposed of the cricket games, now comes a mysterious report of a wrestling bout. The report is from T. W. Rowe, Grand Junction, Colo., who says: "On the morning of Saturday, Jan. 28th, at 4:00 o'clock, I set my dial at 760 kcs. for JQAK, Darien, Japan. Was rewarded with one hour and fifteen minutes of a wrestling or boxing match, very plain and in English. Now what was mystifying was this: I have never heard a wrestling match announced by rounds or a boxing match by such terms as 'hammerlock, toe-hold, neck-hold or shoulders on the mat.' The cheering of the crowd was immense at stages of the game. At the beginning of the fourth round the announcer said, 'You ought to be here and see the crowd that is *here tonight*.' It was then just 4:30 a. m. MST. (Editor's note: This would have been 8:30 p. m. in Japan and 11:00 p. m. in New Zealand.)

"The match or bout went to or through the eighth round where one of the contestants, a Greek, refused to shake hands with the other. In

NNRC DX Tips

The following stations broadcast DX tips for the Newark News Radio Club weekly:

WAAT—Jersey City, N. J.
WHBU—Anderson, Ind.
WDEV—Waterbury, Vt.
WSIX—Springfield, Tenn.
WFAS—White Plains, N. Y.
WHOM—Jersey City, N. J.
WWRL—Woodside, L. I.
WTFI—Athens, Ga.
KFOR—Lincoln, Neb.
WHET—Troy, Ala.
WTAG—Worcester, Mass.
WOMT—Manitowoc, Wis.
CKOV—Kelowna, B. C.
CFCO—Chatham, Ont.
KFXM—San Bernardino, Cal.
KTFI—Twin Falls, Ida.
WNBH—New Bedford, Mass.
10AB—Moose Jaw, Sask.
WMMN—Fairmont, W. Va.
WMBH—Joplin, Mo.
CKPC—Preston, Ont.
KGER—Long Beach, Cal.

Try for OAX, Lima, Peru, on 790 kcs. Monday morning, April 24th, at 4:00 to 5:00 o'clock.

RECEPTION Reports by Readers

• • • *From Scotland to Zealand*

THERE is no doubt about it. Our Radexers are pulling in real foreign stations with much greater frequency than in the past. With the wide-spread reception of Poste Parisien broadcasting the now-famous cricket matches from Europe, South America is coming to the front with both YV1BC at Caracas, Venezuela, and HJN at Bogota, Colombia. Both of the latter stations are now so generally received that we are listing them in our regular indices. Following are a few of our readers who have tuned in HJN recently: George Fabian, 1463 Virginia Park, Detroit; Colvin MacCracken, Vassar College, Poughkeepsie, N. Y.; J. C. Arp, 208 Washington Blvd., Williamsport, Pa.; O. R. Spittler, 4835 Thomas St., Chicago; R. N. Putnam, 920 12th Ave. No., Fargo, N. Dak.; J. A. Shanks, Russellville, Tenn.; A. L. Beaty, 1207 33rd Ave., Tampa, Fla.; Mrs. R. Furlley, R. 6, Mt. Vernon, Ohio; R. M. Ballard, Visalia, Calif.; T. R. Grosvenor, 302 S. Lorraine, Wichita, Kans.

Regarding HJN, Mr. Fabian says: "I think RADEX is right in listing this station on 685 kcs. (Page 78, No. 63) I listened to their very interesting program dedicated to the people of the U. S. A., from 3:14 a. m. until sign-off at 5:02 a. m. EST, Feb. 26th. They were on exactly 685 kcs. and came in with enormous volume. Gave call and location 15 times." Mr. Arp says HJN announced that verifications for the reception of the program on December 17th are now being sent out.

From New Zealand

"Hands across the sea" are reached out to us this month by two readers in New Zealand. "You may be interested in a few remarks on DXing in Invercargill—the most southerly city in the world," writes S. Robson,

of 100 Islington St., in that city, who is, by the way, the President of the New Zealand DX Club. "In some ways we have an excellent locality as we have the whole world to receive. Unlike most parts of New Zealand, we in this city find your American stations the hardest to receive well. Very few of your 100-watters can be heard here and yet Mr. Barnett (December RADEX No. 64) only 110 miles north has a wonderful log of these stations. Europeans are very easily received here; I have heard nearly 70 of them and have just received two of my best verifications—Berlin, Germany, 715 kcs. power 1500 watts, and Lyons, France, 644 kcs., 1500 watts. My best American verifications are KPCB, CFRB, WKBF, WBIG, WCSH, WQBC, KTRH, KTBS, WSMB, and XETR. I have logged at least one station in every continent and, with the exception of a South American station whose verification is not due yet, I have a station on all continents verified. My set is a six-valve Stewart-Warner; aerial 85 feet long, 35 feet high. I have a number of log books on American stations but RADEX is by far the best."

From George E. Bott, 507 Southampton St., Hastings, New Zealand, comes a list of changes in Australasian stations and these corrections together with some from Mr. Robson, will appear in the Index to All World Broadcasting stations which will be found in the coming June issue. Mr. Bott uses a Grebe five-valve battery receiver about six years old with which he has logged 183 stations including about 80 from the U. S.

A Society of Experts

"The International DXers Alliance is unique," writes its President, Charles A. Morrison, 1204 No. Prai-

rie St., Bloomington, Ill., "in that it is open only to those DXers who have verifications from foreign stations on the broadcast band at least 2000 miles away (excluding Cuba, Canada and Mexico). The membership is not restricted to the U. S., as we have members and representatives in Alaska, Yukon, Nova Scotia, Newfoundland, South Africa, Switzerland, Canary Islands, England, Malay, Hawaii, Australia, New Zealand, Siam, West Indies, etc. These qualifying verifications must be passed upon by the President, or one of the directors, before membership is allowed. The dues of \$1.00 a year, in the U. S. and Canada, or \$2.00 in foreign countries, are used to publish a monthly bulletin called the 'Globe Circler,' which contains the latest and most authentic information available concerning the activities of foreign broadcasting stations, letters, special broadcast tips, honor rolls, 'The Best Catch of the Month,' etc. Those possessing necessary verifications may obtain information and application blank from the President, at the above address. Those living in Australia or New Zealand may apply to Mr. F. H. A. Barnett, Dunedin, New Zealand, and those in Europe to Mr. George Evans, Lime Tree Park, Coventry, England."

The T-P Log Brought Them

"Through your Trans-Pacific log I tuned in all the larger Japanese stations, nine of the chain, anyway," reports Len Cooper, 334 Milton St., Nanaimo, B. C. "Other Pacific stations are KGU (which comes in regularly here), ZL2YA, 1YA, VK2BL and 5CK. The Alaskans, KGBU and KFQD, come in good immediately after the nearer stations leave the air. I think your correspondents who calmly jump on reports of freak reception and judge truth by mileage, must not listen in during the early hours. I have a 1932 Marconi 7-tube, and while trying for a small Washington station, heard the announcer state, 'WEXL, Royal Oak, of 50 watts strength,' yet equal in pow-

er at the time to a Vancouver station. Then during the day WIOD came in very strong, although KALE almost local, on the same wave, was missing completely. I have logged 240 stations and heard from all but three states, i. e., Maine, New Hampshire and Vermont, which never seem to do any DX broadcasting. There seemed to be a second broadcast of the cricket match over 850 kcys., and as the announcer continued the program, several listeners here make it from VK2BL."

His Lucky Month

"February has been my lucky month for foreign reception, as well as local this winter," says Earl R. Roberts, 105 Gomber Ave., Cambridge, Ohio. "I received the following foreigners: SBH, Horby, Sweden, on 1166 kcys., from 1:35-2:00 a. m., on a Tuesday morning; Frankfort-am-Main, Germany, on 1157 kcys., from 1:08-1:32 that same morning; Heilsberg, Germany, on 1085 kcys., from 2:05-2:30 a. m., also that morning. Remember my saying I wrote to Heilsberg, thinking that was the station I heard on 1157? Well, I received a card from them saying the station I had was Frankfort, since they used 1085 kcys. Might have known RADEX was right and not that DXer who claimed it was Heilsberg. Consequently, I don't have my veri from Germany yet, but should receive two from there and SBH at about the same time next month. That makes four Europeans now. On the other hand, I logged 2YA, 5CK and 2BL and received my veri from 4BC. Seems funny to me why I cannot get the Japs. I have never even thought I heard one."

"Best Yet" Says Soper

"Radio reception this season is the best in my experience," concludes P. J. Soper, 256 Burroughs Terrace, Union, N. J., "and I have DXed since 1922. There have been few nights this winter when static prevented the reception of a west-coast station. I have kept a log since 1925 and for

the seasons since then I have had KFI on an average of three times a week. This season I am sure there has not been a single night since October that KFI was not audible. No doubt other old-timers could make the same report. I can remember the time when I would be willing to lose a night's sleep in order to hear a Cuban or Mexican station—now I would gladly lose a night's sleep figuring out a way to keep from hearing them interfere with better stations. Mexico must have little respect for quality in radio entertainment when permits to broadcast are given to so many high-powered stations sending out the cheapest form of entertainment. I must, however, make exception of XEW. This station in Mexico City does have fine program features."

A Half-Mile Aerial

"Thanks to RADEX, I have been fortunate enough to log YV1BC (Feb. 11th)," records K. C. Zabawski, Pine Ridge, Manitoba. "To me it seems almost unbelievable to receive such a distant station with volume to spare. I have been DXing just a little over six weeks and my log is now at 223 stations, all heard on the loudspeaker. My best catches are WEXL, 2YA, CMJE and, of course, YV1BC. I have a few hundred-watt stations in Mexico, U. S., and Canada. I own a Minerva 8-tube Super, battery model, and I am sure pleased with it. I get tremendous volume from my barbed-wire aerial which I have found by experiment works the best. I just had an insulated wire soldered to an ordinary fence wire which stretches for half a mile, yet selectivity is just as good as on my 60-foot filtered aerial. I have the Ollie Ross ground and I think it is a good combination. Your magazine is really a Radio Encyclopedia. I have introduced it to quite a few of my neighbors and they, too, say they won't ever be without it."

"I made very good use of your DX tips Saturday night, Feb. 11th," reports J. A. Ringness, Morris, Minn.

"YV1BC came in clearly at 1:25 a. m. CST. after XEAW signed off. Also I heard plainly KGU at Honolulu. Besides these I added to my log WGNV, KIEV, WTRC, KTW, 10-AT, 10-BQ—a pretty good night's work when one already has 665 stations logged. I seemed to be tuned to KZRM at about 4:00 a. m., Sunday morning, but it would blast at that frequency when I increased the volume. This seemed strange as this did not occur at any other place or any other time. Can you tell me what station was broadcasting Newark News Radio Club tips at 1:00 a. m., CST. on 1500 kcs.? I heard some of the tips but did not catch the call letters."

A number of readers have heard stations broadcasting NNRC DX tips and, through the kindness of Louis Hahn, we are giving elsewhere a list of the stations which broadcast for the NNRC regularly.

From Station 10-AT

"We have had wonderful success with our DX programs," writes 10-AT, Trail, B. C. "Using 25 watts we have had thousands of verifications from the Atlantic to the Pacific and as far away as the Hawaiian Islands. We make one stipulation for all verifications: exact time and name of selection played must be given. We have had numerous requests for verifications and many DX fans evidently think because they hear "10-" and some letters that it is 10-AT. As 10-BI in Saskatchewan sometimes uses 1155 kcs. for DX and 10-AB at Moose Jaw is on 1190, they are confusing as to call letters and we will not give verification on call letters only. We are anxious to have our listeners write to us but we wish to be sure that it is 10-AT they heard."

"I received a station on 1360 or 1370 kcs., but could not get the call letters or city," reports Earl Sucher, 6340 Isabella Ave., St. Louis, Mo. "The only thing I could get was their slogan 'The Voice of the West.' I

am very anxious to find out what station this is." In the Index by Frequencies in the May issue of this magazine, we will give, in place of our usual data, the owners, mail addresses, and points that are usually given in announcements such as the names of buildings, hotels, etc., and the slogans used. Unfortunately we do not find among them, the slogan "The Voice of the West." Who can identify it?

A Night of Nights

"The night of January 27th-28th can go down in radio history as a night of nights for strength of radio signals," concludes Hugo L. Markland, Box 401, Steamboat Springs, Colo. "I started at 1500 kcs. and after pulling in KPQ, Wenatchee, Wash., and KVO, El Centro, Calif., a couple of hundred-watters, I kept going up the dial picking up five other 100-watters. Then at 2:05 a. m. MST., after KHJ signed off, I picked up KGBU, Ketchikan, Alaska, with his program and advice to fur trappers, and then in quick order I got the following: 2BL, 4QG, 2YA, JOQK, JOAK, JOIK, JOHK, and JOBK."

"I have no opportunity to DX except during holidays and occasionally weekends," says Carl M. Hansman, Bethel, Maine. "But despite this great handicap, I have built up a log totaling 433. I have received stations from 46 states and the District of Columbia (Arizona and Wyoming alone being missing) and I have also had stations in seven foreign countries. I have heard 30 stations on the Pacific Coast, and have a total of 48 stations from over 2000 miles."

From a Cuban DXer

From a subscriber in Cienfuegos, Cuba, Enrique Hidalgo, Prado 210, comes a report of his DX experiences: "I do not think there is a more fascinating hobby than DXing although the geographical location of this city is not good for DX purposes. My best catch so far is KGNO, a 100-

watter, of Dodge City, Kansas, 1500 miles from Cienfuegos. Other good catches are WKAQ, HIM and HJN, Bogota. You are responsible for my tuning in WOPI, WNAD and YV1BC. What a thrilling moment I had when YV1BC bade goodbye saying 'Buenas noches' three times and then 'Good night.'"

"KFAB and WBBM still continue to exchange signals with very bad results," observes Gerald McGrath, 2211 South Clinton St., Sioux City, Iowa. "WBBM makes a bad mess of KFAB. Chicago has plenty of radio service and WBBM ought to move out and let KFAB hold that wave or else make up their mind on when to share time." Gerald says 2BL comes in on some of their morning programs loud enough to be heard across the street. He has a variometer, evidently in series with his antenna, which he says boosts volume and helps selectivity.

One from Mexico

Manuel R. Medrano, 710 Juarez Ave., Juarez, Chih., Mexico, states that although his location is "terrible" he has received 339 stations of which 28 are 100 watts or less. He uses a Model 480, 1933 Atwater Kent all-wave receiver and suffers greatly from power-line noises which are "working in my set 24 hours a day." We feel sure that our Juarez friend and many other similarly afflicted will benefit from Mr. Dashiell's article in this issue.

"Very disgustedly yours," signs Joaquin T. Russe, 21 Standish St., Provincetown, Mass. In spite of the fact that he can pull in YV1BC at 5:15 any night and WKAQ at 5:30 and has had KOA and KNX at 7:00 p. m., yet he just cannot get a JO or a VK even though he gets up at three and four o'clock every morning. He says his new Majestic 12-tube will bring in hundred-watters on the Pacific Coast without any trouble at all but his heart is set on Australia and Japan and he wants someone in the East who gets the T-P's to tell him how and when.

G. Dana Boylan, 2205 Monroe St., Wilmington, Del., tells us his two-tube battery set is regenerative as we suspected (page 25, January) but as Dana is in the radio business we feel sure he is able to keep it from oscillating and driving his neighbors insane. He now reports logging KGMB, the 250 watt Honolulu station, on the morning of Jan. 3rd, and he considers their verification his prize.

J. T. Campus, P. O. Box 252, Strathmore, Calif., says he picks up KGU, Honolulu, every night around ten o'clock, PST., but they come in best after 10:30 after XER signs off. Mr. Campus used to live in Hawaii and would like to hear from readers in the Islands. He uses a Model 95 Philco and receives Alaska, Porto Rico, Manila, Manchuria, Korea, Salvador, New Zealand, Cuba, Australia, and Japan.

"The last two Sunday mornings I have tuned in on CMJK, Camaguey, Cuba, on 790 keys., from 3 to 4:30 a. m.," comments A. W. Jollin, 44 Benefit St., Worcester, Mass. "They were reading letters sent in by fans from the U. S. As they do not send verifications, they would verify the fans' letters over the station by reading the letter and then saying, 'O. K., verified!'"

Is VPN Back Again?

Paul W. Craven, 190 Commonwealth Ave., Buffalo, N. Y., reports receipt of a verification from VPN, Nassau, Bahamas, dated Jan. 30th. He picked them up from 1:00 to 1:30 p. m., on Jan. 22nd. Evidently this station is again on the air. Who else has heard them and what was their frequency?

"At last I have a catch that anyone can be proud of," declares Robert Rosenberger, 17 Janssen Place, Kansas City, Mo. "Although I have had stations in 26 different countries, I consider RV26 in Stalino my best yet. They were doing some 'Gazot-skies' and announcing in Russian."

Station WHDL notifies the NNRC

that it has adopted a strict rule that only those reports will be verified which bear a postmark within 24 hours of the broadcast. This is a policy that could well be adopted by all stations.

Thumb-Nail Records

"I thought that you would be interested in having a DX record that I have kept from September 25th to December 9, 1932," writes Granville H. Wood, 249 Thomas Ave. So., Minneapolis, Minn. "During this time I have received 214 stations including 29 out of 48 states in the U. S. Also have received 7 Canadian stations, and 6 Mexican. They are XER, XEB, XEFO, XEGN, XEW and XEPN. These stations were received using a 5-tube superhet Jackson Bell receiver."

"There is one thing I have been looking for in RADEX that I have been unable to find," remarks C. L. Powell, 6837 Ave. S., Houston, Texas. "I have not seen any letters from a Texan showing their log for distance. I would like to hear from someone in Texas who is breaking through all these Mexican and Cuban stations. I have a 12-tube Silvertone and in the month I have had it, have received over 150 stations, but only on the North American Continent and Cuba."

"I am 16 years old," admits Reinhold Peterson, 2516 So. Lenox St., Milwaukee, Wis., "and I have been DXing since January, 1931. I have been using a pair of your headphones and adapter for a year. So far my log totals 398 stations, including 29 in California, 8 in Washington, 8 in Oregon. I have heard every state except several in the New England group. On December 4th I heard KGCX, Wolf Point, Mont., coming in fine, for about four straight hours."

"I have logged about 75 stations during the past few months," writes Ralph V. Caldwell, R. D. 1, Clarks-ville, Pa. "I have at least one station in all states but Wyoming, with 20 in California. I have 125 stations

of 100 watts or less with a total of 548. I have a dozen Cuban stations, including CMGC, a 30-watter; CMGE, 30-watter; also WKAQ, Porto Rico. Most of these I have received on a 3-tube Philmore radio."

"I use a Crosley 42-S which I have had for three years," says W. H. Waters, Wyaconda, Mo. "I think my best catch is KPCB, 100 watts, Seattle. I picked this station up one morning as loud as some thousand-watters. I use the ground wire on the antenna post; nothing on the ground post. I have every channel from 540 to 1500 and 41 of the states. My total is 299 on the b. c. band with 10 or 15 police."

"I have a 9-tube Philco baby-grand superhet and have logged 166 stations," reports Fred Ansell, 3101 N. Natoma Ave., Chicago, Ill. "I have 39 states, quite a few Canadians and Mexicans and one Cuban, CMC. I use a short picture mold aerial and no ground. The reason for no ground is this: When I run a wire from the radiator or cold-water pipe there is quite a large spark."

Likes the DX Calendar

"I hope you continue to print the DX calendar, for without it I probably would not have over 75 percent of the stations that I have logged," says N. A. O'Harra, 1712 N. 4th St., Columbus, Ohio. "I got six new Canadians within a space of twenty-five minutes, which brought my total to 481, using an Amrad 81 receiver, with 90 feet of aerial including lead to the set."

"With my Atwater Kent Model 82 I have been successful in tuning in 548 stations," advises Fred Wake-rell, 68 Rochester St., Ottawa, Ont., "according to your way of counting stations. Do you really think a frequency change should count as a new station? My best efforts are 2CO, Corowa; YV1BC, Caracas; KGBU, Ketchikan; HHK, Port-au-Prince, and WKAQ, San Juan."

"Thanks to your tips," says Earl R. Roberts, 105 Gomber Ave., Cambridge, Ohio, "I logged CMJF very

loud, CKIC like a local, and CFJC weakly, this morning. Last night I heard CMBW at 9:30 on 955 keys., and CMBZ loud at 8:30 on 1005 keys. XEAW, Reynosa, has been very loud on 960 keys., to midnight and after. Also XEPN, Piedras Negras, on 885, with 75 kw to 11 p. m."

His Greatest Season

"This year has been the greatest DX season for me in my three years of trying," says Bruce Vaughan, 1312 Tenth Ave., Huntington, W. Va. "I have logged a new one each day since early August. I now have 28 Californians and have only six states yet to log, namely, Delaware, Idaho, Montana, Nevada, Wyoming and Vermont. I use a Majestic model 70."

"I have received eighty 100-watt stations, 43 being over 500 miles distant, 13 over 1,000 miles, and 4 over 1,500 miles; also five 50-watters and two 10-watters," reports Walter W. Bronson, 2nd, 1485 Chapel St., New Haven, Conn. "The best catches on my log of 370 stations are: ZYA, 4QG, YV1BC, KUMA, KIDW, KFXJ, KGEK and KGGM."

"I have been Dxing for about two years, but as my parents have not become as interested in it as I am, I haven't been able to sit up very late at night," confesses James Owen, 1019 W. Webster St., Springfield, Mo. "Up to this time, however, I have received 327 different stations, including 8 shortwave."

"I use a one-tube d.c. receiver, using a 201-A tube. I had the set built last March and since then I have received 150 stations," writes George Greensward, Brampton, Ont. "Here are some of my best catches: KECA, Los Angeles; KNX, Hollywood; KEX, Portland, Oregon; WDAE, Tampa; KVOR, Colorado Springs."

"Although I have not verified any, my total number of stations is 209," reports Clayton Lamb, 125 W. Cleveland St., Stockton, Calif. "Some of my best catches are XEN, JOAK, JOIK, JOCK, JFAK, WRHM, JOBK,

(Continued on page 79)

The Book of the Air

WITH the introduction of the new, small tubes, efficient radio receivers are being packed in unbelievably small cabinets. Resembling a pair of beautiful books, this Stewart-Warner Receiver operates on both a.c. and d.c. and special adapter cords make it available for use on 6, 12 and 32-volt d.c. as well as the 220-volt currents of steamships and foreign countries.



An ingenious, powerful circuit embodies the latest tube equipment—36 power output, -39 r. f. and 12Z3 rectifier. It has a wide range of tuning enabling the listener to bring in police calls in addition to the regular b. c. stations.

The manufacturers claim that the quality of tone is surprising, comparing favorably with large radios. The sets come in seven editions, a variety of colors in handsome leatherette and

rich leather bindings with gold stamping on the backs and covers.

What a far cry from the huge, ugly cabinets of just a few years ago.

This Month's Changes

FREQUENCIES

579	HIX	Santo Domingo, D. R., from 630
590	CMW	Havana, Cuba, from 585
660	CMAF	Havana, Cuba, from 680
1015	XEJ	Juarez, Mexico, from 1000
1020	XEFC	Merida, Mexico, from 1050
1185	CMBN	Havana, Cuba, from 1444
1230	CMBY	Havana, Cuba, from 1235
1230	CMCA	Havana, Cuba, from 1235
1240	CMJN	Camaguey, Cuba, from 1270
1335	CMJI	Ciego de Avila, Cuba, from 1260
1340	KGDY	Huron, S. D., from 1200
1360	CMJP	Moron, Cuba, from 1310
1365	CMCR	Havana, Cuba, from 1375
1405	CMCH	Havana, Cuba, from 1395
1405	CMCM	Havana, Cuba, from 1395
1485	CMBR	Havana, Cuba, from 1500

POWER

660	CMAF	Havana, Cuba, 1000 to 500
780	WEAN	Providence, R. I., 250 to 500
890	WJAR	Providence, R. I., 250 to 500
1015	XELR	Juarez, Mexico, 100 to 500
1030	XEB	Mexico City, Mexico, 1000 to 10000
1075	XEG	Mexico City, Mexico, 250 to 500
1110	CMJO	Ciego de Avila, Cuba, 15 to 50
1150	CMJH	Ciego de Avila, Cuba, 50 to 30
1185	CMBN	Havana, Cuba, 30 to 150
1230	CMBY	Havana, Cuba, 350 to 250
1290	KLCN	Blytheville, Ark., 50 to 100
1335	CMJI	Ciego de Avila, Cuba, 5 to 45
1340	KGDY	Huron, S. D., 100 to 250
1370	XEPV	Juarez, Mexico, 50 to 100
1460	KSTP	St. Paul, Minn., 10000 to 25000

NEW

560	XEAO	Mexicali, Mexico
660	XEM	Matamoros, Mexico
685	HJN	Bogota, Colombia
875	XEAD	Mexico City, Mexico
1090	XEAL	Mexico City, Mexico
1295	XEAC	San Luis Potosi, Mexico
1340	WLEF	Portland, Maine
1450	XEAB	N. Laredo, Mexico

OWNERS

630	WMAL	Washington, D. C., to National Broadcasting Co.
970	KJR	Seattle, Wash., to Fishers Blend Stations, Inc.
1185	CMBN	Havana, Cuba, to G. de Sequeira
1200	KGHI	Little Rock, Ark., to Lloyd Judd Co.

PERMIT TO CHANGE LOCATION

560	KTAB	San Francisco, Calif., to Oakland, Calif.
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THE RADEX MARKET PLACE

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WHAT'S ON THE AIR TONIGHT?

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

COLUMBIA (C).....WABC NATIONAL, Red (R).....WEAF NATIONAL, Blue (B).....WJZ

Call	Dial	Call	Dial

Call	Dial	Call	Dial

Call	Dial	Call	Dial

TIME—E Eastern Standard; C Central Standard; M Mountain Standard; P Pacific Standard.

RADEX is the only publication listing stations in alphabetical order for your convenience.

Editor's Note: These programs are correct at the time of going to press but are subject to change thereafter.

MONDAY

E-5:45 p.m., C-4:45, M-3:45, P-2:45
B — Little Orphan Annie
 CKGW KDKA WBAL WBZA WCKY
 WGAR WHAM WIS WJAX WJR
 WJZ WRVA WWSN

E-6:00 p.m., C-5:00, M-4:00, P-3:00
C — Elizabeth Barthell
 CFRB CKOK KFAB KFH KLZ
 KMOX KSCJ KSL KTRH KVOR
 WAAB WABC WADC WBCM WBIG
 WBRC WBT WDAE WDBJ WDDO
 WDRG WDSU WFAN WFBL WFLA
 WGR WGST WHBC WIP WISN
 WJAS WKBH WKBN WLWB WLZB
 WNAJ WNOX WODX WOKO WORC
 WQAM WREC WSBT WWSA WWSJ
 WSPD WTAQ WTOG
R — Waldorf-Astoria Orchestra
 CKGW KFYZ KGO KOA KPRC
 KSD KTBS WBSN WCAE WCKY
 WCSH WDAF WEAF WENR WFBR
 WFI WHO WIBA WIOD WJAR
 WKY WMC WOI WOC WRC WSB
 WWSB WTAG WWSN

E-6:15 p.m., C-5:15, M-4:15, P-3:15
C — Reis and Dunn
 CFRB CKOK KFAB KFH KLZ
 KMBC KSCJ KSL KTRH KVOR
 WAAB WADC WBCM WBIG WBRC
 WBT WCAO WDAE WDBO WDDO
 WDSU WEAN WFAN WGR WHBC
 WIP WISN WJAS WJSV WKBH
 WLWB WLZB WNAJ WOKO WORC
 WQAM WSBT WWSA WWSJ WSPD
 WTAQ WTAR WTOG

E-6:30 p.m., C-5:30, M-4:30, P-3:30
C — Jad Salt Program
 CFRB WABC WCAO WCAU WHK
 WKBW WKRC WSPD
R — King Kong Drama
 KFYZ KGO KGW KHQ KOA KOMO
 KPRC KSD KTBS KTHS KVOO
 WEAF WFBR WFI WIBA WIS
 WMAQ WMC WOI WSB WWSB
B — Three X Sisters
 KSO KWCR KWK WBAL WJZ
 WREN WSYR

E-6:45 p.m., C-5:45, M-4:45, P-3:45
C — Just Plain Bill
 CKOK WAAB WABC WCAO WCAU
 WHK WJSV WKBW
R — Andrea Marsh
 KFSD KGO KGW KOMO KSD
 WBSN WCAE WDAF WEAF WFBR
 WHO WIS WJAR WMAQ WMC
 WOC WSAI WSB WSM WTAG
 WWSN

B — Lowell Thomas
 CKGW KDKA WBAL WBZ WBZA
 WGAR WHAM WJR WJZ WLW
B — Little Orphan Annie
 KFYZ KOIL KPRC KSO KSTP
 KTBS KWCR KWK WBAF WDAY
 WBCB WENR WKY WOAI WREN

E-7:00 p.m., C-6:00, M-5:00, P-4:00
C — Myrt and Marge
 CKOK KRLD WBAC WADC WCAO
 WCAU WDRG WEAN WFBL WGR
 WHK WJAS WJSV WKRC WNAC
 WOKO WSBT WSPD WWSA
B — Amos 'n' Andy
 CKGW KDKA WBAL WBZ WBZA
 WCKY WFLA WGAR WHAM WIOD
 WJAX WJR WJZ WLW WPTF WRC
 WRVA WWSN
R — Gruen and Hall, Piano Duo
 KDYL KFI KPSD KFYZ KGO KOA
 KSTP KTBS KVOO KYW WCSH
 WDAF WEAF WBCB WFBR WGY
 WHO WIBA WKY WOC WOW WSAI
 WSM WTAM

E-7:15 p.m., C-6:15, M-5:15, P-4:15
C — Buck Rogers — Year 2433
 CKOK KMOX WABC WBBM WCAU
 WCKO WGR WHAS WHK
R — Wheatonville Ray Knight
 WDAF WEAF WELI WGY WHO
 WJAR WLIT WMAQ WOC WOW
 WRC WTAM WWJ
B — Tastyest Jesters
 KDKA WBAL WBZ WBZA WCKY
 WHAM WJZ

E-7:30 p.m., C-6:30, M-5:30, P-4:30
B — Five Star Theatre
 KDKA KTBS WBAL WBZ WBZA
 WHAM WIS WJZ WMAL WMC
 WPTF WRVA WSAZ WWSB WWSN
C — Dolph Martin's Orchestra
 WABC WCAO WCAU WDRG WEAN
 WFBL WFEA WGR WHBC WHP
 WJAS WJSV WLZB WNAC WOKO
 WORC
R — Elvia Allman
 WCKY WCSH WDAF WEAF WEEI
 WENR WFBR WGY WJAR WSAI
 WTAG

E-7:45 p.m., C-6:45, M-5:45, P-4:45
C — Boake Carter, News Flashes
 CKOK KMBC KMOX WABC WBBM
 WBT WCAO WCAU WCOO WGR
 WHAS WHK WJSV WNAC
R — The Goldbergs
 KFYZ KPRC WBSN WCAE WCSH
 WEAF WEEI WEA WFBR WGY
 WJAR WKY WLIT WOAI WRC
 WTAG WTAM WWJ

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C — Whispering Jack Smith
 CKOK KMBC KMOX WABC WADC
 WCAO WCAU WDRG WEAN WFBL
 WFBM WGN WGR WHAS WHK
 WJAS WJSV WKRC WNAC WOKO
 WSPD
R — Soconyland Sketches
 WBSN WBSH WEAF WEEI WGY
 WJAR WTAG WTIC
B — Cliequot Club Eskimos
 KDKA KOIL KSO KWCR KWK
 WBAL WBZ WBZA WCKY WGAR
 WHAM WJZ WLS WREN

E-8:15 p.m., C-7:15, M-6:15, P-5:15
C — Singin' Sam
 CKOK KMBC KMOX WABC WADC
 WCAU WCOO WDRG WEAN WFBL
 WFBM WGN WGR WHK WJAS
 WJSV WKRC WNAC WOKO WSPD

E-8:30 p.m., C-7:30, M-6:30, P-5:30
C — Fu Manchu Mystery
 CFRB CKOK KMBC KMOX KRLD
 WABC WADC WBT WCAO WCAU
 WDRG WEAN WFBL WGN WGR
 WHAS WHK WJAS WJSV WKRC
 WNAC WOKO WOWO WSPD
R — Voice of Firestone
 CFCE CKGW KPRC KSD KTBS
 KVOO WBSN WCAE WCSH WEAF
 WEEI WFAA on 8-45 WFBR WFLA
 WGY WHO WIOD WIS WJAR WJDX
 WKY WLIT WLW WMAQ WMC
 WOAI WOC WOW WRC WRVA
 WSB WSM WSBM WTAG WTAM
 WTIC WWJ WWSN
B — Don Carney Dog Chats
 KDKA KWK WBAL WBZ WBZA
 WGAR WJR WJZ WLS WREN

E-9:00 p.m., C-8:00, M-7:00, P-6:00
C — Chesterfield Program
 CKOK KBD KERN KFBC KFPY
 KFRC KHJ KLRA KLZ KMBC
 KMJ KMOX KOH KOIN KOL KOMA
 KRLD KSL KTRH KUSA KVI KWG
 WABC WADC WBCB WBT WCAH
 WCAO WCAU WCOO WDAE WDBJ
 WDBO WDRG WDSU WEAN WFBL
 WFBM WGN WGST WHAS WHBC
 WHK WISN WJAS WJSV WKBW
 WKRC WLAC WLZB WMBG WMT
 WNAC WOKO WORC WOWO WPG
 WQAM WREC WSPD WTAR WTOG
R — A. & P. Gypsies
 KSD WBSN WCAE WCSH WDAF
 WEAF WEEI WGY WHO WJAR
 WLIT WMAQ WOC WOW WRC
 WSAI WTAG WTAM WTIC WWJ

MONDAY—(Continued)

B — Sinclair Minstrels
 KDKA KFJR KOIL KPRC KSO
 KSTP KTBS KTHS KVOO KWCR
 KWK WAPI WBAL WBZ WBZA
 WDAY WEBC WFAA WFLA WGAR
 WHAM WIBA WIOD WIS WJAX
 WJDX WJR WJZ WKY WLW WMC
 WOAD WREN WRVA WSB WSM
 WSMB WTMJ WWNC

E-9:15 p.m., C-8:15, M-7:15, P-6:15
C — The Mills Brothers
 CKOK KMBC KMOX WABC WADC
 WCAO WCAU WDRC WEAN WFBL
 WGN WHAS WHK WJAS WJWV
 WKBW WKRC WNCAC WOKO WSPD

E-9:30 p.m., C-8:30, M-7:30, P-6:30
C — Mysteries in Paris
 CKOK KMBC KMOX WABC WADC
 WBT WCAO WCAU WEAN WFBL
 WGN WHK WJAS WJWV WKBW
 WKRC WNAC WOKO WOVW WSPD

R — Paul Whiteman and Orchestra
 KDYL KFI KFSD KFJR KGHL
 KGIR KGO KGW KHQ KOA KOMO
 KPRC KSD KSTP KTAR KTHS
 WBNB WCAE WCHS WDAF WDAY
 WFAF WFGC WEEI WFAA WFBR
 WFLA WGY WHO WIBA WIOD
 WJAR WJAX WJDX WKY WLIT
 WMAQ WMC WOI WOC WRC
 WRVA WSAI WSB WSM WSMB
 WTAG WTAM WTMJ WWJ WWNC
B — Jack Frost's Melody Moments
 KDKA WBAL WENR WGAR WHAM
 WJR WJZ WLW

E-10:00 p.m., C-9:00, M-8:00, P-7:00
R — Contented Program
 CFCT CKGW KFJR KPRC KSD
 KSTP WBNB WCAE WDAF WFAF
 WFGC WENR WFAA WFLA WGY
 WHO WIOD WJAX WKY WMC
 WOI WOC WRVA WSAI WSB
 WSM WTAM WTMJ WWJ

C — Columbia Revue
 CFRB CKOK KLRA KLZ KMBC
 KSCJ KSL KTRH KTSB KVOR
 WAAB WABC WADC WBCM WBOB
 WBIG WBRC WBT WCAH WCAO
 WCAU WCCO WDAE WDBJ WDOD
 WDRC WDSU WFBL WFBM WFEA
 WGST WHAS WHEC WHK WHI
 WJAS WJWV WKBB WKBN WKBW
 WLBW WLDZ WMBD WMT WNAK
 WQAM WREX WSJS WSPD WTOC

B — The Sizzlers, Harmony Trio
 KDKA KDYL KFSD KGHL KGIR
 KGA KOIL KSO KWCR KWK WBAI
 WCKY WJWR WJR WJZ WMAQ
 WREN WSYR

E-10:15 p.m., C-9:15, M-8:15, P-7:15
B — Vic and Sade
 KDYL KFSD KGO KOA KWCR
 KWK KYW WBAL WCKY WJZ
 WREN WSYR

E-10:30 p.m., C-9:30, M-8:30, P-7:30
C — Edwin C. Hill
 CFRB CKOK KLRA KLZ KMBC
 KMOX KSCJ KTRH KTSB KVOR
 WAAB WABC WADC WBCM WBIG
 WBRC WBT WCAH WCAO WCCO
 WDAE WDBJ WDOD WDRC WDSU
 WFAN WFBL WFBM WFEA WGST
 WHAS WHEC WHP WIP WISN
 WJAS WJWV WKBB WKBN WKBW
 WLBW WLDZ WMBD WNAK WNOX
 WODX WOKO WORC WQAM WREX
 WSJS WSPD WTOC

R — National Radio Forum
 KECA KGA KPO KSD KTAR KTBS
 WBNB WBSH WDAF WFAF WEI
 WENR WFBW WFLA WIBA WIOD
 WIS WJAR WJDX WKY WOI
 WRC WRVA WSAI WTAG WTAM
 WWJ WWNC

E-10:45 p.m., C-9:45, M-8:45, P-7:45
C — Myrt and Marge
 KDB KERN KFBK KPFP KFRC
 KGB KHJ KLZ KMBC KMJ KMOX
 KOIN KOL KSL KVI KWG WBBM
 WCCO WDSU WFBM WHAS WLAC

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C — Howard Barlow's Symphony
 CFRB CKOK KFAB KFH KLZ
 KMBC KSCJ KSL KTRH KVOR
 WAAB WABC WADC WBCM WBRB
 WBT WCAO WDOD WDRC WDSU
 WEAN WFAA WFBM WHK WHL
 WICC WIP WISN WJAS WJSD
 WKBN WKBW WLBW WLDZ WMBD
 WNAK WODX WOKO WORC WQAM
 WSBT WSJS WSPD WTAG WTOC

R — Ted Weems and Orchestra
 KFJR KGO KOA KSD WBNB WCAE
 WCKY WDAF WFAF WFGC WFBR
 WGY WHO WIBA WJAR WOC WRC
 WTAG WTAM WWJ

D — Amos 'n' Andy
 KDYL KFI KFSD KGO KGW KHQ
 KOA KOIL KOMO KPRC KSTP
 KTHS KWK WBAF WDAF WENR
 WJDX WKY WMAQ WMC WOI
 WREN WSB WSM WTMJ

E-11:30 p.m., C-10:30, M-9:30, P-8:30
C — Guy Lombardo and Orchestra
 CFRB CKOK KFAB KFH KLZ
 KMBC KMOX KSCJ KSL KTRH
 KVOR WAAB WABC WADC WBCM
 WBRB WBT WCAO WCAU WCCO
 WDOD WDRC WDSU WEAN WFBM
 WHK WHL WICC WISN WJWV
 WKBN WKBW WLBW WLDZ WMBD
 WNAK WODX WOKO WORC WPG
 WQAM WSBT WSJS WSPD WTAG
 WTOC

R — Jack Denny and Orchestra
 WFAF WFBR WJAR WRC WTAG
 WTIC

R — Voice of Firestone
 KDYL KFI KFSD KFJR KGHL
 KGIR KGO KGW KHQ KOA
 KOMO KSTP KTAR WDAY WEBC
 WIBA WTMJ

B — Harold Sanford's Brass Band
 CFCT CKGW KFJR KSO KSTP
 KWCR KWK WBAL WCKY WDAY
 WFGC WENR WFLA WGAR WHAM
 WIBA WIS WJAX WJZ WREN
 WSYR WWNC

E-12:00 p.m., C-11:00, M-10:00, P-9:00
C — Abe Lyman and Orchestra
 CKOK KFAB KLZ KMBC KMOX
 KRLL KSCJ KSL KTRH KVOR
 WABC WBRB WBT WCAU WCCO
 WDOD WDSU WIBW WICC WISN
 WJWV WKBW WLBW WMBD WNAK
 WNAK WOKO WIG WBSB WSPD
 WTOC

B — Freddie Martin and Orchestra
 KDKA KOIL KWCR KWK KYW
 WBZ WBZA WGAR WJZ WRC
 WREN

R — The Goldbergs
 KDYL KECA KEX KGA KJR KOA
 KPO

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

E-6:00 p.m., C-5:00, M-4:00, P-3:00
C — Reis and Dunn
 CFRB CKOK KFAB KFH KLZ
 KSCJ KSL KVOR WAAB WABC
 WACO WBIG WBRB WDAE WDBJ
 WDBO WDOD WDRC WDSU WFEA
 WGST WHP WICC WIP WISN
 WKBB WKBN WLBW WLDZ WMT
 WNAK WNOX WODX WOKO WORC
 WQAM WREX WSBT WSAI WSJS
 WSPD WTAG WTAG WTOC
R — Waldorf-Astoria, See Monday

E-6:30 p.m., C-5:30, M-4:30, P-3:30
R — Mid-Week Hymn Sing
 KFJR KGO KOA KOMO KTBS
 KTHS KVOO WBNB WDAF WFAF
 WFBR WFI WIS WMAQ WMC
 WOI WPTA WSB WSMB WTAG
 WWNC

E-6:45 p.m., C-5:45, M-4:45, P-3:45
B — Lowell Thomas, See Monday
B — Orphan Annie, See Monday
C — Just Plain Bill, See Monday
R — Harding Sisters, Piano Duo
 WBNB WFAF WFBR WFI WIS
 WJAR WMAQ WPTA WRC WSAI
 WSM WTAG WWNC

E-7:00 p.m., C-6:00, M-5:00, P-4:00
R — Vincent Lopez and Orchestra
 KDYL KFSD KFJR KGO KHQ
 KOA KOMO KTBS WCHS WDAF
 WDAY WFAF WEBC WFBR WFI
 WHO WIBA WJAR WMAQ WMC
 WOC WRC WSAI WTAG WWJ
C — Myrt and Marge, See Monday
B — Amos 'n' Andy, See Monday

E-7:15 p.m., C-6:15, M-5:15, P-4:15
C — Buck Rogers, See Monday
R — Wheatonville, See Monday
B — Radio in Education
 KDKA KDYL KECA KEX KFSD
 KFJR KGA KGIR KJR KOA KOIL
 KPO KTBS KVOO KWCR WBZ
 WBZA WENR WFLA WIBA WIS
 WJDX WJZ WMC WOI WPTA
 WREN WSB WSM WSMB WWNC

E-7:30 p.m., C-6:30, M-5:30, P-4:30
C — Keller, Sargent and Ross
 CKOK KMBC KMOX WABC WCAO
 WCAU WDRC WGN WGR WHAS
 WHK WJAS WJWV WKRC WNAC
R — James Melton Tenor
 KYW WBNB WCHS WDAF WFAF
 WFBR WFI WGY WHO WOC WSAI
 WTAG WWJ

E-7:45 p.m., C-6:45, M-5:45, P-4:45
B — Octavius Roy Cohen Mystery
 KDKA KOIL KSO KWCR KWK
 KYW WBZ WBZA WGAR WJZ
 WREN WSYR
C — Boake Carter, See Monday
R — The Goldbergs, See Monday

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C — Easy Aces
 CKOK KMBC KMOX WABC WADC
 WCAO WCAU WCCO WEAN WFBL
 WFBM WGN WGR WHAS WHK
 WJAS WJWV WKRC WNAC WOKO
 WSPD

R — Blackstone, Sanderson-Crumit
 KSD KSTP KYW WBNB WCAE
 WCHS WDAF WFAF WFGC WEEI
 WFI WGY WHO WJAR WOC WOW
 WRC WSAI WTAG WTAM WWJ
B — Eno Crime Club
 KDKA KOIL KSO KWCR KWK

TUESDAY

TUESDAY—(Continued)

WBAL WBZ WBZA WGAR WHAM
WJZ WLW WMAQ WREN

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

C — Magic Voice
CKOK KMBC KMOX WABC WADC
WCAO WCAU WDRC WEAN WFBL
WFBI WFSB WGN WGR WHAS WHK
WJAS WJSV WKRC WNAC WOKO
WSPD

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

C — Kate Smith
CKOK KMBC KMOX WABC WADC
WBGM WCAH WCAO WCAU WCCO
WFBL WFBI WGN WGR WHAS
WHEC WHK WISN WJAS WJSV
WKBB WKRC WOKO WOW WSPD

R — Wayne King and Orchestra
KSD KSTP WBN WCAE WKCY
WCSH WEAF WVEC WEEL WFR
WFI WGY WHO WJAZ WJAX
WMAQ WOC WOV WRC WSAI
WTAG WTAM WTMJ WWJ

B — Horlick-Health Talks
KDKA KOIL KWCR KWK WBAL
WBZ WBZA WGAR WHAM WJZ
WLS WLW WREN

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

C — Abe Lyman and Orchestra
CKOK KMBC KMOX WABC WADC
WCAO WCAU WDRC WEAN WFBL
WFBI WGN WGR WHAS WHK
WJAS WJSV WKRC WNAC WOKO
WOW WSPD

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

C — Chesterfield, See Monday
R — Bon Bernie and Orchestra
KFYR KOA KPBC KSTP WBAP
WBN WCAE WKCY WCHS WDAF
WDAY WEAF WEEL WFR WFI
WGY WHO WJAZ WKY WLS WMC
WOAI WOC WOV WRC WRVA
WSAI WSB WSM WSMB WTAG
WTAM WWJ

B — Household Musical Memories
KDKA KSO KWK WBAL WBZ
WBZA WHAM WJR WJZ WMAQ
WREN

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

C — Threats of Happiness
CKOK KDB KERN KFBK KFH
KFYR KPBC KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOMA
KRLD KSL KTRH KTSB KYI KWG
WABC WADC WBRB WBT WCAO
WCAU WCCO WDAE WDBO WDDO
WDRC WDSU WEAN WFBL WFBI
WGN WGST WHAS WHEC WHK
WJAS WJSV WKBB WKRC WLAC
WNAC WOKO WOV WQAM WREC
WSPD WTAR WTOC

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

R — Ed Wynn-Don Voorhees
CFPC KDYL KFI KFSB KFYR
KGHL KGIR KGO KGW KHQ KOA
KOMO KPBC KSD KSTP KTR
KTBS KTHS KVOD WBAP WBN
WCAE WCHS WDAF WDAY WEAF
WBC WEEL WFR WFI WFLA
WGY WHO WJAZ WJOD WIS WJAX
WJAX WJDX WKY WLW WMAQ
WMAC WOAI WOC WOV WRC
WRVA WSB WSM WSMB WTAG
WTAM WTMJ WWJ WVNC

C — California Melodies
CFBR CKOK KFH KLZ KMBC
KMOX KSCJ KSL KTRH KTSB

WABC WBCM WBIG WBRB WBT
WCAO WCAU WCCO WDAE WDDO
WDRC WEAN WFBI WFLA WHC
WHK WIBW WJAS WKBB WKBN
WLW WLZ WMBD WNAC WNAX
WODX WOKO WQAM WSJS WTAR
WTOC

B — Willard Robison and Orchestra
KDKA KSO KWK WBAL WBZ
WBZA WKCY WENR WJR WJZ
WREN WSYR

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

C — Five Star Theatre
KLRA WABC WBIG WRT WCAO
WCAU WDBJ WDDO WDRC WDSU
WEAN WFBL WFLA WHIP WICC
WJAS WJSV WKBB WLAC WMBG
WNAC WNOX WOBU WOKO WORC
WREC WSJS WTAR

B — Sigmund Spaeth, Tune Detective
CFPC KDKA KOIL KSO KWCR
KWK WBAL WKCY WGAR WHAM
WJR WJZ WMAQ WREN WSYR

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

B — Vic and Sade, See Monday

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

C — Edwin C. Hill, See Monday
B — Ilomay Bailey, Soprano
KSO KWCR KWK WBAL WKCY
WGAR WHAM WJR WJZ WMAQ
WREN

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

C — Charles Carille, Tenor
CFBR CKOK KFAB WAAB WABC
WADC WBGM WDRB WEAN WFBL
WFLA WHC WHK WHIP WJAS
WJSV WKBW WLZ WOKO WOV
WORC WPG WSBT WSPD

B — Professor Jack McLallen
CKGW KDKA KOIL KSO KWCR
KWK WBAL WKCY WGAR WHAM
WJR WJZ WMAQ WREN WSYR
C — Myrt and Marge, See Monday

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

C — Howard Barlow, See Monday
B — Amos 'n' Andy, See Monday
R — Dennis and Renee
CKGW KSD WCAE WKCY WEAF
WFR WHO WOC WRC WSAI WWJ

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

B — Heart Songs, Women's Octet
CFPC CKGW KFYR KGIR KPC
KSTP KTBS KWK WBAL WKCY
WENR WFLA WGAR WHAM WJAZ
WJSV WJZ WMC WRC WREN
WSM WSYR WVNC

B — Octavius Roy Cohen Mystery
KDYL KFC KEX KFJR KGA KJR
KOA KPBC KSTP KTBS WDAE
WIBC WFAA WJAZ WJDX WKY
WMC WOAI WSB WSMB WTMJ

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

C — Isham Jones and Orchestra
CFBR CKOK KFAB KFH KLZ
KMBC KSCJ KSL KTRH WAAB
WABC WADC WBCM WBRB WBT
WCAO WCAU WCCO WDAE WDBO
WDDO WDRC WDSU WEAN WFBI
WHC WHK WIBW WICZ WISN
WJSV WKBB WKBB WLW WLZ
WMBD WNAX WODX WOKO WORC
WPG WQAM WSJS WSPD WTAR
WTOC WVVV

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

R — The Goldbergs, See Monday

B — Cab Calloway and Orchestra
KDKA KOIL KPBC KSO KTBS
KWCR KWK WAPI WBZ WHZA
WFLA WGAR WJOD WJR WJZ WKY
WMC WREN WSB WSM WSMB
WVNC

C — Joe Haymes and Orchestra
CKOK KFAB KLZ KMBC KSCJ KSL
KTRH KYOR WABC WBRB WBT
WCAH WCAU WDAE WDDO WDSU
WFBL WGST WHAS WHK WHP
WISN WJAS WJSV WKBB WLW
WMBD WMT WNAX WNOX WOKO
WPG WREC WSBT WSPD WTOC

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

R — Sam Robbins and Orchestra
WAPI WCAE WEAF WFBW WFI
WFLA WJOD WJAZ WMAQ WMC
WRC WSB WSM WSMB WTAM
WVNC

R — Ben Bernie and Orchestra
KFI KFSD KGO KHQ KOMO KSD
KTR

B — Mark Fisher and Orchestra
KOIL KPBC KSO KSTP KTBS
KWCR KWK WDAY WEBC WENR
WFAA WGAR WJAZ WJR WJZ
WKY WLW WOAI WREN WTAM

WEDNESDAY

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

B — Orphan Annie, See Monday

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

C — Dick Mansfield and Orchestra
CFBR CKOK KFH KLZ KSCJ KSL
KVOR WAAB WABC WACO WBIG
WBRB WDAE WDBJ WDBO WDDO
WDRB WDSU WFLA WGST WHAS
WHC WHIP WISN WKBB WRBN
WLW WLZ WMT WNAX WNOX
WODX WOKO WORC WQAM WREC
WSBT WSPA WSJS WSPD WTAQ
WTOC

R — Waldorf-Astoria, See Monday

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

C — Jad Salt, See Monday
B — Three X Sisters, See Monday
R — Back of the News Wm. Hard
KECA KEX KFYR KGA KJR KOA
KPO KSD KTBS KTHS WBN
WKY WDAE WEAF WFR WJAZ
WJOD WIS WJAZ WMAQ WMC
WOAI WSB WTAG WVNC

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

R — Andy Sannella
KECA KEX KFSB KGA KJR KPO
KSD WBN WCAE WCHS WCF
WFR WFI WHO WIS WJAZ WMAQ
WMC WOC WOV WRC WSAI WSM
WTAG WTAM

C — Just Plain Bill, See Monday

B — Lowell Thomas, See Monday

B — Orphan Annie, See Monday

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

C — Myrt and Marge, See Monday
B — Amos 'n' Andy, See Monday
R — Jacqueline Solomons, Violinist
KDYL KFYR KGO KHQ KOA
KOMO KTBS KYW WDAE WEAF
WFR WGY WHO WJAZ WJAX
WMC WOC WRC WSAI WSB WSM
WTAG

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

C — Buck Rogers, See Monday

R — Wheatonville, See Monday

WEDNESDAY—(Con'd)

E-7:30 p. m., C-6:30, M-5:30, P-4:30
 C — Dolph Martin, See Monday
 R — Elvia Allman, See Monday

E-7:45 p. m., C-8:45, M-5:45, P-4:45
 C — Boake Carter, See Monday
 R — The Goldbergs, See Monday

E-8:00 p. m., C-7:00, M-6:00, P-5:00
 C — Whispering Jack Smith, See Mon.
 B — Eno Crime Club, See Tuesday
 R — George Olsen-Fanny Brice
 KSD WBEN WCAE WGSB WDAF
 WFAE WEEL WBRB WGN WHO
 WJAR WLTP WLS WOC WOW WRC
 WSAI WTAB WTAM WTIC WWJ

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

E-8:30 p. m., C-7:30, M-6:30, P-5:30
 C — Kate Smith, See Tuesday
 R — The Shadow, Mystery Drama
 WBEN WCSH WFAE WEEL WFBW
 WGY WJAR WLTP WRC WTAG
 WTIC

B — Pickens Sisters
 KDKA KWCR KWK WBAL WGAR
 WHAM WIS WJAX WJR WJZ WLS
 WREN WUNC

E-8:45 p. m., C-7:45, M-6:45, P-5:45
 C — Abe Lyman, See Tuesday

E-9:00 p. m., C-8:00, M-7:00, P-6:00
 C — Chesterfield, See Monday

B — Sherlock Holmes
 CFCF CKGW KDKA KOIL KWCR
 KWK WRAL WBZ WBZA WGAR
 WHAM WJR WJZ WLS WLW WREN
 R — General Tire Program
 KFI KFSB KFYP KGHL KGIR
 KGO KGW KHQ KOA KOMO KPRC
 KSD KSTP KTAR KTBS KVOO
 WBEN WCAE WGSB WDAF WDAY
 WFAE WFCB WEEL WFBW WFLA
 WGY WHO WIBA WIOD WJAX
 WJAX WJDX WKY WMAQ WOAI
 WOC WOW WRC WRVA WSAI
 WSB WSM WTAG WTAM WTIC
 WTMJ WWJ WUNC

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

CKOK KDB KERN KFBK KFH
 KFYP KPRC KGB KIL KLRA KLZ
 KMBC KMJ KMOX KOIN KOL
 KOMA KRLD KSCJ KSL KTRH
 K TSA KVI KVG WABC WACO
 WADC WBIG WBRB WBT WCAO
 WCAU WCCO WDBJ WDOD WDRC
 WDSU WEAN WFBI WFBM WGN
 WGST WHAS WHK WTB WISN
 WJAS WJSV WKBB WKWB WKRC
 WLAC WLWB WMBG WMT WNAC
 WNAX WNOX WODX WOKO WOWO
 WREC WSPD WTAR

E-9:30 p. m., C-8:30, M-7:30, P-6:30
 C — Guy Lombardo-Burns and Allen

CKOK KMBC KMOX KOMA KRLD
 KTRH K TSA WABC WADC WCAO
 WCAU WCCO WDRC WEAN WFBI
 WFBM WGN WHK WJAS WJSV
 WKWB WKRC WNAC WOKO WOWO
 WSPD

B — Morton Downey and Donald Novis
 KDKA KDYL KFI KGHL KGIR
 KGO KGW KHQ KOA KOIL KOMO
 KPRC KTAR KTBS KTHS KVOO
 KWCR KWK WBAL WBZ WBZA
 WENR WFAA WGAR WHAM WJDX

WJR WJZ WKY WLW WOAI WREN
 WSB WSM WSMB

E-10:00 p. m., C-9:00, M-8:00, P-7:00
 C — Old Gold—Fred Waring

CKOK KDB KERN KFBK KFPY
 KPRC KGB KHJ KLRA KLZ KMBC
 KMJ KMOX KOIN KOL KOMO
 KSL KTAT KTRH K TSA KVI KVG
 WAAB WABC WADC WBRB WBT
 WACH WCAO WCAU WCCO WDAE
 WDBO WDOD WDRC WDSU WFBI
 WFBM WGN WGST WHAS WHIC
 WHK WTBW WJAS WJSV WKWB
 WKRC WODX WOKO WOWO WQAM
 WREC WRR WSPD

R — Corn Cob Pipe Club
 KDYL KFI KGHL KGIR KGO KGW
 KHQ KOA KOMO KSD WBEN
 WCAE WGSB WDAF WFAE WEEL
 WENR WFBW WGY WHO WJAR
 WLTP WLW WOC WOW WRC WRVA
 WTAB WTAM WTIC WWJ
 B — D. W. Griffith's Hollywood
 KDKA KOIL KPRC KWK WBAL
 WBZ WBZA WFAA WGAR WJR WJZ
 WKY WMAQ WMC WREN WSB
 WSMB

E-10:15 p. m., C-9:15, M-8:15, P-7:15
 B — Vic and Sade, See Monday

E-10:30 p. m., C-9:30, M-8:30, P-7:30
 B — Ruth Lyon Soprano

KSO KWCR KWK WBAL WENR
 WFLA WHAM WIOD WJR WJZ
 WRC WREN WSYR WUNC

R — Carveth Wells

KDYL KFPY KGA KGHL KGIR
 KOA KPRC KSD KSTP KTBS KTHS
 WDAF WDAY WFAE WFCB WFAA
 WFBW WHO WIBA WKY WMAQ
 WOAI WOC WOW WRVA WTMJ
 C — Edwin C. Hill, See Monday

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

C — Little Jack Little
 CFBW CKOK WAAB WABC WCAO
 WDRC WEAN WHIC WLWB WLWB
 WOKO WORC WSPD

E-11:00 p. m., C-10:00, M-9:00, P-8:00
 C — Howard Barlow, See Monday

B — Amos 'n' Andy, See Monday

E-11:30 p. m., C-10:30, M-9:30, P-8:30
 C — Isham Jones, See Tuesday

B — Sixteen Male Voices
 KSO KWCR KWK WBAL WBZ
 WBZA WCKY WENR WGAR WHAM
 WJZ WREN

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

CKOK KFAB KLZ KMBC KSCJ
 KTRH KVOR WABC WBRB WBT
 WCAH WCAU WCCO WDAE WDOD
 WDSU WEAN WFBI WGST WHAS
 WHK WHP WCC WISN WJAS
 WJSV WKWB WLWB WMBD WMT
 WNAC WNAX WNOX WOKO WORC
 WPG WREC WSBT WSPD WTGC

R — The Goldbergs, See Monday

B — Ben Bernie and Orchestra
 KDKA KFYP KOIL KSO KWCR
 KWK WBZ WBZA WFCB WENR
 WFLA WGAR WIBA WIOD WJZ
 WREN WUNC

E-12:15 p. m., C-11:15, M-10:15, P-9:15
 B — Sherlock Holmes

KDYL KFI KFSB KGHL KGIR
 KGO KGW KHQ KOA KOMO KTAR

THURSDAY

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

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

C — H. V. Kaltenborn
 CFBW CKOK KFAB KPH KLZ
 KSCJ KVOR WAAB WABC WACO
 WBIG WBRB WDAE WDBJ WDOD
 WDOD WDRC WDSU WEAN WFAE
 WGST WHAS WHIC WHP WIP WJZ
 WIP WISN WKBB WKBN WLWB
 WLWB WMT WNAX WNOX WODX
 WOKO WORC WQAM WREC WSBT
 WSPA WSJS WSPD WTAG WTAR
 WTGC

E-6:15 p. m., C-5:15, M-4:15, P-3:15
 C — Ozzie Nelson and Orchestra

CFBW CKOK WAAB WABC WACO
 WBIG WBRB WCAO WDAE WDBJ
 WDOD WDRC WDRC WDSU WFAE
 WGST WHAS WHP WLWB WLWB
 WNOX WODX WOKO WORC WQAM
 WREC WSBT WSPA WSJS WSPD
 WTAR WTGC

E-6:30 p. m., C-5:30, M-4:30, P-3:30
 R — Three Keys

KECA KEX KFSD KFYP KGA
 KJR KOA KPO KSD KTBS KTHS
 WAPI WDAF WDAY WFAE WFBW
 WFL WIBA WIS WJAR WMAQ
 WMC WOAI WSAI WSB WSMB
 WTAG WWJ WUNC

E-6:45 p. m., C-5:45, M-4:45, P-3:45
 C — Just Plain Bill, See Monday

B — Lowell Thomas, See Monday
 B — Orphan Annie, See Monday

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

B — Amos 'n' Andy, See Monday

E-7:15 p. m., C-6:15, M-5:15, P-4:15
 C — Buck Rogers, See Monday

R — Wheatonville, See Monday
 B — Concert Footlights

KOA KOIL KSO KWCR WBAL
 WIS WJZ WMAQ WREN WSM
 WSYR WUNC

E-7:30 p. m., C-6:30, M-5:30, P-4:30
 C — Keller, Sargent, See Tuesday

E-7:45 p. m., C-6:45, M-5:45, P-4:45
 B — Murder Mystery, See Tuesday

C — Boake Carter, See Monday
 R — The Goldbergs, See Monday

E-8:00 p. m., C-7:00, M-6:00, P-5:00
 R — Rudy Vallee and Orchestra

CFCF CKGW KDYL KFI KFYP
 KGO KGW KHQ KOA KOMO KPRC
 KSD KSTP KTAR WAPI WBAP
 WBEN WCAE WCKY WGSB WDAF
 WDAY WFAE WFCB WEEL WFBW
 WFLA WFLA WGY WHO WIOD WJAR
 WJAX WJDX WKY WMAQ WMC
 WOAI WOC WOW WRC WRVA
 WSAI WSB WSM WSMB WTAG
 WTAM WTMJ WWJ
 C — Easy Aces, See Tuesday

E-8:15 p. m., C-7:15, M-6:15, P-5:15
 C — Whispering Jack Smith

CKOK KMBC KMOX WABC WADC
 WCAO WCAU WDRC WEAN WFBI
 WFBM WGN WGR WHAS WHK
 WJAS WJSV WKRC WNAC WOKO
 WSPD

THURSDAY—(Continued)

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

C—Kate Smith, See Tuesday

B—Rin Tin Tin Thriller

KDKA KOIL KWK WBZ WBZA
WGR WHAM WJZ WLS WLW
WREN

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

C—Abe Lyman, See Tuesday

B—Howard Thurston, Magician

KDKA KOIL KWK WBZ WBZA
WGR WHAM WJR WJZ WLS
WLW WREN

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

R—Maxwell House Showboat

KDYL KFI KFSD KGO KGW KHQ
KOA KOMO KPRC KSD KSTP
KTAR KTBS WAPI WBEN WCAE
WKCY WCSH WDAF WFAF WFEI
WFRB WFL WFLA WGY WHO
WIOD WIS WJAR WJAX WJDX
WKY WMAQ WMC WOAI WOC
WOW WRC WRVA WSAI WSB WSM
WSMB WTAG WTAM WTMJ WWJ
WWNC

C—Chesterfield, See Monday

B—Death Valley Days

KDKA KOIL KWK WBAL WBZ
WBZA WGR WHAM WJR WJZ
WLS WLW WREN

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

C—Mills Brothers, See Monday

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

C—Col. Stoopnagle and Budd

CKOK KDB KERN KFBK KFH
KFPY KPRC KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOL
KOMA KSCJ KSL KTRH KTAT
KTSK KVI KWG WABC WADC
WBRC WBT WCAH WCAO WCAU
WCCO WDAE WDBO WDRC WDSU
WEAN WFBL WFBM WGN WGST
WHAS WHEC WHK WJAS WJSV
WKWB WKRC WLAC WNAC WOKO
WOWO WQAM WREC WRR WSPD
WTAR

B—Wayne King and Orchestra

KDKA KOIL KSO KWCR KWK
WBAL WBZ WBA WENR WJZ
WREN

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

C—The Foreign Legion

CFRB CKOK KLRA KLZ KSCJ
KTRH KTSK KVOR WAAB WABC
WBMM WBIG WBRG WCAO WCAU
WCCO WDAE WDBJ WDBO WDOD
WDRC WDSU WEAN WFBM WFLA
WGST WHEC WHK WHI WBW
WCCO WKBN WLWB WLJZ WMT
WNAX WNOX WODX WOKO WORC
WQAM WREC WSJS WSPD WTAR
WTOC

R—Lucky Strike—Jack Pearl

KDYL KFI KFSD KFYR KGO KGW
KHQ KOA KOMO KPRC KSD KSTP
KTAR KTBS KTRH KVOR WBAW
WBEN WCAE WCSH WDAF WDAY
WEAF WECB WFLH WFNW WFRB
WFI WFLA WGY WHO WBA WIOD
WIS WJAR WJAX WJDX WKY
WLW WMAQ WOAI WOC WOW WRC
WTA WSB WSM WSMB WTAG
WTAM WTMJ WWJ WWNC

B—Carson Robison's Pioneers

CFRC CKGW KDKA KOIL KSO
KWCR KWK WBAL WCKY WJR
WJZ WMAQ WREN WSYR

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

B—Vic and Sade, See Monday

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

C—Myrt and Marge, See Monday

C—Morton Downey

CKOK WAAB WABC WADC WBCM
WCAU WDRC WEAN WFBL WFEA
WHEC WHK WICC WJAS WJSV
WKWB WLWB WLJZ WOKO WORC
WOWO WSPD

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

R—James Melton, Tenor

KSD WCAE WCKY WEAF WFBZ
WRC WSAI WTAG WWJ

C—Howard Barlow, See Monday

B—Amos 'n' Andy, See Monday

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

B—Murder Mystery, See Tuesday

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

C—Isham Jones, See Tuesday

R—Jack Denny, See Monday

B—Willard Robison and Orchestra

CFRC CKGW KDYL KEX KFSD
KFYR KGA KJR KOA KOIL KPO
KSO KWCR KWK WBAL WBZ
WBZA WBCB WFLA WGR WHAM
WBA WIS WJAX WJR WJZ WMC
WRC WREN WSB WSMB WWNC

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

R—The Goldbergs, See Monday

FRIDAY

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

B—Orphan Annie, See Monday

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

R—Waldorf-Astoria, See Monday

C—Do Re Mi Girls

CFRB CKOK KFH KLZ KSCJ KSL
KTRH KVOR WAAB WABC WACO
WBIG WBRG WDAE WDBJ WDBO
WDOD WDRC WDSU WFEA WGST
WHAS WHEC WHI WICC WHI
WIS WKBB WKBW WKWB WLAC
WLWB WLJZ WMT WNAX WNOX
WODX WOKO WORC WQAM WREC
WBSY WBSA WSJS WSPD WTAG
WTAR WTOC

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

B—Three X Sisters, See Monday

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

C—Just Plain Bill, See Monday

B—Lowell Thomas, See Monday

B—Orphan Annie, See Monday

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

C—Myrt and Marge, See Monday

B—Amos 'n' Andy, See Monday

R—Donald Novis, Tenor

KDYL KFYR KGO KOA KOMO
KSTP KTBS KYW WAPI WCSH
WDAF WDAY WEAF WECB WFEI
WFRB WGY WBA WJAR WMC
WOW WRC WSAI WSB WSM WTAM
WWJ

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

C—Buck Rogers, See Monday

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

B—Five Star Theatre, See Monday

C—Dolphin Martin, See Monday

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

C—Boake Carter, See Monday

R—The Goldbergs, See Monday

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

C—Trade and Mark

CKOK KLZ KMBC KMOX KSL
WABC WADC WCAO WCAU WCCO
WDRC WEAN WFBL WFBM WGN
WGR WHAS WHK WJSV WKRC
WNAC WOKO WSPD

R—Cities Service Concert

CKGW KDYL KOA KPRC KSD
KSTP KTBS KYW WBEN WCAE
WCSH WDAF WEAF WECB WFEI
WFAA WFBZ WGY WHO WJAR
WKY WLIT WOAI WOC WOW WRC
WSAI WTAG WTAM WTIC WTMJ
WWJ

B—Nestle's Program

KDKA KOIL KWK WBAL WBZ
WBZA WGR WHAM WJR WJZ
WLS WREN

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

C—Singin' Sam, See Monday

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

C—March of Time

CKOK KDB KERN KFBK KFPY
KPRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KSL KVI KWG
WABC WADC WCAO WCAU WCCO
WDRC WEAN WFBL WFBM WGN
WGR WHAS WHK WJAS WJSV
WKRC WNAC WOKO WOWO WSPD
B—Horlick Program, See Tuesday

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

B—Howard Thurston, See Thursday

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

C—Chesterfield, See Monday

B—First Night, Drama

KDKA KDYL KFI KFSD KGO KGW
KHQ KOA KOIL KOMO KPRC
KSTP KTAR KTBS KWK WAPI
WBAL WBZ WBZA WCKY WECB
WGR WHAM WJR WJZ WKY WLS
WOAI WREN WSB WSM WSMB
WTMJ

R—Musical Grocery Store

KSD WBEN WCAE WCSH WDAF
WEAF WFEI WFRB WGY WJAR
WLIT WMAQ WRC WTAG WTAM WTIC

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

C—Mary Eastman, Soprano

CFRB CKOK KFH KLRA KLZ
KMBC KMOX KSCJ KSL KTRH
KTSK KVOR WAAB WABC WACO
WADC WBCM WBIG WBT WCAH
WCAO WCCO WDAE WDBJ WDOD
WDRC WDSU WEAN WFBL WFBM
WFEA WGST WHAS WHEC WHI
WIBW WICC WISN WJAS WJSV
WKBW WKBW WLWB WLJZ WNAX
WNOX WODX WOKO WORC WQAM
WREC WSBT WSJS WSPD WTOC

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

R—Pond's Program

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

C—Edwin C. Hill, Inside Story

CKOK KFH KLRA KMBC KMOX
KOMA KRLD KTRH KTSK WABC
WADC WBCM WCAH WCAO WCAU
WCCO WDRC WEAN WFBL WFBM
WGN WHAD WHAS WHK WHI
WIBW WJAS WJSV WKBW WKWB
WKRC WLWB WLJZ WMDB WNAC
WOKO WORC WOWO WREC WSPD
B—Armour Program

KDKA KDYL KFI KGO KGW KHQ

FRIDAY—(Continued)

KOA KOIL KOMO KPBC KSO KSTP
KWK WAFI WBAL WJWZ WBZA
WBEC WFAP WGAR WHAM WIOD
WJAX WJWZ WJWZ WKY WMAQ
WMC WOAI WREN WRVA WSB
WSM WSMB WTMJ WWNC

E-10:00 p.m., C-9:00, M-8:00, P-7:30

R — Chevrolet — Jack Benny
KDYL KFI KFSD KFYR KGHL
KGHR KGO KGW KHQ KOA KOMO
KPBC KSD KSTP KTAR KTBS
KTIS KYOO WBEN WCAE WCHS
WDAF WDAI WFAE WFBG WEEI
WENR WJAX WFBZ WFLA WGY
WHO WIBA WJOD WJWZ WJWZ
WJAX WKY WLIT WJWZ WMC
WOAI WOC WOW WRC WRVA WSB
WSM WSMB WTAG WTAM WTIC
WTMJ WWJ WWNC

B — Dorothy Fields — Jimmy McHugh

CFCE KOIL KPBC KSO WBAL
WCKY WHAM WJR WJZ WMAQ
WREN WSYR

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

B — Vic and Sade, See Monday

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

R — Neighbors — Dramatic Sketch
KSD WBEN WCAE WCKY WCHS
WDAF WFAE WEEI WENR WFBZ
WGY WHO WJAX WOC WOW WRC
WSAI WTAG WTAM WWJ
B — Ilomay Bailey, See Tuesday

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

C — Fray and Braggiotti
CFRB CKOK WAAB WABC WACD
WDRG WEAN WFAE WHEC WICC
WIP WJAX WJWZ WKBW WLWB
WLWZ WOKO WORC WPG WSPD
B — Jack McCallen, See Tuesday
C — Myrt and Marge, See Monday

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

C — Howard Barlow, See Monday
B — Amos 'n' Andy, See Monday

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

B — Welcome Lewis, Vocalist
CFCE CKGW KSO KSTP KWCR
KWK WBAL WBZ WBZA WCKY
WFLA WGAR WHAM WIBA WIOD
WJAX WJR WJZ WREN WSYR
WWNC

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

C — Abe Lyman and Orchestra
CFRB CKOK KFAB KFH KLZ
KMBC KSCJ KSL KTRH KVOR
WAAB WABC WADC WBCM WBRC
WBT WCAO WCAU WCCO WDAE
WDBO WDOD WDRG WDSU WEAN
WFHM WHEC WHK WIC WISN
WJWZ WLWB WLWZ WMBD WNAK
WOKO WORC WQAM WSBT WSJS
WSPD WTAR WTOG

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

C — Ben Pollack and Orchestra
CKOK KFAB KLZ KMBC KRLD
KSCJ KSL KTRH KVOR WABC
WBRC WBT WCAU WCCO WDAE
WDOB WDSU WICC WISN WJWZ
WLWB WMBD WNAK WNAK WOKO
WPG WSBT WSPD WTOG
R — The Goldbergs, See Monday
B — Cab Calloway, See Tuesday

SATURDAY

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

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

C — America's Grub Street
CFRB CKOK KFAB KFH KSCJ KSL
KTRH KVOR WAAB WABC WADC
WBBM WBCM WBIG WBRC WBT
WCAO WCAU WCCO WDAE WDBO
WDOD WDRG WDSU WEAN WFEA
WHEC WICC WISN WJWZ WKRH
WLWB WLWZ WNAK WOKO WORC
WQAM WSBT WSFA WSJS WSPD
WTAQ WTAR WTOG WWVA
R — Waldorf-Astoria, See Monday

E-6:30 p.m., C-5:40, M-4:30, P-3:30

B — Laws That Safeguard
KDYL KEX KFSD KFYR KGA KGIR
KJR KOA KOIL KPO KPBC KSO
KSTP KTAR KTBS KTHS KWCR
KWK WBAL WBZ WBZA WCKY
WEEC WFLA WIBA WIOD WIS
WJAX WJR WJZ WKY WMAQ
WMC WOAI WREN WRVA WSB
WSMB WWNC
R — King Kong, See Monday

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

C — The Funnymen
CFRB CKOK KFAB KFH KLZ
KMBC KSCJ KTRH KVOR WAAB
WABC WACO WBBM WBIG WBRC
WCAO WCAU WDAE WDBJ WDOD
WDRG WDSU WEAN WFEA WGSP
WHAS WHEC WHP WISN WJAS
WKBW WLAC WLWB WLWZ WMT
WNAK WNOX WODX WOKO WORC
WQAM WREC WSBT WSFA WSJS
WSPD WTAQ WTAR WTOG WWVA
B — Fields and Hall
WBAL WGAR WHAM WIOD WIS
WJR WJZ WMC
B — Orphan Annie, See Monday

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

B — Vincent Lopez and Orchestra
CFCE CKGW KDKA KDYL KFYR
KOA KSO KTBS KWK WLBA WGBR
WLWZ WCKY WECB WFLA WGAR
WHAM WIBA WJR WJZ WLW
WMC WSB WSMB WWNC
C — Frederic William Wile
KMBC KRLD KTRH WABC WADC
WBBM WBCM WBIG WBRC WBT
WCAO WCAU WDAE WDBO WDOD
WDRG WDSU WEAN WFBM WFLA
WGR WHEC WHK WICC WJAS
WJWZ WLWB WLWZ WNAK WOKO
WQAM WSFA WSPD WTAR WWVA

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

B — Merle Thorpe Talk
KDYL KECA KEX KFSD KFYR
KGA KJR KOA KOIL KPO KPBC
KSTP KTBS KWCR KWK WBAL
WBZ WBZA WECB WENR WFLA
WGAR WHAM WIBA WIOD WIS
WJDX WJZ WKY WMC WOAI
WREN WSB WSMB WWNC

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

C — Street Singer
CFRB CKOK KMBC KMOX KRLD
KSCJ KSL KTRH KVOR WABC
WADC WBCM WBIG WBRC WBT
WCAO WCAU WCCO WDAE WDBO
WDOD WDRG WDSU WEAN WFBM
WFLA WGR WHEC WISN WJAS
WJWZ WKBW WLWB WLWZ WNAK
WOKO WQAM WSFA WSPD WTAQ
WTAR WTOG
B — Murder Mystery, See Tuesday

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

C — Easy Aces, See Tuesday

R — Archer Gibson, Organist

KEX KGA KJR KOA KPO KPBC
KSD KTBS WBEN WDAF WFAE
WEEC WEEI WFI WHO WIBA WIS
WJAR WMAQ WMC WOAI WOC
WSB WSMB WTAG WTAM WWJ
WWNC
B — American Taxpayers' League
KDKA KDYL KEX KFSD KFYR
KGA KGHL KGIR KJR KOA KOIL
KPO KPBC KTAR KWK WAI
WBAL WCKY WDAE WECB WFLA
WHAM WIBA WIOD WJAX WJDX
WJZ WLS WRC WREN WSM WSMB
WWNC

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

C — Magic Voice, See Tuesday
B — Boston Symphony Orchestra
CFCE CKGW KDKA KOIL KSO
KWCR KWK WBAL WBLZ WBZA
WCKY WGAR WHAM WJR WJZ
WREN

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

R — Economic World Today
KDYL KFSD KFYR KGA KFHL
KGHR KJR KOA KPO KPBC KSD
KSTP WAFI WFAE WBEN WCHS
WDAF WDAI WFAE WFBG WEEI
WFBZ WFLA WGY WHO WIBA
WIOD WIS WJAR WJDX WKY
WMAQ WMC WOAI WOC WOW
WRC WSAI WSMB WTAG WTAM
WWJ WWNC

C — Isham Jones and Orchestra

CFRB CKOK KFH KLRA KLZ
KMBC KSCJ KTRH KTHS KVOR
WABC WBIG WBRC WCAO WCAU
WCCO WDAE WDBJ WDBO WDOD
WDRG WDSU WEAN WFBM WFEA
WGST WHEC WHK WHP WIFW
WICC WISN WJAS WKBH WLAC
WLWB WLWZ WMT WNAK WNAK
WNOX WODX WOKO WORC WQAM
WREC WSFA WSPD WTAQ WTAR
WTOG

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

R — Riesenfeld's Viennese Program
KDYL KFI KFSD KFYR KGO
KGW KHQ KOA KOMO KPBC KSD
KSTP KTAR KTBS WAPI WBAP
WBEN WCAE WCHS WDAF WDAI
WFAE WEEI WFBZ WGY WIBA
WJAR WJDX WKY WMAQ WMC
WOAI WRC WSAI WSB WSMB
WTAG WTAM WWJ
C — Chesterfield, See Monday

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

C — Boswell Sisters
CFRB CKOK KFH KLRA KLZ
KMBC KMOX KRLD KSCJ KSL
KTRH KTHS KVOR WAAB WABC
WACO WADC WBBM WBCM WBIG
WBRC WBT WCAH WCAO WCCO
WDAE WDBJ WDBO WDOD WDSU
WEAN WFBZ WFBM WFEA WGST
WHAS WHEC WIBW WICC WIP
WISN WJAS WJWZ WKBH WKBW
WLWB WLWZ WMT WNAK WNOX
WODX WOKO WORC WOW WQAM
WREC WSPD WTAR WTOG

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

R — George Olsen and Orchestra
KDYL KFI KFSD KFYR KGO KGW
KHQ KOA KOMO KSD KSTP WBAP
WBEN WCAE WCHS WDAF WDAI
WFAE WEEC WEEI WFBZ WFI
WGY WHO WIBA WJAR WKY WLW
WMAQ WOAI WOC WOW WRC
WSAI WSB WTAG WTAM WTMJ
WWJ

SATURDAY—(Continued)

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

C—Guy Lombardo and Orchestra
CFRB CKOK KFH KLRA KLZ
KMBC KMOX KSCJ KSL KTRH
KTSB KVOE WAAB WABC WBBM
WBIG WBRC WCAO WCAU WCCO
WDAE WDBJ WDBO WDOO WDRC
WDSU WEAN WFBM WFEA WHEC
WHAS WHIC WHIK WHP WJRW
WICC WJAS WJSP WKBB WKBW
WLAC WLAW WLWB WMBD WMT
WNAK WNOX WODX WOKO WORC
WQAM WREC WSJS WSPD WTAR
WTOC

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

R—B. A. Rolfe and Orchestra
CFPC CKGW KDYL KFI KGO
KOA KSD KSTP WBAP WBEN
WCAE WCHS WDAF WEAF WEEL
WFBR WFI WGY WHO WJAR
WLAW WMAQ WOC WOV WRC
WSB WSMB WTAG WTAM WWJ

E-10:30 p.m., C-9:15, M-8:15, P-7:15

C—Public Affairs Institute
KFH KLZ KSCJ KTRH KTSB KVOR
WAAB WABC WADC WBBM WBCM
WBIG WBRC WBT WCAO WCAU
WCCO WDAE WDBO WDOO WDRC
WDSU WEAN WFBM WFEA WHEC
WICC WJAS WJSP WKBB WLWB
WLWB WMBD WNAK WOKO WORC
WPG WQAM WSBT WSJS WSPD
WTAR WTOC WWVA

B—Salon Singers
CFPC CKGW KDKA KOIL KSO
KWCR WBAL WBZ WBZA WGAR
WHAM WJZ WMAQ WREN

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

C—Cuckoo Program
CKGW KDKA KOIL KSO KWCR
KWK KYW WBAL WCKY WGAR
WHAM WJZ WREN WSYR

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

C—Gertrude Niesen
CFRB CKOK KFH KLRA KLZ
KMBC KSCJ KTRH KTSB KVOR
WAAB WABC WBIG WCAO WDAE
WDBJ WDBO WDOO WDRC WDSU
WEAN WFEA WGST WHAS WHEC
WHK WHP WICC WIP WISN WJAS
WJSP WKBW WLAC WLWB WLWB
WMBD WMT WNAK WNOX WODX
WOKO WORC WPG WQAM WREC
WSBT WSJS WSPD WTAR WTOC
WWVA

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

B—Buccaneers, Vocal Trio
CFPC KDKA KOL KSO KWCR
KWK WBAL WBZ WHAM WJZ
WREN

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

R—Jack Denny and Orchestra
KSD WBEN WCAE WCKY WCSH
WDAF WEAF WFEL WFBR WFI
WGY WHO WJAR WMAQ WOC
WIC WSAI WTAG WWJ

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

B—Low White, Organist
KOIL KSO KWCR KWK WBAL WBZ
WBZ WGAR WHAM WJR WJZ
WIC WREN

B—Murder Mystery, See Tuesday

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

C—Leon Belasco and Orchestra
CFRB CKOK KFAB KLRA KLZ

KMBC KSCJ KTRH KVOR WAAB
WABC WACO WBRC WCAO WDAF
WDBJ WDBO WDOO WDRC WDSU
WEAN WGST WHK WHP WJRW
WICC WIP WISN WJAS WJSP
WKBW WLAC WLWB WLWB WMBD
WMT WNAK WNOX WODX WOKO
WORC WQAM WREC WSBT WSJS
WSPD WTAR WTOC WWVA

R—Harold Stern and Orchestra
KSD WBEN WCAE WCKY WCSH
WDAF WEAF WFEL WFBR WFI
WGY WHO WJAR WMAQ WOC
WRC WSAI WTAG WTAM WWJ

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

B—Mark Fisher's Orchestra
KOIL KSO KWCR KWK KYW
WGAR WJZ WLWB WRC WREN

R—Ted Weems and Orchestra
KDYL KFSD KFYR KGA KGHIL
KJR KOA KPO KPRC KSD KSTP
KTAR KTBS WCAE WCKY WDAF
WDAF WEAF WFAA WFBR WFI
WGY WHO WIBA WIOD WJAR
WJAX WMAQ WMC WOAI WOC
WRC WSB WSMB WTAG WTAM
WWNC

C—Joe Haymes, See Tuesday

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

R—Don Erwin and Orchestra
KSD WBEN WCAE WCKY WDAF
WEAF WFBR WFI WHO WJAR
WOC WRC WTAG WTAM

B—Sam Robbins' Bermudians
KDYL KECA KFX KFSD KFYR
KGA KJR KOIL KPO KPRC KSTP
KTBS KVOO KWCR KWK KYW
WDAF WEBC WFAA WFLA WGAR
WHAM WIBA WIOD WJAX WJZ
WKY WLAW WMC WOAI WREN
WSB WSMB WWNC

SUNDAY

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

R—Major Bowes' Family
KDYL KEX KFSD KFYR KGA KJR
KOA KPO KPRC KVOO WBAP
WDAF WDAY WEAF WFBR WFI
WGY WHO WIOD WJAR WJAX
WKY WMC WOC WRC WSM WSMB
WTAG WTAM WTJZ WWJ WWNC

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

C—Salt Lake Tabernacle Choir
CFRB CKOK KFAB KLZ KSCJ KSL
KTRH KTSB KVOR WABC WADC
WBCM WBIG WBT WCAO WCAU
WCCO WDAE WDBO WDOO WDRC
WDSU WEAN WFEA WGR WHEC
WHK WIBW WISN WJAS WJSP
WKBW WKBN WLWB WLWB WMBD
WNAK WNAK WODX WOKO WORC
WPG WQAM WSBT WSJS WSPD
WTAG WTAR WWVA

E-12:15 p.m., C-11:15, M-10:15, P-9:15

B—Rox's Gang
CFPC CKGW KDKA KDYL KECA
KEX KFSD KFYR KGA KJR KOA
KOIL KPO KPRC KSTP KTAR
KVOO KWK WAPI WBAL WBZ
WBAZ WDAY WEBC WFAA WFLA
WGAR WHAM WIBA WIOD WIS
WJAX WJR WJZ WKY WLW WMAQ
WOAI WRC WREN WRVA WSB
WSM WSMB WSYR WWNC

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

R—Walter Logan Pop Concert
CFPC CKGW KDYL KFYR KOA
KPRC KSTP KTBS KVOO WAPI

WBEN WCAE WCKY WCSH WDAF
WDAY WEAF WEBC WEEL WFAA
WFBR WFI WGY WHO WIBA
WIOD WISN WJAR WKY WOAI
WOC WRVA WSAI WSB WSM
WSMB WTAG WTAM WWJ WWNC

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

C—Street Singer
CFRB CKOK KFAB KLZ KMBC
KSCJ KSL KTRH KTSB KVOR
WABC WADC WBCM WBIG WBT
WCAO WCCO WDAE WDBO WDOO
WDSU WGR WHEC WHK WIBW
WISN WJAS WJSP WKBW WKBN
WLWB WLWB WMBD WNAK WODX
WOKO WPG WQAM WSBT WSPD
WTAG WTAR WTOC WWVA

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

B—Cook Travelogues
KDKA WBAL WBZ WBZA WCKY
WGAR WHAM WJR WJZ WMAL
WMAQ WSYR

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

R—Moonshine and Honeysuckle
CFPC CKGW KFI KFSD KFYR
KGO KGW KHQ KOA KOMO KPRC
KSD KSTP KTBS KVOO WAPI
WBEN WCAE WCKY WCSH WDAF
WDAY WEAF WEBC WFAA WFI
WGY WHO WIBA WIOD WISN WJAR
WJAX WKY WMAQ WOAI WOC
WOW WRC WRVA WSAI WSB
WSM WSMB WTAG WTAM WWJ
WWNC

C—Columbia Church of the Air

CFRB CKOK KLZ KSCJ KSL KTRH
KTSB KVOR WAAB WABC WADC
WBCM WBIG WABC WCCO WDAE
WDBO WDOO WDRC WDSU WGR
WHEC WIBW WJAS WJSP WKBW
WLWB WLWB WNAK WODX WOKO
WPG WQAM WSBT WSJS WSPD
WTAG WTAR WTOC WWVA

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

C—Smiling Ed McConnell
CKOK KERN KFBC KFPY KFRK
KGB KHJ KLZ KMBC KMOX KOIN
KOL KSL KVI KWG WABC WBBM
WBT WCCO WDSU WGR WGST
WHAS WHEC WJAS WJSP WKRC
WLAC WNAK WOAO WQAM WRR
B—Monarch Mystery Tenor

KDKA KDYL KFI KFYR KGO KOA
KOIL KSO KSTP KWCR KWK WBAZ
WBZA WCKY WDAY WEBC WGAR
WHAM WIBA WJAR WJAX WJR
WJZ WMAQ WREN WTJZ WWNC

R—Clyde Doerr's Saxophone Octet

CFPC KSD KTBS KTHS WAPI
WBEN WCAE WCKY WEAF WFAA
WFBR WGY WHO WJAR WJAX
WMC WOAI WOC WOV WSAI
WSM WSMB WTAG WTAM WWJ

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

C—Albert Bartlett Tango King
CKOK KMBC KMOX WABC WBBM
WCAO WCAU WGR WHEC WHK
WJAS WJSP WKRC WNAK WOC
WOWO

R—International Radio Forum

CFPC KDYL KFI KFSD KFYR
KGHIL KGR KGO KHQ KOA KOMO
KPRC KSD KTAR KTBS KTHS
KVOO KYP WAPI WBEN WCAE
WCKY WDAY WEAF WEAF WFAA
WFBR WFLA WGY WIBA WIOD
WISN WJAR WJAX WJDX WKY
WMC WOAI WOC WOV WRVA

SUNDAY—(Continued)

WSAI WSM WSMB WTAG WTAM
WWJ WWNC

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

B — Charlie Agnew's Orchestra
KDKA KDYL KFI KFSD KFYR
KGHL KGRG KGO KGW KHQ KOA
KOIL KOMO KPRC KSO KSTP
KTAR KTBS KTHS KVOO KWCR
KWK KYW WAPI WBAL WBZ
WBZA WDAY WEBC WFSA WFLA
WGAR WHAM WIOD WIS WJAX
WJDX WJR WJZ WKY WLW WMC
WOAI WPTF WREN WRVA WSB
WSM WSMB WSYR WTMJ WWNC

C — Victor Arden and Orchestra
CKOK KMBC KMOX WABC WBBM
WCAO WCAU WGR WHEC WHK
WJAS WJSV WKRC WNAC WOKO
WOWO

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

C — N. Y. Philharmonic Orchestra
CFRB CKOK KFAB KFH KLZ KMBC
KRLD KSCJ KSL KTRH KVOR
WAAB WABC WADC WBCM WBIG
WBRC WBT WCAO WCCO WDAE
WDBO WDOOD WDRC WDSU WFAW
WFBM WFLA WHEC WHK WIBW
WICC WIP WISN WJAS WJSV WKBH
WKBN WKWB WLWB WLWB WMBD
WODX WOKO WORC WQAM WSBT
WSFA WSJS WSPD WTAQ WTAR
WTOC WVA

R — Wayne King and Orchestra
KDYL KFI KGO KGW KHQ KOA
KOMO KPRC KSD KSTP KTBS
KTHS KVOO KYW WHEN WCAE
WECK WESH WDAF WFAF WFCB
WHEI WFLA WFBP WGY WHO
WIBA WJAR WKY WLIT WOAI
WOC WOV WRC WSAI WTAG
WTAM WTMJ WWJ

B — Our American Music
KOIL KWCR KWK WBAL WFLA
WGAR WIOD WJAX WJZ WMAQ
WREN WRVA WSB WSM WSMB
WWNC

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

R — Dr. S. Parkes Cadman
KDYL KFSD KFYR KGHL KGO
KGW KHQ KOA KOMO KPRC KSD
KSTP KTRH KTBS KVOO WBAW
WCAE WCBS WDAF WDAY WFAF
WEBC WEEL WFBP WGY WHO
WIBA WJAR WKY WLIT WOAI
WOC WOV WRC WSAI WTAM WWJ

B — Manhattan Merry-Go-Round
KDKA KOIL KWCR KWK KYW
WBAL WBZ WBZA WHAM WJZ
WREN

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

Father Coughlin
KMOX KSTP KYW WCAO WCAU
WDRG WGAN WFBL WFEA WGAR
WGR WHB WICC WJAS WJR WLWB
WLW WMT WNAC WNBH WOC
WOL WOKO WORC WORC
B — Temple of Song
CFCH KDKA KFI KFSD KFYR
KGHL KGO KGW KOA KOIL KSO
KSTP KTBS KWCR KWK WBAL
WBZ WBZA WCKY WEBC WGAR
WHAM WIBA WIOD WIS WJAX
WJR WJZ WKY WMAQ WMC WREN
WRVA WSB WSM WSMB WWNC

E-4:15 p.m., C-3:15, M-2:15, P-1:15

R — Wildcat — Vee Lawnhurst
KDYL KFI KGO KGW KHQ KOA
KOMO WBAW WCAE WCBS WDAF

WEAF WVEI WFBR WGY WJAR
WLIT WMAQ WOV WRC WSAI
WTAG WTAM WWJ

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

R — Squibb's Program
WBEN WCAE WCBS WDAF WFAF
WVEI WFBR WGY WJAR WMAQ
WOV WRC WTAG WTAM WWJ

B — National Youth Conference

KDYL KFSD KFYR KGHL KGO
KGW KHQ KOA KOIL KOMO KPRC
KSO KSTP KTRH KVOO KWCR
KWK WAPI WBAL WBZ WBZA
WDAY WFAF WENR WHAM WIOD
WIS WJAX WJDX WJZ WMC WOAI
WPTF WREN WRVA WSB WSM
WWNC

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

C — Roses and Drums
CKOK KMBC KMOX KRLD WAAB
WABC WADC WCAO WCCO WDSU
WGN WGR WHAS WHK WJAS
WJSV WKRC

R — Lowell Thomas

WBEN WCAE WEAF WVEI WFBR
WGY WJAR WRC WSAI WTAG
WTAM WWJ

B — National Vespers

KFSD KFYR KGHL KGO KGW
KHQ KOA KOIL KOMO KPRC KSO
KTAR KTBS KWCR KWK WAPI
WBAL WBAP WBZ WBZA WEBC
WFLA WGAR WIOD WIS WJAX
WJDX WJZ WOAI WPTF WREN
WSB WSM WSMB WWNC

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

R — Big Ben's Dream Dramas
WBEN WCAE WCBS WFAF WVEI
WFBP WFI WGY WJAR WMAQ
WRC WSAI WTAG WTAM WWJ

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

C — Blue Coal Musical Revue
WAAB WABC WCAO WCAU WDRC
WEAN WFBL WGR WHEC WHP
WOKO

B — Pages of Romance, Drama

KDKA KOIL KSO KWCR KWK
KYW WBAL WBZ WBZA WGAR
WJR WJZ WLW WREN

B — Josef Koestner's Orchestra

KDYL KFI KFYR KGHL KGRH
KGO KGW KHQ KOA KOMO KPRC
KSTP KTRH KTBS KVOO WAPI
WBAP WDAF WDAY WEBC WIBA
WJDX WKY WMC WOAI WS WSM
WSMB WTMJ

R — Swift Gospel Program

CKGW KSD WBEN WCAE WCBS
WDAF WFAF WVEI WFBP WFI
WGY WHO WJAR WMAQ WOC
WOW WRC WSAI WTAG WTAM
WWJ

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

R — Catholic Hour
KDJR KEX KFYR KGHL KGRH
KJR KOA KPRC KSD KTRH KTBS
KVOO WAPI WBAP WBEN WCAE
WCKY WCBS WDAF WDAY WFAF
WEBC WEEL WENR WFBP WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLIT WMC
WOAI WOC WOV WRC WRVA
WSAI WSB WSM WSMB WTAG
WTAM WWJ WWNC

B — Josef Koestner's Orchestra

KDKA KOIL KSO KWCR KWK
WBAL WBZ WBZA WCKY WENR
WGR WHAM WJR WJZ WREN

C — The Lawyer and Public

CFRB KFAB KFH KLZ KRLD

KSCJ KSL KVOR WAAB WABC
WACO WBCM WBIG WBRG WCAO
WCCO WDAE WDBI WDBO WDOD
WDRG WDSU WEAN WFEA WGST
WHAS WHP WIBW WICC WISN
WKBH WLWB WLWB WNAW WNOX
WODX WOKO WORC WPG WQAM
WREK WSPA WSVS WSPD WTAQ
WTAR WTOT WVA

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

C — Cathedral Hour
CFRB CKOK KFH KLZ KMBC
KRLD KSCJ KSL KVOR WAAB
WABC WADC WBBM WBCM WBIG
WBRC WBT WCAO WCAU WCCO
WDAE WDBO WDOD WDRC WDSU
WFBM WFEA WHEC WIBW WICC
WISN WJAS WJSV WKBH WKBN
WKWB WLWB WLWB WNAW WOKO
WOC WQAM WSBT WSFA WSJS
WSPD WTAR WTOC WVA

R — Our American Schools

KDYL KEX KEX KFSD KFYR
KGA KOA KPO KPRC KSD KSTP
KTBS KVOO WBAW WBEN WCAE
WCBS WDAY WFAF WFCB WHEI
WENR WFBP WFLA WGY WHO
WIOD WJAR WKY WLIT WMC
WOAI WOV WPTF WRC WRVA
WSAI WSM WSMB WTAG WWJ
WWNC

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

C — H. V. Kallenborn
KFAB KFH KLZ KMBC KSCJ KSL
KTRH KVOR WABC WACO WBCM
WBIG WBRG WCAO WDAE WDBI
WDOB WDOOD WDRC WDSU WEAN
WFBM WFEA WGST WHAS WHP
WIBW WICC WIP WISN WKBH
WKBN WLWB WLWB WMT WNAC
WNAW WNOX WOKO WORC WPG
WQAM WREC WSBT WSFA WSPD
WTAR WTOC WVA

R — James Melton Tenor

KDYL KFYR KOA KPRC KSD
KSTP KTBS KVOO WBEN WDAF
WDAY WFAF WEBC WEEL WFBP
WFLA WGY WIBA WIOD WIS
WJAR WMAQ WOAI WRVA WSAI
WSMB WTAG WWJ WWNC

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

C — Morton Downey
CKOK KFAB KFH KLZ KMBC
KSCJ KSL KTRH KVOR WABC
WACO WBCM WBIG WBRG WDAE
WDBI WDBO WDOD WDRC WDSU
WEAN WFBM WFEA WGST WHAS
WHP WIBW WICC WIP WISN
WKBH WKBN WLWB WLWB WMT
WNAC WNAW WNOX WORC WQAM
WREC WSBT WSFA WSJS WSPD
WTAR WTOC WVA

R — Wheatonville, See Monday

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

B — Great Moments in History
KDYL KDYL KFI KFSD KFYR
KGO KGW KHQ KOA KOIL KOMO
KPRC KSTP KTRH KVOO KWCR
KWK WBAL WBZ WBAW WDAY
WEBC WFAA WFLA WGAR WHAM
WIBA WIOD WJAX WJDX WJR
WJZ WKY WLS WLW WMC WOAI
WPTF WREN WRVA WSB WSM
WSMB WTMJ WWNC

C — Fray and Braggiotti

CKOK KLRA KLZ KMBC KSCJ
KSL KTRH KVOR WABC WACO
WBCM WBIG WCAO WCCO WDAE
WDBI WDBO WDOD WDRC WDSU
WEAN WFBM WFEA WGST WHAS
WHP WIBW WIP WISN WKBH

SUNDAY—(Continued)

WBNB WLWB WLWZ WMT WNAC
WNAX WNOX WOKO WORC WQAM
WREC WSBT WSFA WSJS WSPD
WTAR WTOC WVVVA
R — Three California Nuts
WCSH WFAF WEEI WJAR WTAG
WTIC

E-7:45 p.m., C-6:45, M-5:45, P-4:45
C — Angelo Patri, Your Child
CKOK KMBX KMOX WABC WCAO
WCAU WCCO WFBL WGN WGR
WHAS WHK WJAS WJSV WKRC
WNAC

R — Trade and Mark
KSD WBNB WCAE WDAF WFAF
WFBZ WGY WJAR WMAQ WRC
WSAI WTAG WTAM WWJ

E-8:00 p.m., C-7:00, M-6:00, P-5:00
R — Chase and Sanborn—Eddie Cantor
CFPC CKGW KDYL KFI KFSD
KFYR KGO KGW KHQ KOA KOMO
KPRC KSD KSTP KATR KVOO
WBNB WCAE WCSH WDAF WDAY
WEAF WBEW WFAA WFBZ WFLA
WGY WHO WIOD WIS WJAR WJDX
WKY WLIT WLW WMAQ WMC
WOAI WOC WOW WRC WSB WSM
WSMB WTAG WTAM WTIC WTMJ
WWJ WWNC

C — John Henry-River Giant
CKOK KLRA KLZ KMBC KRLD
KSCJ KSL KTRH KTSa KFOR
WABC WACO WADC WBBM WBCM
WBRC WBT WCAH WCAO WCCO
WDAE WDBJ WDOB WDRG WDSU
WFBL WFBM WFEA WGR WGST
WHCC WHK WHP WISN WJAS
WKBH WLWB WLWZ WNAX WNOX
WOKO WORC WREC WSFA WSJS
WSPD WVVVA

E-8:15 p.m., C-7:15, M-6:15, P-5:15
C — Andre Kostelanetz Presents
CKOK KLZ KMBC KMOX KRLD
KSCJ KSL KTRH KTSa KFOR
WABC WADC WBBM WBCM WBRC
WBT WCAO WCAU WCCO WDAE
WDOB WDOB WDRG WDSU WGAN
WFBM WFEA WGR WIBC WHK
WJW WISN WJAR WJSV WKBH
WLWB WLWZ WNAX WNOX WOKO
WORC WSBT WSFA WSJS WSPD
WTAR WTOC WVVVA

E-8:45 p.m., C-7:45, M-6:45, P-5:45
C — John Henry—River Giant
CKOK KLRA KLZ KMBC KRLD
KSCJ KSL KTRH KTSa KFOR
WABC WADC WBBM WBCM WBRC
WBT WCAH WCAO WCCO WDAE
WDBJ WDOB WDRG WDSU WFBL
WFBM WFEA WGR WGST WHCC
WHK WHP WISN WJAS WKBH
WKBN WLWB WLWZ WNAX WODX
WOKO WORC WREC WSFA WSJS
WSPD

E-9:00 p.m., C-8:00, M-7:00, P-6:00
C — Fred Allen's Bath Club
CKOK KDB KERN KFBK KFPY
KFRC KGB KHJ KLRA KLZ KMBC
KMJ KMOX KOIN KOL KOMA KSCJ
KSL KVI KWG WABC WADC WBT
WCAH WCAO WCAU WCCO WDAE
WDOB WDOB WDRG WDSU WGAN
WFBL WFBM WGN WGR WGST
WHAS WHCC WHK WISN WJAS
WJSV WKRC WLAC WMT WNAC
WOKO WORC WOW WQAM WREC
WSPD WTAR

R — General Electric Concert
KDYL KFI KFSD KFYR KGO KGW

KHQ KOA KOMO KPRC KSD KSTP
KTRK KTBS KTHS WAPI WBEN
WCAE WCSH WDAF WDAY WEAF
WBEC WENR WFAA WFBZ WFI
WFLA WGY WHO WIBA WIS WJAR
WJAX WJDX WKY WOAI WOC
WOW WRC WRVA WSAI WSB WSM
WSMB WTAG WTAM WTMJ WWJ
WWNC

B — Warden Lawes—Singing
KDKA KOHL KSO KWCR KWK
KYW WBAL WBBZ WBLA WREN
WHAM WJR WJZ WLW WZN

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

C — Penzance Parade
CKOK KLRA KMBC KMOX KOMA
KTSa WABC WADC WBRC WBT
WCAO WCAU WCCO WDRG WEAN
WFBL WGN WGR WGST WHAS
WHCC WHAS WJSV WKRC WLAC
WLWZ WNAC WOKO WSPD

R — Album of Familiar Music
KDYL KFI KGO KGW KHQ KOA
KOMO KPRC KSD KSTP KTHS
WAPI WBNB WCAE WCKY WCSH
WEAF WENR WFAA WFBZ WFI
WFLA WGY WHO WIOD WJAR
WJAX WJDX WKY WMC WOAI
WOC WOW WRC WRVA WSAI WSB
WSM WSMB WTAG WTAM WTMJ
WWJ

B — Walter Winchell
KDKA KOHL KSO KWCR KWK
KYW WBAL WBBZ WBLA WGR
WHAM WJR WJZ WLW WREN

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

B — Pickens Sisters
CFPC CKGW KDKA KOHL KSO
KWCR KWK KYW WBAL WHAM
WJR WJZ WREN WYSR

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

B — D. W. Griffith, See Wednesday
R — David Lawrence

KDYL KFI KFSD KFYR KGO KGW
KHQ KOA KOMO KPRC KSTP
KTHS WBNB WCAE WCKY WCSH
WDAF WDAY WEAF WBEW WEOI
WFBZ WFI WFLA WGY WHO WIBA
WIOD WIS WJAR WJAX WKY WMC
WOAI WOC WRC WSAI WSM WSMB
WTAG WTAM WTIC WWJ WWNC

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

R — Rex Chandler and Orchestra
CKGW WBNB WCAE WCKY WCSH
WDAF WEAF WEEI WFBZ WFLA
WGY WIS WJAR WOW WRC WSAI
WTAG WTAM WTIC WWJ WWNC

C — Ernest Hutcheson, Pianist

CFRB CKOK KFH KLRA KLZ
KMBC KSCJ KTRH KTSa KFOR
WABC WADC WADC WBBM WBCM
WBG WBT WCAH WCAO WCAU
WCO WDAE WDBJ WDOB WDRG
WDSU WFBL WFBM WFEA WGR
WGST WHCC WHK WHP WISN
WJAS WKBN WKBW WLWB WLWZ
WMBD WMT WNAX WNOX WODX
WOKO WORC WPG WQAM WREC
WSBT WSJS WSPD WTOC

B — Vincent Lopez; Pratt-Sherman

KDKA KDYL KFI KGO KGW KHQ
KOA KOHL KOMO KPRC KSTP
KTHS WHK WBAL WBAF WBBZ
WBJA WGAR WIBA WJDX WJR
WJZ WKY WLW WMAQ WOAI
WREN WSB WSM WSMB WTMJ

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

R — Donald Novis Tenor
CFPC CKGW KYW WBNB WCAE

WCKY WCSH WDAF WEAF WEEI
WFBZ WFI WFLA WGY WHO
WIOD WIS WJAR WOC WOW WRC
WRVA WSAI WTAG WTAM WTIC
WWJ WWNC

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

R — Sunday at Seth Parker's
CFPC CKGW KDYL KFSD KFYR
KGHL KGIR KGO KGW KHQ KOA
KPRC KSTP KTRK KTBS KTHS
KYW WAPI WBAF WBNB WCAE
WCKY WCSH WDAF WDAY WEAF
WBEW WEEI WFBZ WFI WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WMC WOAI WOC
WOW WRC WRVA WSAI WSB WSM
WSMB WTAG WTAM WTMJ WWJ
WWNC

B — Orange Lantern, Mystery Drama

KDKA KSO KWCR KWK WBAL
WGR WHAM WJZ WREN

C — The Gauchos

CKOK KFAB KFH KLZ KSCJ KTRH
KFOR WAAB WADC WADC WBCM
WBRC WBT WCAO WDAE WDOB
WDOB WDRG WDSU WEAN WGAN
WFBM WGR WHCC WIBW WICC
WIP WISN WJAS WJSV WKBN
WLWB WLWZ WMBD WNAX WODX
WOKO WPG WQAM WSJS WSPD
WTAR WTOC

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

C — Isham Jones and Orchestra

KLRA KTRH WAAB WABC WBCM
WBRC WCAO WDAE WDBJ WDBO
WDOB WDRG WDSU WEAN WGAN
WICC WLWZ WNOX WODX WORC
WPG WQAM WREC WSJS WTAR
WTOC

B — Walter Winchell

KDYL KFI KGHJ, KGIR KGO
KGW KHQ KOA KOMO KPRC
KTRK KTBS KTHS WAPI WBAF
WJDX WKY WMC WOAI WSB
WSM WSMB

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

C — Eddie Duchin and Orchestra

CKOK KFAB KFH KLRA KLZ
KMOX KSCJ KTRH KFOR WAAB
WABC WBCM WBRC WCAO WCAU
WCCO WDAE WDBJ WDOB WDOB
WDRG WDSU WEAN WGAN WGR
WHP WIBW WICC WISN WNBC
WLWB WLWZ WMBD WMT WNAC
WNAX WNOX WOKO WPG WQAM
WREC WSBT WSJS WSPD WTAR
WTOC

B — Jesse Crawford, Organist

KDKA KOHL KSO KWCR KYW
WBAL WBBZ WBLA WCKY WHAM
WJZ WREN

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

C — Ben Pollack and Orchestra

CKOK KFAB KLZ KMOX KSCJ
KTRH KFOR WABC WBRC WBT
WCAU WCCO WDAE WDOB WEAN
WGR WIBW WICC WISN WJSV
WLWB WMBD WNAC WNAX
WOKO WPG WSBT WSPD

B — William Stoess and Orchestra

KFYR KGHL KGO KGW KHQ KOA
KOHL KOMO KPRC KSTP KTSa
KWCR KWK WBBZ WGBA WDAY
WEAF WENR WFLA WGR WHAM
WIBA WIOD WIS WJR WJZ WKY
WLW WMC WREN WSN WSM
WSMB WWNC

R — Joe Furst and Orchestra

WCAE WEAF WFBZ WGY WJAR
WOW WTAM WTIC

CLASSIFIED INDEX TO CHAIN PROGRAMS

Time in Eastern Standard

CONCERTS

Howard Barlow, 11:00 p.m., daily, ex. Sat. and Sun., C
Boston Symphony, 8:15 p.m., Saturday, B
Concert Footlights, 7:15 p.m., Thursday, B
Gauchos, 10:45 p.m., Sunday, C
General Electric, 9:00 p.m., Sunday, R
Walter Logan, 12:30 p.m., Sunday, R
New York Philharmonic, 3:00 p.m., Sunday, C
Riesenfeld's Viennese, 9:00 p.m., Saturday, R
Jacqueline Solomons, 7:00 p.m., Wednesday, R
Waldorf-Astoria, 8:00 p.m., daily, ex. Sunday, R

DANCE BANDS

Charlie Agnew, 2:30 p.m., Sunday, B
Victor Arden, 2:30 p.m., Sunday, C
Albert Bartlett, 2:15 p.m., Sunday, C
Leon Belasco, 11:30 p.m., Saturday, C
Ben Bernie, 12 mid. Wed., B; 9:00 p.m. and 12:30 a.m., Tuesday, R
Cab Calloway, 12 mid., Tuesday and Friday, B
Rex Chandler, 10:15 p.m., Sunday, R
Jack Denny, 11:30 p.m., Mon. and Thurs.; 11:10 p.m., Saturday, R
Clyde Doerr, 2:00 p.m., Sunday, R
Eddie Duchin, 11:30 p.m., Sun.; 12 mid., Wednesday, C
Don Erwin, 12:30 a.m., Saturday, R
Mark Fisher, 12:30 a.m., Tues. and Wed., 12 mid. Sat., B
Joe Furst, 12 mid., Sunday, R
Joe Haynes, 12 mid., Tuesday and Saturday, C
Isham Jones, 11:15 p.m., Sun.; 11:30 p.m., Tues., Wed., Thurs.; 8:30 p.m., Saturday, C
Wayne King, 3:00 p.m., Sun.; 8:30 p.m., Tues., R; 9:30 p.m., Thursday, B
Guy Lombardo, 11:30 p.m., Mon.; 9:30 p.m., Wed.; 9:45 p.m., Saturday, C
Vincent Lopez, 7:00 p.m., Tues., R; 10:15 p.m., Sun., 7:00 p.m., Saturday, B
Abe Lyman, 12 mid., Mon.; 11:30 p.m., Fri.; 8:45 p.m., Tuesday, Wednesday, Thursday, C
Dick Mausfield, 6:00 p.m., Wednesday, C
Dolph Martin, 7:30 p.m., Mon., Wed., Fri., C
Freddie Martin, 12 mid., Monday, B
Ozzie Nelson, 6:15 p.m., Thursday, C
George Olsen, 8:00 p.m., Wednesday; 9:30 p.m., Saturday, R
Ben Pollack, 12 mid., Sunday and Friday, C
Sam Robbins, 12 mid., Thurs.; 12:30 a.m., Saturday, B
Willard Robison, 9:30 p.m., Tues.; 11:30 p.m., Thurs., B
B. A. Rolfe, 10:00 p.m., Saturday, R
Harold Sanford, 11:30 p.m., Monday, B
Harold Stern, 11:30 p.m., Saturday, R
William Stoess, 12 mid., Sunday, B
Rudy Vallee, 8:00 p.m., Thursday, R
Fred Waring, 10:00 p.m., Wednesday, C
Ted Weems, 11:00 p.m., Monday; 12 mid., Saturday, R
Paul Whiteman, 9:30 p.m., Monday, R

DIALOG

Fred Allen, 9:00 p.m., Sunday, C
Amos 'n' Andy, 7 and 11 p.m., daily, ex. Sat. and Sun., B
Jack Benny, 10:00 p.m., Friday, R
Burns and Allen, 9:30 p.m., Wednesday, C
Cuckoo, 10:30 p.m., Saturday, B
Easy Aces, 8:00 p.m., Tues., Thurs. and Saturday, C
Funnyboners, 6:45 p.m., Saturday, C
Tom Howard, 9:00 p.m., Friday, R
Marx Bros., 7:30 p.m., Monday, B
Jack McAllen, 10:45 p.m., Tues. and Friday, B
Baron Munchausen, 10:00 p.m., Thursday, R
Jack Osterman, 2:30 p.m., Sunday, C
Drs. Pratt and Sherman, 10:15 p.m., Sunday, R
Reis and Dunn, 6:15 p.m., Mon.; 6:00 p.m., Tuesday, C
Stoopnagle and Budd, 9:30 p.m., Thursday, C
Three California Nuts, 7:30 p.m., Sunday, R
Vic and Sade, 10:15 p.m., daily, ex. Sat. and Sunday, B
Solly Ward, 10:00 p.m., Tuesday, C

DRAMA

Big Ben, 5:15 p.m., Sunday, R
Octavus R. Cohen Mystery, 7:45 and 11:15 p.m., Tues., Thurs., Sat., B
Death Valley Days, 9:00 p.m., Thursday, B
Eno Crime Club, 8:00 p.m., Tuesday and Wednesday, B

First Nighter, 9:00 p.m., Friday, B
Foreign Legion, 10:00 p.m., Thursday, C
Fu Manchu Mystery, 8:30 p.m., Monday, C
General Tire, 9:00 p.m., Wednesday, R
Goldbergs, 7:45 p.m. and 12 mid., daily, ex. Sat. and Sun., R
Great Moments in History, 7:30 p.m., Sunday, B
Griffith's Hollywood, 10:00 p.m., Sun. and Wed., B
John Henry, 8:00 and 8:45 p.m., Sunday, C
Sherlock Holmes, 9:00 p.m. and 12:15 a.m., Wednesday, B
King Kong, 6:30 p.m., Monday and Saturday, R
Magic Voice, 8:15 p.m., Tuesday and Saturday, C
March of Time, 8:30 p.m., Friday, C
Moonshine and Honeysuckle, 1:30 p.m., Sunday, R
Myrt and Marge, 7:00 and 10:45 p.m., daily, ex. Sat. and Sunday, C
Mysteries in Paris, 9:30 p.m., Monday, C
Neighbors, 10:30 p.m., Friday, R
Orange Lantern, 10:45 p.m., Sunday, B
Pages of Romance, 5:30 p.m., Sunday, B
Rin Tin Tin, 8:30 p.m., Thursday, B
Buck Rogers, 7:15 p.m., daily, ex. Sat. and Sun., C
Roses and Drums, 5:00 p.m., Sunday, C
The Shadow, 8:30 p.m., Wednesday, R
Socoyland Sketches, 8:00 p.m., Monday, R
Squibb's 4:30 p.m., Sunday, R
Wheatonville, 7:15 p.m., daily, ex. Friday and Saturday, R

PIANO AND ORGAN

Jesse Crawford, 11:30 p.m., Sunday, B
Fray and Braggiotti, 7:30 p.m., Sunday; 10:30 p.m., Thurs., 10:45 p.m., Friday, C
Archer Gibson, 8:00 p.m., Saturday, R
Gruen and Hall, 7:00 p.m., Monday, R
Harding Sisters, 6:45 p.m., Tuesday, R
Ernest Hutcherson, 10:15 p.m., Sunday, C
Vee Lavinhard, 4:15 p.m., Sunday, R
Ohman and Arden, 2:30 p.m., Sun., C; 9:30 p.m., Sun., R
Lew White, 11:15 p.m., Saturday, B

POPULAR PROGRAMS

A. & P. Gypsies, 9:00 p.m., Monday, R
Album of Familiar Music, 9:30 p.m., Sunday, R
Armour Program, 9:30 p.m., Friday, B
Bath Club, 9:00 p.m., Sunday, C
Blue Coal Revue, 5:30 p.m., Sunday, C
Major Bowes' Family, 11:15 a.m., Sunday, R
California Melodies, 9:30 p.m., Tuesday, C
Chase and Sanborn, 8:00 p.m., Sunday, R
Chevrolet Program, 10:00 p.m., Friday, R
Cities Service, 8:00 p.m., Friday, R
Clicquot Club Eskimos, 8:00 p.m., Monday, B
Columbia Revue, 10:00 p.m., Monday and Friday, C
Contented Program, 10:00 p.m., Monday, R
Corn Cob Pipe Club, 10:00 p.m., Wednesday, R
Firestone, 8:30 and 11:30 p.m., Monday, R
Five Star Theatre, 10:00 p.m., Tues., C; 7:30 p.m., Mon. and Friday, B
Jack Frost's Melody, 9:30 p.m., Monday, B
Household Musical Memories, 9:00 p.m., Tuesday, B
Inside Story, 9:30 p.m., Friday, C
Jad Salt, 6:30 p.m., Monday and Wednesday, C
Lucky Strike, 10:00 p.m., Thursday, R
Manhattan Merry-Go-Round, 3:30 p.m., Sunday, B
Maxwell House, 9:00 p.m., Thursday, R
Nestle's Program, 8:00 p.m., Friday, B
Old Gold, 10:00 p.m., Wednesday, C
Pennzoil Parade, 9:30 p.m., Sunday, C
Ponil's Program, 9:30 p.m., Friday, R
Rox's Gang, 12:15 p.m., Sunday, B
Royal Vagabonds, 8:00 p.m., Wednesday, R
Andy Sunella, 6:45 p.m., Wednesday, R
Sinclear Minstrels, 9:00 p.m., Monday, B
Swifts' Garden, 5:30 p.m., Sunday, R
Wildroot Institute, 4:15 p.m., Sunday, R
Ed Wynn, 9:30 p.m., Tuesday, R

QUARTETS

Mills Brothers, 9:15 p.m., Monday and Thursday, C
Revelers, 4:30 p.m., Sunday, R
Rollickers, 9:30 p.m., Monday, R
Singing Cylinders, 5:30 and 6:00 p.m., Sunday, B

RELIGIOUS

Dr. S. Parkes Cadman, 3:30 p.m., Sunday, R
 Cathedral Hour, 6:30 p.m., Sunday, C
 Catholic Hour, 6:00 p.m., Sunday, R
 Church of the Air, 1:30 p.m., Sunday, C
 Rev. Charles E. Coughlin, 4:00 p.m., Sunday
 Mid-Week Hymn Song, 6:30 p.m., Tuesday, R
 National Vespers, 5:00 p.m., Sunday, B
 National Youth Conference, 4:30 p.m., Sunday, B
 Our American Music, 3:00 p.m., Sunday, B
 Seth Parker's, 10:15 p.m., Sunday, R
 Salt Lake Choir, 12 noon, Sunday, C
 Temple of Song, 4:00 p.m., Sunday, B

SINGERS

Frances Akla, 6:00 p.m., Tuesday, R
 Elvia Allman, 7:30 p.m., Monday and Wednesday, R
 Ilomay Bailey, 10:30 p.m., Tuesday and Friday, B
 Elizabeth Barthell, 6:00 p.m., Monday, C
 Boswell Sisters, 9:15 p.m., Saturday, C
 Fanny Brice, 8:00 p.m., Wednesday, R
 Buccaneers, 11:00 p.m., Saturday, B
 Eddie Cantor, 8:00 p.m., Sunday, R
 Charles Carlike, 10:45 p.m., Tuesday, C
 Richard Crooks, 8:30 and 11:30 p.m., every other Monday, R
 Bing Crosby, 9:00 p.m., Wednesday and Saturday, C
 Dennis and Reese, 11:00 p.m., Tuesday, R
 Do Re Mi, 6:00 p.m., Friday, C
 Morton Downey, 7:15 p.m., Sun., 10:45 p.m., Thurs., C;
 9:30 p.m., Wednesday, B
 Jessica Dragonette, 8:00 p.m., Friday, R
 Mary Eastman, 8:15 p.m., Sunday; 9:15 p.m., Friday, C
 Ruth Etting, 9:00 p.m., Monday and Thursday, C
 Fields and Hall, 6:45 p.m., Saturday, B
 Fields and McHugh, 10:00 p.m., Friday, B
 Jane Froman, 9:00 p.m., Tuesday and Friday, C
 Keller, Sargent and Ross, 7:30 p.m., Tues. and Thurs., C
 Jeannie Long, 9:30 p.m., Thursday, C; 9:00 p.m., Friday, R
 Welcome Lewis, 11:15 p.m., Friday, B
 Little Jack Little, 10:45 p.m., Wednesday, C
 Ruth Lyon, 10:30 p.m., Wednesday, B
 Andrea Marsh, 6:45 p.m., Monday, R
 Nine Martino, 11:00 p.m., Wednesday and Friday, C
 Smiling Ed McConnell, 2:00 p.m., Sunday, C
 Tommy McLaughlin, 9:15 p.m., Tuesday, C
 James Melton, 7:00 p.m., Sun.; 7:30 p.m., Tues.; 11:00 p.m.,
 Thursday, R
 Monarch Mystery Tenor, 2:00 p.m., Sunday, B
 Frank Munn, 9:30 p.m., Sunday, R
 Gertrude Niesen, 6:30 p.m., Thurs.; 10:45 p.m., Sat., C
 Donald Novis, 10:30 p.m., Sun.; 7:00 p.m., Fri., R; 9:30
 p.m., Wednesday, B
 Pickens Sisters, 9:30 p.m., Mon., R; 9:45 p.m., Sun., 8:30
 p.m., Wednesday, B

Carson Robison's Pioneers, 10:00 p.m., Thursday, B
 Lanny Ross, 9:00 p.m., Thursday, R
 Romantic Bachelor, 9:15 p.m., Wednesday, C
 Salon Singers, 10:15 p.m., Saturday, B
 Sanderson-Crumit, 8:00 p.m., Tuesday, R
 Ethel Shutta, 9:30 p.m., Saturday, R
 Singin' Sam, 8:15 p.m., Monday, Wednesday, Friday, C
 Sixteen Male Voices, 11:30 p.m., Wednesday, B
 Sizzlers Trio, 10:00 p.m., Monday, B
 Kate Smith, 8:30 p.m., Tuesday, Wednesday, Thursday, C
 Street Singer, 12:45 p.m., Sunday; 7:45 p.m., Saturday, C
 Tastyest Jesters, 7:15 p.m., Monday, B
 Three Keys, 6:30 p.m., Thursday, R; 10:45 p.m., Tuesday
 and Friday, B
 Three X Sisters, 6:30 p.m., Mon., Wed., Friday, B
 Lawrence Tibbett, 8:30 and 11:30 p.m., every other Mon-
 day, R
 Trade and Mark, 8:00 p.m., Fri., C; 7:45 p.m., Sunday, R
 Gus Van, 9:30 p.m., Saturday, R
 Whispering Jack Smith, 8:00 p.m., Mon. and Wed.: 8:15
 p.m., Thurs., C
 Women's Octet, 11:15 p.m., Tuesday, B

TALKS

America's Grub Street, 6:00 p.m., Saturday, C
 American Taxpayers' League, 8:00 p.m., Saturday, B
 Boake Carter, 7:45 p.m., daily, ex. Sat. and Sun., C
 Don Carney Dog Chats, 8:30 p.m., Monday, B
 Cook Travelogues, 1:15 p.m., Sunday, B
 Economic World Today, 8:30 p.m., Saturday, R
 William Hard, 6:30 p.m., Wednesday, R
 Edwin C. Hill, 10:30 p.m., Mon., Tues., Wed.; 9:30 p.m.,
 Friday, C
 Horlick's Health, 8:30 p.m., Tuesday and Friday, B
 International Forum, 2:15 p.m., Sunday, R
 H. V. Kaltenborn, 7:00 p.m., Sunday; 6:00 p.m., Thurs., C
 Warden Lawes, 9:00 p.m., Sunday, B
 David Lawrence, 10:00 p.m., Sunday, R
 Laws That Safeguard, 6:30 p.m., Saturday, B
 Lawyer and Public, 6:00 p.m., Sunday, C
 National Radio Forum, 10:30 p.m., Monday, R
 Our American Schools, 6:30 p.m., Sunday, R
 Angelo Patri, 7:45 and 11:15 p.m., Sunday, C
 Public Affairs Institute, 10:15 p.m., Saturday, C
 Radio in Education, 7:15 p.m., Tuesday, B
 Signum Spaoth, 10:00 p.m., Tuesday, B
 Lowell Thomas, 6:45 p.m., daily, ex. Sat. and Sun., D; 5:00
 p.m., Sunday, R
 Merle Thorpe, 7:15 p.m., Saturday, B
 Howard Thurston, 8:45 p.m., Thurs. and Fri., B
 Carveth Wells, 10:30 p.m., Wednesday, R
 Frederic William Wile, 7:00 p.m., Saturday, C
 Walter Winchell, 9:30 and 11:15 p.m., Sunday, B

KEY TO SYMBOLS

As Shown in the Index by
 Frequencies and Dial Numbers

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

	Second Column Symbols	B National "Blue" network.	P Has construction permit only.
a	Verifies reception for return post- age.	C Columbia network.	Q Great Lakes network.
b	Verifies only occasionally.	D Daytime only.	R National "Red" network.
c	Does not verify.	Dn Daytime with occasional evening hours.	S Sunday only.
d	Verification 10c; letter 25c.	E Trans-Canada network.	T Don Lee System.
e	Sends Ekko stamp for 10c.	F Canadian National Railways net- work.	U Dixie network.
f	Sends Ekko stamp for 5c.	G All Canadian networks.	V Maritime Broadcasting network
g	Sends Ekko stamp for postage.	H Yankee network.	W Curtis-Indiana network.
h	Sends own station stamp for 10c.	J Orange and gold network.	X Has permit to increase power.
i	Sends own station stamp for 5c.	K Mexican networks.	Y Has permit to change location.
j	Sends own station stamp for post- age.	L Canadian Pacific Ry. network (Dominion).	Z Has permit to change frequency.
k	Has no stamps.	M Canadian Radio Corp. network.	a-b-c. Small letters show stations using same transmitter.
z	No information available.	N National "Red" and "Blue" net- works.	1-2-3. Figures denote stations sharing time.
A	These stations are synchronized.	 No information.

INDEX BY FREQUENCIES AND DIAL NUMBERS

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FOR KEY TO SYMBOLS SEE PAGE 45

540 kilocycles 555.2 meters

CKOK	ae	5000	CG	Windsor, Ont.
KEY	z	105	546.8	Merida, Mex.

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Essex Broadcasters, Ltd.
Partido Socialista S. E.

550 kilocycles 545.1 meters

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

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

560 kilocycles 535.4 meters

KFDM	ak	500	(1)	Beaumont, Texas
KLZ	ae	1000	C	Denver, Colo.
KTAB	ae	1000	Y	San Francisco, Calif.
WFI	ae	500	1R	Philadelphia, Pa.
WIBO	ae	1000	(1.5)a	Chicago, Ill.
WLIT	ak	500	1R	Philadelphia, Pa.
WNOX	ak	1000	C(2)	Knoxville, Tenn.
WPCC	ak	500	Sa	Chicago, Ill.
WQAM	ae	1000	C	Miami, Fla.
XEAO	z	7.5		Mexicali, Mex.

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Sabine Broadcasting Co., Inc.
Reynolds Radio Co., Inc.
Associated Broadcasters, Inc.
WFI Broadcasting Co.
Nelson Bros. Bond & Mtg. Co.
Lit Bros. Broadcasting System, Inc.
WNOX Inc.
North Shore Congregational Church
Miami Broadcasting Co.
Luis L. Castro

570 kilocycles 526.0 meters

HIX	ah	1000	579	Santo Domingo, D. R.
KGKO	z	250	(.5)	Wichita Falls, Texas
KMTR	ae	500		Hollywood, Calif.
KVI	ae	500	C	Tacoma, Wash.
WEAO	ae	1000	1	Columbus, Ohio
WKBN	ak	500	1C	Youngstown, Ohio
WMCA	ak	500	3	New York, N. Y.
WNAX	ae	1000	C(2.5)	Yankton, S. D.
WNYC	ak	500	3	New York, N. Y.
WSYR	ak	250	B2	Syracuse, N. Y.
WWNC	ae	1000	N	Asheville, N. C.

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The Dominican Government
Wichita Falls Broadcasting Co.
KMTR Radio Corp.
Puget Sound Broadcasting Co.
Ohio State University
WKBN Broadcasting Corp.
Knickerbocker Broadcasting Co., Inc.
House of Gurney, Inc.
Dept. of Plant & Structures
Central N. Y. Brcdstg. Corp., (WMAC)
Citizens Broadcasting Co., Inc.

580 kilocycles 516.9 meters

CFCY	ae	500	E	Charlottetown, P. E. I.
CHMA	ak	250	4S	Edmonton, Alta.
CKCL	aj	500		Toronto, Ont.
CKUA	ak	500	4F	Edmonton, Alta.
CMDD	z	150	588	Havana, Cuba
KMJ	ak	500	CT	Fresno, Calif.
KSAC	ak	500	2(1)	New York, N. Y.
WDBO	ae	250	CU	Orlando, Fla.
WIBW	ae	1000	C2	Topeka, Kans.
WOBU	ak	250	1(.5)	Charleston, W. Va.
WSAZ	ak	250	1(.5)	Huntington, W. Va.
WTAG	ae	250	R(.5)	Worcester, Mass.
XEPN	z	100000	585	Piedras Negras, Mex.

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Island Radio Broadcasting Co., Ltd.
Christian & Missionary Alliance
The Dominion Battery Co.
University of Alberta
G. deSequeira
McClatchy Radio Stations (FresnoBee)
State Agricultural College
Orlando Broadcasting Co., Inc.
Topeka Brodstg Assn., Inc.
WOBU, Inc., Ruffner Hotel
WSAZ, Inc.
Worcester Telegram Pub. Co., Inc.
(Yolanda Hotel), Eagle Pass, Texas

590 kilocycles 508.2 meters

CJGC	ae	5000	595GZ	London, Ont.
CMW	ae	1400		Havana, Cuba
KHQ	ak	1000	N(2)	Spokane, Wash.
WCAJ	ae	500	1	Lincoln, Neb.
WEEL	ak	1000	R	Boston, Mass.
WKZO	ae	1000	D	Kalamazoo, Mich.
WOW	ae	1000	1R	Omaha, Neb.

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

INDEX BY FREQUENCIES AND DIAL NUMBERS

600 kilocycles 499.7 meters

CNRO	ak	500	F	Ottawa, Ont.
KFSD	ah	1000	N	San Diego, Calif.
WCAC	ak	250	2	Storrs, Conn.
WCAO	ae	250	C	Baltimore, Md.
WICC	ae	250	2H(.5)C	Bridgeport, Conn.
WMT	ak	500	C	Waterloo, Iowa
WREC	z	500	C(1)	Memphis, Tenn.

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

KCYS.
680
MTRS.
440.9
DIAL

610 kilocycles 491.5 meters

KFRC	ae	1000	C	San Francisco, Calif.
WDAF	ae	1000	R	Kansas City, Mo.
WJP	ak	500	C	Philadelphia, Pa.
WJAY	ae	500	D	Cleveland, Ohio
XETR	z	1000	.....	Mexico City, Mexico

Don Lee Broadcasting System
Kansas City Star Co.
Pennsylvania Bdtg. Co. (WFAN)
Cleveland Radio Broadcasting Corp.
Cia. Difusora Mexicana S. A.

620 kilocycles 483.6 meters

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

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

630 kilocycles 475.9 meters

CFCT	ae	500	G	Victoria, B. C.
CJGX	ae	500	FL	Yorkton, Sask.
CKOC	ae	1000	635aG	Hamilton, Ont.
CKTB	ae	1000	635aL	St. Catharines, Ont.
CMCU	z	150	.....	Havana, Cuba
CMQ	z	250	.....	Havana, Cuba
CNRA	ae	700	F	Moncton, N. B.
KFRU	ak	500	I	Columbia, Mo.
KGFX	z	200	D	Pierre, S. D.
WGBF	ae	500	W-1	Evansville, Ind.
WMAL	ae	250	(.5)-B	Washington, D. C.
WOS	ak	500	1D	Jefferson City, Mo.
XETF	ak	500	K	Veracruz, Ver., Mexico
XFG	z	2000	638.3	Mexico City, Mexico

Victoria Broadcasting Assn.
Winnipeg Grain Exchange
Wentworth Radio Bdtg. Co., Ltd.
Wentworth Radio Bdtg. Co., Ltd.
Jorge Garcia Serra
Jose Fernandez
Canadian National Railways
KFRU, Inc.
Dana McNeil
Evansville On the Air, Inc.
National Broadcasting Co.
Missouri State Marketing Bureau
Manuel Angel Fernandez
Sria. de Guerra y Marina

640 kilocycles 468.5 meters

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

CHRC, Ltd., Victoria Hotel
Le Soleil, Ltd.
Mitchell & Liddle
Earl: C. Anthony, Inc.
Associated Radiocasting Corp.
State College of Agriculture

650 kilocycles 461.3 meters

KPCB	ae	100	.....	Seattle, Wash.
WSM	aej	5000	N	Nashville, Tenn.

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

660 kilocycles 454.3 meters

CHWK	ak	100	665	Chilliwack, B. C.
CJRM	z	500	665	Moose Jaw, Sask.
CJRW	z	1000	665	Fleming, Sask.
CMAF	ak	500	.....	Havana, Cuba
RUS	z	500	664	Salvador
WAAW	agh	500	D	Omaha, Neb.
WEAF	ak	5000	R	New York City
XEM	z	50000	.....	Matamoros, Mex.

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

670 kilocycles 447.5 meters

WMAQ	ae	5000	N	Chicago, Ill.
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WMAQ, Inc. (NBC Lessees)

680 kilocycles 440.9 meters

HJN	z	2000	685	Bogota, Colombia
KFEQ	ae	2500	D	St. Joseph, Mo.
KPO	ak	5000	N	San Francisco, Calif.
WPTF	ae	1000	N Dn	Raleigh, N. C.

Scroggin & Co., Bank
National Broadcasting Co., Inc.
Durham Life Insurance Co.

INDEX BY FREQUENCIES AND DIAL NUMBERS

690 kilocycles 434.5 meters

CFAC	ak	500	1G	Calgary, Alta.
CFRB	ae	10000	CM	Toronto, Ont.
CJCJ	ak	500	1LE	Calgary, Alta.
NAA	z	1000	.....	Arlington, Va.
VAS	z	2000	685(4)	Glace Bay, N. S.
XET	ck	500	.....	Monterrey, Mexico

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

700 kilocycles 428.3 meters

NLW	ae	50000	N	Cincinnati, Ohio
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The Crosley Radio Corporation		

710 kilocycles 422.3 meters

KMPG	ae	500	Dn	Beverly Hills, Calif.
WOR	ak	5000	X	Newark, N. J.
KEN	agj	1000	711K	Mexico City

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

720 kilocycles 416.4 meters

VGN	ak	25000	C	Chicago, Ill.
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WGN, Inc., Drake Hotel		

730 kilocycles 410.7 meters

CHLS	ak	100	1b	Vancouver, B. C.
CHYC	z	5000	Sa	Montreal, Que.
KAC	ak	5000	CaM	Montreal, Que.
KCD	z	100	1b	Vancouver, B. C.
KFC	ak	50	1	Vancouver, B. C.
KMO	z	100	1	Vancouver, B. C.
KWX	ak	100	1L	Vancouver, B. C.
CMK	aeH	3150	.....	Havana, Cuba
KEF-XER	z	75000	735-665	Villa Acuna, Mexico

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

740 kilocycles 405.2 meters

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

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

750 kilocycles 399.8 meters

XGU	aj	2500	NX	Honolulu, Hawaii
OWR	ak	750	.....	St. John's, N. F.
WJR	ak	10000	B	Detroit, Mich.
XEAN	aeH	5000	.....	Juarez, Chih., Mexico

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

760 kilocycles 394.5 meters

XXA	ae	250	(.5)	Seattle, Wash.
WBAL	ae	10000	BA	Baltimore, Md.
WEW	ae	1000	D	St. Louis, Mo.
WJZ	ck	50000	BA	New York City

American Radio Tel. Co.		
(See 1060 kcys. also)		
St. Louis University		
National Broadcasting Co., Inc.		

770 kilocycles 389.4 meters

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

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

780 kilocycles 384.4 meters

CKY	z	5000	.....	Winnipeg, Man.
CMBS	z	150	.....	Havana, Cuba
CMCQ	z	1000	.....	Havana, Cuba
KELW	aeH	500	2	Burbank, Calif.
KTM	ae	500	2(1)	Los Angeles, Calif.
WEAN	ak	500	CH	Providence, R. I.
WMC	ak	500	N(1)	Memphis, Tenn.
WPOR	aeH	500	b	Portsmouth, Va.
WTRAR	aeH	500	bC	Norfolk, Va.
XEP	z	1000	.....	Mexico City

Manitoba Telephone System		
Enrique Artalejo		
Andres Martinez		
Magnolia Park, Ltd.		
Pickwick Broadcasting Corp., Ltd.		
Shepard Broadcasting Service, Inc.		
Memphis Commercial Appeal, Inc.		
WTAR Radio Corp. (Norfolk)		
WTAR Radio Corp.		
Cia. Difusora de Mexico S. A.		

790 kilocycles 379.5 meters

CMHC	z	250	.....	Tuinucu, Cuba
CMJK	aeH	300	.....	Camaguey, Cuba
KGO	ak	7500	N	San Francisco, Calif.
WGY	ak	50000	R	Schenectady, N. Y.

Frank H. Jones		
Tano Gomez		
General Electric Co. (Opr. NBC)		
General Electric Co.		

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800 kilocycles 374.8 meters

WBAP ak 50000 Na Fort Worth, Texas
WFAA ak 50000 Na Dallas, Texas

Carter Publications, Inc.
Dallas News-Dallas Journal

810 kilocycles 370.2 meters

CHNS ae 500 815aZG Halifax, N. S.
CNRH ak 500 815aZ Halifax, N. S.
VOAS ak 200 D St. John's, N. F.
WCCO ak 50000 C Minneapolis, Minn.
WPCF ak 500 D New York City
XFC z 350 Aguascalientes, Mex.
XFI z 1000 818 Mexico City, Mexico

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

KCYS.

890

MTRS.

336.9

DIAL

820 kilocycles 365.6 meters

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

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

830 kilocycles 361.2 meters

CMGA z 100 834 Colon, Cuba
KOA ak 12500 NJ Denver, Colo.
WEEU ak 1000 D Reading, Pa.
WHDH ae 1000 D Boston, Mass.
WRUF ae 5000 DnC Gainesville, Fla.
XETW z 500 Mexico City, Mexico

L. Valdes Figueroa
General Electric Co. (NBC Opr.
Berks Broadcasting Co.
Matheson Radio Co., Inc.
State of Florida (Univ. of Fla.)
Rafael M. Pena

840 kilocycles 356.9 meters

CHNC z 5000 a Toronto, Ont.
CKGW ae 5000 NEa Toronto, Ont.
CKLC ak 1000 G Red Deer, Alta.
CMC z 500 Havana, Cuba
CPRY ae 5000 La Toronto, Ont.
XETH z 100 Puebla, Mexico
XETM z 150,000 P845 Matamoros, Mex.
XFB z 500 Jalapa, Mexico

Canadian National Carbon Co., Ltd.
Gooderham & Worts, Ltd.
Alberta Pacific Grain Co., Ltd.
Cuban Telephone Co.
Canadian Pacific Co., Royal York Hotel
Ramon Huerta
Miguel Musquiz, A.
Estado de Vera Cruz

850 kilocycles 352.7 meters

KIEV z 100 D Glendale, Calif.
KWKH ae 10000 1D Shreveport, La.
WWL ak 10000 1DnX New Orleans, La.

Cannon Systems, Inc.
Hello World Broadcasting Corp.
WWL Development Co. (Loyola Univ.)

860 kilocycles 348.6 meters

VOGY z 500 P St. John's, N. F.
WABC ae 50000 aC New York City
WBOQ ae 50000 aC New York City
WHB ae 500 D Kansas City, Mo.
XFX z 500 Mexico City, Mexico

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

870 kilocycles 344.6 meters

WENR ak 50000 Na Chicago, Ill.
WLS ae 50000 Na Chicago, Ill.
XEAD z 250 875 Mexico City, Mex.

Great Lakes Bdctg. Co. NBC Opr.
Agricultural Broadcasting Co.
Julio Zetina Osorio

880 kilocycles 340.7 meters

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

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

890 kilocycles 336.9 meters

CFBO z 500 St. John, N. B.
CKCO z 100 3 Ottawa, Ont.
CKPR ak 100 3G Fort William, Ont.
CMCF ak 250 1 Havana, Cuba
CMX ae 500 1 Havana, Cuba
KARK ak 250 Little Rock, Ark.
KFNK ak 500 2(1) Shenandoah, Iowa
KSEI ae 250 (.5) Pocatello, Idaho
KUSD ae 500 2 Vermillion, S. Dak.

C. A. Munro, Ltd.
Dr. G. M. Geldert
Dougall Motor Car Co., Ltd.
Raoul Karman, Casa DelaPorte
Casa "Lavin" Francisco A. Lavin, Adm.
Arkansas Radio & Equipment Co.
Henry Field Company
Radio Service Corporation
University of South Dakota

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VOGT z 400 893
 WGST ae 250 C(.5)
 WILL ak 250 2(.5)
 WJAR ae 500 R
 WMMN aeh 250 (.5)
 XETU z 100

Wabana, N. F.
 Atlanta, Ga.
 Urbana, Ill.
 Providence, R. I.
 Fairmont, W. Va.
 Pachuca, Mexico

The Gaiety Theatre
 Southern Broadcasting Co.
 University of Illinois
 The Outlet Co.
 A. M. Rowe, Inc.
 Rodrigo Mariquez

900 kilocycles 333.1 meters

KGBU ak 500
 KHJ ae 1000 CT
 WBEN ae 1000 R
 WJAX aeh 1000 N
 WKY ae 1000 N
 WLBL ae 2000 D

Ketchikan, Alaska
 Los Angeles, Calif.
 Buffalo, N. Y.
 Jacksonville, Fla.
 Oklahoma City, Okla.
 Stevens Point, Wis.

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

910 kilocycles 329.6 meters

CFQC z 500
 CFLC ae 100 915
 TIGR z 50 911
 XEW ak 5000
 XFF z 500 915

Saskatoon, Sask.
 Prescott, Ont.
 San Jose, Costa Rica
 Mexico City, Mexico
 Chihuahua, Mex.

The Electric Shop, Ltd.
 Radio Association of Prescott

Cadena Radio-difusora Mexicana S. A.
 Gobierno del Estado de Chihuahua

920 kilocycles 325.9 meters

CMBW z 150 925
 CMCN z 250 925
 CMDE z 250 925
 HHK z 1000
 KFEL ak 500 1
 KFXF ae 500 1
 KOMO aj 1000 N
 KPRC ae 1000 N(2.5)
 WAAF ak 500 D
 WBSO ae 500 D
 WWJ ak 1000 R

Havana, Cuba
 Havana, Cuba
 Havana, Cuba
 Port au Prince, Haiti
 Denver, Colo.
 Denver, Colo.
 Seattle, Wash.
 Houston, Texas
 Chicago, Ill.
 Babson Park, Mass.
 Detroit, Mich.

Alvarez-Moris
 Antonio Ginard
 Evilio Villar
 Republic of Haiti
 Gene O'Fallon (Albany Hotel)
 Colorado Radio Corp.
 Fisher's Blend Station, Inc.
 Houston Printing Co. (Houston Post
 Drivers Journal Publishing Co.
 Broadcasting Service Org., Inc.
 The Detroit News

930 kilocycles 322.4 meters

CFCH ak 100 3LM
 CFRC ak 50 3(.2)
 CKX ak 500 E
 CMJF z 200
 KFW1 aj 500 1
 KGBZ ak 500 2(1)
 KMA ae 500 2(1)
 KROW ak 500 1(1)
 WBRC ak 500 C(1)
 WDBJ ae 250 C(.5)
 WIBG ae 25 D

North Bay, Ont.
 Kingston, Ont.
 Brandon, Manitoba
 Camaguey, Cuba
 San Francisco, Calif.
 York, Neb.
 Shenandoah, Iowa
 Oakland, Calif.
 Birmingham, Ala.
 Roanoke, Va.
 Glenside, Penna.

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

940 kilocycles 319.0 meters

KOIN zk 1000 CT
 WAAT ae 300 D
 WCSH ae 1000 R(2.5)
 WDAY ae 1000 N
 WFIW ak 1000 C
 WHA ak 1000 D
 XEFO ak 5000 (3.5)

Portland, Ore.
 Jersey City, N. J.
 Portland, Maine
 Fargo, No. Dakota
 Hopkinsville, Ky.
 Madison, Wis.
 Mexico City, Mexico

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

950 kilocycles 315.6 meters

CMHD z 250
 KFWB ak 1000
 KGFL ak 1000 NJ(2.5)
 KMBC ae 1000 C
 VONA z 100
 WRC ak 500 N

Caibarien, Cuba
 Los Angeles, Calif.
 Billings, Mont.
 Kansas City, Mo.
 St. John's, N. F.
 Washington, D. C.

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

960 kilocycles 312.3 meters

CHCK ak 100 V
 CHWC ak 500 3FL
 CKCK ak 500 3FL
 CKNC ak 500 M
 CMAY z 150 965
 CMBD z 150 965
 CMCW ak 150 965
 XEAW z 1000 965
 CMJL z 50
 YVIBC ak 5000

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

J. A. Gesner & W. E. Burke
 R. H. Williams & Sons, Ltd.
 Leader Post, Ltd. (Leader Bldg.)
 Canadian National Carbon Co., Ltd.
 Egenio Oliver
 Luis Perez Garcia
 Vilario y Cervantes
 International Broadcasting Co.
 Enrique Artimes
 Broadcasting Caracas

INDEX BY FREQUENCIES AND DIAL NUMBERS

970 kilocycles 309.1 meters

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

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Fishers Blend Station, Inc.
Chicago Federation of Labor

980 kilocycles 303.9 meters

CFCN ak 10000 985FL Calgary, Alberta
CMGF z 100 987 Matanzas, Cuba
KDKA ak 50000 B Pittsburgh, Pa.

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The Voice of the Prairies, Ltd.
Bernabe R. de la Torre
Westinghouse Elec. & Mfg. Co.

990 kilocycles 302.8 meters

WBZ ak 25000 BA Boston, Mass.
WBZA ak 1000 BA Springfield, Mass.
XEK z 101 Mexico City, Mexico

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

1000 kilocycles 299.8 meters

KFVD ak 250 Dn Los Angeles, Calif.
WHO z 5000 RAX Des Moines, Iowa
WOC ak 5000 RAX Davenport, Iowa
WORK aj 1000 D York, Pa.
XEA ak 100 Guadalajara, Mexico
XEC z 50 Toluca, Mexico
XEFE z 100 N. Laredo, Tams., Mex.
XEFI z 100 Chihuahua, Mexico
XEFJ z 100 Monterrey, Mexico
XEF3 z 40 Queretaro, Mexico
XEL ak 10 Saltillo, Mexico
XETC z 100 Jalapa, Ver. - Mexico

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Los Angeles Broadcasting Co.
Central Broadcasting Co.
Central Broadcasting Co.
York Broadcasting Co.
Radiofonografica de Guadalajara, S.A.
Jesus R. Benavides
Rafael T. Carranza
Feliciano Lopez Islas
Rodolfo Junco de la Vega
Salvador Sanchez
Antonio Garza Castro y J. T. Perez
Juventino Sanchez

KCYS.

1050

MTRS.

285.5

DIAL

1010 kilocycles 296.9 meters

CFCO ak 250 Chatham, Ont.
CKIK ak 50 Wolfville, N. S.
CMBZ ak 150 Havana, Cuba
CMKC z 150 Havana, Cuba
KGGF ak 500 2(1) Coffeyville, Kans.
KQW ae 500 T San Jose, Calif.
WHN ae 250 1 New York City
WIS ae 500 N(1) Columbia, S. C.
WNAD ae 500 2 Norman, Okla.
WPAP ae 250 1a New York City
WQAO ae 250 1a New York City
WRNY z 250 1 New York City
XEJ ak 500 K1015 Juarez, Mexico
XEU ak 100 Veracruz, Mexico

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John Beardall (Wm. Pitt Hotel)
Acadia University
Manuel & Guillermo Salas
Diario "El Mundo"
Powell & Platz
Pacific Agricultural Foundation, Ltd.
Marcus Loew Booking Agency
WIS, Inc.
University of Oklahoma
Marcus Loew Booking Agency
Marcus Loew Booking Agency
Marcus Loew Booking Agency
Juan G. Buttner & Leo Allande
Baltasat Pazos Sosa

1020 kilocycles 293.9 meters

KYW ae 10000 N Chicago, Ill.
WRAX ae 250 D Philadelphia, Pa.
XEFC z 10 Merida, Yuc.
XEFD z 300 Tijuana, Mex.

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Westinghouse Elec. & Mfg. Co. (KFKX)
WRAX Broadcasting Co.
Hugo Molina Font
Carlos de la Sierra

1030 kilocycles 291.1 meters

CFCF ae 500 NG Montreal, Que.
CMHI ck 30 a Santa Clara, Cuba
CMKC z 150 1034a Santiago de Cuba
CNRV ak 500 Vancouver, B. C.
XEB ak 10000 Mexico City, Mexico

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Canadian Marconi Co.
Laviz & Paz
Pinol Batlle y Co.
Canadian National Railways
El Buen Tono, S. A.

1040 kilocycles 288.3 meters

CMGH z 15 Matanzas, Cuba
KRLD ae 10000 1C Dallas, Tex.
KTHS ae 10000 1N Hot Springs, Ark.
WESG ae 1000 D Elmira, N. Y.
WKAR ae 1000 D East Lansing, Mich.

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O. y J. Alvarez
KRLD Radio Corp. (Adolphus Hotel)
Chamber of Commerce
WESG, Inc.
Michigan State College

1050 kilocycles 285.5 meters

CMJG z 50 Camaguey, Cuba
KFBI ae 5000 Dn Abilene, Kans.
KNX ae 25000 X Hollywood, Calif.
XES dk 250 1055K Tampico, Mexico

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Jose Antonio Lefran
Farmers & Bankers Life Ins. Co.
Western Broadcast Co.
Difusora Portena

INDEX BY FREQUENCIES AND DIAL NUMBERS

1060 kilocycles 282.8 meters

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

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

1070 kilocycles 280.2 meters

CMBG	z	225	.....	Havana, Cuba
CMCB	af	150	.....	Havana, Cuba
KJBS	ae	100	D	San Francisco, Calif.
WCAZ	ae	50	D	Carthage, Ill.
WDZ	ak	100	D	Tuscola, Ill.
WTAM	ak	50000	R	Cleveland, Ohio
XEG	z	500	1075	Mexico City, Mexico

John L. Stowers
Metropolitan-Radio de Cuba
Julius Brunton & Sons Co.
Superior Bdctg. Service, Inc.
James L. Bush
National Broadcasting Co., Inc.
Ricardo Gonzales Montero

1080 kilocycles 277.6 meters

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

Station WBT, Inc.
Wilbur Glenn Voliva
Moody Bible Institute

1090 kilocycles 275.1 meters

KMOX	ak	50000	C	St. Louis, Mo.
XEAI	z	100	.....	Mexico City, Mex.

Voice of St. Louis, Inc.
Carlos Gonzales Caballero

1100 kilocycles 272.6 meters

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

E. F. Peffer
Missionary Society of St. Paul
Municipality of Atlantic City

1110 kilocycles 270.1 meters

CMJO	z	50	.....	Ciego de Avila, Cuba
KS00	ae	1000	Dn(2.5)	Sioux Falls, So. Dak.
WRVA	ae	5000	N	Richmond, Va.
XENT	z	150000	1115	Neuvo Laredo, Mex.

Rey-Borges
Sioux Falls Broadcast Assn., Inc.
Larus & Bros. Co., Inc.
Compania Industrial Universal, S. A.

1120 kilocycles 267.7 meters

CFA	ak	500	G	Toronto, Ont.
CFJC	ak	100	EL	Kamloops, B. C.
CHGS	ce	100	VX	Summerside, P. E. I.
CJOC	ak	100	.....	Lethbridge, Alta.
CMHJ	ae	40	1125	Cienfuegos, Cuba
KFIO	ae	100	D	Spokane, Wash.
KFSG	ak	500	a	Los Angeles, Calif.
KRKC	ae	500	a	Los Angeles, Calif.
KRSC	ak	100	D	Seattle, Wash.
KTRH	ak	500	2C	Houston, Tex.
WDEL	aj	250	(.5)	Wilmington, Del.
WHAD	ae	250	1C	Milwaukee, Wis.
WISN	ak	250	1C	Milwaukee, Wis.
WTAW	ae	500	2	College Station, Texas

Toronto Daily Star
Review Publishing Co., Ltd.
R. T. Holman, Ltd.
Harold R. Carson
Victorino Lopez (Hotel Bristol)
Spokane Broadcasting Corp.
Echo Park Evangelistic Assn.
Fireside Broadcasting Co.
Radio Sales Corp. (Wash. Ath. Club)
KTRH Broadcasting Co. (Rice Hotel)
WDEL, Inc.
Marquette University
American Radio News Corp.
Agricultural & Mech. College

1130 kilocycles 265.3 meters

KSL	ae	50000	C	Salt Lake City, Utah
WJJD	ze	20000	Dn	Chicago, Ill.
W0V	ae	1000	D	New York City
XOH	ak	250	1132	Monterrey, Mexico

Radio Service Corp. of Utah
WJJD, Inc. (Palmer House)
International Broadcasting Corp.
Tarnava & Cia

1140 kilocycles 263.0 meters

CMBJ	z	150	.....	Havana, Cuba
CMCD	ae	250	.....	Havana, Cuba
KV00	ae	5000	1N	Tulsa, Okla.
WAPI	aj	5000	1N	Birmingham, Ala.
XETA	z	250	.....	Mexico City, Mexico

Emilio Perera
Angel Bertematy y Garcia
Southwestern Sales Corp.
WAPI Broadcasting Corp.
Manuel Espinosa Tagle

1150 kilocycles 260.7 meters

CMJH	ak	30	.....	Ciego de Avila, Cuba
WHAM	ae	5000	BX	Rochester, N. Y.
XED	z	500	1155	Guadalajara, Mex.
10-AT	ak	25	1155	Trail, B. C.

Luis Marauri Mendoza
Stromberg-Carlson Tel. Mfg. Co.
International Broadcasting Co.
Trail Amateur Radio Assn.

INDEX BY FREQUENCIES AND DIAL NUMBERS

1160 kilocycles 258.5 meters

WOWO	ae	10000	1C	Fort Wayne, Ind.
WWVA	ae	5000	1C	Wheeling, W. Va.

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Main Auto Supply Co.
West Virginia Broadcasting Corp.

1170 kilocycles 256.3 meters

CMJE	z	50	1175	Camaguey, Cuba
WCAU	ae	50000	C	Philadelphia, Pa.

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Manuel Fernandez
WCAU Broadcasting Co.

1180 kilocycles 254.1 meters

CMBN	ak	150	1185	Havana, Cuba
CMCJ	z	250	1185	Havana, Cuba
KEX	ak	5000	2N	Portland, Ore.
KOB	ae	20000	2	Albuquerque, N. M.
WDGY	ak	1000	Dn	Minneapolis, Minn.
WINS	ae	500	New York City
WMAZ	ak	500	Macon, Ga.

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G. de Sequeira
Rafael Rodriguez
National Broadcasting Co.
N. M. Coll. of Agr. & Mechanical Arts
George W. Young
American Radio News Corp.
Southeastern Broadcasting Co.

1190 kilocycles 252.0 meters

WOAI	ae	50000	N	San Antonio, Texas
VOAF	z	500	1195	St. John's, N. F.

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Southern Equipment Co.
Dominion Brdctg. Co., Ltd.

1200 kilocycles 249.9 meters

CHCH	z	100	2	Montreal, Que.
CHLP	z	100	2	Montreal, Que.
CKOV	ak	100	.....	Kelowna, B. C.
CMGB	z	30	1205	Matanzas, Cuba
KBTM	ak	100	D	Paragould, Ark.
KERN	ak	100	CT	Bakersfield, Calif.
KFJB	ak	100	(.25)	Marshalltown, Iowa
KFWF	ak	100	5	St. Louis, Mo.
KFXD	ae	100	.....	Nampa, Idaho
KFKJ	ak	100	.....	Grand Junction, Colo.
KGDE	ae	100	(.25)	Fergus Falls, Minn.
KGEK	ak	100	9	Yuma, Colo.
KGEW	ak	100	9	Ft. Morgan, Colo.
KGFJ	ae	100	.....	Los Angeles, Calif.
KGHI	ak	100	.....	Little Rock, Ark.
KGVO	ak	100	.....	Missoula, Mont.
KMLB	ae	100	.....	Monroe, La.
KVOS	z	100	.....	Bellingham, Wash.
KWG	ak	100	CT	Stockton, Calif.
WABI	ak	100	.....	Bangor, Maine
WABZ	ak	100	1	New Orleans, La.
WBBZ	ak	100	.....	Ponca City, Okla.
WBHS	ak	100	4	Huntsville, Ala.
WCAT	ak	100	D	Rapid City, S. D.
WCAX	ak	100	.....	Burlington, Vt.
WCLO	ak	100	.....	Janesville, Wis.
WFAM	ae	100	3	Harrisburg, Pa.
WFBC	z	100	8C	South Bend, Ind.
WFBE	ak	100	(.25)4	Greenville, S. C.
WHBC	ak	100	(.25)	Cincinnati, Ohio
WHBY	ak	100	.....	Canton, Ohio
WIBX	z	100	(.3)	Green Bay, Wis.
WIL	ae	100	5(.25)	Utica, N. Y.
WJBC	ae	100	6	St. Louis, Mo.
WJBL	ae	100	6	LaSalle, Ill.
WJBW	ak	100	1	Decatur, Ill.
WKJC	ae	100	3	New Orleans, La.
WLAP	ae	100	(.25)	Lancaster, Pa.
WNBO	ae	100	(.1) ..	Louisville, Ky.
WNBW	z	10	(.1)	Washington, Pa.
WORC	ak	100	CH	Carbondale, Pa.
WPHR	ae	100	(.25)	Worcester, Mass.
WRBL	ak	100	.....	Petersburg, Va.
WWAE	ae	100	8	Columbus, Ga.
10-AB	ak	25	.....	Hammond, Ind.
10-AK	ak	15	.....	Moose Jaw, Sask.
10-BI	ak	25	.....	Stratford, Ont.
10-BP	ak	25	1199	Prince Albert, Sask.
10-BQ	ak	15	Wingham, Ont.
10-BU	z	15	Brantford, Ont.
				Canora, Sask.

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Montreal Radio Corp.
La Patrie, Ltd.
Okanagan Broadcasters, Ltd.
Jose Anorga
Beard's Temple of Music
Bee Bakersfield Broadcasting Co.
Marshall Electric Co., Inc.
St. Louis Truth Center, Inc.
Frank E. Hurt (R/C Boise)
Western Slope Brdctg. Co.
Jaren Drug Co.
Beehler Electrical Equipment Co.
City of Fort Morgan
Ben. S. McGlashan
Lloyd Judd Co.
Mosby's, Inc.
Liner's Broadcasting Station, Inc.
KVOS, Inc.
McClatchy Newspapers
First Universalist Society
Samuel D. Reeks
C. L. Carrell (R/C various cities)
Radio Station WBHS, Inc.
State School of Mines
Burlington Daily News
WCLO Radio Corp. (R/C Bcloit)
Keystone Broadcasting Corp.
South Bend Tribune (WSBT)
News-Piedmont Co.
Radio Station WFBE, Inc.
Edward P. Graham
WHBY, Inc.
WIBX, Inc.
Missouri Broadcasting Corp.
Kaskaskia Broadcasting Co.
Commodore Broadcasting, Inc.
C. C. Carlson
Lancaster Bdctg. Service, Inc.
American Broadcasting Corp. of Ky.
Spriggs Symplex
WNBW, Inc.
A. F. Kleindienst
WLBG, Inc.
WRBL Radio Station, Inc.
Hammond-Calumet Bdctg. Corp.
Moose Jaw Radio Assn.
M. I. Higgins Elec. & Radio Co.
Prince Albert Radio Club
W. T. Cruickshank
Tom Brown & Harold Brown
Canora Radio Assn.

KCYS.
1210
MTRS.
247.8
DIAL

1210 kilocycles 247.8 meters

CFNB	ae	100	E	Fredericton, N. B.
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James S. Neill & Sons, Ltd.

INDEX BY FREQUENCIES AND DIAL NUMBERS

CJOR	ak	500	E	Vancouver, B. C.	George C. Chandler
CKMC	ak	100	8	Cobalt, Ont.	R. L. McAdam
KASA	ak	100	.....	Elk City, Okla.	E. M. Woody (Casa Grande Hotel)
KDLR	ak	100	.....	Devils Lake, N. Dak.	KDLR, Inc.
KFJI	ak	100	.....	Klamath Falls, Ore.	KFJI Broadcasters, Inc.
KFOR	ak	100	(.25)	Lincoln, Neb.	Howard A. Shuman
KFPW	ak	100	.....	Fort Smith, Ark.	Southwestern Hotel Co.
KFPV	ae	100	6	Cape Girardeau, Mo.	Oscar C. Hirsch
KFXM	ak	100	9	San Bernardino, Calif.	J. C. & E. W. Lee
KGCR	ah	100	.....	Watertown, S. Dak.	Greater Kampeska Radio Corp.
KGNO	ak	100	.....	Dodge City, Kans.	Dodge City Broadcasting Co.
KGY	ak	100	.....	Olympia, Wash.	KGY, Inc. (Capitol Park Bldg.)
KIEM	z	100	DP	Eureka, Calif.	Harold H. Hanseth
KPPC	ak	50	9	Pasadena, Calif.	Pasadena Presbyterian Church
KWEA	z	100	.....	Shreveport, La.	Hello World Broadcasting Corp.
WALR	ae	100	.....	Zanesville, Ohio	WALR Broadcasting Corp.
WBAX	ae	100	1	Wilkes-Barre, Pa.	John H. Stenger, Jr. (Morris Bldg.)
WBBL	ak	100	7S	Richmond, Va.	Grace Covenant Pres. Church
WCBS	ak	100	2	Springfield, Ill.	WCBS, Inc.
WCRW	ae	100	4	Chicago, Ill.	Clinton R. White
WEBO	ae	100	6	Harrisburg, Ill.	Harrisburg Broadcasting Co.
WEDC	z	100	4	Chicago, Ill.	Emil Denmark, Inc.
WFAS	z	100	3	White Plains, N. Y.	Westchester Broadcasting Corp.
WGBB	ae	100	3	Freeport, N. Y.	Harry H. Carman
WGCN	ae	100	.....	Gulfport, Miss.	Great Southern Land Co.
WGNV	z	50	P	Chester, N. Y.	Peter Goelet (Orange County)
WHBF	ae	100	.....	Rock Island, Ill.	Rock Island Broadcasting Co.
WHBU	aj	100	.....	Anderson, Ind.	Anderson Broadcasting Corp.
WHET	ak	100	D	Troy, Ala.	Troy Broadcasting Co.
WIBU	ae	100	.....	Poyntte, Wis.	Wm. C. Forrest
WIBI	ak	100	3	Red Bank, N. J.	Monmouth Broadcasting Co., Inc.
WIBU	ae	100	1	Lewisburg, Pa.	Bucknell University
WIBY	ae	100	.....	Gadsden, Ala.	Ingrams Broadcasting Co.
WIEJ	ae	100	D	Hagerstown, Md.	A. V. Tidmore
WIW	ae	100	.....	Akron, Ohio	WIW, Inc.
WKFI	ak	100	.....	Greenville, Miss.	J. Pat Scully
WMBG	aj	100	7C	Richmond, Va.	Havens & Martin, Inc.
WOCJ	ak	50	.....	Jamestown, N. Y.	A. E. Newton
WOMT	ae	100	.....	Manitowoc, Wis.	Francis Mangin Kadow
WPAA	ak	100	aY	Providence, R. I.	Cherry & Webb Broadcasting Co.
WPRO	ak	100	aY	Providence, R. I.	Cherry & Webb Broadcasting Co.
WODX	z	100	.....	Thomasville, Ga.	Stevens Luke
WSBC	z	100	4	Chicago, Ill.	WSBC, Inc.
WSEN	ak	100	.....	Columbus, Ohio	Columbus Bdctg. Corp. (Seneca Hotel)
WSIX	ae	100	.....	Springfield, Tenn.	638 TC & Vulc. Co. (R/C WLW)
WSOC	ae	100	.....	Gastonia, N. C.	WSOC, Inc.
WTAX	ae	100	2	Springfield, Ill.	WTAX, Inc.
XEX	z	500	.....	Mexico City, Mexico	Excelsior, Cia Editorial S. A.

1220 kilocycles 245.8 meters

CMHK	z	15	1225	Cruces, Cuba	V. Villaneuva
KFKU	ae	500	a	Lawrence, Kans.	University of Kansas
KTW	z	1080	2S	Seattle, Wash.	First Presbyterian Church
KWSC	ae	1000	3(2)	Pullman, Wash.	State College of Washington
WCAD	ak	500	D	Canton, N. Y.	St. Lawrence University
WCAE	ae	1000	R	Pittsburgh, Pa.	WCAE, Inc. and Sun-Telegraph
WDAE	ak	1000	C	Tampa, Fla.	Tampa Daily Times (Tampa Terrace)
WREN	ak	1000	aB	Lawrence, Kans.	Jenny Wren Co.

1230 kilocycles 243.8 meters

CMBY	z	250	.....	Havana, Cuba	Callejas-Estefani
CMCA	z	150	.....	Havana, Cuba	Manuel Cruz
KFOD	aj	250	.....	Anchorage, Alaska	Anchorage Radio Club, Inc.
KGGM	ak	250	(.5)	Albuquerque, N. M.	New Mexico Broadcasting Co.
KYA	ae	1000	N	San Francisco, Calif.	Pacific Broadcasting Co.
WFBM	ae	1000	1C	Indianapolis, Ind.	Indianapolis Power & Light Co.
WNAC	ae	1000	CH	Boston, Mass.	Shepard Broadcasting Service, Inc.
WSBT	ak	500	1C	South Bend, Ind.	South Bend Tribune (WFAM)

1240 kilocycles 241.8 meters

CMAB	z	20	1249	Pinar del Rio, Cuba	Jose Silvera
CMJN	z	50	.....	Camaguey, Cuba	E. de Ugarriza
KGCU	ak	250	3	Mandan, N. Dak.	Mandan Radio Assn.
KLPM	ak	250	3	Minot, N. Dak.	John B. Cooley

INDEX BY FREQUENCIES AND DIAL NUMBERS

KTAT	ak	1000	1	Fort Worth, Texas	KTAT Broadcast Co., Inc.
KTFI	ak	500	.....	Twin Falls, Idaho	Radio Broadcasting Corp. of Idaho
WACO	ak	1000	1C	Waco, Texas	Central Texas Broadcasting Co.
WKAO	ae	1000	.....	San Juan, P. R.	Radio Corp. of Porto Rico
WXYZ	ak	1000	.....	Detroit, Mich.	Kunsky-Trendle Broadcasting Corp.
XEFW	z	70	.....	Tampico, Mex.	Jose Expedito Martinez

1250 kilocycles 239.9 meters

KFMX	aj	1000	2	Northfield, Minn.	Carleton College
KFOX	ae	1000	CT	Long Beach, Calif.	Nichols & Warinner, Inc
WAAM	ae	1000	1(2.5)	Newark, N. J.	WAAM, Inc.
WCAL	ae	1000	2	Northfield, Minn.	St. Olaf College
WDSU	ak	1000	C	New Orleans, La.	Jos. H. Uhalt
WGCP	ak	250	1	Newark, N. J.	May Radio Broadcasting Co.
WLB	ak	1000	2	Minneapolis, Minn.	University of Minnesota
WODA	z	1000	1	Paterson, N. J.	Richard E. O'Dea
WRHM	ae	1000	2	Minneapolis, Minn.	Minnesota Broadcasting Corp.
XEFA	z	500	.....	Mexico City, Mexico	Eduardo Limon Segui

1260 kilocycles 238.0 meters

KOIL	ak	1000	B	Council Bluffs, Iowa	Mona Motor Oil Co.
KRGV	ae	500	1	Harlingen, Texas	KRGV, Inc. (Rio Grande Na. Life Bldg.)
KVOA	ak	500	.....	Tucson, Arizona	Robert M. Riculfi
KWWG	z	500	1	Brownsville, Texas	Frank P. Jackson
WLBW	ae	500	C(1)	Eric, Pa.	Broadcasters of Pennsylvania, Inc.
WNBX	ak	250	D	Springfield, Vt.	WNBX Broadcasting Corp.
WTOC	ae	500	CU	Savannah, Ga.	Savannah Broadcasting Co., Inc.

1270 kilocycles 236.1 meters

CMBC	ae	150	.....	Havana, Cuba	Domingo Fernandez
KGCA	ak	100	D2	Decorah, Iowa	Chas. W. Greenley
KOL	ae	1000	CT	Seattle, Wash.	Seattle Broadcasting Co.
KVOR	ae	1000	C	Colorado Springs, Col.	Reynolds Radio Co., Inc.
KWLK	ak	100	D2	Decorah, Iowa	Luther College
WASH	ak	500	a	Grand Rapids, Mich.	Kunsky-Trendle Broadcasting Co.
WFBR	ae	500	R	Baltimore, Md.	Baltimore Radio Show, Inc.
WJDX	ak	1000	N	Jackson, Miss.	Lamar Life Insurance Co.
WOOD	ak	500	a	Grand Rapids, Mich.	Kunsky-Trendle Broadcasting Corp.

1280 kilocycles 234.2 meters

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

1290 kilocycles 232.4 meters

CMHL	z	20	.....	Cienfuegos, Cuba	Oscar Zayas
KDYL	ak	1000	N	Salt Lake City, Utah	Intermountain Broadcasting Corp.
KFUL	ak	500	1	Galveston, Texas	News Publishing Co. (Buccaneer Hotel)
KLCN	z	100	D	Blytheville, Ark.	C. L. Lintzenich
KTSA	ak	1000	1C(2.5)	San Antonio, Texas	Southwest Broadcast Co. (Plaza Hotel)
WEBC	ae	1000	N(2.5)	Superior, Wis.	Head of the Lakes Broadcasting Co.
WJAS	ak	1000	C(2.5)	Pittsburgh, Pa.	Pittsburgh Radio Supply House
WNBZ	z	50	D	Saranac Lake, N. Y.	Smith & Mace
XEAC	z	100	1295	San Luis Potosi, Mex.	Francisco de P. Cabrera

1300 kilocycles 230.6 meters

CMKJ	z	20	.....	Guantanamo, Cuba	Luis Morlote
KALE	ak	500	3C	Portland, Ore.	KALE, Inc.
KFAC	aj	1000	.....	Los Angeles, Calif.	Los Angeles Broadcasting Co.
KFH	ae	1000	C 1	Wichita, Kans.	Wichita Eagle—Hotel Lassen
KFJR	ag	500	3	Portland, Ore.	Ashley C. Dixon—KFJR, Inc.
WBRR	ae	1000	1	Brooklyn, N. Y.	Peoples Pulpit Assn.
WEVD	ae	500	1	New York City	Debs Memorial Radio Fund, Inc.
WFAB	z	1000	1	New York City	Fifth Avenue Broadcasting Corp.
WHAZ	ae	500	1	Troy, N. Y.	Rensselaer Polytechnic Institute
WIOD	ae	1000	N	Miami, Fla.	Isle of Dreams Broadcasting Corp.
WQQ	ae	1000	1	Kansas City, Mo.	Unity School of Christiani'y

KYCS.
1300
MTRS.
230.6
DIAL

INDEX BY FREQUENCIES AND DIAL NUMBERS

1310 kilocycles 228.9 meters

KCRJ	ak	100	D	Jerome, Arizona	Chas. C. Robinson
KFBK	ak	100	C	Sacramento, Calif.	Jas. McClatchy Co.
KFCQ	ak	100	7	Boone, Iowa	Boone Biblical College
KFPL	ck	100	.....	Dublin, Texas	C. C. Baxter
KFPM	ae	15	.....	Greenville, Texas	New Furniture Co.
KFXR	ak	100	(.25)	Oklahoma City, Okla.	Exchange Ave. Baptist Church
KFYO	ak	100	(.25)Z	Lubbock, Texas	Kirksey Brothers
KGBX	ae	100	.....	Springfield, Mo.	KGBX, Inc.
KGCX	ak	100	(.25)	Wolf Point, Mont.	First State Bank of Vida
KGEZ	aj	100	.....	Kalispell, Mont.	Donald C. Treloar
KGFV	ah	100	.....	Kearney, Neb.	Central Nebraska Bdctg. Corp.
KIFH	z	100	.....	Juneau, Alaska	Juneau Broadcasting Co.
KIT	ak	100	.....	Yakima, Wash.	Valley Broadcasters, Inc.
KMED	ak	100	.....	Medford, Ore.	Mrs. W. J. Virgin
KRMD	ak	100	.....	Shreveport, La.	KRMD, Inc. (Jefferson Hotel)
KTSM	z	100	a	El Paso, Texas	Tri-State Broadcasting Co., Inc.
KXRO	ak	100	.....	Aberdeen, Wash.	KXRO, Inc. (Hotel Morck)
WAML	z	100	.....	Laurel, Miss.	Southland Radio Corp.
WBEO	z	100	.....	Marquette, Mich.	Lake Superior Broadcasting Co.
WBOW	ak	100	.....	Terre Haute, Ind.	Banks of Wabash, Inc.
WBRE	z	100	.....	Wilkes-Barre, Pa.	Louis G. Baltimore
WCLS	ae	100	b	Joliet, Ill.	WCLS, Inc.
WDAH	z	100	a	El Paso, Texas	Tri-State Broadcasting Co., Inc.
WDBR	ae	100	Q(.25)	Buffalo, N. Y.	Howell Broadcasting Station
WEXL	ak	50	.....	Royal Oak, Mich.	Royal Oak Broadcasting Co.
WFBG	ae	100	3	Altoona, Pa.	The Gable Broadcasting Co.
WFDF	ae	100	.....	Flint, Mich.	Frank D. Fallain (Union Ind. Bldg.)
WGAL	ae	100	5	Lancaster, Pa.	WGAL, Inc. (Lancaster Newsp. Bldg.)
WGH	ae	100	.....	Newport News, Va.	Hampton Roads Broadcasting Corp.
WHAT	ak	100	4	Philadelphia, Pa.	Independence Broadcasting Co.
WIAS	ak	100	7	Ottumwa, Iowa	Iowa Bdctg. Co. (Hotel Ottumwa)
WJAC	ae	100	3	Johnstown, Pa.	WJAC, Inc.
WKAV	ae	100	.....	Laconia, N. H.	Laconia Radio Club
WKBB	ae	100	bYZ	Joliet, Ill.	Richard W. Hoffman
WKBC	z	100	.....	Birmingham, Ala.	R. B. Broyles Furniture Co.
WLBC	ak	50	6	Muncie, Ind.	D. A. Burton—A. J. Marriott
WMBQ	ak	100	.....	Auburn, N. Y.	WMBQ, Inc. (Masonic Temple)
WNBH	ae	100	H(.25)	New Bedford, Mass.	New Bedford Bdctg. Co. (N. B. Hotel)
WOL	ae	100	.....	Washington, D. C.	American Broadcasting Co.
WRAW	ak	100	5X	Reading, Pa.	Reading Broadcasting Co.
WROL	ak	100	.....	Knoxville, Tenn.	Stuart Bdctg. Co. (Farragut Hotel)
WSAJ	ae	100	.....	Grove City, Pa.	Grove City College
WSJS	ae	100	C	Winston-Salem, N. C.	Winston-Salem Journal Co.
WTSL	ae	100	4	Philadelphia, Pa.	Foulrod Radio Eng. Co., Inc.
WTJS	ak	100	(.25)	Jackson, Tenn.	Sun Publishing Co. (Sun Bldg.)
WTRC	ak	50	6(.1)	Elkhart, Ind.	Elkhart Daily Truth
XEFB	ak	100	1315	Monterrey, N. L., Mex.	Quintanilla y Stevenson
XEI	ak	150	.....	Morelia, Mexico	Carlos Gutierrez M.

1320 kilocycles 227.1 meters

CMBF	z	150	1325	Havana, Cuba	Ramon Bardales
CMCY	ak	1000	1325	Havana, Cuba	M. D. Autran
KGHF	ak	250	(.5)	Pueblo, Colo.	C. P. Ritchie & Geo. J. Ikeman
KGMB	ak	250	C	Honolulu, Hawaii	Honolulu Broadcasting Co.
KID	ae	250	(.5)	Idaho Falls, Idaho	KID Broadcasting Co., Inc.
WADC	ae	1000	C	Akron, Ohio	Allan T. Simmons
WSMB	ae	500	N	New Orleans, La.	WSMB, Inc.

1330 kilocycles 225.4 meters

CMJI	ak	45	1335	Ciego de Avila, Cuba	Gilberto Gessa Lopez
KGB	ae	1000	CT	San Diego, Calif.	Don Lee Broadcasting System
KMO	ak	250	.....	Tacoma, Wash.	KMO, Inc. (Hotel Winthrop)
KSCJ	ah	1000	1C(.25)	Sioux City, Iowa	Perkins Bros. Co.
WDRC	ae	500	CH	Hartford, Conn.	WDRC, Inc.
WSAI	ae	500	R(1)	Cincinnati, Ohio	The Crosley Radio Corp.
WTAQ	ae	1000	1C	Eau Claire, Wis.	The Gillette Rubber Co.

1340 kilocycles 223.7 meters

KFPY	ae	1000	CT	Spokane, Wash.	Symons Bdctg. Co. (Symons Bldg.)
KGDY	ak	250	.....	Huron, S. D.	Voice of South Dakota, Inc.
WCOA	aj	500	.....	Pensacola, Fla.	Pensacola Bdctg. Co. (San Carlos Hot.)
WLEC	z	250	P(.5)	Portland, Me.	Casco Bay Broadcasting Co.
WSPD	ae	1000	C	Toledo, Ohio	Toledo Bdctg. Co. (Com. Perry Hotel)

INDEX BY FREQUENCIES AND DIAL NUMBERS

1350 kilocycles 222.1 meters

KIDO	ak	1000	.....	Boise, Idaho
KWK	ae	1000	B	St. Louis, Mo.
WAWZ	ae	250	1	Zarephath, N. J.
WBNX	ae	250	1a	New York City
WCDA	ae	250	1a	New York City
WEHC	ae	500	DY	Emory, Va.
WMSG	ae	250	1a	New York City

C. G. Phillips & Frank Hill
Thomas Patrick, Inc. (Hotel Chase)
Pillar of Fire
New York Met. Broadcasting Corp.
Italian Educ. Bdctg. Co., Inc.
Emory & Henry College
New York Met. Broadcasting Corp.

1360 kilocycles 220.4 meters

CMCR	z	150	1365	Havana, Cuba
CMJP	z	7.5	.....	Moron, Cuba
KGER	ah	1000	.....	Long Beach, Calif.
KGIR	ak	500	NJ	Butte, Mont.
WCSC	ae	500	.....	Charleston, S. C.
WFBL	ak	1000	C(2.5)	Syracuse, N. Y.
WGES	ae	500	1(1)	Chicago, Ill.
WJKS	agj	1000	1Z	Gary, Ind.
WQBC	ak	500	.....	Vicksburg, Miss.
XEFH	z	250	P	Mexico City, Mexico

Aurelio Hernandez
Cesar Canals
Consolidated Bdctg. Co. (R/C Los An.)
KGIR, Inc.
So. Carolina Broadcasting Co., Inc.
Onondaga Radio Broadcasting Corp.
Oak Leaves Broadcasting Station, Inc.
Johnson-Kennedy Radio Corp.
Delta Bdctg. Co. (Post-Herald Station)
Francisco Hornedo

1370 kilocycles 218.8 meters

CMGE	z	ak	30	1375	Cardenas, Cuba
KCRC	ak	100	2(.25)	Enid, Okla.	
KFBL	ak	50	3	Everett, Wash.	
KFJM	zj	100	.....	Grand Forks, N. Dak.
KFJZ	ae	100	.....	Fort Worth, Texas
KFLX	z	100	.....	Galveston, Texas
KGAR	ae	100	(.25)	Tucson, Arizona	
KGDA	ak	100	.....	Mitchell, S. Dak.
KGFG	bk	100	2	Oklahoma City, Okla.	
KGFL	ak	100	4	Santa Fe, N. Mex.	
KGKL	ak	100	.....	San Angelo, Texas
KICA	z	100	4	Clovis, N. Mex.	
KMAC	ak	100	5	San Antonio, Texas	
KONO	ak	100	5	San Antonio, Texas	
KOOS	ae	100	.....	Marshfield, Ore.
KRE	ak	100	.....	Berkeley, Calif.
KSO	z	100	B(.25)	Des Moines, Iowa	
KUJ	ak	100	D	Walla Walla, Wash.	
KVL	z	100	3	Seattle, Wash.	
KWKC	z	100	.....	Kansas City, Mo.
WBTM	ak	100	7	Danville, Va.	
WCBM	ae	100	Z(.25)	Baltimore, Md.	
WDAS	ae	100	(.25)	Philadelphia, Pa.	
WGCL	z	50	(.1)	Hudson Falls, N. Y.	
WGL	ae	100	C	Fort Wayne, Ind.	
WHBD	bk	100	.....	Mount Orab, Ohio
WHBQ	ak	100	.....	Memphis, Tenn.
WHDF	ak	100	(.25)	Calumet, Mich.	
WIBM	ae	100	1	Jackson, Mich.	
WJBK	ae	100	1Q	Detroit, Mich.	
WJEO	z	100	6P	Williamsport, Pa.	
WJTL	ae	100	.....	Atlanta, Ga.
WLEY	ae	100	(.25)	Lexington, Mass.	
WLVA	ck	100	7	Lynchburg, Va.	
WMBR	ak	100	.....	Tampa, Fla.
WPFB	ak	100	.....	Hattiesburg, Miss.
WQDM	ae	100	D	St. Albans, Vt.	
WRAK	ak	100	6	Williamsport, Pa.	
WRAM	ae	100	.....	Wilmington, N. C.
WRDO	ae	100	.....	Augusta, Maine
WRJN	ae	100	.....	Racine, Wis.
WSVS	ak	50	.....	Buffalo, N. Y.
XEFV	z	100	.....	Juarez, Mexico

Genaro Sebater
Enid Radiophone Co. (Oxford Hotel)
Leece Bros.
University of North Dakota
Fort Worth Broadcasters, Inc.
George Roy Clough
Tucson Motor Service Co.
Mitchell Broadcasting Corp.
Oklahoma Broadcasting Co., Inc.
KGFL, Inc.
KGKL, Inc. (St. Angelus Hotel)
Southwest Broadcasting Co.
Walmac Co., Inc. (Blue Bonnet Stud.)
Mission Broadcasting Co.
H. H. Hanseth, Inc. (Hall Bldg.)
First Cong. Church of Berkeley
Iowa Broadcasting Co.
KUJ, Inc. (Marcus Whitman Hotel)
KVL, Inc.
Wilson Duncanson Broadcasting Co.
Piedmont Broadcasting Corp.
Baltimore Broadcasting Corp.
WDAS Bdctg. Sta., Inc. (Elks Hotel)
O. T. Griffin & G. F. Bissell
F. C. Zieg
F. P. Moler
Station WHBQ, Inc. (Hotel Claridge)
Upper Michigan Broadcasting Co.
WIBM, Inc. (Otsego Hotel)
James F. Hopkins, Inc. (Curtiss Bldg.)
WRAK, Inc.
Oglethorpe University
Lexington Air Station
Lynchburg Broadcasting Corp.
F. J. Reynolds
Hattiesburg Broadcasting Co.
A. J. St. Antoine & E. J. Regan
WRAK, Inc.
Wilmington Radio Assn., Inc.
WRDO, Inc. (Augusta House)
Racine Bdctg. Corp. (Hotel Racine)
Seneca Vocational School
Jose Onofre Meza

KCYS.
1380
MTRS.
217.3
DIAL

1380 kilocycles 217.3 meters

CMJC	z	150	1382	Camaguey, Cuba
KOH	ak	500	C	Reno, Nevada
KQV	ak	500	2	Pittsburgh, Pa.
WKBH	aj	1000	1C	LaCrosse, Wis.
WSMK	ak	200	2	Dayton, Ohio
XETB	z	125	.....	Torreón, Coah., Mex.

Feliciano Isaac
McClatchy Newspapers
KQV Bdctg. Co. (Investment Bldg.)
WKBH, Inc. (Radio Bldg.)
Stanley M. Krohn, Jr.
Jose A. Berumen

INDEX BY FREQUENCIES AND DIAL NUMBERS

1390 kilocycles 215.7 meters

CMDB	z	40	1395	Havana, Cuba
KLRA	ae	1000	1C	Little Rock, Ark.
KOY	ae	500	C(1)	Phoenix, Arizona
KUOA	bk	1000	1	Fayetteville, Ark.
WHK	ae	1000	C(2.5)	Cleveland, Ohio

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Julio Powers
 Arkansas Broadcasting Co.
 Nielson Radio & Sporting Goods Co.
 Southwestern Hotel Co. (Ft. Smith)
 Radio Air Service Corp. (Higbee Store)

1400 kilocycles 214.2 meters

CMCH	ak	50	1405	Havana, Cuba
CMCM	z	15	1405	Havana, Cuba
KLO	ae	500	.....	Ogden, Utah
KOCW	z	250	(.5)	Chickasha, Okla.
WBAA	ak	500	1	Lafayette, Ind.
WBBC	ae	500	2	Brooklyn, N. Y.
WBCU	ak	500	2	Brooklyn, N. Y.
WFOX	ak	500	2	Brooklyn, N. Y.
WKBF	ak	500	1W	Indianapolis, Ind.
WLTH	ae	500	2	Brooklyn, N. Y.

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Wifredo & Hum. Fontanals Sanchez
 Aurelio Balino
 Interstate Bcg. Corp.
 J. T. Griffin
 Purdue University
 Brooklyn Broadcasting Corp.
 United States Broadcasting Corp.
 Paramount Broadcasting Co.
 Indianapolis Broadcasting, Inc.
 Voice of Brooklyn, Inc.

1410 kilocycles 212.6 meters

KFLV	ak	500	4	Rockford, Ill.
KGRS	ae	1000	1	Amarillo, Texas
WAB	ae	500	CH	Boston, Mass.
WBCM	ae	500	C	Bay City, Mich.
WDAG	ae	1000	1	Amarillo, Texas
WHBL	ae	500	4	Sheboygan, Wis.
WHIS	ak	250	2	Bluefield, W. Va.
WODX	ea	500	3CU	Mobile, Ala.
WRBX	ae	250	2	Roanoke, Va.
WSFA	ak	500	3C	Montgomery, Ala.

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

1420 kilocycles 211.1 meters

KABC	ak	100	.....	San Antonio, Texas
KBPS	aj	100	4	Portland, Ore.
KCMC	ak	100	.....	Texarkana, Ark.
KFIZ	ak	100	.....	Fond du Lac, Wis.
KGFF	ak	100	.....	Shawnee, Okla.
KGCG	ak	100	.....	San Francisco, Calif.
KGIW	ak	100	1	Trinidad, Colo.
KGIX	ak	100	.....	Las Vegas, Nevada
KGKX	z	100	.....	Lewiston, Idaho
KICK	z	100	Y	Red Oak, Iowa
KIDW	ak	100	1	Lamar, Colo.
KORE	ae	100	.....	Eugene, Ore.
KUMA	ak	100	.....	Yuma, Arizona
KWCR	ae	100	B(.25)	Cedar Rapids, Iowa
KXL	ae	100	4	Portland, Ore.
WAGM	af	100	.....	Presque Isle, Maine
WAMC	ae	100	.....	Anniston, Ala.
WAZL	z	100	2	Hazleton, Pa.
WEHS	ak	100	a	Cicero, Ill.
WELL	z	50	.....	Battle Creek, Mich.
WENC	ak	100	D	Americus, Ga.
WERE	ae	100	.....	Erie, Pa.
WHDL	ae	100	D	Tupper Lake, N. Y.
WHFC	ae	100	a	Cicero, Ill.
WILM	ae	100	2	Wilmington, Del.
WJBO	z	100	D	New Orleans, La.
WJMS	ak	100	.....	Ironwood, Mich.
WKBI	ak	100	a	Cicero, Ill.
WLB	ae	100	.....	Kansas City, Kans.
WMAS	ak	100	CH	Springfield, Mass.
WMB	ae	100	(.25)	Detroit, Mich.
WMBH	ak	100	(.25)	Joplin, Mo.
WPAD	ak	100	Paducah, Ky.
WSPA	ae	100	(.25)	Spartanburg, S. C.
WTBO	ae	100	(.25)	Cumberland, Md.

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Alamo Bctg. Co., Inc. (Texas Theatre)
 Student Body Benson Polytech. School
 Texarkana Gazette & Daily News
 Reporter Printing Co.
 KGFF Bdctg. Co. (Aldridge Hotel)
 Golden Gate Broadcasting Co.
 Leonard E. Wilson
 J. M. Heaton
 Sand Point Broadcasting Co.
 Red Oak Radio Corp.
 Lamar Broadcasting Co.
 Frank L. Hill & Curtis G. Phillips
 Dr. Albert H. Schermann
 Cedar Rapids Broadcast Co.
 KXL Broadcasters (Hotel Multnomah)
 Aroostook Broadcasting Corp.
 Raymond C. Hammett (Alabama Hot.
 Hazleton Brdctg. Service, Inc.
 WEHS, Inc.
 Enquirer-News Co.
 Americus Broadcast Co.
 Erie Broadcasting Corp.
 Tupper Lake Broadcasting Co., Inc.
 WHFC, Inc.
 Delaware Broadcasting Co.
 Baton Rouge Brdctg. Co., Inc.
 WJMS, Inc. (St. James Hotel)
 WKBI, Inc.
 WLB Bdctg. Co. (Aladdin Hotel)
 WMAS, Inc.
 Michigan Broadcasting Co.
 W. M. Robertson
 Paducah Bdctg. Co. (Ritz Hotel)
 The Voice of South Carolina
 Associated Brdctg. Corp.

1430 kilocycles 209.7 meters

KECA	ah	1000	N	Los Angeles, Calif.
KGNF	ak	500	D	North Platte, Neb.
WBAK	ak	500	I(1)	Harrisburg, Pa.

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Earle C. Anthony, Inc.
 Great Plains Broadcasting Co.
 Pennsylvania State Police

INDEX BY FREQUENCIES AND DIAL NUMBERS

WCAH	ae	500	1C	Columbus, Ohio
WFEA	ae	500	CH	Manchester, N. H.
WHEC	ae	500	C	Rochester, N. Y.
WHP	ak	500	1C(1)	Harrisburg, Pa.
WNBR	ae	500	.....	Memphis, Tenn.
WOKO	ae	500	C	Albany, N. Y.

Commercial Radio Service Co.
New Hampshire Broadcasting Co.
WHEC, Inc. (Roch. Sav. Bank Bldg.)
WHP, Inc. (Harrisburg Telegraph)
Memphis Bdtg. Co. (WGBC)
WOKO, Inc. (Hotel Ten Eyck)



1440 kilocycles 208.2 meters

CMBL	ak	20	1445	Havana, Cuba
KDFN	ak	500	.....	Casper, Wyo.
KLS	ae	250	D	Oakland, Calif.
KXYZ	ak	250	.....	Houston, Texas
WBIG	ae	500	C(1)	Greensboro, N. C.
WCBA	ah	250	a	Allentown, Pa.
WMBD	ae	500	3C(1)	Peoria, Ill.
WSAN	z	250	a	Allentown, Pa.
WTAD	ak	500	3	Quincy, Ill.

Julio C. Hidalgo
Donald L. Hathaway
Warner Bros.
Harris County Broadcast Co.
No. Carolina Broadcasting Co., Inc.
B. Bryan Musselman
Peoria Broadcasting Co.
Allentown Call Publishing Co., Inc.
Illinois Broadcasting Corp.



1450 kilocycles 206.8 meters

KTBS	ae	1000	N	Shreveport, La.
WGAR	ak	500	B(1)	Cleveland, Ohio
WHOM	ae	250	1	Jersey City, N. J.
WNJ	ak	250	1	Newark, N. J.
WSAR	ae	250	.....	Fall River, Mass.
WTFI	ak	500	.....	Athens, Ga.
XEAB	z	7.5	.....	N. Laredo, Mex.

Tri-State Bdtg. System, Inc.
WGAR Broadcasting Co., Inc.
New Jersey Broadcasting Corp.
Radio Investment Co., Inc.
Doughty & Welch Electric Co., Inc.
Liberty Broadcasting Co.
Humberto Garcia R.



1460 kilocycles 205.4 meters

KSTP	ae	25000	N	St. Paul, Minn.
WJSV	ck	10000	C	Washington, D. C.

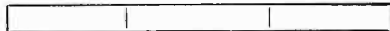
National Battery Broadcasting Co.
Old Dominion Broadcasting Co.
(Transmitter at Alexandria, Va.)



1470 kilocycles 204.0 meters

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

Northwest Broadcasting System
Life & Casualty Insurance Co.



1480 kilocycles 202.6 meters

CMBK	z	15	1485	Havana, Cuba
CMBR	z	40	1485	Havana, Cuba
KOMA	ak	5000	C	Oklahoma City, Okla.
WKBW	ae	5000	C	Buffalo, N. Y.

Alberto Alvarez
Tomas Basail
National Radio Mfg. Co.
Buffalo Broadcasting Corp.



1490 kilocycles 201.2 meters

WKCY	ae	5000	N	Covington, Ky.
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L. B. Wilson, Inc. (Mabley & Carew)



1500 kilocycles 199.9 meters

KDB	ak	100	CT	Santa Barbara, Calif.
KGFI	aj	100	(.25)	Corpus Christi, Texas
KGFK	ak	100	.....	Moorhead, Minn.
KGIZ	ak	100	.....	Grant City, Mo.
KGKB	bk	100	.....	Tyler, Texas
KGKY	ck	100	.....	Scottsbluff, Neb.
KKNOW	ak	100	.....	Austin, Texas
KPJM	ak	100	.....	Brescott, Arizona
KFO	aj	100	.....	Wenatchee, Wash.
KREG	ak	100	.....	Santa Ana, Calif.
KXO	az	100	.....	El Centro, Calif.
WRDV	ak	100	.....	Rome, Ga.
WHEF	ak	100	(.25)	Kosciusko, Miss.
WKBV	ak	100	.....	Connersville, Ind.
WKBZ	z	100	.....	Ludington, Mich.
WKU	z	100	P	LaGrange, Ga.
WLQE	z	100	(.25)	Boston, Mass.
WMBQ	ae	100	1	Brooklyn, N. Y.
WMIL	ak	100	1	Brooklyn, N. Y.
WMPC	ak	100	.....	Lapeer, Mich.
WNBF	ae	100	.....	Binghamton, N. Y.
WOP	ae	100	.....	Bristol, Tenn.
WPEN	ce	100	(.25)	Philadelphia, Pa.
WRDW	ae	100	.....	Augusta, Ga.
WSYB	ae	100	.....	Rutland, Vt.
WWRL	ak	100	1	Woodside, N. Y.
WWSW	ae	100	X(.25)	Pittsburgh, Pa.
XEFZ	ae	100	.....	Coyoacan, Mexico

Santa Barbara Broadcasters, Ltd.
Eagle Broadcasting Co., Inc.
Red River Broadcasting Co., Inc.
Grant City Park Corp.
East Texas Broadcasting Co.
Hilliard Co., Inc.
KUT Bdtg. Co. (Driskill Hotel)
Scott & Sturm
Westcoast Broadcasting Co.
Voice of Orange Empire, Inc.
E. R. Irey and F. M. Bowles
Rome Broadcasting Corp.
Attala Milling & Produce Co.
William O. Knox
K. L. Ashbacher
Marshall & Malcolm
Boston Broadcasting Co.
Paul J. Gollhofer
Arthur Faske
First Methodist Protestant Church
Howitt-Wood Radio Co., Inc.
Radiophone Bdtg. Station WOPI
Wm. Penn Broadcasting Co.
Musico, Inc. (Relays WLW)
Philip Weiss Music Co.
Long Island Broadcasting Corp.
Walker & Downing Radio Corp.
Manuel Zetina

KCY5
1500
MTRS
199.9
DIAL

INDEX BY LOCATIONS WITH MAP KEY

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

ALABAMA			Watts	Keys.	ALASKA			Watts	Keys.		
Anniston O-21 tr	100	WAMC	1420	Anchorage			250	KFQD	1230		
Birmingham O-21	500	WAPI	N 1140				Juneau			100	KIFH	1310
	500	WBRC	C 930	Ketchikan			500	KGBU	900		
	100	WKBC	1310	ARIZONA							
Gadsden O-21	100	WJBY	1210				Jerome M-6			100	KCRJ	1310
Huntsville N-21 c	100	WBHS	1200	Phoenix N-6			500	KOY	C 1390		
Mobile Q-20	500	WODX	C 1410	Prescott M-6			100	KPJM	1500		
Montgomery P-21	500	WSFA	C 1410	Tucson O-7			100	KGAR	1370		
Troy P-21 rc	100	WHET	1210	Yuma O-5 tl			100	KUMA	1420		
Blytheville M-19			100	KLCN	1290	DISTRICT OF COLUMBIA					
			1000	KUOA	1390				Washington J-26			10000	WJSV	C 1460
Fayetteville M-16			100	KFPW	1210	250			WMAL	B 630	
Fort Smith N-16			1000	KTHS	N 1040	500			WRC	N 950	
Hot Springs N-17			250	KARK	890	100			WOL	1310	
Little Rock N-17			100	KGHI	1200	FLORIDA					
Paragould M-18			1000	KLRA	C 1390				Clearwater R-24			1000	WFLA	N 620
Texarkana O-17 bl			100	KBTM	1200	Gainesville Q-24			5000	WRUF	C 830
CALIFORNIA			100	KCMC	1420	Jacksonville Q-24			1000	WJAX	N 900
			Bakersfield L-2 br			100	KERN	C 1200	Miami T-25			1000	WIOD	N 1300
Berkeley J-2			100	KRE	1370	Orlando R-24			1000	WQAM	C 560
Beverly Hills M-3 bl			500	KMPC	710	Pensacola Q-21			250	WBDO	C 580
Burbank M-3			500	KELW	780	St. Petersburg S-24			500	WCOA	1340
El Centro N-4			100	KXO	1500	Tampa R-24			1000	WSUN	N 620
Eureka H-1 tc			100	KIEM	1210				1000	WDAE	C 1220
Fresno K-2			500	KMJJ	C 580				100	WMBR	1370
Glendale M-3			100	KIEV	850	GEORGIA					
Hollywood M-3			500	KMTR	570				Americus P-22 c			100	WENC	1420
Long Beach M-3			25000	KNX	1050	Athens N-23 bc			500	WTFI	1450
			1000	KFOX	C 1250	Atlanta O-22			250	WGST	C 890
Los Angeles M-3			1000	KGER	1360				100	WJTL	1370
			1000	KECA	N 1430	Augusta O-23			5000	WSB	N 740
			1000	KFAC	1300	Columbus O-22			100	WRDW	1500
			50000	KFI	N 640	LaGrange O-22 1			100	WRBL	1200
			500	KFSG	1120	Macon O-23			100	WKBU	1500
			250	KFVD	1000	Rome N-22			500	WMAZ	180
			1000	KFWB	950	Savannah O-24			100	WFDV	C 1500
			100	KGfJ	1200	Thomasville Q-22			500	WTQC	C 1260
			1000	KHJ	C 900				100	WQDX	1210
			500	KRKD	1120	HAWAII					
			500	KTM	780				Honolulu			250	KGMB	C 1320
Oakland J-1			250	KLS	1440				1000	KGU	N 750
			500	KLX	880	IDAHO					
			500	KROW	930				Boise G-5			1000	KIDO	1350
Pasadena M-3			50	KPPC	1210	Idaho Falls G-7			250	KID	1320
Sacramento J-2			100	KFBK	C 1310	Nampa G-5			100	KFXD	1200
San Bernardino M-3			100	KFXM	1210	Pocatello H-7			250	KSEI	890
San Diego N-3			1000	KFSD	N 600	Lewiston E-5 rc			100	KGKX	1420
			1000	KGB	C 1330	Twin Falls H-6			500	KTFI	1240
San Francisco J-1			1000	KFRC	C 610						
			500	KFWI	930						
			100	KGCC	1420						
			7500	KGO	N 790						
			100	KJBS	1070						
			5000	KPO	N 680						
			1000	KTAB	560						
			1000	KYA	N 1230						

INDEX BY LOCATIONS WITH MAP KEY

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

ILLINOIS

	Watts		Kcys.
Carthage J-18	50	WCAZ	1070
Chicago I-20	10000	KFKX	1020
	10000	KYFW	N 1020
	500	WAAF	920
	25000	WBBM	C 770
	1500	WCFL	R 970
	100	WCRW	1210
	100	WEDC	1210
	50000	WENR	N 870
	500	WGES	1360
	25000	WGN	C 720
	1000	WIBO	560
	20000	WJJD	1130
	50000	WLS	870
	5000	WMAQ	N 670
	5000	WMBI	1080
	500	WPCC	560
	100	WSBC	1210
	100	WEHS	1420
	100	WHFC	1420
	100	WKBI	1420
	100	WJBL	1200
	100	WEBQ	1210
	100	WCLS	1310
	100	WKBB	1310
	100	WJBC	1200
	500	WMBD	C 1440
	500	WTAD	1440
	500	KFLY	1410
	100	WHBF	1210
	100	WCBS	1210
	100	WTAX	1210
	100	WZ	1070
	250	WILL	890
	5000	WCBD	1080

Cicero I-20

Decatur K-19
Harrisburg L-19
Joliet I-19

La Salle J-19
Peoria J-19
Quincy K-18
Rockford I-19
Rock Island I-18
Springfield K-19

Tuscola K-20
Urbana J-20
Zion I-20

INDIANA

Anderson J-21	100	WHBU	1210
Connersville K-21	100	WKBV	1500
Elkhart I-21 bc	50	WTRC	1310
Evansville L-20	500	WGBF	630
Fort Wayne J-21	100	WGL	C 1370
	10000	WOWO	C 1160
Gary I-20	1000	WJKS	1360
Hammond I-20 bc	100	WAB	1200
Indianapolis J-21	1000	WFBM	C 1230
	500	WKBF	1400
Lafayette J-20	500	WBAA	1400
Muncie J-21	50	WLBC	1310
South Bend I-20	100	WFAM	1200
	500	WSBT	C 1230
Terre Haute K-20	100	WBOW	1310

IOWA

Ames I-17	5000	WOI	640
Boone I-17	100	KFGQ	1310
Cedar Rapids I-18	100	KWCR	B 1420
Council Bluffs J-16	1000	KOIL	B 1260
Davenport I-18	5000	WOC	R 1000
Decorah H-18	100	KGGA	1270
	100	KWLC	1270
Des Moines I-17	100	KSO	B 1370
	5000	WHO	R 1000
Iowa City I-18	500	WSUI	880
Marshalltown I-17	100	KFJB	1200
Ottumwa J-17	100	WTAS	1310
Red Oak J-16	100	KICK	1420
Shenandoah J-16	500	KFNF	890
	500	KMA	930
Sioux City I-15	1000	KSCJ	C 1330
Waterloo I-17	500	WMT	C 600

KANSAS

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

KENTUCKY

Covington K-22	5000	WCKY	N 1490
Hopkinsville M-20	1000	WFIW	C 940
Louisville L-21	25000	WHAS	C 820
	100	WLAP	1200
Paducah M-19	100	WPAD	1420

LOUISIANA

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

MAINE

Augusta F-28	100	WRDO	1370
Bangor F-29	100	WABI	1200
	500	WLBZ	C 620
Portland F-28	1000	WCSH	R 940
	250	WLEC	1340
Presque Isle D-29 lc	100	WAGM	1420

MARYLAND

Baltimore J-26	10000	WBAL	B 1060
	250	WCAO	C 600
	100	WCBM	1370
	500	WFBR	R 1270
Cumberland J-25	100	WTBO	1420
Hagerstown J-25 rc	100	WJEJ	1210

MASSACHUSETTS

Babson Park G-28	500	WBSO	920
Boston G-28	500	WAAB	C 1410
	25000	WZB	B 990
	1000	WEEI	R 590
	1000	WHDH	830
	100	WLOE	1500
	1000	WNAC	C 1230
Fall River H-28	250	WSAR	1450
Lexington G-28	100	WLEY	1370
New Bedford H-28	100	WNBH	1310
Springfield H-27	1000	WBZA	B 990
	100	WMAS	1420
Worcester G-28	100	WORC	C 1200
	250	WTAG	R 580

MICHIGAN

Battle Creek I-21	50	WELL	1420
Bay City H-22	500	WBCM	C 1410
Calumet E-19	100	WHDF	1370
Detroit H-22	100	WJBK	1370
	10000	WJR	B 750
	100	WMBC	1420
	1000	WVJ	R 920
	1000	WXYZ	1240
East Lansing H-21	1000	WKAR	1040

INDEX BY LOCATIONS WITH MAP KEY

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

	Watts		Kcys.			Watts		Kcys.
MINNESOTA				NEVADA				
Flint H-22	100	WFDF	1310	Las Vegas L-5	100	KGIX		1420
Grand Rapids H-21	500	WASH	1270	Reno I-3	500	KOH	C	1380
	500	WOOD	1270	NEW HAMPSHIRE				
Ironwood F-18 rc	100	WJMS	1420	Laconia G-28 1c	100	WKAV		1310
Jackson I-21	100	WIBM	1370	Manchester G-28	500	WFEA	C	1430
Kalamazoo I-21 tl	1000	WKZO	590	Portsmouth G-28 tc	250	WHEB		740
Lapeer H-22	100	WMPC	1500	NEW JERSEY				
Ludington H-20	100	WFBZ	1500	Asbury Park I-27	500	WCAP	C	1280
Marquette F-19	100	WBEO	1310	Atlantic City J-27	5000	WPG	C	1100
Royal Oak H-22	50	WEXL	1310	Camden I-26	500	WCAM		1280
				Jersey City I-27	300	WAAT		940
					250	WHOM		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
				Clovis O-11 tr	100	KICA		1370
				Santa Fe M-10	100	KGFL		1370
				NEW YORK				
				Albany G-27 bl	500	WOKO	C	1430
				Auburn H-25	100	WMBO		1310
				Binghamton H-26	100	WNBF		1500
				Brooklyn I-27	500	WBBC		1400
					1000	WBBR		1300
					500	WCGU		1400
					500	WFOX		1400
					500	WLTH		1400
					100	WMBQ		1500
					100	WMIL		1500
				Buffalo H-24	1000	WBEN	R	900
					100	WEBR		1310
					1000	WGR	C	550
					5000	WKBW	C	1480
					50	WSVS		1370
				Canton F-26	500	WCAD		1220
				Chester Twp.	50	WGNV		1210
				Elmira H-25 c	1000	WESG		1040
				Freeport I-27	100	WGBB		1200
				Hudson Falls G-27	50	WGLC		1370
				Jamestown H-24	50	WOCL		1210
				New York City I-27	50000	WABC	C	860
					250	WBNX		1350
					50000	WBOQ		860
					250	WCDA		1350
					50000	WEAF	R	660
					500	WEVD		1300
					1000	WFAB		1300
					500	WINS		1180
					250	WHN		1010
					50000	WJZ	B	760
					5000	WLWL		1100
					500	WMCA		570
					250	WMSG		1350
					500	WNYC		570
					1000	WOV		1130
					250	WPAP		1010
					500	WPCH		810
					250	WQAO		1010
					250	WRNY		1010
				Rochester G-25	5000	WHAM	B	1150
					500	WHEC	C	1430

INDEX BY LOCATIONS WITH MAP KEY

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

	Watts		Kcys.
Saranac Lake F-26	50	WMBZ	1290
Schenectady G-27	50000	WGY R	790
Syracuse G-25	1000	WFBL C	1360
	250	WMAC	570
	250	WSYR B	570
Troy G-27	500	WHAZ	1300
Tupper Lake F-26	100	WHDL	1420
Utica G-26	100	WIBX	1200
Woodside I-27	100	WRRL	1500
White Plains H-27 bl	100	WFAS	1210

NORTH CAROLINA

Asheville M-23	1000	WWNC N	570
Charlotte M-24	25000	WBT C	1080
Gastonia M-24	100	WSOC C	1210
Greensboro M-24	500	WBIG C	1440
Raleigh M-25	1000	WPTF N	680
Wilmington N-26	100	WRAM C	1370
Winston-Salem M-24	100	WSJS C	1310

NORTH DAKOTA

Bismarck F-13	1000	KFYR N	550
Devils Lake E-14	100	KDLR	1210
Fargo F-15	1000	WDAY N	940
Grand Forks E-15	100	KFJM	1370
Mandan F-13	250	KGCU	1240
Minot E-13	250	KLPM	1240

OHIO

Akron I-23	1000	WADC C	1320
	100	WJW	1210
Canton I-23	10	WHBC	1200
Cincinnati K-22	100	WFBE	1200
	1000	WKRC C	550
	50000	WLW N	700
	500	WSAI R	1330
Cleveland I-23	500	WGAR B	1450
	1000	WEK C	1390
	500	WJAY	610
Columbus J-22	50000	WTAM R	1070
	500	WAIU	640
	500	WCAH C	1430
	1000	WEAO	570
	100	WSEN	1210
Dayton J-22	200	WSMK	1380
Mount Orab K-22	100	WHBD	1370
Toledo I-22	1000	WSPD C	1340
Youngstown I-23	500	WKBN C	570
Zanesville J-23	100	WALR	1210

OKLAHOMA

Chickasha N-14	250	KOCW	1400
Elk City N-13	100	KASA	1210
Enid M-14	100	KCRC	1370
Norman N-15	500	WNAD	1010
Oklahoma N-15	100	KFXR	1310
	100	KGFG	1370
	5000	KOMA C	1480
	1000	WKY N	980
Ponca City M-15	100	WBBZ	1200
Shawnee N-15	100	KGFF	1420
Tulsa M-15	5000	KVOO N	1140

OREGON

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

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

PENNSYLVANIA

Allentown I-26	250	WCBA	1440
	250	WSAN	1440
Altoona I-25	100	WFBG	1310
Carbondale H-26	10	WNBW	1200
Erie H-24	100	WERE	1420
	500	WLBW C	1260
Glenside I-26 rc	25	WIBG	930
Grove City I-24	100	WSAJ	1310
Harrisburg I-25	500	WBAK	1430
	100	WCOD	1200
	500	WHP C	1430
Hazleton I-26 lc	100	WAZL	1420
Johnstown J-24	100	WJAC	1310
Lancaster I-26	100	WGAL	1310
	100	WKJC	1200
Lewisburg I-26	100	WJBU	1210
Philadelphia I-26	50000	WCAU C	1170
	100	WDAU	1370
	500	WFI R	560
	100	WHAT	1310
	500	WIP C	610
	500	WLIT R	560
	100	WPEN	1500
	250	WRAX	1020
	100	WTEL	1310
Pittsburgh J-24	50000	KDKA B	980
	500	KOV	1380
	1000	WCAE R	1220
	1000	WJAS C	1290
	100	WWSW	1500
Reading I-26	1000	WEUW	830
	100	WRAW	1310
Scranton H-26	250	WGBI	880
	250	WQAN	880
Washington J-24	100	WNBO	1200
Wilkes-Barre I-26	100	WBAX	1210
	100	WBRE	1310
Williamsport I-25	100	WRAK	1370
	100	WJEO	1370
York J-25 tr	1000	WORK	1000

PHILIPPINES

Cebu	500	KZRC	937.5
Manila	1000	KZKA	1110
	50000	KZRM	618.5

PORTO RICO

San Juan W-34	1000	WKAQ	1240
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RHODE ISLAND

Providence H-28	500	WEAN C	780
	500	WJAR R	890
	100	WPAW	1210
	100	WPRO	1210

SOUTH CAROLINA

Charleston O-25	500	WCSC	1360
Columbia N-24	500	WIS N	1010
Greenville N-23 tc	100	WFBC	1200
Spartanburg N-23	100	WSPA	1420

INDEX BY LOCATIONS WITH MAP KEY

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

SOUTH DAKOTA				VIRGINIA			
	Watts		Keys.		Watts		Keys.
Brookings H-15	1000	KFDY	550	Arlington J-25	1000	NAA	690
Huron H-14	250	KGDY	1340	Danville L-25	100	WBTM	1370
Mitchell H-14	100	KGDA	1370	Emory L-23	500	WEHC	1350
Pierre G-13	200	KGFX	630	Lynchburg L-25	100	WLVA	1370
Rapid City H-12	100	WCAT	1200	Newport News L-26	100	WGH	1310
Sioux Falls H-15	1000	KSOO	1110	Norfolk L-26	500	WTAR	C 780
Vermillion I-15	500	KUSD	890	Petersburg L-26	100	WPHR	1200
Watertown G-15	100	KGCR	1210	Portsmouth L-26 tc	500	WPOR	780
Yankton I-15	1000	WNAX	C 570	Richmond K-26	100	WBBL	1210
					100	WMBG	C 1210
					5000	WRVA	N 1110
				Roanoke L-24	250	WDBJ	C 930
					250	WRBX	1410
TENNESSEE				WASHINGTON			
Bristol L-23	100	WOPI	1500	Aberdeen D-2	100	KXRO	1310
Chattanooga N-21	1000	WDOD	C 1280	Bellingham C-3	100	KVOS	1200
Jackson M-19 br	100	WTJS	1310	Everett C-3	50	KFBL	1370
Knoxville M-22	1000	WNOX	C 560	Olympia D-3 tl	100	KGY	1210
	100	WROL	1310	Pullman E-5	1000	KWSC	1220
Memphis N-19	100	WHBQ	1370	Seattle C-3	5000	KJR	C 970
	500	WMC	N 780		1000	KOL	N 1270
	500	WNBR	1430		1000	KOMO	N 920
	500	WREC	C 600		100	KPCB	650
Nashville M-21	5000	WLAC	C 1470		100	KRSC	1120
	50000	WSM	N 650		1000	KTW	1220
Springfield M-20	100	WSIX	1210		100	KVL	1370
					250	KXA	760
TEXAS				Spokane D-5	100	KFTO	1120
Amarillo N-12	1000	KGRS	1410		1000	KFPY	C 1340
	1000	WDAG	1410		5000	KGA	B 1470
Austin Q-14	100	KNOW	1500		1000	KHQ	N 590
Beaumont R-17	500	KFDM	560	Tacoma D-3	250	KMO	1330
Brownsville U-15	500	KWWG	1260		500	KVI	C 570
College Sta. Q-15	500	WTAW	1120	Walla Walla E-5	100	KUJ	1370
Corpus Christi S-14	100	KGFI	1500	Wenatchee D-4	100	KPQ	1500
Dallas P-15	10000	KRLD	1040	Yakima D-4	100	KIT	1310
	50000	WFAA	C N 800				
	500	WRR	C 1280				
Dublin P-14	100	KFPL	1310	WEST VIRGINIA			
El Paso P-9	100	KTSM	1310	Bluefield L-24	250	WHIS	1410
	100	WDAH	1310	Charleston K-23	250	WOBW	580
Fort Worth P-15	100	KFJZ	1370	Fairmont J-24	250	WMMN	890
	1000	KTAT	1240	Huntington K-23	250	WSAZ	580
	50000	WBAP	N 800	Wheeling J-24	5000	WWVA	C 1160
Galveston R-16	100	KFLX	1370	WISCONSIN			
	500	KFUL	1290	Eau Claire G-18	1000	WTAQ	C 1330
	15	KFPM	1310	Fond du Lac H-19	100	KFIZ	1420
Greenville O-15	500	KRGV	1260	Green Bay G-19	100	WHBY	1200
Harlingen T-14	1000	KPRC	N 920	Janesville I-19	100	WCLO	1200
Houston R-16	500	KTRH	C 1120	La Crosse H-18	1000	WKBH	C 1380
	250	KXYZ	1440	Madison H-19	1000	WHA	940
	100	KFYO	1310		500	WIBA	N 1280
Lubbock O-12 tr	100	KGKL	1370	Manitowoc H-20	100	WOMT	1210
San Angelo Q-13	100	KABC	1420	Milwaukee H-19	250	WHAD	C 1120
San Antonio R-14	100	KMAC	1370		250	WISN	C 1120
	100	KONO	1370		1000	WTMJ	N 620
	1000	KTSA	C 1290	Poynette H-19	100	WIBU	1210
	50000	WOAI	N 1190	Racine I-20	100	WRJN	1370
Tyler P-16 rc	100	KGKB	1500	Sheboygan H-20	500	WHBL	1410
Waco Q-15	1000	WACO	C 1240	Stevens Point G-19	2000	WLBL	900
Wichita Falls O-14	250	KGKO	570	Superior F-17	1000	WEBC	N 1290
UTAH				WYOMING			
Ogden I-7	500	KLO	1400	Casper H-10	500	KDFN	1440
Salt Lake City I-7	1000	KDYL	N 1290				
	50000	KSL	C 1130	CANADA			
VERMONT				ALBERTA			
Burlington F-27	100	WCAX	1200	Calgary B-7	500	CFAC	690
Rutland G-27	100	WSYB	1500		10000	CFCN	985
St. Albans F-27	100	WQDM	1370		500	CJCJ	690
Springfield G-27	250	WNBX	1260				
Waterbury F-27 c	500	WDEV	550				

INDEX BY LOCATIONS WITH MAP KEY

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

	Watts		Kcys.		Watts		Kcys.
Edmonton A-8	250	CHMA	580	Quebec D-27	100	CHRC	645
	500	CJCA	745		100	CKCI	645
	500	CKUA	580		100	CKCV	880
Lethbridge C-8	100	CJOC	1120	SASKATCHEWAN			
Red Deer A-8	1000	CKLC	840	Canora B-13 tl	15	10-BU	1200
BRITISH COLUMBIA				Fleming C-13	1000	CJRW	665
Chilliwack B-3	100	CHWK	665	Moose Jaw C-11	500	CJRM	665
Kamloops B-5	100	CJFC	1120		25	10-AB	1200
Kelowna C-6 tl	100	CKOV	1200	Prince Albert A-11 rc	25	10-BI	1200
Trail C-6 c	25	10-AT	1155	Regina C-12	500	CHWC	960
Vancouver B-3	100	CHLS	730	Saskatoon B-11	500	CKCK	960
	500	CJOR	1210	Yorkton B-13	500	CFQC	910
	100	CKCD	730		500	CJGX	630
	50	CKFC	730	NEWFOUNDLAND			
	100	CKMO	730	St. Johns A-35	200	VOAS	810
	100	CKWX	730		500	VOGY	860
	500	CNRV	1030		100	VONA	950
	500	CFCT	630		500	VONF	1195
Victoria C-3	500				750	VOWR	750
				Wabana A-35	400	VOGT	893
MANITOBA				CENTRAL AMERICA			
Brandon D-14	500	CKX	930	COSTA RICA			
Winnipeg D-15	5000	CKY	780	San Jose FF-23	50	TICR	911
NEW BRUNSWICK				SALVADOR			
Fredericton D-29	100	CFNB	1210	Salvador CC-19 br	500	RUS	664
Moncton D-30	700	CNRA	630	MEXICO			
St. John D-30	500	CFBO	890	AGUASCALIENTES			
NOVA SCOTIA				BAJA CALIFORNIA			
Glace Bay C-32	2000	VAS	685	Mexicali O-4 tc	7.5	XEAO	560
Halifax E-31	500	CHNS	815	Tijuana N-3 bc	300	XEFD	1020
	500	CNRH	815	CHIHUAHUA			
Sydney C-32	100	CJCB	880	Chihuahua R-9	100	XEFI	1000
Woolville D-31	50	CKIC	1010		250	XFF	915
ONTARIO				Juarez P-9	5000	XEAN	750
Brantford H-23 tr	15	10-BQ	1200		100	XEFV	1370
Chatham H-22	250	CFCO	1010		500	XEJ	1015
Cobalt E-23	100	CKMC	1210	COAHUILA			
Ft. William E-19 bl	100	CKPR	890	Piedras Negras S-12 tr	10000	XEPN	585
Hamilton H-24	50	CHML	880	Saltillo, Coah. U-12	10	XEL	1000
	1000	CKOC	635	Torreón U-11 tl	125	XETB	1380
Kingston G-25	50	CFRC	930	Villa Acuna R-12 c	75000	XER-XEF	735
London H-23	5000	CJGC	595	D. F.			
North Bay F-23 c	100	CFCH	930	Coyoacan Y-13	100	XEFZ	1500
Ottawa F-25	100	CKCO	890	Mexico City Y-13	250	XEAD	875
	500	CNRO	600		100	XEAI	1090
Prescott F-25	100	CFLC	915		10000	XEB	1030
Preston H-23	100	CKPC	880		500	XEFA	1250
St. Catharines H-24 tl	1000	CKTB	635		250	XEFH	1360
Stratford H-23 tc	15	10-AK	1200		500	XEG	1075
Toronto G-24	500	CFCA	1120		100	XEK	990
	10000	CFRB	690		1000	XEN	711
	5000	CHNC	840		5000	XEFO	940
	500	CKCL	580		1000	XEP	780
	5000	CKGW	840		250	XETA	1140
	500	CKNC	960		1000	XETR	610
	5000	CPRY	840		500	XETW	830
	100	CKGR	645		5000	XEW	910
Waterloo G-23	5000	CKOK	540		500	XEX	1210
Windsor I-22 tc	5000	10-BP	1199		2000	XFG	638
Wingham G-23	25				1000	XFI	818
PRINCE EDWARD ISLAND					5000	XFO	940
Charlottetown C-31	500	CFCY	580		500	XFX	860
	100	CHCK	960		50	XEC	1000
Summerside C-31	100	CHGS	1120				
QUEBEC							
Montreal E-26	500	CFCF	N 1030				
	100	CHCH	1200				
	100	CHLP	1200				
	5000	CHYC	730				
	5000	CKAC	C 730				

INDEX BY LOCATIONS WITH MAP KEY

	Watts		Kcys.		Watts		Kcys.
HIDALGO							
Pachuca Y-13 rc	100	XETU	890	Colon W-24	100	CMGA	834
JALISCO				Cruces	15	CMHK	1225
Guadalajara, Ja. X-10	100	XEA	1000	Guantanamo X-28 tc	20	CMKJ	1300
	500	XED	1155	Havana W-23	500	CMAF	660
MICHOACAN					150	CMAY	965
Morelia, Mich. Y-12	125	XEI	1310		150	CMBC	1270
NEUVO LEON					150	CMBD	965
Monterrey, N. L. U-13	100	XEFB	1315		150	CMBF	1325
	100	XEFJ	1000		225	CMBG	1070
	250	XEH	1132		150	CMBJ	1140
	500	XET	690		15	CMBK	1485
PUEBLA					20	CMBL	1445
Puebla Z-13	100	XETH	840		150	CMBN	1185
QUERETARO					40	CMBR	1485
Queretaro X-12 br	40	XEFS	1000		150	CMBT	780
SAN LUIS POTOSI					150	CMBW	925
San Luis Potosi W-12 bc	100	XEAC	1295		250	CMBY	1230
TAMAULIPAS					150	CMBZ	1010
Matamoros U-14 tr	500000	XEM	660		500	CMC	840
	150000	XETM	845		150	CMCA	1230
N. Laredo S-13	7.5	XEAB	1450		150	CMCB	1070
	100	XEFE	1000		250	CMCD	1140
	150000	XENT	1115		250	CMCF	890
Reynosa, Tams. T-14	10000	XEAW	965		50	CMCH	1405
Tampico, Tams. W-14	70	XEFW	1240		250	CMCJ	1185
	250	XES	1055		15	CMCM	1405
VERA CRUZ					250	CMCN	925
Jalapa Y-14	100	XETC	1000		1000	CMCQ	780
	500	XFB	840		150	CMCR	1365
Vera Cruz, Ver. Z-14	500	XETF	630		150	CMCU	630
	100	XEU	1010		150	CMCW	965
YUCATAN					150	CMCX	1010
Merida, Yuc. X-19	10	XEFC	1020		1000	CMCY	1325
	105	XEY	546.8		40	CMDB	1395
WEST INDIES					150	CMDD	588
CUBA					250	CMDE	925
Caibarien W-25	250	CMHD	950		3150	CMK	730
Camaguey W-26	150	CMJC	1382		250	CMQ	630
	50	CMJE	1175		1400	CMW	590
	200	CMJF	930		500	CMX	890
	50	CMJG	1050	Matanzas W-24	30	CMGB	1265
	300	CMJK	790		30	CMGC	820
	50	CMJL	960		100	CMGF	987
	50	CMJM	1240		15	CMGH	1040
Cardenas W-24	30	CMGE	1375	Moron	7.5	CMJP	1360
Ciego de Avila W-26	30	CMJH	1150	Pinar del Rio W-22	20	CMAB	1249
	45	CMJI	1335	Santa Clara W-25	30	CMHI	1030
	50	CMJO	1110	Santiago X-28	150	CMKC	1034
Cienfuegos W-25	40	CMHJ	1125	Tuinucu W-25 rc	250	CMHC	790
	20	CMHL	1290	DOMINICAN REPUBLIC			
				Santo Domingo X-31	1000	HIX	579
				HAITI			
				Port au Prince X-30	1000	HHK	920
				SOUTH AMERICA			
				Bogota, Colombia GG-30 c	2000	HJN	685
				Caracas Venez. DD-31	5000	YV1BC	960

Map Key: For locating cities not shown on the RADEX Map of North America, use the small letters following the square in which that city is located thus: tl top left, tc top center, tr top right, bl bottom left, bc bottom center, br bottom right, l left, c center, r right.

TIME CONVERSION TABLE

	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
Atlantic												
Eastern	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
Central	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
Mountain	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
Pacific	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00

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CFAC 690	Calgary, Alta., <i>MST.</i>	CMCA 1230	Havana, Cuba.	KFDY 1550	Brookings, S. D., <i>CST.</i>
CFBO 890	St. John, N. B.	CMCB 1070	Havana, Cuba, <i>EST.</i>	KFEL 920	Denver, Colo., <i>MST.</i>
CFCA 1120	Toronto, Ont., <i>EST.</i>	CMCD 1140	Havana, Cuba, <i>EST.</i>	KFEQ 680	St. Joseph, Mo., <i>CST.</i>
CFCF 1030	Montreal, Que., <i>EST.</i>	CMCF 890	Havana, Cuba, <i>EST.</i>	KFGQ 1310	Boone, Iowa, <i>CST.</i>
CFCH 930	North Bay, Ont., <i>EST.</i>	CMCG 1405	Havana, Cuba, <i>EST.</i>	KFHI 1300	Wichita, Kans., <i>CST.</i>
CFCN 985	Calgary, Alta., <i>MST.</i>	CMCJ 1185	Havana, Cuba.	KFJH 640	Los Angeles, Calif., <i>PST.</i>
CFCO 1010	Chatham, Ont., <i>EST.</i>	CMCM 1405	Havana, Cuba.	KFIO 1120	Spokane, Wash., <i>PST.</i>
CFCT 630	Victoria, B. C., <i>PST.</i>	CMCN 925	Havana, Cuba.	KFIZ 1420	Fond du Lac, Wis., <i>CST.</i>
CFCY 580	Charlottetown, P. E. I.	CMCQ 780	Havana, Cuba.	KFJB 1200	Marshalltown, Iowa.
CFJC 1120	Kamloops, B. C., <i>PST.</i>	CMCR 1365	Havana, Cuba.	KFJI 1210	Klamath Falls, Ore.
CFJE 915	Prescott, Ont., <i>EST.</i>	CMCU 930	Havana, Cuba.	KFJM 1370	Grand Forks, N. D.
CFNB 910	Fredericton, N. B., <i>AST.</i>	CMCV 965	Havana, Cuba, <i>EST.</i>	KFJR 1300	Portland, Ore., <i>PST.</i>
CFQC 1210	Saskatoon, Sask.	CMCW 1010	Havana, Cuba.	KFJZ 1370	Fort Worth, Texas, <i>CST.</i>
CFRB 990	Toronto, Ont., <i>EST.</i>	CMCX 1010	Havana, Cuba.	KFKA 880	Greeley, Colo., <i>MST.</i>
CFRC 930	Kingston, Ont.	CMCY 1325	Havana, Cuba, <i>EST.</i>	KFKU 1220	Lawrence, Kans., <i>CST.</i>
CHCH 1200	Montreal, Que.	CMDB 1395	Havana, Cuba.	KFKX 1020	Chicago, Ill.
CHCK 960	Charlottetown, P. E. I.	CMDD 588	Havana, Cuba.	KFLV 1410	Rockford, Ill., <i>CST.</i>
CHGS 1120	Summerside, P. E. I.	CMDE 925	Havana, Cuba.	KFLX 1370	Galveston, Texas.
CHLP 1200	Montreal, Que.	CMGA 834	Colon, Cuba.	KFMX 1250	Northfield, Minn., <i>CST.</i>
CHLS 730	Vancouver, B. C., <i>PST.</i>	CMGB 1205	Matanzas, Cuba.	KFNH 890	Shenandoah, Iowa, <i>CST.</i>
CHMA 580	Edmonton, Alta., <i>MST.</i>	CMGC 820	Matanzas, Cuba.	KFOR 1210	Lincoln, Neb., <i>CST.</i>
CHML 880	Hamilton, Ont., <i>EST.</i>	CMGE 1375	Cardenas, Cuba, <i>EST.</i>	KFOX 1250	Long Beach, Calif., <i>PST.</i>
CHNC 840	Toronto, Ont.	CMGF 987	Matanzas, Cuba.	KFPL 1310	Dublin, Texas, <i>CST.</i>
CHNS 815	Halifax, N. S., <i>AST.</i>	CMGH 1040	Matanzas, Cuba.	KPFM 1310	Greenville, Texas, <i>CST.</i>
CHRC 645	Quebec, Que., <i>EST.</i>	CMHG 950	Tainucu, Cuba.	KPFY 1210	Fort Smith, Ark., <i>CST.</i>
CHWC 960	Regina, Sask., <i>MST.</i>	CMHD 950	Saltara, Cuba.	KPFY 1340	Spokane, Wash., <i>PST.</i>
CHWK 665	Chilliwack, B. C., <i>PST.</i>	CMHI 1030	Santa Clara, Cuba, <i>EST.</i>	KQFD 1230	Anchorage, Alaska.
CHYC 730	Montreal, Que.	CMHJ 1125	Cienfuegos, Cuba, <i>EST.</i>	KFRG 610	San Francisco, Calif.
CJCA 745	Edmonton, Alta., <i>MST.</i>	CMHK 1225	Cruces, Cuba.	KFRU 630	Columbia, Mo., <i>CST.</i>
CJCB 880	Sydney, N. S., <i>AST.</i>	CMHL 1250	Cienfuegos, Cuba.	KFSD 600	San Diego, Calif., <i>PST.</i>
CJCC 690	Calgary, Alta., <i>MST.</i>	CMJM 1382	Camaguey, Cuba.	KFSG 1120	Los Angeles, Calif., <i>PST.</i>
CJCG 595	London, Ont., <i>EST.</i>	CMJE 1175	Camaguey, Cuba.	KFTL 1290	Galveston, Texas, <i>CST.</i>
CJGX 630	Yorkton, Sask., <i>CST.</i>	CMJF 930	Camaguey, Cuba.	KFUO 550	St. Louis, Mo., <i>CST.</i>
CJOC 1120	Lethbridge, Alta., <i>MST.</i>	CMJG 1050	Camaguey, Cuba.	KFVD 1000	Los Angeles, Calif., <i>PST.</i>
CJOR 1210	Vancouver, B. C., <i>PST.</i>	CMJH 1150	Ciego de Avila, Cuba.	KFVS 1210	Cape Girardeau, Mo.
CJRM 665	Moose Jaw, Sask., <i>MST.</i>	CMJI 1335	Ciego de Avila, Cuba.	KFWB 950	Los Angeles, Calif., <i>PST.</i>
CJRW 665	Fleming, Sask., <i>MST.</i>	CMJJ 790	Camaguey, Cuba.	KFWF 1200	St. Louis, Mo., <i>CST.</i>
CKAC 730	Montreal, Que., <i>EST.</i>	CMJL 960	Camaguey, Cuba.	KFWI 930	San Francisco, Calif.
CKGD 730	Vancouver, B. C.	CMJN 1240	Camaguey, Cuba.	KFXD 1200	Nampa, Idaho, <i>MST.</i>
CKCI 645	Quebec, Que., <i>EST.</i>	CMJO 1110	Ciego de Avila, Cuba.	KFXF 920	Denver, Colo., <i>MST.</i>
CKCK 960	Regina, Sask., <i>MST.</i>	CMJP 1360	Moron, Cuba.	KFJZ 1200	Grand Jet., Colo., <i>MST.</i>
CKGL 580	Toronto, Ont., <i>EST.</i>	CMK 730	Havana, Cuba, <i>EST.</i>	KFXM 1210	San Bernardino, Calif.
CKGO 890	Ottawa, Ont.	CMKC 1034	Santiago, Cuba.	KFYR 1310	Oklahoma City, Okla.
CKCR 645	Waterloo, Ont., <i>EST.</i>	CMKJ 1300	Guantanamo, Cuba.	KFYO 1310	Lubbock, Texas, <i>CST.</i>
CKCV 880	Quebec, Que., <i>CST.</i>	CMK 630	Havana, Cuba.	KFYR 550	Bismarck, N. D., <i>CST.</i>
CKFC 730	Vancouver, B. C.	CMW 590	Havana, Cuba, <i>EST.</i>	KGA 1470	Spokane, Wash., <i>PST.</i>
CKGW 840	Toronto, Ont., <i>EST.</i>	CMX 890	Havana, Cuba, <i>EST.</i>	KGAR 1370	Tucson, Ariz., <i>MST.</i>
CKIC 1010	Wolfville, N. S., <i>AST.</i>	CNRA 630	Moncton, N. B., <i>AST.</i>	KGB 1330	San Diego, Calif., <i>PST.</i>
CKLC 840	Red Deer, Alta., <i>MST.</i>	CNRH 815	Halifax, N. S., <i>AST.</i>	KGBU 900	Ketchikan, Alaska.
CKMC 1210	Coialt., Ont., <i>EST.</i>	CNRO 600	Ottawa, Ont., <i>EST.</i>	KGBX 1310	Springfield, Mo., <i>CST.</i>
CKMO 960	Vancouver, B. C.	CNRV 1030	Vancouver, B. C., <i>PST.</i>	KGBZ 930	York, Neb., <i>CST.</i>
CKNC 960	Toronto, Ont., <i>EST.</i>	CPRY 840	Toronto, Ont., <i>EST.</i>	KGCA 1270	Decorah, Iowa, <i>CST.</i>
CKOK 635	Hamilton, Ont., <i>EST.</i>	HPK 920	Port-au-Prince, Haiti.	KGCR 1210	Watertown, S. D., <i>CST.</i>
CKOY 540	Windsor, Ont., <i>EST.</i>	HIX 579	Santo Domingo, <i>EST.</i>	KGCU 1240	Manhan, N. D., <i>MST.</i>
CKPC 1200	Kelowna, B. C., <i>PST.</i>	HJN 685	Bogota, Colombia.	KGCV 1310	Wolf Point, Mont., <i>MST.</i>
CKPR 890	Preston, Ont., <i>EST.</i>	KABC 1420	San Antonio, Tex., <i>CST.</i>	KGDA 1370	Witchell, S. D., <i>CST.</i>
CKTB 635	St. Catharines, Ont.	KALE 1300	Portland, Ore., <i>PST.</i>	KGDE 1200	Fergus Falls, Minn.
CKUA 580	Edmonton, Alta., <i>MST.</i>	KARK 890	Little Rock, Ark., <i>CST.</i>	KGDM 1100	Stockton, Calif., <i>PST.</i>
CKWX 730	Vancouver, B. C., <i>PST.</i>	KASA 1210	Elk City, Okla., <i>AST.</i>	KGDY 1340	Huron, S. D., <i>CST.</i>
CKX 930	Brandon, Man., <i>CST.</i>	KBPS 1420	Portland, Ore., <i>PST.</i>	KGKE 1200	Yuma, Colo., <i>MST.</i>
CKY 780	Winnipeg, Man., <i>CST.</i>	KBTM 1200	Paragould, Ark., <i>CST.</i>	KGER 1360	Long Beach, Calif., <i>PST.</i>
CMAB 1249	Pinar del Rio, Cuba.	KCMC 1420	Texarkana, Ark., <i>CST.</i>	KGEW 1200	Ft. Morgan, Colo., <i>MST.</i>
CMAF 660	Havana, Cuba, <i>EST.</i>	KCRC 1370	Unid, Okla., <i>CST.</i>	KGEZ 1310	Kalispell, Mont., <i>MST.</i>
CMAY 965	Havana, Cuba.	KCRJ 1310	Jerome, Ariz., <i>MST.</i>	KGFF 1420	Shawnee, Okla., <i>CST.</i>
CMBC 1270	Havana, Cuba, <i>EST.</i>	KDB 1500	Santa Barbara, Calif.	KGFI 1370	Oklahoma City, Okla.
CMBD 965	Havana, Cuba.	KDFN 1440	Casper, Wyo., <i>MST.</i>	KGFL 1500	Corpus Christi, Texas.
CMBF 1325	Havana, Cuba.	KDKA 980	Pittsburgh, Pa., <i>CST.</i>	KGFJ 1200	Los Angeles, Calif.
CMBG 1070	Havana, Cuba.	KDLR 1210	Devils Lake, N. D., <i>CST.</i>	KGFK 1500	Moorhead, Minn., <i>CST.</i>
CMBJ 1140	Havana, Cuba.	KDYL 1290	Salt Lake City, Utah	KGFL 1370	Santa Fe, N. M., <i>MST.</i>
CMBK 1485	Havana, Cuba.	KECA 1430	Los Angeles, Calif., <i>PST.</i>	KGFV 1310	Kearney, Neb., <i>CST.</i>
CMBL 1445	Havana, Cuba, <i>EST.</i>	KELW 780	Burbank, Calif., <i>PST.</i>	KGFX 630	Pierre, S. D.
CMBN 1185	Havana, Cuba, <i>EST.</i>	KERN 1200	Bakersfield, Calif., <i>PST.</i>	KGGC 1420	San Francisco, Calif.
CMBR 1485	Havana, Cuba.	KEX 1180	Portland, Ore., <i>PST.</i>	KGGF 1010	Coffeyville, Kans., <i>CST.</i>
CMBS 780	Havana, Cuba.	KFB 770	Lincoln, Neb., <i>CST.</i>	KGGM 1230	Albuquerque, N. M.
CMBW 925	Havana, Cuba.	KFAC 1300	Los Angeles, Calif., <i>PST.</i>	KGHI 1320	Pueblo, Colo., <i>MST.</i>
CMBY 1230	Havana, Cuba.	KFBB 1280	Great Falls, Mont., <i>MST.</i>	KGHJ 1200	Little Rock, Ark., <i>CST.</i>
CMBZ 1010	Havana, Cuba, <i>EST.</i>	KFBI 1050	Abilene, Kans., <i>CST.</i>	KGHL 950	Billings, Mont., <i>MST.</i>
CMC 840	Havana, Cuba.	KFBK 1310	Sacramento, Calif., <i>PST.</i>	KGIR 1360	Butte, Mont., <i>MST.</i>
		KFBL 1370	Everett, Wash., <i>PST.</i>		
		KFDM 560	Beaumont, Tex., <i>CST.</i>		

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KGIW 1420	Trinidad, Colo., <i>MST.</i>	KROW 930	Oakland, Calif., <i>PST.</i>	WBAK 1430	Harrisburg, Pa., <i>EST.</i>
KGIX 1420	Las Vegas, Nev., <i>PST.</i>	KRSC 1120	Seattle, Wash., <i>PST.</i>	WBAL 1060	Baltimore, Md., <i>EST.</i>
KGIZ 1500	Grant City, Mo., <i>CST.</i>	KSAC 580	Manhattan, Kans., <i>CST.</i>	WBAP 800	Ft. Worth, Texas, <i>CST.</i>
KGKB 1500	Tyler, Texas, <i>CST.</i>	KSBJ 1330	Sioux City, Iowa, <i>CST.</i>	WBAX 1210	Wilkes Barre, Pa., <i>EST.</i>
KGKL 1370	San Angelo, Texas, <i>CST.</i>	KSD 550	St. Louis, Mo., <i>CST.</i>	WBBC 1400	Brooklyn, N. Y., <i>EST.</i>
KGKO 570	Wichita Falls, Texas, <i>MST.</i>	KSEI 890	Pocatello, Idaho, <i>MST.</i>	WBBL 1210	Richmond, Va., <i>EST.</i>
KGKY 1420	Leviston, Idaho.	KSL 1130	Salt Lake City, Utah.	WBBM 770	Chicago, Ill., <i>CST.</i>
KGKY 1500	Scottsbluff, Neb., <i>MST.</i>	KSO 1380	Des Moines, Iowa.	WBRR 1300	Brooklyn, N. Y., <i>EST.</i>
KGMB 1320	Honolulu, Hawaii.	KSOO 1110	Sioux Falls, S. D., <i>CST.</i>	WBZZ 1200	Ponca City, Okla., <i>CST.</i>
KGNF 1430	North Platte, Neb.	KSTP 1460	St. Paul, Minn., <i>CST.</i>	WBGM 1410	Bay City, Mich., <i>EST.</i>
KGNO 1210	Dodge City, Kans.	KTAB 560	San Francisco, Calif.	WBEN 900	Buffalo, N. Y., <i>EST.</i>
KGO 790	San Francisco, Calif.	KTHN 620	Phoenix, Ariz., <i>MST.</i>	WBEO 1310	Marquette, Mich., <i>CST.</i>
KGRS 1410	Amarillo, Texas, <i>CST.</i>	KTAT 1240	Ft. Worth, Texas.	WBHS 1200	Huntsville, Ala., <i>EST.</i>
KGU 750	Honolulu, Hawaii.	KTBS 1450	Shreveport, La., <i>CST.</i>	WBIG 1440	Greensboro, N. C., <i>EST.</i>
KGVO 1200	Missoula, Mont., <i>MST.</i>	KTFI 1240	Twin Falls, Idaho, <i>MST.</i>	WBKX 1350	New York City, <i>EST.</i>
KGW 620	Portland, Ore., <i>PST.</i>	KTHS 1040	Hot Springs, Ark., <i>CST.</i>	WBOQ 860	New York City.
KGY 1210	Olympia, Wash., <i>PST.</i>	KTM 780	Los Angeles, Calif., <i>PST.</i>	WBQJ 1310	Terre Haute, Ind., <i>CST.</i>
KHJ 900	Los Angeles, Calif., <i>PST.</i>	KTRH 1120	Houston, Texas, <i>CST.</i>	WBRC 930	Birmingham, Ala., <i>CST.</i>
KHQ 590	Spokane, Wash., <i>PST.</i>	KTSA 1290	San Antonio, Tex., <i>CST.</i>	WBRE 310	Wilkes Barre, Pa.
KIGA 1370	Clovis, N. M.	KTSM 1310	El Paso, Texas.	WBSO 920	Babson Park, Mass.
KICK 1420	Red Oak, Iowa	KUJ 1220	Seattle, Wash.	WBT 1080	Charlotte, N. C., <i>EST.</i>
KID 1320	Idaho Falls, Idaho, <i>MST.</i>	KTW 1370	Walla Walla, Wash.	WBTM 1370	Danville, Va., <i>EST.</i>
KIDO 1350	Boise, Idaho, <i>MST.</i>	KUMA 1420	Yuma, Ariz., <i>MST.</i>	WBZ 990	Dorchester, Mass., <i>EST.</i>
KIDW 1420	Lamar, Colo., <i>MST.</i>	KUOA 1390	Fayetteville, Ark., <i>CST.</i>	WBZA 980	Springfield, Mass., <i>EST.</i>
KIEM 1210	Eureka, Calif., <i>PST.</i>	KUSD 890	Vermillion, S. D., <i>CST.</i>	WCAC 600	Storrs, Conn., <i>EST.</i>
KIEV 859	Glendale, Calif., <i>PST.</i>	KVI 570	Tacoma, Wash., <i>PST.</i>	WCAD 1220	Canton, N. Y., <i>EST.</i>
KIFH 1310	Juneau, Alaska	KVL 1370	Seattle, Wash.	WCAE 1220	Pittsburgh, Pa., <i>EST.</i>
KIT 1310	Yakima, Wash., <i>PST.</i>	KVOA 1260	Tucson, Ariz.	WCAH 1430	Columbus, Ohio, <i>EST.</i>
KJBS 1070	San Francisco, Calif.	KVOA 1140	Tulsa, Okla., <i>CST.</i>	WCAJ 580	Lincoln, Neb., <i>CST.</i>
KJR 970	Seattle, Wash., <i>PST.</i>	KVOR 1270	Colorado Springs, Colo.	WCAL 1250	Northfield, Minn., <i>CST.</i>
KLCN 1290	Blytheville, Ark.	KVGS 1200	Bellingham, Wash.	WCAM 1280	Camden, N. J., <i>EST.</i>
KLO 1400	Ogden, Utah.	KWCR 1420	Cedar Rapids, Ia., <i>CST.</i>	WCAO 600	Baltimore, Md., <i>EST.</i>
KLPM 1240	Minot, N. D., <i>CST.</i>	KWEA 1210	Shreveport, La.	WCAP 1280	Asbury Park, N. J., <i>EST.</i>
KLRA 1390	Little Rock, Ark., <i>CST.</i>	KWG 1200	Stockton, Calif., <i>PST.</i>	WCAT 1200	Rapid City, S. D., <i>CST.</i>
KLS 1440	Oakland, Calif., <i>PST.</i>	KWJG 1060	Portland, Ore.	WCAU 1170	Philadelphia, Pa., <i>EST.</i>
KLX 880	Oakland, Calif., <i>PST.</i>	KWK 1350	St. Louis, Mo., <i>CST.</i>	WCAX 1200	Burlington, Vt., <i>EST.</i>
KLZ 560	Denver, Colo., <i>MST.</i>	KWKC 1370	Kansas City, Mo.	WCAY 1070	Carthage, Ill., <i>CST.</i>
KMA 930	Shenandoah, Iowa, <i>CST.</i>	KWKH 850	Shreveport, La., <i>CST.</i>	WCBA 1440	Allentown, Pa., <i>EST.</i>
KMAC 1370	San Antonio, Tex., <i>CST.</i>	KWLC 1270	Decorah, Iowa, <i>CST.</i>	WCBD 1080	Zion, Ill., <i>CST.</i>
KMBC 950	Kansas City, Mo., <i>CST.</i>	KWSC 1220	Pullman, Wash., <i>PST.</i>	WCBS 1370	Baltimore, Md., <i>EST.</i>
KMED 1310	Medford, Ore., <i>PST.</i>	KWWG 1260	Brownsville, Texas.	WCBS 1210	Springfield, Ill., <i>CST.</i>
KMJ 580	Fresno, Calif., <i>PST.</i>	KXA 760	Seattle, Wash., <i>PST.</i>	WCBO 810	Minneapolis, Minn.
KMLB 1200	Monroe, La., <i>CST.</i>	KXL 1420	Portland, Ore., <i>PST.</i>	WCDA 1350	New York City, <i>EST.</i>
KMMJ 740	Clay Center, Neb., <i>CST.</i>	KXO 1500	El Centro, Calif.	WCFL 970	Chicago, Ill., <i>CST.</i>
KMO 1330	Tacoma, Wash., <i>PST.</i>	KXRO 1310	Aberdeen, Wash., <i>PST.</i>	WCGU 1400	Brooklyn, N. Y., <i>EST.</i>
KMOX 1090	St. Louis, Mo., <i>CST.</i>	KXYZ 1440	Houston, Texas, <i>CST.</i>	WCKY 1490	Covington, Ky., <i>CST.</i>
KMPK 710	Beverly Hills, Calif.	KYA 1230	San Francisco, Calif.	WCLO 1200	Janesville, Wis., <i>CST.</i>
KMTR 570	Hollywood, Calif., <i>PST.</i>	KYW 1020	Chicago, Ill., <i>CST.</i>	WCLS 1310	Joliet, Ill., <i>CST.</i>
KNOW 1500	Austin, Texas, <i>CST.</i>	KZRM 618.5	Manila, P. I.	WCOA 1340	Pensacola, Fla., <i>CST.</i>
KNX 1050	Hollywood, Calif., <i>PST.</i>	NAA 690	Arlington, Va.	WCOB 880	Meridian, Miss., <i>CST.</i>
KOA 830	Denver, Colo., <i>MST.</i>	RUS 664	Salvador.	WCOD 1200	Harrisburg, Pa., <i>EST.</i>
KOAC 550	Corvallis, Ore., <i>PST.</i>	TIGR 911	San Jose, C. R.	WCOR 1210	Chicago, Ill., <i>CST.</i>
KOB 1180	Albuquerque, N. M.	VAS 685	Glace Bay, N. S., <i>AST.</i>	WCSC 1360	Charleston, S. C., <i>EST.</i>
KOCW 1400	Chickasha, Okla.	VOAS 810	St. Johns, N. F.	WCSH 940	Portland, Maine, <i>EST.</i>
KOH 1380	Reno, Nev., <i>PST.</i>	VOGT 893	Wabana, N. F.	WDAE 1220	Tampa, Fla., <i>EST.</i>
KOIL 1260	Council Bluffs, Ia., <i>CST.</i>	VOGY 860	St. Johns, N. F.	WDAF 610	Kansas City, Mo., <i>CST.</i>
KOIN 940	Portland, Ore., <i>PST.</i>	VONA 950	St. Johns, N. F.	WDAG 1410	Amarillo, Texas, <i>CST.</i>
KOL 1270	Seattle, Wash., <i>PST.</i>	VONF 1195	St. Johns, N. F.	WDAH 1310	El Paso, Texas.
KOMA 1480	Oklahoma City, Okla.	VOWR 750	St. Johns, N. F.	WDAS 1370	Philadelphia, Pa., <i>EST.</i>
KOMO 920	Seattle, Wash., <i>PST.</i>	WAAB 1410	Boston, Mass., <i>EST.</i>	WDAY 940	Fargo, N. D., <i>CST.</i>
KONO 1370	San Antonio, Tex., <i>CST.</i>	WAAF 920	Chicago, Ill., <i>CST.</i>	WDBJ 930	Roanoke, Va., <i>EST.</i>
KOOS 1370	Marshfield, Ore., <i>PST.</i>	WAAM 1250	Newark, N. J., <i>EST.</i>	WDBO 580	Orlando, Fla., <i>EST.</i>
KORE 1420	Eugene, Ore., <i>PST.</i>	WAAT 940	Jersey City, N. J., <i>EST.</i>	WDEL 1120	Wilmingon, Del., <i>EST.</i>
KOY 1390	Phoenix, Ariz., <i>MST.</i>	WAAW 660	Omaha, Neb., <i>CST.</i>	WDEV 550	Waterbury, Vt., <i>EST.</i>
KPCB 650	Seattle, Wash., <i>PST.</i>	WABC 860	New York City, <i>EST.</i>	WDGY 1180	Minneapolis, Minn.
KPFM 1500	Prescott, Ariz., <i>MST.</i>	WABI 1200	Bangor, Maine, <i>EST.</i>	WDDO 1280	Chattanooga, Tenn.
KPO 680	San Francisco, Calif.	WABZ 1200	New Orleans, La., <i>CST.</i>	WDRS 1330	Hartford, Conn., <i>EST.</i>
KPOF 880	Denver, Colo., <i>MST.</i>	WACO 1240	Waco, Texas, <i>CST.</i>	WDSU 1250	New Orleans, La., <i>CST.</i>
KPPP 1210	Pasadena, Calif., <i>PST.</i>	WADC 1320	Akron, Ohio, <i>EST.</i>	WDZ 1070	Tuscola, Ill., <i>CST.</i>
KPQ 1500	Wenatchee, Wash., <i>PST.</i>	WAGM 1420	Presque Isle, Me., <i>EST.</i>	WEAF 660	New York City, <i>EST.</i>
KPRC 920	Houston, Texas, <i>CST.</i>	WAIU 640	Columbus, Ohio, <i>EST.</i>	WEAN 780	Providence, R. I., <i>EST.</i>
KQV 1380	Pittsburgh, Pa., <i>EST.</i>	WALR 1210	Zanesville, Ohio, <i>EST.</i>	WEAO 570	Columbus, Ohio, <i>EST.</i>
KQW 1010	San Jose, Calif., <i>PST.</i>	WAMC 1420	Anniston, Ala., <i>CST.</i>	WEBC 1290	Superior, Wis., <i>CST.</i>
KRE 1370	Berkeley, Calif., <i>PST.</i>	WAML 1310	Laurel, Miss.	WEBQ 1210	Harrisburg, Ill., <i>CST.</i>
KREG 1500	Santa Ana, Calif., <i>PST.</i>	WAPI 1140	Birmingham, Ala., <i>CST.</i>	WEBR 1310	Buffalo, N. Y., <i>EST.</i>
KRGV 1260	Harlingen, Texas, <i>CST.</i>	WASH 1270	Gd. Rapids, Mich., <i>EST.</i>	WEDC 1210	Chicago, Ill.
KRKD 1120	Los Angeles, Calif., <i>PST.</i>	WAWZ 1350	Zarephath, N. J., <i>EST.</i>	WEEL 590	Boston, Mass., <i>EST.</i>
KRLD 1040	Dallas, Texas, <i>CST.</i>	WAZL 1420	Hazleton, Pa., <i>EST.</i>	WEUJ 830	Reading, Pa., <i>EST.</i>
KRMD 1310	Shreveport, Iowa, <i>CST.</i>	WBAA 1400	Lafayette, Ind., <i>CST.</i>	WEHC 1350	Emory, Va., <i>EST.</i>

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WEHS 1420 Cicero, Ill., <i>CST.</i>	WILL 899 Urbana, Ill., <i>CST.</i>	WMC 780 Memphis, Tenn., <i>CST.</i>
WELL 1420 Battle Creek, Mich.	WILM 1420 Wilmington, Del., <i>EST.</i>	WMCA 570 New York City, <i>EST.</i>
WENC 1420 Americus Ga., <i>EST.</i>	WINS 1180 New York City, <i>EST.</i>	WMIL 1500 Brooklyn, N. Y., <i>EST.</i>
WENR 870 Chicago, Ill., <i>CST.</i>	WIOD 1300 Miami, Fla., <i>EST.</i>	WMNN 890 Fairmont, W. V., <i>EST.</i>
WERE 1420 Erie, Pa., <i>EST.</i>	WIP 610 Philadelphia, Pa., <i>EST.</i>	WMPC 1500 Lapeer, Mich., <i>EST.</i>
WESG 1040 Elmira, N. Y.	WIS 1010 Columbia, S. C., <i>EST.</i>	WMSC 1350 New York City, <i>EST.</i>
WEVD 1300 New York City, <i>EST.</i>	WISN 1210 Milwaukee, Wis., <i>CST.</i>	WMT 500 Waterloo, Iowa, <i>CST.</i>
WEW 760 St. Louis, Mo., <i>CST.</i>	WJAC 1310 Johnstown, Pa., <i>EST.</i>	WNAC 1230 Boston, Mass., <i>EST.</i>
WEXL 1310 Royal Oak, Mich., <i>EST.</i>	WJAG 1060 Norfolk, Neb., <i>CST.</i>	WNAD 1010 Norman, Okla., <i>EST.</i>
WFLA 800 Dallas, Texas, <i>CST.</i>	WJAR 890 Providence, R. I., <i>EST.</i>	WNAX 1500 Yankton, S. D., <i>CST.</i>
WFAB 1300 New York City, <i>EST.</i>	WJAS 1290 Pittsburgh, Pa., <i>EST.</i>	WNBB 1500 Binghamton, N. Y., <i>EST.</i>
WFAM 1200 South Bend, Ind., <i>CST.</i>	WJAX 900 Jacksonville, Fla., <i>EST.</i>	WNBB 1310 New Bedford, Mass.
WFAS 1210 White Plains, N. Y.	WJAY 610 Cleveland, Ohio, <i>EST.</i>	WNBO 1200 Washington, Pa., <i>EST.</i>
WFBC 1200 Greenville, S. C.	WJBC 1200 LaSalle, Ill., <i>CST.</i>	WNBK 1430 Memphis, Tenn., <i>CST.</i>
WFBE 1200 Cincinnati, Ohio, <i>EST.</i>	WJBI 1210 Red Bank, N. J., <i>EST.</i>	WNBW 1200 Carbonate, Pa., <i>EST.</i>
WFBG 1310 Altoona, Pa.	WJBK 1370 Detroit, Mich., <i>EST.</i>	WNBX 1260 Springfield, Vt., <i>EST.</i>
WFBL 1300 Syracuse, N. Y., <i>EST.</i>	WJBL 1200 Decatur, Ill., <i>CST.</i>	WNBZ 1290 Saranac Lake, N. Y.
WFBM 1230 Indianapolis, Ind., <i>CST.</i>	WJBO 1420 New Orleans, La.	WNJ 1450 Newark, N. J., <i>EST.</i>
WFRB 1270 Baltimore, Md., <i>EST.</i>	WJBU 1210 Lewisburg, Pa., <i>EST.</i>	WNKY 560 Knoxville, Tenn., <i>CST.</i>
WFD 1310 Flint, Mich., <i>EST.</i>	WJBW 1200 New Orleans, La., <i>CST.</i>	WNYC 570 New York City, <i>EST.</i>
WFDV 1500 Rome, Ga., <i>CST.</i>	WJBY 1210 Gadsden, Ala., <i>CST.</i>	WOAI 1190 San Antonio, Tex., <i>CST.</i>
WFEA 1430 Manchester, N. H., <i>EST.</i>	WJDX 1270 Jackson, Miss., <i>CST.</i>	WOAX 1280 Trenton, N. J., <i>EST.</i>
WFI 560 Philadelphia, Pa., <i>EST.</i>	WJEA 1270 Hagerstown, Md.	WOB 580 Charleston, W. Va., <i>EST.</i>
WFIW 940 Hopkinsville, Ky., <i>CST.</i>	WJEQ 1310 Williamsport, Pa.	WOC 1000 Davenport, Iowa, <i>CST.</i>
WFLA 620 Clearwater, Fla., <i>EST.</i>	WJJD 1130 Chicago, Ill., <i>CST.</i>	WOCL 1210 Jamestown, N. Y., <i>EST.</i>
WFOX 1400 Brooklyn, N. Y., <i>EST.</i>	WJKS 1360 Gary, Ind., <i>EST.</i>	WODA 1250 Paterson, N. J.
WGAL 1310 Lancaster, Pa., <i>EST.</i>	WJMS 1420 Ironwood, Mich., <i>CST.</i>	WODX 1410 Mobile, Ala., <i>CST.</i>
WGAR 1450 Cleveland, Ohio, <i>EST.</i>	WJR 750 Detroit, Mich., <i>EST.</i>	WOI 640 Ames, Iowa, <i>CST.</i>
WGBB 1210 Freeport, N. Y., <i>EST.</i>	WJSV 1460 Washington, D. C., <i>EST.</i>	WOKO 1430 Albany, N. Y., <i>EST.</i>
WGBF 630 Evansville, Ind., <i>CST.</i>	WJTL 1370 Atlanta, Ga., <i>CST.</i>	WOL 1310 Washington, D. C., <i>EST.</i>
WGBI 880 Scranton, Pa., <i>EST.</i>	WJW 1210 Akron, Ohio, <i>EST.</i>	WOMT 1210 Manitowoc, Wis., <i>CST.</i>
WGCM 1210 Gulfport, Miss., <i>CST.</i>	WJWJ 760 New York City, <i>EST.</i>	WOOD 1270 Grd. Rapids, Mich., <i>EST.</i>
WGCP 1350 Newark, N. J., <i>EST.</i>	WKAQ 1240 San Juan, P. R., <i>EST.</i>	WOPI 1500 Bristol, Tenn., <i>EST.</i>
WGES 1380 Chicago, Ill., <i>CST.</i>	WKAR 1040 E. Lansing, Mich., <i>EST.</i>	WOR 1300 Kansas City, Mo., <i>CST.</i>
WGH 1310 Newport News, Va.	WKAV 1310 Laconia, N. H., <i>EST.</i>	WQQ 710 Newark, N. J., <i>EST.</i>
WGL 1370 Fort Wayne, Ind., <i>CST.</i>	WKBB 1310 Joliet, Ill., <i>CST.</i>	WORC 1200 Worcester, Mass., <i>EST.</i>
WGLC 1370 Hudson Falls, N. Y., <i>EST.</i>	WKBC 1310 Birmingham, Ala.	WORK 1000 York, Pa., <i>EST.</i>
WGN 120 Chicago, Ill., <i>CST.</i>	WKBF 1400 Indianapolis, Ind., <i>CST.</i>	WOS 630 Jefferson City, Mo.
WGNV 1210 Chester, N. Y., <i>EST.</i>	WKBH 1380 LaCrosse, W. V., <i>EST.</i>	WOV 1130 New York City, <i>EST.</i>
WGR 550 Buffalo, N. Y., <i>EST.</i>	WKBI 1420 Cicero, Ill., <i>CST.</i>	WOW 590 Omaha, Neb., <i>CST.</i>
WGST 890 Atlanta, Ga., <i>CST.</i>	WKBN 570 Youngstown, Ohio, <i>EST.</i>	WOWB 1160 Fort Wayne, Ind., <i>CST.</i>
WGY 790 Schenectady, N. Y., <i>EST.</i>	WKBW 1500 Connorsville, Ind., <i>CST.</i>	WPAD 1420 Paducah, Ky., <i>CST.</i>
WH 940 Madison, Wis., <i>CST.</i>	WKBY 1480 Buffalo, N. Y., <i>EST.</i>	WPAP 1010 New York City, <i>EST.</i>
WHAD 1120 Milwaukee, Wis., <i>CST.</i>	WKBY 1500 Ludington, Mich., <i>CST.</i>	WPAPV 1210 Providence, R. I., <i>EST.</i>
WHAM 1150 Rochester, N. Y., <i>EST.</i>	WKBU 1500 LaGrange, Ga.	WPCC 560 Chicago, Ill.
WHAS 820 Louisville, Ky., <i>CST.</i>	WKFI 1210 Greenville, Miss., <i>CST.</i>	WPCH 810 New York City, <i>EST.</i>
WHAT 1310 Philadelphia, Pa., <i>EST.</i>	WKJC 1200 Lancaster, Pa., <i>EST.</i>	WPEN 1500 Philadelphia, Pa., <i>EST.</i>
WHB 1340 Troy, N. Y., <i>EST.</i>	WKRC 550 Cincinnati, Ohio, <i>EST.</i>	WPF 1370 Hattiesburg, Miss., <i>CST.</i>
WHBB 860 Kansas City, Mo., <i>CST.</i>	WKY 900 Oklahoma City, Okla.	WPG 1100 Atlantic City, N. J., <i>EST.</i>
WHBC 1200 Canton, Ohio, <i>EST.</i>	WKZO 590 Kalamazoo, Mich., <i>EST.</i>	WPHR 1200 Petersburg, Va., <i>EST.</i>
WHBD 1370 Mt. Orab, Ohio, <i>EST.</i>	WL 1470 Nashville, Tenn., <i>CST.</i>	WPR 780 Norfolk, Va.
WHBF 1210 Rock Island, Ill., <i>CST.</i>	WLAP 1200 Louisville, Ky., <i>CST.</i>	WPT 1210 Providence, R. I., <i>EST.</i>
WHBL 1410 Sheboygan, Wis., <i>CST.</i>	WLB 1250 Minneapolis, Minn., <i>CST.</i>	WPTF 680 Raleigh, N. C., <i>EST.</i>
WHBQ 1370 Memphis, Tenn., <i>CST.</i>	WLBC 1310 Muncie, Ind., <i>CST.</i>	WQAM 560 Miami, Fla., <i>EST.</i>
WHBU 1320 Anderson, Ind., <i>CST.</i>	WLBF 1420 Kansas City, Kans., <i>CST.</i>	WQAN 880 Scranton, Pa., <i>EST.</i>
WHBY 1200 Green Bay, Wis., <i>CST.</i>	WLBI 900 Stevens Point, Wis., <i>CST.</i>	WQAD 1010 New York City, <i>EST.</i>
WHDF 1370 Calumet, Mich., <i>CST.</i>	WLBS 1260 Erie, Pa., <i>EST.</i>	WQBC 1360 Vicksburg, Miss., <i>CST.</i>
WHDH 830 Boston, Mass., <i>EST.</i>	WLBT 620 Bangor, Maine, <i>EST.</i>	WQDM 1370 St. Albans, Vt., <i>EST.</i>
WHDL 1420 Tupper Lake, N. Y., <i>EST.</i>	WLEC 1340 Portland, Me., <i>EST.</i>	WQDX 1210 Thomasville, Ga.
WHEB 740 Portsmouth, N. H., <i>EST.</i>	WLEY 1370 Lexington, Mass., <i>EST.</i>	WR 1370 Williamsport, Pa., <i>EST.</i>
WHEC 1430 Rochester, N. Y., <i>EST.</i>	WLET 560 Philadelphia, Pa., <i>EST.</i>	WRAM 1370 Wilmington, N. C., <i>EST.</i>
WHEF 1500 Kosciusko, Miss.	WLOE 1500 Boston, Mass., <i>EST.</i>	WRAP 1310 Reading, Pa., <i>EST.</i>
WHET 1210 Troy, Ala., <i>CST.</i>	WLS 870 Chicago, Ill., <i>CST.</i>	WRAX 1020 Philadelphia, Pa., <i>EST.</i>
WHFC 1420 Cicero, Ill., <i>CST.</i>	WLTH 1400 Brooklyn, N. Y., <i>EST.</i>	WRBL 1200 Columbus, Ga., <i>CST.</i>
WHIS 1410 Bluefield, W. Va., <i>EST.</i>	WLVA 1370 Lynchburg, Va., <i>EST.</i>	WRBX 1410 Roanoke, Va., <i>EST.</i>
WHK 1390 Cleveland, Ohio, <i>EST.</i>	WLW 700 Cincinnati, Ohio, <i>EST.</i>	WRD 950 Washington, D. C., <i>EST.</i>
WHKN 1010 New York City, <i>EST.</i>	WLWL 1100 New York City, <i>EST.</i>	WRDO 1370 Augusta, Maine, <i>EST.</i>
WHO 1000 Des Moines, Iowa.	WMAC 570 Syracuse, N. Y.	WRDW 1500 Augusta, Ga., <i>EST.</i>
WHOM 1450 Jersey City, N. J., <i>EST.</i>	WAML 630 Washington, D. C., <i>EST.</i>	WREC 600 Memphis, Tenn.
WHP 1430 Harrisburg, Pa., <i>EST.</i>	WMAQ 670 Chicago, Ill., <i>CST.</i>	WREN 1220 Lawrence, Kans., <i>CST.</i>
WIAS 1310 Ottumwa, Iowa, <i>CST.</i>	WMAS 1420 Springfield, Mass., <i>EST.</i>	WRHM 1250 Minneapolis, Minn., <i>CST.</i>
WIBA 1280 Madison, Wis., <i>CST.</i>	WMAZ 1180 Macon, Ga., <i>EST.</i>	WRJN 1370 Racine, Wis., <i>CST.</i>
WIBG 930 Glenside, Pa., <i>EST.</i>	WMB 1420 Detroit, Mich., <i>EST.</i>	WRNY 1010 New York City, <i>EST.</i>
WIBM 1370 Jackson, Mich., <i>EST.</i>	WMBD 1440 Peoria, Ill., <i>CST.</i>	WROL 1310 Knoxville, Tenn., <i>CST.</i>
WIBO 560 Chicago, Ill., <i>CST.</i>	WMBL 1210 Richmond, Va., <i>EST.</i>	WRR 1200 Dallas, Texas, <i>CST.</i>
WIBU 1210 Poynette, Wis., <i>CST.</i>	WMBH 1420 Joplin, Mo., <i>CST.</i>	WRUF 830 Gainesville, Fla., <i>EST.</i>
WIBW 580 Topeka, Kans., <i>CST.</i>	WMBI 1080 Chicago, Ill., <i>CST.</i>	WRVA 1110 Richmond, Va., <i>EST.</i>
WIBX 1200 Utica, N. Y.	WMBO 1310 Auburn, N. Y., <i>EST.</i>	WSAI 1330 Cincinnati, Ohio, <i>EST.</i>
WICC 600 Bridgeport, Conn., <i>EST.</i>	WMBR 1500 Brooklyn, N. Y., <i>EST.</i>	WSAJ 1310 Grove City, Pa.
WIL 1200 St. Louis, Mo., <i>CST.</i>	WMBR 1370 Tampa, Fla., <i>EST.</i>	WSAN 1440 Allentown, Pa., <i>EST.</i>

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WSAR 1450	Fall River, Mass., <i>EST.</i>	WWJ 920	Detroit, Mich., <i>EST.</i>	XEL 1000	Saltillo, Mex., <i>CST.</i>
WSAZ 580	Huntington, W. Va., <i>EST.</i>	WWL 850	New Orleans, La., <i>CST.</i>	XEM 660	Matamoros, Mex.
WSB 740	Atlanta, Ga., <i>CST.</i>	WWNC 570	Asheville, N. C., <i>CST.</i>	XEN 711	Mexico City, <i>CST.</i>
WSBC 1210	Chicago, Ill., <i>CST.</i>	WWRL 1500	Woodside, N. Y., <i>EST.</i>	XENT 1115	Neuvo Laredo, Mex.
WSBT 1230	South Bend, Ind., <i>CST.</i>	WWSW 1500	Pittsburgh, Va., <i>EST.</i>	XEP 780	Mexico City, Mex.
WSEN 1210	Columbus, Ohio, <i>EST.</i>	WWVA 1160	Wheeling, W. Va., <i>EST.</i>	XEPN 595	Piedras Negras, Mex.
WSFA 1410	Montgomery, Ala., <i>CST.</i>	WXYZ 1240	Detroit, Mich., <i>EST.</i>	XER 735	Villa Acuna, Mex.
WSIX 1210	Springfield, Tenn., <i>CST.</i>	XEA 1000	Guadalajara, Mex., <i>CST.</i>	XES 1055	Tampico, Mex., <i>CST.</i>
WSJS 1310	Winston-Salem, N. C., <i>EST.</i>	XEAB 1450	N. Laredo, Mex.	XET 690	Monterrey, Mex., <i>CST.</i>
WSM 650	Nashville, Tenn., <i>CST.</i>	XEAC 1295	San Luis Potosi, Mex.	XETA 1140	Mexico City, Mex.
WSMB 1320	New Orleans, La., <i>CST.</i>	XEAD 875	Mexico City, Mex.	XETB 1300	Torreon, Mex.
WSMK 1380	Dayton, Ohio, <i>EST.</i>	XEAI 1090	Mexico City, Mex.	XETC 1080	Jalapa, Mex.
WSOC 1210	Gastonia, N. C., <i>EST.</i>	XEAN 750	Juarez, Mex., <i>MST.</i>	XETF 630	Veracruz, Mex., <i>CST.</i>
WSPA 1420	Spartanburg, S. C., <i>EST.</i>	XEAO 560	Mexicali, Mex.	XETH 840	Puebla, Mex.
WSPD 1340	Toledo, Ohio, <i>EST.</i>	XEAW 965	Reynosa, Mex.	XETM 845	Matamoros, Mex.
WSUI 880	Iowa City, Iowa, <i>CST.</i>	XEB 1030	Mexico City, Mex., <i>CST.</i>	XETR 610	Mexico City, Mex.
WSUN 620	St. Petersburg, Fla., <i>EST.</i>	XEC 1000	Toluca, Mex.	XETU 900	Pachuca, Mex.
WSVS 1370	Buffalo, N. Y., <i>EST.</i>	XED 1155	Guadalajara, Mex.	XETW 830	Mexico City, Mex.
WSYB 1500	Rutland, Vt., <i>EST.</i>	XEF 735	Villa Acuna, Mex.	XEU 1010	Veracruz, Mex., <i>CST.</i>
WSYR 570	Syracuse, N. Y., <i>EST.</i>	XEFA 1250	Mexico City, Mex.	XEW 910	Mexico City, Mex., <i>CST.</i>
WTAD 1440	Quincy, Ill., <i>CST.</i>	XEFB 1315	Monterrey, Mex., <i>CST.</i>	XEX 1210	Mexico City, Mex.
WTAG 580	Worcester, Mass., <i>EST.</i>	XEFC 1020	Merida, Mex.	XEY 546.8	Mexida, Mex.
WTAM 1070	Cleveland, Ohio, <i>EST.</i>	XEFD 1020	Tijuana, Mex.	XFB 840	Jalapa, Mex.
WTAQ 1330	Eau Claire, Wis., <i>CST.</i>	XEFE 1020	Laredo, Mex.	XFG 638.3	Mexico City, Mex.
WTAR 780	Norfolk, Va., <i>EST.</i>	XEFH 1360	Mexico City, Mex.	XFI 818.1	Mexico City, Mex.
WTAW 1120	College Station, Texas.	XEFI 1000	Chihuahua, Mex.	XFO 840	Mexico City, Mex.
WTAX 1210	Springfield, Ill., <i>CST.</i>	XEFJ 1000	Monterrey, Mex.	XFO 950	Mexico City, Mex.
WTBO 1420	Cumberland, Md., <i>EST.</i>	XEFO 940	Mexico City, Mex., <i>CST.</i>	YVIBC 950	Caracas, Venz.
WTFL 1310	Philadelphia, Pa., <i>EST.</i>	XEFS 1000	Queretaro, Mex., <i>CST.</i>	10-AB 1200	Moose Jaw, Sask., <i>MST.</i>
WTFI 1450	Athens, Ga., <i>EST.</i>	XEFV 1370	Juarez, Mex.	10-AK 1200	Stratford, Ont., <i>EST.</i>
WTIC 1060	Hartford, Conn., <i>EST.</i>	XEFW 1240	Tampico, Mex.	10-AT 1158	Trail, B. C., <i>PST</i>
WTJS 1310	Jackson, Tenn., <i>CST.</i>	XEFZ 1500	Coyoacan, Mex., <i>CST.</i>	10-BI 1200	Prince Albert, Sask., <i>MST.</i>
WTMJ 620	Milwaukee, Wis., <i>CST.</i>	XEG 1075	Mexico City, Mex.	10-BP 1199	Wingham, Ont., <i>EST.</i>
WTCB 1260	Savannah, Ga., <i>EST.</i>	XEH 1132	Monterrey, Mex., <i>CST.</i>	10-BQ 1200	Brantford, Ont., <i>EST.</i>
WTRC 1310	Elkhart, Ind., <i>CST.</i>	XEI 1310	Morelia, Mex., <i>CST.</i>	10-BU 1200	Canora, Sask.
WWAE 1200	Hammond, Ind., <i>CST.</i>	XEJ 1015	Juarez, Mex., <i>CST.</i>		
		XEK 990	Mexico City, Mex.		

The World Short Wave Stations

According to Frequencies in Megacycles (thousands of kilocycles) and Wave Lengths in Meters. For time on the air, see the list of the "100 Best Short Wave Stations" in March issue. Stations marked with an asterisk (*) will not verify.

Mega.	Meters	Call	City, State or Country	WCK	Detroit, Mich.
1.538	192.43	KGPD	San Francisco, Calif.	WMO	Highland Park, Mich.
		WEY	Boston, Mass.	WPDA	Tulare, Calif.
1.570	191.08	WPFL	Middleboro, Mass.	WPDJ	Passaic, N. J.
		WPEQ	Baton Rouge, La.	WPDX	Detroit, Mich.
		WPEW	Northampton, Mass.	WPDY	Atlanta, Ga.
1.574	190.48	KGPY	Shreveport, La.	WRDR	Groose Pt. Village, Mich.
		WMP	Framingham, Mass.	KGPB	Minneapolis, Minn.
		WRDS	East Lansing, Mich.	WPDS	St. Paul, Minn.
1.596	187.85	WCF	New York City	KGPE	Kansas City, Mo.
		WKDT	Detroit, Mich.	KGPG	Vallejo, Calif.
		WRDU	Brooklyn, N. Y.	KGZC	Topeka, Kansas
1.712	175.13	KGCP	St. Louis, Mo.	KSW	Berkeley, Calif.
		KGJX	Pasadena, Calif.	WMDJ	Buffalo, N. Y.
		KGPC	St. Louis, Mo.	WPDW	Washington, D. C.
		KGPI	Beaumont, Texas	CJW	St. John, N. B.
		KGPL	Los Angeles, Calif.	KGZD	San Diego, Calif.
		KGPR	Fort Worth, Texas	WPDI	Columbus, Ohio
		KGZB	Houston, Texas	WPDH	Dayton, Ohio
		KVP	Dallas, Texas	WPEK	New Orleans, La.
		UYR	Montreal, P. Q.	KGFP	Pearland, Ore.
		WKDU	Cincinnati, Ohio	KGFX	Denver, Colo.
		WPDB	Chicago, Ill.	KZGH	Klamath Falls, Ore.
		WPDC	Chicago, Ill.	WMDZ	Indianapolis, Ind.
		WPDD	Chicago, Ill.	WPDE	Louisville, Ky.
		WPDU	Pittsburgh, Pa.	WPDF	Flint, Mich.
		WPED	Arlington, Mass.	WPDI	Richmond, Ind.
		WPEH	Sommerville, Mass.	WPDJ	Lansing, Mich.
2.004	149.61	VE9RM	Toronto, Ont.	WPBE	Grand Rapids, Mich.
2.100	142.80	VE9OS	Montreal, Que.	WPES	Saginaw, Mich.
2.414	124.20	KGPA	Seattle, Wash.	KGPH	Oklahoma City, Okla.
		KGPS	Bakersfield, Calif.	KGPO	Tulsa, Okla.
		KGZA	Fresno, Calif.	KGPP	Honolulu, Hawaii
				2.450	122.40

WORLD SHORT WAVE STATIONS

		KGPZ	Wichita, Kans.	3.178	94.34	KFM	Sacramento, Calif.
		WPDK	Milwaukee, Wis.			KGE	Medford, Ore.
		WPEE	Brooklyn, N. Y.			KGT	Fresno, Calif.
		WPEF	Bronx, N. Y.			KQX	Bakersfield, Calif.
		WPEG	New York, N. Y.			KVO	Portland, Ore.
2.458	121.97	UYW	Winnipeg, Man.			KZJ	Seattle, Wash.
		WPDG	Youngstown, Ohio	3.189	94.01	KEU	Burbank, Calif.
		WPDN	Auburn, N. Y.	3.490	85.91	KGTF	San Diego, Calif.
		WPDO	Akron, Ohio			KGTS	Omaha, Neb.
		WDDR	Rochester, N. Y.			KGUA	El Paso, Tex.
		WPDV	Charlotte, N. C.			KGUB	Houston, Tex.
		WPEA	Syracuse, N. Y.			KGUC	Fort Worth, Tex.
2.470	121.40	WRDH	Cleveland, Ohio			KGUD	San Antonio, Tex.
		KGOZ	Cedar Rapids, Iowa			KGUE	Brownsville, Tex.
		KGPD	San Francisco, Calif.			KGUF	Dallas, Tex.
		KGPI	Omaha, Neb.			KGUG	Big Springs, Tex.
		KGPK	Sioux City, Iowa			KGUH	Waco, Tex.
		KGPN	San Jose, Calif.			KGUK	Shreveport, La.
		KGPN	Davenport, Iowa			KGUL	Abilene, Tex.
		KGPW	Salt Lake City, Utah			KGUM	Frijoles, Tex.
		KGZG	Des Moines, Iowa			KGUN	Douglas, Ariz.
		WFDZ	Philadelphia, Pa.			KGUP	Phoenix, Ariz.
		WBDT	Kokomo, Ind.			KGUQ	Indio, Calif.
		WPDZ	Fort Wayne, Ind.			KGUR	Burbank, Calif.
		WPEC	Memphis, Tenn.			KGUS	Blythe, Calif.
		WPEM	Woonsocket, R. I.			KGUT	Robertson, Mo.
		WPEY	Chattanooga, Tenn.			KGUU	Little Rock, Ark.
		WRDQ	Toledo, Ohio			WAEJ	Springfield, Ill.
2.502	119.83	KGPY	Des Moines, Iowa			WQDP	Atlanta, Ga.
2.506	119.64	KGZE	San Antonio, Tex.			WQDQ	New Orleans, La.
2.589	115.80	WOU	Green Harbor, Mass.			WSDB	Jackson, Miss.
2.735	109.62	YEPJ	London, Ont.			WSDE	Tuscaloosa, Ala.
3.100	96.72	KGPL	Kingman, Ariz.			WSDF	Louisville, Ky.
		KGSC	Oklahoma City, Okla.			WSDG	Chicago, Ill.
		KGTD	Wichita, Kans.			WSDH	Nashville, Tenn.
		KG TJ	Las Vegas, Nev.			WSDI	Cincinnati, Ohio
		KG TN	Las Vegas, Nev.			WSDK	Memphis, Tenn.
		KG TQ	Springfield, Mo.			WSDP	Columbus, Ohio
		KG TR	St. Louis, Mo.			WSDZ	Indianapolis, Ind.
		KSI	Los Angeles, Calif.	3.750	79.95	I3RO	Rome, Italy
		KST	Kansas City, Mo.	4.095	73.21	*WND	Hialeah, Fla.
		KSW	Amarillo, Tex.	4.105	73.03	NAA	Arlington, Va.
		KSX	Albuquerque, N. M.	4.129	72.60	WEEB	Baltimore, Md.
		KSY	Tulsa, Okla.			WEEC	Charleston, S. C.
		WAEA	Indianapolis, Ind.			WEEF	Spartansburg, S. C.
		WAEB	Columbus, Ohio			WEEG	Greensboro, N. C.
		WAEC	Pittsburgh, Pa.			WEEJ	Jacksonville, Fla.
		WAED	Harrisburg, Pa.			WEEM	Miami, Fla.
		WAEE	Camden, N. J.			WEEO	Orlando, Fla.
		WAEF	Newark, N. J.			WEER	Richmond, Va.
		WHG	Columbus, Ohio	4.174	71.82	GDLJ	S.S. Homeric
		WHM	Indianapolis, Ind.			GFVW	S.S. Majestic
3.170	94.58	KDD	Pasco, Wash.			GKFY	S.S. Minnetonka
		KFO	Oakland, Calif.			GLSQ	S.S. Olympic
		KGQZ	San Diego, Calif.			GMBJ	S.S. Empress of Britain
		KGTE	Wichita, Kans.			GMJQ	S.S. Belgenland
		KJE	Reno, Nev.			*VTSX	S.S. Monarch of Bermuda
		KKO	Elko, Nev.			*WSBN	S.S. Leviathan
		KMP	Omaha, Neb.			DDAC	S.S. Europa
		KMR	No. Platte, Neb.			DDAS	S.S. Breinen
		KNAS	Kansas City, Mo.			DDBR	S.S. Berlin
		KNAT	Dallas, Tex.			DDCB	S.S. Columbus
		KNAV	Oklahoma City, Okla.			DDCG	S.S. Resolute
		KOE	Cheyenne, Wyo.			DDCP	S.S. Cap Polonio
		KQC	Rock Springs, Wyo.			DDDT	S.S. Deutschland
		KQD	Salt Lake City, Utah			DDDX	S.S. Hamburg
		KQE	Cheyenne, Wyo.			DDEA	S.S. Cap Arcona
		KQK	Bakersfield, Calif.			DDED	S.S. New York
		KQM	Des Moines, Iowa			DDFF	S.S. Reliance
		KQQ	Iowa City, Iowa			DDFT	S.S. Oceana
		KRA	Boise, Idaho	4.273	70.65	DDNY	S.S. Albert Ballin
		KRD	Redding, Calif.	4.272	70.17	RW15	Khabarovsk, U.S.S.R.
		KRF	Lincoln, Neb.	4.283	70.00	*W1R	Rocky Point, N. Y.
		WNAK	Cleveland, Ohio			IBEJ	S.S. Conte Rosso
		WNAL	Brooksville, Pa.			ICEJ	S.S. Rex
		WNAM	Bellefonte, Pa.	4.307	69.60	IDLJ	S.S. Conte di Savoia
		WQDU	Aurora, Ill.	4.467	67.11	WTDV	St. Thomas, V. I.
		WUCG	Chicago, Ill.	4.508	66.50	Y1D	Bagdad, Iraq
						VPN	Nassau, Bahamas

WORLD SHORT WAVE STATIONS

4.748	63.13	*WOO	Ocean Gate, N. J.			KGUG	Big Springs, Tex.
4.782	62.70	CGA	Drummondville, Que.			KGUH	Waco, Tex.
		W9XAM	Elgin, Ill.			KGUK	Shreveport, La.
4.797	62.50	W2XV	Long Island City, N. Y.			KGUL	Abilene, Tex.
4.975	60.27	GBC	Rugby, England			KGUM	Frijole, Tex.
5.045	59.42	*VRT-ZFA	Hamilton, Bermuda			KGUN	Douglas, Ariz.
5.143	58.30	PMY	Bandoeng, Java			KGUP	Phoenix, Ariz.
5.169	58.00	OKIMPI	Prague, Czechoslovakia			KGUQ	Indio, Calif.
5.257	57.03	*WQN	Rocky Point, N. Y.			KGUR	Burbank, Calif.
5.373	55.80	KNWA	St. Paul, Minn.			KGUS	Blythe, Calif.
		KNWB	Fargo, N. D.			KGUT	Robertson, Mo.
		WAEH	Milwaukee, Wis.			KGUU	Little Rock, Ark.
		WSDL	Duluth, Minn.			WAEJ	Springfield, Ill.
		WSDR	Madison, Wis.			WQDP	Atlanta, Ga.
		WSDS	Chicago, Ill.			WQDQ	New Orleans, La.
411	55.40	KGJW	Brownsville, Tex.			WSDB	Jackson, Miss.
		WKDL	Miami, Fla.			WSDP	Tuscaloosa, Ala.
		WMDU	San Juan, P. R.			WSDF	Louisville, Ky.
5.560	53.92	KGFL	Kingman, Ariz.			WSFG	Chicago, Ill.
		KGSC	Oklahoma City, Okla.			WSDH	Nashville, Tenn.
		KGTD	Wichita, Kans.			WSDI	Cincinnati, Ohio
		KG TJ	Las Vegas, Nev.			WSDK	Memphis, Tenn.
		KG TN	Las Vegas, Nev.			WSDP	Columbus, Ohio
		KG TR	Springfield, Mo.			WSDZ	Indianapolis, Ind.
		KGTR	St. Louis, Mo.	5.649	53.07	WEEB	Baltimore, Md.
		KSI	Los Angeles, Calif.			WEEC	Charleston, S. C.
		KST	Kansas City, Mo.			WEEF	Spartansburg, S. C.
		KSW	Amarillo, Tex.			WEEG	Greenboro, N. C.
		KSX	Albuquerque N. M.			WEEJ	Jacksonville, Fla.
		KSY	Tulsa, Okla.			WEEM	Miami, Fla.
		WAEA	Indianapolis, Ind.			WEO	Orlando, Fla.
		WABE	Columbus, Ohio			WEER	Richmond, Va.
		WAEC	Pittsburgh, Pa.	5.657	53.00	KEU	Burbank, Calif.
		WAED	Harrisburg, Pa.			KFM	Sacramento, Calif.
		WAEE	Camden, N. J.			KGE	Medford, Ore.
		WAEF	Newark, N. J.			KGT	Fresno, Calif.
		WAEG	Cresson, Pa.			KQX	Bakersfield, Calif.
		WHG	Columbus, Ohio			KVO	Portland, Ore.
		WHM	Indianapolis, Ind.			KZI	Seattle, Wash.
5.680	53.54	KDD	Paseo, Wash.			WSDC	Newark, N. J.
		KFO	Oakland, Calif.			WSDM	Albany, N. Y.
		KGQZ	San Diego, Calif.			WSDO	Buffalo, N. Y.
		KGTE	Wichita, Kans.			WSDQ	Cleveland, Ohio
		KJE	Reno, Nev.	5.678	52.80	VK3LR	Melbourne, Australia
		KKO	Elko, Nev.	5.689	62.70	FIUJ	Tananarive, Madagascar
		KMP	Omaha, Neb.	5.766	52.00	XAM	Merida, Yucatan
		KMR	No. Platte, Neb.	5.868	51.09	*WNB	Lawrenceville, N. J.
		KNAS	Kansas City, Mo.	5.879	51.00	HKB	Tunja, Colombia
		KNAT	Dallas, Tex.			*XDA	Mexico City, Mex.
		KNAV	Oklahoma City, Okla.	5.925	50.60	HJ4ABE	Medellin, Colombia
		KOE	Cheyenne, Wyo.	5.968	50.26	HVJ	Vatican City, Rome
		KQC	Rock Springs, Wyo.	5.996	50.00	HJ1ABB	Barranquilla, Colombia
		KQD	Salt Lake City, Utah			RV59	Moscow, U.S.S.R.
		KQE	Cheyenne, Wyo.			ZGE	Kuala Lumpur, Malay
		KQK	Bakersfield, Calif.	6.000	49.97	EAJ25	Barcelona, Spain
		KQM	Des Moines, Iowa			VY2BC	Caracas, Venezuela
		KQQ	Iowa City, Iowa			ZL3ZC	Christchurch, N. Z.
		KRA	Boise, Idaho	25-6.005	49.93	VE9DR	Bucharest, Roumania
		KRD	Redding, Calif.	25 7/8-6.020	49.80	DJC	Montreal, P. Q.
		KRF	Lincoln, Neb.	6.036	49.67	*W4XB	Konigs Wusterhausen, Ger.
		WNAK	Cleveland, Ohio	6.040	49.64	W1XAL	Miami, Fla.
		WNAL	Brooksville, Pa.	25 1/2-6.050	49.56	GSA	Boston, Mass.
		WNAM	Bellefonte, Pa.	6.057	49.50	CMCI	Davenport, England
		WQDU	Aurora, Ill.			ZL2ZX	Havana, Cuba
		WUCG	Chicago, Ill.			W3XAU	Wellington, N. Z.
5.609	53.45	KGTV	Beaumont, Calif.	6.060	49.48	W8XAL	Philadelphia, Pa.
		KGUO	Tucson, Ariz.			VQ7LO	Cincinnati, Ohio
		WAFK	Mobile, Ala.	6.065	49.44	SAJ	Nairobi, Kenya, Africa
		WSDD	Boston, Mass.	6.070	49.39	VE9CS	Motala, Sweden
5.630	53.25	KGTF	San Diego, Calif.	6.072	49.37	UOR2	Vancouver, B. C.
		KGTS	Omaha, Neb.	6.076	49.34	W9XAA	Vienna, Austria
		KGUA	El Paso, Tex.	6.090	49.23	VE9BJ	Chicago, Ill.
		KGUB	Houston, Tex.	6.094	49.20	JB	St. John, N. B.
		KGUC	Fort Worth, Tex.	6.095	49.19	W9XF	Johannesburg, So. Africa
		KGUD	San Antonio, Tex.	6.096	49.18	W3XAL	Chicago, Ill.
		KGUE	Brownsville, Tex.	6.110	49.07	VUC	Boundbrook, N. J.
		KGUF	Dallas, Tex.	6.116	49.02	W2XE	Caleutta, Ind a
							Wayne, N. J.

WORLD SHORT WAVE STATIONS

6.119	49.00	YV1BC	Caracas, Venezuela	8.562	35.02	*WOO	Ocean Gate, N. J.
6.121	48.98	VE9HX	Halifax, N. S.	8.566	35.00	IREJ	S.S. Conte Rosso
6.125	48.95	YV11BMO	Maracaibo, Venezuela			ICEJ	S.S. Rex
6.140	48.83	W8XK	E. Pittsburgh, Pa.			IDL1	S.S. Conte di Savoia
6.150	48.75	VE9CL	Winnipeg, Man.	8.646	34.56	GBC	Rugby, England
6.220	48.20	I2RO	Rome, Italy	8.690	34.50	W2XAC	Schenectady, N. Y.
6.220	47.97	CN8MC	Casablanca, Morocco	8.830	33.95	GDLJ	S.S. Homeric
6.335	47.33	VE9AP	Drummondville, Que.			GFVW	S.S. Mjestic
6.378	47.00	HKS	Cali, Columbia			GKPY	S.S. Minnetonka
		HC1DR	Quito, Ecuador			GLSQ	S.S. Olympic
6.386	46.96	W3XL	Boundbrook, N. J.			GMBJ	S.S. Empress of Britain
6.430	46.63	PCM	The Hague, Holland			GMJQ	S.S. Belgenland
6.480	46.27	TGW	Guatamala City, Guatemala			*VTSX	S.S. Monarch of Bermuda
6.611	45.35	REN	Moscow, U.S.S.R.			WSBN	S.S. Leviathan
6.618	45.31	PRADO	Riobamba, Ecuador	8.872	33.79	NAA	Arlington, Va.
6.648	45.09	IAC	Coltana, Italy	8.025	33.59	NPO	Cavite, Manila, Ph. Is.
		XFD	Mexico City, Mex.	8.945	33.52	*WEC	Rocky Point, N. Y.
6.675	44.91	DGK	Nauen, Germany			*WEL	
6.705	44.71	*WER	Rocky Point, N. Y.	8.950	33.50	*W2XBJ	Rocky Point, N. Y.
6.720	44.61	*WQO	Rocky Point, N. Y.	8.902	33.27	TXG	Guatemala City, Guatemala
6.732	44.54	*WJ-		9.012	33.27	KEJ	Bolinas, Calif.
		*W2XBJ	Rocky Point, N. Y.	9.014	33.27	GSC	Rugby, England
6.752	44.41	*WOA	Lawrenceville, N. J.	9.091	32.97	XFD	Mexico City, Mex.
		*WOB	Lawrenceville, N. J.	9.104	32.93	LST	Olivos, Argentina
6.791	44.15	GDB	Rugby, England	9.162	32.72	*WNA	Lawrenceville, N. J.
6.840	43.82	CFA	Drummondville, Que.	9.168	32.70	*YVR	Maraca, Venezuela
6.860	43.71	*KEL	Bolinas, Calif.	-9.273	32.33	GCB	Rugby, England
6.888	43.54	*KEQ	Kahuku, Hawaii	9.290	32.27	CGA	Rabat, Morocco
6.900	43.45	IMA	Roma, Italy	-9.340	32.10	CT3AQ	Drummondville, Que.
		GDS	Rugby, England	9.370	32.00	XDA	Funchel, Madeira
6.924	43.30	*WJZ	Rocky Point, N. Y.	9.375	31.97	PLV	Mexico City, Mex.
7.105	42.20	HKN	Nedelin, Colombia	9.410	31.86	*WES	Bandoeng, Java
7.122	42.10	HKK	Cali, Colombia	9.448	31.74	*W2XBJ	Rocky Point, N. Y.
7.139	42.00	HJ4ABB	Manizales, Colombia	9.455	31.71	*WKJ	Rocky Point, N. Y.
7.184	41.75	CM2MK	Havana, Cuba	9.480	31.63	PLW	Bandoeng, Java
7.195	41.67	VK6AG	Perth, Australia	9.488	31.60	*WEE	
		V51AB	Singapore, Straits Settlement			*W2BJ	Rocky Point, N. Y.
7.207	41.60	EAR58	Teneriffe, Canary Islands	9.492	31.58	PRBA	Rio de Janeiro, Brazil
7.312	41.00	CM5RY	Matanzas, Cuba	9.500	31.56	YV3BC	Caracas, Venezuela
7.384	40.60	ZLT	Wellington, N. Z.	9.503	31.55	VK3ME	Melbourne, Australia
7.396	40.54	*WFM		-9.510	31.53	GSB	Daventry, England
		*W2XBJ	Rocky Point, N. Y.	-9.520	31.49	OXY	Copenhagen, Denmark
7.402	40.50	HK1	Bogota, Colombia	-9.530	31.46	DJA	Schenectady, N. Y.
7.410	40.46	*WFG	Rocky Point, N. Y.	-9.552	31.38	W1XAZ	Zeesen, Germany
7.465	40.16	*HJB	Bogota, Columbia	-9.560	31.36	SRI	Springfield, Mass.
7.501	39.97	RK1	Moscow, U.S.S.R.	9.570	31.33	HLB	Poznan, Poland
7.518	39.89	*KDK-		9.580	31.30	GSC	Geneva, Switzerland
		*KKH	Kahuku, Hawaii	9.585	31.28	VK2ME	Daventry, England
7.550	39.71	CGE	Calgary, Alta.			W3XAU	Sydney, Australia
		CKS	Calgary, Alta.			CT1AA	Philadelphia, Pa.
7.562	39.65	*KWY	Dixon, Calif.	9.592	31.25	LQA	Lisbon, Portugal
7.605	39.42	*KWX	Dixon, Calif.	9.600	31.23	DGU	Buenos Aires, Argentina
7.621	39.34	RIM	Irkutsk, U.S.S.R.	9.609	31.20	T14NRH	Nauen, Germany
7.685	39.01	T1R	Cartago, Costa Rica	9.670	31.00	GCA	Heredia, Costa Rica
7.715	38.86	*KEE	Kootwijk, Calif.	9.702	30.90	*WOF	Rugby, England
7.758	38.65		Kootwijk, Holland	9.742	30.77	VK2ME-	Lawrenceville, N. J.
7.770	38.59	FTF	S. Assise, France			VLK	Sydney, Australia
7.790	38.49	HBP	Geneva, Switzerland	9.772	30.68	EAM	Madrid, Spain
7.830	38.29	PDV	Kootwijk, Holland	9.798	30.60	GCW	Rugby, England
7.876	38.07	J1AA	Kemikawa-Cho, Japan	9.840	30.47	FTI	S. Assise, France
7.940	37.76	VK2ME	Sydney, Australia	9.862	30.40	WON	Lawrenceville, N. J.
7.995	37.50	HC2JSB	Quito, Ecuador			EAQ	Madrid, Spain
8.103	37.00	HCJB	Quito, Ecuador			J1AA	Kemikawa-Cho, Japan
8.180	36.65	PSK	Rio de Janeiro, Brazil			LSA	Buenos Aires, Argentina
8.328	36.00	DDAC	S.S. Europa	9.890	30.32	LSN	Buenos Aires, Argentina
		DDAS	S.S. Bremen	9.928	30.20	*HJY	Bogota, Columbia
		DDBR	S.S. Berlin	9.942	30.15	GBU	Rugby, England
		DDCB	S.S. Columbus	9.903	30.00	LSL	Buenos Aires, Argentina
		DDCG	S.S. Resolute	10.000	29.98	SUV	Belgrade, Yugo Slavia
		DDCP	S.S. Cap Polonio	10.051	29.83	*VRT-ZFB	Cairo, Egypt
		DDDT	S.S. Deutschland	10.060	29.80	OPM	Hamilton, Bermuda
		DDDX	S.S. Hamburg	10.135	29.58	DDAC	Leopoldville, Belgian Congo.
		DDEA	S.S. Cap Arcona	10.163	29.50	DDAS	S.S. Europa
		DDED	S.S. New York			DDBR	S.S. Bremen
		DDFF	S.S. Reliance				S.S. Berlin
		DDFT	S.S. Oceana				
		DDNY	S.S. Albert Ballin				
8.464	35.42	DAF	Norden, Germany				

WORLD SHORT WAVE STATIONS

		DDCB	S.S. Columbus	13.074	22.93	JIAA	Kemikawa-Cho, Japan
		DDCG	S.S. Resolute	13.220	22.68	GDLJ	S.S. Homeric
		DDCP	S.S. Cap Polonio			GFVW	S.S. Majestic
		DDDT	S.S. Deutschland			GKPY	S.S. Minnetonka
		DDDX	S.S. Hamburg			GLSQ	S.S. Olympic
		DDEA	S.S. Cap Arcona			GMBJ	S.S. Empress of Britain
		DDED	S.S. New York			GMJQ	S.S. Belgenland
		DDFF	S.S. Reliance			*VTSX	S.S. Monarch of Bermuda
		DDFT	S.S. Oceana			WSBN	S.S. Leviathan
		DDNY	S.S. Albert Ballin	13.296	22.55	CGA	Drummondville, Que
10.212	29.35	PSH	Rio de Janeiro, Brazil	13.337	22.48	*YVQ	Maracay, Venezuela
10.250	29.25	PMN	Bandoeng, Java	13.380	22.40	*WMA	Lawrenceville, N. J.
10.285	29.15	DIQ	Zeesen, Germany	13.469	22.26	*WAJ	Rocky Point, N. Y.
10.324	29.04	ORX	Brussels, Belgium	13.591	22.06	GBB	Rugby, England
10.345	29.98	LSX	Buenos Aires, Argentina			GBC	Rugby, England
10.410	28.80	*KEZ	Bolinas, Calif.	13.671	21.93	HAS	Skékésfehevar, Hungary
		LSY	Buenos Aires, Argentina	13.690	21.90	*KKZ	Bolinas, Calif.
		PKD	Kootwijk, Holland	13.740	21.82	CGA	Drummondville, P. Q.
		PKP	Medan, Sumatra	13.776	21.77	*KKW	Dixon, Calif.
40.520	28.50	VK2ME	Sydney, Australia	13.816	21.70	SUZ	Cairo, Egypt
10.540	28.44	*WOK	Lawrenceville, N. J.	13.860	21.63	*WVY	
10.601	28.38	*WEA	Rocky Point, N. Y.			*W2XBJ	Rocky Point, N. Y.
10.664	28.12	*CEC	Santiago, Chile	13.925	21.53	*WIK	Rocky Point, N. Y.
10.761	27.86	GBP	Rugby, England	14.310	20.95	G2NM	Sonning-on-Thames, England
10.830	27.98	*KWW	Dixon, Calif.	14.450	20.75	GBW	Rugby, England
40.962	27.35	*OCI	Lima, Peru	14.464	20.73	*WMF	Lawrenceville, N. J.
10.980	27.30	ZLW	Wellington, N. Z.	14.480	20.70	LSN	Buenos Aires, Argentina
11.111	26.98	XFD	Mexico City, Mex.	14.545	20.69	*RXC	Panama City, Panama
11.174	26.83	CT3AQ	Funchal, Madeira	14.530	20.65	LSA	Buenos Aires, Argentina
11.187	26.80	XSM	Merida, Yucatan	14.550	20.60	HBJ	Geneva, Switzerland
11.470	26.15	IBDK	S.S. Electra	14.582	20.56	*WMN	Lawrenceville, N. J.
11.644	25.75	PIQ	Rio de Janeiro, Brazil	14.630	20.50	*XDA	Chapultepec, Mex.
11.680	25.67	*YVQ	Maracay, Venezuela	14.682	20.42	PSS	Rio de Janeiro, Brazil
		*KIO	Kahuku, Hawaii	14.706	20.27	*WKU	
11.711	25.60	VE9JR	Pontoise, France	14.930	20.08	*HJB	Rocky Point, N. Y.
		W1ZIR	Winnipeg, Man.	15.051	19.92	*WNC	Bogota, Colombia
11.725	25.57	PHOHI	Huizen, Holland	15.066	19.90	T14NRH	Hialeah, Florida
11.753	25.51	DJD	Koenigswusterhausen, Germany	15.104	19.85	RAU	Heredia, Costa Rica
		GSB	Daventry, England	15.120	19.83	HVJ	Tashkent, U.S.S.R.
11.760	25.50	*XDA	Mexico City, Mex.	15.140	19.81	GSP	Vatican City, Italy
11.790	25.42	W1XAL	Boston, Mass.	15.190	19.73	DJB	Daventry, England
11.800	25.40	I2RO	Rome, Italy	15.204	19.72	W8XK	Zeesen, Germany
11.822	25.36	W2XE	Wayne, N. J.	15.234	19.68		Pittsburgh, Pa.
				15.250	19.62	W2XE	Pontoise, France
11.870	25.27	VUC	Calcutta, British India	15.320	19.57	W2XAD	Wayne, N. J.
		GSE	Daventry, England	15.344	19.54	*KWU	Schenectady, N. Y.
11.872	25.25	W8XK	Pittsburgh, Pa.	15.410	19.46	*KWO	Dixon, Calif.
11.898	25.20		Pontoise, France	15.681	19.12	FTK	Dixon, Calif.
11.923	25.16	RW5O	Moskva Imeri Popova, USSR	15.760	19.02	JIAA	St. Assise, France
11.935	25.12	FTA	St. Assise, France	15.950	18.80	PLG	Tokyo, Japan
11.980	25.05	*KKQ	Bolinas, Calif.	16.024	18.71	*KKP	Bandoeng, Java
12.000	24.99	FZG	Saigon, Indo-China	16.060	18.66	NAA	Kahuku, Hawaii
12.045	24.89	NAA	Arlington, Va.	16.150	18.56	GBX	Arlington, Va.
		NSS	Annapolis, Md.	16.162	18.55	PSA	Rugby, England
12.150	24.68	FQO-FQE	St. Assise, France	16.200	18.51	FZR	Rio de Janeiro, Brazil
12.190	24.60	GBS	Rugby, England	17.080	17.55	GBC	Saigon, Indo-China
		GBX	Rugby, England	17.110	17.52	*WOO	Rugby, England
12.290	24.40	PLM	Bandoeng, Java	17.122	17.51	HAS	Ocean Gate, N. J.
		ZLW	Wellington, N. Z.	17.260	17.37	DAF	Skékésfehevar, Hungary
12.394	24.19	DAF	Norden, Germany	17.287	17.34	IBEJ	Norden, Germany
12.780	23.46	GBC	Rugby, England			ICEJ	S.S. Conte Rosso
12.785	23.45	IAC	Coltana, Italy			IDLI	S.S. Rex
12.820	23.38		Rabat, Morocco			DFB	S.S. Conte di Savoia
12.836	23.36	*WOO	Ocean Gate, N. J.	17.512	17.12	GDLJ	Nauen, Germany
13.040	23.00	DDAC	S.S. Europa	17.580	17.05	GFVW	S.S. Homeric
		DDAS	S.S. Bremen			GKPY	S.S. Majestic
		DDBR	S.S. Berlin			GLSQ	S.S. Minnetonka
		DDCB	S.S. Columbus			GMBJ	S.S. Olympic
		DDCG	S.S. Resolute			GMJQ	S.S. Empress of Britain
		DDCP	S.S. Cap Polonio			*VTSX	S.S. Belgenland
		DDDT	S.S. Deutschland			WSBN	S.S. Monarch of Bermuda
		DDDX	S.S. Hamburg			HSP	S.S. Leviathan
		DDEA	S.S. Cap Arcona	17.719	16.92	DJE	Bangkok, Siam
		DDED	S.S. New York	17.760	16.88	GSG	Koenigswusterhausen, Ger.
		DDFF	S.S. Reliance			PHI	Daventry, England
		DDFT	S.S. Oceana			W3XAL	Huizen, Holland
		DDNY	S.S. Albert Ballin	17.772	16.87		Bound Brook, N. J.

17.780	16.86	W8XK	Pittsburgh, Pa.	19.282	15.55	FTM	St. Assise, France
17.830	16.82	PCV	Kootwijk, Holland	19.400	15.45	FRO-FRE	St. Assise, France
17.850	16.80	W2XAO	New Brunswick, N. J.	19.460	15.40	FZU	Tamalore, Madagascar
		PLF	Bandoeng, Java	19.678	15.24	*CEC	Santiago, Chile
17.894	16.76	*WLL	Rocky Point, N. Y.	19.684	15.23	EAQ	Madrid, Spain
18.000	16.67	*KQJ	Bolinas, Calif.	19.816	15.13	*WKN	Lawrenceville, N. J.
18.105	16.56	W9XAA	Chicago, Ill.	19.830	15.12	FTD	St. Assise, France
18.170	16.50	CGA	Drummondville, Que.	19.895	15.07	LSG	Buenos Aires, Argentina
		PMC	Bandoeng, Java	19.950	15.03	DIH	Nauen, Germany
18.193	16.48	GAW	Rugby, England	20.028	14.97	DHO	Nauen, Germany
18.240	16.44	FRO-FRE	St. Assise, France			OPL	Leopoldville, Belgian Congo
		FTE	St. Assise, France	20.140	14.88	DWG	Nauen, Germany
18.296	16.39	*YVQ	Marsay, Venezuela	20.400	14.70	GBA	Rugby, England
18.310	16.38	FZS	Saigon, Indo-China	20.600	14.55	PMB	Bandoeng, Java
		GAS	Rugby, England	20.680	14.50	FSR	Paris-Saigon, Indo-China
18.340	16.35	*WLA	Lawrenceville, N. J.			LSN	Monte Grande, Argentina
		ZLW	Wellington, N. Z.			LSX	Buenos Aires, Argentina
18.365	16.32	FZA	Saigon, Indo-China	20.710	14.47	LSY	Buenos Aires, Argentina
18.400	16.29	PCK	Kootwijk, Holland	21.000	14.28	OKI	Podebrady, Czechoslovakia
18.444	16.25	*HIJ	Bogota, Colombia	21.020	14.27	LSN	Buenos Aires, Argentina
18.600	16.12	PDM	Kootwijk, Holland	21.054	14.24	*WKA	Lawrenceville, N. J.
18.620	16.10	GBJ	Bodmin, England	21.069	14.23	PSA	Rio de Janeiro, Brazil
		GAU	Rugby, England	21.129	14.19	LSM	Buenos Aires, Argentina
18.670	16.06	*OCI	Lima, Peru	21.400	14.01	*WKK	Lawrenceville, N. J.
18.820	15.93	PLE	Bandoeng, Java	21.420	14.00	W2XDJ	Deal, N. J.
18.856	15.90	ZSS	Capetown, S. Africa	21.470	13.96	GSH	Daventry, England
18.892	15.87	*WDS	Rocky Point, N. Y.	21.540	13.92	W8XK	Pittsburgh, Pa.
18.958	15.82	*LSR	Buenos Aires, Argentina	22.291	13.45	GBU	Rugby, England
18.963	15.81	GAG	Rugby, England	29.803	10.06	IAF	Fiumicino, Italy
19.012	15.77	*WKW-		30.593	9.80	IAG	Golfo Aranci, Sardinia
		*W2XBJ	Rocky Point, N. Y.	31.000	9.67	W8XI	Pittsburgh, Pa.
19.121	15.68	LSM	Buenos Aires, Argentina	34.600	8.67	W2XB	New Brunswick, N. J.
19.194	15.62	ORG	Brussels, Belgium	42.530	7.05		Berlin, Germany
19.207	15.61	*WKF	Lawrenceville, N. J.	51.400	5.83	W2XBC	New Brunswick, N. J.
19.240	15.58	DFA	Nauen, Germany	51.724	5.79	RW6I	Moskva Vei, U.S.S.R.
19.270	15.57	PPU	Rio de Janeiro, Brazil	59.964	5.00	PK4PA	Palembang, Sumatra

The Hundred Best S. W. Stations by Calls . . .

British Ships	P	DJD	Zeessen, Germany	B	GSB	Daventry, England	B
13.219	22.68		11.753 25.51		9.510	31.53	Broadcasts for South Africa 1:00-3:00 p.m.; West Africa 3:00-5:30 p. m.; Canada 8-10 p. m.
8.831	33.95			B			
4.174	71.82						
CEC Santiago, Chile	P	DJE	Zeessen, Germany				
19.678	15.24	11 a.m.-4 p.m.	17.761 16.88				
CGA Drummondville, Que.	P	-EAQ	Madrid, Spain	B	GSC	Daventry, England	B
13.286	22.55	9 a.m. to 2 p.m.	9.862 30.40	5:30-7 p.m.; Sat. 1-3 p.m.	9.585	31.28	
CMCI Havana, Cuba	B		19.684 15.23	Phones	GSD	Daventry, England	B
6.057	49.50	9 p.m.-11 p.m.			11.750	25.51	Broadcasts for Australasia 4:30-6:30 a.m.; 1:00-3:00 p. m.; 3:30-5:30 p.m.
CM5RY Matanzas, Cuba	B	FTM	St. Assise, France	P	GSE	Daventry, England	B
7.312	41.03	S a t . 10:45-11:30 p.m.	19.282 15.55	10 a.m.-2 p.m.	11.865	25.27	Broadcasts for India 9:30-11:30 a.m.
CNR Rabat, Morocco	P	FZS	Saigon, Indo-China	P	GSF	Daventry, England	B
12.820	23.38		12.000 24.98	9-10 a.m.	15.140	19.81	
CT1AA Lisbon, Portugal	B	German Ships			GSG	Daventry, England	B
9.592	31.25	Tues.-Fri. 5-7 p.m.	13.035 23.00		17.770	16.90	Broadcasts for India 9:30-11:30 a.m.
CT3AQ Funchal, Madeira	B		10.163 29.50		GSH	Daventry, England	B
11.174	26.83	Tues.-Thur. 5-6:30 p.m.; Sun. 10:30-noon	8.328 36.00		HBJ	Geneva, Switzerland	P
DAF Norden, Germany	P	GBB	Rugby, England	P	14.550	20.60	
17.260	17.37	Talks to Ships	12.780 17.55		HBL	Geneva, Switzerland	B
12.394	24.19				9.580	31.30	Sun. 5-5:45 p.m.
8.464	35.42				HBP	Geneva, Switzerland	B
DFB Nauen, Germany	P	GBC	Rugby, England	P	7.790	38.49	Sun. 5-5:45 p.m.
17.512	17.12	Phones YVQ	12.780 23.46		HCJB	Quito, Ecuador	B
DGK Nauen, Germany	P	GBW	Rugby, England	P	8.103	37.0	7:30-9:45 p.m.; except Monday
6.675	44.91		14.450 20.75	6 a.m.-6 p.m.	HJB	Bogota, Colombia	P
DHO Nauen, Germany	P	GBX	Rugby, England	P	14.930	20.08	
20.028	14.97		16.150 18.56	4 p.m.-11 p.m.	HJY	Bogota, Colombia	P
DIQ Nauen, Germany	B	GSA	Daventry, England	B	9.928	30.20	
10.246	29.26		6.050 49.56	Broadcasts for South Africa 1:00-3:00 p.m.; West Africa 3:30-5:30 p.m.; Canada 8-10 p.m.	18.444	16.25	11 a.m.-4 p.m.
DJA Zeessen, Germany	B						
9.552	31.38	2 p.m.-6:30					
DJB Zeessen, Germany	B						
15.190	19.73	8 a.m.-noon					

HJ1ABB	Barranquilla, Colombia	B	5.996	50.0	8-10 p.m.	PLW	Bandoeng, Java	P	9.480	31.63	VRT-ZFB	Hamilton, Bermuda	P	10.060	29.80				
HJ4ABB	Manizales, Colombia	B	7.139	42.00	Sat. 10 p.m.-mid.	PMC	Bandoeng, Java	P	18.170	16.50	3:30-9 a.m.	WKA	Lawrenceville, N. J.	P	21.054	14.24	8 a.m.-4 p.m.		
HJ4ABE	Medellin, Colombia	B	5.925	50.60	Mon., Wed., Fri., 7:30-10:30 p.m.; Tues., Thurs., Sat. and Sun., 6-8 p.m.	Pon-toise	France	B	15.234	19.68	8-11 a.m.	WKK	Lawrenceville, N. J.	P	21.400	14.01	8 a.m.-4 p.m.		
HVJ	Vatican City	B	15.120	19.83	5-5:15 a.m.	PPU	Rio de Janeiro, Brazil	P	11.898	25.20	11:30 a.m.-2:30 p.m.	WNC	Hialeah, Florida	P	15.051	19.92	Phones Pan-American stations		
IAC	Coltao, Italy	P	6.648	45.10		PRADO	Riobamba, Ecuador	B	11.710	25.60	4-7 p.m.	WOO	Ocean Gate, N. J.	P	12.839	23.36	Phones Ships		
I2RO	Rome, Italy	B	11.800	25.40	11 a.m.-12:30 p.m.; 2:30-5:30 p.m.	PSA	Rio de Janeiro, Brazil	P	12.069	14.23	8 a.m.	W1XAL	Boston, Mass.	B	6.040	49.64	Irregular		
Italian Ships			8.566	35.00		PSH	Rio de Janeiro, Brazil	P	10.212	29.35		W1XAZ	Springfield, Mass.	B	9.560	31.36	7:00 a.m.-1:00 a.m.		
J1AA	Kemikawa-Cho, Japan	B	4.283	70.00		PSS	Rio de Janeiro, Brazil	P	14.682	20.42	5-6 p.m.	W2XAD	Schenectady, N. Y.	B	15.320	19.57	Daily 1-3 p.m.; Sat., Sun. to 4.		
J1AA	Kemikawa-Cho, Japan	B	9.862	30.40	5-00:7:45 a.m.	Rabat	Morocco		9.290	32.27	Sun., 3-5 p.m.	W2XAF	Schenectady, N. Y.	B	9.530	31.46	Daily, 7-11 p.m.		
J1AA	Kemikawa-Cho, Japan	B	13.074	22.93	Phones	RAU	Tashkent, USSR		15.104	19.85	Phones Moscow	W3XAL	Boundbrook, N. J.	B	6.096	49.17	Sat. 4:30 p.m.-1 a.m.		
J1AA	Kemikawa-Cho, Japan	B	15.760	19.02	Phones	RV-15	Khabarovsk, USSR		4.273	70.65	3-9 a.m.	W3XAL	Boundbrook, N. J.	B	17.772	16.87	8 a.m.-4 p.m.		
KDK-KKH	Kahuku, Hawaii	P	7.518	39.89	9 p.m.-2 a.m.	RV59	Moscow, USSR	B	5.996	50.0	3-7 p.m.	W3XAU	Philadelphia, Pa.	B	9.585	31.28	Irregular		
KEJ	Bolinas, Calif.	P	9.012	33.27		RXC	Panama City, Panama		14.485	20.69		W4XB	Miami, Fla.	B	6.036	49.67			
KKP	Kahuku, Hawaii	P	18.024	18.71		SR-1	Poznan, Poland		9.570	31.33	Tues., 6-8 a.m.	W8XAL	Cincinnati, Ohio	B	6.060	49.48	Relays WLW 6 a.m.-10:30 a.m.; 1:30-3:30 p.m.; 7 p.m.-1:30 a.m.		
KWO	Dixon, Calif.	P	15.410	19.46	2-5 p.m.	SUZ	Cairo, Egypt	P	13.816	21.70	7 a.m.-3:30 p.m.	W8XK	Pittsburgh, Pa.	B	6.140	48.83	Relays KDKA 4-11 p.m.		
KWV	Dixon, Calif.	P	10.830	27.68		VE9AP	Drummondville, Que.	B	6.335	47.35		11.872	25.25	15.204	19.72	Relays KDKA 9 a.m.-4 p.m.			
LSG	Buenos Aires, Arg.	P	19.895	15.07	10:30 a.m.-3:30 p.m.	VE9BJ	St. John, N. B.	B	6.090	49.23	5 p.m.-11 p.m.	W9XAA	Chicago, Ill.	B	6.076	49.34	Sun. 11 a.m.-9 p.m.		
LSN	Buenos Aires, Arg.	P	9.895	30.30	6 p.m.-6 a.m.	VE9CI	London, Ont.	B	2.735	109.62	Daily 9-11 p.m.; Sun. 11 a.m.-7 p.m.	W9XF	Chicago, Ill.	B	6.095	48.18	4:30-8 p.m.; 9:30-2 a.m.		
LSR	Buenos Aires, Arg.	P	21.020	14.27	8 a.m.-4 p.m.	VE9CS	Vancouver, B. C.	B	6.070	49.39	Daily, 8-10 p.m.	XAM	Merida, Yucatan	P	5.766	52.00	11.530	26.00	
LSY	Buenos Aires, Arg.	P	20.820	14.40		VE9DR	Drummondville, Que.	B	6.005	49.93	7:30 a.m.-mid.; Sun., noon to 11:15 p.m.	XDA	Mexico City	P	5.879	51.00	11.760	25.50	
OCI	Lima, Peru	P	18.670	16.06	2 p.m.	VE9JR	Winnipeg, Man.		11.710	25.60	Tues. 6:30-8:30 p.m. Fri. to 9	YVQ	Maracay, Venezuela	P	13.278	22.58	11.680	25.67	5-7 p.m.
OPM	Leopoldville, B. Congo	P	10.090	29.70		VK2ME	Sydney, Australia	B	9.585	31.28	Sun. 1-3 a.m.; 5-9 a.m.; 9:30-11 a.m.	YV1BC	Caracas, Venz.	B	5.119	49.00	Relays 960 kcs.; 10:30 a.m.-1 p.m.; 5:15-10 p.m.		
ORK	Brussels, Belgium	P	10.340	28.99		VK3ME	Melbourne, Australia	B	9.503	31.55	Wed. 5-6:30 a.m.; Sat. 5-7 a.m.	YV1BMO	Maracaibo, Venz.	B	6.125	48.95	8-11 p.m.		
OXY	Skamleback, Denmark	B	9.520	31.49	2-6:30 p.m.	VPN	Nassau, Bahamas	P	4.508	66.50	Phones WNC								
PCK	Kootwijk, Holland	P	18.400	16.29		VQ7LO	Nairobi, Kenya	B	6.060	49.48	Daily 11 a.m.-3:30 p.m.; Tues. 3-4 a.m.; Thur. 8-9 a.m.								
PCV	Kootwijk, Holland	P	17.830	16.82	6-9 a.m.	VRT-ZFA	Hamilton, Bermuda	P	5.045	59.42									
PHI	Huizen, Holland	B	17.761	16.88	Irregular														
PHOH1	Huizen, Holland	B	11.725	25.57															
PLE	Bandoeng, Java	P	18.820	15.93	Tues., Fri., 5:40-10:40 a.m.														

Helpful Advice

(Continued from page 11)

changed radio frequency to the broadcast receiver in the same way a broadcast signal is carried into the set from the antenna. Headphones may be used on the Philco broadcast receiver to listen to the short-wave signals supplied by the converter.

“RADEX is compact, complete, convenient and correct” alliterates A. C. Spear, 1825 Hamlin St., N. E., Washington, D. C.

Using A Microphone

I have tried to attach a microphone to a model 931 Sparton broadcast receiver without results except a severe shock and the detuning of the set. Please tell me how to use the microphone.

The shock and detuning of the set came from crossing with some plate circuit having high potential, and detuning was caused by changing a grid circuit through improper attachment.

The small microphones usually come fitted with a wafer adapter to be slipped beneath the second detector tube for connection between the grid and cathode, or in the grid circuit.

The best results are obtained by using the microphone with an input transformer and external battery. Connect the microphone in series with a single dry cell and the primary coil of a small audio transformer. The secondary coil should then be placed in the grid circuit return by opening that lead between the bottom of the grid coil and the cathode of the detector tube. The volume control is turned down to stop all broadcast reception. Turn up the volume control to bring back broadcasting. It may be necessary to use a small switch across the secondary coil of the transformer to short circuit it when the microphone is being used to prevent any chances of detuning the circuit.

Larger Speaker

After changing the -45s and -27s in my radio set to -47s and 56s, I find that the volume of sound is about doubled. This now gives some trouble because of the small speaker (8-inch) and I wish to know whether I can use a larger speaker.

This additional volume appears to be too much for the 8-inch speaker. You can replace it with a 10-inch dynamic speaker provided it will fit into your cabinet space. The 10-inch speaker will be approximately 10½ inches in diameter and nearly one inch deeper than the 8-inch speaker. You must procure a speaker having an input transformer for two -47s in push-pull, and a field resistance of 2,500 ohms.

Choking And Fading

I have a model 91 Philco which appears to choke up and fade at times. Do you think the new tubes will help? This trouble seems a serious matter and hardly caused by station interference

Sometimes these symptoms are due to heterodyne action effects between

stations. But serious fading and choking of signals in the receiver frequently is due to broken down coupling condensers in the audio amplifier. A defective grid resistor in the audio system would cause similar trouble if one has broken open at some place in the circuit. A defective plate resistor will have the same effect on the operation of the receiver. We advise testing all grid and plate resistors in the set, and replace those showing incorrect values or open circuits.

The following require particular attention: Locate from the manufacturer's diagram accompanying the set, resistors numbers 3, 26, 38 and 43 (all of 1,000,000 ohms); No. 32 (99,000 ohms); No. 39 (490,000 ohms); numbers 40 and 41 (25,000 ohms each); and No. 14 (1,000 ohms). Trouble may appear in the condensers, particularly numbers 6, 24, 13, 35 and 42.

Philco 91 employs 6.3-volt tubes and, therefore, the new 50 series cannot be substituted because of the difference in filament voltages. This circuit, with tubes, is efficient, and there could be no gain in changing tubes. Tubes are not causing the trouble you are experiencing.

Telephone Adapter On Scott

Please tell me how to use an ICA headphone adapter on my Scott all-wave set.

See the article in the February issue of RADEX. The adapter may be inserted into the second detector—a -27 tube, which must be removed. This connects the phones between the grid input of the -27 tube and the filament side. Two adapters, placed in the -45 push-pull sockets with phones and tips in series, will give maximum volume. Or one adapter may be used with the remaining -45 tube removed to quiet the speaker.

Hum In Philco 87

My Philco, model 87 receiver, has a steady hum between 1000 and 1190 kilocycles which drowns out all recep-

tion on that portion of the dial. While a power line is a long distance away, I do not see how that can cause the trouble, and hope you can advise me what to do.

Usually man-made static affects all settings of the dial equally. Such is not always the case as there is an effect known as tunable hum or tunable interference. Sometimes it is caused by internal conditions such as dust on some part of the condenser plates, or the shaft of the condensers may make poor contact at some positions of the dial.

Your location may have something to do with this trouble. The fact that a power line is some distance off may make little difference. Again, a heterodyne effect between two nearby powerful stations may influence your locality. You can ascertain whether or not this noise is in the receiver by removing the antenna. If the hum interference reduces in the same proportion as the signal intensity it obviously is outside interference. If there is no change it is in the set. In this latter case we advise that you have the neutralization and tuning of the circuits checked. The facts given by you do not permit of a complete analysis, but we suggest that the above points be carefully checked.

Distortion Troubles

When the automatic volume control of my ten-tube Crosley set goes into action there is a very disagreeable form of distortion. I hope you can help me out and tell me why this is and what must be done to remedy the mushy distortion.

Some distortion of this type is characteristic when two stations are operating on almost the same frequency. When the station being received fades away badly the automatic volume control goes into action with full energy in an attempt to bring up the sound level of the fading station, but the adjacent station interference, which has not faded, or may be becoming stronger at that

moment, becomes louder and there is apt to be some heterodyne action and disagreeable distorting interference.

Other than this the action of a properly designed and adjusted automatic volume control is at all times absolutely noiseless, and the only indication that it is functioning is the disappearance of background noises when a station is approached on the dial, or the failure of the signal to exceed a certain gain in intensity. Sometimes the opening of the plate by-pass condenser of the automatic volume control tube will cause trouble, or a defective resistor filter in the grid return of the tubes controlled by the a.v.c. will show similar effects. As the serviceman's set analyzer is practically useless in searching for this trouble, it is recommended that each piece of suspicious apparatus associated with the a.v.c. tube be tested individually, but not until you have exhausted the possibilities of station heterodyne interferences as outlined in the first paragraph.

Headphones And Oscillation

I have an Atwater Kent 55 set and use headphones with adapter in one -45 socket after removing both tubes. If I turn the volume control higher to increase the signal of the station the set whistles, but as soon as the volume is cut down the station comes in. On frequencies from 1100 to 550 kilocycles I can turn the volume on full and the whistling ceases.

We believe that the oscillation occurs on the stated frequencies because it is taking place in the radio-frequency amplifier of the Atwater Kent model 55 receiver because of excessive plate voltage, excessive screen voltage, or an open cathode or screen-grid by-pass condenser. The obvious treatment is to test the two types of by-pass condensers mentioned on the -24 i.f. tubes. Also test the plate by-pass condensers between the positive end of the voltage divider and ground and the last resistance of the divider leading to the -24 cath-

odes. It does not seem possible to us that the introduction of the adapter can cause oscillation unless it is due to the removal of the two -45 power tubes and consequent unbalancing of the power from the rectifier unit.

In May Mr. Dashiell will give instructions and diagrams for building that simple short wave converter.

Reception Reports

(Continued from page 33)

JOGK, CMK, CKGW, KGBU, CJOC, WDAE, WSPA, WNAD, WMPC, WROL, WBZ, KGU, WPG and WCAU."

"In eight nights I have picked up 216 stations," reports Warren R. Davee, 222 No. Monitor St., West Point, Nebr., "16 of which are in Australia, 2 in New Zealand, 5 in Japan, 2 in Hawaii, 12 in Canada, 3 in Mexico, one in Porto Rico and one in Cuba."

"I have had 251 stations on a one-tube receiver, using a 227-tube with 90 volts on the plate," writes Herbert Chambers, 4335 Belmar Ave., Toledo, Ohio. "78 of these stations are of 250 watts and under, the farthest one being KABC, San Antonio, Texas, 1175 miles."

"I have picked up KFI night after night as early as 8:45 EST," reports Philip A. Fecher, 3027 Chesterfield Ave., Baltimore, Md. "KOA at Denver, XER, XEPN, etc., all regulars from the beginning. I use a 10-tube a.c. superhet, Sonora 1932 model."

Robert Rosenberger, 17 Janssen Place, Kansas City, Mo., has a Majestic 291 with which he is very much pleased. He reports receiving Radio Kaiserslautern, Germany, LV7, 5CK, G5GB and CMAK with a total of thirty different countries.

"Thanks to your very fine DX table," remarks E. L. Williams, 4295 W. Buena Vista Ave., Detroit, Mich., "I was able last weekend to hear KGU, Honolulu; CFBO, St. John, N.

B.; CMCY, Havana; XEJ, Juarez, and XES, Tampico."

"I have had a radio only since March, 1932," writes Robert E. Lee Hunt, 1105 Harmon Ave., Danville, Ill., "but I have logged 380 stations. I started to verify only last August and now have 260. I use a 7-tube Sentinel RCA."

"In the 13 weeks I have had my Philco Model 20, 7-tubes, I have heard 120 stations," records J. S. Goral, R 2, Box 35, Latrobe, Pa. "I have been interested in radio ever since KDKA and a few others were the only stations on the air."

"I've been logging those elusive stations since early in 1929 and to date have just passed the 500 mark," writes Henry Larent, 243 Rand St., Central Falls, R. I.

"I have every issue of RADEX since March, 1930, and wouldn't part with them for anything," writes George Nahas, 147 Seeley Street, Brooklyn, N. Y.

Field of Short Waves

(Continued from page 18)

hear from other boys of his age who tune on 75 meters.

"I just recently purchased a new Stewart-Warner all-wave set," remarks Carl S. Seigfreid, 1022 Madison Ave., Reading, Pa. "I have had the set a week and have received 15 police stations, 8XX, 1XAL, 2XAF. On the foreign s.w. band I have not done so well. I receive GSA at Davenport, England, every night in the week from 8 to 10 p.m. I also hear EAQ each night. This is all I have been able to pick up on the foreign bands. Have any owners of Stewart-Warner radios done better? I would appreciate it if other owners of this set will write to me and tell me their experiences on the short and long wave bands."

Clarence Sargent, 18 Clinton St., Dansville, N. Y., reports reception of LSN, XAM, EAQ, YV1BC, GSE, DJJ and RXC.

"I have answered several foreign

stations and sent return postage," writes R. F. Brink, E. Stroudsburg, Pa., "but I have never received a reply. Can you account for their not answering?" We cannot account for their not answering, but there are several things to be remembered in writing to foreign stations. United States stamps are of no use to them, so International Reply Coupons should be sent; these can be purchased at any post office. Furthermore, those stations receive a tremendous amount of mail every day from all parts of the world and they necessarily require considerable time for reading and answering these letters. Do not forget to ask for a verification, and most important of all, be sure to give at least a part of the program heard to prove the reception.

F. L. Naylor, Jr., 176 Argyle Place, Arlington, N. J., writes, "I picked up several stations, VE9JR, GSD, VE9DR, I2RO, GSE, EAQ and several stations in America. I think it would have been impossible to have received any of these without the aid of RADEX."

Amending The Rules

(Continued from page 7)

event.

We aren't nearly so much interested in knowing how many different calls a listener has heard since 1919 as in how many of the stations he has logged in this month's Index by Frequencies at their present location and on their present frequency. The more we consider the problem, the more we are convinced that we should leave the professional or all-time records to the radio clubs and publish in this magazine only those records composed of stations which appear in this magazine. All-time records are not fair to beginners or those who have taken up DXing in the last two or three years. They can never hope to catch up with their competitors because scores and hundreds of stations on the latter's logs have dis-

appeared never to return again.

We fear it is quite out of the question to get all clubs to agree upon a uniform set of rules as each one naturally thinks that its present rules are the right ones. We think it much simpler to make a set of rules for the guidance of this publication and then to publish those records which comply with such rules. The formulation of these rules will be given further study and our plan will be fully set forth in a future issue of this magazine. In the meantime, we welcome suggestions of our readers resulting from their consideration of this article.

The Noise Nuisance

(Continued from page 3)

inches in length and two inches in diameter. The wire used is No. 18 gage double-cotton-covered and is wound in two layers of 100 turns each over a length of five inches. The d.c. resistance of each of the coils will be less than one ohm.

The condenser arrangement requires four by-pass condensers each having a capacity of .015 microfarads at about 200 volts. They must be arranged by pairs in series and connected between the ends of the coils as shown in the diagram. The inner common terminals are connected together, and this contact must be well grounded to a *cold water* pipe with a *separate* wire. Do not use the wire that grounds the radio receiver.

A number of filter devices can be purchased at radio supply houses if the reader does not care to make one up for himself. They are very efficient and should give satisfaction. Two outstanding makes are universally in use. The Insuline Corporation of America filters come in several sizes to cover various intensities of noise sources, from the little ICA Junior, to the ICA Popular, Utility, Service and Senior models. The Tobe Deutschmann filterizer has been described at length on page 6 in the October, 1932 (No. 62) issue of RADEX.

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RADIO PROGRAMS

Time	MONDAY		TUESDAY	
	Program	Call Dial	Program	Call Dial
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6:15				
6:30				
6:45				
7:00				
7:15				
7:30				
7:45				
8:00				
8:15				
8:30				
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10:00				
10:15				
10:30				
10:45				
11:00				
11:15				
11:30				
11:45				
12:00				

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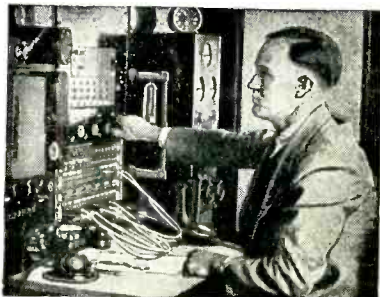
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