## THE APRIL 1933


the all-wave radio magazine


Cutting Out Line Noise
Building a Filtering Device Amending the DX Rules Short Wave Stations of the World by Frequencies and Wave Lengths

## APRIL 1, 1933


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Technical Editor NINTH YEAR


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Frontispiece-Sarah Ann McCabe

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The April DX Calendar of Special Programs. ..... 1
Building a Filter to Minimize Noise Nuisance, by The Technical Editor. ..... 2
Amending Those DX Rules. ..... 4
Helpful Advice to the Troubled, by The Technical Editor. ..... 8
Visiting Radio Stardom, with "Betty". ..... 12
The Intriguing Field of the Short Wave, by Page Taylor. ..... 15
Reading the Editor's Letters. ..... 19
Verifying Foreign Stations, by Ollie Ross. ..... 25
4-RK Verifies The Cricket Game Too. ..... 26
Reception Reports by Readers from Scotland to Zealand ..... 28
This Month's Changes in Station Data ..... 34
What's on the Air Tonight? The Month's Programs ..... 35
The Network Programs Classified by Subject. ..... 44
A Complete Index to North American Stations by Frequencies. ..... 46
The Index by States and Cities. ..... 60
The Index by Call Letters. ..... 67
The Short Wave Stations of the World by Frequencies ..... 70
The One Hundred Best Short Wave Stations by Calls ..... 75
Published Monthly Excepting July and August See Subscription Blank on Page 24

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# APRIL DX CALENDAR 

Special Programs for Distant Listeners
A. M. time is given as the night before. Thus early Monday morning programs are listed ander 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, Lims, Peru April 30
4:00-4:30-KGAR, 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, Chieago, III.

## monday might

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-WMIL, 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, 11 th, 18th, 25th
12:00-1:00-XEH, 1132, Monterrey, Mex. 5:00-6:00-KFGQ, 1310, Boone, Іоwa

## WEDNESDAY NIGHT

## April 5th

2:00-2:30-WHBF, 1210, Rock Island, III. April 19th
2:30-5:00-10-BI, 1200, Prince Albert, Sask. April 5th, 12th, 19th, 26th 11:30-1:00-KFU0, 550 , St. Louis, Mo. 12:00-1:00-WHBL, 1410, Sbeboygan, 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 <br> April 6th, 20th

11:30-3:00-WMBC, 1420, Detroit, Mich.
April 20th
5:30-7:00-WRAK, 1370, Williamsport, Pa. April 6th, 13 th, 20th 27 th
12:00-2:00-WHOM, 1450, Jersey City, N. J. 12:00-2:30-WMIL, 1500, Brooklyn, N. Y. 1:00-2:00-WENC, 1420, Americus, Ga. 2:00-3:00-CFAC, 680, Calgary, Alta.

## FRIDAY NIGHT

March 31st
2:00-4:00-10-BQ, 1200, Brantford, Ont. 4:00-4:30-KGAR, 1370, Tueson, Ariz. 4:00-6:00-WOV, 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, Mer.

## April 14th

2:00-4:00-WHET, 1210, Troy, Als.
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 might

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-WJEJ, 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, 23th
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, Columbers, Ohio.
12:00-3:00-CMCD, 925, Havana, Cuba.
12:30-3:00-WBBZ, 1200, Pones City, Okla.
1:00-1:30-WKY, 900 , Oklahoma City, Okly.
1:00-2:00-KQV, 1380, Pittaburgh, Pa.
1:00-2:00-KtFI, 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, Omshs, 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-KFXM, 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 Tueson, 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 "manmade" 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 socalled Dxer 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 kes., 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 4 th 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 DXing 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. Wedneaday 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 SetIHAVE a Silvertone 98 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 -45 s with any degree of satisfaction. The -71A tube requires only .25 am pere while the -45 consumes 1.5 am peres, or 6 times as much. The -45 uses only 2.5 volts while the -71 A 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 58 s for the -35 s in your set would be worth-while, and it is likely that the adapters under the 58 s would raise them so high that they would interfere with shielding. Try 56 s in place of -27 s 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-ion't miss this-Fridays at $9: 30 \mathrm{p} . \mathrm{m}$. "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 90 A 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 90 A 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 -99 s and the -12 A in this set, for all the -99 s are connected in series. A complete change of wiring would be necessary. A -71 A can be substituted for the -12 A , but a greater grid bias may be necessary. A $221 / 2$-volt "C" battery can be attached in series with the lead to the grid of the present -12 A 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 Stew-art-Warner short-wave converter has been sent to you. The plate voltage may be obtained from your Philco 90 A 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 1 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 484 s, all of which are radio-frequency tubes and a detector, may be replaced by -27 s . These -27 s can not be replaced by the newer 56 s 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 -27 s and 56 s use only 2.5 volts. This means that -27 s , when used in place of 484 s , 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 shortwave 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 -24 s and one -27 , with two -45 s 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 -45 s take 250 volts; and 75 volts may be found on the screens of all the -24 s . 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


[^0]an audio tube. A 56 , in this socket, may improve the volume a small fraction. We do not recommend changing the -45 s over to -47 s 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 56 s 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 $R C A 60$ 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 -71 A 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 ( $21 / 2$ or 3 to 1 ) audio transformer to these two terminals in place of the loud speaker. The secondary coil is connected to another -71 A 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 -71 A 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 -71 A tube with a wafer adapter. If the loudspeaker has no output


Fred Waring's little brother, Tom, is heard in the vocal choruses when Oid Gold broadcasts Wedneadays at $10 \mathrm{p} . \mathrm{m}$. 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 neutrodyme 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 <br> 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 Ellis, 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 Junebefore Der Baron turns film star.

Don't be surprised if Carson Robison, 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-toeleven" 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 $7: 30 \mathrm{p} . \mathrm{m}$. EST Sunday nights over the WEAF 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., MeKeesport, 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.

## Bonquets

"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.

ATTENTION 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 longforgotten 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 $8: 15 \mathrm{p} . \mathrm{m}$.

## 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.

| 050 | 49.56 G8A. | Daventry, England, $8: 30 \mathrm{p} . \mathrm{m}$. daily. |
| :---: | :---: | :---: |
| 6.119 | 49.00 YV1BC. | Caracas, Venezuela, 8:00 D. m., |
| 6.618 | 45.31 PRADO. | Riobamba, Ecuador, 10 D. m.. |
| 872 | 38.47 HBP. | Geneva, Switzerla |
| 9.503 | 31.55 VK3ME, | Melbourne, Australia, 5:00 a. m. |
| 9.585 | 31.28 GSC. | Wednesday and Saturday, Daventry, England, 4:00 p. m., |
| 0.862 | 30.40 | Spain, 6:00 |
|  |  |  |
| 11.711 | 25.60 | Pontoise, France, 5:00 D. m |
|  | 25.51 DJD. | Zeesen, Germany, 3:00 D. m. |
| 11.800 | 25.40 I2RO, | Rome, Italy, 5:00 p. m. dally. |

Daventry, England, 8:30 D. m. dally.
Caracas, Venezuela, 8.00 p. m., Riobamba, Ecuador, 10 D. m.. Thursday. Sundsy.
Welbourne, Australia, $5: 00 \mathrm{a}$. m. Daventry, England, 4:00 p. m., Mally,
Madrid,
Spain,
6:00
D.
. dally.
Pontoise, France, Zeesen, Germany, 3:00 D. m. Rome, Italy, 5:00 p. m. dally.

## 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 $7,224 \mathrm{kc} / \mathrm{s}$. at 5:00 a.m. Indian Standard Time ( $6: 30 \mathrm{p} . \mathrm{m}$. 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 trolly 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 megs., San José, Costa Rica; RV59, Moscow; FRO, St. Assise, France, on 19,420 $\mathrm{kc} / \mathrm{s}$. and FTO on $18,250 \mathrm{kc} / \mathrm{s}$. 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, YV11BMO, PRBA, HKD, I2RO, FQE, KKP, PRADO, TGW, HBL and HBP. I listened from 1 to $3 \mathrm{a} . \mathrm{m}$. 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, e/o First National Bank, St. Paul, Minn., uses a Midwest converter with an 11-tube Phileo 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:

[^1]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.

PPerhaps you would address them to G. Gallarati," League of Nations, Geneva, Swit-

## 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 $15,-$ $760 \mathrm{kc} / \mathrm{s}$. ( 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 $3: 30 \mathrm{p} . \mathrm{m}$. 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 $10 \mathrm{p} . \mathrm{m}$. 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' Viens

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 kes . '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 fortwo 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-bedamned" 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 kes. 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 Everready 1000 -hour aircell A battery," reports P. J. Hoffmann, Annaheim, 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 jumpwire 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 $10: 30 \mathrm{a}$. 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, WTIC, 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 midn'ght 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 SearsRoebuck 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 kes . WUMS is another located somewhere in southern Ohio on about 1385 kes. 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 25 c 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 keys.? Friday, February 10th, from about 11:00 to $11: 30 \mathrm{p} . \mathrm{m}$. EST, there was a Cuban broadcasting on 1200 keys. 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 kes., as he intends to build the onetuber 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 kes. 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 kes., 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 kes., San Juan, Porto Rico, broadcasts regularly from 12:30 to $3: 00 \mathrm{a} . \mathrm{m}$. and from 6:30 to $10: 00 \mathrm{p} . \mathrm{m}$. 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 keys., 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 kes., 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 kes. on Feb. 17 th which announced the time at intervals in Pa cific 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 -89 s 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 $20 \times 14 \times 81 / 2$ inches and the weight is 30 pounds.

## INSURE YOUR RADIO ENJOYMENT

SEND THIS BLANK TODAY
The Radex Press, Inc. Hanna Building Cleveland, Ohio. Enclosed find \$ $\qquad$ 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 ..... 25 c
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-Con-verter, free1.75
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
Leatherette Cover ..... 50Write Name PlainlyStreet and Number.

## Verifying <br> Foreign Stations

By OLLIE ROSS

T${ }^{1} \mathrm{HE}$ 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

ASMALL, 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 

W E 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 kes. Many of our readers were chalking up the Paris station in their logs with glee. But-and here's the catch4RK, Rockhampton, Queensland, Australia, on 910 kes. 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. 3 rd, reporting reception from 4RK. Reference to our log confirms your reception and we congratulate you. We presume you are aware that 4 RK 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 4 RK 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 4 RK 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-twicethree 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 $5: 30 \mathrm{p}$. 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 kes. 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 Her-ald-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 kes. 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.

## Now $A$ <br> 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 kes. 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
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 $6: 15 \mathrm{a} . \mathrm{m}$. 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?

## 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-W aterbury, 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-W orcester, 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 $24 t h$, 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. Spitler, 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. Furley, 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 kes. (Page 78, No. 63) I listened to their very interesting program dedicated to the people of the U. S. A., from $3: 14 \mathrm{a}$. 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 kes. 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 7tube, 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 1:352:00 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 keys., 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 keys. 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 $2 \mathrm{YA}, 5 \mathrm{CK}$ and 2 BL and received my veri from 4 BC . 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 hun-dred-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 WGNY, KIEV, WTRC, KTW, 10-AT, $10-\mathrm{BQ}$ - 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 kes.? 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 10AT, 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 $10-\mathrm{AT}$. As $10-\mathrm{BI}$ in Saskatchewan sometimes uses 1155 kcs . for DX and $10-\mathrm{AB}$ 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 $10-\mathrm{AT}$ they heard."
"I received a station on 1360 or 1370 kes., 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 $2: 05 \mathrm{a} . \mathrm{m}$. 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: $2 \mathrm{BL}, 4 \mathrm{QG}$, 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 twotube 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 'Gazotskies' 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, Clarksville, 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 $42-\mathrm{S}$ 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 thousandwatters. 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 Wakerell, 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 kcys., and CMBZ loud at $8: 30$ on 1005 kcys. XEAW, Reynosa, has been very loud on 960 keys., to midnight and after. Also XEPN, Piedras Negras, on 885 , with 75 kw to $11 \mathrm{p} . \mathrm{m}$."

## 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 StewartWarner 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 12 Z 3 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

## frevenciers

| 579 | HIX |
| :--- | :--- |
| 390 | CMW |
| 660 | CMAF |
| 1015 | XEJ |
| 1020 | XEFC |
| 1185 | CMBN |
| 1230 | CMBY |
| 1230 | CMCA |
| 1240 | CMJN |
| 1335 | CMJI |
| 1340 | KGDY |
| 1360 | CMJP |
| 1365 | CMCR |
| 1405 | CMCH |
| 1405 | CMCM |
| 1485 | CMBR |

Santo Domingo, D. R., from 630
Havama, Cuba, from 585
Havans, Cuba, from 650
Juarez, Mexico, from 1000
Merida, Mexico from 1050
Harans, Cuba, from 1444
Havans, Cuba, from 1235
Havana, Cubs, from 1235
Carmaguey, Cuba, from 1270
Ciego de A vila, Cuha, from 1260
Huron, S. D., from 1200
Moron, Cuba, from 1310
Havana, Cuba, from 1375
Havana, Cuba, from 1395
Havana, Cuba, from 1395
Havana, Cuba, from 1500
POWER

| 660 | CMAF | Havana, Cuba, 1000 |
| :---: | :---: | :---: |
| 780 | WEAN | Providence, R. I, 25 |
|  | WJAR | Providence, R. R ., 250 to 500 |
| 1015 | XEJ | Jaurea, |
| 1030 | XEB | Mexico City, Mexico, 1000 to 100 |
| 1075 | XEG | Mexico City, Mexico, 250 to 500 |
| 1110 | CMJO | Ciego de Avila, Cuba, 15 to |
| 1150 | CMJH | Ciego de Avila, Cuba, 50 to 30 |
| 1185 | CMBN | Havana, Cuba, 30 to 150 |
| 1230 | CMBY | Havana, Cuba, 350 |
| 1290 | KLCN | Blytheville, Ark, 50 to 100 |
| 1335 | CMJ | Ciego de Avila, Cuba, 5 to 45 |
| 1340 | KGDY | Hu |
| 1370 | XEFV | Juarez, Mexico, 50 to 100 |
| 1460 | KSTP | St. Paui, Minn., 10000 to 25000 |

560 XEAO Mexicali, Mexico
660 XEM Matamoros, Merico
685 HJN Bogota, Colombia,
875 XEAD Mexico City, Merico
1090 XEAI Mexioo City, Mexico
1295 XEAC San Luis Potcei, Mexico
1340 WLEC Portland, Maine
1450 XEAB N. Laredo, Merico
OWNERS
630 WMAL Washington, D. C., to National Broadeasting Co.
970 KJR Seattle, Wash, to Fishens Blend Stations, Inc.
1185 CMBN Havana, Cuba, to G. de Sequein
1200 KGHI Little Rock, Ark, to Lloyd Judd Co.
PERMIT TO CHANGE LOCATION
560 KTAB Ran Francisco, Calif., to Oakland, Calif.

## THE RADEX MARKET PLACE

Classified Advertising
A Department for the Use of Advertisers and Readers in bringing Used Sets and Parts, Merchandise, Books or Services to the Attention of the Public. Rate : 10 cents a word; minimum charge, $\$ 4.00$.

[^2]
## 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) $\qquad$ WEAF NATIONAL, Blue (B) $\qquad$ w.JZ

| Call | Dial | Call | Dial |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |


| Call | Dial | Call | Dial |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |


| Call | Dial | Call | Dial |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |

TIME-E Eastern Standard; C Central Standard; M Mountain Standard; P Pacifie Standard.
RADEX is the only publlication 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

$\mathrm{E}-5: 45$ 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 WWNC

E-6:00 p.m., C-5:00, M-4:00, P-3:00 C-Elizabeth Bartheil
CFRB CKOK KFAB KFH KIZ KMOX KSCJ KSL KTRH KVOR WAAB WABC WADC WBCM WBIG WBRC WBT WDAE WDBJ WDOD WDRC WDSU WFAN WFBL WFEA WGR WGST WHEC WIP WISN WJAS WKBH WKBN WLBW WLBZ WNAX WNOX WODX WOKO WORC WQAM WREC WSBT WSFA WSJS WSPD WTAQ WTOC
$\mathbf{R}-$ Waldorf-Astoria Orchestra
CKGW KFYR KGO KOA KPRC KSD KTBS WBEN WCAE WCKY WCSH WDAF WEAF WENR WFBR WHI WHO WIBA WIOD WJAR WKY WMC WOAI WOC WRC WSB WSMB WTAG WWNC

E-6:15 p.m., C-5:15, M-4-15, P-3:15
C R Reis and Dunn
CFRB CKOK KPAB KFH KLZ KMBC KACJ KSL KTRH KVOR WAAB WADC WBCM WBIG WBRC WBT WCAO WDAE WDBO WDOD WDSU WEAN WFAN WGR WHEC WIP WISN WJAS WJSV WKBH WLBW WLBZ WNAX WOKO WORC WQAM WSBT WSFA WSIS WSPD WTAQ WTAR WTOC

## 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
KFYR KGO KGW KHQ KOA KOMO KPPC KSD KTBS KTHS KVOO WEAF WFBR WFI WIBA WIS WMAQ WMC WOAI WSB WSMB B - Thiree 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 WBEN WCAE WDAF WEAF WFBR WHO WIS WJAR WMAQ WMC WOC WSAI WSB WSM WTAG WWNC

B - Lowell Thomas
CKGW KDKA WBAL WBZ WBZA WGAR WHAM WJR WJZ WLW B - Little Orphan Annie
KFYR KOIL KPRC KSO KSTP KTBS KWCR KWK WBAP WDAY WEBC WENR WKY WOAI WREN

E-7:00 p.me, C-6:00, M-5:00, P-4:00 C - Myrt and Marge
CKOK KRLD WABC WADC WCAO WCAU WDRC WEAN WFBL WGR WHK WJAS WJSV WKRC WNAC WOKO WSBT WSPD WWVA
B - Amos ' $n$ ' Andy
CKGW KDKA WBAL WBZ WBZA WCKY WFLA WGAR WHAM WIOD WJAX WJR WJZ WLW WPTE WRC WRVA WWNC
R - Gruen and Hall, Piano Duo
KDYL KFI KFSD KFYR KGO KOA KSTP KTBS KVOO KYW WCSH WDAF WEAF WEBC 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 WCLO WGR WHAS WHK
R - Wheatenaville Ray Knight
WDAF WEAF WEEI WGY WHO WJAR WLIT WMAQ WOC WOW WRC WTAM WWJ
B - Tastyeast Jesters
KDKA WBAL WBZ WBZA WCKY WHAM WJZ

E-7:30, p.m., C-6:30, M-5:30, P-4:30 B - Fire Star Theatre
KDFA KTBS WBAI, WBZ WBZA WHAM WIS WJZ WMAL WMC WPTP WRVA WSAZ WSMB WWNC C- Dolph Martin's Orchestra
WABC WCAO WCAU WDRC WEAN WFBL WFEA WGR WHEC WHP WJAS WJSV WLBZ WNAC WOKO WORC
R - Elvis Allman
WCKY WCSH WDAF WEAF WEEI WENR WFBR WGY WJAR WSAI WTAG

[^3]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 WDRC WEAN WFBL WHBM WGN WGR WHAS WHK WJAS WJSV WKRC WNAC WOKO WSPD
R - Soconyland Sketches
WBEN WCSH WEAF WEEI WGY WJAR WTAG WTIC

## B - Clicquot 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 WCCO WDRC 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 WDRC WEAN WFBM WGN WGR WHAS WHK WJAS WJSV WKRC WNAC WOKO WOWO WSPD
R - Voice of Firestone
CFCF CKGW KPRC KBD KTBS KVOO WBEN WCAE WCSH WEAF WEEI WFAA on $8: 45$ WFBR WFLA WGY WHO WIOD WIS WJAR WJDX WKY WIIT WLW WMAQ WMC WOAI WOC WOW WRC WRVA WSB WSM WBMB WTAG WTAM WTIC WWJ WWNC

## 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 KFBK KEPY KFRC KGB KHJ KLRA KLZ KMBC KMJ KMOX KOH KOIN KOL KOMA KRLD KSL KTRH KTSA KVI KWG WABC WADC WBRC WBT WCAH WCAO WCAU WCCO WDAE WDBJ WDBO WDRC WDSU WEAN WFBL WFBM WGN WGST WHAS WHEC WHK WISN WJAS WJSV WKBW WKRC WLAC WEBZ WMBG WMT WNAC WOKO WORC WOWO WPG WQAM WREC WSPD WTAR WTOC $\mathbf{R}-$ A. \& P. Gypsies
KSD WBEN WCAE WCSH WDAF WEAF WEEI WGY WHO WJAR WLIT WMAQ WOC WOW WRC WSAI WTAG WTAM WTIC WWJ

MONDAY-(Continued)

## B - Sinclair Minstrels

KDKA KPYR 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 WOAI WREN WRVA WSB WSM WSMB WTMJ WWNC

## E-9:15 p.m., C-8:15, M-7:15, P-5:15

 C - The Mills BrathersCKOK KMBC KMOX WABC WADC WCAO WCAU WDRC WEAN WFBL WGN WHAS WHK WJAS WJSV WKBW WKRC WNAC 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 WJSV WKBW WKRC WNAC WOKO WOWO WSPD R-Paul Whiteman and Orchestra KDYL KFI KFSD KFYR KGHL KGIR KGO KGW KHQ KOA KOMO KPRO KSD KSTP KTAR KTHS WBEN WCAE WCSH WDAF WDAY WEAP WEBC WEEI WPAA WFBR WFLA WGY WHO WIBA WIOD WJAR WJAX WJDX WKY WLIT WMAQ WMC WOAI 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

CFCF CKGW KFYR KPRC KSD KSTP WBEN WCAE WDAF WEAF WEBC WENR WFAA WFLA WGY WHO WIOD WJAX WKY WMC WOAI WOC WRVA WBAI WSB WSM WTAM WTMJ WWJ

## C- Columbia Revue

CFRB CKOK KLRA KLZ KMBC KSCJ KSL KTRH KTSA KVOR WAAB WABC WADC WBBM WBCM WBIG WBRC WBT WCAH WCAO WCAU WCCO WDAE WDR WDOD WDR WDSU WFBL WFBM WFEA WGST WHAS WHEC WHK WHP WJAS WJSV WKBH WKBN WKBW WLBW WLBZ WMBD WMT WNAX WNOX WODX WOKO WORC WPG WQAM WREC WSIS WSPD WTOC B-The Sizzlers, Harmony Trio KDKA KDYL KPSD KGHL KGIR KOA KOIL KSO KWCR KWK WBAL WCKY WGAR WJR WJZ WMAQ WREN WSYR

## E-10:15 p.m., C-9:15, M-8:15, P-7:15 B - Vic and Sade <br> 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 KTSA KYOR 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 WJSV WKBH WKBN WKBW WLBW WLBZ WMBD WNAX WNOX WODX WOKO WORC WQAM WREC WSJS WSPD WTOC

## R - National Radio Forum

KECA KGA KPO KSD KTAR KTBS WBEN WCSH WDAF WEAF WEEI WENR WFBR WFLA WIBA WIOD WIS WJAR WJDX WKY WOAI WRO WRVA WSAI WTAG WTAM WWJ WWNC

## E-10:45 p.m., C-9:45, M-8:45, P-7:45 C-Myrt and Marge <br> KDB KERN KFBK KFPY 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 WBRC WBT WCAO WDOD WDRC WDSU WEAN WFAN WFBM WHK WIBW WICC WIP WISN WJAS WJSD WKBN WKBW WLBW WLBZ WMBD WNAX WODX WOKO WORC WQAM WSBT WSIS WSPD WTAR WTOC R - Ted Weems and Orchestra
KFYR KGO KOA KSD WBEN WCAE WCKY WDAF WEAF WEBC WFBR WGY WHO WIBA WJAR WOC WRC WTAG WTAM WWJ

## B-Amos 'n' Andy

KDYL KPI KFSD KGO KGW KHQ KOA KOHL KOMO KPRC KSTP KTHS KWK WBAP WDAF WENR WJDX WKY WMAQ WMC WOAI 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 WBRC WBT WCAO WCAU WCCO WDOD WDRC WDSU WEAN WFBM WHK WIBW WICC WISN WJSV WKBN WKBW WLBW WLBZ WMBD WNAC WODX WOKO WORC WPG WQAM WSBT WSJS WSPD WTAR WTOC
R - Jack Denny and Orchestra
WEAF WFBR WJAR WRC WTAG WTIC

## R-Voice of Firestone

KDYL KFI KFSD KFYR KGHL KGIR KGO KGU KGW KHO KOA KOMO KSTP KTAR WDAY WEBC WIBA WTMJ

## B - Harold Sanford's Brass Band

CFCF CKGW KFYR KSO KSTP KWCR KWK WBAL WCKY WDAY WEBC 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 Órchestra
CKOK KFAB KLZ KMBC KMOX KRLD KSCJ KSL KTRH KVOR WABC WBRC WBT WCAU WCCO WDOD WDSU WIBW WICC WISN WJSV WKBW WLBW WMBD WNAC WNAX WOKO WPG WSBT WSPD WTOC

## B - Freddie Martin and Orchestra

KDKA KOIL KWCR KWK KYW WBZ WBZA WGAR WJZ WRC WREN

## R-The Goldhergs

KDYL KECA KEX KGA KJR KOA KPO

## TUESDAY

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

E-5:00 p.m., C-5:00, M-4:00, P-3:00 C - Reis and Dunn
CFRB CKOK KFAB KFH KTZ KSCJ KSL KVOR WAAB WABC WACO WBIG WBRC WDAE WDBJ WDBO WDOD WDRC WDSU WFEA WGST WHP WICC WIP WISN WKBH WKBN WLBW WLBZ WMT WNAX WNOX WODX WOKO WORC WQAM WREC WSBT WSFA WSIS WSPD WTAQ WTAR WTOC
R - Waldori-Astoria, See Monday
E-6:30 p.m., C-5:30, M-4:30, P-3:30
R Mid-Week Hymn Sing
KFYR KGO KOA KOMO KTBS KTHS KVOO WBEN WDAF WEAF WFBR WFI WIS WMAQ WMC WOAI WPTE WSB WSMB WTAG WWNC
> E.6:45 p.m., C-5:45, M-4:45, P-3:45 8 - Lowell Thomas, See Monday
> B - Orphan Annie, Sce M onday
> C- Just Plain Bili, , See Monday
> R - Harding Sisters, Piano Duo
> WBEN WEAF WFBR WFI WIS WJAR WMAQ WPTF WRC WSAI WSM WTAG WWNC

E-7:00 p.m., C-6:00, M-5:00, P-4:00 B - Vincent Lopez and Orchestra
KDYL KFSD KFYR KGO KHQ KOA KOMO KTBS WCSH WDAF WDAY WEAF 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 - Wheatenaville, See Monday
B - Radio in Education
KDKA KDYL KECA KEX KFSD KFYR KGA KGIR KJR KOA KOIL KPO KTBS KVOO KWCR WBZ WBZA WENR WFLA WIBA WIS WJDX WJZ WMC WOAI WPTF 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 WJSV WKRC WNAC R-James Melton Tenor
KYW WBEN WCSH WDAF WEAF WFBR WFI WGY WHO WOC WSAI WTAG WWJ

## E-7:45 p.m., C-6:45, M-5:45, P-4:45 B - Octavus Roy Cohen Mystery KDKA KOIL KSO KWCR KWK KYW WBZ WBZA WGAR WJZ WREN WSYR <br> C - Boake Garter, Sec Monday <br> R - The Goldhergs, See Monday

## E-8:00 p.m., C-7:00, M-6:00, P-5:00 C-Easy Aces <br> CKOK KMBC KMOX WABC WADC WCAO WCAU WCCO WEAN WFBL WFBM WGN WGR WHAS WHK WJAS WJSV WKRC WNAC WOKO WSPD <br> R-Blackstone, Sanderson-Crumit <br> KSD KSTP KYW WBEN WCAE WCSH WDAF WEAF WEBC WEEI WFI WGY WHO WJaR WOC WOW WRC WSAI WTAG WTAM WWJ 8-Eno Crime Club <br> KDKA KOIL KSO KWCR KWK

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 WFBM 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 WBCM WCAH WCAO WCAU WCCO WFBL WFBM WGN WGR WHAS WHEC WHK WISN WJAS WJSV WKBH WKRC WOKO WOWO WSPD R - Wayne King and Orchestra
KSD KSTP WBEN WCAE WCKY WCSH WEAF WEBC WEEI WFBR WFI WGY WHO WIBA WJAR WMAQ WOC WOW 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 <br> C-Abe Lyman and Orchestra

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

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

 C - Chesterfield, See MondayR - Ben Bernio and Orchestra
KFYR KOA KPRC KSTP WBAP WBEN WCAE WCKY WCSH WDAF WDAY WEAF WEEI WFBR WFI WGY WHO WJAR WKY WLS WMC WOAI WOC WOW 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-5:15 C - Threads of Happiness
CKOK KDB KERN KFBK KFH KFPY KFRC KGB KHJ KLRA KLZ KMBC KMJ KMOX KOIN KOMA KRLD KSL KTRH KTSA KVI KWG WABC WADC WBRC WBT WCAO WCAU WCCO WDAE WDBO WDOD WDRC WDSU WEAN WFBL WFBM WGN WGST WHAS WHEC WHK WJAS WJSV WKBW WKRC WLAC WNAC WOKO WOWO WQAM WREC WSPD WTAR WTOC
E-9:30 p.m., C-8:30, M-7:30, P-6:30 R - Ed Wynn-Don Voorhees
CFCF KDYL KFI KFSD KFYR KGHL KGIR KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTAR KTBS KTHS KVOO WBAP WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFBR WFI WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WLW WMAQ WMAC WOAI WOC WOW WRC WRVA WSB WSM WSMB WTAG WTAM WTMJ WWJ WWNC

## C-California Melodies

CFRB CKOK KFH KLZ KMBC KMOX KSCJ KSL KTRH KTSA

WABC WBCM WBIG WBRC WBT WCAO WCAU WCCO WDAE WDOD WDRC WEAN WFBM WFEA WHEC WHK WIBW WJAS WKBH WKBN WLBW WLBZ WMBD WNAC WNAX WODX WOKO WQAM WSIS WTAR WTOC.

## B - Willard Robison and Orchestra

KDKA KSO KWK WBAL WBZ WBZA WCKY WENR WJR WJZ WREN WSYR

## E-10:00 p.m., C-9:00, M-8:00, P-7:00 <br> \section*{C - Five Star Theatre}

KLRA WABC WBIG WBT WCAO WCAU WDBJ WDOD WDRC WDSU WEAN WFBL WFEA WHP WICC WJAS WJSY WKBW WLAC WMBG WNAC WNOX WOBU WOKO WORC WREC WSIS WTAR
B - Sigmund Spaeth, Tune Detective CFCF KDKA KOIL KSO KWCR KWK WBAL WCKY 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 WCKY WGAR WHAM WJR WJZ WMAQ WREN

E-10:45 p.m., C-9:45, M-8:45, P-7:45 C - Charles Carlile, Tenor
CFRB CKOK KFAB WAAB WABC WADC WBCM WDRC WFAN WFBL WFEA WHEC WHK WIP WJAS WJSV WKBN WKBW WLBZ WOKO WORC WPG WSBT WSPD
B - Professor Jack McLallen
CKGW KDKA KOIL KSO KWCR KWK WBAL WCKY 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 Reese WCKY WEAF
CKGW KSD WCAE WCK
WFBR 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 CFCF CKGW KFYR KGIR KPRC KSTP KTBS KWK WBAL, WCKY WENR WFLA WGAR WHAM WIBA WIS WJR WJZ WMC WRC WREN WSM WSYR WWNC

## B - Octavus Roy Cohen Mystery

KDYL KECA KEX KFYR KGA KJR KOA KPO KPRC KSTP KTBS WDAY WEBC WFAA WIBA 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
CFRB CKOK KFAB KFH KIZ KMBC KSCJ KSL KTRH WAAB WABC WADC WBCM WBRC WBT WCAO WCAU WCCO WDAE WDBO WDOD WDRC WDSU WEAN WFBM WHEC WHK WIBW WICC WISN WJSV WKBN WKBW WLBW WLBZ WMBD WNAX WODX WOKO WORC WPG WQAM WSJS WSPD WTAR WTOC WWVA
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 KPRC KSO KTBS KWCR KWK WAPI WBZ WBZA WFLA WGAR WIOD WJR WJZ WKY WMC WREN WSB WSM WSMB WWNC
C- Joe Haymes and Orchestra
CKOK KFAB KLZ KMBC KSCJ KSL KTRH KVOR WABC WBRC WBT WCAH WCAU WDAE WDOD WDSU WFBL WGST WHAS WHK WHP WISN WJAS WJSV WKBW WLBW WMBD WMT WNAX WNOX WOKO WPG WREC WSBT WSPD WTOC

E-12:30 a.m., C-11:30, M-10:30, $\mathrm{P}-9: 30$
R - Sam Rohbins and Orchestra
WIP WAPI WCAE WEAF WFBR WFI WFLA WIOD WJAR WMAQ WMC WRC WSB WSM WSMB WTAM

## WWNC <br> R - Ben Bernie and Orchestra

KFI KFSD KGO KHQ KOMO KSD KTAR

## B-Mark Fisher and Orchestra

KOIL KPRC KSO KSTP KTBS KWCR KWK WDAY WEBC WENR WFAA WGAR WIBA WJR WJZ WKY WLW WOAI WREN WTMJ

## 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:C0 <br> C- Dick Mansfield and Orchestra <br> CFRB CKOK KFH KLZ KSCJ KSL KVOR WAAB WABC WACO WBIG WBRC WDAE WDBJ WDBO WDOD WDRC WDSU WFEA WGST WHAS WHEC WHP WISN WKBH WKBN WLBW WLBZ WMT WNAX WNOX WODX WOKO WORC WQAM WREC WSBT WSFA WSIS WSPD WTAQ WTOC

R-Waldori-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 WBEN WCKY WDAF WEAF WFBR WIBA WIOD WIS WJAR WMAQ WMG WOAI WSB WTAG WWNC

## E-6:45 p.m., C-5:45, M-4:45, P-3:45 R - Andy Sannella

KECA KEX KFSD KGA KJR KPO KSD WBEN WCAE WCSH WEAF WFBR WFI WHO WIS WJAR WMAQ WMC WOC WOW WRC WSAI WSM WTAG WTAM
C- Just Plain Bill, See Monday
B - Lowell Thomas, See Monday
B-Orphan Annie, See Monday

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## WEDNESDAY-(Con'd)

E-7:30 p. m., C-8:30, M-5:30, P-4:30
C-Dolph Martin, Seo Monday
R-Elvia Allman See Monday
E-7:45 p.m. C-6:45, M-5:45, P-4:45 C- Boake Carter, See Monday
R - The Goldherys, 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 Cluh, See Tuesday R-Geerge Olsen-Fanny BriceKSD WBEN WCAE WCSH WDAF WEAF WEEI WFBR WGY WHO WJAR WLIT WLS WOC WOW WRC WSAI WTAG WTAM WTIC WWJ

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

 C-Singin', Sam, Soe Monday
## E-8:30 p.m., C-7:30, M-6:30, P-5:30

 C-Kate Smith, See TuesdayR - The Shadow, Mystery Drama
WBEN WCSH WEAF WERI WFBR WGY WJAR WLIT WRO WTAG WTIO

## B - Pickens Sisters

KDKA KWCR KWK WBAL WGAR WHAM WIS WJAX WJR WJZ WLS WREN WWNC

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

## E-9:00 p.m., C-8:00, M-7:00, P-6:00 C-Chesterfield, See Monday <br> B - Sherlock Hoimes

CFCF CKGW KDKA KOIL KWCR KWK WBAL WBZ WBZA WGAR WHAM WJR WJZ WLS WLW WREN R-General Tire Program
KFI KPSD KPYR KGHI, KGIR KGO KGW KHQ KOA KOMO KPRC KSD KSTP KPAR KTBS KVOO WBEN WCAB WCSH WDAF WDAY WFAF WERC WEEI WFBR WPIA WGY WHO WIBA WTOD wIS WJAR WJAX WJDX WKY WMAQ WOAI WOC WOW WRC WRVA WRAI WSB WSM WTAG WTAM WTIC WTMI WWI WWNG

E-9:15 p.m., C-8:15, M-7:15, P-6:15 C-Romantic Bachelor
CKOK KDB KERN KFBK KFH KPPY KFRC KGB KHJ KLRA KLZ KMBC KMJ KMOX KOIN KOL KOMA KRLD KSCJ KSL KTRH KTSA KVI KWG WABC WACO WADC WBIG WBRC WBT WCAO WCAU WCCO WDBJ WDOD WDRC WDSU WEAN WFBL WFBM WGN WGST WHAS WHK WIBW WISN WJAS WJSV WKBH WKBW WKRC WLAC WLBZ WMBG WMT WNAC WNAX WNOX WODX WOKe WOWO WREC WSPD WTAR

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

 C-Guy Lombardo-Burns a-d Allen CKOK KMBC KMOX KOM: KRLD KTRH KTSA WABC WADO WCAO WCAU WCCO WDRC WEAN WEBL WFBM WGN WHK WJAS WJSY WKBW WKRC WNAC WOKO WOWO WSPDB - 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 CKOK KDB KERN KPBK KFPY
KFRC KGB KHJ KIAR KLZ KMBC KMJ KMOX KOIN KOL KOMO KSL KTAT KTRH KTSA KVI KWG WAAB WABO WADC WBRO WBT WACH WCAO WCAU WCCO WDAE WDBO WDOD WDRC WDSU WFBL WFBM WGN WGST WHAS WHEC WHK WIBW WJAS WISV WKBW WKRC WODX WOKO WOWO WQAM WREC WRR WSPD
R - Corn Coh Pipe Club
KDYI, KFI KGH1, KGIR KGO KGW KHQ KOA KOMO KSD WBEN WCAE WCSH WDAF WEAF WEEI WENR WFBR WGY WHO WJAR WHIT WLW WOC WOW WRC WRVA WTAG WTAM WTIC WTVI B - D. W. Grillith's. Hollywood KDKA KOIL KPRC KWK WBAL WBZ WBZA WPAA 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 WHLA WHAM WIOD WJR WJZ WRO WREN WSYR WWNC
R-Carveth Wells
KDYL KEYR KGA KGH, KGIR KOA KPRC KSD KSTP KTBS KTHS WDAF WDAY WEAF WEBC WFAA WFBR WHO WIBA WKY WMAQ WOAI WOC WOW WRVA WTMS C - Edwin C. Hiil, See Monday
E-10:45 p.m., C-9:45, M-8:45, P-7:45 C - Myrt and Marge, Seo Monday C - Little Jack Little
CFRE CKOK WAAB WABC WCAO WDRC WEAN WHEC WLBW WLBZ WORO 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, Bec Monday
E-11:30 p.m., C-10:30, M-9:30, P-8:30 C-Isham Jones, See Tuesday
$\mathrm{B}-$ 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 - Eddio Duchin and Orchestra
CKOK KFAB KLZ KMBC KSCJ KTRH KVOR WABC WBRC WBT WCAH WCAU WCCO WDAE WDOD WDSU WEAN WFBL WGST WHAS WHK WHP WICO WISN WJAS WJSY WKBW WLBW WMBD WMT WNAC WNAX WNOX WOKO WORC WPG WREC WSBT WSPD WTOC R - The Goldhergs, See Monday B - Ben Bernie and Orchestra
KDKA KFYR KOH, KSO KWCR KWK WBZ WBZA WEBC WENR WFLA WGAR WIBA WIOD WJZ WREN WWNC

E-12:15 p.m., C-11:15, M-10:15, P-9:15 B - Sherlock Holmes
KDYL KFI KFSD 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 Aunie, See Monday

## E-6:00 p.m., C-5:00, M-4:00, P-3:00 R - Waldori-Astoria, See Monday C - H. V. Kaltenborn

CFRB CKOK KFAB KFH KIZ KACJ KVOR WAAB WABC WACO WBIG WBRC WDAE WDBJ WDBo WDOD WDRC WDSU WEAN WFEA WGST WHAS WHEC WHP WICC WIP WISN WKBH WKBN WLBW WLBZ WMT WNAX WNOX WODX WOKO WORC WQAM WREC WSBT WSFA WSIS WSPD WTAQ WTAR WTOC

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

 CFRB CKOK WAAB WABC WACO WBIG WBPC WCAO WDAE WDBJ WDBO WDOD WDRC WDSU WFEA WGST WHEC WHP WLBW WLBZ WNOX WODX WOKO WORC WQAM WRES WSBT WSFA WSIS WSPD WTAR WTOC
## E-6:30 p.m., C-5:30, M-4:30, P-3:30 R - Three Keys

KECA KEX KPSD KFYR KGA KJR KOA KPO KSD KTBS KTHS WAPI WDAF WDAY WEAF WFBR WFI WIBA WIS WJAR WMAQ WMC WOAI WSAI WSB WSMB WTAG WWJ WWNO

E-6:45 p.m., C-5:45, Ni-4:45, P-3:45 C - Just Plain Biil, See Monday
B - Lowell Thomas, Sye Monday
B - Orphan Annie, Seo Monday

# E-7:00 p.m., C-6:00, M-5:00, P-4:00 <br> C-Myrt and Marge, See Monday <br> B - Ames ' $n$ ' Andy, See Monday 

E-7:15 p.m., C-6:15, M-5:15, P-4:15 C - Buck Regers, See Monday
R - Wheatenaville, See Monday
B - Concert Footlights
KOA KOIL KSO KWCR WBAL WIS WJZ WMAQ WREN WSM WSYR WWMC

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

## E-7:45 p.m., C-6:45, M-5:45, P-4:45 <br> B- Murder Mystery, See Tuesday <br> C-Boake Garter, See Monday <br> R - The Goldbergs, See Monday

## E-8:00 p.m., C-7:00, M-6:60, P-5:00 R - Rudy Vallee and Orchestra <br> CFCF CKGW KDYL KFI KFYR KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTAR WAPI WBAP WBEN WCAB WCKY WCSH WDAF WDAY WEAF WEBC WERI WFBR WFI WFLA WGY WHO WIOD WJAR WJAX WJDX WKY WMAQ WMC WOAI WOC WOW WRO WRVA WSAI WSB WSM WSMB WTAG WTAM WTMJ WWJ <br> 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 WFBL 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 Tuesdny
B - Rin Tin Tin Thriller
KDKA KOIL KWK 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, See Tuesday
B - Howard Thurston, Magician
KDKA KOIL KWK WBZ WBZA WGAR WHAM WJR WJZ WLS WLW WREN

E-9:00 p.m., C-8:00, M-7:00, P-6:00 R-Maxwell House Showhoat
KDYL KFI KFSD KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTAR KTBS WAPI WBEN WCAE WCKY WCSH WDAF WEAF WEEI WFBR WFI WFLA WGY WHO WIOD WIS WJAR WJAX WJDX WKY WMAQ WMC WOAT 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 WGAR WHAM WJR WJZ WLS WLW WREN

E-9:15 p.m., C-8:15, M-7:15, P-6:15
C- Milis 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 KFRC KGB KHJ KLPA KLZ KMBC KMJ KMOX KOIN KOL KOMA KSCJ KSL KTPH KTAT KTSA KVI KWG WABC WADC WBRC WBT WCAH WCAO WCAU WCCO WDAE WDBO WDRC WDSU WEAN WFBL, WFBM WGN WGST WHAS WHEC WHK WJAS WJSV WKBW WKRC WLAC WNAC WOKO WOWO WQAM WREC WRR WSPD WTAR

## B - Wayne King and Orchestra

KDKA KOIL KSO KWCR KWK WBAL WBZ WBZA WENR WJZ WREN

E-10:00 p.m., C-9:00, M-8:00, P-7:00 C- The Foreign Legion
CFRB CKOK KLPA KLZ KSCJ KTRH KTSA KVOR WAAB WABC WBBM WBIG WBRC WCAO WCAU WCCO WDAE WDBJ WDBO WDOD WDRC WDSU WEAN WFBM WFEA WGST WHEC WHK WHP WIBW WICC WKBN WLBW WLBZ WMT WNAX WNOX WODX WOKO WORC WQAM WREC WSJS WSPD WTAR WTOC
R - Lucky Strike-Jack Pear ! KDYL KFI KFSD KFYR KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTAR KTBS KTHS KVOO WBAP WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WENR WFBR WFI WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WLW WMC WOAI WOC WOW WRC WRVA WSB WSM WSMB WTAG WTAM WTMJ WWJ WWNC

## B - Carson Robison's Pioneers

CFCF 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 WKBW WLBW WLBZ 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 WFBR WRC WSAI WTAG WWJ
C- Howard Barlow, Sce Monday
B - Amos ${ }^{3} \mathbf{n}^{3}$ Andy, See Monday
E-11:15 p.m., C-10:15, M-9:16, P-8:15
B - Murder Mystery, See Tuesday
E-11:30 p.m., C-10:30, M-9:30, P-8:30
C Isham Jone, See Tuesday
R- Jack Denny, See Monday
B Willard Rohison and Orchestra
CFCF CKGW KDYL KEX KFSD
KFYR KGA KJR KOA KOIL KPO
KSO KWCR KWK WBAL WBZ
WBZA WEBC WFLA WGAR WHAM
WIBA 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-c:45 B - Orphan Annle, See Monday
E-6:00 p.m., 6-5:00, M-4:00, P-3:00 R - Waldort-Astoria, See Monday C-Do Re Nil Girls
CFRB CKOK KFH KLZ KSCJ KSL KTRH KVOR WAAB WABC WACO WBIG WBRC WDAE WDBJ WDBO WDOD WDRC WDSU WEEA WGST WHAS WHEO WHP WICC WIP WISN WKBH WKBN WKBW WLAC WLBW WLBZ WMT WNAX WNOX WODX WOKO WORC WQAM WREC WSBT WSFA WSJS WSPD WTAQ 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 WEBC WEEI WFBR WGY WIBA 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, Sce Monday
R - The Goldhergs, See Monday

E-8:00 p.m., C-7:00, M-6:00, P-5:00 C - Trado and Mark
CKOK KT:Z 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 WEBC WEEI WFAA WFBR 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 WGAR WHAM WJR WJZ WLS WREN

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

E-8:30 p.m., C-7:30, M-6:30, P-5:30 C - March of Time
CKOK KDB KERN KFBK KFPY KFRC 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 - Horlicik Program, See Tuesday

> E-8:45 p.m, C-7:45, M-6:45, P-5:45 B - Howard Thurston, Sce Thursday

E-9:00 p.m., C-8:00, M-7:00, P-6:00
C Chesterfield, See Monday
B - First Nighter, Drama
KDKA KDYL KII KFSD KGO KGW KHQ KOA KOIL KOMO KPRC KSTP KTAR KTBS KWK WAPI WBAL WBZ WBZA WCKY WEBC WGAR WHAM WJR WJZ WKY WLS WOAI WREN WSB WSM WSMB WTMJ
R-Musical Grocery Store
KSD WBEN WCSH WDAF WEAF WEEI WFBR 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 KTSA KVOR WAAB WABC WACO WADC WBCM WBIG WBT WCAH WCAO WCCO WDAE WDBJ WDOD WDRC WDSU WEAN WFBL WFBM WFEA WGST WHAS WHEC WHP WIBW WICC WISN WJAS WJSV WKBH WKBW WLBW WLBZ WNAX WNOX WODX WOKO WORC WQAM WREC WSBT WSJS WSPD WTOC

[^5]FRIDAY-(Continued) KOA KOIL KOMO KPRC KSO KSTP KWK WAPI WBAL WBZ WBZA WEBC WFAA WGAR WHAM WIOD WJAX WJR WJZ WKY WMAQ WMC WOAI WREN WRVA WSB WSM WSMB WTMJ WWNC

E-10:09 p.m., C-9:00, M-8:00, P-7:00 R-Chevrolet-Jack Benny
KDYL KFI KFSD KFYR KGHL, KGIR KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTAR KTBS KTHS KVOO WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WENR WFAA WFBR WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WKY WLIT WLW WMC WOAI WOC WOW WRC WRVA WSB WSM WSMB WTAG WTAM WTIC WTMJ WWJ WWNC

## B - Dorothy Fields-Jimmy McHugh CFCF KOIL KPRC KSO WBAL

 WCKY WHAM WJR WJZ WMAQ WREN WSYRE-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 WCSH WDAF WEAF WEEI WENR WFBR WGY WHO WJAR 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 BraggiottiCFRB CKOK WAAB WABC WCAO WDRC WEAN WFEA WHEC WICC WIP WJAS WJSV WKBW WLBW WLBZ WOKO WORC WPG WSPD B-Jack McLallen 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

CFCF CKGW KSO KSTP KWCR KWK WBAL WBZ WBZA WCKY WFLA WGAR WHAM WIBA WIOD WIS 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 WDRC WDSU WEAN WFBM WHEC WHK WICC WISN WJSV WLBW WLBZ WMBD WNAX WOKO WORC WQAM WSBT WSJS WSPD WTAR WTOC
## E-12:00 p.m. C-11:00, M-10:00, P-9:00 C-Ben Poilack and Orchestra

CKOK KFAB KLZ KMBC KRLD KSCJ KSL KTRH KVOR WABC WBRC WBT WCAU WCCO WDAE WDOD WDSU WICC WISN WJSV WLBW WMBD WNAC WNAX WOKO WPG WSBT WSPD WTOC

## R - The Goldbergs, Sce 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 WDRC WDSU WEAN WFEA WHEC WICC WISN WJSV WKBH WLBW WLBZ WNAX WOKO WORC WQAM WSBT WSFA WSJS WSPD WTAQ WTAR WTOC WWVA
R - Waldort-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 KPRC KSO KSTP KTAR KTBS KTHS KWCR KWK WBAL WBZ WBZA WCKY WEBC 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 Funnyboners

CFRB CKOK KFAB KFH KLZ KMBC KSCJ KTRH KVOR WAAB WABC WACO WBBM WBIG WBRC WCAO WCAU WDAE WDBJ WDOD WDRC WDSU WEAN WFEA WGST WHAS WHEC WHP WISN WJAS WKBW WLAC WLBW WLBZ WMT WNAX WNOX WODX WOKO WORC WQAM WREC WSBT WSFA WSIS WSPD WTAQ WTAR WTOC 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
CFCF CKGW KDKA KDYL KFYR KOA KSO KTBS KWK WBAL WBZ WBZA WCKY WEBC 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 WDRC WDSU WEAN WFBM WFEA WGR WHEC WHK WICC WJAS WJSV WLBW WLBZ WNAC 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 KOH KPO KPRC KSTP KTBS KWCR KWK WBAL WBZ WBZA WEBC WENR WFLA WGAR WHAM WIBA WIOD WIS WJDX WJZ WKY WMC WOAI WREN WSB WSMB WWNC

[^6]R - Archer Gibson, Organist
KEX KGA KJR KOA KPO KPRC KSD KTBS WBEN WDAF WEAF WEBC 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 KPRC KTAR KWK WAPI WBAL WCKY WDAY WEBC 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
CFCF CKGW KDKA KOIL KSO
KWCR KWK WBAL WBZ 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
KDYL KFSD KFYR KGA KFHL KGIR KJR KOA KPO KPRC KSD KSTP WAPI WBAP WBEN WCSH WDAF WDAY WEAF WEBC WEEI WFBR WFI 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 KTSA KVOR WABC WBIG WBRC WCAO WCAU WCCO WDAE WDBJ WDBO WDOD WDRC WDSU WEAN WFBM WFEA WGST WHEC WHK WHP WIBW WICC WISN WJAS WKBH WLAC WLBW WLBZ WMT WNAC WNAX WNOX WODX WOKO WORC WQAM WREC WSFA WSPD WTAQ WTAR WTOC

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 KPRC KSD KSTP KTAR KTBS WAPI WBAP WBEN WCAE WCSH WDAF WDAY WEAF WEEI WFBR 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 KTSA KVOR WAAB WABC WACO WADC WBBM WBCM WBIG WBRC WBT WCAH WCAO WCCO WDAE WDBJ WDBO WDOD WDSU WEAN WFBL WFBM WFEA WGST WHAS WHEC WIBW WICC WIP WISN WJAS WJSV WKBH WKBW WLBW WLBZ WMT WNAX WNOX WODX WOKO WORC WOWO WQAM WREC WSPD WTAR WTOC

## 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 WCSH WDAF WDAY WEAF WEBC WEEI WEBR 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 OrchestraCFRB CKOK KFH KLRA KLZ KMBC KMOX KSCJ KSL KTRH KTSA KVOR WAAB WABC WBBM WBIG WBRC WCAO WCAU WCCO WDAE WDRI WDBO WDOD WDRC WDSU WEAN WFBM WFEA WGST WHAS WHEC WHK WHP WIBW WICC WJAS WJSV WKBH WKBW WLAC WLBW WLBZ WMBD WMT WNAX 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

CFCF CKGW KDYL KFI KGO KOA KSD KSTP WBAP WBEN WCAE WCSH WDAF. WEAF WEEI WFBR WFI WGY WHO WJAR WLW WMAQ WOC WOW WRC WSB WSMB WTAG WTAM WWJ

E-10:15 p.m., C-9:15, M-8:15, P-7:15 C- Public Affairs Institute
KFH KLZ KSCJ KTRH KTSA KVOR WAAB WBAC WADC WBBM WBCM WBIG WBRC WBT WCAO WCAU WCCO WDAE WDBO WDOD WDRC WDSU WEAN WFBM WFEA WHEC WICC WJAS WJSV WKBH WLBW WLBZ WMBD WNAX WOKO WORC WPG WQAM WSBT WSJS WSPD WTAR WTOC WWVA

## B - Salon Singers

CFCF 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
B-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 KI/, KMBC KSCJ KTRH KTSA KVOR WAAB WABC WBIG WCAO WDAE WDBJ WDBO WDOD WDRC WDSU WRAN WFEA WGST WHAS WHEC WHK WHP WICC WIP WISN WJAS WJSV WKBW WLAC WLBW WLBZ WMBD WMT WNAX 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
CFCF KDKA KOIL 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 WEEI WFBR WFI WGY WHO WJAR WMAQ WOC WRC WSAI WTAG WWJ

## E-11:15 p.m., C-10:15, M-9:15, P-8:15 B - Lew White, Organist

KOIL KSO KWCR KWK WBAL WBZ WBZA WGAR WHAM WJR WJZ WRC WREN

## B - Murder Mystery, See Tuesday

[^7]KMBC KSCJ KTRH KVOR WAAB WABC WACO WBRC WCAO WDAE WDBJ WDBO WDOD WDRC WDSU WEAN WGST WHK WHP WIBW WICC WIP WISN WJAS WJSy WKBW WLAC WLBW WLBZ WMBD WMT WNAX WNOX WODX WOKO WORC WQAM WREC WSBT WSIS WSPD WTAR WTOC WWVA

## B - Harold Stern and Orchestra

KSD WBEN WCAE WCKY WCSH WDAF WEAF WEEI WFBR WFI WGY WHO WJAR WMAQ WOC WRO WSAI WTAG WTAM WWJ
E-12:00 p.m. C- C-11:00, M-10:00, P-9:00
B- Mark Fisher's Orchestra KOIL KSO KWCR KWK KYW WGAR WJZ WLW WRC WREN R-Ted Weems and Orchestra
KDYL KFSD KPYR KGA KGHL KJR KOA KPO KPRC KSD KSTP KTAR KTBS WCAE WCKY WDAF WDAY WBAF 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 <br> KSD WBEN WCAE WCKY WDAF

 WEAF WFBR WFI WHO WJAR WOC WRC WTAG WTAM
## B-Sam Robbins' Bermudians

KDYL KECA KEX KFSD KFYR KGA KJR KOHL KPO KPRC KSTP KTBS KVOO KWCR KWK KYW WDAY WEBC WFAA WFLA WGAR WHAM WIBA WIOD WJAX WJZ WKY WLW WMC WOAL 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 KPYR KGA KJR KOA KPO KPRC KVOO WBAP WDAF WDAY WEAF WFBR WYIA WGY WHO WIOD WJAR WJAX WKY WMC WOC WRC WSM WSMB WTAG WTAM WTMJ 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 K8L KTRH KTSA KVOR WABC WADC WBCM WBIG WBT WCAO WCAU WCCO WDAE WDBO WDOD WDRC WDSU WEAN WFEA WGR WHEC WHK WIBW WISN WJAS WJSV WKBH WKBN WLBW WLBZ WMBD WNAC WNAX WODX WOKO WORC WPG WQAM WSBT WSJS WSPD WTAQ WTAR WWVA

E-12:15 p-m, C-11:15, M-10:15, P-9:15
B-Ror's Gang CFCF CKGW KDKA KDYL KECA KEX KFSD KFYR KGA KJR KOA KOIL KPO KPRC KSTP KTAR KVOO KWK WAPI WBAL WBZ WBZA WDAY WEBC WFAA WFLA WGAR WHAM WIBA WIOD WIS WJAX WJR WJZ WKY WLW WMAQ WOAI WRC WREN WRVA WSB WSM WSMB WSYR WWNC

[^8]WBEN WCAE WCKY WCSH WDAF WDAY WEAF WEBC WEEI WFAA WFBR WFI WGY WHO WIBA WIOD WIS WJAR WKY WOAI WOO 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 KTBA KVOR WABC WADC WBCM WBIG WBT WCAO WCCO WDAE WDBO WDOD WDSU WGR WHEC WHK WIBW WISN WJAS WJSV WKBH WKBN WLBW WLBZ WMBD WNAX WODX WOKO WPG WQAM WSUS WSPD WTAQ 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 CFCF CKGW KFI KF8D 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 WIS WJAR WJAX WKY WMAQ WOAI WOC WOW WRO WRVA WSAI WEB WSM WSMB WTAG WTAM WWJ WWNC

## C-Columbia Church of the Air

CFRB CKOK KLZ KSCJ KSL KTRH KTBA KVOR WAAB WABC WADC WBCM WBIG WCAO WCCO WDAE WDBO WDOD WDRC WDSU WGR WHEC WIBW WJAS WJSV WKBH WLBW WLBZ WNAX WODX WOKO WPG WQAM WSBT WSJS WSPD WTAQ WTAR WTOC WWVA

## E-2:00 p.m., c-1:00, M-12:00, P-11:00 c-Smiling Ed MeConneil

CKOK KERN KFBK KFPY KFRC KGB KHJ KLZ KMBC KMOX KOIN KOL KSL KVI KWG WABC WBBM WBT WCCO WDSU WGR WGSI WHAS WHEC WJAS wJSV WKRC WLAC WNAC WOWO WQAM WRR B- Monarch Mystery Tenor
KDKA KDYL KFI KFYR KGO KOA KOIL KSO KSTP KWCR KWK WBZ WBZA WCKY WDAY WEBC WGAR WHAM WIBA WJAR WJAX WJR WJZ WMAQ WREN WTMJ WWNC R - Clydo Doerr's Saxophone Octet CFCF KSD KTBS KTHS WAPI WBEN WCAE WCKY WEAF WPAA WFBR WGY WHO WJAR WJDX WMO WOAI WOO WOW WSAI WSM WSMB WTAG WTAM WWJ

## $\mathrm{E}-2: 15 \mathrm{p} . \mathrm{m}, \mathrm{C}-1: 15, \mathrm{M}-12: 15, \mathrm{P}-11: 15$ C Albert Bartlett Tango King

CKOK KMBC KMOX WABC WBBM WCAO WCAU WGR WHEC WHK WJAS WJSV WKRC WNAC WOKO WOWO

## R-International Radie Fortm

CFOF KDYL KFI KFSD KFYR KGHL KGIR KGO KHQ KOA KOMO KPRC KSD KTAR KTBS KTHS KVOO KYW WAPI WBEN WCAE WCKY WDAY WEAF WEBC WFAA WFBR WELA WGY WIBA WIOD WIS WJAR WJAX WJDX WKY WMC WOAI WOW WPTP 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 - Charlle Agnew's Orchestra
KDKA KDYL KFI KFSD KFYR KGHL KGIR KGO KGW KHQ KOA KOIL KOMO KPRC KSO KSTP KTAR KTBS KTHS KVOO KWCR KWK KYW WAPI WBAL WBZ WBZA WDAY WEBC WFAA WFLA WGAR WHAM WIOD WIS WJAX WJDX WJR WJZ WKY WLW WMC WOA WPTP WREN WRYA 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 KPAB KYH KLZ KMBC KRLD KSCJ KSL KTRH KYOR WAAB WABC WADC WBCM WBIG WBRC WBT WCAO WCCO WDAE WDBO WDOD WDRO WDSU WFAN wFBM WFEA whec whk wibw WICC WIP WISN WJAS WJSV WKBH WKBN WKBW WLBW WLBZ WMBD WODX WOKO WORC WOAM WSBT WSPA WSIS WSPD WTAQ WTAR wTOC WWVA
## R - Wayne King and Orchestra

KDYL KFI KGO KGW KHQ KOA KOMO KPRO KSD KSTP KTBS KTHS KVOO KYW WBEN WCAE WCKY WCSH WDAF WEAF WEBC WEEI WFAA WFBR WGY WHO WIBA WJAR WKY WLIT WOAI WOC WOW 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 KPBD KPYR KGHL KGO KGW KHQ KOA KOMO KPRC K8D KSTP KTAR KTHS KVOO WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFRR WGY WHO WIBA WJAR WKY WLIT WOAI WOC WOW WRC WSAI WTAM WWJ B - Manhattan Merry-Go-Round KDKA KOHL 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 WDRC WEAN WFBL WFEA WGAR WGR WHB WICC WJAS WJR WLBZ WLW WMT WNAC WNBH WOC WOL WOKO WOR WORC

## B - Temple of Song

CFCF 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

[^9]WEAF WEEI WFBR WGY WJAR WLIT WMAQ WOW 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 WCSH WDAF WEAF WEEI WFBR WGY WJAR WMAQ WOW WRO WTAG WTAM WWJ

## B-National Youth Conterence

KDYL KFSD KFYR KGHL KGO KGW KHQ KOA KOH, KOMO KPRC KSO KSTP KTAR KYOO KWCR KWK WAPI WBAL WBZ WBZA WDAY WEBC 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 KMBO KMOX KRLD WAAB WABC WADC WCAO WCCO WDSU WGN WGR WHAS WHK WJAS WJSV WKRC
B-Lowell Thomas
WBEN WCAE WEAF WEEI WFBR WGY WJAR WRO WSAI WTAG
WTAM WWJ

## B - National Vespers

KFSD KFYR KGHL KGO KGW KHQ KOA KOH, 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 WCSH WEAF WEEI WPBR 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 KPI KPYR KGHI KGIR KGO KGW KHQ KOA KOMO KPRC KSTP KTAR KTBS KVOO WAPI WBAP WDAF WDAY WEBC WIBA WJDX WKY WMC WOAI WS WSM WSMB WTMJ

## R - Switt Garden Program

CKGW KSD WBEN WCAE WCSH WDAF WEAP WEEI WFBR WFI WGY WHO WJAR WMAQ WOG WOW WRC WBAI WTAG WTAM WWJ

## E-6:00 p.m., C-5:00, M-4:00, P-3:00 R - Catholico Hour

KDYL KEX KPYR KGHL KGIR KJR KOA KPRC KSD KTAR KTBS KVOO WAPI WBAP WBEN WCAE WCKY WCSH WDAF WDAY WEAF WEBC WEEI WENR WFBR WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WLIT WMC WOAI WOC WOW WRC WRVA WSAI WSB WSM WSMB WTAG WTAM WWJ WWNO

## B - Josef Koestror's Orchestra

KDKA KOL KSO KWCR KWK WBAL WBZ WBZA WCKY WENR WGAR WHAM WJR WJZ WREN

## C - The Lawyer and Public

CFRB KFAB KFH KLZ KRLD

KSCJ KSL KVOR WAAB WABC WACO WBCM WBIG WBRC WCAO WCCO WDAE WDBJ WDBO WDOD WDRC WDSU WEAN WFEA WGST WHAS WHP WIBW WICC WISN WKBH WLBW WLBZ WNAX WNOX WODX WOKO WORC WPG WQAM WREC WSFA WSIS WSPD WTAQ WTAR WTOC WWVA

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

CFRB OKOK KFH KLZ KMBC KRLD KSCJ KSL KVOR WAAB WABC WADC WBBM WBCM WBIG WBRC WBT WCAO WCAU WCCO WDAB WDBO WDOD WDRC WDSU WFBM WFEA WHEO WIBW WICC WISN WJAS WJSV WKBH WKBN WWKB WLBW WLBZ WNAX WOKO WORC WQAM WSBT WSFA WSJS WSPD WTAR WTOC WWVA

## R-Our American Schools

KDYL KECA KEX KPSD KFYR KGA KOA KPO KPRC KBD KSTP KTBS KVOO WBAP WBEN WCAE WCSH WDAY WEAP WEBC WEEI WENR WPRR WFIA WGY WIBA WIOD WJAR WKY WLIT WMC WOAI WOW WPTF WRC WRVA WSAI WSM WSMB WTAG WWJ WWNC

## E-7:00 p.m., c-6:00, M-5:00, P-4:00 $\mathrm{C}-\mathrm{H} . \mathrm{V}$. Kaltenborn

KFAB KFH KLZ KMBC KSCJ KSL KTRH KVOR WABC WACO WBCM WBIG WBRC WCAO WDAE WDBJ WDBO WDOD WDRO WDSU WEAN WFBM WFEA WGST WHAS WHP WIBW WICC WIP WISN WKBH WKBN WLBW WLBZ WMT WNAC WNAX WNOX WOKO WORC WPG WQAM WREC WSBT WSEA WSPD WTAR WTOC WWVA

## R-James Melton Tenor

KDYL KFYR KOA KPRO KSD KSTP KTBS KYOO WBEN WDAF WDAY WEAF WEBC WEEI WFBR WFLA WGY WIBA WIOD WIS WJAR WMAQ WOAI WRYA 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 WBRC WDAE WDBJ WDRO WDOD WDRC WDSU WEAN WFBM WFEA WGST WHAS WHP WIBW WICC WIP WISN WKBH WKBN WLBW WLBZ WMT WNAC WNAX WNOX WORC WQAM WREA WSBT WRFA WSIS WSPD WTAR WTOC WWVA
R-Wheatenaville, Sse Monday

## E-7:30 p.m., C-6:30, M-5:30, P-4:30 B - Great Moments in History

KDKA KDYL KFI KPSD KFYR KGO KGW KHQ KOA KOIL KOMO KPRC KSTP KTAR KVOO KWCR KWK WBAL WBZ WBZA WDAY WEBC WEAA 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 WDBJ WDBO WDOD WDRC WDSU WEAN WFBM WFEA WGST WHAS WHP WIBW WIP WISN WKBH

SUNDAY-(Continued)
WKBN WLBW WLBZ WMT WNAC WNAX WNOX WOKO WORC WQAM WREC WSBT WSFA WSIS WSPD WTAR WTOC WWVA

## R - Three Califernia Nuts

WCSH WEAF WEEI WJAR WTAG WTIC

## E-7:45 p.m., C-6:45, M-5:45, P-4:45 C - Angelo Patri, Your Child

CKOK KMBC KMOX WABC WCAO WCAU WCCO WFBL WGN WGR WHAS WHK WJAS WJSV WKRC WNAC

## R - Trade and Mark

KRD WBEN WCAE WDAF WEAF WFBR 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 Sanhorn-Eddio Cantor CFCF CKGW KDYL KFI KFSD KFYR KGO KGW KHQ KOA KOMO KPRC KSD KSTP KATR KVOO WBEN WCAE WCAH WDAF WDAY WEAF WEBC WFAA WFBR 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 KSOJ KSL KTRH KTBA KVOR WABC WACO WADC WBBM WBCM WBRC WBT WCAH WCAO WCCO WDAE WDBJ WDOD WDRC WDSU WFBL WFBM WFEA WGR WGST WHEC WHK WHP WISN WJAS WKBH WLBW WLBZ WNAX WNOX WOKO WORC WREC WSFA WSJS WSPD WWVA
E-S:15 p.m., C-7:15, M-6:15, P-5:15 C - Andre Kostelanetr Presents
CKOK KIZ KMBC KMOX KPLD KSCI KSL, KTRH KTRA KVOR WABC WADC WBBM WBCM WBRC WBT WCAO WCAU WCCO WDAE WDBO WDOD WDRC WDSU WEAN WFBM WFEA WGR WHEC WHK WIBW WISN WJAS WJSY WKBH WLBW WLBZ WNAC WNAX WOKO WORC WSBT WSFA WSJS WSPD WTAR WTOC WWVA
$\mathrm{E}-8: 45 \mathrm{p} . \mathrm{ml}, \mathrm{C}-7: 45, \mathrm{M}-6: 45, \mathrm{P}-5: 45$ C - John Henry-River Giant CKOK KLRA KTZ KMBC KRLD KSCJ KSL KTRH KTSA KVOR WABO WADC WBBM WBCM WBRC WBT WCAH WCAO WCCO WDAE WDBJ WDOD WDRC WDSU WFBL WFBM WEEA WGR WGST WHEC WHK WHP WISN WJAS WKBH WKBN WLBW WLBZ 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 <br> CKOK KDB KERN KPBK KPPY

 KFRC KGB KHJ KLRA KLZ KMBC KMJ KMOX KOIN KOL KOMA KSCJ KSI, KVI KWG WABC WADC WBT WCAH WCAO WCAU WCCO WDAE WDBO WDOD WDRC WDSU WEAN WFBL WFBM WGN WGR WGST WHAS WHEC WHK WISN WJAS WJSV WKRC WLAC WMT WNAC WOKO WORC WOWO WQAM WREC WSPD WTAR
## R-General Electric Concert

KDYL KFI KFSD KFYR KGO KGW

KHQ KOA KOMO KPRC KSD KSTP KTAR KTBS KTHS WAPI WBEN WCAE WCSH WDAF WDAY WRAF WEBC WENR WFAA WFBR WFI WFLA WGY WHO WIBA WIS WJAR WJAX WJDX WKY WOAL WOC WOW WRC WRVA WSAI WSB WSM WSMB WTAG WTAM WTMJ WWJ WWNO

## B - Warden Lawes-Sing Sing

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

## E-9:30 p.m., C-8:30, M-7:30, P-8:30 C- Pennzoil Parade

CKOK KLRA KMBC KMOX KOMA KTBA WABC WADC WBRC WBT WCAO WCAU WCCO WDRC WEAN WFBL WGN WGR WGST WHAS WHEO WJAS WJSV WKRC WLAC WLBZ WNAC WOKO WSPD

## F - Album of Familiar Music

KDYL KFI KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTHS WAPI WBEN WCAE WCKY WCSH WEAF WENR WFAA WFBR WFI WFLA WGY WHO WIOD WJAR WJAX WJDX WKY WMC WOAI WOC WOW WRC WRYA WEAT WSB WSM WSMB WTAG WTAM WTMJ WWJ

## B - Walter Winchell

KDKA KOIL KSO KWCR KWK KYW WBAL WBZ WBZA WGAR WHAM WJR WJZ WLW WREN
E-9:45 p.m., C-8:45, M-7:45, P-6:45 B - Pickens Sisters
CFCF CKGW KDKA KOIL KSO KWCR KWK KYW WBAL WHAM WJR WJZ WREN WSYR

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 KTBS WBEN WCAE WCKY WCSH WDAF WDAY WEAF WEBC WEEI WFBR WFI WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WKY WMC WOAI WOC WRO 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 WBEN WCAE WCKY WCSH WDAF WEAF WEEI WFBR WHLA WGY WIS WJAR WOW WRC WSAI WTAG WTAM WTIC WWJ WWNC C - Ernest Hutchesen, Pianist
CFRB CKOK KFH KLRA KLZ KMBC KSCJ KTRH KISA KVOR WAAB WABC WADC WBBM WBOM WBIG WBT WCAH WCAO WCAU WCCO WDAE WDBJ WDOD WDRC WDSU WFBL WFBM WFEA WGR WGST WHEO WHK WHP WISN WJAS WKBN WKBW WLBW WLBZ WMBD WMI WNAX WNOX WODX WOKO WORC WPG WQAM WREC WSBT WSIS WBPD WTOC

## B - Vincent Loper; Pratt-Sherman

KDKA KDYL KPI KGO KGW KHQ KOA KOIL KOMO KPRC KSTP KTHS KWK WBAL WBAP WBZ WBZA WGAR WIBA WJDX WJR WJZ WKY WLW WMAQ WOAI WREN WSB WSM WSMB WTMJ

[^10]WCKY WCSH WDAF WEAF WEEI WFBR 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
CFCF OKGW KDYL KFSD KPYR KGHL KGIR KGO KGW KHQ KOA KPRC KSTP KTAR KTBS KTHS KYW WAPI WBAP WBEN WCAE WCKY WCSH WDAF WDAY WEAF WEBC WEEI WFBR WFI WFLAA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WMC WOAI WOC WOW WRC WRVA WSAI WSB WBM WBMB WTAG WTAM WTMJ WWJ WWNC

## B - Orange Lantern, Mystery Drama

KDKA KSO KWCR KWK WBAL WGAR WHAM WJZ WREN

## C- The Gauches

CKOK KFAB KFH KLZ KSCJ KTRH KVOR WAAB WABC WADC WBCM WBRC WBT WCAO WDAE WDBO WDOD WDRC WDSU WEAN WFAN WFBM WGR WHEC WIBW WICC WIP WISN WJAS WJSV WKBN WLBW WLBZ WMBD WNAX WODX WOKO WPG WQAM WSIS 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 WDBI WDBO WDOD WDRC WDSU WEAN WGST WICC WLBZ WNOX WODX WORC WPG WQAM WREC WSIS WTAR WTOC

## E-Walter Winchell

KDYI KPI KGHL KGIP KGO KGW KHQ KOA KOMO KPRO KTAR KTBS KTHS WAPI WBAP WJDX WKY WMC WOAI WSB WEM WSMB

E-11:30 p.m., C-10:30, M-9:30, P-8:30 C-Eddie Duchin and Orchestra
OKOK KFAB KFH KLRA KT,Z KMOX KSCJ KTRH KYOR WAAB WABC WBCM WBRC WCAO WCAU WCCO WDAE WDBJ WDBO WDOD WDRC WDSU WEAN WGST WHK WHP WIBW WICC WISN WKBN WLBW WLBZ WMBD WMT WNAC WNAX WNOX WOKO WPG WQAM WREC WSBT WSJS WSPD WTAR WTOO

## B - Jesse Grawford, Organist

KDKA KOLL KSO KWCR KYW WBAL WBZ WBZA 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 KVOR WABC WBRC WBT WCAU WCCO WDAE WDOD WEAN WGR WIBW WICC WISN WISY WLBW WMBD WNAC WNAX WOKO WPG W8BT WSPD

## B - William Stoess and Orchestra

KFYR KGHL KGO KGW KHQ KOA KOIL KOMO KPRC KSTP KTBS KWCR KWK WBZ WBZA WDAY WEBC WENR WFLA WGAR WHAM WIBA WIOD WIS WJR WJZ WKY WLW WMC WREN WSB WSM WSMB WWNC

## R - Joe Furst and Orchestra

WCAE WEAF WFBR 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, 6:00 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 Haymes, 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 Lopes, 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 Mansfield, 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 McLallen, 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., ()
Roses and Drums, 5:00 p.m., Sunday, C
The Shadow, 8:30 p.m., Wednesday, R
Soconyland Sketches, 8:00 p.m., Monday, R
Squibb's 4:30 p.m., Sunday, R
Wheatenaville, 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 úibson, 8:00 p.m., Saturday, R
Gruen and Hall, 7:00 p.m., Monday, R
Harding Sisters, 6:45 p.m., Tuesday, R
Ernest Hutcheson, 10:15 p.m., Sunday, C
Vee Lawnhurst, $4: 15$ 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
Pond's Program, 9:30 p.m., Friday, R
Roxy's Gang, 12:15 p.m., Sunday, B
Royal Vagabonds, 8:00 p.m., Wednesday, R
Andy Sanella, 6:45 p.m., Wednesday, R
Sinclair 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 Sing, 6:30 p.m. Tuesday, R
National Vespers, 5:00 p.m., Sunday, B
National Youth Conference, $4: 30 \mathrm{p} . \mathrm{m}$., Sunday, B
Our American Music, 3:00 p.m. Sundsy, B
Seth Parker's, 10:45 p.m., Sunday, R
Salt Iake Choir, 12 noon, Sunday, C
Temple of Song, $4: 00$ p.m., Sunday, B

## SINGERS

Frances Aldn, 6:00 p.m., Tuesday, R
Elvia Allman, 7:30 p.m., Monday and Wednesday, R
Ilomay Bailey, $10: 30 \mathrm{p} . \mathrm{m}$., Tuesday and Friday, B
Elizabeth Barthell, 6:00 p.m., Monday, C
Boswell Sisters, $9: 15$ p.m., Saturday,
Fanny Brice, 8:00 p.m., Wedneeday, R
Buecaneers, 11:00 p.m., Saturday, B
Eddie Cantor, 8:00 p.m., Sunday, R
Charles Carlile, $10: 45$ 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; $9: 30 \mathrm{p} . \mathrm{m}$., 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 Moifugh, 10:00 p.m., Friday, B
Jane Froman, 9:00 p.m., Tuesday and Friday, C
Keller, Sargent and Rees, 7:30 p.m. Tues, and Thurs, C
Jeannie Lang, $9: 30 \mathrm{p} . \mathrm{m}$., 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., Mondsy, R
Nine Martino, 11:00 pm. Wedneaday 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, $11: 30 \mathrm{pm}$. Wedneeday, B
Sizzlers Trio, 10:00 p.m., Monday, B
Kate Stnith, 8:30 p.m. Tuesday, Wednesday, Thursday, C
Street Singer, 12:45 p.m., Sunday; 7:45 p.m., Saturday, C
Tastyeast Jesters, $7: 15 \mathrm{pm}$. Monday, B
Three Keys, $6: 30 \mathrm{p} . \mathrm{m}$., Thursday, R; 10:45 p.m. Thesday 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 Monday, 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., Bunday, 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
Publie Affairs Institute, $10: 15 \mathrm{p} . \mathrm{m}$., Saturday, C
Radio in Education, 7:15 p.m., Tuesday, B
Sigmund Spaeth, 10:00 p.m., Tuesday, B
Lowell Thomas, 6:45 p.m., daily, ex. Sat. and Sun., I; 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

a Verifies reception for return postage.
b Verifies only occasionally.
c Does not verify.
d Verification 10 c; letter 25 c.
e Sends Ekko stamp for 10 c.
f Sends Ekko stamp for 5 c .
g Sends Ekko stamp for postage.
h Sends own station stamp for 10 c . 1 Sends own station stamp for 5 c .
$j$ Sends own station stamp for postage.
k Has no stamps.
z No information available.
Fourth Column Symbols
A These stations are synchronized.

B Nationsl "Blue" network.
C Columbis network.
D Daytime only.
Dn Daytime with occasional evening hours.
E Trans-Canada network.
F Canadian National Railways network.
G All Canadian networks.
H Yankee network.
J Orange and gold network.
K Mexican networks.
L Canadian Pacific Ry, network (Dominion).
M Canadian Radio Corp, network.
N National "Red" and "Blue" networks.

P Has construction permit only.
Q Great Lakes network.
R National "Red" network.
S Sunday only.
T Don Lee System.
U Dixie network.
V Maritime Broadeasting network
W Curtis-Indiana network.
X Has permit to increase power.
Y Has permit to change location.
Z Has permit to change frequency.
a-b-c. Small letters show stations using same transmitter.
$1-2-3$. Figures denote stations sharing time.
No information.

## NOTICE OF COPYRIGHT

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FOR KEY TO SYMBOLS SEE PAGE 45
540 kilocycles 555.2 meters

| CKOK | ae | 5000 | CG | Windsor, Ont. |
| :--- | :--- | ---: | :--- | :--- |
| XEY | $z$ | 105 | 546.8 | Merida, Mex. |

Essex Broadcasters, Ltd.
Partido Socialista S. E.

550 kilocycles 545.1 meters

| KFDY | ae | 1000 | 1 |
| :--- | :--- | ---: | :--- |
| KFUO | ae | 1000 | $2(1)$ |
| KFYR | ah | 1000 | $1 \mathrm{~N}(2.5)$ |
| KOAC | ak | 1000 | a |
| KO. |  |  |  |
| KSD | ak | 500 | 2R |
| WDEV | ae | 500 | D |
| WGR | ae | 1000 | C |
| WKRC | ak | 1000 | C |

Brookings, S. D.
St. Louis, Mo.
Bismarck, No. Dakota Meyer Broadcasting Co.
Corvallis, Ore.
St. Louis, Mo.
Waterbury, Vt.
Buffalo, N. Y.
Cincinnati, Ohio

Evangelical Lutheran Church


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

560 kilocycles 535.4 meters

| KFDM | ak | 500 | (1) |
| :--- | :--- | ---: | :--- |
| KLZ | ae | 1000 | C |
| KTAB | ae | 1000 | Y |
| WFI | ae | 500 | 1R |
| WIBO | ae | 1000 | $(1.5)$ a |
| WLIT | ak | 500 | 1R |
| WNOX | ak | 1000 | C( 2$)$ |
| WPCC | ak | 500 | Sa |
| WQAM | ae | 1000 | C |
| XEAO | $z$ | 7.5 | $\ldots . .$. |

Beaumont, Texas
Denver, Colo.
San Francisco, Calif.
Philadelphia, Pa.
Chicago, Ill.
Philadelphia, Pa.
Knoxville, Tenn.
Chicago, Ill.
Miami, Fla.
Mexicali, Mex.

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 Congregatlonal Church
Miami Broadcasting Co.
Luis L. Castro

## 570 kilocycles 526.0 meters

| HIX | ah | 1000 | 579 | Santo Domingo, D. R. | The Dominican Gover |
| :---: | :---: | :---: | :---: | :---: | :---: |
| KGKO | $z$ | 250 | (.5) | Wichita Falls, Texas | Wichita Falls Broadcasting Co. |
| KMTR | aeh | 500 |  | Hollywood, Calif. | KMTR Radio Corp. |
| KVI | ae | 500 | C | Tacoma, Wash. | Puget Sound Broadcasting Co. |
| WEAO | ae | 1000 | 1 | Columbus, Ohio | Ohio State University |
| WKBN | ak | 500 | 1 C | Youngstown, Ohio | WKBN Broadcasting Corp. |
| WMCA | ak | 500 |  | New York, N. Y. | Knickerbocker Broadcasting Co., Inc. |
| WNAX | ae | 1000 | C(2.5) | Yankton, S. D. | House of Gurney, Inc. |
| WNYC | ak | 500 | 3 | New York, N, Y. | Dept. of Plant \& Structures |
| WSYR | ak | 250 | B2 | Syracuse, N. Y | Central N. Y. Brdestg. Corp.,(WMAC) |
| WWNC | ae | 1000 | N | Asheville, N. C. | Citizens Broadcasting Co., Inc. |

580 kilocycles 516.9 meters

| CFCY | ae | 500 | E | Charlottetown, P. E. I. | Island Radio Broadcasting Co., Ltd. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CHMA | ak | 250 | 4S | Edmonton, Alta. | Christian \& Missionary Alliance |
| CKCL | aj | 500 |  | Toronto, Ont. | The Dominion Battery Co. |
| CKUA | ak | 500 | 4F | Edmonton, Alta. | University of Alberta |
| CMDD | 2 | 150 | 588 | Havana, Cuba | G. deSequeira |
| KMJ | ak | 500 | CT | Fresno, Calif. | McClatchy Radio Stations (Fresno Bee) |
| KSAC | ak | 500 | 2(1) | Manhattan, Kans. | State Agricultural College |
| WDBO | ae | 250 | CU | Orlando, Fla. | Orlando Broadcasting Co., Inc. |
| WIBW | ae | 1000 | C 2 | Topeka, Kans. | Topeka Brodestg Assn., Inc. |
| WOBU | ak | 250 | 1 (.5) | Charleston, W. Va. | WOBU, Inc., Ruffner Hotel |
| WSAZ | ak | 250 | 1 (.5) | Huntington, W. Va. | WSAZ, Inc. |
| WTAG | ae | 250 | $\mathrm{R}(.5)$ | Worcester, Mass. | Worcester Telegram Pub. Co., In |
| XEPN | z | 100000 | 585 | Piedras Negras, Mex. | (Yolanda Hotel), Eagle Pass, Texas |

590 kilocycles 508.2 meters

| CJGC | ae | 5000 | $595 G Z$ | London, Ont. <br> CMW |
| :--- | :--- | ---: | :--- | :--- |
| ae | 1400 | $\cdots \cdots .$. | Havana, Cuba |  |
| KHQ | ak | 1000 | N(2) | Spokane, Wash. |
| WCAJ | ae | 500 | 1 | Lincoln, Neb. |
| WEEI | ak | 1000 | R | Boston, Mass. |
| WKZO | ae | 1000 | D | Kalamazoo, Mich. |
| WOW | aeh | 1000 | 1R | Omaha, Neb. |

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

600 kilocycles

| CNRO | ak | 500 | F |
| :--- | ---: | ---: | :--- |
| KFSD | ah | 1000 | N |
| WCAC | ak | 250 | 2 |
| WCAO | ae | 250 | C |
| WICC | ae | 250 | $2 \mathrm{H}(.5) \mathrm{C}$ |
| WMT | ak | 500 | C |
| WREC | $z$ | 500 | $\mathrm{C}(1)$ |

Ottawa, Ont. San Diego,' Calif. Storrs, Conn. Baltimore, Md. Bridgeport, Conn. Waterloo, Iowa
Memphis, Tenn.
$\square$ KCYS. 680
Canadian National Railways MTRS. 440.9 DIAL

Airfan Radio Corp.
Connecticut Agricultural College Monumental Radio Co. Bridgeport Bdetg. Station, Inc. Waterloo Broadcasting Co. WREC, Inc.

610 kilocycles 491.5 meters

| KFRC | ae | 1000 | C |
| :--- | :--- | ---: | :--- |
| WDAF | ae | 1000 | R |
| WIP | ak | 500 | C |
| WJAY | ae | 500 | D |
| XETR | $z$ | 1000 | $\ldots$ |

San Francisco, Calif.
Kansas City, Mo.
Philadelphia, Pa.
Cleveland, Ohio
Mexico City, Mexico

620 kilocycles 483.6 meters

| KGW | ae | 1000 | N | Portland, Ore. <br> KTAR |
| :--- | :--- | ---: | :--- | :--- |
| ae | 500 | $\mathrm{NJ}(1)$ | Phoenix, Ariz. |  |
| WFLA | ae | 1000 | $\mathrm{Na}(2.5)$ | Clearwater, Fla. |
| WLBZ | ak | 500 | C | Bangor, Maine |
| WSUN | ae | 1000 | $\mathrm{Na}(2.5)$ | St. Petersburg, Fla. |
| WTMJ | ae | 1000 | $\mathrm{~N}(2.5)$ | Milwaukee, Wis. |

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

## 630 kilocycles 475.9 meters

| CFCT | ae | 500 | G |
| :--- | :--- | ---: | :--- |
| CJGX | ae | 500 | FL |
| CKOC | ae | 1000 | $635 a G$ |
| CKTB | ae | 1000 | 635 aL |
| CMCU | $z$ | 150 | $\cdots \cdots$ |
| CMQ | $z$ | 250 | $\ldots \ldots$. |
| CNRA | ae | 700 | F |
| KFRU | ak | 500 | 1 |
| KGFX | $z$ | 200 | D |
| WGBF | ae | 500 | W -1 |
| WMAL | ae | 250 | $(.5)-B$ |
| WOS | ak | 500 | 1D |
| XBTF | ak | 500 | K |
| XFG | $z$ | 2000 | 638.3 |

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

|  |
| :--- |
| Victoria Broadcasting Assn. |
| Winnipeg Grain Exchange |
| Wentworth Radio Bdctg. Co., Ltd. |
| Wnt. $\quad$ Wentworth Radio Bdetg. 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 |
| M. Mico Manuel Angel Fernandez |
| Mria. de Guerra y Marina |

640 kilocycles 468.5 meters

| CHRC | ak | 100 | 645 aG | Quebec, Que. |
| :--- | ---: | ---: | :--- | :--- |
| CKCI | ck | 100 | 645 a | Quebec, Que. |
| CKCR | ak | 100 | 645 G | Waterloo, Ont. |
| KFI | ah | 50000 | N1 | Los Angeles, Calif. |
| WAIU | ae | 500 | 1 | Columbus, Ohio |
| WOI | ae | 5000 | D | Ames, Iowa |

650 kilocycles 461.3 meters
KPCB ae 100 if.... Seattle, Wash.

WSM aej 50000 in $^{\text {K... Nashville, Tenn. }}$
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 | $\ldots \ldots .$. | Havana, Cuba |
| RUS | $z$ | 500 | 664 | Salvador |
| WAAW | agh | 500 | D | Omaha, Neb. |
| WEAF | ak | 50000 | R | New York City |
| XEM | $z$ | 500000 | $\ldots . .$. | Matamoros, Mex. |

670 kilocycles
WMAQ ae 5000 N
447.5 meters

Chicago, III.
CHRC, Ltd., Victoria Hotel
Le Soleil, Ltd.
Mitchell \& Liddle
Earla C. Anthony, Inc.
Associated Radiocasting Corp.
State College of Agriculture


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

680 kilocycles 440.9 meters


# INDEX BY FREQUENCIES AND DIAL NUMBERS 

690 kilocycles 434.5 meters $\quad \square$

CFAC ak 500 1G Calgary, Alta. CFRB ae 10000 CM Toronto, Ont.
CJCJ ak 500 LLE Calgary, Alta. NAA $=1000$...... Arlington, Va. VAS $z 2000$ 685(4) GlaceBay, N. S.
XET
428.3 meters

700 kilocycles
wLw ae 50000 N

Calgary Herald, Ltd.
Rogers-Majestic Corp., Ltd.
Albertan Publishing Co., Ltd.
U. S. Navy

Canadian Marconi Co.
Cadena Radio Difusora Mexicana S. A.

The Crosley Radio Corporation

KMPC ae 500 Dn Beverly Hills, Calif

| WOR | ak | 5000 | X |
| :--- | :--- | :--- | :--- |
| XEN | agj | 1000 | 711 K |

Newark, N. J. Mexico City
R. S. MacMillan

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

720 kilocycles 416.4 meters WGN ak 25000 C Chicago, III.
 730 kilocycles 410.7 meters

| CHLS | ak | 100 | lb |
| :--- | :--- | ---: | :--- |
| CHYC | $z$ | 5000 | Sa |
| CKAC | ak | 5000 | CaM |
| CKCD | $z$ | 100 | 1 b |
| CKFC | ak | 50 | 1 |
| CKMO | $z$ | 100 | 1 |
| CKWX | ak | 100 | 1 l |
| CMK | aeh | 3150 | 1 l |
| XEF-XER | $z$ | 75000 | $735-6.6$ |

Vancouver, B. C.
Montreal, Que.
Montreal, Que.
Vancouver, B. C.
Vancouver, B, C.
Vancouver, B. C.
Vancouver, B, C.
Havana, Cuba
Villa Acuna, Mexico

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

| CICA | ae | 500 | 745EL |
| :--- | :--- | ---: | :--- |
| KMMJ | bk | 1000 | Dn |
| WSB | aeh | 5000 | N |
| WHEB | ak | 250 | D |

$\begin{array}{llrr}\text { WSB } & \text { ach } & 5000 & \text { N } \\ \text { WHEB } & \text { ak } & 250 & \text { D }\end{array}$
Portsmouth, N. H.


760 kilocycles 394.5 meters

| KXA | 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 | IC |
| WBBM ae | 25000 | IC | Lincoln, Neb. |
| Chicago, III. |  |  |  |


| 780 |  | cle |  | 4 meters |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CKY | 2 | 5000 |  | Winnipeg, Man. |  | Telephone Sy |  |
| CMBS | $z$ | 150 |  | Havana, Cuba | Enrique | Artalejo |  |
| CMELW | ${ }_{\text {e }}^{\text {el }}$ | 1000 500 |  | Havana, Cuba | Andres M | Martinez Park, Ltd. |  |
| KTM | ee | 500 | 2 (1) | Los Angeles, Cailif. | Pickwick | Broadcasting C | Corp., Ltd. |
| WEAN | ak | 500 | CH | Providence, R. I. | Shepard | Broadcasting S | rvice, Inc. |
| WMC | ak | 500 | $\mathrm{N}(1)$ | Memphis, Tenn. | Memphis | Commercial A | ppeal, Inc. |
| WPOR | aeh | 500 500 | b ${ }_{\text {b }}$ | Portsmouth, Va. Norfolk, Va. | WTARR | Radio Corp. (Nor | folk) |
| XEP | ${ }_{z}$ | 1000 |  | Mexico City | Cia. Difusor | ra de Mexico S. |  |
| 790 | ilo | cle |  | 5 meters |  |  |  |



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

## INDEX BY FREQUENCIES AND DIAL NUMBERS





| VOGT |  | 400 | 893 | Wabana, N. F. | The Gaiety Theatre |
| :--- | :--- | :--- | :--- | :--- | :--- |
| WGST | ae | 250 | C(.5) | Atlanta, Ga. | Southern Broadcasting Co. |
| WILL | ak | 250 | $2(.5)$ | Urbana, Ill. | University of Illinois |
| WJAR | ae | 500 | R | Providence, R. I. | The Outlet Co. |
| WJMMN | aeh | 250 | (.5) | Fairmont. W. Va. | A. M. Rowe, Inc. |
| XBIU | z | 100 | $\ldots . .$. | Pachuca, Mexico | Rodrigo Mariquez |

900 kilocycles 333.1 meters

| KGBU | ak | 500 |  |
| :--- | :--- | ---: | :--- |
| KHJ | ae | 1000 | C̈T |
| 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.

|  |
| :--- |
| $\quad$ Alaska Radio \& Service Co. |
| Don Lee Broadcasting System |
| WBEN, Inc, Buffalo Evening News |
| Wity of Jacksonville |
| Okla. Okklahoma Publishing Co. |
| is. Wis. Dept. Agriculture \& Markets |

## 910 kilocycles 329.6 meters

| CFQC | $\Sigma$ | 500 |  | Saskatoon, |
| :---: | :---: | :---: | :---: | :---: |
| CFLC | ae | 100 | 915 | Prescott, O |
| TICR | $z$ | 50 | 911 | San Jose, Costa Rica |
| XEW | ak | 5000 |  | Mexico City, Mexico |
| XFF | , | 500 | 915 | 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 |
| CMDB | $z$ | 250 | 925 |
| HHK | $z$ | 1000 | $\ldots \ldots$ |
| KFEL | ak | 500 | $\mathrm{i}^{2}$ |
| KFXF | ae | 500 | 1 |
| KOMO | aj | 1000 | N |
| KPRC | ae | 1000 | $\mathrm{~N}(2.5)$ |
| WAAF | ak | 500 | D |
| WBSO | ae | 500 | D |
| WWJ | ak | 1000 | R |

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

The Gaiety Theatre
Southern Broadcasting Co.
University of Illinois
Re Rlet
A. M. Rowe, Inc.

Rodrigo Mariquez

Alaska Radio \& Service Co.
Don Lee Broadcasting System
WBEN, Inc., Buffaio Evening News
Oklahoma Publishing Co.
Wis. Dept. Agriculture 8 Markets

|  |
| :--- |
| The Electric Shop, Ltd. <br> Radio Association of Prescott |
| Rica |
| Cadena Radio-difusora Mexicana S. A. <br> Gobierno del Estado de Chihuahua |

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

930 kilocycles 322.4 meters

| CFCH | ak | 100 | 3LM | North Bay, Ont. | Northern Supplies, |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CFRC | ak | 50 | 3(.2) | Kingston, On | Queen's University |
| CKX | ak | 500 | E | Brandon, Manitoba | Manitoba Telephone System |
| CMJF | z | 200 |  | Camaguey, Cuba | John L. Stowers |
| KFWI | aj | 500 |  | San Francisco, Calif. | Radio Entertainments, Ltd. |
| KGBZ | ak | 500 | $2(1)$ | York, Neb. | Dr. Geo. R. Miller |
| KMA | ae | 500 | $2(1)$ | Shenandoah, Iowa | Earl E. May Seed \& Nursery Co. |
| KROW | ak | 500 | 1 (1) | Oakland, Calif. | Educational Broadcasting Corp |
| WBRC | ak | 500 | C(1) | Birmingham, Ala. | Birmingham Bdetg. Co., Inc. |
| WDBJ | ae | 250 | C(.5) | Roanoke, Va. | Times-World Corp. |
| WIBG | ae | 25 | D | Glenside, Penna. | WIBG, Inc. (Keswick Bldg.) |

940 kilocycles 319.0 meters

| KOIN | zk | 1000 | CT | Portland, Ore. | KOIN, Inc. (New Heachman Hocel) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| WAAT | ae | 300 | D | Jersey City, N. J. | Bremer Broadcasting Corp. |
| WCSH | ae | 1000 | R(2.5) | Portland, Maine | Congress Square Hotel Co. |
| WDAY | ee | 1000 | N | Fargo, No. Dakota | WDAY, Inc. (Black Bldg.) |
| WFIW | ak | 1000 | C | Hopkinsville, Ky. | WFIW, Inc. |
| WHA | ak | 1000 | D | Madison, Wis. | University of Wisconsin |
| XEFO | ak | 5000 | (3.5) | Mexico City, Mexico | National Revolucionario Party (XFO) |


| CMHD | z | 250 |  | Caibarien, Cuba |
| :---: | :---: | :---: | :---: | :---: |
| KFWB | ak | 1000 |  | Los Angeles, Calif. |
| KGHL | ak | 1000 | $\mathrm{NJ}(2.5)$ | Billings, Mont. |
| KMBC | ae | 1000 | C | Kansas City, Mo |
| VONA | $z$ | 100 |  | St. John's, N. F |
| WRC | ak | 500 | N | Washington, D. C. |

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

960 kilocycles 312.3 meters

| CHCK | ak | 100 | V | Charlottetown |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CHWC | ak | 500 | 3FL | Regina, Sask. | R. H. Williams \& Sons, Ltd. |
| CKCK | nk | 500 | 3 FL | Regina, Sask. | Leader Post, Led. (Leader Bldg.) |
| CKNC | ak | 500 | M | Toronto, Ont. | Canadian National Carbon Co., Ltd. |
| CMAY | $z$ | 150 | 965 | Havana, Cuba | Efigenio Oliver |
| CMBD | $z$ | 150 | 965 | Hevana, Cuba | Luis Perez Garcia |
| CMCW | ak | 150 | 965 | Havana, Cuba | Vilarino y Cervantes |
| XEAW | z | 10000 | 965 | Reynosa, Mexico | International Broadcasting Co. |
| CMIL | $z$ | 50 |  | Camaguey, Cuba | Enrique Artimes |
| YVIBC | ak | 5000 |  | Caracas, Venezuela | Broadcasting Caracas |



Fishers Blend Station, Inc.
Chicago Federation of Labor


The Voice of the Prairies, Ltd.
Bernabe R. de la Torre
Westinghouse Elec. $8: \mathrm{Mfg}$. Co.

| 990 | kilocycles | 302.8 meters | 1 |
| :---: | :---: | :---: | :---: |
| $\begin{gathered} \mathrm{WB} \text { WB } \\ \mathrm{x} \\ \mathrm{x} \\ \hline \end{gathered}$ |  | Boston, Mass. Springfield, Mas | Westinghouse Elec. \& Mfg. Westingousse Elec. \& Mig. Arturo Martinez |

1000 kilocycles 299.8 meters $\square$

| KFVD | ak | 250 | Dn | Los Angeles, Calif. | Los Angeles Broadcasting Co. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| WHO | $z$ | 5000 | RAX | Des Moines, Iowa | Central Broadcasting Co. |
| WOC | ak | 5000 | RAX | Devenport, Iowe | Central Broadcasting Co. |
| WORK | aj | 1000 | D | York. Pa. | York Broadcasting Co. |
| XEA | ak | 100 |  | Guadalajara, Mexico | Radiofonografica de Guadalajara, S.A. |
| XEC | $z$ | 50 |  | Toluca. Mexico | Jesus R. Benavides |
| XEFE | $z$ | 100 |  | N. Laredo, Tams., Mex. | Rafael T. Carranza |
| XEFI | $z$ | 100 |  | Chihuahua, Mexico | Feliciano Lopez Islas |
| XEFJ | $z$ | 100 |  | Monterrey, Mexico | Rodolfo Junco de la Vega |
| XEFS | $z$ | 40 |  | Queretaro, Mexico | Salvador Sanchez |
| XEL | ak | 10 |  | Saltillo, Mexico | Antonio Garza Castro y J. T. Perez |
| XETC | $z$ | 100 |  | Jalape, Ver.. Mexico | Juventino Sanchez |

1010 kilocycles 296.9 meters

| CFCO | ak | 250 | $\ldots \ldots$. | Chatham, Ont. |
| :--- | :--- | :--- | :--- | :--- |
| CKIC | ak | 50 | $\ldots \ldots \ldots$ | Wolfville, N, S. |
| CMBZ | ak | 150 | $\ldots \ldots$. | Havana, Cuba |
| CMCX | $z$ | 150 | $\ldots \ldots$ | 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 | $1 a$ | New York City |
| WRNY | $z$ | 250 | 1 | New York City |
| XEJ | ak | 500 | K1015 | Juarez, Mexico |
| XEU | ak | 100 | $\ldots \ldots .$. | Veracruz, Mexico |



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 Aflande
Baltasat Pazos Sosa

1020 kilocycles 293.9 meters

| KYW | ae | 10000 | N | Chicago, III. <br> WRAX |
| :--- | :---: | ---: | :--- | :--- |
| ae | 250 | D | Philadelphia, Pa. |  |
| WRFC | $z$ | 10 | $\ldots \ldots$ | Merida, Yuc, |
| XEF | $z$ | 300 | $\ldots \ldots$ | Tiajuana, Mex. |

Westinghouse Elec. \& Mfg. Co. (KFKX) WRAX Broadcasting Co.
Hugo Molina Font
Carlos de la Sierra

1030 kilocycles 291.1 meters

| CFCF | ae | 500 | NG |
| :--- | :--- | ---: | :--- |
| CMHI | ck | 30 | a |
| CMKC | $z$ | 150 | $1034 a$ |
| CNRV | ak | 500 | $\ldots \ldots$. |
| XEB | ak | 10000 | $\ldots \ldots .$. |

Montreal, Que. Santa Clara, Cuba Santiago de Cuba Vencouver, B. C. Merico City, Mexico

Canadian Marconi Co.
Laviz \& Paz
Pinol Batlle y Co.
Canadian National Railways
El Buen Tono, S. A.

## 1040 kilocycles 288.3 meters

| $\begin{aligned} & \text { CMGH } \\ & \text { KRLD } \end{aligned}$ | $z$ | 15 10000 | 119 | Matanzas, Cuba Dallas, Tex. | O. y J. Alvarez KRLD Radio Corp. (Adolphus Hotel) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| KTHS | ae | 10000 | 1N | Hot Springs, Ark. | Chamber of Commerce |
| WESG | ae | 1000 | D | Elmira, N. Y. | WESG, Inc. |
| WKAR | ae | 1000 | D | East Lansing, Mich. | Michigan State College |
| 1050 kilocycles |  |  |  |  |  |
| CMJG | $z$ | 50 |  | Camaguey, Cuba | Jose Antonio Lefran |
| KFBI | ae | 5000 | Dn | Abilene, Kans. | Farmers \& Bankers Life Ins. Co. |
| KNX | ae | 25000 | X | Hollywood, Calif. | Western Broadcast Co. |
| XES | dk | 250 | 1055 K | Tampico, Mexico | Difusora Portena |

## INDEX BY FREQUENCIES AND DIAL NUMBERS

| KWJJ | $z$ | 500 | Dn |
| :--- | :--- | ---: | :--- |
| WBAL | ae | 10000 | 1B |
| WJAG | ak | 1000 | Dn |
| WTIC | ak | 50000 | IR |

Portland, Ore.
Baltimore, Md.
Norfolk, Neb.
Hartford, Conn.

KWJJ Broadcast Co., Inc.
Consolidated Gas, Elec. L. \& Pwr. Co. Norfolk Daily News
Travelers' Bdetg. Service Corp.

1070 kilocycles 280.2 meters

| CMBG | $z$ | 225 | .... | Havana, C |
| :---: | :---: | :---: | :---: | :---: |
| CMCB | af | 150 100 |  | Havana, Cuba San Francisco, |
| WCAZ | ae | 50 | D | Carthage, III. |
| WDZ | ak | 100 | D |  |
| WTAM | ak | 50000 | R | Cleveland, Ohio |
| XE | $z$ | 500 | 1075 | Mexico City, Me |
| 1080 kilocycles |  |  |  | 277.6 meters |
| WBT ${ }_{\text {WCBD }}$ | ae ae er | 25000 5000 | cU | Charlotte, N. C. zion, III. |
| WMBI | ck | 5000 | 1 Dn | Chicago, III. |

John L. Stowers
Metropolitan-Radio de Cuba
Julius Brunton \& Sons Co.
Superior Bdetg. Service, Inc.
James L. Bush
National Broadcasting Co., Inc.
Ricardo Gonzales Montero

| $\mid$ |
| :--- |
| Station WBT, Inc. |
| Wibur Glenn Voliva |
| Moody Bible Institute |

$\begin{aligned} 1090 & \text { kilocycles } \\ \text { KMOX ak } 50000 & \text { c }\end{aligned}$ Mexico City, Mex.

| $\mid$ |
| :---: |
| $\substack{\text { Voice of St. Louis, Inc. } \\ \text { Carlos Gonzales Caballero }}$ |


|  |  |  |  |
| :--- | :--- | :--- | :--- |
| 1100 | kilocycles |  |  |
| KGDM | ak | 250 | D |
| WLWL | ae | 5000 | 1 |
| WPG | ae | 5000 | 1C |

272.6 meters
Stockton, Calif. New York City Atlantic City, N. J.

E. F. Peffer

Missionary Society of St. Paul
Municipality of Atlantic City

## 1110 kilocycles 270.1 meters

| CMJO | $z$ | 50 |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | e | 00 | Dn( |  |
| WR | ae | 5000 |  |  |
| XENT | e | 150000 | 111 | Neuvo Laredo, |

Rey-Borges
Sioux Falls Broadcast Assn., Inc.
Larus \& Bros. Co., Inc.
Compania Industrial Universal, S. A

| 1120 | kilocycles |  |  |
| :--- | :--- | :--- | :--- |
| CFCA | ak | 500 | G |
| CFJC | ak | 100 | EL |
| CHGS | ce | 100 | VX |
| CJOC | ak | 100 | ii. |
| CMHJ | ae | 40 | iis |
| KFIO | ae | 100 | D |
| KFSG | ak | 500 | a |
| KRKD | aeh | 500 | a |
| KRSC | ak | 100 | D |
| KTRH | ak | 500 | $2 C$ |
| WDEL | aj | 250 | (.5) |
| WHAD | ae | 250 | 1 C |
| WISN | ak | 250 | 1 C |
| WTAW | ae | 500 | 2 |

## 267.7 meters

Toronto, Ont.
Kamloops, B. C.
Summerside, P. E. I
Lethbridge, Alta.
Cienfuegos, Cuba Spokane, Wash. Los Angeles, Calif. Los Angeles, Calif. Seattle, Wash. Houston, Tex. Wilmington, Del. Milwaukee, Wis. Milwaukee, Wis. 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


1140 kilocycles 263.0 meters

| CMBJ | $z$ | 150 | $\ldots \ldots$ |
| :--- | :--- | ---: | :--- |
| CMCD | aeh | 250 | ..... |
| KVOO | ae | 5000 | iN |
| WAPI | aj | 5000 | iN |
| XBTA | $z$ | 250 | $\ldots .$. |

## 1150 kilocycles 260.7 meters

| CMJH | ak | 30 |  |
| :--- | :---: | ---: | :--- |
| WHAM | ae | 5000 | BXX |
| XED | $z$ | 500 | 1155 |
| 10-AT | ak | 25 | 1155 |

Ciego de Avila, Cuba
Rochester, N. Y.
Guadalajara, Mex.
Trail, B. C.

Emilio Perera
Angel Bertematy y Garcia
Southwestern Sales Corp.
WAPI Broadcasting Corp.
Manuel Espinosa Tagle



1200 kilocycles

| CHCH | $z$; | 100 | 2 | Montreal, Que. | Montreal Radio Corp. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CHLP | $z$ | 100 | 2 | Montreal, Que. | La Patrie, Ltd. |
| CKOV | ${ }^{\text {ak }}$ | 100 |  | Kelowna, B. C. | Okanagan Broadcasters, Ltd. |
| CMGB | ${ }_{\text {ak }}$ | 30 100 | $\mathrm{D}^{1205}$ | Matanzas, Cuba | Jose Anorga Beard's Temple of Music |
| KBTM | ${ }_{\text {ak }}^{\text {ak }}$ | 100 100 | ${ }_{\text {CT }}$ | Paragould, Ark. | Bee Bakersfield Broadcasting Co. |
| KFJB | ak | 100 | (.25) | Marshalltown, Iowa | Marshall Electric Co., Inc. |
| KFWF | ak | 100 |  | St. Louis, Mo | St. Louis Truth Center, Inc. |
| KFXD | ae | 100 |  | Nampa, Idaho | Frank E. Hurt (R/C Boise) |
| KFXJ | ak | 100 |  | Grand Junction, Colo. | Western Slope Brdcstg. Co. |
| KGDE | ae | 100 | (.25) | Fergus Falls. Minn. | Jaren Drug Co. |
| KGEK | ak | 100 |  | Yuma, Colo. | Beehler Electrical Equipment Co. |
| KGEW | ak | 100 | 9 | Ft. Morgan, Colo. | City of Fort Morgan |
| KGFJ |  | 100 |  | Los Angeles, Calif. | Ben. S. McGlashan |
| KGHI | ak | 100 |  | Little Rock, Ark. | Lloyd Judd Co. |
| KGVO | ak | 100 |  | Missoula, Mont. | Mosby's, Inc. |
| KMLB | ae | 100 |  | Monroe, La. ${ }^{\text {Lelling }}$ | Liner's Broadcasting Station, Inc. |
| KWG | ${ }^{2}$ | 100 | CT | Bellingham, ${ }^{\text {Sto }}$, ${ }^{\text {Stosh, Calif. }}$ | McClatchy ${ }^{\text {K }}$ Newspapers |
| WABI | ak | 100 |  | Bangor, Maine | First Universalist Society |
| WABZ | ak | 100 | 1 | New Orleans, La. | Samuel D. Reeks |
| WBBZ | ak | 100 |  | Ponca City, Okla. | C. L. Carrell (R/C various cities) |
| WBHS | ak | 100 |  | Huntsville, Ala | Radio Station WBHS, Inc. |
| WCAT | ak | 100 | D | Rapid City, S. D. | State School of Mines |
| wCAX | ak | 100 |  | Burlington, Vt. | Burlington Daily News |
| wCLO | ak | 100 |  | Janesville, Wis. | WCLO Radio Corp. (R/C Beioit) |
| WCOD | ae | 100 |  | Harrisburg, Pa. | Keystone Broadcasting Corp. |
| WFAM | ak | 100 |  | South Bend, Ind, | South Bend Tribune (WSBT) |
| WFBC | $z$ | 100 | (.25)4 | Greenville, S. C. | News-Piedmont Co. |
| WFBE | ak | 100 | (.25) | Cincinnati, Ohio | Radio Station WFBE, Inc. |
| WHBC | ak | 10 |  | Canton, Ohio | Edward P. Graham |
| WHBY | ak | 100 |  |  |  |
| $\begin{aligned} & \text { WIBX } \\ & \text { WIL } \end{aligned}$ | ae | 100 100 | 5(.25) | Utica, N. Y. <br> St. Louis Mo. | WIBX, Inc. <br> Missouri Broadcasting Corp. |
| WJBC | ae | 100 |  | LaSalle, III. | Kaskaskia Broadcasting Co. |
| WJBL | ae | 100 | 6 | Decatur, III. | Commodore Broadcasting, In |
| WJBW | ak | 100 |  | New Orleans, La | C. C. Carlson |
| WKJC | ae | 100 |  | Lancaster, Pa. | Lancaster Bdetg. Service, Inc. |
| WLAP | ae | 100 | (.25) | Louisville, Ky. | American Broadcasting Corp. of Ky. |
| WNBO | aeh | 100 |  | Washington, Pa. | Spriggs Symplex |
| WNBW |  | 10 |  | Carbondale, Pa. |  |
| WORC | ak | 100 100 | ${ }_{\text {CH }}^{\text {(.25) }}$ | Worcester, Mass. <br> Petersburg, Va. | A. F. Kleindienst WLBG, Inc. |
| WRBL | ak | 100 |  | Columbus, Ga. | WRBL'Radio Station, Inc. |
| WWAE | aeh | 100 | 8 | Hammond, Ind. | Hammond-Calumet Bdetg. Corp. |
| $10-\mathrm{AB}$ | ak | 25 |  | Moose Jaw, Sask. | Moose Jaw Radio Assn. |
| 10-AK | ak | 15 |  | Stratford, Ont. | M. I. Higgins Elec. \& Radio Co. |
| 10-BI | ak | 25 |  | Prince Albert, Sask. | Prince Albert Radio Club |
| 10-BP | ak | 25 | 1199 | Wingham, Ont. | W. T. Cruickshank |
| 10-BO | ${ }^{\text {ak }}$ | 15 |  | Brantford, Ont. | Tom Brown \& Harold Brown |
| 10-BU |  | 15 |  | Canora, Sask. | Canora Radio Assn. |
| 1210 | ilo | yc |  | . 8 meters |  |

KCys. 1210 MTRS. 247.8 DIAL

# 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. | B. M. Woody (Casa Grande Hotel) |
| KDLR | ak | 100 |  | Devils Lake, N. Dak. | KDLR, Inc. |
| KFJI | ak | 100 |  | Klamath Falls, Ore. | KFJI Broadcasters, Inc. |
| KFOR | ak | 100 | (.25) | Lincoln, Neb. | Howard A. Shuman |
| KFPW | ak | 100 |  | Fort Smith, Ark. | Southwestern Hotel Co. |
| KFVS | ae | 100 |  | Cape Girardeau, M | 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 |  | Wilkes-Barre, Pa. | John H. Stenger, Jr. (Morris Bldg. |
| WBBL | ak | 100 | 7 S | Richmond, Va. | Grace Covenant Pres. Church |
| WCBS | ak | 100 | 2 | Springfield, III. | WCBS, Inc. |
| WCRW | ae | 100 | 4 | Chicago, III. | Clinton R. White |
| WEBQ | ae | 100 | 6 | Harrisburg, Ill. | Harrisburg Broadcasting Co. |
| WEDC | $z$ | 100 | 4 | Chicago, III. | Emil Denemark, Inc. |
| WFAS | ak | 100 | 3 | White Plains N. Y. | Westchester Broadcasting Corp. |
| WGBB | ae | 100 | 3 | Freeport, N. Y. | Harry H. Carman |
| WGCM | ae | 100 |  | Gulfport, Miss. | Great Southern Land Co. |
| WGNY | - | 50 |  | Chester, $\mathrm{N} . \mathrm{Y}$. | 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 |  | Poynette, Wis. | Wm. C. Forrest |
| WJBI | ak | 100 |  | Red Bank, N. J. | Monmouth Broadcasting Co., Inc. |
| WJBU | ae | 100 | 1 | Lewisburg, Pa. | Bucknell University |
| WJBY | aeh | 100 |  | Gadscen, Ala. | Ingrams Broadcasting Co. |
| WJEJ | aeh | 100 | D | Hagerstown, Md. | A. V. Tidmore |
| W)W | ae | 100 |  | Akron, Ohio | W JW, Inc. |
| WKFI | ak | 100 |  | Greenville, Miss. | J. Pat Scully |
| WMBG | aj | 100 | 7C | Richmond, Va. | Havens 8 Martin, Inc. |
| WOCL | ak | 50 |  | Jamestown, N. Y. | A. B. Newton |
| WOMT | ae | 100 |  | Manitowoc, W is. | Francis Mangin Kadow |
| WPAW | ak | 100 | aY | Providence, R. I. | Cherry \& Webb Broadcasting Co. |
| WPRO | ak | 100 | aY | Providence, R. I. | Cherry \& Webb Broadcasting Co. |
| WQDX | $z$ | 100 |  | Thomasville, Ga. | Stevens Luke |
| WSBC | $z$ | 100 | 4 | Chicago, IIl. | WSBC, Inc. |
| WSEN | ak | 100 |  | Columbus, Ohio | Columbus Bdetg. Corp. (Seneca Hotel) |
| WSIX | se | 100 |  | Springfield, Tenn. | 638 Tire \& Vulc. Co. (R/C WLW) |
| WSOC | se | 100 |  | Gastonia, N. C. | WSOC, Inc. |
| WTAX | ae | 100 | 2 | Springfield, III. | WTAX, Inc. |
| XEX | , | 500 |  | Mexico City, Mexico | Excelsior, Cia Editorial S. A. |

## 1220 kilocycles 245.8 meters

| CMHK | $z$ | 15 | 1225 |
| :--- | :--- | ---: | :--- |
| KFKU | ae | 500 | a |
| KTW | $z$ | 1000 | $2 S$ |
| KWSC | ae | 1000 | $2(2)$ |
| WCAD | ak | 500 | D |
| WCAB | ae | 1000 | R |
| WDAB | ak | 1000 | C |
| WREN | ak | 1000 | aB |

Cruces, Cuba
Lawrence, Kans.
Seattle, Wash.
Pullman, Wash.
Canton, N. Y.
Pittsburgh, Pa.
Tampa, Fla.
Lawrence, Kans.

|  |
| :--- |
| V. Villaneuva |
| University of Kansas |
| First Presbyterian Church |
| State College of Washington |
| St. Lawrence University |
| WCAE, Inc, and Sun-Telegraph |
| Tampa Daily Times (Tampa Terrace) |
| Jenny Wren Co. |

## 1230 kilocycles 243.8 meters

| CMBY | $z$ | 250 | $\ldots \ldots$. |
| :--- | :--- | ---: | :--- |
| CMCA | $z$ | 150 | $\ldots \ldots$. |
| KFGD | aj | 250 | $\ldots$ |
| KGGM | ak | 250 | $(.5)$ |
| KYA | ae | 1000 | N |
| WFBM | aeh | 1000 | 1C |
| WNAC | ae | 1000 | CH |
| WSBT | ak | 500 | 1C |

Havana, Cuba
Havana, Cuba
Anchorage, Alaska
Albuquerque, N. M.
San Francisco, Calif.
Indianapolis, Ind.
Boston, Mass.
South Bend, Ind.

George C. Chandler
R. L. McAdam

KDLR, Inc.
KFJI Broadcasters, Inc.
Howard A. Shuman
Southwestern Hotel Co.
Oscar C. Hirsch
J. C. \& E. W. Lee

Greater Kampeska Radio Corp.
Dodge City Broadcasting Co.
Harold H. Hanseth
Pasadena Presbyterian Church
Hello World Broadcasting Corp.
WALR Broadcasting Corp.
John H. Stenger, Jr. (Morris Bidg
Grace Covenant Pres. Church
Clinton R. White
Harrisburg Broadcasting Co.
Westchester Broadcasting Corp.
Harry H. Carman
Great Southern Land Co.
Peter Goelet (Orange County)
Rock Island Broadcasting Co.
Anderson Broadcasting Corp.
Troy Broadcasting Co.
Monmouth Broadcasting Co., Inc.
Bucknell University
Ingrams Broadcasting Co.
Tidmore
WJW, Inc.
Havens 8 Martin, Inc.
A. B. Newton

Cherry \& Webb Broadcasting Co.
Cherry \& Webb Broadcasting Co.
Stevens Luke
Columbus Bdctg. Corp. (Seneca Hotel)
638 Tire \& Vulc. Co. (R/C WLW)
WSOC, Inc.
Excelsior, Cia Editorial S. A.

## INDEX BY FREQUENCIES AND DIAL NUMBERS

| KTAT | ak | 1000 | 1 | Fort Worth, Texas | KTAT Broadcast Co. Inc. |
| :--- | ---: | ---: | :--- | :--- | :--- |
| KTFI | ak | 500 | $\ldots \ldots$ | Twin Falls, Idaho | Radio Broadcasting Corp, of Idaho |
| WACO | ak | 1000 | iC | Waco, Texas, | Central Texas Broadcasting Co. |
| WKAQ | ae | 1000 | $\ldots \ldots$ | San Juan, P, R. | Radio Corp. of Porto Rico |
| WXYZ | ak | 1000 | $\ldots \ldots$. | Detroit, Mich. | Kunsky-Trendle Broadcasting Corp. |
| XEFW | Z | 70 | $\ldots \ldots$ | Tampico, Mex. | Jose Expedito Martinez |


| 1250 |  | ycl |  | 9 meters |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| KFMX | aj | 1000 | 2 | Northfield, Minn. | Carleton College |
| KFOX | ae | 1000 | CT | Long Beach, Calif. | Nichols \& Warinner, Inc |
| WAAM | se | 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 |  | Richard E. O'Dea |
| $\begin{aligned} & \text { WRHM } \\ & \text { XEFA } \end{aligned}$ | ${ }_{z}^{\text {ae }}$ | 1000 500 | 2 | Minneapolis, Minn. Mexico City, Mexico | Minnesota Broadcasting Corp. Eduardo Limon Segui |




## 1280 kilocycles 234.2 meters

| KFBB | ae | 1000 | (2.5) | Great Falls, Mont. |
| :--- | :--- | ---: | :--- | :--- |
| WCAM | ae | 500 | (c | Camden, N. J. |
| We. J. |  |  |  |  |
| WCAP | ae | 500 | 1C | Asbury Park, N. |
| WDOD | ae | 1000 | C(2.5) | Chattanooga, Tenn. |
| WIBA | ae | 500 | N(1) | Madison, Wis. |
| WOAX | aeh | 500 | 1 | Trenton, N. J. |
| WRR | aeh | 500 | C | Dallas, Texas |


| Buttrey Broadcast, Inc. | 1300 |
| :--- | :--- |
| City of Camden (City Hall Tower) | MTR8. |
| Radio Industries Broadcast Co. | 230.6 |
| WDOD Bdctg. Corp. (Hotel Patten) | 2 |
| Badger Broadcasting Co., Inc. | DIAL |
| Trenton Broadcasting Co. |  |
| City of Dallas (Hilton Hotel) |  |





| 1320 |  | yc |  | .1 meters |
| :---: | :---: | :---: | :---: | :---: |
| CMBF | , | 150 | 1325 | Havana, C |
| CMCY | ${ }_{\text {ak }}^{\text {ak }}$ | 1000 250 | ${ }_{(0)}^{1325}$ | Havana, ${ }^{\text {Prebaba }}$ Pueblo, Colo. |
| KGMB | ${ }^{\text {ak }}$ | 250 | C |  |
| WADC | ${ }_{\text {ae }}$ | 1000 | c |  |
| WSMB | ae | 500 | N | New Orieans, |

Ramon Bardales
M. D. Autran
C. P. Ritchie \& Geo. J. Ikleman

Honolulu Broadcasting Co.
KID Broadcasting Co., Inc.
Allan T. Simmons
WSMB, Inc.


## 1340 kilocycles 223.7 meters

| KFPY | ae | 1000 | CT | Spokane, Wash. |
| :--- | :--- | ---: | :--- | :--- |
| KGDY | ak | 250 | $\ldots \ldots$ | Huron, S. D. <br> WCOA |
| agj | 500 | $\ldots(. \dot{)}$ | Pensacola, Fla. <br> WLEC <br> $z$ | 250 |
| WSPD | ae | 1000 | C |  |
| Portland, Me. |  |  |  |  |

[^11]
## INDEX BY FREQUENCIES AND DIAL NUMBERS

1350 kilocycles 222.1 meters

| KIDO | ak | 1000 | $\ldots \ldots$ | 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 Cord.
Italian Educ. Bdetg. Co., Inc.
Emory \& Henry College
New York Met. Broadcasting Corp.


1370 kilocycles 218.8 meters

| CMGE |  | 30 | 1375 | Cardenas, Cuba |
| :---: | :---: | :---: | :---: | :---: |
| KCRC | ak | 100 | 2(.25) | Enid, Okla. |
| KFBL | aj | 50 | 2(.25) | Everett, Wa |
| KFJM | zk | 100 |  | Grand Forks, N. Dak. |
| KFIZ | 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 |  | Oklahoma City, Okla |
| KGFL | zk | 100 | 4 | Santa Fe, N. Mex. |
| KGKL | ak | 100 |  | San Angelo, Texas |
| KICA | $z$ | 100 |  | 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 |  | Danville, Va. |
| WCBM | ae | 100 | Z(.25) | Baltimore, Md. |
| WDAS | aeh | 100 | (.25) | Philadelphia, Pa |
| WGLC | $z$ | 50 | (.1) | Hudson Falls, N. Y. |
| WGL | aeh | 100 | C | Fort Wayne, Ind. |
| WHBD | bk | 100 |  | Mount Orab, Ohio |
| WHBQ | ak | 100 |  | Memphis, Tenn. |
| WHDF | ak | 100 | (.25) | Calumet, Mich. |
| WIBM | aeh | 100 |  | Jackson, Mich. |
| WJBK | ae | 100 | $1 Q$ | Detroit, Mich. |
| WJEQ | $z$ | 100 | 6P | Williamsport, Pa, |
| WJTL | ae | 100 |  | Atlanta, Ga. |
| WLEY | aeh | 100 | (.25) | Lexington, Mass. |
| WLVA | ck | 100 | 7 | Lynchburg, Va. |
| WMBR WPFB | ak | 100 |  | Tampa, Fla. |
| WPFB | ak | 100 |  | Hattiesburg, Miss. |
| WQDM | ae | 100 |  | 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 HoteJ)
Leese Bros.
University of North Dakota
Fort Worth Broadcasters, Inc.
George Roy Clough
Tucson Motor Service Co.
Mitchell Broadcasting Corp.
Oklahoma Broadcasting Co., Inc.
KGFL, Inc.
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 Duncan 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) KCYS.
Upper Michigan Broadcasting Co.
WIBM, Inc. (Otsega 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


| 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 |

Julio Powers
Arkansas Broadcasting Co.
Nielson Redio \& Sporting Goods Co.
Southwestern Hotel Co. (Ft. Smith)
Radio Air Service Corp. (Higbee Store)

1400 kilocycles 214.2 meters

| CMCH | ak | 50 | 1405 |
| :--- | :--- | ---: | :--- |
| CMCM | $z$ | 15 | 1405 |
| KLO | ae | 500 | $\because$ |
| KOCW | $z$ | 250 | $(.5)$ |
| WBAA | ak | 500 | 1 |
| WBBC | ae | 500 | 2 |
| WCGU | ak | 500 | 2 |
| WFOX | ak | 500 | 2 |
| WKBF | ak | 500 | 1 W |
| WLTH | ac | 500 | 2 |

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

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 KGRS WAAB WBCM WDAG WHBL WHIS WODX WRBX WSFA

| ak | 500 | 4 |
| :--- | ---: | :--- |
| ae | 1000 | 1 |
| ae | 500 | CH |
| ae | 500 | C |
| ae | 1000 | 1 |
| ae | 500 | 4 |
| ak | 250 | 2 |
| ea | 500 | 3 CU |
| ae | 250 | 2 |
| ak | 500 | 3 C |

Rockford, III.
Amarillo, Texas Boston, Mass. Bay City, Mich. Amarillo, Texas Sheboygan, Wis. Bluefield, W, Va.
Mobile, Ala.
Roanoke, Va.
Montgomery, Ala.
$|\mid$
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 |
| :---: | :---: | :---: |
| KBPS | aj | 100 |
| KCMC | ak | 100 |
| KFIZ | ak | 100 |
| KGFF | ak | 100 |
| KGGC | ak | 100 |
| KGIW | ak | 100 |
| KGIX | ak | 100 |
| KGKX | $z$ | 100 |
| KICK | $z$ | 100 |
| KIDW | ak | 100 |
| KORE | aeh | 100 |
| KUMA | ak | 100 |
| KWCR | ae | 100 |
| KXL | ae | 100 |
| WAGM | af | 100 |
| WAMC | ae | 100 |
| WAZL | $z$ | 100 |
| WEHS | ak | 100 |
| WELL | $z$ | 50 |
| WENC | ak | 100 |
| WERE | ae | 100 |
| WHDL | aeh | 100 |
| WHFC | ae | 100 |
| WILM | ae | 100 |
| WJBO | $z$ | 100 |
| WJMS | ak | 100 |
| WKBI | ak | 100 |
| WLBF | ae | 100 |
| WMAS | ak | 100 |
| WMBC | ae | 100 |
| WMBH | ak | 100 |
| WPAD | ak | 100 |
| WSPA | aeh | 100 |
| WT |  | - |



Alamo Betg. Co., Inc. (Texas Theatre)
Student Body Benson Polytech. School
Texarkana Gazette \& Daily News
Reporter Printing Co.
KGFF Bdetg. 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 Brdcstg. 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 Brdcstg. Co., Inc.
W JMS, Inc. (St. James Hotel)
WKBI, Inc.
WLBF Bdetg. Co. (Aladdin Hotel)
WMAS, Inc.
Michigan Broadcasting Co.
W. M. Robertson

Paducah Bdctg. Co. (Ritz Hotel)
The Voice of South Carolina
Associated Brdcstg. Corp.

1430 kilocycles
$\begin{array}{lrrr}\text { KBCA } & \text { ah } & 1000 & \text { N } \\ \text { KGNF } & \text { ak } & 500 & \text { D } \\ \text { WBAK } & \text { ak } & 500 & 1(1)\end{array}$
209.7 meters

Los Angeles, Calif. North Platte, Neb. Harrisburg, Pa.

Earle C. Anthony, Inc.
Great Plains Broadcasting Co. Pennsylvania State Police

| WCAH | ae | 500 | 1 C | Columbus, O |
| :---: | :---: | :---: | :---: | :---: |
| WFEA | ae | 500 | CH | Manchester, N. H. |
| WHEC | ae | 500 | C | Rochester, N. Y |
| WHP | ak | 500 | $1 \mathrm{C}(1)$ | Harrisburg, $\mathrm{P}_{\text {m }}$ |
| WNBR | ae | 500 |  | Memphis, Tenn. |
| WOKO |  | 500 |  | Albany, N. Y. |

Commercial Radio Service Co. New Hampshire Broadcasting Co. WHEC, Inc. (Roch. Sav. Bank Bldg.)
WHP, Inc. (Harrisburg Telegraph)
Memphis Bdete. Co. (WGBC)
WOKO, Inc. (Hotel Ten Eyck)

1440 kilocycles 208.2 meters

| CMBL | ak | 20 | 1445 | H |
| :---: | :---: | :---: | :---: | :---: |
| KDFN | ak | 500 |  | Casper, Wy |
| KLS | ae | 250 | D | Oakland, Calif. |
| KXYZ | ak | 250 |  | Houston, Texas |
| WBIG | ae | 500 | C(1) | Greensboro, N. C. |
| WCBA | ah | 250 |  | Allentown, Pa. |
| WMBD | ae | 500 | $3 \mathrm{C}(1)$ | Peoria, III. |
| WSAN | $z$ | 250 |  | Allentown, Pa |
| WTAD | ak | 500 |  | Quincy, |

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.





| KDB | ak | 100 | C |
| :---: | :---: | :---: | :---: |
| KGFI | aj | 100 | (.25) |
| KGFK | ak | 100 |  |
| KGIZ | ak | 100 |  |
| KGKB | bk | 100 |  |
| KGKY | ck | 100 |  |
| KNOW | ak | 100 |  |
| KPJM | ak | 100 |  |
| KPQ | aj | 100 |  |
| KREG | ak | 100 |  |
| KXO | az | 100 |  |
| WFDV | ak | 100 |  |
| WHEF | ak | 100 | (.25) |
| WKBY | $z$ | 100 |  |
| WKBZ | ak | 100 |  |
| WKEEU | , | 100 |  |
| WLOE | ae | 100 | (.25) |
| WMBQ | ae | 100 |  |
| WMIL | ak | 100 | 1 |
| WMPC | ak | 100 |  |
| WNBF | ae | 100 |  |
| WOPI | ae | 100 |  |
| WPEN | ce | 100 | (.25) |
| WRDW | ae | 100 |  |
| WSYB | aeh | 100 |  |
| WWRL | ak | 100 |  |
| WWSW | ae | 100 | X(.25) |
| XEFZ | ae | 100 |  |

Santa Barbara, Calif. Corpus Christi, Texas Moorhead, Minn. Grant City, Mo. Tyler, Texas Scottsbluff, Neb. Austin, Texas Prescott, Arizona Wenatchee, Wash. Santa Ana, Calif. E1jCentro, Calif. Rome, Ga.
Kosciusko, Miss. Connersville, Ind.
P.... Ludington, Mich. .25) Boston, Mass. $\begin{array}{ll}1 & \begin{array}{l}\text { Brooklyn, N. Y, } \\ 1\end{array} \\ \begin{array}{ll}\text { Brooklyn, N. Y. } \\ \text { Lapeer, Mich. }\end{array}\end{array}$ Binghamton, N. Y.
Bristol, Tenn.

Philadelphia, Pa. Augusta, Ga. Rutland, Vt. Woodside, N. Y.
Pittsburgh. Pa.
Coyoacan. Mexico

Santa Barbara Broadcasters, Led.
Eagle Broadcasting Co., Inc.
Red River Broadcasting Co., Inc.
Grant City Park Corp.
East Texas Broadcasting Co.
Hilliard Co., Inc.
KUT Bdetg. Co. (Driskill Hotel)
Scott \& Sturm
Wescoast 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. Ashbacker

Marshall \& Malcolm
Boston Broadcasting Co.
Paul J. Gollhofer
Arthur Faske
First Methodist Protestant Church
Howitt-Wood Radio Co., Inc.
Radiophone Bdetg. Station WOPI
Wm. Penn Broadcasting Co.
Musicove, Inc. (Relays WLW)
Philip Weiss Music Co.
Long Island Broadcasting Corp.
Walker \& Downing Radio Corp.
Manuel Zetina

## INDEX BY LOCATIONS WITH MAP KEY

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


## INDEX BY LOCATIONS WITH MAP KEY

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

| ILLINOIS | Watts |  | Kcys. | KANSAS | Watts |  |  | Kcys. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Carthage J-18 Chicago I-20 | 50 | WCAZ | 1070 | Abilene K-15 bl | 5000 | KFBI |  | 1050 |
|  | 10000 | KFKX | 109 | Coffeyville M-15 tr | 500 | KGGF |  | 1010 |
|  | 10000 | KYW | N 1070 | Dodge City L-13 | 100 | KGNO |  | 1210 |
|  | 500 | WAAF | 920 | Kansas City K-16 | 100 | WLBF |  | 1420 |
|  | 25000 | WBBM | C 770 | Lawrence K-16 | 500 | KFKU |  | 1220 |
|  | 1500 | WCFL | R 970 |  | 1000 | WREN | B | 1220 |
|  | 100 | WCRW | 1210 | Manhattan K-15 | 500 | KSAC |  | 580 |
|  | 100 | WEDC | 1210 | Topelca K-16 | 1000 | WIBW | C | 580 |
|  | 50000 | WENR | N 870 | Wichita L-15 | 1000 | KFH | C | 1300 |
|  | 500 | WGES | 1360 |  |  |  |  |  |
|  | 25000 | WGN | C 720 | KENTUCKY |  |  |  |  |
|  | 1000 | WIBO | 560 | KENTUCKY |  |  |  |  |
|  | 20000 | WJJD | 1130 | Covington K-22 | 5000 | WCKY | N | 1490 |
|  | 50000 | WLS | N 870 | Hopkinsville M-20 | 1000 | WFIW | C | 940 |
|  | 5000 | WMAQ | N 670 | Louisville L-21 | 25000 | WHAS | C | 820 |
|  | 5000 | WMBI | 1080 |  | 100 | WLAP |  | 1200 |
|  | 500 | WPCC | 560 | Paducah M-19 | 100 | WPAD |  | 1420 |
|  | 100 | WSBC | 1210 |  |  |  |  |  |
| Cicero I-20 | 100 | WEHS | 1420 | LOUISIANA |  |  |  |  |
|  | 100 | WHFC | 1420 |  |  |  |  |  |
|  | 100 | WKBI | 1420 | Monroe P-18 | 100 | KMLB |  | 1200 |
| Decatur K-19 | 100 | WJBL | 1200 | New Orleans R-19 | 100 | WABZ |  | 1200 |
| Harrisburg L-19 | 100 | WEBQ | 1210 |  | 1000 | WDSU | C | 1250 |
| Joliet I-19 | 100 | WCLS | 1310 |  | 100 | WJBO |  | 1420 |
|  | 100 | WKBBB | 1310 1200 |  | 100 500 | WJBW WSMB |  | 1200 1320 |
| La Salle J-19 <br> Peoria J-19 | 100 | WMBCD | C $\begin{array}{r}1200 \\ \hline\end{array}$ |  | 500 10000 | WSMB | N | 1320 850 |
| Quincy K-18 | 500 | WTAD | 1440 | Shreveport P-17 | 100 | KRMD |  | 1310 |
| Rockford I-19 | 500 | KFLV | 1410 |  | 1000 | KTBS | N | 1450 |
| Rock Island I-18 | 100 | WHBF | 1210 |  | 100 | KWEA |  | 1210 |
| Springfield K-19 | 100 | WCBS | 1210 |  | 10000 | KWKH |  | 850 |
|  | 100 | WTAX | 1210 |  |  |  |  |  |
| Tuscola K-20 | 100 | WDZ | 1070 | MAINE |  |  |  |  |
| Zion I-20 | 250 5000 | WILL | 890 1080 | Augusta F-28 | 100 | WRDO |  | 1370 |
|  | 5000 | WCBD | 1080 | Bangor F-29 | 100 | WABI |  | 1200 |
|  |  |  |  | Portland F-28 | 1000 | WCSH | R | 620 |
| INDIANA |  |  |  |  | 250 | WLEC |  | 1340 |
|  |  |  |  | Presque Isle D-29 1c | 100 | WAGM |  | 1420 |
| Anderson J-21 <br> Connersville K-21 | 100 | WHBU | 1210 | MARYLAND |  |  |  |  |
| Elkhart I-21 bc | 50 | WTRC | 1310 | Baltimore J-26 | 10000 | WBAL | B | 1060 |
| Evansville L-20 | 500 | WGBF | - 630 | Baltimore J-26 | 250 | WCAO | C | 600 |
| Fort Wayne J-21 | 100 | WGL | C 1370 |  | 100 | WCBM |  | 1370 |
|  | 10000 | WOWO | C 1160 |  | 500 | WFBR | R | 1270 |
| Gary I-20 Hammond I-20 bc | 1000 | WWKS | 1360 1200 | Cumberland J-25 | 100 | WTBO |  | 1420 |
| Indianapolis J-21 | 1000 | WFBM | C 1230 | Hagerstown J-25 r | 100 | WJEJ |  | 1210 |
|  | 500 | WKBF | 1400 | MASSACHU | TS |  |  |  |
| Lafayette J-20 | 500 | WBAA | 1400 | MASSACHU | IS |  |  |  |
| Muncie J-21 | 50 | WLBC | - 1310 | Babson Park G-28 | 500 | WBSO |  | 920 |
| South Bend I-20 | 100 | WFAM | C 1200 | Boston G-28 | 500 | WAAB | C | 1410 |
|  | 500 | WSBT | C 1230 |  | 25000 | WBZ | B | 990 |
| Terre Haute K-20 | 100 | WBOW | 1310 |  | 1000 | WEEI | R | 590 |
|  |  |  |  |  | 1000 | WHDH |  | 830 |
|  |  |  |  |  | 100 | WLOE |  | 1500 |
|  |  |  |  |  | 1000 | WNAC | C | 1230 |
| IOWA |  |  |  | Fall River H-28 | 250 | WSAR |  | 1450 |
| Ames I-17 | 5000 | WOI | 640 | Lexington G-28 | 100 | WLEY |  | 1370 |
| Boone I-17 | 100 | KFGQ | 1310 | New Bedford H-28 | 100 | WNBH |  | 1310 |
| Cedar Rapids I-18 | 100 | KWCR | B 1420 | Springfield $\mathrm{H}-27$ | 1000 | WBZA | B | 990 |
| Council Bluffs J-16 | 1000 | KOIL | B 1260 |  | 100 | WMORS |  | 1420 |
| Davenport I-18 | 5000 | WOC | R 1000 | Worcester G-28 | 100 250 | WTAG | R | 1200 580 |
| Decorah H-18 | 100 | KGCA | 1270 |  | 250 | WTAG | R | 580 |
| Des Moines $\mathrm{I}-17$ | 100 100 | KWLC | B $\begin{array}{r}1270 \\ \hline 1370\end{array}$ | MICHIGAN |  |  |  |  |
|  | 5000 | WHO | R 1000 | Battle Creek I-21 | 50 | WELL |  | 1420 |
| Iowa City I-18 | 500 | WSUI | 880 | Bay City H-22 | 500 | WBCM | C | 1410 |
| Marshalltown I-17 | 100 | KFJB | 1200 | Calumet E-19 | 100 | WHDF |  | 1370 |
| Ottumwa J-17 | 100 | WIAS | 1310 | Detroit H-22 | 100 | WJBK |  | 1370 |
| Red Oak J-16 | 100 | KICK | 1420 |  | 10000 | WJR | B | 750 |
| Shenandoah J-16 | 500 | KFNF | 890 |  | 100 | WMBC |  | 1420 |
|  | 500 | KMA | C 9330 |  | 1000 | WWJ | R | 920 |
| Sioux City I-15 | 1000 | KSCJ | C 1330 |  | 1000 | WXYZ |  | 1240 |
| Waterloo I-17 | 500 | WMT | C 600 | East Lansing H-21 | 1000 | WKAR |  | 1040 |

## INDEX BY LOCATIONS WITH MAP KEY

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

| Flint H-22 <br> Grand Rapids H-21 | Watts |  | Kcys. | NEVADA Las Vegas L-5 | Watts |  | Kcys. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 100 | WFDF | 1310 |  | 100 | KGIX | 1420 |
|  | 500 500 | WASH | 1270 1270 | $\begin{aligned} & \text { Leno } 1-3 \\ & \text { Ren } \end{aligned}$ | 500 | KOH | C 1380 |
| Ironwood F-18 rc Jackson I-21 <br> Kalamazoo I-21 tl Lapeer H-22 Ludington $\mathrm{H}-20$ Marquette F-19 | 100 | WJMS | 1420 | NEW HAMPSHIRE |  |  |  |
|  | 100 | WIBM | 1370 |  |  |  |  |
|  | 1000 | WKZO | 5590 |  |  | WKAV | 1310 |
|  | 100 | ${ }_{\text {WKBZ }}$ WMPC | 1500 1500 | Manchester G-28 | 500 | WFEA $C$ | C 1430 |
|  | 100 | WBEO | 1310 | Portsmouth G-28 tc | 250 | WHEB | 740 |
| Marquette F-19 <br> Royal Oak H-22 | 50 | WEXL | 1310 | NEW JERSEY |  |  |  |
| MINNESOTA |  |  |  | Asbury Park 1-27 | 500 | WCAP | 1280 |
| Fergus Falls F-15 Minneapolis G-17 | 100 | KGDE | 1200 | Atlantic City J-27 | 5000 | WPG | C 1100 |
|  | 50000 | WCCO C | 810 | Camden I-26 | 500 | WCAM | 1280 |
|  | 1000 | WDGY | 1180 | Jersey City 1-27 | 350 200 | WAAT | 940 |
|  | 1000 | WLB | 1250 |  | 1000 | WAAM | 1250 |
|  | 1000 100 | WRHM | 1250 | Newark 1-27 | 250 | WGCP | 1250 |
| Moorhead F-15 <br> Northfield G-17 | 1000 | KFMX | 1500 1250 |  | 250 | WNJ | 1450 |
|  | 1000 | WCAL | 1250 |  | 5000 | WOR | 710 |
| St. Paul G-17 | 25000 | KSTP N | 1460 | Paterson 1-27 Red Bank | 1000 | WODA | 1250 |
|  |  |  |  | Trenton 1-26 | 500 | WOBAX | 1280 |
| MISSISSIPPI |  |  |  | Zarephath I-27 | 250 | WAWZ | 1350 |
| Greenville O-18 <br> Gulfport Q-19 <br> Hattiesburg Q-19 <br> Jackson P-19 <br> Kosciusko O-19 be <br> Laurel P-19 br <br> Meridian P -20 <br> Vicksburg P-18 | 100 | WKFI | 1210 | NEW MEXICO <br> Albuquerque N -7 |  |  |  |
|  | 100 | WGCM | 1210 1370 |  |  |  |  |
|  | 100 | ${ }_{\text {WPFB }} \mathrm{N}$ | 1370 1270 |  | 250 | KGGM |  |
|  | 100 | WHEF | 1500 |  | 20000 | KOB | 1180 |
|  | 100 | WAML | 1310 | Clovis $\mathrm{O}-11 \mathrm{tr}$ | 100 | KICA | 1370 |
|  | 500 | wCOC | 880 | Santa Fe M-10 | 100 | KGFL | 1370 |
|  | 500 | WQBC | 1360 |  |  |  |  |
| MISSOURI <br> Cp. Girardeau L-19 <br> Columbia $\mathrm{K}-17$ <br> Grant City J-16 <br> Jefferson City L-17 <br> Joplin M-16 <br> Kansas City K-16 |  |  |  | NEW YORK |  |  |  |
|  | 100 | KFVS | 1210 | ${ }_{\text {Albany G-27 bl }}$ | 500 100 | WOKO C | C 1430 |
|  | 500 | KFRU | 630 | Binghamton H-26 | 100 | WNBF |  |
|  | 100 | KGIZ | 1500 | Brooklyn I-27 | 500 | WBBC | 1400 |
|  | 500 | wOS | 630 |  | 1000 | WBBR | 1300 |
|  | 100 | WMBH | 1420 |  | 500 | WCGU | 1400 |
|  | 1000 | KMBC C |  |  | 500 | WFOX | 1400 |
|  | 100 | KWKC | 1370 |  | 500 | WLTH | 1400 |
|  | 1000 500 | WHAF R | 810 |  | 100 | WMBQ | 1500 |
| St. Joseph K-16 St. Louis L-18 | 1000 | WOO | 1300 | Buffalo H-24 | 1000 | WBEN $R$ | R 900 |
|  | 2500 | KFEO | 680 |  | 100 | WEBR | 1310 |
|  | $500$ | KFUO |  |  | 1000 | WGR C | C 550 |
|  | 100 50000 | KFWF ${ }^{\text {KMOX }}$ | 1200 1090 |  | 5000 | WKBW C | C 1480 |
|  | 500 | KSD ${ }_{\text {R }}$ | 550 | Canton F-26 | 500 | WCAD | 1370 |
|  | 1000 | KWK B | 1350 | Chester Tw | 50 | WGNY | 1210 |
|  | 1000 | WEW | 760 | Elmira H-25. | 1000 | WESG | 1040 |
|  | 100 | WIL | 1200 | Freeport 1-27 | 100 | WGBB | 1210 |
| Springfield M-17 | 100 | KGBX | 1310 | Hudson Falls G-27 | 50 | WGLC | 1370 |
| MONTANA |  |  |  | Jamestown H-24 | 50000 | WOCL ${ }_{\text {W }}$ | C $\begin{array}{r}1210 \\ 860\end{array}$ |
| Billings F-9 | 1000 | KGHL N |  |  | 250 | WBNX | 1350 |
| Butte F-7 | 500 | KGIR N | 1360 |  | 50000 250 | WBOQ | 860 |
| Great Falls E-8 | 1000 100 | KFBB | 1280 1310 |  | 250 50000 | WCDA $R$ | R 1350 |
| Kalispell D-7 Missoula E-7 | 100 | KGEZ | 1310 1200 |  | 500 | WEVD | 1300 |
| Wolf Point E-11 | 100 | KGCX | 1310 |  | 1000 | WFAB | 1300 |
| NEBRASKA |  |  |  |  | 500 250 | WINS | 1180 |
|  |  |  |  |  | 50000 | WHZ B | - 1010 |
| Kearney J-14 bc Lincoln J-15 | 1000 | KMMJ | $\begin{array}{r}740 \\ \\ \hline 1310\end{array}$ |  | 5000 | WLWL | 1100 |
|  | 100 5000 | KFFW | 1310 |  | 500 250 | WMCA | 570 1350 |
|  | 5000 | ${ }_{\text {KFAB }} \mathbf{C}$ | 770 1210 |  | 250 500 | WMSG | 1350 |
|  | 500 | WCAJ | 590 |  | 1000 | WOV | 1130 |
| Norfolk 1-15North Platte J-13Omaha J-15 | 1000 | WJAG | 1060 |  | 250 | WPAP | 1010 |
|  | 500 | KGNF | 1430 |  | 500 | WPCH | 810 |
|  | 500 | ${ }^{\text {WAAW }}$ R | 660 590 |  | 250 | WOAO | 1010 |
| Scottsbluff I-11 <br> York J-15 | 1000 100 | WOWY ${ }_{\text {K }}$ | 1500 | Rochester G-25 | 250 5000 | WRNY B | -1010 |
|  | 500 | KGBZ | 930 |  | 500 | WHEC C | 1430 |

## INDEX BY LOCATIONS WITH MAP KEY

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

| Saranac Lake F-26 Schenectady G-27 Syracuse G-25 | Watts |  | Kcys. | Portland E-3 | Watts |  | Kcys. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 50 | WMBZ | 1290 |  | 500 | KALE | C | 1300 |
|  | 50000 | WGY | R 790 |  | 5000 | KEX | N | 1180 |
|  | 1000 | WFBL | C 1360 |  | 100 | KBPS |  | 1420 |
|  | 250 | WMAC | 570 |  | 500 | KFJR |  | 1300 620. |
|  | 250 | WSYR | B 570 |  | 1000 | KGW | N | 620. |
| Troy G-27 | 500 | WHAZ | 1300 |  | 1000 | KOIN | C | 940 |
| Tupper Lake F-26 | 100 | WHDL | 1420 |  | 500 | KWJJ |  | 1060 |
| Utica G-26 | 100 100 | WIBX | 1200 1500 |  | 100 | KXL |  | 1420. |

## NORTH CAROLINA

| Asheville M-23 | 1000 | WWNC N | 570 |  |
| :--- | ---: | :--- | :--- | ---: |
| Charlotte M-24 | 25000 | WBT | C | 1080 |
| Gastonia M-24 | 100 | WSOC | 1210 |  |
| Greensboro M-24 | 500 | WBIG C | 1440 |  |
| Raleigh M-25 | 1000 | WPTF | N | 680 |
| Wimington N-26 | 100 | WRAM | 1370 |  |
| Winston-Salem M-24 | 100 | WSJS | C | 1310 |

## NORTH DAKOTA

Bismarck F
Devils Lake
Fargo F-15
Grand For
Mandan F-
Minot E-13
OHIO
Akron I-23
Canton I-23
Cincinnati K-22
Cleveland I-23
Columbus J-22
Dayton J-22
Mount Orab K-22
Toledo I-22
Youngsown I-23
Zanesville J-23
OKLAHOMA

| Chickasha $\mathrm{N}-14$ | 250 | KOCW |  | 1400 |
| :---: | :---: | :---: | :---: | :---: |
| Elk City N-13 | 100 | KASA |  | 1210 |
| Enid M-14 | 100 | KCRC |  | 1370 |
| Norman N-15 | 500 | WNAL |  | 1010 |
| Oklahoma N-15 | 100 | KFXR |  | 1310 |
| Oklahoma N | 100 | KGFG |  | 1370 |
|  | 5000 | KOMA | C | 1480 |
|  | 1000 | WKY | N | 900 |
| Ponca City M-15 | 100 | WBBZ |  | 1200 |
| Shawnee N-15 | 100 | KGFF |  | 1420 |
| Tulsa M-15 | 5000 | KVOO | N | 1140 |
| OREGON |  |  |  |  |
| Corvallis E-2 | 1000 | KOAC |  | 550 |
| Eugene F-2 | 100 | KORE |  | 1420 |
| Klamath Falls G-3 c | 100 | KFJI |  | 1210 |
| Marshfield F-1 | 100 | KOOS |  | 1370 |
| Medford G-2 | 100 | KMED |  | 1310 |

## INDEX BY LOCATIONS WITH MAP KEY

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


## INDEX BY LOCATIONS WITH MAP KEY

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


## INDEX BY LOCATIONS WITH MAP KEY

| HIDALGO | Watts |  | Kcys. 890 | Watts |  |  | Kcys. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pachuca Y-13 rc | 100 | XETU |  | Colon W-24 | 100 | CMGA |  |
| JALISCO |  |  |  | Cruces | 15 | CMHK | 1225 |
| Guadalajara, Ja. X-10 | 100 | XEA | 1000 | Guantanamo Havana W-23 | 50 | CMKAF | 1300 660 |
|  | 500 | XED | 1155 |  | 150 | CMAY | 965 |
| MICHOACAN |  |  |  |  | 150 | CMBC | 1270 |
| Morelia, Mich. Y-12 | 125 | XEI | 1310 |  | 150 | CMBD | 965 |
| NEUVO LEON |  |  |  |  | 225 | CMBG | 1070 |
| NEUNO LEON |  |  |  |  | 150 | CMBJ | 1140 |
| Monterrey, N. L. U-13 | 100 | XEFB | 1315 |  | 15 | CMBK | 1485 |
|  | 100 | XEFJ | 1000 |  | 20 | CMBL | 1445 |
|  | 250 | XEH | 1132 |  | 150 | CMBN | 1185 |
|  | 500 | XET | 690 |  | 40 | CMBR | 1485 |
| PUEBLA |  |  |  |  | 150 | CMBS | 780 |
| Puebla Z-13 | 100 | XETH | 840 |  | 150 | CMBW | 925 1230 |
| QUERETARO |  |  |  |  | 150 | CMBZ | 1010 |
|  |  |  |  |  | 500 | CMC | 840 |
| Queretaro X-12 br | 40 | XEFS | 1000 |  | 150 | CMCA | 1230 |
| SAN LUIS POTOSI |  |  |  |  | 150 | CMCB | 1070 |
| San Luis Potosi W-12 bc 100 |  | XEAC | 1295 |  | 250 | CMCF | 890 |
| TAMAULIPAS |  |  |  |  | 50 | CMCH | 1405 |
| Matamoros U-14 tr | 500000 | XEM | 660 |  | 250 | CMCJ | 1185 |
|  | 150000 | XETM | 845 |  | 250 | CMCN | 925 |
| N. Laredo S-13 | 7.5 | XEAB | 1450 |  | 1000 | CMCQ | 780 |
|  | 100 | XEFE | 1000 |  | 150 | CMCR | 1365 |
|  | 150000 | XENT | 1115 |  | 150 | CMCU | 630 |
| Reynosa, Tams. T-14 | 10000 | XEAW, | 965 |  | 150 | CMCW | 965 |
| Tampico, Tams. W-14 | 70 | XEFW | 1240 |  | 150 | CMCX | 1010 |
|  | 250 | XES | 1055 |  | 1000 | CMCY | 1325 |
| VERA CRUZ |  |  |  |  | 40 150 | CMDB | 1395 |
| Jalapa Y-14 | 100 | XETC | 1000 |  | 150 | CMDD | 588 925 |
|  | 500 500 | XFB | 840 630 |  | 3150 | CMK | 925 730 |
| Vera Cruz, Ver. Z-14 | 500 100 | XETF | 630 1010 |  | 250 | CMO | 630 |
| YUCATAN | 100 | XEU | 1010 |  | 1400 | CMW | 590 |
| Merida, Yuc. $\begin{array}{r}\text { X-19 } \\ \text { WES }\end{array}$ | 10 | XEFC | 1020 | Matanzas W-24 | 300 30 | CMGB | 1205 |
|  | 105 | XEY | 546.8 |  | 30 | CMGC | 820 |
|  |  |  |  |  | 100 | CMGF | 987 |
|  | INDI | ES |  |  | 15 | CMGH | 1040 |
| CUBA |  |  |  | Moron Pinar del Rio W-22 | 7.5 | CMJP | 1360 |
| Caibarien W-25 |  |  |  | Pinar del Rio W-22 | 20 | CMAB | 1249 1030 |
| Caibarien ${ }^{\text {Camaguey }} \mathbf{W}-25$ | 150 | CMJC | $\begin{array}{r}950 \\ 1382 \\ \hline 175\end{array}$ | Santiago X-28 | 150 | CMKC | 1034 |
|  | 50 | CMJE | 1175 | Tuinucu W-25 rc | 250 | CMHC | 790 |
|  | 200 | CMIF | 930 | DOMINICAN R | PPB | LIC |  |
|  | 50 300 | CMJG | 1050 | Santo Domingo X-31 | 1000 | HIX | 579 |
|  | 50 | CMJL | 790 960 |  |  |  | 579 |
|  | 50 | CMJN | 1240 | HAITI |  |  |  |
| Cardenas W-24 <br> Ciego de Avila W-26 | 30 | CMGE | 1375 | Port au Prince X-30 | 1000 | HHK | 920 |
|  | 45 | CMJI | 1335 |  | ME | A |  |
|  | 50 | CMJO | 1110 | SOUIH | IE | A |  |
| Cienfuegos W-25 | 40 | CMHJ | 1125 | Bogota, Colombia GG- | 0 c 200 | 0 HJN | 685 |
|  | 20 | CMHL | 1290 | Caracas Venz. 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, te top center, tr top right, bl bottom left, be bottom center, br bottom right, 1 left, o center, r right.

## TIME CONVERSION TABLE

| Atlantic | $10: 00$ | $2: 00$ | $3: 00$ | $4: 00$ | $5: 00$ | $6: 00$ | $7: 00$ | $8: 00$ | $9: 00$ | $10: 00$ | $11: 00$ | $12: 00$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 | $9: 00$ | $10: 00$ | $11: 00$ | $12: 00$ | $1: 00$ | $2: 00$ | $3: 00$ | $4: 00$ | $5: 00$ | $6: 00$ | $7: 00$ | $8: 00$ |

INDEX BY CALL LETTERS

| CFAC | 690 | Calgary, Alta., MST. | CMCA | 1230 | Havans, Cubs. | KFDY | 550 | Br |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CFBO | 890 | St. John, N. B. | CMCB | 1070 | Havana, Cuba, EST. | KFEL | 920 | Denv |
| CFCA | 1120 | Toronto, Ont., EST | CMCD | 1140 | Havans, Cubs, EST. | KFEQ | 580 | J |
| CFCF | 1030 | Montreal, Que., EST | CMCF | 890 | Havana, Cubs, EST | KFGQ | 1310 | Boon |
| CFCH | 930 | North Bay, Ont., EST | CMCH | 1405 | Havans, Caba, EST. | KFH | 1300 | Wichi |
| CFCN | 985 | Calgary, Alta., MST. | CMCJ | 1185 | Havana, Cubo. | KFI | 840 | Los Angeles, Calif., PST. |
| CFCO | 1010 | Chatham. Ont., EST. | CMCM | 1405 | Havana, Cubn. | KFIO | 1120 | Spokane, Wash |
| CFCT | 630 | Victoria, B, C., PST | CMCN | 925 | Havana, Cuba. | KFIZ | 1420 | Fond du Lac, Wis, CST. |
| CFCY | 580 | Charlottetown, P. E. I. | CMCQ | 780 | Havans, Cuba. | KFJB | 1200 | Marshalltown, Iowa. |
| CFJC | 1120 | Kamloops, B, C., PST. | CMCR | 1365 | Havana, Cuba. | KFJI | 1210 | Klamath Falls, Ore. |
| CFLC | 915 | Prescott, Ont., EST | CMCU | 630 | Havana, Cuba. | KFJM | 1370 | Grand Forks, N. D. |
| CFNB | 1210 | Fredericton, N.B.,AST. | CMCW | 965 | Havans, Cuba, EST. | KFJR | 1300 | Portland, Ore., PST |
| CFQC | 910 | Saskatoon. Sask | cmex | 1010 | Havana, Cuba. | KFJZ | 1370 | Fort Worth, Texas, CST. |
| CFRB | 690 | Toronto,.Ont., EST. | CMCY | 1325 | Havana, Cuba, EST: | KFKA | 880 | Greeley, Colo., MST |
| CFRC | 930 | Kingston, Ont. | CMDB | 1395 | Havana, Cuba. | KFKU | 1220 | Lawrence, Kans., CST. |
| CHCH | 1200 | Montreal, Que. | CMDD | 588 | Havana, Cuba. | KFKX | 1020 | Chicago, III. |
| CHCK | 960 | Charlottetown, P. E. I. | CMDE | 925 | Havana, Cuba | KFLV | 1410 | Rockford, III., CST. |
| CHES | 1120 | Summerside, P. E. I. | CMGA | 834 | Colon, Cuba, | KFLX | 1370 | Galveston, Texas. |
| CHLP | 1200 | Montreal, Que. | CMGB | 1205 | Matanzas, Cuba. | KFMX | 1250 | Northfield, Minn., CST. |
| CHLS | 730 | Vancouver, B. C., PST. | CMGC | 820 | Matanzas, Cuba. | KFNF | 890 | Shenandoah, Iowa, CST. |
| CHMA | 580 | Edmonton, Alta., MST. | CMGE | 1375 | Cardenas, Cuba, EST. | KFOR | 1210 | Lincoln, Nebr., CST |
| CHML | 880 | Hamilton, Ont., EST. | CMGF | 987 | Matanzas, Cuba. | KFOX | 1250 | Long Beach, Calif., PST. |
| CHNC | 840 | Toronto, Ont. | CMGH | 1040 | Matanzas, Cuba | KFPL | 1310 | Dublin. Texas, CS |
| CHNS | 815 | Halifax, N. B., AST. | CMHC | 790 | Tuinucu, Cuba. | KFPM | 1310 | Greenville, Texas, CST. |
| CHRC | 545 | Quebec, Que., EST. | CMHD | 950 | Caibarien, Cubn. | KFPW | 1210 | Fort Smith, Ark., CST. |
| CHWC | 960 | Regins, Sask., MST | CMHI | 1030 | Santa Clars, Cuba, EST. | KFPY | 1340 | Spokane, Wash. PST. |
| CHWK | 665 | Chilliwack, B. C., PST. | CMHJ | 1125 | Cienfuegos, Cuba, EST. | KFQD | 1230 | Anchorage, Alas |
| CHYC | 730 | Montreal, Que. | CMHK | 1225 | Cruces, Cuba. | KFRC | 810 | San Francisco, Ca |
| CJCA | 745 | Edmonton, Alta, MST. | CMHL | 1290 | Cienfuegos, Cube. | KFRU | 630 | Columbis, Mo, CST. |
| CJCB | 880 | Sydney, N. S., AST. | CMJC | 1382 | Camaguey, Cuba. | KFSD | 00 | San Diego, Calif., PST. |
| CJCJ | 690 | Calgary, Alta., MST. | CMJE | 1175 | Camaguey, Cuba. | KFSG | 1120 | Los Angeles, Calif., PST. |
| CJGC | 595 | London, Ont., EST. | CMJF | 930 | Camaguey, Cuba. | KFUL | 1290 | Galveston, Texas, CST. |
| cJax | 630 | Yorkton, Sask., CST | CMJa | 1050 | Camaguey, Cuba. | KFUO | 550 | St. Louis, Mo., CS |
| CJOC | 1120 | Lethbridge, Alta., MST. | CMJH | 1150 | Ciego de Avila, Cuba. | KFVD | 1000 | Los Angeles, Calif., PST |
| CJOR | 1210 | Vancouver, B. C., PST. | CMJI | 1335 | Ciego de Avila, Cuba. | KFVS | 1210 | Cape Girardeau, Mo. |
| CJRM | 665 | Moose Jaw, Sask., MST. | CMJK | 790 | Camaguey, Cuba | KFWB | 950 | Los Angeles, Calif., PS |
| CJRW | 665 | Fleming, Sask., MST. | CMJL | 960 | Camaguey, Cuba. | KFWF | 1200 | St. Louis, Mo,, CST. |
| CKAC | 730 | Montreal, Que., EST, | CMJN | 1240 | Camaguey, Cuba. | KFWI | 930 | San Francisco. Ca |
| CKCD | 730 | Vancouver, B. C | CMJO | 1110 | Ciego de Avila, Cuba. | KFXD | 1200 | Nampa, Idaho, MST. |
| CKCI | 645 | Quebec, Que., EST', | CMJP | 1360 | Moron, Cuba, | KFXF | 920 | Denver, Colo., MST |
| CKCK | 960 | Regina, Sask., MST. | CMK | 730 | Havana, Cuba, EST. | KFXJ | 1200 | Grand Jot., Colo., MST |
| CKCL | 580 | Toronto, Ont., EST. | CMKC | 1034 | Santiago, Cuba. | KFXM | 1210 | San Bernardino, Calif. |
| CKCO | 890 | Ottawa, Ont. | CMKJ | 1300 | Guantanamo, Cuba. | KFXR | 1310 | Oklahoma City, Okla. |
| CKCR | 645 | Waterloo, Ont., EST. | CMQ | 630 | Havama, Cube. | KFYO | 1310 | Lubbock, Texas, CST. |
| CKCV | 880 | Quebee, Que., EST. | CMW | 590 | Havans, Cuba, EST. | KFYR | 550 | Bismarck, N. D., CST. |
| CKFC | 730 | Vancouver, B. C. | CMX | 890 | Havana, Cuba, EST. | KGA | 1470 | Spokane, Wash. PST. |
| CKGW | 840 | Toronto, Ont. EST. | CNRA | 630 | Moneton, N, B, AST. | KGAR | 1370 | Tucson, Ariz, MST. |
| CKIC | 1010 | Wolfville, N, S. AST. | CNRH | 815 | Halifax, N. S, AST. | KGB | 1330 | San Diego, Calif., PST. |
| CKLC | 840 | Red Deer, Alta. MST. | CNRO | 600 | Ottaws, Ont., EST. | KGBU | 900 | Ketchikan, Alaska. |
| CKMC | 1210 | Cobalt, Ont., EST. | CNRV | 1030 | Vancouver, B, C., PST. | KGBX | 1310 | Springfield, Mo., CST. |
| CKMO | 730 | Vancouver, B. C. | CPRY | 840 | Toronto, Ont., EST. | KGBz | 930 | York, Neb., CST. |
| CKNC | 960 | Toronto, Ont., EST, | HHK | 920 | Port-au-Prince, Haiti. | KGCA | 1270 | Decorah, Iown, CST |
| CKOC | 635 | Hamilton, Ont., EST. | HIX | 579 | Santo Domingo, EST. | KGCR | 1210 | Watertown, 8. D., CST. |
| CKOK | 540 | Windsor, Ont., EST, | HJN | 685 | Bogota, Colombia. | KGcu | 1240 | Mandan, N. D., MST |
| CKOV | 1200 | Kelowna, B. C., PST. | KABC | 1420 | San Antonio, Tex., CST. | KGcX | 1310 | Wolf Point, Mont., MST. |
| CKPC | 880 | Preston, Ont., EST | KALE | 1300 | Portland, Ore., PST. | KGDA | 1370 | Mitchell, S, D, CST. |
| CKPR | 890 | Ft. William, Ont., EST | KARK | 890 | Little Rock, Ark. CST. | KGDE | 1200 | Fergus Falls, Minn. |
| CKTB | 635 | St. Catharines, Ont | KASA | 1210 | Elk City, Okla., CST. | KGDM | 1100 | Stockton, Calif., PST. |
| CKU | 580 | Edmonton, Alta., MST, | KBPS | 1420 | Portland, Ore., PST, | Kady | 1340 | Huron, S. D., CST. |
| CKWX | 730 | Vancouver. B. C., PST | KBTM | 1200 | Paragould, Ark., CST. | KGEK | 1200 | Yums, Colo,, MST |
| CKX | 930 | Brandon, Man., CST, | KCMC | 1420 | Texarkana, Ark., CST. | KGER | 1360 | Long Beach, Calif., PST. |
| CKY | 780 | Winnipeg, Man., CST. | KCRC | 1370 | Enid, Okla, CST | KGEW | 1200 | Ft. Morgan, Colo., MST . |
| CMAB | 1249 | Pinar del Rio, Caba. | KCRJ | 1310 | Jerome, Aris., MST, | KGEZ | 1310 | Kalispell, Mont., MST. |
| CMAF | 660 | Havana, Cuba, EST. | KDB | 1500 | Sants Barbara, Calif. | KGFF | 1420 | Shawnee, Okla., CST. |
| CMAY | 965 | Havans, Cubs. | KDFN | 1440 | Casper, Wyo, MST, | KGFF | 1420 | Shawnee, Okla, CST. |
| CMBC | 1270 | Havana, Cuba, EST. | KDKA | 980 | Pittsburgh, Pa, EST. | KGFG | 1370 | Oklahoma City, Okls. |
| CMBD | 965 | Havana, Cuba. | KDLR | 1210 | Devils Lake, N. D., CST . | KGFI | 1500 | Corpus Christi, Texss. |
| CMBF | 1325 | Havans, Cuba. | KDYL | 1290 | Salt Lake City, Utah | KGFJ | 1200 | Los Angeles, Calif. |
| CMBG | 1070 | Havana, Cuba. | KECA | 1430 | Los Angeles, Calif., PST. | KGFK | 1500 | Moorhead, Minn., CST. |
| CMBJ | 1140 | Havans, Cuba. | KELW | 780 | Burbank, Calif., PST. | KGFL | 1370 | Santa Fe, N. M., MST. |
| CMBK | 1485 | Havana, Cuba. | KERN | 1200 | Bakerstield, Calif., PST. | KGFW | 1310 | Kearney, Neb., CST. |
| CMBL | 1445 | Havana, Cuba, EST: | KEX | 1130 | Portland, Ore., PST. | KGFX | 630 | Pierre, S. D. |
| CMBN | 1185 | Havana, Cuba, EST. | KFAB | 770 | Lincoln, Neb., CST. | KGGC | 1420 | San Francisco, Calif. |
| CMBR | 1485 | Havana, Cuba. | KFAG | 1300 | Los Angeles, Calif., PST. | KGGF | 1010 | Coffeyville, Kans., CST. |
| CMBS | 780 | Havana, Cuba. | KFBB | 1280 | Great Falls, Mont., MST . | KGGM | 1230 | Albuquerque, N. M. |
| CMBW | 925 | Havana, Cuba. | KFBI | 1050 | Abilene, Kans., CST, | KGHF | 1320 | Pueblo, Colo., MST. |
| CMBY | 1230 | Havana, Cuba. | KFBK | 1310 | Sacramento, Calif., PST. | KGHI | 1200 | Little Rock, Ark., CST, |
| CMBZ | 1010 | Havana, Cuba, EST, | KFBL | 1370 | Everett, Wash., PST. | KGHL | 950 | Billings, Mont., MST. |
| CMC | 840 | Havana, Cuba. | KFDM | 560 | Beaumont, Tex, CST. | KGIR | 1360 | Butte, Mont., MST. |

INDEX BY CALL LETTERS

| KGIW | 1420 | Trinidad, Colo., MST | KROW | 930 | Oakland, Calif., PST. | WBAK | 1430 | Harrisburg, Pa., |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| KGIX | 1420 | Las Vegas, Nev., PST. | KRSC | 1120 | Seattle, Wash, PST | WBAL | 1060 | Baltimore, Md., EST. |
| KGIZ | 1500 | Grant City, Mo., CST | KSAC | 580 | Manhattan, Kans., CST. | WBAP | 800 | Ft. Worth, Texas, CST, |
| KGKB | 1500 | Tyler, Texas, CST. | KSCJ | 1330 | Sioux City, Iowa, CST | WBAX | 1210 | Wilkes Barre, Pa., EST . |
| KGKL | 1370 | San Angelo. Texas, CSTT. | KSD | 550 | St. Louis, Mo., CST | WBBC | 1400 | Brooklyn, N. Y., EST. |
| KGKO | 570 | Wichita Falls, Texas. | KSEI | 890 | Pocatello, Idaho, MST. | WBBL | 1210 | Richmond, Va., EST. |
| KGKX | 1420 | Lewiston, Idaho. | KSL | 1130 | Salt Lake City, Utah. | WBBM | 770 | Chicago III |
| KGKY | 1500 | Scottsbluff, Neb, MST. | KSO | 1380 | Des Moines, Iowa. | WBBR | 1300 |  |
| KGN | 1320 | Honolulu, Hawaii. | KSOO | 1110 | Sioux Falls, S. D., CST | WBBZ | 1200 | Ponca City, Okla., CST |
| KGN | 1430 | North Platte, Neb. | KSTP | 1460 | St. Paul, Minn., CST. | WBCM | 1410 | Bay Oity, Mich., EST. |
| KGN | 1210 | Dodge City, Kans. | KTAB | 560 | San Francisco, Calif. | WBEN | 900 | Buffalo, N. Y., EST'. |
| KGO | 790 | San Francisco, Calif. | KTAR | 620 | Phoenix, Ariz., MST. | WBEO | 1310 | Marquette, Mich. CST . |
| KGRS | 1410 | Amarillo, Texas,CST | KTAT | 1240 | Ft. Worth, Texas. | WBHS | 1200 | Huntsville, Ala., CST |
| KGU | 750 | Honolulu, Hawaii. | KTBS | 1450 | Shreveport, La., CST | WBIG | 1440 | Greensboro, N. C., EST. |
| Kavo | 1200 | Missoula, Mont., MST. | KTFI | 1240 | Twin Falls, Idaho, MST'. | WBNX | 1350 | New York City, EST |
| Kaw | 620 | Portland, Ore., PST, | KTHS | 1040 | Hot Springs, Ark., CST, | WBOQ | 860 | New York City. |
| KGY | 1210 | Olympia, Wash., PST. | KTM | 780 | Los Angeles, Calif., PST. | WBOW | 1310 | Terre Haute, Ind., CST |
| KHJ | 900 | Los Angeles, Calif., PST. | KTRH | 1120 | Houston, Texas, CST. | WBRC | 930 | Birmingham, Ala., CST. |
| KHO | 590 | Spokane, Wash., PST'. | KTSA | 1290 | San Antonio, Tex., CST | WBRE | 1310 | Wilkes Barre, Pa. |
| KICA | 1370 | Clovis, N. M. | KTSM | 1310 | El Paso, Texas. | WBSO | 920 | Babson Park, Mass. |
| KICK | 1420 | Red Oak, Iowa | KTW | 1220 | Seattle, Wash. | WBT | 1080 | Charlotte, N. C., EST. |
| KID | 1320 | Idaho Falls, Idaho, MST. | KUJ | 1370 | Walla Walla, Wash. | WBTM | 1370 | Danville, Va., EST. |
| KIDO | 1350 | Boise, Idaho, MST. | KUMA | 1420 | Yuma, Ariz., MST. | WBZ | 990 | Boston, Mass., |
| KIDW | 1420 | Lamar, Colo., MST, | KUOA | 1390 | Fayetteville, Ark., CST | WBZA | 990 | Springfield, Mass., EST. |
| KIEM | 1210 | Eureka, Calif., PST, | KUSD | 890 | Vermillion, S. D., CST. | WCAC | 600 | Storrs, Conn., EST. |
| KIEV | 859 | Glendale, Calif., PST. | KVI | 570 | Tacoma, Wash., PST. | WCAD | 1220 | Canton, N. Y., EST, |
| KIFH | 1310 | Juneau, Alaska | KVL | 1370 | Seattle, Wash. | WCAE | 1220 | Pittsburgh, Pa., EST. |
| KIT | 1310 | Yakima, Wash., PST. | KVOA | 1260 | Tucson, Ariz. | WCAH | 1430 | Columbus, Ohio, EST'. |
| KJBS | 1070 | San Francisco, Calif. | KVOO | 1140 | Tulsa, Okla., CST | WCAJ | 590 | Lincoln, Neb. |
| KJR | 970 | Seattle, Wash., PST. | KVOR | 1270 | Colorado Springs, Colo. | WCAL | 1250 | Northfield, Minn., CST. |
| KLCN | 1290 | Blytheville, Ark. | KVOS | 1200 | Bellingham, Wash. | WCAM | 1280 | Camden, N. J., EST, |
| KLO | 1400 | Ogden, Utah. | KWCR | 1420 | Cedar Rapids, Ia., CST. | WCAO | 600 | Baltimore, Md., EST |
| KLPM | 1240 | Minot, N. D., CST | KWEA | 1210 | Shreveport, La. | WCAP | 1280 | Asbury Park, N. J. EST |
| KLRA | 1390 | Little Rook, Ark., CST. | KWG | 1200 | Stockton, Calif., PST. | WCAT | 1200 | Rapid City, S. D., CST. |
| KLS | 1440 | Oakland, Calif., PST. | KWJJ | 1060 | Portland, Ore. | WCAU | 1170 | Philadelphia, Pa., EST |
| KLX | 880 | Oakland, Calif., PST. | KWK | 1350 | St. Louis, Mo., CST | WCAX | 1200 | Burlington, Vt., EST |
| KLZ | 560 | Denver, Colo., MST. | KWKC | 1370 | Kansas City, Mo. | WCAZ | 1070 | Carthage, IIl., CST, |
| KMA | 930 | Shenandoah, Iowa, CST. | KWKH | 850 | Shreveport, La.,CST. | WCBA | 1440 | Allentown, Pa, EST |
| KMAC | 1370 | San Antonio, Tex., CST. | KWLC | 1270 | Decorah, Iowa, CST. | WCBD | 1080 | Zion, III., CST |
| KMBC | 950 | Kansas City, Mo., CST. | KWSC | 1220 | Pullman, Wash., PST. | WCBM | 1370 | Baltimore, Md., EST, |
| KMED | 1310 | Medford, Ore., PST. | KWWG | 1260 | Brownsville, Texas. | WCBS | 1210 | Springfield, IIl., CST. |
| KMJ | 580 | Fresno, Calif., PST. | KXA | 760 | Seattle, Wash., PST. | WCCO | 810 | Minneapolis, Minn. |
| KMLB | 1200 | Monroe, La, CST. | KXL | 1420 | Portland, Ore., PST. | WCDA | 1350 | New York City, EST. |
| KMMJ | 740 | Clay Center, Neb., CST. | K×0 | 1500 | El Centro, Calif. | WCFL | 970 | Chicago, IIl., CST |
| KMO | 1330 | Tacoma, Wash., PST. | KXRO | 1310 | Aberdeen, Wash., PST. | WCGU | 1400 | Brooklyn, N. Y., EST. |
| KMOX | 1090 | St. Louis, Mo., CSTT. | KXYZ | 1440 | Houston, Texas, CST. | WCKY | 1490 | Covington, Ky., CST |
| KMPC | 710 | Beverly Hills, Calif. | KYA | 1230 | San Francisco, Calif. | WCLO | 1200 | Janesville, Wis., CST. |
| KMTR | 570 | Hollywood, Calif., PSTT. | KYW | 1020 | Chicago, Ill., CST. | WCLS | 1310 | Joliet, III., CST |
| KNOW | 1500 | Austin, Texas, CST. | KZRM | 618.5 | Manila, P. I. | WCOA | 1340 | Pensacola, Fla., CST |
| KNX | 1050 | Hollywood, Calif., PST. | NAA | 690 | Arlington, Va. | WCOC | 880 | Meridian, Miss., CST. |
| KOA | 830 | Denver, Colo., MST, | RUS | 664 | Salvador. | WCOD | 1200 | Harrisburg, Pa., EST. |
| KOAC | 550 | Corvallis, Ore.. PST. | TICR | 911 | San Jose, C | WCRW | 1210 | Chicago, III. |
| KOB | 1180 | Albuquerque, N. M. | VAS | 685 | Glace Bay, N. S., AST | WCSC | 1360 | Charleston, S. C., ESTT. |
| KOCW | 1400 | Chickasha, Okla. | VOAS | 810 | St, Johns | WCSH | 940 | Portland, Maine. EST. |
| KOH | 1380 | Reno, Nev., PST. | VOGT | 893 | Wabana | WDAE | 1220 | Tampa, Fla., ESTT. |
| KOIL | 1260 | Council Bluffs, Ia.. CST | Vogr | 860 | St. Johns, N. F. | WDAF | 610 | Kansas City, Mo., CST. |
| KOIN | 940 | Portland, Ore., PST. | VONA | 950 | St. Johns, N. F. | WDAG | 1410 | Amarillo, Texas, CST. |
| KOL | 1270 | Seattle, Wash., PST | VONF | 1195 | St. Johns, N. F. | WDAH | 1310 | El Paso, Texas. |
| KOMA | 1480 | Oklahoma City, Okla. | VOWR | 750 | St. Johns, N. | WDAS | 1370 | Philadelphia, Pa., EST. |
| KOMO | 920 | Seattle, Wash., PST. | WAAB | 1410 | Boston, Mass., EST | WDAY | 940 | Fargo, N. D., CST |
| KONO | 1370 | San Antonio, Tex., CST | WAAF | 920 | Chicago, Ill., CST. | WDBJ | 930 | Roanoke, Va., EST. |
| Koos | 1370 | Marshfield, Ore., PST. | WAAM | 1250 | Newark, N. J., EST | WDBO | 580 | Orlando, Fla., ESTT. |
| KORE | 1420 | Eugene, Ore, PST. | WAAT | 940 | Jersey City, N. J., EST, | WDEL | 1120 | Wilmington, Del, EST'. |
| KOY | 1390 | Phoenix, Ariz., MST. | WAAW | 660 | Omaha, Neb., CST | WDEV | 550 | Waterbury, Vt., EST. |
| KPCB | 650 | Seattle, Wash., PST. | WABC | 860 | New York City, EST. | WDGY | 1180 | Minneapolis, Minn. |
| KPJM | 1500 | Prescott, Ariz.,MST. | WABI | 1200 | Bangor, Maine, EST. | WDOD | 1280 | Chattanooga, Tenn. |
| KPO | 680 | San Francisco, Calif. | WABZ | 1200 | New Orleans, La., CST | WDRC | 1330 | Hartford, Conn., EST. |
| KPOF | 880 | Denver, Colo., MST. | WACO | 1240 | Waco, Texas, CST. | WDSU | 1250 | New Orleans, La, CST. |
| KPPC | 1210 | Pasedena, Calif., PST. | WADC | 1320 | Akron, Ohio, EST | WDZ | 1070 | Tuscola, Ill., CST'. |
| KPQ | 1500 | Wenatchee, Wash., PST. | WAGM | 1420 | Presque Isle, Me., EST'. | WEAF | 880 | New York City, EST |
| KPRC | 920 | Houston, Texas, CST. | WAIU | 640 | Columbus, Ohio, ESTT. | WEAN | 780 | Providence, R. I., EST . |
| KQV | 1380 | Pittsburgh, Pa., EST. | WALR | 1210 | Zanesville, Ohio, EST | WEAO | 570 | Columbus, Ohio, EST. |
| KQW | 1010 | San Jose, Calif., PST. | WAMC | 1420 | Anniston, Ala., CST. | WEBC | 1290 | Superior, Wis., CST. |
| KRE | 1370 | Berkeley, Calif., PST. | WAML | 1310 | Laurel, Miss. | WEBQ | 1210 | Harrisburg, III.,CST. |
| KREG | 1500 | Santa Ana, Calif., PST. | WAPI | 1140 | Birmingham, Ala., CST | WEBR | 1310 | Buffalo, N. Y., EST. |
| KRGV | 1260 | Harlingen, Texas, CST. | WASH | 1270 | Gd. Rapids, Mich., EST . | WEDC | 1210 | Chicago, III. |
| KRKD | 1120 | Los Angeles, Calif., PST. | WAWZ | 1350 | Zarephath, N. J., EST. | WEEI | 590 | Boston, Mass., EST |
| KRLD | 1040 | Dallas, Texas, CST. | WAZL | 1420 | Hazelton, Pa., EST. | WEEU | 830 | Reading, Pa., EST |
| KRMD | 1310 | Shreveport, Iowa, CST. | WBAA | 1400 | Lafayette, Ind., CST. | WEHC | 1350 | Emory, Va., EST. |

INDEX BY CALL LETTERS

| WEHS | 1420 | Cicero, III., C | WILL | 899 | Urbana, Ill., CS | W | 780 | Memphis, Tenn., CST. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WELL | 1420 | Battle Creek, Mich | WILM | 1420 | Wilmington, Del., EST. | WMCA | 570 | New York City, EST. |
| WENC | 1420 | Americus, Ga., EST. | WINS | 1180 | New York City, EST. | WMIL | 1500 | Brooklyn, N. Y., EST. |
| WENR | 870 | Chicago, ill., CST. | W10D | 1300 | Miami, Fls EST | WMM | 890 | Fairmont, W. Va., EST. |
| WERE | 1420 | Erie, Pa, EST. | WIP | 610 | Philadelphis, Pa., EST. | WMPC | 1500 | Lapeer, Mich., EST. |
| WESG | 1040 | Elmira, N. Y. | WIS | 1010 | Columbis, 8. C., EST. | WMSG | 1350 | New York City, EST. |
| WEVD | 1300 | New York City, E | WISN | 1120 | Milwaukee, Wis, CST. | WMT | 600 | Waterloo, Iowa, CST. |
| WEW | 760 | 8t. Louis, Mo, CS7 | WJAC | 1310 | Johnstown P2, EST. | WNAC | 1230 | Boeton, Mase., EST. |
| WEXL | 1810 | Royal Oak, Mich., EST. | WJAG | 1060 | Norfolk, Neb., CST | WNAD | 1010 | Norman, Okla, SST. |
| WFAA | 800 | Dallas, Texas, CST. | WJAR | 890 | Providence, R. I. EST. | WNAX | 570 | Yankton, 8, D., CST. |
| WFAB | 1300 | New York City, EST. | WJAS | 1290 | Pittsburgh, P. , EST. | WNBF | 1500 | Binghamt |
| WFAM | 1200 | South Bend, Ind., CSI | wJax | 900 | Jacksonville, Fla, EST. | WNBH | 1310 | New Be |
| WFAS | 1219 | White Plains, N | WJAY | 610 | Cleveland, Ohio, EST. | WNBO | 1200 | Waahington, PL, EST. |
| WFBC | 1200 | Greenville, B . | WJBC | 1200 | Iasalle | WNBR | 1430 | Memphis, Tean, CST, |
| WFBE | 1200 | Cincinnati, Ohio, EST: | WJBI | 1210 | Red Bank, N . J | WNBW | 1200 | Carbondale, Pa , EST. |
| WFBG | 1310 | Altoona, Pa . | WJBK | 1370 | Detroit, Mich | WNBX | 1250 | Springfi |
| WFBL | 1360 | Syracuse, N. Y., EST. | WJBL | 1200 | Decatur, III., CST. | WNBZ | 1290 | Saranae I |
| WFBM | 1230 | Indianapolis, Ind., CST. | WJBO | 1420 | New Orleans, La | WNJ | 1450 | Newark, |
| WFBR | 1270 | Baltimore, Md., EST. | WJBU | 1210 | Lewisburg. P3, EST, | WNOX | 560 | Knoxvil |
| WFDF | 1310 | Flint, Mich., EST, | WJBW | 1200 | New Orieans, La, CST | WNYC | 570 | New Yor |
| WFDV | 1500 | Rome, Ga., CST | WJBY | 1210 | Gadeden, Als., CST | WOAI | 1190 | San Antonio |
| WFEA | 1430 | Manchester, N. H. EST. | WJDX | 1270 | Jackson, Mive, CS | WOAX | 1280 | Trenton, |
| WFI | 560 | Philadelphis, Pa., EST. | WJEJ | 1210 | Hagerstown, M | W0BU | 580 | Charleaton, W. Va, EST. |
| WFIW | 940 | Hopkinsville, Ky. CST. | WJEQ | 1370 | Williamsport, Pa | WOC | 100 | Davenport, Iowa, CST. |
| WFLA | 620 | Clearwater, Fla, EST, | WJJD | 1130 | Chicago, III., CST, | WOCL | 1210 | Jamestown, N. Y.,EST. |
| WFOX | 1400 | Brooklyn, N. Y, EST. | WJKS | 1360 | Gary, Ind., CS | WODA | 1250 | Paterson, |
| WGAL | 1310 | Lanesster, Pa., EST: | WJMS | 1420 | Ironwood, Mich., CS | WODX | 1410 | Mobile, Ala, CST |
| WGAR | 1450 | Cleveland , Ohio, EST. | WJR | 750 | Detroit, Mich., ES | WOI | 640 | Ames, lown, CST |
| WGB8 | 1210 | Freeport, N, Y, EST. | WJSV | 1460 | Washington, D. C., EST. | WOKO | 1430 | Albany, |
| WGBF | 630 | Evansville, Ind., CST. | WJTL | 1370 | Atlanta, Ga., CS | WOL | 1310 | Waehington, D.C., EST. |
| WGBI | 880 | Scranton, Pa., EST: | WJW | 1210 | Akron, Ohio, ES | WOMT | 1210 | Manitowoe, Wis., CST: |
| WGCM | 1210 | Gulfport, Miss. CST. | WJI | 760 | New York City, EST, | W00D | 1270 | Gd. Rapids, Mich., EST. |
| WGCP | 1250 | Newark, N. J., EST. | WKAQ | 1240 | San Juan, P. R, AST. | WOPI | 1500 | Bristol, Tenn. |
| WGES | 1350 | Chicago, III, CST. | WKAR | 1040 | E. Lansing, Mich. ES | W00 | 1300 | Kansas City, Mo., CST. |
| WGH | 1310 | Newport News, Va. | WKAV | 1310 | Laconis, N. H, EST. | WOR | 710 | Newark, N. |
| WGL | 1370 | Fort Wayne, Ind. CST. | WKBB | 1310 | Joliet, III., CST | WORC | 1200 | Worcester, Mass., EST. |
| WGLC | 1370 | Hudson Falls, N. Y.,EST | WKBC | 1310 | Birmingham, Ala. | WORK | 1000 | York, Pa, ES |
| WGN | 720 | Chicago, III, CST, | WKBF | 1400 | Indianapolis, Ind, CST. | WOS | 630 | Jefferson City |
| WGNY | 1210 | Chester, N. Y, EST, | WKBH | 1380 | LaCrose, Wis, CST. | wov | 1130 | New York City, EST |
| WGR | 550 | Buffalo, N, Y., EST. | WKBI | 1420 | Cicero, III., CST | Wow | 590 | Omaha, Neb |
| WGST | 890 | Atlanta, Ga., CST | WKBN | 570 | Youngstown, Ohio, EST. | Wowo | 1160 | Fort Wayne, Ind., CST. |
| WGY | 790 | Schenectady, N. Y, ES | WKBV | 1500 | Connersville, Ind. CST. | WPAD | 1420 | Paducah, Ky., |
| WHA | 940 | Madison, Wis, CST. | WKBW | 1480 | Buffalo, N. Y., ES | WPAP | 1010 | New York Cit |
| WHAD | 1120 | Milwaukee, Wis., CST. | WKEZ | 1500 | Ludington, Mich., CST. | WPAW | 1210 | Providence, R. I., EST. |
| WHAM | 1150 | Rochester, N. Y., EST. | WKEU | 1500 | LaGrange, Ga. | WPPCC | 560 | Chicago, III. |
| WHAS | 820 | Louisville, Ky, CST. | WKFI | 1210 | Greenville, Miss., CST. | WPCH | 810 | New York City, EST, |
| WHAT | 1310 | Philadelphin, Pa, ES | WKJC | 1200 | Iancaster, Pa, EST. | WPEN | 1500 | Philadelphis, Pa., EST. |
| WHAZ | 1300 | Troy, N. Y., EST | WKRC | 550 | Cincinnati, Ohio, EST. | WPFB | 1370 | Hattiesburg, Miss., CST. |
| WHB | 860 | Kansas City, Mo, CST. | WKY | 900 | Oklahoma City, Okla. | WPG | 1100 | Atlantic City, N.J, EST. |
| WHBC | 1200 | Cariton, Otio, EST. | WKZO | 590 | Kalamazoo, Mich, EST. | WPHR | 1200 | Petersburg, Va., EST |
| WHBD | 1370 | Mt. Orabs Ohio, EST. | WLAC | 1470 | Nashville, Tenn, CST | WPOR | 780 | Norfolk, Va. |
| WHBF | 1210 | Rock Island, III, CST. | WLAP | 1200 | Louisville. Ky, CST. | WPRO | 1210 | Providence, R. 1., EST. |
| WHBL | 1410 | Sheboykan, Wis., CST. | WLB | 1250 | Minneapolis, Minn, CST. | WPTF | 580 | Raleigh, N. C., EST |
| WHBQ | 1370 | Memptis, Tenn., CST. | WLBC | 1310 | Muncie, Ind., CST | WQAM | 560 | Miami, Fla, ESST: |
| WHB | 1210 | Anderson, Ind., CST. | WLBF | 1420 | Kansas City, Kans, CST. | WQAN | 830 | Scranton, P3, EST |
| WHB | 1200 | Green Bay, Wis, CST. | WLBL | 300 | Stevens Point, Wis, CST. | WQAD | 1010 | New York City, |
| WHDF | 1370 | Calumet, Mich., CST | WLBW | 1260 | Erie, Pa, EST | WQBC | 1360 | Vickabarg, Miss, CST. |
| WHDH | 830 | Boston, Mase, ES | WLBZ | 620 | Bangor, Maine, EST: | WQDM | 1370 | St. Albans, Vt., EST. |
| WHDL | 1420 | Tupper Lake, N.Y., EST. | WLEC | 1340 | Portland, Me, EST. | WQDX | 1210 | Thomasville, Ga |
| WHEB | 740 | Portsmouth, N. H., EST. | WLEY | 1370 | Lexington, Mass., EST. | WRAK | 1370 | Williatnapori, P2, EST. |
| WHEC | 1430 | Rochester, N. Y, ESST. | WLIT | 560 | Philadelphia, Pa, EST. | WRAM | 1370 | Wilmington, N. C, EST. |
| WHEF | 1500 | Kosciusko, Miss. | WLOE | 1500 | Boiton, Mass, EST: | WRAW | 1310 | Resdiny, $\mathrm{P}_{\text {L }}$, Es |
| WHET | 1210 | Troy, Ala, CST. | WLS | 870 | Chicago, Ill. . CST. | WRAX | 1020 | Philadelphis, Pa., EST. |
| WHFC | 1420 | Cicero, III. CST. | WLTH | 1400 | Brooklyn, N. Y., EST. | WRBL | 1200 | Columbus, Ga. CST. |
| WHIS | 1410 | Bluefield, W. Va., EST. | WLVA | 1370 | Lynchburg, Va, EST. | WRBX | 1410 | Roanoke, Va., EST |
| WHK | 1390 | Cleveland, Ohio, EST. | WLW | 700 | Cincinnati, Ohio, EST. | WRC | 950 | Washington, D. C., EST. |
| WHN | 1010 | New York City, EST. | WLWL | 1100 | New York City, EST. | WRDO | 1370 | Augusta, Maine, EST. |
| WHO | 1000 | Des Moines, Iown. | WMAC | 570 | Syracuse, N. Y. | WRDW | 1500 | Augusta, Ga., EST. |
| WHOM | 1450 | Jersey City, N. J., EST. | WAML | 630 | Wathington, D. C., EST. | WREC | 600 | Memphis, Tenn. |
| WHP | 1430 | Harrisburg, Pa., ESST. | WMAQ | 670 | Chicago, III, CST. | WREN | 1220 | Lawrence, Kans., CST. |
| WIAS | 1310 | Ottumwa, lown, CST. | WMAS | 1420 | Springfield, Mass., EST . | WRHM | 1250 | Minneapolis, Minn, CST |
| WIBA | 1230 | Madison, Wis., CST. | WMAZ | 1180 | Macon, Ga., EST, | WRJN | 1370 | Racine, Wis., CST. |
| WIBG | 930 | Glenside, Pa., EST, | WMBC | 1420 | Detroit, Mich., EST. | WRNY | 1010 | New York City. |
| WIBM | 1370 | Jackson, Mich., EST. | WMBD | 1440 | Peoria, III, CST. | WRO | 1310 | Knoxville, Tenn., CST. |
| WIB0 | 560 | Chicago, III., CST. | WMBG | 1210 | Richmond, Va., EST. | WRR | 1200 | Dallas, Texas, CST. |
| WIBU | 1210 | Poynette, Wis., CST. | WMBH | 1420 | Joplin, Mo., CST. | WRUF | 830 | Gainesville, Fla, EST. |
| WIBW | 530 | Topeka, Kans., CST. | WMBI | 1080 | Chicago, Ill., CST | WRVA | 1110 | Richmond, Va., EST. |
| WIBX | 1200 | Utica, N. Y. | WMBO | 1310 | Auburn, N, Y., EST, | WSAI | 1330 | Cincinnati, Ohio, EST |
| WICC | 600 | Bridgeport, Conn., EST . | WMBQ | 1500 | Brooklyn, N. Y, EST. | WSAJ | 1310 | Grove City, Pa. |
| WIL | 1200 | St. Louis, Mo., CST. | WMBR | 1370 | Tampa, Fla., EST. | WSAN | 1440 | Allentown, Pa, EST |


| WSAR | 1450 | Fall River, Mass., Es | WWJ | 920 | Detroit, M | XEL | 1000 | Siltillo, Mex., CST |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WSAZ | 580 | Huntington, W. Va.,EST. | WWL | 850 | New Orleans, La., CST, | XEM | 660 | Matamoro |
| WSB | 740 | Atlanta, Ga., CST. | WWNC | 570 | Asheville, N. C., CST. | XEN | 711 | Mexico City CST |
| WSBC | 1210 | Chicago, III., CST | WWRL | 1500 | Woodside, N. Y., EST | XENT | 1115 | Neuvo Laredo, Mex. |
| WSBT | 1230 | South Bend, Ind., CST. | WWSW | 1500 | Pittsburgh, Va., EST | XEP | 780 | Mexico City, Mex. |
| WSEN | 1210 | Columbus, Ohio, EST, | WWVA | 1160 | Wheeling, W, Va., ES | XEPN | 585 | Piedras Negras, Mex. |
| SFA | 1410 | Montgomery, Ala., CST, | WXYZ | 1240 | Detroit, Mich., EST | XER | 735 | Villa Acuna, Mex. |
| WSIX | 1210 | Springfield, Tenn., CST. | XEA | 1000 | Guadalajara, Mex.,CS' | XES | 1055 | Tampico, Mex., CST |
| WSJS | 1310 | Winston-Salem, N. C., EST. | $\begin{aligned} & \text { XEAB } \\ & \text { XEAC } \end{aligned}$ | $\begin{aligned} & 1450 \\ & 1295 \end{aligned}$ | N. Laredo, Mex. San Luis Potosi, Mex. | $\begin{aligned} & \text { XET } \\ & \text { XETA } \end{aligned}$ | $\begin{array}{r} 690 \\ 1140 \end{array}$ | Monterrey, Mex., CST. Mexico City, Mex. |
| WSM | 650 | Nashville, Tenn., CST | XEAD | 875 | Mexico City, Mex. | XETB | 1380 | Torreon, Mex. |
| WSMB | 1320 | New Orleans, La., CST. | XEAI | 1090 | Mexico City, Mex | XETC | 1000 | Jalapa, Mex. |
| WSM | 1380 | Dayton, Ohio, EST. | XEAN | 750 | Juarez, Mex, MST. | XETF | 630 | Veracruz, Mex., CST. |
| WSOC | 1210 | Gastonia, N. C., EST | XEAO | 560 | Mexicali, Mex. | XETH | 840 | Puebla, Mex. |
| SP | 1420 | Spartanburg, S. C., EST. | XEAW | 965 | Reynosa, Mex. | XETM | 845 | Matamoros, Mex. |
| WSPD | 1340 | Toledo, Ohio, EST. | XEB | 1030 | Mexico City, Mex., CS | XETR | 610 | Mexico City, Mex |
| wSUI | 880 | Iowa City, Iowa, CST. | XEC | 1000 | Toluca, Mex. | XETU | 890 | Pachuca, Mex. |
| WSUN | 620 | St. Petersburg.Fla, EST | XED | 1155 | Guadalajara, Mex. | XETW | 830 | Mexico City, Mex. |
| WSVS | 1370 | Buffalo, N. Y., ESST. | XEF | 735 | Villa Acuna, Mex. | XEU | 1010 | Veracruz, Mex., CS |
| WSYB | 1500 | Rutland, Vt., EST. | XEFA | 1250 | Mexico City, Mex. | XEW | 910 | Mexico City, Mex., |
| WSYR | 570 | Syracuse, N. Y., EST. | XEFB | 1315 | Monterrey, Mex., CST | XEX | 1210 | Mexico City, Mex. |
| WTAD | 1440 | Quincy, III, CST. | XEFC | 1020 | Merida, Mex. | XEY | 546.8 | Mexida, Mex. |
| WTAG | 580 | Worcester, Mass., EST. | XEFD | 1020 | Tijuana, Mex. | XFB | 840 | Jalapa, Mex. |
| WTA | 1070 | Cleveland, Ohio, EST, | XEFE | 1000 | Laredo, Mex. | XFC | 805 | Aguascalientes, Mex. |
| WTAQ | 1330 | Eau Claire, Wis., CST. | XEFH | 1360 | Mexico City Mex. | XFG | 638.3 | Mexico City, Mex. |
| WTAR | 780 | Norfolk, Va., EST, | XEFI | 1000 | Chihuahua, Mex. | XFI | 818.1 | Mexico City, Mex. |
| WTAW | 1120 | College Station, Texas. | XEFJ | 1000 | Monterrey, Mex. | XFO | 940 | Mexico City, Mex. |
| WTAX | 1210 | Springfield, III., CST. | XEFO | 940 | Mexico City, Mex., CST | XFX | 860 | Mexico City, Mex. |
| WTEO | 1420 | Cumberland, Md., EST. | XEFS | 1000 | Queretaro, Mex., CST | YV1BC | 960 | Caracas, Venz. |
| WTEL | 1310 | Philadelphia, Pa., EST. | XEFV | 1370 | Juarez, Mex. | $10-\mathrm{AB}$ | 1200 | Moose Jaw, Sask., MS |
| WTFI | 1450 | Athens, Ga., EST | XEFW | 1240 | Tampico, Mex. | 10-AK | 1200 | Stratford, Ont., EST. |
| WTIC | 1060 | Hartford, Conn., EST, | XEFL | 1500 | Coyoacan, Mex., CST. | 10-AT | 1158 | Trail, B. C., PST |
| WTdS | 1310 | Jackson, Tenn., CST. | XEG | 1075 | Mexico City, Mex. | 10-B | 1200 | Prince Albert, Sa |
| WTMJ | 620 | Milwaukee, Wis., CST | XEH | 1132 | Monterrey, Mex., CST |  |  | MST. |
| WTCC | 1260 | Savannah, Ga., EST. | XEI | 1310 | Morelia, Mex., CST. | 10-BP | 1199 | Wingham, Ont., EST. |
| WTEC | 1310 | Elkhart, Ind., CST, | XEJ | 1015 | Juarez, Mex., CST. | 10-80 | 1200 | Brantford, Ont., EST. |
| WWAE | 1200 | Hammond, Ind., CST. | XEK | 990 | Mexico City, Mex. | 10-BU | 1200 | Canora, Sask. |

## 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

| Megs. 1.558 | $\begin{aligned} & \text { Meters } \\ & 192.43 \end{aligned}$ | Call KGPD | City, State or Country San Francisco, Calif. |  |  | WCK WMO | Detroit, Mich. <br> Highland Park, Mich. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | WEY | Boston, Mass. |  |  | WPDA | Tughand Park, Mich. |
| 1.570 | 191.08 | WPEL | 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 | Grosse Pt. Village, Mi h. |
|  |  | WMP | Framingham, Mass. | 2.416 | 124.09 | KGPB | Minneapolis, Minn. |
|  |  | WRDS | East Lansing, Mich. |  |  | WPDS | St. Paul, Minn. |
| 1.596 | 187.85 | WCF | New York City | 2.422 | 123.79 | 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. |  |  | WMJ | Buffalo, N. Y. |
|  |  | KGPC | St. Louis, Mo. |  |  | WPDW | Washington, D. C. |
|  |  | KGPJ | Beaumont, Texas | 2.430 | 123.45 | CJW | St. John, N. B. |
|  |  | KGPL | Los Angeles, Calif. |  |  | KGZD | San Diego, Calif. |
|  |  | KGPR | Fort Worth. Texas |  |  | WPDI | Columbus, Ohio |
|  |  | KGZB | Houston, Texas |  |  | WPDM | Dayton, Ohio |
|  |  | KVP | Dallas, Texas |  |  | WPEK | New Orleans, La. |
|  |  | UYR | Montreal. P Q. | 2.442 | 122.77 | KGPP | Portland, Ore. |
|  |  | WKDU | Cincinnati, Ohio |  |  | KGPX | Denver, Colo. |
|  |  | WPDB | Chicago, If1. |  |  | KZGH | Klamath Falls, Ore. |
|  |  | WPDC | Chicago, III. |  |  | WMDZ | Indianapolis, Ind. |
|  |  | WPDD | Chicago, III. |  |  | WPDE | Louisville, Ky. |
|  |  | WPDU | Pittsburgh, Pa. |  |  | WPDF | Flint, Mich. |
|  |  | WPED | Arlington, Mass. |  |  | WPDH | Richmond, Ind. |
|  |  | WPEH | Sommerville, Mass. |  |  | WPDL | Lansing, Mich. |
| 2.004 | 149.61 | VE9RM | Toronto, Ont. |  |  | WPEB | Grand Rapids, Mich. |
| 2.100 | 142.80 | VE90S | Montreal, Que. |  |  | WPES | Saginaw, Mich. |
| 2.414 | 124.20 | KGPA | Seattle, Wash. | 2.450 | 122.40 | KGPH | Oklahoma City, Okla. |
|  |  | KGPS | Bakersfield, Calif. |  |  | KGPO | Tulsa, Okls. |
|  |  | KGZA | Fresno, Calif. |  |  | KGPQ | Honolulu. Hawaii |



| $\begin{aligned} & 4.748 \\ & 4.782 \end{aligned}$ | $\begin{aligned} & 63.13 \\ & 62.70 \end{aligned}$ | *W00 | Ocean Gate, N. J. |  |  | KGUG | Big Springs, Tex. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | CGA | Drummondville, Que. |  |  | KGUH | Waco, Tex. |
|  |  | W9XAM | Elgin, III. |  |  | KGUK | Shreveport, La. |
| 4.797 | 62.50 | W2XV | Long Island City, N. Y. Rugby, England |  |  | KGUL | Abilene, Tex. |
| 4.9755.045 | 60.2759.42 | GBC |  |  |  | KGUM | Frijole, Tex. |
|  |  | *VRT-ZFA | Rugby, England Hamilton, Bermuda |  |  | KGUN | Douglas, Ariz. |
| $\begin{aligned} & 5.045 \\ & 5.143 \\ & 5.169 \end{aligned}$ | 58.30 | PMY | Bandoeng, Java |  |  | KGUP | Phoenix, Ariz. |
|  | $\begin{aligned} & 58.00 \\ & 57.03 \end{aligned}$ | OK1MPI | Prague, Crechoslovakia |  |  | KGUQ | Indio, Calif. |
| $\begin{aligned} & 5.169 \\ & 5.257 \end{aligned}$ |  | ${ }^{* W Q N}$ | Rocky Point, N. Y. |  |  | KGUR | Burbank, Calif. |
| 5.373 | 55.80 | $\begin{aligned} & \text { KNWA } \\ & \text { KNWB } \end{aligned}$ | St. Paul, Minn. Fargo, N. D. |  |  | $\begin{aligned} & \text { KGUS } \\ & \text { KGUT } \end{aligned}$ | Blythe, Calif. <br> Robertaon. Mo |
|  |  | WAEH | Fargo, N. D. Wis. |  |  | KGUUU | Robertion, Ma |
|  |  | WSDL | Duluth, Minn. |  |  | WAEJ | Springfield, III. |
|  |  | WSDR | Madison, Wis. |  |  | WODP | Atlanta, Ga. |
|  |  | WSDS | Chieago, III. |  |  | WQDQ | New Orlenss, La. |
| . 411 | 85.40 | KGJW | Brownsville, Tex. |  |  | WSDB | Jackson, Miss, |
|  |  | WKDL | Miami, Fla. |  |  | WSDE | Tuscaloosa, Ah. |
|  |  | WMDU | San Juan, P. R. |  |  | WSDF | Louisville Ky . |
| 5.560 | 83.92 | KGPL | Kingman, Aris. |  |  | WSFG | Chicago, Ill. |
|  |  | KGSC | Oklahoms City, Okla. |  |  | WSDH | Nashville Tean. |
|  |  | KGTD | Wichita, Kans. |  |  | WSDI | Cincinnati, Ohio |
|  |  | KGTJ | Las Vegus, Nev. |  |  | WSDK | Memphis, Tenn. |
|  |  | KGTN | Las Vegas, Nev. |  |  | WSDP | Columbus, Ohio |
|  |  | KGTQ | 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. |  |  | WEEE | Greensboro, N. C . |
|  |  | KSX | Albuquerque, N. M. |  |  | WEEEM | Jacksonville, Fla. |
|  |  | WAEA | Indianapolis, Ind. |  |  | WEEO | Orlando, Fla. |
|  |  | WAEB | 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 . |  |  | KOX | Bakersfield, Calif. |
|  |  | WHG | Columbus, Ohio |  |  | KVO | Portland, Ore. |
|  |  | WHM | Indianapolis, Ind. |  |  | KZJ | Seattle, Wash. |
| 5.600 | 53.54 | KDD | Pasco, Wash. |  |  | WSDC | Newark, N. J. |
|  |  | KFO | Oakland, Calif. |  |  | WSDM | Albany, N. Y. |
|  |  | KGQZ | San Diego, Calif. |  |  | W8D0 | Buffalo, N. Y. |
|  |  | KGTE | Wichita, Kans. |  |  | WSDQ | Cleveland, Ohio |
|  |  | KJE | Reno, Nev. | 5.678 | 52.80 | VK3LR | Melbourne, Australia |
|  |  | KKO | Elko, Nev. | 5.689 | 52.70 | FIUI | Tananarive, Madagnscar |
|  |  | KMP | Omaha, Neb, | 5.766 | 52.00 | -WAM | Merida, Yucatan |
|  |  | KNAS | Kansas City, Mo. | 5.879 | 51.00 | HKB |  |
|  |  | KNAT | Dallas, Tex. |  |  | *XDA | Mexioo City, Mex. |
|  |  | KNAY | Oklahoms City, Okls. | 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 | Barranquills, Colombia |
|  |  | KOD | Salt Lake City, Utah |  |  | RV59 | Moscow, U.S.S.P. |
|  |  | KQS | Cheyenne, Wyo. |  |  | ZGE | Kuala Lampur, Malay |
|  |  | KQK | Bakersfield, Calif. | 6.000 | 49.97 | EAJ25 | Barcelona, Spain |
|  |  | KQM | Des Moines, Iowa |  |  | YV2BC | Carneas, Venezuela |
|  |  | KQQ | Iowa City, Iowa |  |  | ZLSZC | Christchurch, N. Z. |
|  |  | KRA | Boise, Idaho | 6.005 | 49.93 | VE9DR | Montreal, P. Q. |
|  |  | KRD | Redding, Calif. | 6.020 | 49.80 | DJC | Konigs Wusterhausen, Ger. |
|  |  | KRF | Lincoln. Neb. | 6.036 | 49.67 | *W4XB | Miami, Fla. |
|  |  | WNAK | Cleveland, Ohio | 6.040 | 49.64 | WIXAL | Boston, Mass. |
|  |  | WNAL | Brooksville, Pa. | 6.050 | 49.56 | GSA | Daventry, England |
|  |  | WNAM | Bellefonte, Pa. | 6.057 | 49.50 | CMCI | Havana, Cuba |
|  |  | WQDU | Aurora, III. |  |  | ZL22XX | Wellington, N. Z. |
|  |  | WUCG | Chicago, Ill. |  |  | W3XAU | Philudelphis, Pa. |
| 5.609 | 53.45 | KGTV | Beaumont, Calif. | 6.060 | 49.48 | W8XAL | Cincinnati, Ohio |
|  |  | KGUO | Tueson, Aria. |  |  | VQ7LO | Nairobi, Kenya, Africa |
|  |  | WAEK | Mobile, Ala. | 6.065 | 49.44 | SAJ | Motala, Sweden |
|  |  | WSDD | Boston, Mass. | 6.070 | 49.39 | VE9C8 | Vancouver, B, C. |
| 5.630 | 53.25 | KGTF | San Diego, Calif. | 6.072 | 49.37 | UOR2 | Vienna, Austria |
|  |  | KGT8 | Omaha, Neb. | 6.076 | 49.34 | W9XAA | Chicago, III. |
|  |  | KGUA | El Paso, Tex. | 6.090 | 49.23 | VE9BJ | St. John, N. B. |
|  |  | KGUB | Houston, Tex. | 6.094 | 49.20 | JB | Johannesburg, So. Afriea |
|  |  | KGUC | Fort Worth, Tex. | 6.095 | 49.19 | W9XF | Chicago, III. |
|  |  | KGUD | San Antonio, Tex. | 6.096 | 49.18 | W3XAL | Boundbrook, N. J. |
|  |  | KGUE | Brownsville, Tex. | 6.110 | 49.07 | VUC | Calcutta, Ind a |
|  |  | KGUF | Dallas, Tex. | 6.116 | 49.02 | W2XE | Wayne, N. J. |

WORLD SHORT WAVE STATIONS

| 6.119 | 49.00 | YV1BC | Caracas, Veneruela | 8.562 | 35.02 | *W00 | Ocean Gate, N. J. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6.121 | 48.98 | VE9HX | Halifax, N. S . | 8.566 | 35.00 | IBEJ | S.8. Conte Rosso |
| 6.125 | 48.95 | YV11BMO | Maracaibo, Venezuela |  |  | ICEJ | 8.8. Rex |
| 6.140 | 48.83 | W8XK | E. Pittaburgh, Pa. |  |  | IDLI | 8.8. Conte di Saveia |
| 6.150 | 48.75 | VE9CL | Winnipeg, Man. | 8,646 | 34.56 | GBC | Rugby, England |
| 6.220 | 48.20 | 12RO | Rome, Italy | 8.690 | 34.50 | W2XAC | Schenectady, N. Y. |
| 6.250 | 47.97 | CN8MC | Casablanca, Morocco | 8.830 | 33.95 | GDLJ | 8.8. Homeric |
| 6.335 | 47.33 | VE9AP | Drummondville, Que. |  |  | GFWV | S.8. Majestic |
| 6.378 | 47.00 | HKS | Cali, Columbis |  |  | GKFY | 8.8. Minnetonka |
|  |  | HC1DR | Quito Ecuador |  |  | GLSQ | 8.8. Olympic |
| 6.386 | 46.96 | W3XI | Boundbrook, N. J. |  |  | GMBJ | S.8. Empress of Britain |
| 6.430 | 46.63 | PCM | The Hague, Holland |  |  | GMJQ | S.S. Belgenland |
| 6.480 | 46.27 | TGW | Guatamala City, Guatamala |  |  | *VTSX | S.8. 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 |  |  | NPO | Cavite, Manila, Ph . Is. |
|  |  | XFD | Mexico City, Mex. | 8.925 | 33.59 | *WEC | Rocky Point, N. Y. |
| 6.675 | 44.91 | DGK | Nauen, Germany | 8.945 | 33.52 | *WEL- |  |
| 6.705 | 44.71 | *WER | Rocky Point, N. Y. |  |  | *W2XBJ | Rocky Point, N. Y. |
| 6.720 | 44.61 | *WQO | Rocky Point, N. Y. | 8.950 | 33.50 | TGX | Guatemala City, Guatemala |
| 6.732 | 44.54 | *WEJ- |  | 9.012 | 33.27 | *KEJ | Bolinas, Calif. |
|  |  | *W2XBJ | Rocky Point, N. Y. | 9.014 | 33.26 | 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 | Maracay, Venezuela |
| 6.860 | 43.71 | *KEL | Bolinss, Calif. | 9.273 | 32.33 | GCB | Rugby, England |
| 6.888 | 43.54 | *KEQ | Kahuku, Hawaii | 9.290 | 32.27 |  | Rabat, Morocco |
| 6.900 | 43.45 | IMA | Roma, Italy | 9.340 | 32.10 | CGA | Drummondville, Que- |
|  |  | GDS | Rugby, England | 9.370 | 32.00 | CT3AQ | Funchel, Madeira |
| 6.924 | 43.30 | *WEZ | Rocky Point, N. Y. | 9.375 | 31.97 | *XDA | Mexico City, Mex. |
| 7.105 | 42.20 | HKN | Nedelin, Colombia | 9.410 | 81.86 | PLV | Bandoeng, Java |
| 7.122 | 42.10 | HKK | Cali, Colombia | 9.448 | 31.74 | *WES- |  |
| 7.139 | 42.00 | HJ4ABB | Manizales, Colombia |  |  | *W2XBJ | Rocky Point, N. Y. |
| 7.184 | 41.75 | CM2MK | Havana, Cubs | 9.455 | 31.71 | *WKJ | Rocky Point, N. Y. |
| 7.195 | 41.67 | VK6AG | Perth, Australis | 9.480 | 31.63 | PLW | Bandoeng, Java |
|  |  | V81AB | Singapore, Straits Settlement | 9.488 | 31.60 | *WEF- |  |
| 7.207 | 41.60 | EAR58 | Teneriffe, Canary Islands |  |  | *W2BJ | Rocky Point, N. Y. |
| 7.312 | 41.00 | CM5RY | Matanzas, Cuba | 9.492 | 31.58 | PRBA | Rio de Janeiro, Brazil |
| 7.384 | 40.60 | ZLT | Wellington, N. Z. | 9.500 | 31.56 | YV3BC | Caraeas, Veneruela |
| 7.396 | 40.54 | *WEM |  | 9.503 | 31.55 | VK3ME | Melbourne, Australia |
|  |  | *W2XBJ | Rocky Point, N. Y. | 9.510 | 31.53 | GSB | Daventry, England |
| 7.402 | 40.50 | HKI | Bogota, Colombia, | 9.520 | 31.49 | OXY | Copehagen, Denmark |
| 7.410 | 40.46 | *WEG | Rocky Point, N. Y. | 9.530 | 31.46 | W2XAF | Schenectady, N. Y. |
| 7.465 | 40.16 | *HJB | Bogota, Columbia | 9.552 | 31.38 | DJA | Zeesen, Germany |
| 7.501 | 39.97 | RKI | Moscow, U.S.S.R. | 9.560 | 31.36 | W1XAZ | Springfield, Mass. |
| 7.518 | 39.89 | *KDK- |  | 9.570 | 31.33 | SR1 | Poznan, Poland |
|  |  | *KKH | Kahuku, Hawaii | 9.580 | 31.30 | HBL | Geneva, Switzerland |
| 7.550 | 39.71 | CGE | Calgary, Alta. | 9.585 | 31.28 | GSC |  |
|  |  | CKS | Calgary, Alta. |  |  | VK2ME | Sydney, Australia |
| 7.562 | 39.65 | *KWY | Dixon, Calif. |  |  | W3XAU | Philadelphia, Pa. |
| 7.605 | 39.42 | *KWX | Dixon, Calif. | 9.592 | 81.25 | CTIAA | Lisbon, Portugal |
| 7.621 | 39.34 | RIM | Irkutsk, U.S.S.R. | 9.600 | 81.23 | LQA | Buenos Aires, Argentina |
| 7.685 | 39.01 | TIR | Cartago, Costa Rica | 9.609 | 31.20 | DGU | Nauen, Germany |
| 7.715 | 88.86 | *KEE | Bolinas, Calif. | 9.670 | 31.00 | TI4NRH | Heredia, Costa Rica |
| 7.758 <br> 7770 <br> 7.750 | 38.65 38.59 |  | Kootwijk, Holland | 9.070 9.702 | 30.90 | GCA | Rugby, England |
| 7.770 7.790 | 38.59 38.49 | HBP | St. Assise, France Geneva, Switzerland | 9.742 | 80.77 | *WOF | Lawrenceville, N. J. |
| 7.830 | 38.29 | PDV | Kootwijk, Holland | 9.750 | 30.75 | VK2ME- |  |
| 7.876 | 38.07 | J1AA | Kemikawa-Cho, Japan |  |  | VLK | Sydney, Australia |
| 7.940 | 37.76 | VK2ME | Sydney, Australis | 9.772 | 30.68 | EAM | Madrid, Spain |
| 7.995 | 37.50 | HC2JSB | Quito, Eeuador | 9.798 | 30.60 | GCW | Rugby, England |
| 8.103 | 37.00 | HCJB | Quito, Ecuador | 9.840 | 30.47 | FTI | St. Assisse, France |
| 8.180 | 36.65 | PSK | Rio de Janeiro, Brazil | 9.862 | 30.40 | WON | Lawrenceville, N. J. |
| 8.328 | 36.00 | DDAC | S.S. Europa |  |  | EAQ | Madrid, Spain |
|  |  | DDAS | S.S. Bremen |  |  | J1AA | Kemikawa-Cho, Japan |
|  |  | DDBR | 8.S. Berlin | 9.890 | 30.32 | LSA | Buenos Aires, Argentina |
|  |  | DDCB | S.8. Columbus | 9.895 | 30.30 | LSN | Buenos Aires, Argentins |
|  |  | DDCG | S.S. Resolute | 9.928 | 30.20 | *HJY | Bogota, Columbia |
|  |  | DDCP | 8.8. Cap Polonio | 9.942 | 30.15 | GBU | Rugby, England |
|  |  | DDDT | S.S. Deutchland | 9.993 | 30.00 | LSL | Buenos Aires, Argentina |
|  |  | DDDX | S.S. Hamburg | 10.000 | 29.98 |  | Belgrade, Yugo Slavia |
|  |  | DDEA | S.S. Cap Arcona | 10.051 | 29.83 | SUV | Cairo, Egypt |
|  |  | DDED | S.S.New York | 10.060 | 29.80 | *VRT-ZFB | Hamilton, Bermuda |
|  |  | DDFF | S.S. Reliance | 10.135 | 29.58 | OPM | Leopoldville, Belgian Congo. |
|  |  | DDFT | S.S. Oceana | 10.163 | 29.50 | DDAC | S.S. Europa |
|  |  | DDNY | S.S. Albert Ballin |  |  | DDAS | S.S. Bremen |
| 8.464 | 35.42 | DAF | Norden, Germany |  |  | DDBR | 8.8. Berlin |

WORLD SHORT WAVE STATIONS

|  |  | $\begin{aligned} & \text { DDCB } \\ & \text { DDCG } \\ & \text { DDCP } \\ & \text { DDDT } \\ & \text { DDDX } \\ & \text { DDEA } \\ & \text { DDED } \\ & \text { DDFF } \\ & \text { DDFT } \\ & \text { DDNY } \end{aligned}$ | S.S. Columbus <br> S.S. Resolute <br> 8.8. Cap Polonio <br> 8.8. Deutachland <br> S.S. Hamburg <br> 8.S. Cap Arcona <br> S.S. New York <br> S.S. Reliance <br> 8.S. Oceans <br> S.S. Albert Ballin | 13.074 13.220 $13.296$ | $\begin{aligned} & 22.93 \\ & 22.68 \end{aligned}$ <br> 22.68 <br> 22.55 | $\begin{aligned} & \text { JIAA } \\ & \text { GDIW } \\ & \text { GFWV } \\ & \text { GKFY } \\ & \text { GLSQ } \\ & \text { GMBI } \\ & \text { GMJQ } \\ & \text { *VTSX } \\ & \text { WSBN } \\ & \text { CGA } \end{aligned}$ | Kemikawa-Cho, Japan <br> S.S. Homeric <br> 8.8. Majestic <br> 8.8. Minnetonka <br> 8.8. Olympic <br> 8.8. Empress of Britain <br> 5.8. Belgenland <br> 8.8. Monarch of Bermuda <br> 8.8. Leviathan <br> 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 | DIO | Zeesen, Germany | 13.469 | 22.26 | *WAJ | Rocky Point, N. Y. |
| 10.324 | 29.04 | ORK | 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 | Skekesfehevar, Hungary |
|  |  | ISY | Buenos Aires, Argentina | 13.690 | 21.90 | *KKZ | Bolinas, Calif, |
|  |  | PDK | Kootwijk, Holland | 13.740 | 21.82 | CGA | Drummondville, P. Q. |
|  |  | PKP | Medan, Sumatra | 13.776 | 21.77 | *KKW | Dixon, Calif. |
| 10.520 | 28.50 | VK2ME | Sydney, Australis | 13.816 | 21.70 | SUZ | Cairo, Egypt |
| 10.540 | 28.44 | *WOK | Lawrenceville, N. J. | 13.860 | 21.63 | *WIY- |  |
| 10.601 | 28.28 | *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 | 27.68 | *KWV | Dixon, Calif. | 14.450 | 20.75 | GBW | Rugby, England |
| 10.962 | 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 | XAM | Merids, Yueatan | 14.550 | 20.60 | HBJ | Geneva, Switzerland |
| 11.470 | 26.15 | IBDK | 8.S. Electra | 14.582 | 20.56 | *WMN | Lawrenceville, N. J. |
| 11.644 | 25.75 | PPQ | Rio de Janeiro, Brazil | 14,630 | 20.50 | *XDA | Chapultepec, Mex, |
| 11.680 | 25.67 | *YVQ | Maraeay, Venczuela | 14.682 | 20.27 | *WKU- <br> *W2XBJ | Rio de Janeiro, Brazil |
| 11.711 | 25.60 | ㅂ․…. | Kahuku, Hswaii Pontoise, France | 14.706 |  |  |  |
| 11.725 | 25.57 | PHOHI | Huizen, Holland | 15.051 | 19.92 | *WNC |  |
| 11.753 | 25.51 | DJD | Koenigswusterhausen, Germany <br> Daventry Encland | $\begin{aligned} & 15,066 \\ & 15.104 \end{aligned}$ | $\begin{aligned} & 19.90 \\ & 19.85 \end{aligned}$ | $\begin{aligned} & \text { T14NRH } \\ & \text { RAU } \end{aligned}$ | Heredia, Costa Rica Tashkent, U.S.S.R. |
|  |  | GSD |  | 15.120 | 19.83 | HVJ | Vatiean City, Italy |
| 11.760 | 25.50 | *XDA | Mexico City, Mex. | 15.140 | 19.81 | GSF | Daventry, England |
| 11.790 | 25.42 | W1XAE, | Boston, Mass. | 15.190 | 19.73 | DJB | Zeesen, Germany |
| 11.800 | 25.40 | I2RO | Rome, Italy | 15.204 | 19.72 | W8XK | Pittaburgh, Pa. |
| 11.822 | 25.36 | W2XE | Wayne, N. J. | 15.280 | 19.62 | $\begin{aligned} & \text { W2XE } \\ & \text { W2XAD } \end{aligned}$ | Pontoise, France Wayne, N. J. |
| 11.870 | 25.27 | vUC GSE W8XK | Calcutta, British India | 15.320 | 19.57 |  | Wayne, N. J. <br> Scbenectady, N. Y. |
|  |  |  | Daventry, England | 15.344 | 19.54 | *KWU | Dixon, Calif. |
| 11.872 | 25.25 |  | Pittsburgh, Pa. | 15.410 | 19.46 | *KW0 | Dixon, Calif. |
| 11.898 | 25.20 |  | Pontoise, France | 15.681 | 19.12 | FTK | St. Assise, France |
| 11.923 | 25.16 | RW50 | Moskva Imeni Popova, USSR | 15.760 | 19.02 | J1AA | Tokyo, Japan |
| 11.935 | 25.12 | FTA | St. Assise, France | 15.950 | 18.80 | PLG | Bandoeng, Java |
| 11.969 | 25.05 | *KKQ | Bolinas, Calif. | 16.024 | 18.71 | *KKP | Kahuku, Hawaii |
| 12.000 | 24.99 | FZG | Saigon, Indo-China | 16.060 | 18.66 | NAA | Arlington, Va . |
| 12.045 | 24.89 | NAA | Arlington, Va, | 16.150 | 18.56 | GBX | Rugby, England |
|  |  | NSS | Annapolis, Md. | 16.162 | 18.55 | PSA | Rio de Janciro, Brazil |
| $\begin{aligned} & 12.150 \\ & 12.190 \end{aligned}$ | $\begin{aligned} & 24.68 \\ & 24.60 \end{aligned}$ | FQO-FQE GBS | St. Assise, France Rugby, England | 16.200 | 18.51 | FZR | Saigon, Indo-China |
|  |  | GBX | Rugby, England | 17.080 | 17.55 | GBC | Rugby, England |
| 12.290 | 24.40 | PLM | Bandoeng, Java | 17.110 | 17.52 | *W00 | Ocean Gate, N. J. |
|  |  | ZLW | Wellington, N. Z. | 17.122 | 17.51 | HAS | Skékèsfehevar, Hungary |
| 12.394 | 24.19 | DAF | Norden, Germany | 17.260 | 17.37 | DAF | Norden, Germany |
| 12.780 | 23.46 | GBC | Rugby, England | 17.287 | 17.34 | IBEJ | S.8. Conte Rosso |
| 12.785 | 23.45 | IAC | Coltana, Italy |  |  | ICEJ | 8.8. Rex |
| 12.820 | 23.38 |  | Rabat, Moroceo |  |  | IDLI | S.S. Cente di Savoia |
| 12.836 | 23.36 | *W00 | Ocean Gate, N. J. | 17.512 | 17.12 | DFB | Nawen, Germany |
| 13.040 | 23.00 | DDAC | S.S. Europa | 17.580 | 17.05 | GDIJ | S.8. Homeric |
|  |  | DDAS | S.S. Bremen |  |  | GFWV | 8.8. Majestic |
|  |  | DDBR | S.S. Berlin |  |  | GKFY | S.S. Minnetonka |
|  |  | DDCB | S.8. Columbus |  |  | GISQ | S.S. Olympic |
|  |  | DDCG | S.S. Resolute |  |  | GMBJ | S.S. Empress of Britain |
|  |  | DDCP | S.S. Cap Polonio |  |  | GMJQ | S.S. Belgenland |
|  |  | DDDT | S.S. Deutschland |  |  | *VTSX | S.S. Monarch of Bermuda |
|  |  | DDDX | S.S. Hamburg |  |  | WSBN | S.S. Leviathan |
|  |  | DDEA | S.S. Cap Arcona | 17.719 | 16.92 | HSP | Bangkok, Siam |
|  |  | DDED | S.S. New York | 17.760 | 16.88 | DJE | Konigswusterhausen, Ger. |
|  |  | DDFF | S.S. Reliance |  |  | GSG | Daventry, England |
|  |  | DDFT | S.S. Oceana |  |  | PHI | Huizen, Holland |
|  |  | DDNY | S.S. Albert Ballin | 17,772 | 16.87 | W3XAL | Bound Brook, N. J. |


| 17.780 | 16.86 | W8XK | Pitts | 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 | Tamatore, 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, III. | 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 | Maracay, Venezuels | 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, Argentins |
| 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 | *HJY | 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 | Pittaburgh, 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 | RW61 | Moekva 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

| 13.219 | 22.68 |
| :---: | :---: |
| 8.831 | 33.95 |
| 4.174 | 71.82 |
| CEC Sa | Santiago, Chile |
| 19.678 | $15.24 \quad 11 \mathrm{a} . \mathrm{m} .4$ p.m |
| CGA D | Drummondville, Que. |
| 13.296 | 22.55 9a.m. to $2 \mathrm{p} . \mathrm{m}$. |
| CMCI | Havana, Cuba |
| 6.057 | 49.50 8 p.m.-11 p.m. |
| CM5RY | Matanzas, Cuba |
| 7.312 | $41.03 \mathrm{~S} \mathrm{a} \mathrm{t}. \mathrm{10:45-1}$ |

CNR Rabat. Morocco P $12.820 \quad 23.38$
CT1AA Lishon, Portugn! Bri.5-7 p.m
CT3AQ Punchal, Maderia B
$11.174 \quad 26.83$ Tues--Thur. $5-6: 30$ $\mathrm{pm}$. ; Sun. 10:30noon
DAF Norden, Germany
$17.260 \quad 17.37$ Talks to Ships $12.394 \quad 24.19$ $8.464 \quad 35.42$
DFB Nauen, Germany 17.512 17.12 Phones YVQ

DGK Nauen, Germany $6.675 \quad 44.91$
DHO Nauen, Germany $20.028 \quad 14.97$
DIQ Nauen, Germany $10.246 \quad 2926$
DJA Zeesen, Germany B $9.552 \quad 31.38 \quad 2$ p.m. $-6: 30$
DJB Zeeven, Germany
$15.190 \quad 19.73 \quad 8$ a.m.-noon

DJD Zeesen, Germany $11.753 \quad 25.51$
DJE Zeesen, Germany $\begin{array}{ll}17.761 & 16.88\end{array}$
EAQ Madrid, Spain $9.862 \quad 30.40 \quad$ 5:30-7 p.m.; Sat. 13 p.m.
19.684 15.23 Phones

FTM St. Assise, France $19.282 \quad 15.55 \quad 10$ a.m.-2 p.m.
FZS Saigon Indo-China $12.000 \quad 24.98 \quad 9-10 \mathrm{a} . \mathrm{m}$.
German Ships P $13.035 \quad 23.00$ $10.163 \quad 29.50$ $8.328 \quad 36.00$ $4.174 \quad 71.82$
GBB Rugby, England $13.500 \quad 22.09$
GBC Rughy, Enghand $\begin{array}{lll}12.780 & 23.46\end{array}$ $17.080 \quad 17.55$
GBW Rugby, England $14.450 \quad 20.75 \quad 6 \mathrm{a} . \mathrm{m} .-6 \mathrm{p} . \mathrm{m}$.
GBX Rugby, England $16.150 \quad 18.56 \quad 4$ p.m. $-11 \mathrm{p} . \mathrm{m}$.
GSA Daventry, England $6.050 \quad 49.56$ Broadeasts for South Africa 1:00-3:00 p.m.; West Africs 3:30-5:30 p.m.; Canada $8-10 \mathrm{pm}$.

B GSB Daventry, England $\begin{array}{rr}9.510 & 31.53 \\ & \text { Broudcasts for South } \\ \text { Africa } 1: 00-3: 00 \\ \text { pr.m.; West Africa } \\ & 3: 00-5: 30 \mathrm{p} . \mathrm{m} . \text {; } \\ & \text { Canada } 8-10 \mathrm{D} . \mathrm{m} .\end{array}$
GSC Daventry, England $9.585 \quad 31.28$
GSD Daventry, England B 11.750 25.51 Broadcasts for Australasin 4:30-6:30 a.m.; 1:00-3:00 p. m.; 3:30-5:30 p.m.

GSE Daventry, England
11.865 25.27 Broadeasts for India $9: 30-11: 30 \mathrm{a} . \mathrm{m}$.
GSF Daventry, England $15.140 \quad 19.81$
GSG Daventry, England B $17.770 \quad 16.90^{\prime}$ Broadeasts for India 9:30-11:30 a.m.
GSH Daventry. England $21.470 \quad 13.96$
HBJ Genevn, Switzerland P $14.550 \quad 20.60$
HBL Geneva, Switzerland B $9.580 \quad 31.30$ Sun. 5-5:45 p.m.
HBP Geneva, Switzerland B $7.790 \quad 38.49$ Sun. 5-5:45 p.m.
HCJB Quito. Ecuador
:30-9:45 p.m.; except Monday
HJB Bogota, Colombia
P $14.930 \quad 20.08$
HJY Bogota, Colombia P $9.928 \quad 30.20$ $18.444 \quad 16.25 \quad 11 \mathrm{a} . \mathrm{m} .4 \mathrm{p} . \mathrm{m}$.

HJ1ABB Barranquilla, Colombia B $\begin{array}{lll}5.996 & 50.0 & 8-10 \\ \text { p.m. }\end{array}$
HJ4ABB Manizales, Colombla B $7.139 \quad 42.00 \quad \mathrm{Sat} .10 \mathrm{p} . \mathrm{m}$-mid.
$\begin{array}{cc}\text { HJ4ABE Medellin, Colombis B } \\ 5.925 & 50.60 \text { Mon. Wed., Fri., }\end{array}$ 7:30-10:30 p.m.; Tues., Thurs, Sat. and Sun., 6-8 p.m.
HVJ Vatican City $15.120 \quad 19.83 \quad 5-5: 15 \mathrm{a} . \mathrm{m}$.
IAC Coltano, Italy $6.648 \quad 45.10$
I2RO Rome, Italy $11.800 \quad 25.40$ il a.m. $-12: 30 \mathrm{pm}$ 2:30-5:30 p.m
Italian Ships $8.566 \quad 35.00$ $4.283 \quad 70.00$
J1AA Kemikawa-Cho, Japan B $\begin{array}{lll}9.862 & 30.40 & 5: 00-7: 45 \mathrm{a} . \mathrm{m} . \\ 13.074 & 22.93 & \text { Phones }\end{array}$ 13.07422 .93 Phones 15.760 19.02 Phones

KDK-KKH Kahuku, Hawall $7.518 \quad 39.89 \quad 9 \mathrm{p} . \mathrm{m} .-2 \mathrm{a} . \mathrm{m}$.
KEN Bolinas, Calif. $9.012 \quad 33.27$
KKP Kahuku, Hawaii $16.024 \quad 18.71$
KWO Dixon, Calif. $\begin{array}{llll}15.410 & 19.46 & 2-5 \\ \text { p.m. }\end{array}$
KWV Dixon, Calif. $10.830 \quad 27.68$
LSG Buenos Aires, Arg. P $19.895 \quad 15.07 \quad 10: 30 \mathrm{a}, \mathrm{m} .-3: 30 \mathrm{p} . \mathrm{m}$.
LSN Buenos Aires, Arg. $9.895 \quad 30.30 \quad 6$ p.m.-6 a.m. $21.020 \quad 14.27 \quad 8$ a.m.-4 p.m.
LSR Buenos Aires, Arg.
$18.958 \quad 15.82 \quad 11$ a.m. -4 p.m.
LSY Buenos Aires, Arg.
$20.820 \quad 14.40$
OCI Lima, Peru $18.670 \quad 16.05 \quad 2$ p.m.
OPM Leopoldville, B. Congo $10.090 \quad 29.70$
ORK Brussels, Belgium $10.340 \quad 28.99$
OXY Skamleback, Denmark B $9.520 \quad 31.49 \quad 2-6: 30 \mathrm{p} . \mathrm{m}$.
PCK Kootwijk, Holland $18.400 \quad 16.29$
PCV Kootwijk, Holland $17.830 \quad 16.82 \quad 6-9 \mathrm{a} . \mathrm{m}$.
PHI Huizen, Holland
17.761 16.88 Irregular

PHOHI Huizen, Holland $11.725 \quad 25.57$
PLE Bandoeng, Java 18.820 15.93 Tues., Fri., 5:40 10:40 $\mathrm{s} . \mathrm{m}$.

P
P

PLW Bandoeng, Java $9.480 \quad 31.63$
PMC Bandoeng, Java
P
$\begin{array}{llll}18.170 & 16.50 & 3: 30-9 \mathrm{a} . \mathrm{m} .\end{array}$
Pontoise. France
$15.234 \quad 19.68 \quad 8-11 \mathrm{a} . \mathrm{m}$.
$\begin{array}{lll}11.898 & 25.20 & 11: 30 \mathrm{a} . \mathrm{m} .-2: 30 \mathrm{p} . \mathrm{m} .\end{array}$ $11.710 \quad 25.60 \quad 4-7 \mathrm{p} . \mathrm{m}$.
PPU Rio de Janeiro, Braxil P
$19.270 \quad 15.57 \quad$ 10:30 a.m. $3: 30$ p.m.
PRADO Riobambs, Ecuador B 6.618 45.31 Thurs, $9-11$ p.m.

PSA Rio de Janeiro, Brazil $21.069 \quad 14.23 \quad 8 \mathrm{a} . \mathrm{m}$.
PSH Rio de Janeiro, Brazil
P
P $10.212 \quad 29.35$
PSS Rio de Janeiro, Braxil $14.682 \quad 20.42 \quad 5-6 \mathrm{p} . \mathrm{m}$.
Rabat, Morocco
$9.290 \quad 32.27$ Sun., 3-5 p.m.
RAU Tashkent, USSR.
$15.104 \quad 19.85$ Phones Moscow
RV-15 Khabarovek, USSR. $4.273 \quad 70.65 \quad 3-9 \mathrm{a}, \mathrm{m}$.
RV59 Moscow, USSR. $\begin{array}{llll}5.996 & 50.0 & 3-7 & \text { p.m. }\end{array}$
RXC Panams City, Panama $14.485 \quad 20.69$
SR-1 Pornan, Poland B $9.570 \quad 31.33$ Tues., 6-8 a.m.
SUZ Cairo, Egypt P
$13.816 \quad 21.70 \quad 7$ a.m.-3:30 p.m.
VE9AP Drummondville, Que. B $6.335 \quad 47.35$
VE9BJ St. John, N. B. $6.090 \quad 49.23 \quad 5 \mathrm{p} . \mathrm{m} .-11 \mathrm{p} . \mathrm{m}$.
VE9CI London, Ont. $\qquad$ 2.735109 .62 Daily ${ }^{9-11}$ p.m.;

VE9CS Vancouver B. 6.07049 .39 Daily, 8-10 p.m.

VE9DR Drummondville, Que. $6.005 \quad 49.93 \quad 7: 30 \mathrm{~s} . \mathrm{m}$-mid.; Sun., noon to 11:15 p.m.
VE9JR Winnipeg. Man.
11.71025 .60 Tues, $6: 30-8: 30$ p.m. Fri. to 9.
VK2ME Sydney, Auatralia B 9.58531 .28 Sun. 1-3 a.m.; 5-9 a.m.; 9:30-11 s.m.

VK3ME Melbourne, Australia B 9.503 31.55 Wed. 5-6:30 a.m.; Sat. 5-7 a.m.
VPN Nassau, Bahamas. 4.50866 .50 Phones WNC

VQ7LO Nairobi, Kenya B 6.06049 .48 Daily 11 a.m. $-3: 30$ p.m.; Tues. 3-4 a.m.; Thur. 8-9 a.m

VRT-2FA Hamilton, Bermuda $P$ $5.045 \quad 59.42$

VRT-ZFB Hamilton, Bermuda $10.060 \quad 29.80$
WKA Lawrenceville, N. J. P $21.05414 .24 \quad 8 \mathrm{a} . \mathrm{m} .4 \mathrm{p} . \mathrm{m}$.
WKK Lawrenceville. N. J. $21.400 \quad 14.01 \quad 8$ a.m. -4 p.m.
WNC Hialeah, Florida
15.051 19.02, Phorida P 15.051 19.92 Phones Pan-American stations
W00 Ocean Gate, N. J.
P
12.839 23.36 Phones Shipe
$8.561 \quad 35.02$
$4.749 \quad 63.13$
W1XAL Boston, Mass. B $6.040 \quad 49.64$ Irregular
WIXAZ Springfield, Mass. B $9.560 \quad 31.36 \quad 7: 00$ a.m. $-1: 00 \mathrm{a} . \mathrm{m}$.
W2XAD Schenectady, N. Y. B
$15.320 \quad 19.57$ Daily $1-3$ p.m.; Sat., Sun, to 4.
W2XAF Schenectady, N. Y. B 9.53031 .46 Daily, 7-11 p.m.

W3XAL Boundbrook, N. J. B $6.096 \quad 49.17$ Sat. $4: 30$ p.m.-1 a.m. $17.772 \quad 16.87 \quad 8$ a.m. -4 p.m.
W3XAU Philsdelphis, Pa. 9.585 31.28 Irregular $6.057 \quad 49.50$
W4XB Miami, Fla. B $6.036 \quad 49.67$
W8XAL Cincinnati, Ohio B 6.060 49.48 Relays WLW 6a.m.10:30 a.m.; 1:303:30 p.m.; 7 p.m.1:30 a.m.
W8XK Pittsburgh, Pa. B 6.140 48.83 Relays KDKA 4-11 $11.879 \quad 25.25$ p.m.
15.20419 .72 Relays KDKA 9 a. m.-4 p.m.

W9XAA Chicago. III. $6.076 \quad 49.34$ Sum 11 s.m- ${ }^{-1}$ B
W0XF Chicago, III $6.095 \quad 49.18 \quad 4: 30-8$ p.m.; $9: 30-2$
XAM Merida, Yucatan
$5.766 \quad 52.00$
$11.530 \quad 26.00$
XDA Mexico City P $\begin{array}{lll}5.879 & 51.00\end{array}$
$11.760 \quad 25.50$
YVQ Maracay, Venezuela P $\begin{array}{llll}13.278 & 22.58 & \\ 11.680 & 25.67 & 5-7 & \text { p.m. }\end{array}$ $18.296 \quad 16.39$
YV1BC Caracas, Venz. B 6.119 49.00 Relays 960 kes.; 10:30 a.m. -1 p.m. ;
$5: 15-10 \mathrm{p} . \mathrm{m}$
YV11BMO Maracaibo, Vens. $6.125 \quad 48.95 \quad 8-11$ p.m.

## Helpful Advice

(Continued from page 11)
changed radio frequency to the broadeast 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.

[^12]
## 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 -458 and -278 in my radio set to -47 s and $56 \mathrm{~s}, \mathrm{I}$ 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 $101 / 2$ 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 allwave 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 onetube 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, $8 \mathrm{XK}, 1 \mathrm{XAL}$ 2XAF. On the foreign s.w. band I have not done so well. I receive GSA at Daventry, 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, DJD 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.

RADIO PROGRAMS

|  | monday |  |  | tuedday |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Tine | Precram | Call | Dial | Procrion | Calt | Dial |
| 6.00 |  |  |  |  |  |  |
| 6:15 |  |  |  |  |  |  |
| 6.30 |  |  |  |  |  |  |
| 6:45 |  |  |  |  |  |  |
| 7.00 |  |  |  |  |  |  |
| 715 |  |  |  |  |  |  |
| 7:30 |  |  |  |  |  |  |
| 7:45 |  |  |  |  |  |  |
| 88:00 |  |  |  |  |  |  |
| 8:15 |  |  |  |  |  |  |
| 8:30 |  |  |  |  |  |  |
| 8.45 |  |  |  |  |  |  |
| 9.00 |  |  |  |  |  |  |
| 9:15 |  |  |  |  |  |  |
| 93.30 |  |  |  |  |  |  |
| 9:25 |  |  |  |  |  |  |
| 20:00 |  |  |  |  |  |  |
| 10:15 |  |  |  |  |  |  |
| $20: 30$ |  |  |  |  |  |  |
| 20:45 |  |  |  |  |  |  |
| 11.00 |  |  |  |  |  |  |
| 11-13 |  |  |  |  |  |  |
| 11.20 |  |  |  |  |  |  |
| 11:45 |  |  |  |  |  |  |
| 1200 |  |  |  |  |  |  |

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#### Abstract

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Please help in the preservation of old time radio by supporting legitimate organizations who strive to preserve and restore the programs and related information.


[^0]:    "John Henry, Black River Giant" (Juano Hernandez) with Georgia Burke of the allnegro cast on the Columbia network Sundays at 8:00 and at 8:45 p. m.

[^1]:    "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 25 th, broadcasts on the work of the League of Nations are given every Sunday from the League wirelessstation 'Radio-Nations,' in English from 5:00 to $5: 15 \mathrm{p} . \mathrm{m}$.; in French from $5: 15$ to $5: 30$ p. m.; in Spanish from $5: 30$ to $5: 45 \mathrm{p} . \mathrm{m}$. (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

[^2]:    EARPHONES CAN NOW BE USED ON ANY RECEIVER WITHOUT PHONE-JACK. Our PHONE RECEPTOR, attached in two minutes without tools, AUTOMATICALLY DISCONNECTS SPEAKER when phone-plug is inserted. NO CHANGES IN RECEIVER WIRING. Complete with cable, metal box, adapters, $\$ 3.95$.
    BALDWIN type C phones, $\$ 3.75$
    LYNCH No-stat Antenna $\$ 3.00$
    AMPLIVOX LABORATORIES, 82 East 95th St., Brooklyn, N. Y.

[^3]:    $\mathrm{E}-7: 45$ p.m., C-6:45, M-5:45, P-4:45 C - Boake Carter, News Flashes
    CKOK KMBC KMOX WABC WBBM WBT WCAO WCAU WCCO WGR WHAS WHK WJSV WNAC
    R - The Goldbergs
    KFYR KPRC WBEN WCAE WCSH WEAF WEEI WFAA WFBR WGY WJAR WKY WLIT WOAI WRC WTAG WTAM WWJ

[^4]:    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 WDAF WEAF WFBR WGY WHO WIBA WJAR 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 - Wheatenavilie, See Monday

[^5]:    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 WFBR WGY WHO WJAR WLIT WOC WOW WRC WSAI WTAG WTAM WWJ
    C-Edwin C. Hill, Inside Story
    CKOK KFH KL,RA KMBC KMOX KOMA KRLD KTRH KTSA WABC WADC WBCM WCAH WCAO WCAU WCCO WDRC WEAN WFBL WFBM WGN WHAD WHAS WHK WHP WIBW WJAS WJSV WKBH WKBW WKRC WLBW WLBZ WMBD WNAC WOKO WORC WOWO WREC WSPD B-Armour Program
    KDKA KDYL KFI KGO KGW KHQ

[^6]:    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 WDRC WDSU WEAN WFBM WFEA WGR WHEC WISN WJAS WJSV WKBH WLBW WLBZ WNAC WOKO WQAM WSFA WSPD WTAQ WTAR WTOC
    B - Murder Mystery, See Tuesday
    E-8:00 p.m., C-7:00, M-6:00, P-5:00 C Easy Aces, See Tuesday

[^7]:    E-11:30 p.m., C-10:30, M-9:30, P-8:30 C-Leon Belasco and Orchestra
    CFRB CKOK KFAB KLRA KLZ

[^8]:    E-12:30 p.m. C-11:30, M-10:30, P-9:30 R-Walter Logan Pop Concert
    CFCF CKGW KDYL KFYR KOA KPRC KSTP KTBS KVOO WAPI

[^9]:    E-4:15 p.m., C-3:15, M-2:15, P-1:15 B-Widrreot - Vee Lawnhurst
    KDYL KFI KGO KGW KHQ KOA KOMO WBEN WCAE WCSH WDAF

[^10]:    E-10:30 p.m., C-9:30, M-8:30, P-7:30 R - Donald Novis Tenor
    CFCF CKGW KYW WBEN WCAE

[^11]:    Symons Bdetg. Co. (Svmons Bldg.)
    Voice of South Dakota, Inc.
    Pensacola Bdetg. Co. (San Carlos Hot.)
    Casco Bay Broadcasting Co.
    Toledo Bdetg. Co. (Com. Perry Hotel)

[^12]:    "Radex is compact, complete, convenient and correct", alliterates A. C. Spear, 1825 Hamlin St., N. E., Washington, D. $C$.

