

THE MAY 1936

25^c

RADIO INDEX

The All-wave DX Log of the World



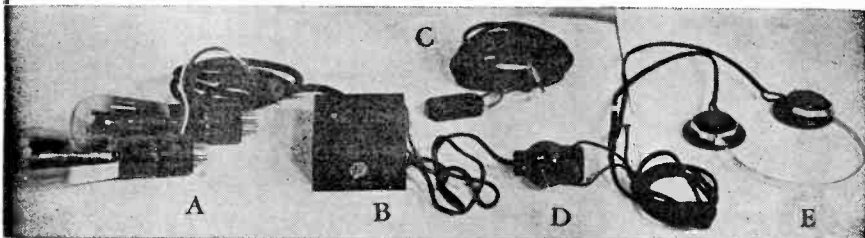
Tuning the Antenna Circuit
The Annoying Problem of Fading
Where and When to Tune
for the Day's News

All the Broadcast Stations of the World

No. 99

The "Perfect" Phone Adapter

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Distant Volume Control	2.00
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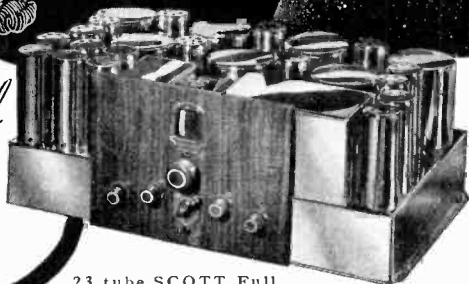
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The 2000-ohm phones will give excellent service. The 24,000-ohm phones are perhaps the very finest made being especially light and extremely sensitive. They were developed especially for the hard of hearing, airplane pilots, short wave work, etc.

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The Radex Press, Inc. Conneaut, Ohio

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23 tube SCOTT Full Range High Fidelity Classis. Furnished with 19 exclusively designed cabinets.

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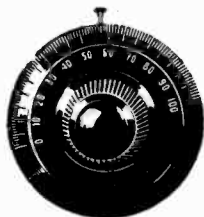
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May 1, 1936



RADIO INDEX



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TWELFTH YEAR

NUMBER 99

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Closing the MYSTERY CONTEST

• • • Announcing the Winners

AFTER several weeks of checking and rechecking entries, the judges have closed the books of the first Mystery DX Contest. The winners have been determined beyond shadow of doubt, individual station reports have been sent on to the respective broadcasters, and the final announcement is ready for our readers.

As brought forth in the April issue, Station CFCO decided at the last moment to remain on the air for a total of four hours. Although a few contestants reported this station four times, we were obliged to consider this as but a single program, eligible for a maximum of 20 points, regardless of when it was heard. While we regretted the necessity of subtracting as high as 60 points from some scores, final analysis has shown that this policy alone could be fair to every contestant.

No less than 57 non-participating stations were reported. Some of these were broadcasting special test or DX

programs, while others were operating on their regular late schedules. Most widely claimed were KROC and WTAL, each of whom was reported by 13 contestants. Neither of these two stations had been contacted by us in regard to the contest.

In judging all reports, we considered only the following "official" stations:

February 22

1:45-2:45	CKLW	1030	Windsor, Ont.
2:00-3:00	KFNF	890	Shenandoah, Iowa
	W0XB	1530	Kansas City, Mo.
	WBIG	1440	Greensboro, N. C.
	WFBR	1270	Baltimore, Md.
	KFYR	550	Bismarck, N. D.
2:00-6:00	CFCO	630	Chatham, Ont.
3:00-4:00	KGIW	1420	Alamosa, Colo.
	WDNC	1500	Durham, N. C.
	WNEW	1250	Newark, N. J.
4:00-5:00	WEXL	1310	Royal Oak, Mich.
	WLAC	1470	Nashville, Tenn.
	WSUI	880	Iowa City, Iowa
5:00-6:00	KWBG	1420	Hutchinson, Kans.
	WHAM	1150	Rochester, N. Y.

February 23rd

2:00-3:00	KOH	1380	Reno, Nevada
	WPHR	880	Petersburg, Va.
	W8XO	700	Cincinnati, Ohio
	XEPN	585	Piedras Negras, Coah.
3:00-4:00	KOMA	1480	Oklahoma City, Okla.
	WAAW	660	Omaha, Neb.
	WBBR	1300	Brooklyn, N. Y.
	WIBM	1370	Jackson, Mich.
	WSYR	570	Syracuse, N. Y.
	WTFI	1450	Athens, Ga.
4:00-5:00	WTRC	1310	Elkhart, Ind.
	WHJB	620	Greensburg, Pa.
	WNEW	1250	Newark, N. J.
	WOI	640	Ames, Iowa
5:00-6:00	GJLS	1310	Yarmouth, N. S.
	CKNX	1200	Wingham, Ont.
	WCSH	940	Portland, Me.

February 24th

2:00-3:00	CFCN	1030	Calgary, Alta.
	KWYO	1370	Sheridan, Wyo.
3:00-4:00	CKOV	630	Kelowna, B. C.
	KVOD	920	Denver, Colo.
	WADC	1320	Akron, Ohio
4:00-5:00	WHA	940	Madison, Wis.
5:00-6:00	WFBC	1300	Greenville, S. C.
	WNBX	1260	Springfield Vt.



Here is the staff of WTRC at Elkhart, Ind. which broadcast a fine special program for the RADEX Mystery DX Contest on February 23rd. From left to right are the Announcer, Mr. Schrock; Chief Engineer Singleton; Asst. Engineer Zellmer; Station Director Baker, and Mrs. Ethel Geiss, the studio pianist.

Readers will note that this schedule coincides with that published in the April issue, with the exception of the elimination of KDYL, previously included in the 2:00-3:00 period on February 24th, and the addition of



This is how the Mystery Program from W8XO was broadcast. At the microphones are Announcers Al Godwin at the left and Durwood Kirby at the right. At the piano are the Devore Sisters, Billie, Marjorie and Ruth, while standing behind them are Rex Griffith, tenor, and Louise Raymond, soprano. Freddie Roehr is at the organ and Production Man Lewis Valentine is cueing the song.

CKOV to the 3:00-4:00 spot on the same date. The former had agreed to come on, but failed to do so; while the latter was not reported among the early entries and we assumed that it, too, had failed to broadcast its program.

And now for the winners:

The first prize, a 23-tube Scott All-Wave receiver, was won by S. R. Lewis, R.F.D. 3, Box 660, Toledo, Ohio. Scoring a total of 765 points, Mr. Lewis gained maximum credit for 38 stations and wound up a fine report with 5 points for KOH. The only station missing was little CKOV and a check on the entries reveals that this station was not reported East of the Mississippi.

Long established as a DXer of outstanding ability, Mr. Lewis wins new laurels through his excellent work in this contest. In another section of this issue, we present an article by Mr. Lewis which was written before the contest and we are of the opinion that it will be of special interest to our readers.

Second prize, a 7-tube Hallcrafters Super-Seven receiver, goes to C. R. Herman, 605 S. Cedar St., Owosso,

Mich. Scoring a total of 720 points with correct reports from 36 participating stations, Mr. Herman is to be congratulated for the fine bit of listening which won so valuable an award.

Tied for third place, with 700 points each, were Arthur E. Foerster, 1926 Hoyt Ave., Indianapolis, Ind., and William Vornkahl, Jr., Westport, Conn. For his prize, Mr. Foerster chose a replacement set of Raytheon tubes, while Mr. Vornkahl will receive a set of National Union tubes.

In fifth place, Mrs. Ella B. Smith, Owosso, Mich., received a total of 695 points and a set of Study and Reference Texts for the National Radio Institute courses.

In order of final standing, the remaining prize winners are:

6. Earl R. Roberts, 2308 Roosevelt Ave., Indianapolis, Ind.—replacement set of Radiotron tubes.
7. W. H. Ronecker, 2630 Burd Ave., St. Louis, Mo.—set of the famous Trimm headphones.
8. Vane A. Jones, 1105 W. 31st St., Indianapolis, Ind.—his choice of any Lynch antenna system.
9. Harry M. Gordon, 317 E. 10th St., Erie, Pa.—Candler Code Course.
10. Bireley Ross, 2426 Alco St., Dallas, Tex.—Set of Radiotron tubes.
11. Hiram A. Crain, 25 St. Leonards Ave., Toronto, Ont.—a Perfect Phone Adapter.
12. H. E. Bash, 913 E. Indiana Ave., Elkhart, Ind., subscription to RADEX.
13. David M. Walton, Box 515, Picton, Ont.—a World Globe.
14. Donald W. Shields, Box 345, Roseville, Ohio—Amateur Radio Call Book Magazine.
15. William Tawzer, Jr., R.F.D. 2, Glenshaw, Pa.—subscription to RADEX.
16. C. M. Zimmerman, 323 Chestnut St., Sunbury, Pa.—subscription to RADEX.

17. Charles Wright, 1309 N. Haugh St., Indianapolis, Ind.—subscription to RADEX.

18. Robert W. Wood, R.F.D. 1, Hillsboro, N. H.—subscription to RADEX.

19. H. J. Arbic, 23 Guelph St., Acton, Ont.—Radio Amateur Call Book Magazine.

20. Ray McCann, Greensboro, Pa.—Radio Amateur Call Book Magazine.

21. Claude Rainbolt, 375 E. Malacca Ave., Akron, Ohio—Radio Amateur Call Book Magazine.

22. R. H. Weaver, 605 W. Market St., York, Pa.—Radio Amateur Call Book Magazine.

23. Kermit Geary, R.F.D. 2, Walnutport, Pa.—Candler Course in Touch Typing.

Tied for last place among the prize winners were Walter J. Budd, St. Michel Dr., Burlington, N. J., and Anthony Sousa, East State Highway,

same city. The final award of a subscription to RADEX will be divided among these two readers, each receiving 5 copies.

Honorable mention goes to Harry M. Emerick, Shanksville, Pa.; James Thurlow, Scottsville, N. Y.; Lavern D. Mitchell, Marquette, Iowa; Floyd Biss, Brittmount, Minn.; Kenneth R. Leu, Rockford, Ill.; Kenneth C. McCartt, Lexington, Ky.; John Grund, Hillsboro, N. H.; Irwin Beitman, Elyria, Ohio; James E. Hathorn, Glenshaw, Pa.; Sanford Morris, Metuchen, N. J.; L. H. Windisch, Toledo, Ohio; Mrs. A. G. Hayslette, Covington, Va.; Max P. Guinn, Lafayette, Ind.; B. F. Smith, Sault Ste. Marie, Ont., Canada; Robert R. Rawstron, Worcester, Mass.; Edward S. Kocsan, Johnstown, Pa.; Harold A. Hayne, Kalamazoo, Mich.; Norval B. Davis, Columbus, Ohio; Forrest D. Poole, Portsmouth, Ohio; Donald Barnes, Grinnell, Iowa; Leighton Haney, Norristown, Pa.; Robert Small, Winona, Minn.; John E. Ott, Sanborn, Iowa; W. H. Applegate, Chicago, Ill.; John L. Clark, Binghamton, N. Y.; and Lloyd J. French, West Hartford, Conn.

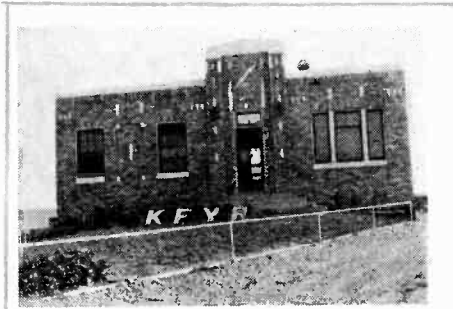
To other contestants, we extend congratulations for fine reports and hopes for better luck next time.

To the stations which took part in the contest, we can only repeat our sincere appreciation for the generous cooperation which made the contest possible, and we trust that the reports received were of some value.

To the following contributors of the valuable awards we add to our own the thanks of the prize winners, and suggest that readers of RADEX show their appreciation by patronizing these firms when in the market for the various products and services represented: E. H. Scott Radio Laboratories, Inc., 4450 Ravenswood Ave., Chicago, Illinois; The Hallcrafters, Inc., 3001 Southport Ave.,



"Smiling Bill" Parker, announcer of WBIG at Greensboro, N. C. conducted the special program transmitted by that station for the RADEX Mystery Contest on Feb. 22. "Smiling Bill" is one of the most popular announcers in the south.



The transmitter building of KFYR, Bismarck, N. Dak., 550 kcs., one of the stations which participated in the RADEX Mystery Contest on February 22nd.

The Contest and Western Listeners

882 Portal Ave.
Oakland, Calif.
Feb. 25, 1936

IN REFERENCE to your contest, I should like to state that there were no Pacific Coast stations on the air with your contest. The closest stations to us were CFCN, Calgary, Alta., and XEPN, Piedras Negras, Coah.

"It is not at all probable that I could have failed to receive any stations on the coast, as our receiver has consistently received the weakest stations all over the West. Moreover, during part of the contest, I received a 100-watt station in Mexico City with good volume.

"It was not a matter of failing to tune for the stations at the right time, as I was constantly trying all parts of the dial. Even by taking into consideration the uncertainty of reception and the hit-or-miss character of the contest, I should have obtained far better results if the schedule had been carried out as announced.

"Our set has all the qualities necessary for good reception — power, little noise, selectivity.

"While we appreciate your efforts in organizing this contest, I do not feel that it was entirely fair to West Coast listeners, unless, of course, many stations failed to carry out their part, in which case you cannot be blamed. In view of all the circumstances, I think some adjustment should be made so that Western listeners might get an even break with listeners in other parts of the country.

"Of course, if you can show proof that other West Coast listeners had satisfactory results in the contest, the foregoing complaint is entirely

Chicago, Illinois; National Radio Institute, 16th & U Streets, Washington, D. C.; RCA Manufacturing Co., Inc., Camden, N. J.; Arthur H. Lynch, Inc., 227 Fulton St., New York City; Trimm Manufacturing Co., 1770 W. Berkau Ave., Chicago, Illinois; The Candler System Co., Box 331, Asheville, N. C.; National Union Radio Corp., 570 Lexington Ave., New York City; Raytheon Production Corp., 30 East 42nd St., New York City; and Radio Amateur Call Book, Inc., 608 South Dearborn St. Chicago, Illinois.

This is to certify that all of the entries in the RADEX Mystery DX Contest have been carefully checked, and that the final standings and the awarding of prizes, as covered in the preceding article, are correct.

Signed,

Harry T. Curnow

County of Summit
State of Ohio

Sworn to before me and subscribed in my presence this 28th day of March 1936.

Frances M. Burgess

Notary Public

My Commission Expires
Aug. 29, 1938

withdrawn, but I do not believe this is possible."

Yours truly,
(signed) Luis Ireland

* * *

Conneaut, Ohio, March 23, 1936
Mr. Luis Ireland,
882 Portal Avenue, Oakland, Calif.
Dear Mr. Ireland:

As your letter of February 25th might be classed as a typical complaint from a West Coast listener, we have delayed reply until we had an opportunity to check all contest results carefully.

We agree that, as the contest turned out, Western listeners were obliged to work under a handicap. It is quite true that a majority of the participating stations were located in the East and Middle West. However, we cannot accept the blame for this condition.

When we started to work on the contest, we planned to have one station from each of the 48 states, the District of Columbia, the Territories of Hawaii and Puerto Rico, and the nine provinces of Canada. This would have brought the total to the anticipated sixty. Unfortunately for you Western listeners, we were unable to secure the cooperation of Pacific Coast broadcasters.

From our first batch of letters, two stations refused our request and several others did not reply. Carrying on with our station-per-state idea, we followed up the letters to the stations which had not replied and attempted to secure substitutes for those which had refused. Later, a third batch of letters was sent promiscuously to Western stations and, finally, a whole broadside of requests for programs was distributed.

While the Pacific Coast stations were refusing or ignoring our requests, the Eastern and Middle Western broadcasters were gradually falling into line, and that was the situation when the contest finally took place. We had done everything

possible to effect an equal distribution of programs.

In an effort to learn which stations had been reported by Western listeners, we segregated all of the reports from the Pacific Coast. We believe that you will be interested to learn that all but six of the 40 participating stations were correctly reported by listeners in the far West. Thus, it would have been *possible* for a Western listener to have scored 680 points, which would have placed him high among the winners and entitled him to a very nice award.

Of these six stations, we admit that interference from Western stations may have prevented reception in many instances. KFAC probably spoiled the WBBR program and KMTR, if on, may have been too strong for WSYR. Also, KOL might have interfered with WFBR. Several stations on 1370 kcys undoubtedly made it impossible to hear WIBM and may even have drowned out KWYO, while KGFJ must have swamped CKNX.

In passing, it is interesting to note that only 21 of the 423 entries originated West of the Rockies. With this in mind, it would seem that any advantages shown by the schedule favored sections where the interest was the greatest.

However, we have learned a great deal from our first attempt to sponsor an event of this nature and you may be sure that any future contests will have a number of changes in structure.

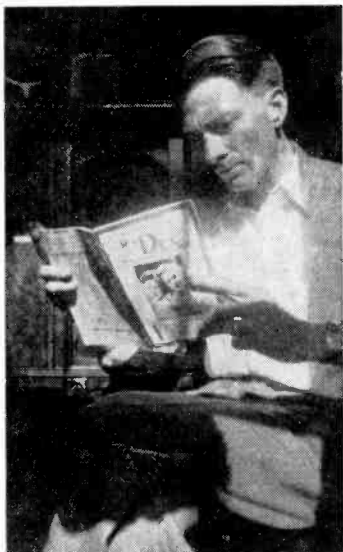
Thanking you for your interest, we are,

Yours sincerely,
RADEX
(signed) Carleton Lord
DX Editor

The station which has been known for so many years as KWKC is changing its call to KCMO. It will remain on 1370 kcys.

Five Years Of DXing

● ● ● By S. R. Lewis*



*Mr. S. R. Lewis, Grand Winner
of the Mystery Contest*

WHEN I concluded my fifth consecutive year of DXing last October, I found that I was embarking upon the new season with an enthusiasm greater than that of my first year of dial twisting.

Five years is a long time to have been crawling out of bed at unearthly hours for a try at listening, and I must admit that my interest has been maintained solely by a gradual improvement in radio receivers, transmitting facilities and co-operation of broadcasters. Foreign as well as domestic stations seem to have many more DXes than in former years.

I prefer to term our present set-up as "organized DXing," since it has been the union of listeners into eight or ten DX clubs which has made current conditions possible. So

today we have organized groups of DXers working for the common good of the listeners at large, and there is the reason for the present popularity of this pastime.

Perhaps some may take exception to my contention that organized DXing is better than the old hit-or-miss style. While I will grant that there was a thrill to the accidental snagging of an unexpected station, I contend that that same pleasure is present today, enhanced by the knowledge that you can count on hearing additional new broadcasters on special programs.

I believe that I have been a DXer at heart ever since the inception of radio. It was fourteen years ago that local newspapers first presented articles on how to build receivers, and I still have my original oatmeal-box set. Graduating to a one-tube set and then to a three-lunger with a loudspeaker and everything, I arrived at the super-powered five-tuber which could pick up KFI after 1:00 A. M., although very weak.

In 1930, a man in my neighborhood, William Bowers, heard me talk about my "remarkable" reception of KFI and invited me over to his home. There, my good opinion of my listening ability was completely deflated, for he had cards and letters of verification from more than 20 West Coast stations. What a thrill for me to see actual proofs of reception, and how I resolved to go and do me likewise!

So, with Mr. Bowers' help, I erected a decent antenna. With RADEX as our guide, we located various stations by frequency on my dial, and I was ready to go.

Immediately, there began a contest between my friend and myself, to see who could verify the most West Coast stations. Gradually, I found that I wasn't hearing enough of these broadcasters to keep me busy, so I set about verifying ev-

everything I heard. I would allot myself a channel and strive to hear everything listed on that frequency. Many was the night I lay on a frequency for hours, waiting patiently for the needed station to break through the interference.

It was at about this time that I first tuned in KDFN, which was broadcasting a program for the NNRC. This was my first knowledge of the existence of DX clubs, and it was indeed a revelation to know that there were so many fellows interested in DX.

After reaching 300 verifications, the bug had bitten me so hard that I wasn't satisfied with hearing American stations alone. I went after every bit of information on the identities and schedules of the foreign stations.

Also, I set a goal of verifying every U. S. station listed in RADEX. In June of 1934, I nearly achieved this goal when I had all but two active stations.

Naturally, the monthly frequency checks have helped no end, and I cannot help but think of the decided break given the younger crop of DXers when stations began these tests on cleared channels. Why, I know of one Toledo DXer who heard and wrote to 30 stations in one night. He ran up a total of 500 veries during his first year of DXing. This is a far cry from my early days, when five new catches in a night and 300 in a year were tops!

For many years I DXed with a Crosley 8-tuber, which netted me my first 800 veries. This set was re-wired for newer and more powerful tubes, and its conglomeration of dials resembled some sort of an infernal machine. There were even adjustments on the neutralizing condensers, which enabled me to peak the receiver on any desired frequency in the broadcast band. With the help of my antenna tuner, I

could boom a distant signal through and get selectivity which was unbelievable on so ancient a horse-and-buggy model.

I am still a firm advocate of the antenna tuner and always use one when tuning for DX on my present receiver, an 11-tube Silver Marshall of 1931 vintage.

Having well over 1000 BCB veries at this writing, I cannot help but say a word about the absolute necessity of using good antenna and ground installations. There is no point in telling what I think is the best, since my preference might well be unsuitable for other locations. Suffice it to say that I have three aerials, and a like number of grounds. I have found that the familiar inverted L antenna, 125 feet



Erlu Neese, one of North Carolina's favorite vocalists, won every singing contest he ever entered and is now a star on WBIG. He took part in the Mystery Contest on February 22nd over WBIG at Greensboro, N. C.

long and 40 feet high, is my best bet for distant reception. I have had no success with the newer type transposed systems on the broadcast band. I find that an aerial of this type works fine on the short waves, but does not function to advantage on BCB signals.

For a ground, I like something in the copper line, buried about six feet in the earth. A radiator, hot water coil or sheet copper, firmly soldered to insulated wire running to the set, works well.

For evening reception, especially on split frequencies where foreign signals are covered up, I like to use my booster loop antenna. It has the pick-up usually absent from ordinary loops, while it retains all the advantages of directional effects.

It is sometimes surprising what can be done in the way of foreign reception in the evenings. Even though a desired station does not operate on a split frequency and is apparently covered up by locals, not a few worth-while catches may be made. Listeners in the northern part of the United States frequently report LS2 through WOAI, LS4 in back of WMAQ, LR4 through WBZ, and many others. My latest bit of this type of reception was hearing Radio El Mundo, LR1, announce very clearly through WTAM.

At the time of writing, my foreign verifications are divided as follows: Canada—92; Cuba—38; Mexico—48; South America—14 stations in 7 countries; Africa—1; Europe—30 stations in 10 countries; Australia—14; New Zealand—3; two each in Alaska, Hawaii, Puerto Rico, and the Dominican Republic; and one each in Costa Rica, Haiti, Bahama Islands, Guatemala, Miquelon Island, and San Salvador.

About 600 of my verifications are in card form, and these are placed in an enormous album, properly

(Continued on page 47)

The Editor Says—

RADIO Station WCSH sends us some of the so-called reports of reception of the Mystery program which they received. It makes one boil just to go over them. Here is one that is all too typical, and on a postcard at that as many others were.

"I heard your program on Sunday morning, February 23, 1936, on 940 kc. with the power of 1000 watts. It come in fair and faided. Pleas send me verification."

All of the postcard reports demanded a verification. What nerve a man has who asks someone to do something for him and throws even the cost of the stamp onto the other fellow. We suggest that those who cannot afford to pay their own postage, give up DX-ing and go to collecting pins or pieces of string. So far as we are concerned we wish every station would make a practice of throwing postcard reports into their waste-basket. It is the postcard addicts who are going to ruin DX.

To the Hard of Hearing

To those whose hearing is defective, radio brings their greatest enjoyment. It also brings a problem. They cannot enjoy the programs unless the volume is turned up to a point which annoys others in the room. To such, headphones are a God-send. We have had many peculiar problems put up to us by the hard of hearing and so far we have been able to solve all of them. With the Perfect Phone Adapter, the deaf may listen to the radio with the speaker operating or with it silent. They may listen at a distance from the set and control the volume of the receiver from their chair. Or they may control only the volume of the phones leaving the volume of the speaker set at a point where it pleases the others. We are particularly anxious to be of service to those who are afflicted and if they will write us fully just what they would like in the way of radio service, we will try to help them.

Floods and Radio

Radio demonstrated the vast service it can render in the recent floods. In every devastated region, broadcasting stations were kept operating without rest for days at a time. When every other means of communication had failed, radio kept relief officials in touch with the needs of particular localities. Undoubtedly radio saved hundreds of lives and brought relief to thousands.

The amateurs are to be especially commended for the great service they rendered. It has come to be taken as a matter of course for the amateurs to leap into the breach at the first sign of trouble. Anyone listening to the amateur bands during the floods must have been impressed with the service they were rendering.

On the other hand, one was also impressed most disagreeably with those amateurs who did not have sense enough to keep off the air with their chatter and leave the channels free for their brethren who were doing relief work. It was terribly annoying to hear the signals of those who were doing important work all mixed up with the "ers" and "ahs" of those who didn't know what to say next.

Station News

WJAS, Pittsburgh, has been authorized to increase its day power to 5,000 watts with 1,000 watts night, effective May 19.

A new station in Redding, Calif., has been authorized and assigned to 1200 kc. with 100 watts, unlimited time. Effective April 21.

Three stations — KFPY, Spokane, WSPD, Toledo, and WFBM, Indianapolis—have been given day increases in power to 5,000 watts.

WIND, Gary, Ind., will be the Chicago metropolitan outlet for the new ABC, the third system headed by Samuel Insull.

KIUN, Pecos, KNEL, Brady, KGKL, San Antonio and KRLH, Midland, have formed the West Texas Broadcasting System.

TRIMM FEATHERWEIGHT HEADSETS



for your radio will greatly increase its DX range. Built to a higher standard than ever before, incorporating the best materials available. Provides a higher signal to noise ratio due to unique construction.

TRIMM RADIO MANUFACTURING CO
1770 W. Berneau Ave., Chicago, Ill.

WHO, Des Moines, seeks an experimental license for the use of 500 kilowatts, putting it on a par with WLW.

WHIO, Dayton, has been authorized to increase its day power to 5,000 watts. It now uses 1,000 watts day and night on 1260 kc.

The NBC has been granted the sole right to broadcast the maiden voyage of the giant new German Zeppelin *Von Hindenburg*.

KSL, Salt Lake City, will broadcast every week from 6:30 a.m. Saturday to 1:00 a.m. Monday, MST.

KEUB is the new call of the 100-watt station recently licensed for the city of Price, Utah. It will operate on 1420 kc.

KWK, St. Louis, will install a new Western Electric 5,000-watt transmitter in Baden which was formerly a part of the bed of the Mississippi River. Over eight miles of copper wire will be buried for a ground. The vertical radiator will rise 400 feet above the ground.

The CBS has bought Station KNX, Los Angeles, for a reported consideration of \$1,250,000.00. It will be used as the Pacific Coast key outlet.

Newspaperman Hearst has bought KTAT, Fort Worth, WACO, Waco, and KOMA, Oklahoma City. He already owns KTSA, San Antonio, and KNOW, Austin.

Our READERS' TROUBLES

••• By B. FRANCIS DASHIELL

I HAVE a Ciscin Air Scout radio. Could I use the parts in this to build a short-wave converter to work with my 7-tube Marconi broadcast set? Will I require any additional parts so that I can make the RADEX converter described in the magazine some years ago? Also, is it possible to use the latest type tubes in the broadcast set? I am using 56s at present in place of the 27s, but find that a 56 will not act as oscillator in this circuit.

We do not think that you can build a short-wave converter from the parts in your "Air Scout" receiver. A short-wave converter, to give pleasing results, must be carefully constructed and must use specified parts so as to get proper capacities and inductances. It is better, at this age, to build a converter from some carefully designed and assembled kit of parts. The RADEX converter was a simple device and met the problem in its day, but improvements now in evidence compel us to advise you to build something more modern and efficient.

There is a very good short-wave converter kit, that can be purchased. It is easily assembled, and it really works without tricky tuning and other adjustments. We have mailed you a copy of a circular describing this converter kit. Just because you have a few spare parts, does not mean that it is easy to assemble a radio set or converter from a diagram showing merely the connections.

We also feel that perhaps it is a good idea to steer clear of an attempt to use the latest types of tubes in your set. Engineers now design their receivers around the tubes, and the layman can not hope to do more than ruin the best efforts of these engineers by trying to use tubes which will not work at their best with the existing parts

and wiring layout. Of course, by the use of adapters, some new tubes can be used, but results are seldom so good that the expense and worry is worth while.

The Arcturus Company has a new line of metal tubes which are counterparts of the more popular glass tubes. They may be used with adapters, and will work just as well as the originals. We suggest, in this case you discuss the change with a local Arcturus dealer or the engineers at the plant, in Newark, N. J.

Economy 8 Has Hum

My problem concerns a bad hum in a home constructed a-c Economy Eight receiver. The output of the 56 a-f driver tube has no hum when checked with telephones, yet removal of the tube does not stop the hum. A resistor across the secondary of the push-pull transformer reduces the hum, but also the volume. Removal of one 59 push-pull tube stops the hum, while removal of the other does not. We recently replaced the power transformer and also the push-pull transformer. What do you believe to be wrong?

If the receiver worked satisfactorily before replacing the transformers, we feel, then, that the hum is being picked up by the audio transformer. Perhaps it is in the magnetic field of some other part. Changing the position of the transformer may clear up the trouble. It would be advisable to have the 59 type tubes carefully tested. If possible, try new ones as a temporary test. Make sure that the grid returns of both tubes are complete to the chassis. Try removing the 0.5 microfarad condenser across the filter choke. Substitute smaller values.

The position of the parts and wiring in the audio circuit of this set is highly

important, for there is always possible the least bit of pick up and regeneration. You should follow the manufacturer's layout to the letter.

Set Cuts Off

My Philco 14L cuts on and off after it has been playing for about an hour. It does this 3 or 4 times and then is all right. When it cuts off it has a mushy or sputtering sound, and moving the volume control or jarring the set makes it worse for a moment. Then the set, when tuned to a station, soon moves up about ten kilocycles on the dial and has to be returned. What is wrong?

From what you state about this set, we think the trouble is isolated in the audio system. Replace all coupling condensers with new ones. Generally, the replacement of all the condensers in the black cases or containers may be required to stop this type of intermittent reception.

The March, 1936, issue of RADEX contained an article on signal creeping in superheterodynes. In your case, however, we suggest that you try a new 6A7 tube. Go over all connections in this circuit with a hot soldering iron. Replace all fixed and trimmer condensers (just the mica dielectric in the condensers). This should stop the trouble of which you complain.

Playing Records

I have a RCA model 281 set and an Orthophonic Victrola that I should like to hook up together so I could play records through the radio loudspeaker. Must I have anything else besides an electrical pickup unit as I understand that the radio has the phonograph oscillator attached on the rear of the set? I see that some pickup units have different impedances. What about this?

If your receiver has a built-in phonograph oscillator such the RCA RK-24, you will need only a good phonograph pickup to work from your present turntable into your phonograph oscillator.



The attractive studios of KWYO at Sheridan, Wyoming are shown here. The RADEX Mystery Program from this station was heard on February 22nd.

We suggest a pick-up having an impedance of about 2500 ohms. Pickups are made with different value of impedance in order that they may match the circuit to which they are to feed. Impedance matching is necessary because maximum power transfers occur when the "source" impedance matches the load impedance. Any pick-up can be matched to any load by means of a matching transformer.

We would not advise the purchase of any expensive "high fidelity" pick-up device. The degree of fidelity will be entirely limited by the audio system of your receiver, which is the controlling factor. Be sure and get an arm which will take the 16-inch records if those are the ones you wish to play. The firm from which you purchase the pick-up will be glad to advise you as to which matching transformer you need, if such is required in your case.

Adjusting Trimmers

The line ballast on my Majestic model 100 broke down. A local service man tuned the set by adjusting the trimmers by inserting a tool through openings in the chassis. This did not help any, and later I found the line ballast bad and replaced it. Now I have good volume, but cannot tune many stations. How can I adjust those trimmers myself now to get the set in good shape?

The trimmer condensers of your model 100 Majestic receiver are located on your condenser gang unit. Tune your receiver to a high frequency station in the vicinity of 1400 kilocycles. Adjust the trimmers with an insulated or wooden tool for maximum signal output.

If the set squeals or whistles when tuning a station, it must be neutralized. This is accomplished by opening the filament circuit of the tube in the stage to be neutralized. Tune in a strong station at the high frequency end of the dial. Adjust the neutralizing condenser of that stage for minimum signal pick-up. Resolder the filament lead and proceed to the next r-f stage. After all of the r-f stages have been neutralized, realignment may be necessary. We believe that a special realignment tool with an offset adapter is required for aligning this set. It will be best to call in an experienced service man to do the work.

Tube Tester

I purchased a Sterling Professional Vacuum Tube Tester, No. R-402. It will handle only 4-prong tubes and is obsolete as far as testing the newer tubes is concerned. Can you give me some information about re-wiring this tester so it will work on the newer tubes? I recently enrolled in one of the larger radio schools and may need this tester in my service practice work.

Unfortunately, there is no practical possibility of bringing this old type tester up to date. The experimental work involved would amount to several times the price of the best tube tester you could buy. Then would come your calibration difficulties, and they will be many. You would also need a large number of good and bad tubes to make actual tests and comparison, and recording your readings for future use. Of course, there are a number of tube adapters that can be purchased that will permit of the testing some of the elements of multi-prong tubes in 4-hole tester sockets.

We think re-wiring is highly impracticable, and if you should discuss this matter with the school giving you the service lessons we feel sure they will give you very little encouragement along similar lines.

Due to the low sensitivity of the meters in this tester, with the possible exception of your milli-ammeter, we doubt their real value for use in modern service work. Low resistance meters place a very heavy drain on radio circuits, causing the voltages to drop below normal and giving you a very misleading reading. Of course, once you learn how to interpret your readings, you can get along fairly well.

Boop-Boop-A-Doop

I have a 1935 Patterson model 85 receiver. When tuned to the low-frequency end of the 5th wave band (15 to 35 mcgs.), it goes "boop-boop-boop-pop" very rapidly, like a motor boat. It does not do this on any other bands except for the low-frequency end of the broadcast band during daylight. I use a 35-foot antenna; is it too short? If I hold my finger on the doublet post and on the antenna post, this popping noise stops and the stations still come in well.

From what you say, oscillations are occurring in your receiver. We suggest that you have the set checked for open by-pass condensers by letting the set "motor-boat," and then shunting the condensers in the set with others of about the same size, known to be in good condition. The test is made one at a time.

As this is an expensive set, it may be that changing your antenna will eliminate all your trouble. The fact that a signal increase is noted by placing your fingers on the binding posts, shows either poor antenna pick-up or an open circuit in the antenna coil of that particular wave band. Check up carefully on this situation, and also look for poor contacts in the wave-band switching contacts. Equal sensitivity on all the wave bands in any set is not always possible, so we think

you should not become unduly alarmed about this.

Installing A-V-C

I have a 1930 TRF Lyric set and wish to apply some sort of automatic volume control. The set works very nicely, but jading comes all too frequently it seems. I would appreciate it if you can devise some practicable system that will apply to this set.

The receiver mentioned by you hardly has sufficient sensitivity to incorporate an automatic volume control. An attempt at such an installation would be a waste of time and you might stand a chance of losing the excellent results the set now gives.

Such work is always an experiment. While it might be worthwhile if you were a service man owning meters and testing apparatus, about the only really successful change-overs that have been accomplished are on extremely powerful and selective "supers."



Mr. Lee Fetcher, studio control engineer, snapped as he sent the W8XO Mystery DX Contest for RADEX over the air waves on Sunday morning, Feb. 23rd. W8XO is the experimental call sign of WLIV at Cincinnati, Ohio, on 700 kcs.

If you wish to have the pleasure of building an a-v-c into a set, why not try building a modern set from a kit. For instance, the Thor Radio Company, 167 Greenwich Street, New York, N. Y., has some excellent kits incorporating a-v-c. There are other kits, too, that can be selected from advertisements. As you reside in another country, we believe that you could get a kit of parts through Customs at far less expense than an assembled receiver. Modern kits are easily assembled, for most of the work is factory made, and every step of the work is laid out in the instructions.

S-W Converter

I have a Kolster K-20 receiver, and desire to use a Stewart-Warner 301-A short-wave converter with this set. I have been told, however, that the highest voltage obtainable from the Kolster is only 170 volts, whereas the converter requires 250 volts on the plate. Can you help me find a way to get the necessary plate potential for the converter?

We think it is very likely that the converter may work quite well with as little as 170 volts on the plate. There is a resistor in the plate supply lead of the converter having a value of 25,000 ohms. Decrease this value to about 10,000 ohms, and 170 volts should work nicely. A higher voltage can be obtained by connecting the B plus lead of the converter to the junction of the filter chokes. If you are in doubt as to the proper connections, call in a service man. You might try an eighty-volt B battery in series with the 170-volt lead from the receiver to the 250-volt contact on the converter. This might not be so satisfactory in the long run.

New Condenser

I have a four-tube Majestic "International" radio receiver. The condenser was taken out and was lost. I have no way of finding out the number and type of condenser required for the radio. Can you tell me the size and style number so I can procure one?

Unfortunately, we have no information that is available about the Majestic "International" receiver. These sets are made, so we are told, by different circuit diagrams, and not all are similar. The size of the set, however, limits the design possibilities, and an 8 mfd. electrolytic filter condenser should prove suitable for replacement in any of these three different makes of radio sets.

But you have not stated which condenser is missing. If the condenser is used to couple the detector tube to the power tube, use a .02 mfd. tubular replacement. Then there are from ten to fifteen other bypass and coupling condensers in any small receiver so we suggest you see a service man about this. The same applies to a missing tuning condenser, if such is the case.

Static Eliminator

Some time ago I read in a literary magazine that a new device had been made that would cut down man-made interference and static in receivers. Do you know about this new invention, and where may it be purchased and how much?

We have not had an opportunity to witness a demonstration of the static eliminator to which you refer. It has been devised by a well-known radio man who edits much radio material of a technical nature. The device is an extremely quick-acting automatic volume control. A burst of static or man-made interference, if greater in intensity than the received signal, will be sufficiently strong to operate the eliminator, causing the amplification of the receiver to drop for the duration of the interfering noise. This invention may cause a bit of distortion with weak moments appearing during the program, all of which is better than the noise that otherwise would occur. It is a step in the right direction, for we all hope that some day static will be a thing of the past, and the device is worthy of the fine technician who invented it. We suggest that you

communicate with QST Magazine, Hartford, Conn., for information as to how the device is used in existing sets.

Fading

I have been disappointed in my new receiver because of the fact that it does not prevent fading. I thought that the modern sets, with their efficient automatic volume controls, held the signal at the proper level and fading was more or less a thing of the past. Can I do anything about it?

You must not expect the impossible of any automatic volume control. If a signal entirely fades out, no amount of a-v-c action will bring the signal back. An a-v-c only increases the gain of a set when the signal strength goes down close to the vanishing point, but when it vanishes there no longer is any signal to amplify, and only just so much sensitivity is practical in a set. You have a good receiver, but fading, fluttering and distortion on distant stations will occur in any set, and they cannot be overcome by present methods of design. So far, radio receivers can reproduce only what is fed to them from their antennas, and we certainly have not reached radio's millennium!

Crosley 42-S

I wish to connect a phonograph pick-up to my Crosley 42-S receiver. I expect to use a Bosch Recreator unit. I did try to connect it by means of an adapter to one of the 27 tubes, but there was no result at all. On the back of my Crosley are three terminals, one marked A, one marked P and the other marked G. What is the purpose of P? If I can not use the Bosch pick-up with the Crosley can it be used with a Philco 616-B?

You have connected the pick-up to the first a-f stage, and not much gain is available at that point. You can connect the pick-up in the grid return of the detector tube, a type 27, which is placed rather by itself toward the center of the chassis.

But we suggest you connect the pick-up to the contacts made for that pur-

(Continued on page 46)

Around The ALL-WAVE Dial

● ● ● By PAGE TAYLOR

FIFTY-FIVE news broadcasts are shortwaved to the world every twenty-four hours by the radio stations of four major European countries, England, Germany, France and Italy, according to information compiled by the Short Wave Institute of America at Washington. England supplies only seven of these daily broadcasts, but it sends each of them out on two or three different frequencies so all the world can hear. France contributes eighteen, Germany sixteen and Italy, fourteen of these broadcasts.

The British stations at Daventry use the English language exclusively; the first broadcast is heard at 4 o'clock in the morning, EST, with subsequent broadcasts at 0800, 1130, 1300, 1645, 1945 and 2245, EST.

The French shortwave stations cover eighteen hours out of the twenty-four, and a large share of their time is devoted to news broadcasts in various languages. English is heard at 0445, 0700, 1430, 2000 and 2320, EST. Besides English, the French stations use French,

German, Spanish, Arabic, Italian and Portuguese.

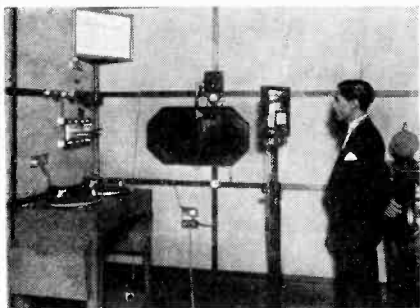
Germany sends out six daily broadcasts in English, at 0430, 0700, 0900, 1400, 1600 and 2015. Other languages used on the balance of their news periods are German, French, Spanish, Dutch and Portuguese.

Italy so far holds the record for the number of languages used, fourteen, as follows: Italian, English, French, German, Spanish, Portuguese, Hungarian, Croatian, Bulgarian, Albanian, Arabic, Greek, Roumanian and Esperanto. English is used at 1045, 1330 and 1800, EST.

Mum's The Word

A station in Goderich, Ontario, has aroused considerable comment during the past five months. Last November we were requested to keep this information to ourselves but as it seems to have been passed along to everyone else in the country, we may as well publish a letter Albert Steinmetz, 411 W. Girard Ave., Philadelphia, Pa. received from Goderich.

"Many thanks for your good letter and this will verify your reception of the 15 watt experimental station you heard operating in 6030 kcs. at 5:59 am, EST. We are experimenting with this low power station to determine the radius that a club station of 50-100 watts would cover. The programs are entirely for DXers. It is unlicensed and hence no call sign is used and for this same reason kindly do not give it any publicity! This station has been reported on the other side of the Atlantic." This is something like the Kingfish trying to keep a secret after telling it to the Battle Axe. Goderich wants everyone to know about its



Shortwave station PRA⁸ is not widely heard in the United States but it is expected that with their increase in power to 5 kw. this summer it will be well received. PRA⁸ transmits on 6040 kcs. and is owned by the Radio Club do Pernambuco, Brazil.

radio station except the Radio Commission.

Mr. Steinmetz has been sending reports to the Hungarian stations regularly every week and has HAT4 verified twenty times as a reward. He has an interesting letter from the station which is partly quoted here: "The reason we do not have any 'propoganda' at the present time is that our programs at the present time are only experimental. We do not have special overseas programs and the allotted one hour each week is not enough. However, we shall soon build directional antennae and reception will be much better." It is assumed that the directional antennae will be directed towards the United States.

The new shortwaver HIT at Trujillo City, Dominican Republic gives this schedule on its QSL card but does not state the standard time used. Most likely it is Dominican Time, twenty minutes faster than Eastern Standard. The hours: 1230-1400 and 1800 to 2100 daily except Sunday, with special DX programs on Saturdays from 2300 to 0100. HIT works on 1050 and 6630 kcs. with 200 watts power on the short-waves. Reports should be addressed to Sr. F. A. Sanabia, Apartado 1105.

Radio Bangkok Reappears

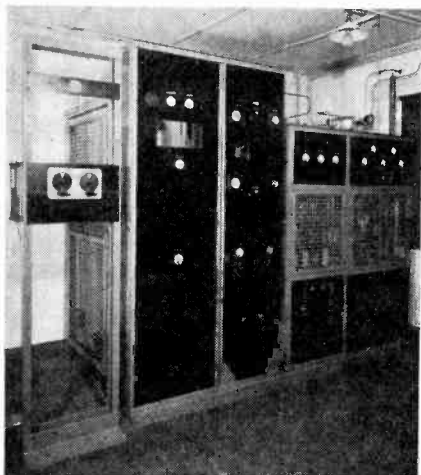
Sr. Miguel Rivera, formerly of Peru but now residing in Hong Kong, sends information which should be highly interesting. He reports Radio Bangkok, HS8PJ, an experimental broadcasting station on 27.83 meters, but they announced they may soon change their wavelength to 29.5 meters (10.165 megs.). The aerial power is 10 kilowatts and the transmission schedule runs from 1300 to 1500 GMT, daily; (8 to 10 am EST). "XGOX, Nanking, is now transmitting in the evenings, but come in with interference, and their power seems to be quite low compared with HS8PJ," continues Sr. Rivera.

Additional information on this telephony station in Nairobi, Kenya Colony, was first reported in RADEX in April on about 15.2 meters. We understand from Mr. Pybus of Manchester, England, that VQG is on 19.630 megs. and is heard daily calling London. One listener in the United States reports hearing it.

A new shortwave broadcasting station was inaugurated in La Ceiba, Honduras, on March 1. It uses the call letters HRD, is of 250 watts power and operates on a frequency of 6235 kcs., according to the American Consul located in that city. One or two of our readers give the call sign as HRV. This station is truly an international one, as the transmitter is a Collins, manufactured in Iowa; one of the owners is Dr. Tulio Castaneda of Guatemala and the other is Sr. Emilio A. Crespo of Honduras. Sr. Tito del Morales of Chile is the program director.

Another HJ1ABC

The call sign HJ1ABC is quite popular in Colombia. A third station is now reported using it. Ralph Gozen, 60 Warburton Ave., Yonkers, N. Y., states it is located in Cartagena and works on about 9600 kcs. at 2200 EST. Other information submitted by this tireless tuner is most timely. XDA at Chapultepec, Mexico, works irregularly on 6535 kcs. Station HI4V at Trujillo City, Dominican Republic is on 6480 kcs., and HI3C at La Romana, D. R. transmits on 6900 nearly every night until about 1930 EST. Another new Dominican is HIG at Trujillo, on 6290 kcs. early in the evenings. HRV, La Ceiba, Honduras, "La Voz de Atlantico," on 6240 kcs. tests often and is heard with a very good signal. Three Javanese stations, PLV, PLP and PMN broadcast simultaneously on Sunday mornings from 5:30 to 10 am, EST., and the Hong Kong station ZBW was heard on a Sunday morning at 8750 kcs.



A view of experimental transmitter 3LR operated by the Australian National Broadcasting Service. 3LR works on 9580 kcs. daily except Sunday from 4 until 8 a.m., EST.

Greetings from Germany

Many American listeners will be glad to hear that DJD, 11,770 meg., has returned to the air with the North American programs, but we are all sorry to know that the best of all German stations, DJB, had to be discontinued. "DJD is usually considered as the star performer during the summer season," write the operators, "whereas, during the winter time DJC steps in as a worthy successor, *provided* our broadcasting friends in South and Central America are kind enough to stick to their proper frequencies."

The German shortwave station has inaugurated a novel policy; this is a special program schedule in which every type of broadcast has its special, fixed day. Thus, listeners can always tune in concerts by leading artists on Mondays; operatic transmissions and military music on Tuesdays; chamber music and vaudeville on Wednesdays; radio plays and sketches on Thursdays; symphonic concerts on Fridays; operettas, musical comedies and dance music on Saturdays, and on Sundays, concerts, light music and poetry.

Two of the highlights of the Zee-son programs should be of interest to all readers. One of these is the Letter Box Program in which personal greetings are sent to listeners. This feature proved so popular that the station decided to make it a daily broadcast, fixing the time from 4:55 to 5:00 pm, EST, for these messages. It is hoped that listeners will continue to provide sufficient material for these daily five minutes; this is a fine opportunity for any radio fan to hear his name announced from Berlin.

Several months ago a new type of broadcast was undertaken under the name of "Fun from Overseas," a program which gives fans a chance to write their own radio continuity. Listeners the world over are invited to send in short stories about strange happenings in their daily lives and work which could be considered of general interest to other listeners to the station. The best of the stories are broadcast and the writers receive a prize consisting of a book on broadcasting in Germany, and a beautifully illustrated book of the country. Strangely, no response has been received from the United States and Canada, but as the competition is being continued, amateur short story writers on this continent still have a chance to participate.

The Elusive Javanese

It is quite a task to keep up with the many low powered Javanese stations, but some information recently received from Sourabaya, although not in agreement with other advices, may prove helpful. It seems that programs heard on the NIROM Network originate sometimes in Batavia and sometimes in Sourabaya. The Batavia station is YDA, which has two frequency assignments, and the Sourabaya station is YDB. Last fall the YDA programs were radiated for a while over PLP on 11,000 meg., adding further to the confusion, but

row YDA works on 3040 and 6040 kcs. YDB worked formerly on 4470 kcs. but moved up to 9650 a few months ago. The NIROM programs are relayed on Sundays only over two commercial phone stations, PLP on 11 megs. and PMN on 10,260 megs. All these stations are received well.

Mr. L. W. Bewick, of Radio Station CHSJ, tells us that shortwave station VE9BJ is now owned by the New Brunswick Broadcasting Co., Ltd., with offices in the Admiral Beatty Hotel, St. John, New Brunswick. VE9BJ works on 6090 kcs. with 50 watts power, relaying CHSJ irregularly.

HJU gradually shifts its frequency, having moved from 9060 to 9510 kcs. in easy stages during the past two months. Richard Bradley, 107 Beechdale Road, Baltimore, Md., heard the station announce they would remain on 9510 and that their schedule was Monday, Wednesday and Friday from noon to 1400 and from 2000 to 2300, EST. Richard uses a 23-tube Scott and says it was necessary to advance the volume only $\frac{1}{8}$ th of its capacity to receive HJU with good volume.

"HRN at Tegucigalpa, Honduras, is coming in excellently now," postcards Don Gross, Box 6052, W. Asheville, N. C. "Their Sunday night broadcasts should not be missed by any shortwaver. HH3W at Port-au-Prince is very good between 1900 and 2015, EST on 9590 kcs.; announcements are in French and the musical programs are enjoyable. Two other good catches are TIGPH, 5820, at San Jose, C. R., and TI5HH, 5480 kcs. at San Ramon, Costa Rica."

New Skyways Stations

Lisle Hodnett, 72 John St., Ottawa, Ont., comes through with more interesting Canadian station news. "The call for the Toronto police is, I believe, VYQ instead of CYQ," he tells us. "The Ottawa police department operates CZ5O on about 2.35

megs. Some of the Dominion Skyways stations are CZ5K somewhere in Quebec; CZ5L, Mud Lake, P. Q.; CZ5M, Chibougamon, P. Q.; and CYS, Shoemaker, Ont. Another new station in the Dominican Republic is HIT, 6630 kcs., in Trujillo City, formerly Santo Domingo City."

No further reports have been received on reception of the apex stations, although it seems we have quite a number of readers who own sets capable of tuning below 10 meters or above 30 megacycles. The schedule of one of these stations, W8XWJ, is sent to us by Ernst Dukatz, 4732 Williams, Detroit, Mich. W8XWJ, 31.6 megs. relays the Detroit News station WWJ from 6:15 am to 12:30 pm; from 2 to 5 pm and from 7 to 10 pm, EST. It was not stated but we believe this is a daily schedule.

Some schedules of a few of the other apex stations are given for the benefit of tuners having ultra short-wave equipment. W8XKA (KDKA) works on 55.5 megs. daily from 1500 to 2300, EST, and W8XAI relays WHAM of Rochester, N. Y. on 31.6 megs. from 0730 to 2400 EST daily. This station is justly proud of a recent report received from a listener in Panama.

Anthony Tarr, 909 W. Lee St., Seattle, Wash., has enjoyed reception from five of the six continents. "I have heard LRX on their frequency of 9.580 megs," he writes. "This Buenos Aires station was heard testing with a fairly good signal between 2200 and 2300, EST. At about the same time the new CB960, Santiago de Chile on 9600 megs. is often heard. HJU, Buenaventura, Colombia was first heard on 9490 kcs. but later they moved 10 kcs. to 9500 because of cw QRM. W9XAA is using their 11830 kcs. frequency almost exclusively now, being on the air daily until midnight. Just after daybreak here the Germans DJB and DJE come through.

GSB is the best of the Daventry stations now, producing an R9 signal on their evening transmissions. The other Europeans, Spain and Italy, do not come in so well. The Pontoise stations have now been given call letters, as follows: TPA2, 25,243 megs.; TPA3, 11.885 megs. and TPA4, 11.713 megs.

"The best South American here is HJN, which has moved to 5950 kcs. I have just logged my 100th s.w. station and now have 28 countries represented on all continents except Africa." Mr. Tarr wishes to exchange SWL cards.

S. W. for Reliability

"As reception on the broadcast band has been so bad during the past few months I have turned to the shortwaves for most of my DXing," explains Ray Corbett, 619—12th St., Sacramento, Calif. "The British stations seem to be the best, especially in the mornings, although the Italian on 25 meters is very good. I believe that before long I will succumb to the shortwaves; one doesn't need to stay up all night to hear DX."

"I have been reading RADEX for a year and a half now, and have not yet seen a strictly CW DXer mentioned," complains John Kofron, Jr., 3171 Euclid Hts. Blvd., Cleveland Heights, Ohio. "I know that 999 out of every 1000 DXers consider code as a mere bit of annoying static, but to me it carries a great deal more interest than 'phone DX. For this reason I would be very glad to get in touch with another DXer who is interested in code. My receiver is a new 7-tube Sky rider."

Dale Smith, Eugene, Oregon, says he believes a log of 1000 stations in less than three months on a five tube set is pretty good. "I have heard 40 of the states on the broadcast band and the same number of states on the 75-meter amateur band," Mr. Smith calculates. "Of the total more than



One of radio's most novel studios. This view of Studio "A" of WIEM at Jackson, Mich., is taken from the street outside. The entire front and side of the studio is open to public view through 16-foot high windows outlined in neon tubing. Two hundred persons can be seated inside and crowds numbering up to 600 have witnessed broadcasts from outside.

half are amateurs, 107 are police and 13 airways stations. My best distance on 75-meters is YV12RM, Maracaibo, Venezuela."

"The Japanese stations are coming in well out here," avers Wm. Hamilton, 520 Benicia Road, Vallejo, Calif. "On Sunday evening at 9:40 pm PST (12:40 am EST) I tuned in Nazaki on 10.660 megs. They were giving a talk in Japanese but signed off in excellent English, then the National Anthem. This reception was on a Stromberg-Carlson table set and a 50-foot antenna." Mr. Hamilton is a firm believer in a good ground and believes his good success is due more, or at least as much to having his set well-grounded as it is to his efficient aerial system.

Mr. L. D. Brewer of 2246 N. 9th St., Phoenix, Ariz., has had considerable experience erecting aerials. "During the past year I have erected 21 aerials of various sizes and kinds for my Philco 16X. The Philco 60-foot doublet seems to be the best for shortwave work but a 100-foot flat-top proved the best for broadcast band. I use 40-foot masts running N to S and NW to SE. During the

(Continued on page 47)

A Tuned Antenna System

SINCE the coming of short waves and all-wave receivers, noise-reducing antennas have found widespread use. In the days of the broadcast receiver local static noises were not an important factor, and any type of antenna was fairly satisfactory. But now that every form of electrical device broadcasts interferences that are picked up on the short waves, it is essential that efficient noise-eliminating antennas be used. An antenna that will pick up a maximum of energy on all signals will tend to over-ride interfering noises and make possible the reception of weaker stations.

The standard types of noise-reducing doublet antennas follow dimensions that approximately resonate in the short-wave bands. Simple tuning of the antenna is obtained by giving the flat top a length which causes it to resonate at about 49 meters, or 6,000 kilocycles, and again on the second harmonic, 25 meters, or 12,000 kilocycles. Certain combinations, such as double doublets, permit of fundamental resonance on additional wave lengths or harmonics, and thus a fixed degree of antenna tuning automatically exists.

Adjustable Antennas

As we cannot have an elastic antenna, which changes length as we rotate the dial to different waves, we cannot provide a length of wire which resonates *exactly* to every signal being received. So the next best thing is to tune the antenna by hand. If we do this we have an antenna that responds to *all* signals and gives a maximum of sensitivity and volume. Some people object to this additional tuning, so antenna manufacturers have leaned back-

wards from this essential feature.

Philco recently made a concession to the tuned antenna principle. They installed a separate set of coils, tuned to the different wave bands covered by the receiver, and which are automatically cut in or out by the band changing switch. This feature eliminates the necessity of manual tuning; it is an advantage, but it still prevents tuning to each individual signal in the wave band being used.

Maximum efficiency of any antenna system calls for *exact* resonance to every signal. This can be obtained only by tuning, which means separate adjustments must be made. But to DX listeners and others interested in obtaining the fullest measure of signal sensitivity and selectivity, as well as volume, the simple additional operation of tuning the antenna is a work of love rather than just another nuisance.

The R9 Tuned Antenna

The new Silver Corporation's R9 tuned antenna is said to give from three to six times the volume obtainable from an ordinary doublet antenna. This audible increase in volume on the short waves results in the reception of signals so weak as to be unheard on older antenna systems. This sensitivity, coupled with the improved noise rejecting system and the ability to tune every signal between 9 and 200 meters, should prove of considerable interest to DX listeners.

The R9 antenna consists of a doublet 50 feet long—25 feet to each side—and 131 feet of twisted noise-rejecting transmission line or leadin, and a tuner and switch box. This system comes as a complete kit, all connections soldered, and

wire cut to length. To erect the antenna, it is merely necessary to attach hoisting lines to the two insulators at the ends of the 50 foot flat top, uncoil the transmission line and raise the antenna tight between its supports.

Where To Place

The higher it is hoisted the better, and the farther it is away from electrical apparatus and automobile highways, the better also. The long leadin is carried down to the radio set. It comes in an established length. All of it must be used, and if any is left over it can be coiled behind the receiver. If a longer leadin is required, a length of 78 feet must be added to the original leadin.

The small tuner box contains three balanced coupling transformers, the antenna tuning condenser, and a five-position selector switch. Three positions of the switch select the three transformers for different wave bands, the fourth feeds the transmission line directly through the tuning condenser to the receiver, and the fifth cuts off one half of the antenna top and connects it for ordinary broadcast reception.

How To Operate

This switching arrangement provides any desired type of antenna for broadcast or short-wave reception, from a fully tuned antenna to the usual noise-reducing doublet, or a simple "L" type antenna. As a broadcast reception antenna need not be tuned, the tuning is confined to the three short-wave bands, covering from 9 to 200 meters.

In operation, the two tuner leads are connected to the antenna doublet binding posts of any all-wave receiver. It is necessary initially to select that dial setting which, in conjunction with one of the four switch positions, gives greatest volume on any one of the short-wave bands.



Benny Goodman with his celebrated "swing" orchestra, and Helen Ward, songstress, are heard each Tuesday over the new Elgin Swing Revue Program at 10 p.m., EST. Benny Goodman has risen to international fame in less than eighteen months, and is today an outstanding exponent of the new "swing" music cycle.

Once the readings are noted down for these bands, it is only necessary to reset the dial for maximum results on the band.

It is not absolutely necessary to reset the tuner dial for each different station received, but to set the tuner and switch knobs for the loudest signals or greatest "R" deflection, is this form of meter is used, on the 16, 19, 25, 31 or 49 meter bands. In extreme DX work, individual station tuning will improve the volume a little, but it will be found that in most cases one initial setting for the desired band is all that need be done by hand. This makes the use of a tuned antenna system a very simple matter.

The new St. Paul, Minn., station on 1370 kcs. is to be known as WMIN. Edward Hoffman is the licensee.

Turning Our READERS' DIALS

● ● ● With the DX Editor

ALTHOUGH the history of trans-Atlantic reception of the medium waves dates back to the Stone Age of broadcasting, it has only been during the past three or four years that listeners have enjoyed any degree of success in this direction. And even today, most of us are unable to boast of truly reliable reception of European signals during the proper season.

While searching for an "Open Sesame" to regular R7-8 signals from across the Atlantic, not a few DXers have considered the possibilities of tuning for the long wave stations. On the surface, it would appear that everything would be in favor of such reception.

However, despite the appearance of new receivers which cover the 1000 to 2000 meter bands, reports of European reception on the long waves are few and far between. The first in many a moon comes from Robert D. Munn, Box 667, St. John's, Nfd.

"When I bought my RCA Victor Model 263," he writes, "my radio dealers told me not to expect too much from the X band, and that this band would only be good when the standard broadcast band was exceptionally fine. Actually, my experience with Droitwich, England, during the past Fall and Winter has shown that it comes in more consistently and with better volume than the English stations on the medium waves.

"For instance, any evening I have been home to tea—and I have been home for that meal most of the time this Fall and Winter—I can switch to Droitwich at six o'clock, Newfoundland time, for the news bulletins. In fact, I have been surprised at the consistency with which this station has been coming in."

Perhaps other readers have had suc-

cess in tuning foreign long wave stations. We are sure that accounts of such reception would be of interest to DXers.

While Atlantic Coast fans have an edge when it comes to European reception, W. A. Seaman casts a vote for his home town, Houghton, Mich., as "one of the best geographical locations on the continent for DXing." Checking over a diagram which he submitted, we find that CKPR (100 miles), WCCO (300 miles), WMAQ and the other Chicago stations (400 miles), WTMJ (300 miles), and WLW (600 miles) can be heard with R7-8 volume every noon. Usual mid-day reception brings in KOA (900 miles), WSM (785 miles) and WOR (800 miles) at about R5-6, while late night DX shows KGU (4200 miles), LRS (6000 miles), and VE9EK (1100 miles), among others, audible at R5 volume.

Checking Winter Logs

"DXing has been pretty slack here," admits Clarence Burnham, 147 E. Main St., Gloucester, Mass. "My log stands at about 675, with 450 verified. The best veries include TGW, HHK, WKAQ, LS2, YV1RC, Poste Parisien, North National, Bordeaux, I1RO, EAJ1, and 4RK, while reports are out to LR3, LR5, LR6, PRB9 and Radio Normandie. Argentine stations certainly fool a fellow if he isn't careful. Thought I had a Cuban at 10:00 p.m. one night and I was certainly dumbfounded to find that it was LR3."

"The other evening I brought home a Super Sky Rider 9 from the shop where I work," offers Warren E. Winkley, Hughson, Cal. "I hitched her up and galloped all over the world. From 11:00 p.m. until 4:30 a.m. I picked up 25 Japs, nine Aussies, three Zedders and four Chinese

stations, all of which came in well enough to hear with good volume."

"DX conditions have been pretty ghastly at my domicile," laments R. T. Coales, 54 Chelsea Rd., Southsea, England. "I suppose the sun spots are at the bottom of it and I am convinced that we will not have peak conditions until the 1938 sun-spot maximum is long past. Reception from North America has been hit harder than that from South America. It is rare to hear even the big stations on the East Coast, let alone the smaller transmitters. I've hardly been able to get a whisper out of WLW, yet he used to put in an R9 wallop when DX was really DX! Stations such as WABC, WOR, WBZ, WTIC, WBT, and WCAU put in fairly good signals once in a blue moon, but that's all."

"I have been DXing for six years," recalls Lawrence Lundberg, 1020

Lowry Ave. N., Minneapolis, Minn., "and have logged 632 stations, of which 335 are verified. My receiver is not very good for DX work, but I am quite proud of a few veries such as 10BP, CRCS, XES, XEU, WKAQ, KFPM, WPHR and a number of 100-watters on both coasts. WPHR sent me a gold fountain pen and pencil set for the most distant report on one of their test programs. I haven't heard any foreigners yet, but I am buying a new receiver this summer and have hopes for next season."

"My log stands at 708 stations," informs John C. Burke, 136 S. Kensington Pl., Springfield, Ohio, "and this includes hams, short wave and BCB stations. Although I have put off verifying except on a few better catches, I do have confirmations from 3ME, 3LR, 3WW, HIX and Zeesen stations. Would like to correspond with some one in Canada, on the West Coast or in Central America."

Radio Friendships

One of the nicer rewards of DXing is the opportunity to "meet" fellow enthusiasts in distant cities. Many fine friendships have resulted from the exchange of letters and we are only too glad to publish the following note from a shut-in.

"I would like to ask a favor of you," pens Floyd M. Murphy, 615 W. Franklin St., Palestine, Ill. "I am confined to my bed and have been for almost two years. Would like to have some pen pals. Do you think you could help me get some—especially from foreign countries? I will answer all letters, trade QSL cards and photos."

"I like to correspond with foreign listeners," greets Gordon Gliddon, George St., Pleasant Point, South Canterbury, Timaru, New Zealand, "and I would esteem it a great favor if you would remind your readers that I would like to hear from any DXer in the world. I am also a keen



Albert Steinmetz, 411 W. Girard Ave., Philadelphia, Pa. was one of the first short-wavers in this country to pick up the transmissions of the Budapest stations. The Hungarian Coat-of-Arms is prominently displayed here along with the pick of his QSL cards.

stamp collector, so you might say that I would like to receive stamps and will be sure to exchange ZL stamps by return mail."

There you are, boys! Consider yourselves properly introduced, and we'll see who writes the first letter.

"I have wondered for years why stations do not spell out their call letters in code as a means of identification," wonders E. E. Ely, R.F.D. 1, Box 9, Astoria, Ore. "This would carry and identify a station much farther than its modulations could be heard. The first, or last, note of the signal could take the place of an hourly time signal, thus providing a double service to listeners everywhere."

"The New Zealand DX Radio Association recently conducted a new competition to determine the Champion All-Around DXer of N. Z.," advises an unsigned member of that fine organization. "The winner was H. J. Looker, 110 Harbour Terrace, Dunedin, who scored a total of 592 points. Some very good confirmations were entered, including VK3LH (6 watts), VK4EA (6 watts), VK51V (3 watts), XHHG (100 watts), CKWX (100 watts), KDB, KGKB, KGCX and KGFK. Other veries were noted from the East, Europe and New Zealand."

"CKCO, Ottawa, has a permit to increase its power to 1000 watts," submits Hiram A. Crain, Jr., 25 St. Leonards Ave., Toronto, Ont., "but they are not likely to make the boost for a while. CKCO is really the oldest station in Canada. It was once called OA and was run by the government. Their initial communication to Montreal was the first radio-phone message heard over 100 miles. This was at about the same time that KDKA started up."

"On February 2nd, I picked up two new Cubans which are not listed in RADEX," reports William Tawzer, Jr., Glenshaw, Pa. "The first was

CMGH on 790, and they came in with good signal strength and no fading. The other, CMJX (not positive about the last two letters) was heard on 1190. They were strong at times, but faded badly. They had a lady announcer."

No Foreigners

"I have noticed in the March issue that many DXers have heard European and Australian stations on medium waves," remarks Robert Sheldard, R.F.D. 5, Brantford, Ont. "How is it done? I have a GE Model K52 and have never heard them. I have tuned as far West as KPO, KFI, KFAC, W6XAI and KSL, as far South as XEPN and XEW, and as far East as Nova Scotia. Do the other DXers have powerful sets of 18 to 24 tubes, or what? I will not say that such reception is impossible, but I do say that there is some catch which we new DXers don't know about."

About the only catch we know of is the vital knowledge of how, when and where to tune. Of course, a sensitive receiver and an efficient aerial and ground system are absolutely necessary, but satisfactory results are obtained only when a listener knows how to make the most of his equipment. A fairly comprehensive report on tuning foreign stations was given in our October, 1935, issue, and we plan to revise this information for presentation early next fall.

In this connection, we would like to hear from readers in all parts of the country in regard to their foreign reception. We will condense and tabulate all tips on tuning so that listeners in every section will have an idea of how to tune for foreigners.

From Robert Homsher, 3440 Flora Ave., Kansas City, Mo., comes a reminder of the necessity of enclosing postage when asking stations for verifications or QSL cards. He quotes a letter from D. Reginald Tibbets, op-

erator of W6ITH, Berkeley, Cal., who says:

"You may wonder at this letter in reply to your card. I am just writing to thank you for the manner in which your request for the QSL card was sent, the complete report, and the enclosure of the stamp. I receive about 20 SWL cards and letters a day. All of them are favored with my QSL card, but I do know that most amateur stations will pay no attention to a SWL card unless a stamp is enclosed. They would rather spend the postage money on equipment."

Whether listeners report to broadcast band stations, commercial short wave transmitters or the hams, return postage is always a vital factor, not to say a courtesy. Readers must remember that station operators are making a very definite concession when they send out verifications or acknowledgements.

Station Briefs

"DXers who have been unable to tune WACO in the past are going to get a break," promises R. B. Wolfe, Waco, Texas. "The station is going to build a radiation tower on top of the Amicable Building, which houses their studios and transmitter. The building is 22 stories high, so a tower on top of that should push their signals plenty far."

"The owner of CMQ, Miguel Gabriel, has gone to the United States to purchase a Western Electric short wave transmitter with 1 KW output," offers Alec Kinghorn, Box 2488, Havana, Cuba.

"Station WOCL has just been sold to John C. Drummond, of Utica," notes Edward Shirley, 802 N. Main St., Jamestown, N. Y., "and he plans to rebuild the station and make it a CBS outlet."

"CJRC has been heard testing their new 1 KW transmitter on 630 kcs," prefaces Anthony C. Tarr, Fort Lewis, Wash. "By finally logging KYW. I



Mildred Monson, the featured soprano of the Kellogg Singers has been engaged to entertain smart audiences at the Rainbow Room atop the RCA Building in Radio City. The Kellogg Program is broadcast each Friday at 8:30 p.m. EST. on the NBC-Blue Network.

at last have a station on every channel. The March frequency checks came through very well and I heard 95 per cent of those scheduled for the first three nights. Recent foreign veries which have come in are 2CO, 2GZ, 2UE, 3GI and JOCK1. The Aussies and Japs are beginning to come through very nicely, with 3YA and 4YA the best of the bunch. 1YA is not so good. I have noticed that some of the lower power stations Down Under have nearly as much sock as the 10,000 watters."

"I have often wondered what DXers consider an ideal verie," wonders Morton D. Meehan, 563 Adams Ave., Elizabeth, N. J. "I, for one, prefer a card in several colors, with the call letters in large, bold-face type. I know that many others would rather have a letter, while some are contented with a mere stamp. I think it would be a swell idea if you asked readers what type of confirma-

tions they desire. The opinions could be tabulated and passed on to the radio stations."

On Reporting

Much has been written on the necessity of giving definite information on reception when reporting to a station. This is a little courtesy on the part of listeners which may be of some value to the engineering department. The following item from Harry M. Gordon, 317 E. Tenth St., Erie, Pa., brings an interesting slant to the matter of reporting.

"Last fall," he relates, "an engineer showed me a letter which his station had received from a listener in New Zealand. The report included a chart which showed the signal level, and I noticed that the station's signal had faded out completely at 4:05 AM., EST, on that particular morning. Prior to this time, the station had been showing a signal of QSA3, R4. The engineer showed me his log book for that date and I noticed that, at exactly 4:05 AM, the power had been doubled. Then, at 4:25, the power was cut in half—back to its original strength—and the New Zealand chart showed that the signal had come back to its R4 level at that very moment. Thus, the engineer got some very good dope from this report. He learned that his signal faded out, when his power was increased, and came back to normal when the output was reduced. Reports such as these will keep DX-ing going for us."

"In your December issue, you remarked about the race being run by DX clubs to schedule to greatest number of special programs," recalls Bireley Ross, 2426 Alco St., Dallas, Texas. "I think this is all wrong. It seems to me that there should be no more than two or three specials from one station during an entire winter season. I do favor having more than one special, since a DXer might run into a bad night

and might be unable to get the station.

"I think it is silly to schedule specials from stations which put on monthly frequency checks. We have a chance at these stations every month, so what good does a special accomplish for the DXers? I believe that clubs should concentrate on broadcasters who do not give frequency checks and whose regular programs are buried under local interference. Here in the Middle West, the Eastern stations are hard to get because of near-by stations on the same frequency. As most of the clubs are located in the East, they seldom take into consideration their Western members, with the result that stations on the Atlantic Coast come on with specials before Western stations on the same channels have signed off. An hour or two difference in time would make all the difference in the world for the DXers out here, so I should think the stations would be more than anxious to reach the greatest possible number of listeners."

Balloon Aerials

"The aerial put up with balloons certainly has my interest," asserts Carl L. Sackett, Jr., 402 W. 31st St., Cheyenne, Wyo. "I hope that you will publish the results of this experiment."

"In suggesting the balloon or kite aerial," informs E. E. Ely, R.F.D. 1, Box 9, Astoria, Ore., "I am sorry to note that you did not caution prospective users to be very careful to avoid electric transmission lines in the vicinity. All of these carry at least 440 volts, which is enough to be fatal, and generally much higher voltages. The danger from even an insulated wire coming into contact with these lines is very great."

We admit that the idea of a balloon aerial, quoted from a URDXC bulletin of some weeks ago, seemed most interesting. While we have

been of the opinion that such an arrangement would be beyond the means of the average DXer, we are grateful for Reader Ely's warning. Not having heard any more of the experiments by the originator of the idea, we trust that his wires haven't become tangled with the "big kick lines."

"I would like to correct an error I made in my last letter," points out Rober J. Flynn, 541 Beach St., Belle Harbor, L. I., N. Y. "When I said that I had seven verifications, I was referring to my short wave log. Actually, I have heard 275 broadcast band stations, of which about 45 are verified. My best catches are HHK, XEFL, 1YA, 2BL, YV3RC (880 keys), 10AK, LR5, LS2, KELD, CFJC, CHCK, CKMC, CKCH, KFVS, WNEL, Poste Parisien, Fecamp, Cardiff and others."

New Club Announced

"The International 6000-12,500 Mile Club was formed by me in August, 1935," advises Oliver Amlie, President, 56th City Line Ave., Overbrook, Philadelphia, Pa., "for the betterment of broadcast, short waves and amateur bands. To be eligible for membership, an applicant must send one of three groups of verifications: (1) 5 veries for short wave stations more than 6000 miles distant; (2) five veries of BCB stations more than 3500 miles away; or (3) 10 veries from amateur code or phone stations more than 6000 miles distant. All veries must be inspected by the President before membership cards will be issued.

"The more verifications sent in, the higher the honors received. While 5 veries will entitle a DXer to membership, 10 veries will receive the *Official DX Ace* certificate. Twenty veries will win the *Professional DX Ace* degree and 40 veries will bring the *Doctor of Degrees* certificate.

"There are no dues or fees for members when joining—everything is

free to all. We do expect members to send in their photographs for our album, and everyone must enclose return postage with their veries and for membership cards or certificates. Listeners everywhere are cordially invited to join our organization and to attend our bi-weekly meetings at 438 Market St., Philadelphia."

"If a self-addressed card is used with a report, I find that KSEI *will verify!*" supplies Frank W. Hoxie, Box 15, South Orrington, Maine. "I heard them request this on a broadcast, so I sent my card for a verie and received it O.K. They don't want letters, as they receive so many verification requests which have not enclosed return postage."

South Sea Air Mail

"I was quite anxious to have something come out on the recent KNX special about the coming air mail service to the South Seas," submits E. O. Cutler, Room 1313, 36 West 44th Street, New York City. "It will mean a lot to organized radio clubs in New Zealand and Australia. We all know that New Zealanders, especially, listen in to American programs regularly, but the time taken by ordinary mail via steamer makes co-operation difficult in DX matters. Often special and elaborate broadcasts, which can be received in the South Seas, are arranged three or four weeks in advance, but details have been received too late for publicity down there."

Ernest Frank, 5424 S. Cornell Ave., Chicago, has just purchased a new Scott 23-tube receiver and would like to correspond with DX fans in or near that city, particularly those who are receiving TA or TP stations on the b. c. b.

The FCC has granted construction permit for a new station in Waycross Ga., to operate on 1200 kcs. with 100 watts.

Leaves From A DXer's Scrapbook

● ● ● By COUNT DE VERIES

UPON the receipt of one fan letter, thereby establishing beyond question the wide-spread popularity of this column, your correspondent takes up the reins after a two months' vacation.

One of the contest stations, WCSH, Portland, Maine, has forwarded all reports received by them after their RADEX program on February 23rd. Upon checking against the station log, we have found all of the reports to be correct, and the requested verifications have gone forward to most of the listeners. If the following "postcard reporters" will forward return postage, they, too, will receive their confirmations: Clinton W. McGraw, 93 First St., Hamden, Conn.; Ray L. Boucher, 53 Pleasant St., Southbridge, Mass.; Richard Danecker, 152 E. Second St., Lansdale, Pa.; Charles B. Marshall, Jr., 26 Victoria St., Washington, Pa.; and James Walker, Romney, W. Va. (Address RADEX, Conneaut, Ohio).

A number of amusing incidents were uncovered while checking early entries in the contest.

Fred Bisset, CDXR president, be-moaned local static and predicted that he would not win even a toothpick. President Bisset was wrong. He won a whole box of toothpicks, which have been forwarded to him.

A Buffalo listener was perhaps the most distraught of all contestants. After delivering his entry into the hands of his mailman at 3:00 p.m. on February 25th, we can appreciate his dismay when the negligent postman confessed the next day that he had forgotten to mail the entry until after the deadline. The contestant was prepared to submit a sworn statement from the letter carrier to the effect that the entry had actually

been in his hands in ample time to be mailed on February 25th.

Several listeners ran into difficulties with their receiving equipment. One Connecticut resident blew out a power pack while listening to Major Bowes on Sunday night and was unable to listen in on the final morning, truly having received the gong. Another listener was obliged to replace two tubes, one fuse and a pilot light during the height of the contest, but managed to stay the limit. A West Coast DXer confessed that his aerial blew down during the first night.

F. C. C. Checks WEDC

Another report from the Commission indicates that WEDC has been refused permission to broadcast after-midnight programs for a period of 30 days. The significance of this action is unknown at the present time, but every DXer hopes that it is the first step in the elimination of *interference* from the all-night stations.

As pointed out in another section of this issue, there seems to be economic justification for late programs by some stations—that is, if these broadcasters are to continue in operation. Consequently, it is difficult to demand the absolute cessation of all-night broadcasts. Rather, it can only be hoped that cleared channels may be available for DX and test transmissions at regular intervals.

A number of suggestions for such action have come for readers. Of these, only two appear to have a chance for success. The first calls for the segregation of all 24-hour stations on a few frequencies, leaving all other channels free for occasional late programs at will. The second



Unlucky Lucy Monroe will not receive this new RCA radio, but it will be given instead to the 1,000,000th guest of the NBC studio tours. In addition this millionth guest will be dined and entertained in Radio City and featured on a coast-to-coast network broadcast.

suggests that all regularly-scheduled broadcasting stop at 1:00 a.m., local time, and begin again no earlier than 6:00 a.m. This would insure nationwide clear channels between 4:00 and 6:00 a.m., EST, and corresponding hours in other time zones.

Possibly a combination of these two ideas might be worked out. Let the stations with 24-hour ambitions commit themselves to such a stand and take their places on channels reserved exclusively for broadcasters of this class. All other stations would be required to sign off no later than 1:00 a.m. local time. Of course, special, test or DX transmissions would be permitted after 1:00 a.m., local time, but under no circumstances should these be permitted to be scheduled regularly nor should they have commercial sponsors.

Arthur E. Foerster, prominent NNRC official, has been appointed chairman of a committee to study the

all-night situation and arrive at some definite recommendation. Other DX clubs have designated members to assist Mr. Foerster. RADEX is pleased to work with this committee and will lend its assistance towards the successful consummation of the campaign.

Need For Action

That there is need for organization among DXers is evidenced by a recent news dispatch from Washington telling about a new bill, which may soon be passed and which would call for a nation-wide distribution of radio facilities, opening the way for the establishment of hundreds of new stations. The bill, introduced by Senator Wheeler of Montana, would scrap the current plan under which radio facilities are determined by density of population and would permit the F. C. C. to authorize stations where they might be needed.

Needless to say, the dumping of any number of stations upon the already-crowded broadcasting spectrum would only aggravate the present situation and do untold damage to the existing stations and listeners alike. Therefore, it is essential that any new plan for re-allocation of radio facilities should consider the problem of all-night stations.

Let us hope it will be possible to save the air for DXing before it is too late.

S. W. Observations

SINCE the China Clipper winged its way from San Francisco to Manila, the air route to the Orient has become merely routine procedure. This 8000 mile span is now being covered on a regular 5-day schedule, yet only four years ago it was thought to be impossible.

Although an important milestone in the progress of aviation, it is a fact that the route would be impossible were it not for shortwave radio.

Air bases had to be established by the Pan American Airways Co. at San Francisco, Midway, Honolulu, Wake, Guam, Manila and Macao, and at each of these points the initial task was the erection of a 200-watt transmitter.

This chain of radio stations now maintains hourly communication schedules with California and Manila on 5165 kcs. Unfortunately for DX-ers, these transmissions are not on voice, but if one can read Morse they can be identified by these call letters:

KNBD, Alameda, and KNBE, Giendale, Calif.; KNBF, Mokapu, Hawaii; KNBG, Guam; KNBH, Midway and KNBI, Wake Island.

* * *

Commissioner Payne of the FCC brought up a subject the other day that has been perplexing many of us for some time.

It is understood that, in the United States, a "shortwave broadcasting station" does not exist. All the transmitters in this country working on the s.w. are either commercial stations of private interests, or "relay" stations. Shortwave broadcasters are considered as "experimental" and bear experimental call letters. In this respect we are way behind several other countries, particularly Germany and England, who long ago took their stations from the experimental class and considered them as full-fledged commercial stations and gave them commercial call letters.

As experimental stations, our shortwavers cannot accept commercial advertising, so they must be maintained through the income from the sister stations which they relay. It naturally follows that some programs emanating from our stations have only local interest and the programs must be irksome to some overseas listeners.

While it is not our purpose to criticize American broadcasting, than which there is none better, we can-

not fail to mention that shortwave programs originating in London, Berlin, Paris, Madrid, Rome, Moscow, Tokyo, Melbourne, Sydney, Lisbon and Geneva, only to mention a few of the more important, are drawn up with a world-wide audience in mind rather than a local audience. Truly enough, some of the NBC and CBS programs that are shortwaved are the best entertainment in the world, but some of the day-time broadcasts from Boston, Pittsburgh, Schenectady and Chicago fail to interest listeners in other sections of our country or overseas.

Getting back to Mr. Payne; he is quite "het up" about the situation here and has decided the government itself can clear it up. It is proposed that cultural and intellectual programs be sponsored by the State Department and broadcast from the government stations at Arlington on five wavelengths which have been reserved. The State Department has not yet replied to the proposal but it is believed in some quarters that the reply will be unfavorable. We wonder why.

* * *

The British Broadcasting Corporation has a headache and admits it in one of their regular weekly releases. When one learns that the headache is over television, though, the news is not so startling, for who hasn't a headache over television? Engineers tax their brains for solutions and we tax our patience waiting for the engineers to give us a chance to peek into the studios.

This British headache is due to the fact they must transmit two different systems of television, the Marconi and the Baird. Each system requires an entirely different broadcasting technique, but they must be capable of being received on the same receiver. To defray the expense of the transmissions, the BBC will authorize sponsored programs paid for by business firms, a radical

departure from their long-established practice of selling no time.

Some types of programs to be scanned are musicales, cabarets, concerts, fashion shows, etc. One interesting feature will be a large clock by which the televiewer can actually see the correct time.

Public broadcasting of television in London will begin in May of this year. For the USA we cannot even say "it *may* begin this year." Television news trickles into our office now and then from England, Germany, France, Italy and Japan, but so far not even the slightest dribble comes from television centers in the USA.

The most definite statement we have seen was from David Sarnoff, President of RCA, who predicts we will see television in five years, but, he adds, in a relatively short time we will have facsimile in our homes. Facsimile permits the transmission of letters, newspapers, maps, or still pictures, printing the picture on paper similar to the telephoto method of sending pictures over telegraph wires.

The CFCO DX Policy

● ● ● By JOHN BEARDALL,
Owner and Builder

THE writer has been chastised in a gentlemanly way by nearly every radio DX Club in existence because of the unwillingness of station CFCO to set dates for DX programs.

Our system of DXing is quite simple. First, we refrain from any advance publicity; second, we study atmospheric conditions before broadcasting, and third, we give positive replies to every correct report received if return postage or its equivalent is enclosed. This system has yielded us some 14,000 letters in the past three years as a result of ten special programs sent from this 100-watt station.

We believe that the DX fan gets a much greater kick out of reporting a station which appears to have come on the air by chance and endeavors to secure reports in a purely spontaneous manner.

We announce that we are broadcasting a special test program, and as a special inducement we offer a five dollar gold piece to the person sending in the most distant report.

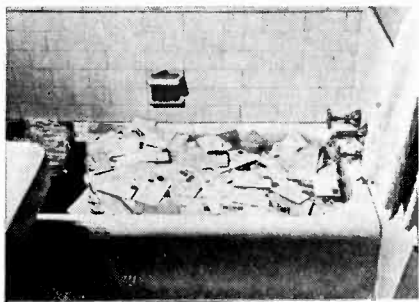
When we decide to run a DX program we always start at about 2:45 a.m., which is the approximate time most of the Pacific Coast stations leave the air for the night. Before the broadcast is actually put on, however, we check on reception conditions for the evening by contacting several reliable local listeners at about 11 p.m. and have them check on the reception of a western, southern, eastern and northern station at a considerable distance. If these reports are favorable in all directions, we commence our program.

Sometimes we have stood by as much as ten days after deciding to put on a program, waiting for what we consider ideal atmospheric conditions.

As a result of our DX system, all our prizes, with three exceptions, have gone to New Zealand fans, this being, we believe, sufficient evidence to justify our DX policy. The remaining three prizes went to mariners on the high seas at distances considerably greater than any distance in the United States or Canada.

Our biggest thrill of the past three years was a cablegram from Gordon Ramsay, Vogel St., Dunedin, New Zealand, which read: "Test prize program. Reception good. Roll on Mississippi. Lets Get Together Again. Time on my Hands."

So bulky has become our mail that we have used one of the bath tubs in the operating room of the Wm. Pitt Hotel to hold the 14,000 letters from all parts of the world, the United States and Canada. The following



The CFCO Bath-tub

foreign countries are represented: New Zealand, 13; Hawaii, 3; South Africa, 2; Bermuda, 3; Puerto Rico, 5; Newfoundland, 3; Cuba, 5; Mexico, 1; Venezuela, 1, and eight from ships on the Pacific and Atlantic Oceans. A second bath tub is now being set aside for mail and already contains about 3000 letters.

The Clearing House Reports

● ● ● *By* EMILY GRISWOLD
Secretary

AS THE Clearing House of the Inter-Club Cooperation Plan finishes its first season, DXers may be interested in learning something of what our work has been, what we have accomplished, and what the future holds in store for us.

The Clearing House worked directly in cooperation with the Chairmen of the various Courtesy Programs Committees. Each CPC chairman reported to me weekly on the programs scheduled by the members of his committee. These reports were generally received on Thursdays, and it was my job to check them over carefully and have my report in the mail the following day. My reports contained anywhere from 2 to 125

special programs. On but two occasions was I late with the work.

When the notice of a scheduled program came in, we checked to see if the particular frequency was already filled for the time in question. With the exception of foreign stations—which always came first—we gave preference to the card or letter which bore the earliest postmark.

If two stations were reported by different clubs for the same frequency at the same time, the broadcast with the later postmark was considered to be a conflict and, therefore, had to be cancelled in favor of the earlier special.

Some of the announcements of special programs came in from two days to six weeks in advance of the broadcast. Those which came in late didn't make the club bulletins. Programs reported far ahead of schedule seldom conflicted with other programs, while those which were announced about ten days prior to the transmission were the ones which caused the cancellations. Even so, there were but 20 or 25 conflicting programs during the entire season.

I have asked the various CPC chairmen to advise me of the reaction of stations whose programs had to be cancelled. So far, there have been no protests or "kicks" and, in most cases, the specials were pushed ahead to a later date. I do not know how the individual CPCer felt about having a program cancelled after working so hard to get a dedication, since I came in contact only with the chairmen and they, in turn, with their own committeemen.

I have noticed that some club bulletins have, on occasion, failed to report part of the special programs announced in the Clearing House reports. After all the work of arranging a program and checking it through the Clearing House, it seems to me that the least those editors can do is give their members the full advantage of all that is reported. While some DXers may have the sta-

tions in question and may feel that it is useless to print the announcement, I am sure that there are many listeners who would be only too glad to try for a program if they only knew that the station was testing.

In the October issue of RADEX, there appeared the suggestion that the CPC of one club have a certain frequency one week, another club another week, etc. The smaller clubs were to receive but certain hours and one club wasn't to enter the plan at all, due to the nature of its programs. It struck me that this did not give the small club the breaks it needed to get ahead and push out of the "small club class." I thought all clubs should be free to get dedications whenever they could. We didn't have enough conflicting programs this past season to warrant any classing of clubs.

I am not sure who will be running the Clearing House for the 1936-37 season, as it is up to the clubs to pass judgment upon the way it has been run this year. However, I would like to make a few suggestions which might assist the person selected to get the reports out and keep down the number of conflicts.

1. Have all CPC chairmen arrange their programs far enough in advance to enable specials to be shifted in case of conflict at any hour. Plenty of time is needed for this.

2. Arrange with the stations to start and conclude their programs on the hour and half-hour. This would eliminate some of the conflicts before they started. For example, a program from 3:45 to 4:15 would conflict with programs on both the 3:00 to 4:00 and the 4:00 to 5:00 periods.

3. Have only broadcast band programs listed on the Clearing House report. If a short wave bulletin is wanted, let that be kept separate and sent out on a different sheet as a SWL bulletin.

4. Let all reports from CPC chairmen be received at the Clear-

ing House on a Tuesday and give the operator until Thursday morning to mail the weekly reports. This gives a bit more time to check over the reports at the House and also allows a few days for the mail to travel before the week-end. The editors of the club bulletins would then have an opportunity to prepare their tip sheets over Saturday and Sunday.

I do hope that the Clearing House will continue to help the DXers as well as the stations. I know that unless something is done to see that stations get valuable reports on their dedications, we will be left without the grand hobby of DXing. After all, this special program business works both ways. A good report does help the station, while a good verification helps us as well.

Too much credit cannot be given Elwin Bullard for the work which he has done to bring the ICCP into existence. He has accomplished a great deal to help his own club, as well as all other organizations and each and every DXer.

What I Like About The GCDXC

● ● ● By REGINALD VINING*

WITH the purchase of a small radio in 1933, the natural desire to see what it would receive left that opening for the bite of the DX bug. I am happy to say that the first bite was fatal and long lasting.

While RADEX became sort of a monthly celebration for me, it was not until the spring of 1935 that I summoned courage to write in of my rapidly-growing log. In that letter, which was printed in the May, 1935 issue, I asked for DX correspondents.

An enthusiastic Bronx, N. Y., DXer was the first to reply to that notice. He was Ray Geller, Secretary and Treasurer of the Globe Circlers DX Club, and his letter paved the

way for my connection with this organization.

I was able to compare a sample GCDXC bulletin which he forwarded with similar publications from three other clubs. The many features of the Globe Circlers bulletin led me to believe that this society was offering just what I wanted, and so I became a member of this rapidly-growing DX fraternity.

I found the "Hot Spot," official organ of the club, to be the hot spot in every sense of the phrase in regard to current DX news and radio listeners fellowship. It was an eight-page publication which did not stop with a few tips and letters from members. By inspecting a few copies of this bulletin, I noticed the following features:

1. Interesting and pertinent editorials by one who really DXes, William Wheatley, the president of the club.

2. A mail bag well-filled with reports and comments from the club's many active members.

3. An occasional column of genuine humor for the members who like to break the strain of dignified DXing with a chuckle.

4. A news column embracing last-minute flashes on the doings of the F.C.C., other clubs and the various stations.

5. A distinguished short wave tips section, crammed full of meaty information of real value to the beginner as well as the full-fledged DXer. This column is edited by Joe Stokes, of the KDKA tip period, ably assisted by Eric Butcher.

6. An occasional Rogues Gallery column, giving the names and addresses of members who desire to exchange photographs with other members.

7. A very interesting and well-patronized Singleton and Eliminator contest, conducted by Ed Bachman, former president of the club.

8. A "Calling CQ" column, which

brings together members who wish to correspond, sell or swap second-hand radio parts, identify unknown stations, etc.

9. Frequent "Jr. Winchell" humorous biographies of various officers and members in turn.

10. Notices of Good Will trips which the officers make to the homes of distant members.

11. A new feature in this rapidly growing bulletin, not found in the publication of any other DX club. This is a cartoon and caricature page, with drawings to interest the members in DXing and in each other.

Continued inspection has shown that the Hot Spot has open-minded editors who are continually soliciting the ideas of members on how to improve the bulletin and the organization. Better yet, many of these ideas are put into effect.

A club fellowship is thus engendered which can be illustrated no better than by citing the case of Ray Stockdale, of Zanesville, Ohio. When learning of Ray's illness last fall, the Editor of the Hot Spot passed on the sad news to other GCDXC members. The result of this small notice can best be told by quoting from a letter written to me by Mrs. Stockdale on March 17th:

"The pile of GCDXC letters has reached very near the 900 mark, along with over 300 cards."

I am proud to be a member of a club which stands for the better class of DX, despises cheaters who attempt to fake veries, and emphasizes *Quality* and not *Quantity* when requesting special DX programs.

The Globe Circlers DX Club was organized in 1932 with about 50 members, having since absorbed a number of smaller organizations. It has constantly enrolled active members from all parts of the world. It is going places — and here is one member who is going with it.

*105 Tompkins St., Cortland, N. Y.

Stromberg-Carlson's New Receivers

● ● ● *By the* TECHNICAL EDITOR

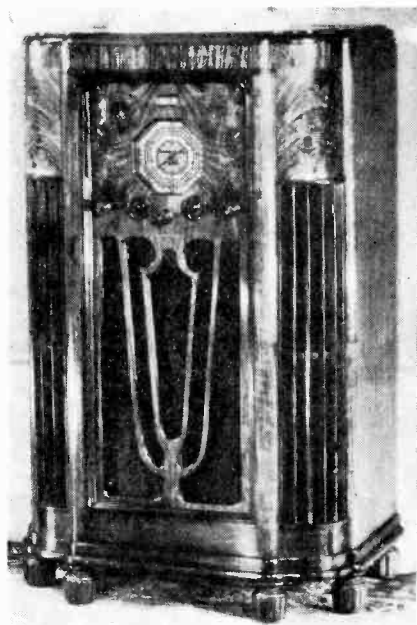
WHEN Stromberg-Carlson is mentioned to oldtimers in the telephone and radio game, it immediately brings back memories of fine telephone apparatus. So it was natural that when Stromberg-Carlson of Rochester put its 41 years of experience into radio receivers, most of us knew that fine radios would be the outcome. Time has proved this, and so this month, RADEX is pleased to present to its readers a summary of the newest 1936 models offered by Stromberg-Carlson.

Their line embraces twenty entirely new and different all-wave models. Eleven of these models are similar in that they cover three wave bands — 540 to 1500 kcs.; 1450 to 3500 kcs. and 5600 to 18,000 kcs. In addition, there are three models that cover a slightly different range: 540 to 1700 kcs.; 1700 to 5400 kcs.; and 5400 to 18,000 kcs. Then there are six larger models of four wave bands each — 520 to 1600 kcs.; 1500 to 4200 kcs.; 3700 to 10,000 kcs.; and 8500 to 23,000 kcs.

All-Wave Models

All models cover the regular broadcast, foreign, police, aircraft and amateur wave bands, and some include the ultra-short wave band of 23,000 kilocycles (23.0 megacycles). Each model has its pre-selector stage for all bands, tuning range indicator, automatic volume control and manual volume control, tone control and clarifier, powerful class "A" audio amplification, the new Stromberg-Carlson speaker, and an attractive table or console cabinet made of walnut.

The smallest models have 6 tubes



The New Stromberg-Carlson

and the largest has 16 tubes. Some models are fitted with metal tubes and others have glass tubes. Delicate and positive tuning, necessary in all-wave reception, is made easy and accurate with the new dual-ratio tuner. A small center knob permits turning at normal speeds, and a larger rim, which is easily grasped, makes it possible to slow down the movement of the dial indicator. There is no troublesome gearshift, or pulling and pushing of knobs, to operate this tuning apparatus.

Music Goes 'Round

Tone reproduction is one of the prime purposes of any radio, and it is natural that efforts should be di-

rected toward the perfection of the tone units of radio receivers. The ability of any radio to reproduce all pitch tones and overtones of speech and music is of more consequence than any other quality. A proper balance between bass and treble, at all intensities from a whisper to full room volume, will not accentuate either tone. This is the goal of every radio manufacturer.

We do not know whether Stromberg-Carlson took a tip from a pair of popular song writers, or if these writers got their idea from Stromberg-Carlson, but in either case, it is a fact that in the newest Stromberg-Carlson high-fidelity receivers *some* of the music goes down and 'round and 'round. But it does not come out like it does in the song, and that strange event is worth a brief story in itself.

"Acoustical Labyrinth"

The Stromberg-Carlson engineers have coined one of those new phrases that every radio manufacturer expects of his publicity department. So we were not greatly surprised when we began to hear about the "Acoustical Labyrinth". Actually, however, this is more than a name, for the engineers have hit upon a very ingenious scheme to overcome booming and vibration.

We know that sound is projected from all sides of a speaker, and some low notes slip around through the back of the cabinet to cause boominess and distortion to annoy careful listeners. The "Labyrinth" eliminates these annoyances; it is attached to the back of the speaker, and all sounds from that source are led around and around through the winding passages constructed of sound absorbing material until they are entirely muffled out. As a result, the only sounds that are heard are the ones projected directly from the front of the speaker. The confined air-column within the labyrinth

back of the speaker has a cushioning or shock-absorbing effect, and it permits a greater speaker volume without rattling or vibration.

A New Speaker

The use of this "labyrinth" makes possible the perfect reproduction of sound between 50 and 7500 cycles. It takes the unnatural boom out of voices and music, and provides reproduction of bass notes with a new regard for true fidelity. This feature is not incorporated in all Stromberg-Carlson sets, because of the cabinet space that is required. However, all the speakers have a new design that is worth of mention.

A newly discovered animal hide provides edge suspension for the loud speaker cone. It is called Carpinchoe leather, and is not affected by moisture and age. The chamois-like quality of this hide permits it to smooth out the harsh notes because it correctly absorbs the vibrations around the edge of the cone, and thus maintains high fidelity of tone.

The Model 84

The most popular of the larger Stromberg-Carlson radios is model 84. This all-wave receiver covers a range between 520 kcs. to 23,000 kcs. It has twelve tubes, of which eleven are metal and one is of glass. The a.c. input power consumption is 150 watts per hour, and the large speaker handles easily an output of 15 watts. The intermediate frequency used by this modern superhetrodyne circuit is 465 kilocycles.

The four tuning ranges of the set cover all important broadcast and special service bands of both American and foreign stations. In addition to the improved speaker and sound absorbing labyrinth, mentioned previously, audio reproduction is further improved by employing sound diffusing vanes in front of the loud speaker opening. These break up the otherwise directional higher frequencies,



Benay Venuta, often starred as a guest of Al Jolson, is so popular that she is invited and re-invited to sing her blues songs with Victor Young and his Orchestra. Miss Venuta is returning to her old spot with Freddie Rich on the Penthouse program after a long absence due to her featured engagement in the road production of "Anything Goes."

thereby providing reproduction of the high notes in all parts of the room.

Metal Tubes

The line-up of the tubes in this model is as follows: The first metal tube is a type 6K7 that functions as a radio-frequency amplifier in the pre-selector stage; next comes a type 6A8 first detector or modulator; then a type 6C5 is used as the oscillator which is coupled to the modulator; a type 6K7 operates as the intermediate-frequency amplifier; the second detector or demodulator and automatic-volume-control combined is a type 6H6; a third 6K7 serves as the first audio amplifier; two 6F6 type tubes are connected in parallel and operate as an audio driver stage feeding the primary of a large push-pull audio transformer; and the output of this transformer feeds into another pair of 6F6 tubes that op-

erate in push-pull for the audio power output stage. There is a type 6J7 tube that is used in an interstation noise-suppressing or "Q" circuit, and the only glass tube is a type 5Z3 rectifier.

Stromberg-Carlson has a new manual volume control of stainless steel working against nicked silver for quietness. There is a similar unit that also gives noiseless treble tone control. A fidelity control increases the fidelity of the receiver when reception conditions warrant. The full-vision four-section airplane type dial is of an attractive design. Only the section of the dial that corresponds to the tuning range in use, as determined by the band-selector switch, is illuminated at any time. The dial is easy to read, and its tuning is very simple. A calibrated visual meter (not available on all models) enables the user to tune to exact resonance.

Antennas

A wave-band control switch selects the tuning range; illuminates the proper section of the dial; grounds out idle coils so as to maintain full sensitivity; and selects the proper antenna. Automatic antenna selection provides pre-selection on all stages of reception, and automatically selects the correct antenna matching impedance for the wave band being used. There is a new Stromberg-Carlson broadcast and short-wave antenna kit designed for the new models. It tends to eliminate man-made noises and improve short-wave reception. But any good single-wire antenna, about 100 feet long, will work nicely. And the set has several antenna terminals on the rear of the chassis so that two or three different "L" antennas or doublets may be connected if desired.

Permits for new stations at New London, Conn., and St. Augustine, Fla., have been granted for 100 watts on 1500 and 1210 respectively.

WHAT ABOUT FADING?

● ● ● *By* B. FRANCIS DASHIELL

WHEN radio signals come and go, without warning or apparent reason, we say they are "fading". Many readers of RADEX are very much concerned when hard-to-find DX signals fade away and are lost. Although these signals become so weak they cannot be heard, it is not long before they return to full volume.

The fading action repeats itself in cycles, time after time, but seldom with any degree of regularity. At certain moments fading seems more pronounced than at others, and often there is associated an inability of signals to penetrate through a blanket or curtain that seems to veil distant stations. Thus we find that distant reception is fine at times, while at others it is almost impossible to pick up weak, far-away stations.

Automatic Volume Control

The makers of radio receivers have done all they can to overcome the fading that is associated with the transmission of radio waves through space. They have devised the automatic volume control system. It tends to hold constant the volume of the incoming signal to a level which is predetermined by the adjustment of the manual volume control knob.

But when the incoming signal falls away entirely, the automatic volume control has nothing to work on. The fading signal cannot be amplified because there is nothing to boost up. So the best of receivers, although fully fitted with automatic volume control circuits, cannot always prevent fading. They do, however, minimize fading, for as long as the signal does not disappear entirely, it can be

boosted up to the established level at such times. We seldom are aware that the signal is fading in the antenna; it is only when the signal is completely lost to the antenna that we realize that fading is happening in a modern radio set.

One of the readers of RADEX, writing to the Technical Editor, stated that he had been advised by the makers of his new radio set, that a spell of unwarranted fading might not be the cause of the set, but perhaps due to an increased activity of natural fading.

What Is Fading?

Naturally, this letter raised an interesting question, for fading is important to all radio listeners, particularly DX enthusiasts. So RADEX has made a survey of present-day fading, and a brief discussion of this strange phenomenon will not be amiss. In any case, there is little that we can do about these mysterious forces of nature over which we have no control. But, as we shall see later, if fading is due to any mechanical or electrical failure, we can correct the defect.

Radio signals are shot out with the speed of light from the transmitting station. There is one wave that travels along the ground. This ground wave does not go so very far, and it is never subject to fading. Many short-wave signals from nearby transmitters are received entirely via the ground wave, for they are in the skip-distance area of the sky wave. The wave that moves out into space is called the sky wave, and it is here that fading usually occurs. But, of course, there is also some interaction between the ground and sky waves which produces fading at intervals.

The sky wave travels out toward space, and it would move into the Universe if it continued as a projected wave or beam. However, there is a mysterious something which we choose to call the radio roof or ceiling, that bends these waves around the curvature of the earth and reflects them down to the surface. When a broadcast signal, or wave, passes through the region surrounding the earth, it becomes entangled in various opposing forces that tend to check its free passage. Thus, intermittent fading, or even a total loss of the wave, may result. At times these mysterious interferences become very severe, but as a rule they do not oppose world-wide reception to a serious degree.

Above The Stratosphere

High above us is a region that, while unlike the lower atmosphere in which we live, is composed of some sort of gas that is easily and quickly ionized or broken up into tiny electrons and electrical ions through the action of the sun. In the early days of radio research this high region or level was given the name of Heaviside Layer, after the physicist who promulgated the theory. But now most scientists give the region a more distinctive term—the ionosphere.

Our atmosphere is divided into several layers or belts. We live in the lower region — the troposphere. About 20 miles up is the beginning of another belt. This is the stratosphere, and we have heard much about trying to reach it with balloons. Still higher is the ionosphere — that strange region where the northern and southern lights play in winter, and where great magnetic storms spread their influence to the earth beneath to put land telegraph lines out of commission and blanket all radio reception.

Any change in the upper atmosphere will have a direct bearing on

radio waves. Its under-surface, dense with ions, acts as a reflector. Let us suppose that a station in London is broadcasting and a person in Omaha is listening. The wave that is propagated from London rushes up to the sky, but when it reaches the radio ceiling it is bent back toward the earth and reflected down where it is picked up by the antenna at Omaha. This is similar to a beam of light thrown against a mirror and then reflected to another position.

Why Fading Occurs

Now let us suppose that the density and height of the reflector or radio mirror is made to vary. If it is less dense, the radio wave will penetrate deeper into the ionosphere and be weakened by absorption; if the surface beneath is undulating or constantly changing in height above the earth, the angle of reflection will be changed from time to time. As a result the London signal being received at Omaha will vary in intensity or die out entirely. This action is similar to that which can be demonstrated if a glass mirror is held in a shaking hand, and if clouds pass over the sun; the intensity of the reflected light beam will vary or fade out from time to time.

When anything disturbs the radio ceiling or reflecting layer, fading is certain to occur. But what can be of such magnitude that it can influence the density and smoothness of this gigantic, invisible region where ions abound, and which has the power to reflect downwards the radio waves shot out from thousands of transmitters on earth?

The sun is the only source of the vast energy necessary to affect our outer atmosphere. It ionizes the rare gas and varies the density of the ionosphere. This is demonstrated by the fact that, during the day, when the sun's rays ionize the lower levels of our atmosphere, the reflecting layer lies closer to the earth and the angle

of reflection is less. Broadcast reception does not cover the distance by day that it does by night when the reflecting level rises higher above the earth.

The Sun And Radio

As long as the power of the sun is thrown off steadily, radio waves go about their business without much solar interference. The sun, therefore, becomes the indirect reason for the fading and blanketing of signals. But as soon as the sun goes off into some sort of erratic spree, radio and land communications will be affected to a serious extent.

The principal cause of the sun's misbehavior in this respect is a breaking out with sun spots. These large black spots are occasionally observed in the sun's equatorial belt, and sometimes may be seen through smoked glass by the naked eye. The greatest spots may measure up to 150,000 miles across, and such activity may mean magnetic troubles on earth.

Sun spots appear with greatest activity every eleven years. Back in 1924 there was a period when very few sun-spots were in evidence. But the cycle gradually rose to a maximum in July, 1928, when great sun-spot activity was noted on the sun. Radio reception was then at a low level, and distant stations simply could not be heard with any satisfaction at all. Magnetic storms surged through the earth, and telegraph lines were rendered useless many times. The year 1928 will long be remembered as one of radio's most troublesome eras.

More Sun Spots Due

The sun-spot cycle began to diminish until August, 1933, when radio reception was very good on the broadcast bands, and magnetic interferences caused no trouble. This cycle is again on the upturn, and should reach its peak in 1939. It appears that radio reception on the

broadcast and long wave bands will meet many troubles during the coming three or four years. Fading should become more general, while an occasional blanketing of distant signals may be noted at times.

But when sun-spot activity increases and the upper regions rapidly change in electronic density, the short waves travel greater distances and come through with less interference. So, at the present time, we are entering an era of good short-wave reception. This should gradually increase until 1939, and then drop off to 1945, when indifferent short-wave reception from long distances may be expected. However, during that time, good broadcast and long-wave reception will be the rule.

There is much that can be said about this complicated subject, but many scientists are making daily observations and studies, and some day more will be known about the phenomenon of fading. It is sufficient to say, however, that with better receivers constantly appearing and more power being used by transmitters, the fading and absorption of signals noticed in 1928 should not be so troublesome in the years that are approaching, particularly in 1938-39.

Power Fading

We now come to the question of what causes fading within the receiver, and how it may be corrected. When a set seems to fade with unusual severity it should be looked upon with suspicion. Once the set is known actually to be faultless, then we are safe in assuming that natural fading is causing the annoyance, and that nothing further can be done about it.

Fading also may be caused by trouble in the power circuit. The unit may not be producing a steady flow of electricity, and slight intervals of voltage variation can easily change the operating characteristics

of the tubes. Thus the volume of the signals being amplified may fall at irregular intervals. Sometimes this is due to interaction or coupling between the power unit and the circuit, and a more complete separation of the two circuits might correct the trouble.

Then, too, if the a-c power lines leading to the receiver carry a flow of current that varies its line potential a few volts up or down, the rectified current furnished to the tubes will cause the operating potentials of the tubes to swing up or down with corresponding changes in volume, similar to fading.

Antennas And Tubes

Antennas are one of the principal causes for worry when sets seem to fade. If the wire sways in the wind, or the leadin swings close to some grounded surface, such as a metal down-spout, fading of signals will occur. Apartment-house antennas, usually strung in racks and closely parallel to each other, are affected by the tuning of different sets attached to adjacent antennas. This kind of fading appears only at times, and provokes much concern, for it is difficult to locate the reason for such erratic behavior.

The tubes in a receiver often cause many forms of grief, and fading is one of these. Temperature variations within the tube tend to change the positions of some of the elements, and therefore influence the smooth action of the tube to such an extent that fading is observed. Sometimes even the color or degree of redness of the heated cathode or filament will be seen to change when signals fade away or come back louder than ever.

And, of course, many times the cause of fading is found in a defective automatic-volume-control circuit. A tube that is gassy will be unfit for this purpose. Poor connections, or parts subject to change be-

cause of heat, will vary the coupling between the automatic-volume-control tube and the rest of the circuit it operates. Gassy tubes in the r-f and i-f stages of the receiver may prevent those stages from being properly controlled by the a-v-c tube.

Defective Parts

There is a form of fading that is caused by faulty tuning condensers. The vibration of the speaker may bring about a shifting of the position of the plates, and thus detune the set. Frequency-shifting produces a similar effect, and this phase of signal "creeping" has already been thoroughly discussed in an article that appeared in the March, 1936, issue of RADEX.

Defective parts, such as bypass condensers or resistors, result in severe fading at times. When a condenser is shorted, it is possible that momentary fading will occur. If the condensers in the r-f or a-f circuits of the receiver are leaky, they should be replaced. And a defective biasing circuit, with its grid condensers and resistors, is a likely point for suspicion.

A common fault lies in poorly soldered contacts, imperfectly fitted tubes in their sockets, defective grid leaks, and the vibration of the chassis due to the speaker. These all tend to alter the constant resistance at these points of contact and cause changing potentials in the operating circuits. A hot soldering iron, or a piece of fine emery cloth, as well as a careful readjustment of tension parts, will cure this form of fading.

Errata

Harold J. Clark, secretary of the Plainfields' DX Club, writes us that our statement regarding dues in that organization was in error. They are 75 cents for the first year and 50 cents thereafter.

The Problem of Man-Made Interference

● ● ● By Carleton Lord

EVER since the early days of broadcasting, listeners have been obliged to endure barages of static interference in varying degrees of intensity. Some of this static can be traced to natural causes and must be expected at certain seasons of the year, while the rest is known to be the result of electrical equipment of man's design.

Although engineers have been unable to eliminate the natural static, it is an established fact that the man-made variety can be prevented. With that in mind, it is astonishing to realize that few, if any, attempts have been organized to conquer this bugbear of ordinary reception.

In certain sections of large cities and towns, the racket caused by various electrical appliances limits reception at all times to powerful local stations, while localities are few and far between where some degree of man-made noise is not prevalent.

While long-distance devotees have been the first to cry out at this wanton waste of reception possibilities, there are few average listeners who can truthfully state that they are not affected in some degree by electrical interference.

During the past few years, many manufacturers have capitalized on the situation through the merchandising of so-called noise eliminating devices. Possibly the first gadget to appear on the market was an ordinary filter intended to cut out disturbances coming into a receiver through the power line. While this served its purpose, it did not begin to affect the interference picked up by the aerial and lead-in system.

Next in line came the original

noise-reducing antenna system, and listeners are divided on their opinions of the effectiveness of these devices. Designers of the systems worked on the principle that most of the noise was picked up by the lead-in, so they pitched their aerials in the skies, away from all interference, and defied the racket to penetrate the armored lead-in wires. Whatever else may have resulted from such an installation, the chances were excellent that signal strength would be reduced to a point where noise wouldn't be noticed.

More recent developments in antenna design have been more effective in the reduction of interference, but we have yet to receive a report which has claimed complete elimination of noise without sacrifice of signal—and that should be the aim of engineer and listener alike.

While a tooth-ache may be relieved temporarily by home remedies, a good dentist will go to the root of the trouble and correct the cause. By the same reasoning, radio interference should be attacked at its source rather than at its destination, and the sooner listeners realize this and act accordingly, the better reception will be for all of us.

Although pretending to be a leader in radio broadcasting, the United States is woefully weak on the interference problem. Only a few scattered communities have ordinances covering this subject, and even then the enforcement of the laws cannot be said to be stringent. A listener is usually faced with the choice of enduring the racket or convincing an unsympathetic power company of the necessity of tracing the source of the noise—and the results are likely to be the same in either case.

While American listeners scurry for cover at the approach of a barrage of interference, the same cannot be said for their contemporaries in foreign countries. In Great Brit-

ain, for example, Post Office engineers investigate all complaints about noise, and are usually successful in tracing and eliminating the cause. Special displays at radio shows distribute information on the suppression of interference, while competent authorities are always ready to give advice on individual problems.

French statutes have a special section devoted to radio interference, and filters are prescribed for specified noise-making apparatus. Manufacturers are compelled to provide such filters on all new equipment, while owners and operators are required to install the necessary devices. Heavy fines are in order when discovered sources of noise are not immediately suppressed. A standard of interference-free reception has been established and set owners are requested to report for investigation any apparent excesses of noise.

German engineers have recently developed special equipment for the tracing of interference-producing apparatus, and the location of source of racket is comparatively simple. Here again, government regulations provide for the prompt elimination or correction of the offending equipment.

Down in New Zealand, the Post and Telegraph Department has been applying pressure as the result of increasing complaints about interference. It was ordered that a whole section of a street railway system install proper suppressing devices. The cost of filters for each car ran in excess of \$20 and a comprehensive survey was started to determine whether the entire system could be cleared up.

A comparison of these examples with conditions in the United States would be superfluous. Manufacturers continue to put out vacuum cleaners, fuel oil burners, electric mixers, washing machines, refrig-

erators and countless other electrical equipment without regard for filtering of the resultant interference. Signs and traffic lights flash continuously. X-ray machines and high-frequency devices buzz in hospitals and doctors' offices. Automatic machinery in factories clutter the air with maddening racket. Street cars, garages and filling stations combine to lay down a heavy blanket of noise.

And the American listener goes about his business, protesting a bit when interference spoils a favorite program, yet doing absolutely nothing about it!

He may erect a noise-reducing antenna, spending \$20 or \$25 for the proper masts and equipment, but even then he is applying only a deadening anesthetic for a partial relief. He seldom thinks of the only sure elimination of his trouble—an attack upon the actual source of the noise.

How much simpler and more effective it would be to rout out the interference-producing equipment and see that proper filters were installed. Why should a neighborhood of twenty or thirty families be obliged to spend hundreds of dollars for noise-reducing equipment when a few inexpensive filters would eliminate all of the racket at its source?

The answer lies with the listener himself. As long as he protests vaguely at existing conditions, he can expect no change. When he finally arouses himself to a state of action, he has a chance of ridding himself of annoyance for all time.

Italy is reported building a powerful 500,000 watt radio station to compete with the huge broadcasting plant in the Soviet Union, claimed to be the most powerful in the world. We still believe WLW is the biggest, however. It has 500,000 honest watts.

Hollywood Salutes The World

AN EXAMPLE of what can be done by a station when broadcasting a DX program was afforded listeners during the gigantic international good-will program from KNX, Hollywood, Cal., between 3:00 and 7:00 a.m., EST, on March 1st.

Presented in co-operation with the Newark News Radio Club, on the inspiration of its vice-president, E. O. Cutler, KNX arranged a colorful program of sustained interest, and dedicated portions of the broadcast to countries whose radio reception at a particular hour made it possible for listeners to tune this station at the highest peak of efficiency.

The significance of the occasion was better exemplified by the fact that British, Japanese and Argentine consuls, and other international dignitaries, spoke directly to the nations which they represented. Among the nations saluted were England, Canada, Mexico, Spain, Algeria, Sweden, Norway, Alaska, Japan, Siberia, China, Australia, Argentina and the Philippine Islands.

Other guests included well-known artists as well as civic and industrial leaders. Established Pacific Coast radio entertainers were supplemented by special talent from many of the Hollywood motion picture studios.

Of special and dramatic interest was the placement by Pan-American Airways of their entire Pacific facilities at the disposal of KNX for the period of the broadcast, for among the focal points of the program were the isolated Pacific islands on the course of the trans-Pacific clipper ships. The lonely ground crews were addressed by Colonel Clarence M. Young, General Manager of Pan-American Airways for the Pacific Coast.

Listeners who tuned to KNX on this morning were rewarded by an outstanding program of international interest.

Our Readers' Troubles

(Continued from page 16)

pose. As you state, there are three posts on the back of the Crosley set. A is for antenna, G is for ground, and P is for the phonograph pick-up. A short piece of wire will be found connecting P with G in your set. This wire must be broken or removed when the pick-up is connected across P and G. The broken gap must be closed when the set is used for radio purposes. With proper connections your pick-up can be used with any radio receiver.

New Tubes

Can I change the tubes in my Philco 211 receiver for newer glass tubes without changing the wiring? Does a tube control the automatic-volume control circuit, and if so, which one? My volume control knob is very noisy. Is it possible to lower the tone of the phonograph, when used, but the radio tone seems to be very satisfactory when signals are tuned in? A rattle has started in the speaker at some of the low notes, and must I get a new cone for the speaker?

A change in the tubes in your present set would not be advisable as the set uses an automatic volume control. However, the Arcturus Tube Company, of Newark, N. J., is making metal counterparts of your glass tubes, and with adapters they may be used in your receiver. We suggest you write to them. The 27 type detector-rectifier is the a-v-c tube, and has nothing to do with the action of the hand-operated volume control knob. From what you say a new volume control unit should be installed.

It is likely that a new cone in your speaker may be required to stop rat-

ting on low notes, although a re-centering by an experienced service man may be all that is necessary.

You can lower the tone of the set when high pitched phonograph records are being played through the pick-up unit, by the use of a tone control. The same effect may be obtained by connecting a .02 mfd. 600-volt condenser between the plates of the 45 type tubes. A single-pole single-throw switch in series with the condensers and either of the 45 plates will enable you to bring the tone back to normal when signals are being received. As some high voltage will be on part of this switch, care must be exercised in its use.

The All-Wave Dial

(Continued from page 21)

year I have verified three stations in Japan, five in Java, ZBW in China, three in Australia, VPD in the Fiji Islands, five in Africa (including CR6AA), and many stations on all the other continents. At the present time I have 42 letters out for verifications."

Allie Landgraf promises to answer every letter he receives from users of Midwest 18-tube receivers. Mr. Landgraf, 97 Park St., Chilton, Wis., is a new DXer and is trying to build up a good log. So far he has heard GSC, DJC, DJI, EAQ and CRCX.

The popularity of Esperanto as an international language has gradually been growing ever since its inception in 1887, although it still seems doubtful that it will replace either French or English as a universally understood language. A number of radio stations in Europe announce in this language and some of them even write their letters in Esperanto. Mr. George Sholin, 55 Lapidge St., San Francisco, Calif., feels that Esperanto should be most valuable in

international broadcasting and is trying to popularize it among short-wave fans. He has offered to send to any RADEX reader a small grammar in return for five cents in unused United States stamps, or foreign readers can obtain one for the equivalent of ten cents in stamps. The grammar can be learned in an hour and the vocabulary is sufficiently large for daily use.

The Editor has one of Mr. Sholin's books and feels that it is worth a nickle to anyone who is interested. We haven't tried to learn Esperanto yet but a glance through the book almost convinces us that it could be easily learned.

"I have been concentrating on the 20-meter amateur phones lately," confesses Walter Wallin, 89 Garvan St., E. Hartford, Conn. "All American districts, Newfoundland, Mexico, Dominican Republic, Costa Rica, G5's and G6's in England are in my log. I would like very much to have the address of a Belgian amateur I just heard, ON4VK. He stated in his transmission that he just came on 20-meters on March 30 and would like reports on his station. I would like to correspond with anyone interested in logging amateurs."

Five Years of DX

(Continued from page 10)

marked by states, countries, etc. Letters are divided in a like manner in a large box file.

I have a small trunk full of DX souvenirs and mementos of past dial-twisting achievements. Quite a number of prizes are included, as well. One easily-remembered souvenir is a small birthday cake, with the call letters KGVO done in colored sugar on top of the frosting. This was sent to me way back in 1932. Too, there is a miniature bale

of cotton from Baton Rouge, a Mexican bird made up of feathers, and so many more.

The pictures of stations, personnel and transmitters are framed if possible, and there are a lot of them, too. One of the best is from IINA, Napoli, Italy, which shows the Bay of Naples in the background.

It is small wonder that I take my DX seriously. With all of these fine memoirs of many happy hours spent at my radio, how can I but hope for more thrill-packed sessions in the future? I think that my DX hobby has brought me something which mere money cannot buy. Pleasure such as this can be acquired only after long practice and perseverance at dial twisting.

Rt. No. 3, Box 660, Toledo, Ohio.

THE MONTH'S CHANGES ON THE SHORTWAVES

- 2.414 KACN, San Buenaventura, Calif. New
- KACO, Tracy, Calif. New.
- KACS, Bakersfield, Calif. New.
- 2.430 KNHG, Prescott, Ariz. New.
- WAKH, Bloomfield, N. J. New.
- WCPD, Charleston, S. C. New.
- 2.450 KACR, Seminole, Okla. New.
- 2.466 WAKG, Clearwater, Fla. New.
- 2.490 KACQ, Kalaicho, Wash. New.
- 3.190 WAJJ, -K, -L, -M, -N, portables in Florida.
- 3.430 YDOG, Sourabaya, Java, from 2.730.
- 5.165 KNBE, Glendale, Calif.; KNBF, Mokapu, Hawaii; KNBG, Sumay, Guam; KNBH, Midway; KNBI, Wake. New always.
- 5.890 HCK, Quito, Ecuador, from 5.815.
- 6.090 VE9BJ, new owner: New Brunswick Brdstg. Co., Admiral Beatty Hotel, St. John, N. B.
- 6.155 COKG, Santiago, Cuba. Formerly C09GC on 6.150.
- 6.235 HRD, La Ceiba, Honduras. New.
- 6.280 HIG, Trujillo, D. R. New.
- 6.420 HHS, Puerto Plata, D. R. New.
- 6.630 HIT, Trujillo, D. R. New.
- 6.950 HIC, La Romana, D. R. New.
- 9.500 PRF5, Rio de Janeiro, from 9.505.
- 9.510 HJU, Buenaventura, Colombia, from 9.500.
- 9.520 XEME, Merida, Yuc. New.
- 9.700 CQN, Macau, from 6.072.
- 10.042 DZB, Nauen, Germany, from DJJ.
- 10.165 HS8FJ, Bangkok, Siam. New.
- 10.285 DZC, Nauen, Germany, from DIQ
- 10.420 DZB, Nauen, Delete.
- 11.595 VRR4, Stoney Hill, Jamaica, from 11.495.
- 11.715 TPA4, Pontoise, France, from 11.720.
- 11.820 GSN, Daventry, Great Britain. New.
- 11.880 TPA3, Pontoise, France.
- 13.595 GBB2, Rugby, G. B., from GBB, 13.500.
- 13.827 HRF, Tegucigalpa, Honduras, New.
- 13.990 GBA2, Rugby, G. B., from GBA, 13.984.
- 15.180 GSO, Daventry, G. B. New.

- 15.245 TPA2, Pontoise, France, from 15.250.
- 15.310 GSP, Daventry, G. B. New.
- 19.480 GAD, Rugby, G. B. New.
- 19.630 VQG, Nairobi, Kenya. New.

THE MONTH'S CHANGES IN STATION DATA

		NEW
980	XEF	Juarez, Chih.
1000	XEBK	Nuevo Laredo, Tams.
1200	.....	Redding, Calif.
1210	XEAT	Hidalgo, Chih.
1240	XEAC	Tijuana, L. C.
1310	XEAG	Cordoba, Ver.
1370	.....	New Albany, Ind.
1420	KEUB	Price, Utah
1500	KTEP	El Paso, Texas
		POWER
730	CMK	Havana, Cuba, 3000 from 250
760	CMHX	Matanzas, Cuba, 200 from 150
790	CMGH	Matanzas, Cuba, 250
810	CMCF	Havana, Cuba, 600 from 250
910	CJAT	Trail, B. C., 1000 from 250
920	CMX	Havana, Cuba, 1000 from 650
1320	KID	Idaho Falls, Ida., 500 from 250
		FREQUENCIES
640	CMBC	Havana, Cuba, from 970
680	CMCG	Havana, Cuba, from 1255
810	CMCF	Havana, Cuba, from 815
820	CMHW	Cienfuegos, Cuba, from 810
970	CMXB	Havana, Cuba, from 640
1060	CMXB	Havana, Cuba, from 1380
1110	CMCJ	Havana, Cuba, from 1100
1300	WBBL	Sheboygan, Wisc., from 1410
1370	HIZ	Trujillo, D. R., from 1300
1380	CMCR	Havana, Cuba, from 1410
1420	CMCQ	Havana, Cuba, from 680
1460	CMCU	Havana, Cuba, from 1280
		DELETE
1420	CMGI	Matanzas, Cuba
1500	CMCN	Havana, Cuba

Stop Press Notes

KWSC, Pullman, Wash., is to increase day power from 2000 to 5000 watts.

WCLO, Janesville, Wis., may increase power from 100 to 250 watts.

KIEM, Eureka, Calif., will change from local to regional channel and increase power from 100 to 500 watts.

WEED, Rocky Mount, N. C., will increase day power from 100 to 250 watts.

Until August 1, KIRO, Seattle, Wash., will use 1000 instead of 500 watts on 710 kc.

WORL will move its studio from Babson Park to 610 Beacon Street, Boston, Mass.

WAIM, Anderson, S. C. has permission to change frequency from 1200 to 630 kc. and power from 100 to 1000 watts.

Assorted S. W. INFORMATION

READERS who are not acquainted with some of the radio abbreviations or expressions which are often seen and heard, may find something of interest in the assortment given below.

The Spanish Alphabet

A, pronounced ah; B, bay; C, say or thay*; D, day; E, ay; F, effay; G, hay; H, ah-hay; I, ee; J, ho-tah; K, kah L, el-lay; M, em-may; N, en-nay; O, oh; P, pay; Q, koo; R, air-ray; S, ess-say; T, tay; U, oo; V, vay W, doo-ble-vay; X, eckis, ay-kis, ek-key*; Y, yay, ee-grek, ee-gray-yee-ah*; Z, zed.

*These pronunciations are given the way they sound on the radio and may not agree with Spanish textbooks. Slightly different accents are heard in the various Spanish-speaking countries, which accounts for the difference in pronunciation of some of the letters. One, oo-no; Two, dose; Three, trace; Four, koo-at-tro; Five, think-ko; Six, sase; Seven, sate; Eight, oh-cho; Nine, noo-ay-ve; Ten, diez.

Amateur Abbreviations

To save the trouble of sending a lot of extra dots and dashes, many words are shortened by the amateurs and these short forms are often seen in print. The letter X is used for "trans-" as in "xmmitter," xmission," etc. "Xtal" is the shortened form for crystal. Schedule is spelled "sked."

You, u; Your, ur; Thanks, tnx or thanx; Good, gud; From, de; Phone, fone; Again agn; Some, sum; Very, vy; And, es; With, wid; Please, pse; Best regards, 73; "Love and kisses," 88.

An operator is an "op"; his typewriter is a "mill"; he proudly refers to his xmmitter as "junk" or "a rig," while his aerial is usually a "sky wire" and the pylons supporting the sky wire are "sticks." Instead of typing on his typewriter, he "pounds"

the mill, and the hand with which he operates his key is his "fist." A good op is said to have a "gud fist."

While programs for retransmission are being lined up, some interesting lingo is sometimes used by the commercial ops, such as "Down in the mud," which means that the signals are of low volume, or the modulation is too low. Those who sing as if they were tired are said to have "lock jaw" and those who skip over notes, especially in scales, are "scoopers."

All radio operators, amateur and professional alike, seem to be "old men" and "young ladies," regardless of their respective ages. OM and YL are the abbreviations for "old man" and "young lady."

CQ is a general call to any station wishing to QSO.

A QSO is a communication between two stations.

A QSL is an acknowledgment, as a QSL card, which verifies reception of a transmission.

K means "go ahead." When an operator finishes his own part of a transmission and wishes the communicating station to reply, he terminates his own transmission by sending K in code. or, if using phone, says "K," or "wah dit dah" (the way K sounds in code), or he merely says "go ahead."

CUL means "see you later," or CU agn, "see you again."

QRA, a station's address.

QRM, interference from other stations, or local QRM can be interference caused by faulty electrical appliances nearby (man-made static).

QRN, Atmospherics, or natural static.

QRT, "quit."

QSA, The understandability of signals is expressed by the QSA Code. QSA1 being signals which are not at all intelligible and QSA5 being perfectly understandable signals.

QSB, fading.

R, The R Code describes the volume of signals, ranging from R1, the faintest signals which can be heard in the headphones, to R9, the very best signals on the loudspeaker.

A1, Continuous wave (code) emission.

A2, Interrupted continuous wave (code) emission.

A3, Voice emission.

CW, Continuous wave.

ICW, Interrupted continuous wave.

Condition A, Inverted modulation or "scrambled speech."

Condition B, Intelligible speech.

CMC, Canadian Marconi Co.

BBC, British Broadcasting Corp.

RCA, Radio Corporation of America.

NBC, National Broadcasting Co.

CBS, Columbia Broadcasting System.

AWA, Amalgamated Wireless (A/sia), Ltd.

A/sia, Australasia.

AT&T, American Telephone and Telegraph Co.

FRC, Federal Radio Commission.

PTT, (Bureau des, or Regie des) Postes, des Telegraphs et des Telephones. The abbreviation PTT is often given, erroneously, as the call-sign of various French or French Colonial stations. It is the abbreviation for the governmental bureau or department which controls the station.

TSF, another common French abbreviation, which is translated by our words "wireless" or "radio." TSF is Telegraphie sans fil, or, telegraphy without wire.

M. S., (preceding the name of a ship), Motor Ship, or M. V., Motor Vessel.

H. M. S., His Majesty's Ship.

R. M. S., Royal Mail Ship.

AST, Atlantic Standard Time.

EST, Eastern Standard Time (EDST, "daylight time").

CST, Central Standard Time (CDST, "daylight time").

MST, Mountain Standard Time.

PST, Pacific Standard Time (PDST, "daylight time").

JST, Japanese Standard Time.

EAST, Eastern Australia Standard Time.

CET, Central European Time.

MEZ. The German abbreviation for CET.

LST, Local Standard Time.

GMT, Greenwich Mean Time.

GST, Greenwich Summer Time.

Greenwich Mean Time is the time system in which noon occurs at the time the sun passes over the meridian of Greenwich, England, and the standard time of nearly every locality in the world is calculated to agree with Greenwich in minutes and seconds, but to differ in hours by whole numbers. The true sun time of New York is 4 hours and 56 minutes slower than Greenwich, but the standard time differs by exactly five hours.

Publications which have readers in every part of the world, cater to only a minority of their subscribers when only Eastern Standard Time is given, as all their subscribers, except those living in the Eastern Time Zone, must convert the time to their own standard. A better way is to give time as RADEX does, in GMT and the five Standard times of North America.

GMT commences at midnight (0000) and continues through 24 hours to 11:59 pm (2359), without starting over at noon, as we do, thereby averting the necessity of using AM and PM. Thus, in GMT, 12:45 am is expressed 0045, and 12:45 pm. is 1245. 1 pm is 1300, or 13 hours past midnight. To convert GMT into EST, it is necessary only to subtract 5 hours and no minutes (500) from GMT, because EST is exactly 5 hours slower than GMT. Thus, 1400 GMT is 900 EST, or 9:00 am. If the result of this subtraction is greater than 1200, subtract 1200. Thus, 2100 GMT, minus 500 gives 1600, or 16 hours past midnight. Subtract the 12 hours of the morning (1200) and obtain 400, or 4:00

pm, EST.

Persons living in the Central time zone must subtract 600, as their time is 6 hours slower than Greenwich.

MST, subtract 7 hours.

PST, subtract 8 hours.

AST, subtract 4 hours.

Hawaii, subtract 10 hours and 30 minutes (1030). Thus, 2145 GMT, minus 1030 gives 1115, or 11:15 am,

Hawaiian Time.

Out in California some of our readers are hearing a Mexican station on 730 kcs. which may be XEBC back on the air. This station, located in Agua Caliente, B. C., was temporarily discontinued several months ago, according to information from the Mexican radio authorities.

Where to Get the DAY'S NEWS

Daily except Sunday unless otherwise noted.

- 1 Thursday only
- 2 Sunday only
- 3 Monday only
- 4 Except Monday
- 5 Except Saturday
- 6 Tuesday and Friday
- 7 Tues., Thurs. and Sat.

- 8 Mon., Wed., and Fri.
- 9 Saturday only
- a Including Sunday
- b Tuesday and Wednesday
- c Tues., Thurs. and Fri.
- d Thurs., Fri. and Sat.

ATLANTIC TIME

7:50 a.m.	12:15 p.m.	7:00 p.m.
CHSJ 1120	CKCW 1370	CENB 550
9:00 a.m.	12:30 p.m.	CJCB 1240
CKCW 1370	CHNC 1410	7:30 p.m.
9:30 a.m.	CJLS 1310	CFCY a 630
CHNS 930	1:00 p.m.	8:00 p.m.
10:30 a.m.	CJCB 1240	CJCB 1240
CJCB 1240	5:05 p.m.	11:45 p.m.
	CHSJ 1120	CFCY 630

EASTERN STANDARD TIME

7:00 a.m.	WPRO 630	WBOS 920	11:00 a.m.	WKJC 1200	WMBO 1310	WJR 750	4:00 p.m.
WBX 1200	WSPD 1340	9:30 a.m.	Red & Blue ²	WKOK 1210	12:45 p.m.	WNAC 1230	WHDL 1420
WJR 750	WTAG 580	KQV 1380	CMKM 1120	WLEU 1420	CKCV 1310 ³	WPHR 880	WKJC 1200
WNEL 1290	WTIC 1040	WDFD 1310	WGBI 1490	12:03 p.m.	CKTB 1200	1:45 p.m.	WNEL 1290
7:15 a.m.	WWVA 1160	WHDL 1420	WKJC 880	WWJ 920	WAAT 940	WICC 600	WSPA 920
WCMI 1310	8:05 a.m.	WIP 610	WMBG 1420	12:15 p.m.	WADC 1320	WTAR 780	WSPD 1340
WKZO 590	WEEI 590	WKBZ 1500	WNEL 1290	WBIG 1440	WCSH 940	2:00 p.m.	4:15 p.m.
WNAC 1230	8:15 a.m.	WNEW 1250	WOBZ 990	WBZA 990	WEAN 780	WCSC 1360	CKLV 1030
WNBX 1260	WASH 1270	9:45 a.m.	WCAP 1280	WDAS 1370	WGH 1310	WKJC 1200	WHEC1430 ⁵
WSAJ 1310 ¹	WBOS 920	WGBI 880	WDAS 1370	WHAM 1150	WMFD 1370	WKRC 550	WOL 1310
7:30 a.m.	WIP 610	9:55 a.m.	WTIC 1040 ²	WBPB 1420	WPAP 1420	WSPD 1340	4:30 p.m.
WAAT 940	WKZO 590	CKLW 1030	11:15 a.m.	WBKN 570	WTBO 800	2:15 p.m.	WQAN 880
WBT 1080	WNBC 1380	WOKO 1430	11:30 a.m.	WOL 1310	12:55 p.m.	WBT 1080	4:45 p.m.
WMBC 1420	WSAR 1450	10:00 a.m.	WAGM 1420	WSOC 1210	1:00 p.m.	KBV 1380	WAIM 1200
WSAI 1330	8:30 a.m.	Red & Blue	WBNS 1430	WEEI 590	CKCV 1310 ⁴	WINS 1180	5:00 p.m.
7:35 a.m.	WCAU 1170	Red & Blue	WBDO 580	WHEC 1430	KDKC 980	2:45 p.m.	WBOS 920
WICC 600	WEHC 1420	Red & Blue	WWSY 1500	WNBC 1380	WFBG 1300	WVAB 1410	WMBX 1260
7:45 a.m.	WFBC 1300	WCAU 1170	WQPI 1500	WOBZ 990	WFBG 1310	WVEU 830	WBZA 990
WBG 1440	WIK 1390	WDEL 1420	11:45 a.m.	WWVA 1160	WFBG 1310	2:55 p.m.	WKJC 1200
WFIL 560	WOPI 1500	WELL 1120	12:20 p.m.	WWSY 570	WJBK 1500	3:00 p.m.	WKRC 920
WINS 1180	8:45 a.m.	WBX 1200	11:55 a.m.	WBCM 1410	WJSV 1460	WBAL 1060	WKR 550
WKRC 550	WWEJ 1210	WKJC 1460	12:25 p.m.	WBJC 1200	WJVC 1430	WOR 710	WIC 710
WLW 700	8:55 a.m.	WNYC 810	CFRB 690	WMBR 1370	WCAE 1220	5:10 p.m.	WSPD 1340
WMAZ 1180	WEAN 780	WNEH 1310	12:30 p.m.	WNBH 1310	WPRO 630	WBRE 1310	5:15 p.m.
WSAZ 1190	9:00 a.m.	WNYC 810	WBEN 990	WPRO 630	WSPR 1450	WGBI 880	CMCF 815
7:55 a.m.	WAIM 1200	WOR 710 ²	12:35 p.m.	WBT 1080 ²	WSPR 1450	WGBI 880	WBIG 1440
WBNS 1430	WENB 900	WPAZ 1420	1:00 p.m.	WCAE 1220	WSPD 1340	WINS 1180	WBZ 990
WMBR 1370	WBIG 1440	WPTF 680	1:10 p.m.	WELL 1420	WTAG 580	WIP 610	WIFZ 990
8:00 a.m.	WCSC 1360	WSPA 920	1:15 p.m.	WCAE 1220	WTFD 1310	WTIC 1040	WJVC 1200
CFRB 690	WGAR 1450	10:15 a.m.	1:25 p.m.	WDAE 1220	WJMS 1370	1:10 p.m.	3:14 p.m.
CKLW 1030	WIS 1010	WKZO 590	1:30 p.m.	WFER 1270	WJAS 1290	WFD 1220	WFAS 1210 ¹
CMJH 1360	WJBK 1500	WLW 700	1:45 p.m.	WFIL 560	WKBC 1500	1:55 p.m.	3:15 p.m.
CMKM 1120	WKJC 1200	WSAR 1450	1:50 p.m.	WFMD 900	WKRC 550	WCAU 1170	WMAZ 1180
WAAB 1410	WLEU 1420	10:30 a.m.	1:55 p.m.	WGAR 1450	WKZO 590	WMAZ 1180	3:30 p.m.
WADC 1320	WMAZ 1180	WBX 1200	2:00 p.m.	WIBX 1200	WOR 710	WTFI 1450	WJR 750
WCKY 1490	WMBR 1370	WBIG 1440	2:05 p.m.	WINS 1180	WPAX 1210	1:20 p.m.	WMCA 570
WFBY 1270	WMFF 1310	WMAZ 1180	2:10 p.m.	WIOD 1300	WQAN 880	1:25 p.m.	3:45 p.m.
WKBN 570	WSOC 1210	CBS Sun.	2:15 p.m.	WIP 610	WSPA 920	1:30 p.m.	WSYR 570
WKJC 1200	9:15 a.m.	10:45 a.m.	2:20 p.m.	WIS 1010	CKLV 1030	2:30 p.m.	WFLA 620
WOR 710	WBRE 1310	WBT 1080	2:25 p.m.	WJW 1210	WBTM 1370	WGBI 880 ²	WICC 600

WHERE TO GET THE DAY'S NEWS

WNBC 1380 WOCL 1210 5:35 p.m. WWVA 1160 5:45 p.m. CRCO 880 WCMI 1310 WEHC 1420 WIOD 13077 WKOK 1210 WMAZ 1150 WNBH 1310 WBRE 1310 WBT 1080 5:55 p.m. CKLW 1080 WBNS 1430 WEEL 590 WJSY 1460 WMBR 1370 6:00 p.m. CJIC 890 KDKA 980 WAGM1420 WBEN 900 WCAE 1220	WCSC 1360 WGAR 1450 WIBX 1200 WIS 1010 WKJC 1200 WMBC 1420 WMMN 890 WNAZ 1230 WPRO 650 WSOC 1210 WSVA 550 6:05 p.m. WWJ 920 6:15 p.m. GHI 1310 WJAS 1290 WKBN 570 WPAA 1420 WRYA 1110 WSAR 1450 WSPD 1340 6:20 p.m. WWSW1500 ⁵ WMCMA 570 WEEL 590 6:30 p.m.	CBS Red & Blue CFBR 890 WFBC 1300 WFBR 1270 WFDF 1370 WFIL 560 WIAM 1150 WJBK 1500 WKBB 1500 WKRK 550 WNEW 1250 WOPI 1500 WOR 710 WSA11330 ⁸ WTAG 580 WTIC 1040 6:35 p.m. WEAN 780 WPTF 680 6:40 p.m. WID1300 ⁸ WIP 610 6:45 p.m. CFCH 930 WDAE 1220	WGBI 880 WIMS 1310 WMBO 1180 6:55 p.m. WCKY 1490 WJSV 1460 WOKO 1430 7:00 p.m. WGBI 880 ⁶ 7:55 p.m. WAAB 1410 WKJC 1200 WLBZ 620 WTBO 800 WRDO 1370 7:15 p.m. WBBR 1300 WBG 1440 WBRE 1310 WBRB 1310 WIBX 1200 WMGP 1200 WNBK 1250 WNYC 810 WSYB 1500 WTFI 1450	7:30 p.m. WFAS 1210 ⁹ WMAZ 1180 7:45 p.m. WELL 1420 WEEI 590 ² WFBC 1300 WGBI 880 ⁶ 7:55 p.m. WBNS 1430 8:00 p.m. WKJC 1200 WVVA 1160 8:10 p.m. WIBM 1370 WIP 610 8:30 p.m. CKCO 1010 WCKY1490 ² WFDF 1310 9:00 p.m. CKOC 1120 CMCD 960 WFBC 1300 WGBI 880 WJBK 1500	WKJC 1200 WTAR 780 9:15 p.m. WOPI 1500 WBT 1080 ² 9:30 p.m. CMJK 780 ⁵ WBTM 1370 WEXL 1310 WMBR 1370 WNGA 570 9:45 p.m. WAAB 1410 WPAA 1420 10:00 p.m. WBRB 1310 WCKY 1490 WCSC 1360 WGBI 880 WIS 1010 WJR 750 WKBZ 1500 WKJC 1200 WKRK 550 WLV 700	WNBH 1310 WNEI 1290 10:05 p.m. WBT 1080 WGBI 1450 WNAZ 1230 WOR 710 WPRO 630 WTAG 580 WTIC 1040 11:05 p.m. WWEI 590 11:10 p.m. Blue Net CBS Sun. 11:20 p.m. WICC 600 11:30 p.m. Red Net ² WHK 1390 WOR 710 WTIC 1040 ² Midnt. WCAU 1170 WCKY 1490	WHEC 1430 WIBX 1200 WJAS 1290 WKJC 1200 WLV 700 ⁵ WNAZ 1230 WOR 710 WPRO 630 WTAG 580 WTIC 1040 11:05 p.m. WEEI 590 11:10 p.m. Blue Net CBS Sun. 11:20 p.m. WICC 600 11:30 p.m. Red Net ² WHK 1390 WOR 710 WTIC 1040 ² Midnt. WCAU 1170 WCKY 1490
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CENTRAL STANDARD TIME

5:30 a.m. KFNF 890 6:15 a.m. KFEG 680 WBAP 800 WFAA 800 6:30 a.m. KASA 1210 KMBC 950 WHO 1000 6:45 a.m. KWBG 1420 7:00 a.m. KABR 1420 KFJZ 1370 KRNT 1320 WCCO 810 WIBW 580 WMT 600 WTAD 900 WTCN 1250 KSO 1430 7:05 a.m. WSGN 1310 7:15 a.m. KGGF 1010 KPAC 1260 WHO 1000 WKEU 1500 7:20 a.m. WHB 860 WOI 640 7:30 a.m. KFRO 1370 KGBZ 930 KMBC 950 KSTP 1460 KWTO 560 WIBA 1250 WDSU 1250 XEFO 940 7:40 a.m. KFEQ 680 7:45 a.m. KRGV 1260 KVOO 1140 WNRB 1430 WOAI 1190 7:50 a.m. KABR 1420	KFNF 890 8:00 a.m. KARK 890 KFAB 770 KFYO 1310 KGPW 1310 WDAY 940 WFBN 1230 WJLD 1130 WJTL 1370 WKBB 1500 WKBH 1380 WMBH 1420 WMLN 1210 WMTV 1500 WTM 1500 KFJM 1370 KGFK 1500 WAAW 660 KASA 1210 ² 8:30 a.m. KELM 1500 KSPD 560 KSTP 1460 KWBG 1420 WCCO 810 WGPC 1420 WJBO 1420 WSFA 1410 WTAQ 1330 8:45 a.m. KNOW 1500 WSGN 1310 9:00 a.m. WJTL 1370 Red & Blue CBS KGCA 1270 KGBY 1340 WDAF 610 WGST 890 WHBU 1210 WHBY 1200 WIND 560 WKUE 1500 WNOX 560 WOWO 1160 WTMY 620 WTMV 1500 WIND 560 ²	9:05 a.m. WILL 890 WRTN 1370 9:15 a.m. KARK 890 KFAB 770 KFEG 680 KCAP 1260 KSTP 1460 WLRB 1310 WMBD 1440 9:30 a.m. KFIZ 1420 KFYO 1310 KTVB 1450 KTVW 560 WJBC 1200 WJLD 1130 WKBB 1500 WMT 600 WTRC 1310 9:45 a.m. KMBC 950 WJBO 1420 KDLR 1210 10:00 a.m. KFBZ 1210 KCLN 1290 KVOS 1210 WCCO 810 WGST 890 WHBU 1210 WIND 560 WJTL 1370 WMBH 1420 WROK 1410 WTAX 1210 WMTV 1500 10:05 a.m. KELM 1240 10:15 a.m. CJGX 630 WOBW 1310 WJDS 1280 WJMS 1420 10:25 a.m. WTCN 1250 10:30 a.m. KFOR 1210	KGDE 1200 WBEO 1310 WIND 560 ² 10:40 a.m. KFEQ 680 10:45 a.m. WKEU 1500 11:00 a.m. KFJZ 1370 KFNF 890 KSTP 1460 WHBU 1210 WSGN 1310 WMTV 1500 11:15 a.m. WDFA 610 11:25 a.m. WDAY 940 11:30 a.m. KFPW 1210 KRNT 1320 KWBG 1420 WMT 600 KSO 1430 11:45 a.m. KABR 1420 KASA 1210 KFAB 770 KGBZ 1500 KVOO 1140 WBAA 890 WCCO 810 WDSU 1250 WJMS 1420 12:45 p.m. KFIZ 1420 KFRO 1370 KFYO 1310 KLPB 1240 KRGV 1260 KSTP 1460 WBAA 890 ² WBOB 1310 WCCO 810 WHO 1000 WKBH 1380 WLBZ 1310 WMLN 1120 WNOX 1260	WJTL 1370 WMBD 1440 WOC 1370 WSIX 1210 WTMV 1500 WTRC 1310 XEWZ 1150 12:15 p.m. KGGF 1010 WBRB 930 WCLB 1310 WFBM 1230 WHBY 1200 WKBW 1500 WROK 1410 WOWO 1160 12:20 p.m. KPNF 890 WRTN 1370 WTAW 1320 12:25 p.m. KDLR 1210 12:30 p.m. KFEQ 680 KFJM 1370 KWTO 560 WAGF 1370 WIBA 1280 WJAG 1060 WKBH1380 ² WKEU 1500 WNRB 1430 12:35 p.m. WJMS 1420 12:45 p.m. KFTM 1200 KFIZ 1420 KFRO 1370 KFYO 1310 KLPB 1240 KRGV 1260 KSTP 1460 WBAA 890 ² WBOB 1310 WCCO 810 WHO 1000 WKBH 1380 WLBZ 1310 WMLN 1120 WNOX 560	WSFA 1410 1:00 p.m. CKY 960 KCRK 1360 KFOR 1210 KGKL 1370 KENT 1320 WCSB 1420 WDOB 1280 WHBU 1210 WMT 600 WSM 650 WTAX 1210 WTMJ 620 WTMV 1500 1:15 p.m. KPAC 1260 KTBS 1450 KWTO 560 ² 1:30 p.m. WLBZ 1310 WMBH 1420 1:45 p.m. KFYD 780 KGGF 680 WHEF 1500 2:00 p.m. WHBU 1210 WJLD 1130 WJTL 1370 WTMV 1500 2:15 p.m. KWBG 1420 WBAP 800 WFAA 800 WKEU 1500 WNAD1010 ⁶ 2:20 p.m. WCCO 810 WTCN 1250 2:30 p.m. KSTP 1460 KVOS 1210 WDAY 940 WJLD 1130 WJMS 1420 3:00 p.m. KARK 890 KFBZ 1200 WBU 1210	WISN 1120 WLBC 1310 WSGN 1310 WTMV 1500 3:05 p.m. KFFN 890 3:15 p.m. WGST 890 3:30 p.m. KSOO 1110 KSTP 1460 WVAB 950 WHO 1000 3:45 p.m. KABR 1420 KOIL 1260 WKEU 1500 WTAX 1210 4:00 p.m. KBMT 1200 WHBU 1210 WTMV 1500 4:15 p.m. KWTO 560 WHB 860 WJAG 1060 4:30 p.m. KFAB 770 KGEX 630 KMBC 950 KSTP 1460 WADF 610 WOC 1370 WTCJ 620 5:00 p.m. KFEQ 680 KFFZ 1420 KFXR 1310 WJBO 1420 WMA1480 ⁵ KSOU 1110 WHBU 1210 WVAB 950 WVTV 1500 1000 ⁹ WIRE 1400 WJLD 1130 WJMS 1420 WMBD 1440 WMI 640 WOM 650 WTM 1250 WTCN 1250	WTMV 1500 5:15 p.m. WCCO 810 WMO 780 5:20 p.m. KGGF 1010 5:30 p.m. 890 Red & Blue KASA 1210 ² KFAB 770 KPAC 1260 WOAI 1190 5:35 p.m. KVOO 1140 WENR 870 5:40 p.m. CKY 960 5:45 p.m. KFYO 1310 WDAY 940 WDSU 1250 WFBM 1230 WKEU 1500 WNOX 560 WTRC 1310 5:50 p.m. KSTP 1460 KJPM 1370 5:55 p.m. WMT 600 6:00 p.m. KARK 890 KFEQ 680 KRWTO 560 ² KWTO 560 WJBO 1420 WTAX 1210 WVAB 950 WVTV 1500 6:10 p.m. KLPB 1240 6:15 p.m. KFNF 890 KFRO 1370 KFVS 630 KFVS 1210 6:30 p.m. KFPW 1210 KFVS 1210 KRVB 1370 KRVB 630 KRVB 630
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WHERE TO GET THE DAY'S NEWS

WMFN 1210 WGL 1370 6:30 p.m. KASA 1210 KDLR 1210 KFOR 1210 KOIL 1260 KWKC 1370 WDOD 1280 WHO 1000 WNRB 1430 WSGN 1310 6:45 p.m. KRGV 1260 WKBH 1380 WSFA 1410	6:55 p.m. KGDE 1200 7:00 p.m. KGHK 1500 KWBG 1420 WAVE 940 WBOW 1310 WJTL 1370 WKBB 1500 WMBH 1420 WNAX 570 WTMV 1500 7:15 p.m. KPNF 890 WJMS 1420	7:30 p.m. WIND 560 7:45 p.m. WRTN 1370 WTAD 900 8:00 p.m. KARK 890 KFIZ 1420 KVOO 1140 ² WGN 720 WHBU 1210 WTMV 1500 XENT 910 ² 8:15 p.m. KGBX 1230	8:30 p.m. KFJZ 1370 KFOR 1210 WIND 560 ² WEBQ 1210 8:45 p.m. KFNF 890 KGKB 1500 WSGN 1310 9:00 p.m. KFYO 1310 KGKL 1370 KMBC 950 KRNT 1320 KSO 1430 KTBS 1450	WHBY 1200 WJTL 1370 WMT 600 WNBR 1430 WNOX 560 WSFA 1410 WTCN 1250 9:15 p.m. KFPW 1210 KSD 550 WFBM 1230 9:30 p.m. KRNT 1320 ² KRNT 1320 WDOD 1280 WGBF 630 ^c	WIBW 580 WOAI 1190 ² 9:45 p.m. WROK 1410 10:00 p.m. KPRC 920 KVOO 1140 ^d WDAY 940 WENR 870 ⁵ WGST 890 WHBU 1210 WIBA 1280 WIRE 1400 WMBD 1440 WNBR 1430 WOAI 1190	WTMJ 620 WTMV 1500 XENT 910 XEWZ 1150 10:05 p.m. WCCO 810 10:10 p.m. Blue Net 10:15 p.m. CBS ² KSTP 1460 WGBF 630 ⁹ WHO 1000 WTCN 1250	10:30 p.m. Red Net ² WHO 1000 ⁹ WRTN 1370 10:45 p.m. WIND 560 11:00 p.m. KMBC 950 WHBU 1210 WJTL 1370 WTMV 1500 XENT 910 Midn't. KSTP 1460
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MOUNTAIN STANDARD TIME

6:00 a.m. KPFA 880 7:45 a.m. KGGY 1500 KLZ 560 8:00 a.m. Red & Blue ² CBS Net ² CHWC 1010 KFEL 920 KFOR 1270 8:15 a.m. CFRN 1260 KGVO 1260	8:30 a.m. CBS Net ² CHAB 1200 CKBI 1210 9:15 a.m. KDYL 1290 KICA 1370 KIUL 1210 KIUP 1370 9:30 a.m. CKCK 1010 KOY 1390 10:00 a.m. CFRN 1260 KGVO 1260 10:30 a.m. KDFN 1440	11:00 a.m. XETB 1310 11:45 a.m. KICA 1370 KLZ 560 Noon KFEL 920 KSTAR 620 12:15 p.m. KFB 1280 KGHL 780 KGVO 1260 KGR 1340 KIUP 1370 XEAF 990	12:20 p.m. KOY 1390 12:25 p.m. KDFN 1440 12:30 p.m. KSL 1130 KFKA 880 KGEZ 1310 1:00 p.m. CFCN 1030 KFOR 1270 KFEL 920 KICA 1370 2:00 p.m. KICA 1370 2:30 p.m. KDYL 1290 KSN 1200	3:15 p.m. CHCK 1010 3:30 p.m. KIUL 1210 KSL 1130 3:45 p.m. KLZ 560 4:00 p.m. CHWC 1010 KFW 1010 KFEL 920 KICA 1370 4:30 p.m. Red & Blue CBS Net KIDW 1420	5:00 p.m. KFOR 1270 5:30 p.m. KDFN 1440 6:00 p.m. KFKA 880 KOY 1390 6:15 p.m. CHAB 1200 KGEZ 1310 KGVO 1260 6:30 p.m. KGCCX1310 ⁹ KDFN 1440 6:45 p.m. XEAF 990	7:00 p.m. KFEL 920 8:00 p.m. CHWC 1010 CJCJ 690 KFOR 1270 XEFV 1210 8:15 p.m. KICA 1370 KLZ 560 8:30 p.m. KDFN 1440 8:45 p.m. KOY 1390 XEAF 990 9:00 p.m. KTAR 620	CJRM 540 KTSM 1310 KFOR 1270 9:15 p.m. Blue Net ² CBS Net ² 9:30 p.m. Red Net ² 10:00 p.m. CFCN 1030 KDYL 1290 KGHL 780 KOY 1390 11:00 p.m. KTAR 620
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PACIFIC STANDARD TIME

6:00 a.m. KJBS 1070 KRSC 1120 6:30 a.m. KOIN 940 6:45 a.m. KRRC 1420 7:00 a.m. CBS Net Red & Blue ² KGDM 1100 KQW 1010 KRSC 1120 KUJ 1370	7:15 a.m. KERN 1370 KFBK 1490 KMJ 580 7:30 a.m. CBS Net ² 7:45 a.m. KFPY 890 KRKD 1120 8:00 a.m. KIT 1310 KRSC 1120 KUJ 1370 8:15 a.m. KROW 930	8:30 p.m. CRCV 1100 KGFJ 1200 KXRO 1310 8:45 a.m. KOIN 940 KWJJ 1040 KPRC 610 KFXM 1210 KOOS 1390 KRSC 1120 KWG 1200 9:00 a.m. KFCR 610 KFI 640 KFOX 1250 9:15 a.m. KPQ 1500 10:00 a.m. KJBS 1070 KQW 1010 KUJ 1370	KVOS 1200 KGDM 1100 9:30 a.m. KJR 970 KMPC 710 9:45 a.m. KFI 640 KFOX 1250 9:51 a.m. KPQ 1500 10:00 a.m. KJBS 1070 KQW 1010 KUJ 1370	10:15 a.m. KELW 780 10:20 a.m. KLX 880 11:00 a.m. KRSC 1120 11:15 a.m. KOIN 940 11:30 a.m. CJAT 910 KRKD 1120 KGHF 1200 Noon KFJR 1300	KFRC 610 KJBS 1070 KQW 1010 KROW 930 KRSC 1120 KUJ 1370 12:05 p.m. KOAC 550 12:10 p.m. CHWK 780 CKWX 1010 12:15 p.m. KECA 1430 KHSL 950 KOL 1270	KREG 1500 KVI 570 KVOS 1200 WEXAI 1550 12:20 p.m. KIT 1310 12:30 p.m. KFPY 890 KIEM 1210 KOOS 1390 KPQ 1500 KRRC 1420 KTRB 740 KXRO 1310	12:45 p.m. CKOV 630 KFXM 1210 1:00 p.m. KGJF 1200 KOIN 940 KRSC 1120 KJBS 1070 ² 1:30 p.m. KMPC 710 1:45 p.m. CHWK 780 KRRC 1420 KRKD 1120 2:00 p.m. KRSC 1120
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WHAT'S ON THE AIR TONIGHT

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

COLUMBIA (C)	
Call	Dial

NATIONAL, Red (R)	
Call	Dial

NATIONAL, Blue (B)	
Call	Dial

TIME: ED Eastern Daylight; E Eastern; C Central; M Mountain
 For Pacific Time subtract one hour from Mountain.

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

While these programs are correct at the time of going to press, changes are made from time to time.

Due to change to Daylight Saving Time on April 26, some of the stations listed will be unable to carry particular features.

MONDAY

ED-5:45 p.m., E-4:45; C-3:45; M-2:45 C — The Goldbergs
KFH KGNO KMBC KRLL KRNT KSCJ KTRH K TSA KVOR KWKH WAAB WABC WACO WBNS WBRC WBT WCAO WCCO WHAS WIBW WJAZ WJZR WKBW WKRC WMBD WOC WREX

ED-6:00 p.m., E-5:00, C-4:00, M-3:00 C — Buck Rogers 25th Century
KFAB KMBC KMOX KRLL KRNT WAAB WABC WBBM WCAO WCAU WCCO WFBL WHAS WIK WJAS WJR WJSV WKBW WKRC WOKO

ED-6:15 p.m., E-5:15, C-4:15, M-3:15 C — Bobby Benson — Sunny Jim
WAAB WABC WCAU WDRC WEAN WFBL WGR WHCC WOKO

ED-6:45 p.m., E-5:45, C-4:45, M-3:45 C — Renfrew of the Mounted
KFAB KFH KLRA KMBC KMOX KONA KRLL KRNT KSCJ KTUL KWKH WABC WADC WBBM WBNS WCCO WDRC WFBL WHCC WIBX WICC WISN WJSV WKBW WKBW WMAS WMBG WNAC WOC WREX WSMK WSPD WWA

B — Lowell Thomas
CRCT KDKA WBAL WBZ WBZA WFLA WIOD WJAX WJZ WLW WMAL WOOD WRVA WSYR WTAM WXYZ

ED-7:00 p.m., E-6:00, C-5:00, M-4:00 C — Myrt and Marge
WABC WADC WBT WCAO WCAU WDAE WDBO WDRC WEAN WFBL WGR WHK WJAS WJR WJSV WKRC WNAC WOKO WQAM WSPD WTCC WWA

R — Amos 'n' Andy
CRCT KSD KYW WBN WCAE WOSH WFAE WEEI WFBZ WGY WJAZ WLW WRC WTAG WTAM WTIC WWJ

ED-7:15 p.m., E-6:15, C-5:15, M-4:15 C — Ted Husing and Charioteers
CFRB KDB KERN KFAB KFBK KFPY KFCR KGB KHJ KLZ KMJ KOIN KOL KSL KVI KWG WABC WBBM WCAO WCAU WCCO WEAN WFBL WFBM WGR WJAS WJSV WKRC WOKO WSNAC WOKO

R — Uncle Ezra's Radio Station
KYW WBN WCAE WOSH WDAF WFAE WEEI WFBZ WGY WHO WIRE WJAR WMAQ WOW WRC WSAI WTAG WTAM

ED-7:30 p.m., E-6:30, C-5:30, M-4:30 C — Singing Sam
KFAB KMOX KRNT WABC WADC WBBM WCAO WCAU WCCO WEAN WFBL WFBM WGR WHAS WIK WJAS WJR WJSV WKRC WNAC WOKO WSPD

B — Lum and Abner
WBZ WBZA WENR WGAR WJZ WLW WSYR

ED-7:45 p.m., E-6:45, C-5:45, M-4:45 C — Boake Carter
KMBC KMOX KOMA KRLL WABC WBBM WBT WCAO WCAU WCCO WDRC WEAN WFBL WGR WHAS WHK WJAS WJR WJSV WKRC WNAC

C — Renfrew of the Mounted
KDB KERN KFBK KFPY KFCR KGB KHJ KMJ KOIN KOL KSL KVI KWG

ED-8:00 p.m., E-7:00, C-6:00, M-5:00 C — Guy Lombardo and Orchestra
KLRA KWKH WABC WBG WBT WCAI WCAU WCHS WCSC WDBJ WDNC WDOD WDRC WEAN WFCB WFBL WGR WHCC WHP WIBX WICC WJAS WJSV WLAC WLBZ WMAS WMBG WNAC WNBFWNOX WOKO WORO WPG WREC WJSJ WWA WVVVA

R — Hammerstein's Music Hall
KSD KYW WBN WCAE WOSH WDAF WFAE WEEI WFBZ WGY WHO WHIO WJAR WMAQ WOW WRC WSAI WTAG WTAM WTIC WWJ

B — Fibber McGee and Molly
KDKA KDYL KFI KFSD KFPY KGW KHQ KOA KOIL KOMO KPO KPRC KSO KSTP KTBS KWY WAVE WBAL WBZ WBZA WCKY WDAY WEBC WFAA WFIL WGAR WHAM WIBA WIRE WJDX WJZ WKY WLS WMAL WMC WMT WQAI WREN WSB WSM WSMB WSYR WTMJ WXYZ

ED-8:30 p.m., E-7:30, C-6:30, M-5:30 C — Pick and Pat
KFAB KMBC KMOX KRNT KSCJ WABC WADC WBBM WCAO WCAU WDRC WEAN WFBL WFBM WGR WGST WHAS WHCC WHK WJAS WJR WJSV WKRC WMAS WNAC WOKO WORO WSPD

R — Voice of Firestone
CFRC CRCT KFPY KFCR KSD KSTP KTBS KVOO KYW WAVE WBN WCAE WOSH WDAF WDAY WFAE WEBC WEEI WFAA WFBZ WFLA WGY WHO WHIO WIBA WIOD WIRE WIS WJAR WJAX WJDX WKY WMAQ WMC WQAI WQW WPTF WRC WRVA WSB WSM WSMB WSOC WTAG WTAM WTR WTIC WTMJ WWJ WNNC

B — Evening in Paris
KDKA KOIL KSO KWK WBAL WBZ WBZA WCKY WFIL WGAR WHAM WJZ WLS WMAL WMT WREN WSYR WXYZ

ED-9:00 p.m., E-8:00, C-7:00, M-6:00 C — Lux Radio Theatre
CFRB CKAC KDB KERN KFAB

KFBK KFPY KFCR KGB KHJ KLRA KLZ KMBC KMJ KMOX KOIN KOL KOMA KRLL KRNT KSL KTRH K TSA KTUL KVI KWG WABC WADC WBBM WBNS WBRC WBT WCAO WCAU WCCO WDAE WDBJ WDRC WEAN WFBL WFBM WGST WHAS WHCC WHK WIK WISN WJAS WJR WJSV WKBW WKRC WLAC WNAC WNAQ WOKO WORC WQAM WREC WSPD WWL

R — A. & P. Gypsies
KSD KYW WBN WCAE WOSH WDAF WFAE WEEI WGY WHO WHIO WIRE WJAR WMAQ WOW WRC WSAI WTAG WTAM WTIC WWJ

B — Sinclair Greater Minstrels
KDKA KDYL KFPY KOA KOIL KFCR KSO KSTP KTBS KTBS KVOO KWK WBAL WBZ WBZA WDAY WEBC WFAA WFLA WGAR WHAM WIBA WIOD WIS WJAX WJDX WJZ WKY WLS WLW WMAL WMC WMT WQAI WPTF WREN WRVA WSB WSM WSMB WSOX WSN WSYR WTAR WTMJ WNNC WXYZ

ED-9:30 p.m., E-8:30, C-7:30, M-6:30 R — Sigmund Romberg; Barrymore
KDYL KFI KFYR KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTBS KTBS KVOO KYW WBN WCAE WOSH WDAF WDAY WFAE WHEC WEEI WFAA WFBZ WGY WHO WIBA WJAR WKY WLW WMAQ WQAI WOW WRC WTAG WTAM WTIC WTMJ WWJ

B — A Tale of Today
KDKA KOIL KSO KWK WBAL WBZ WBZA WCKY WENR WFIL WGAR WHAM WJZ WMAL WMT WREN WSYR WXYZ

ED-10:00 p.m., E-9:00, C-8:00, M-7:00 R — Contented Program
CFRC CRCT KDYL KFI KGW KHQ KOA KOMO KPO KPRC KSD KYW WBN WCAE WOSH WDAF WFAE WEEI WFBZ WFLA WGY WHO WIOD WIS WJAR WJAX WKY WMAQ WMC WQAI WOW WPTF WRC WRVA WSAI WSB WSM WTAG WTAM WTAR WTIC WWJ WNNC

ED-10:30 p.m., E-9:30, C-8:30, M-7:30 C — The March of Time
KALE KDB KERN KFAB KFBK KFPY KFCR KGB KHJ KLZ KMJ KMOX KOIN KOL KRLL KSL KVI KWG WABC WADC WBBM WBT WCAO WCAU WCCO WDAE WDBO WDRC WEAN WFBL WFBM WGR WGST WHAS WHK WJAS WJR WJSV WKRC WNAC WOKO WQAM WSPD WWL

ED-10:45 p.m., E-9:45, C-8:45, M-7:45 C — Public Opinion
CFRB CKAC KFH KFPY KLRA

MONDAY (Continued)

KRNT KSCJ KTRH K TSA KVOR
KWKH WAAB WABC WACO WADC
WALA WBIG WBNS WBRC WBT
WCAO WCAU WDAE WDBJ WDBO
WDNC WDDO WDRC WFBL WFBM
WFEA WGR WHAS WHEC WHP
WIBW WIBX WISN WJAS WJSV
WKBN WKRC WLAC WLHZ WNAS
WMBD WMBR WMNN WNAX
WNOX WOC WOKO WORC WPG
WQAM WREC WSBT WSJS WSMK
WSPD WTOC

ED-11:00 p.m., E-10:00, C-9:00, M-8:00
C — Dance Orchestra
CFRB CKAC WAAB WABC WADC
WCAO WCAU WDBO WFBL WFEA
WHEC WHK WIBX WJAS WKBN
WKBW WLHZ WNAS WOKO WORC
WPG WSBT WSPD

C — Myrt and Marge
KDB KERN KFAB KFBK KFPY
KFRC KGB KHJ KLRA KLZ KMBC
KMJ KMOX KOIN KOL KOMA
KRLD KSL KTRH KVI KWG WALA
WBBM WBRB WOCO WFBM WGST
WHAS WLAC WREC WSFA WWL

R — Amos 'n' Andy
KDYL KFI KGW KHQ KOA KOMO
KPO KPRC KSD KTHS WBAF
WDAF WHO WKY WMAQ WMO
WOAI WOW WSB WSM WSNB

ED-11:15 p.m., E-10:15, C-9:15, M-8:15
C — Singing Sam
KDB KERN KFBK KFPY KPRC
KGB KHJ KLZ KMJ KOIN KOL
KSL KVI KWG

ED-11:30 p.m., E-10:30, C-9:30, M-8:30
C — Dance Orchestra
CFRB CKAC KLRA WAAB WABC
WADC WALA WBNS WBRC WBT
WCAO WCAU WDAE WDBJ WDBO
WDNC WDDO WDRC WEAN WFBL
WFBM WFEA WGST WHAS WHEC
WHP WIBX WICG WJAS WJR
WJSV WKBN WKBW WKRC WLAC
WLHZ WNAS WMBG WMBR WNOX
WOKO WORC WQAM WREC WSBT
WSJS WSMK WSPD WTOC

C — Pick and Pat
KDB KERN KFBK KFPY KFRC
KGB KHJ KLZ KMJ KOIN KOL
KSL KVI KWG

R — Voice of Firestone
KDYL KFI KPSD KGHL KGIR
KGU KGW KHQ KOA KOMO KPO
KTRH

TUESDAY

ED-5:45 p.m., E-4:45, C-3:45, M-2:45
C — The Goldbergs, See Monday

ED-6:00 p.m., E-5:00, C-4:00, M-3:00
C — Benay Venuta, Songs
KPH KGKO KLRA KLZ KMBC
KOMA KRLD KRNT KSCJ KTRH
K TSA KVR KWKH WABC WACO
WALA WBNS WBIG WBRC WCAO
WCAU WDAE WDBJ WDBO WDNC
WDDO WDRC WEAN WESG WFBL
WFEA WGR WGST WHEC WHP
WIBX WJR WKBN WLAC WLZ
WNAS WMBD WMBG WMBR
WNOX WOC WOKO WORC WQAM
WREC WSBT WSJS WSMK WSPD
WTOC WWL

ED-6:15 p.m., E-5:15, C-4:15, M-3:15
C — News of Youth
KMOX WAAB WABC WADC WALA
WBBM WBNS WBRC WCAO WCAU
WDBO WDRC WEAN WFBL WFEA
WHP WICG WKBN WLZB WNAS
WMBG WMBR WOKO WORC WSBT
WSFA WWVA

ED-6:45 p.m., E-5:45, C-4:45, M-3:45
B — Lowell Thomas, See Monday
C — Renfrew of the Mounted
KFAB KPH KLRA KMBC KMOX
KOMA KRLD KRNT KSCJ KTUL
KWKH WAAB WADC WBBM
WBNS WOCO WDRC WFBM WHEC
WIBX WICG WISN WJSV WKBN
WKBW WNAS WMBG WNAC
WNBH WREC WSMK WSPD WWVA

ED-7:00 p.m., E-6:00, C-5:00, M-4:00
C — Myrt and Marge, See Monday
R — Amos 'n' Andy, See Monday
B — Easy Aces
KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO KSO KWK WBAL
WBZ WBZA WCKY WENR WFIL
WGAR WHAM WJZ WMAL WMT
WSYR WXYZ

ED-7:15 p.m., E-6:15, C-5:15, M-4:15
C — Krueger Musical Toast
WABC WBIG WBT WDAE WDBJ
WDBO WDNC WDDO WDRC WEAN
WFBL WFEA WGR WGST WIBX
WICG WJSV WLZB WNAS WMBG
WMBR WNAC WNBFWNOX WOKO
WORC WQAM WTOC

R — Human Side of the News
KSD KYW WBEN WCAE WCKY
WCSI WDAF WDAF WEEI WFBR
WGY WHIO WIRE WJAR WMAQ
WOW WRC WTAG WTAM WTIC
WWJ

ED-7:30 p.m., E-6:30, C-5:30, M-4:30
C — Kate Smith
KFAB KMBC KMOX KRLD KRNT
KTRH WABC WADC WBBM WBS
WBRC WBT WCAO WCAU WCO
WDAE WDRC WEAN WFBL WFBM
WGR WGST WHAS WHK WISN
WJAS WJR WJSV WKBN WKRC
WLZB WNAS WMBG WMBR WNAC
WOKO WWL WWVA

B — Lum and Abner, See Monday

ED-7:45 p.m., E-6:45, C-5:45, M-4:45
C — Boake Carter, See Monday

C — Renfrew of the Mounted
KDB KERN KFBK KFPY KPRC
KGB KHJ KMJ KOIN KOL KSL
KVI KWG

ED-8:00 p.m., E-7:00, C-6:00, M-5:00
C — Frank Munn; Lucy Monroe
KFAB KMBC KMOX KRNT WABC
WADC WBBM WCAO WCAU WDRC
WEAN WFBL WFBM WGR WHAS
WHK WJAS WJR WJSV WKRC
WNAC WOKO WSPD

R — Leo Reisman and Orchestra
KFYR KPRC KSD KSTP KTBS
KVOO KYW WAVE WBAF WBEN
WCAE WCSH WDAF WDAY WEAF
WIBC WEEI WFBR WFLA WGY
WHIO WHA WIOD WIRE WIS
WJAR WJAX WJDX WKY WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSB WSM WSMB WWSQ
WTAG WTAM WTAR WTIC WTMJ
WWJ WYWC

B — Eno Crime Clues
KDKA KOIL KSO WBAL WBZ
WBZA WFIL WGR WHAM WJZ
WLS WLW WMAL WMT WREN
WYR WXYZ

ED-8:30 p.m., E-7:30, C-6:30, M-5:30
C — Russ Morgan; Ken Murray
CFRB KDB KERN KFAB KFBK
KFPY KPRC KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOL
KOMA KRLD KRNT KSL KTRH
K TSA KTUL KVI KWG WABC
WADC WBBM WBNS WDAE WDBJ
WCAO WCAU WCOO WDAE WDBJ
WDRC WEAN WFBL WFBM WGR
WGST WHAS WHEC WHK WICC
WISN WJAS WJR WJSV WKRO
WLAC WNAS WNAX WOKO WORO
WQAM WREC WSPD WWL

R — Wayne King and Orchestra
KFYR KPRC KSD KSTP KTBS
KVOO KYW WAVE WBAF WBEN
WCAE WCSH WDAF WDAY WEAF
WEEI WGY WHO WIBA WIRE
WJAR WJDX WKY WMAQ WMC
WMOI WOW WRC WSAI WSB WSMB
WTAG WTAM WTAR WTIC WTMJ
WWJ

B — Edgar Guest, Welcome Valley
KDKA KOIL KSO KWK WBAL WBZ
WBZA WFIL WGR WHAM WJZ
WLS WLW WMAL WMT WREN
WYR WXYZ

ED-9:00 p.m., E-8:00, C-7:00, M-6:00
C — Walter O'Keefe; Glen Gray
KFAB KHJ KGKO KLRA KMBC
KMOX KOMA KRLD KRNT KSCJ
KTRH K TSA KTUL KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WCOO WDAE WDBJ WDBO WDNC
WDDO WDRC WEAN WFBL WFBM
WFEA WGST WHAS WHEC WHK
WHP WIBW WIBX WICG WJAS
WJR WJSV WKBN WKBW WKRC
WLAC WLZB WNAS WMBD WMBG
WMBR WNAS WNAX WNOX WOKO
WORC WOWO WPG WQAM WRBC
WSBT WSFA WSJS WSPD WTOC
WWL

R — Vox Pop; Sidewalk Interviews
KSD KYW WBEN WCAE WCKY
WCSH WDAF WEAF WEEI WFBR
WGY WHIO WHIO WIRE WJAR
WMAQ WOW WRC WTAG WTAM
WTIC WWJ

B — Ben Bernie and Orchestra
KDKA KOIL KPRC KSO KTBS
KTHS KVOO KWK WBAL WBAF
WBZ WBZA WFIL WFLA WGR
WHAM WIOD WIS WJAX WJZ WKY
WLS WLW WMAL WMT WOAI
WPTF WREN WRVA WSOE WSYR
WTAR WYWC WXYZ

ED-9:30 p.m., E-8:30, C-7:30, M-6:30
C — Fred Waring's Pennsylvanians
CFRB CKAC KFAB KPH KGKO
KLRA KLZ KMBC KMOX KOH
KOMA KRLD KSCJ KSL KTRH
K TSA KTUL KVR KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WCOO WCOA WCSG WDAE WDBJ
WDBO WDNC WDDO WDRC WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBH WKBN WKBW WKRC
WLAC WLZB WNAS WMBD WMBR
WNAC WNAX WNBFWNOX WOC

TUESDAY (Continued)

WOKO WORC WOWO WPG WQAM
WREC WSBT WSFA WSJS WSPD
WTOC WWL

R — Texaco Fire Chief

KDYL KFI KFSD KFYR KGHL
KGIR KGW KHQ KOA KOMO KPO
KPRC KSD KSTP KTAR KTBS
KTHS KVOO KYW WAVE WBAP
WBEN WCAE WCEH WDAF WDAY
WEAF WEBC WEEI WFRB WLFA
WGY WHO WHIO WIBA WIOD
WIRE WIS WJAR WJAX WJDX
WKY WLW WMAQ WMC WQAI
WOW WPTF WRC WRVA WSB
WSM WSMB WSOC WTAG WTAM
WTAR WVIC WTMJ WWJ WWNC

ED-10:00 p.m., E-9:00, C-8:00, M-7:00 C — Parties at Pickfair

KFAB KFH KLRA KLZ KMBC
KMOX KOMA KRLL KRNT KSL
KTRH KTSB KTUL KWKH WABC
WACO WADC WBBM WBRB WBT
WCAO WCAU WCCO WDAE WDBJ
WDOO WEAN WFBL WFBM WGST
WHAS WHEC WHK WJAS WJR
WJSV WKBW WKRC WLAC WMBG
WMBR WNAC WOKO WQAM WREC
WTOC WWL

R — Elgin Swing Time Revue

KDYL KFI KFYR KGW KHQ
KOMO KPO KPRC KSD KSTP
KTBS KTHS KYW WAPI WAVE
WBAP WBEN WCAE WKY WCHS
WDAF WDAY WEAF WEBC WEEI
WFRB WFLA WGY WHO WHIO
WIBA WIOD WIRE WIS WJAR
WJAX WJDX WKY WMAQ WMC
WQAI WOW WPTF WRC WRVA
WSB WSM WSMB WSOC WTAG
WTAM WTAR WVIC WTMJ WWJ
WWNC

ED-10:30 p.m., E-9:30, C-8:30, M-7:30 C — March of Time. See Monday

R — Jimmy Fidler; Hollywood Gossip

KDYL KFI KGW KHQ KOMO KPO
KPRC KSD KTBS KTHS KYW
WAPI WAVE WBEN WCAE WKY
WCHS WDAF WEAF WEEI WFAA
WFRB WGY WJAR WJDX WKY
WMC WQAI WOW WRC WSB WSM
WSMB WTAG WTAM WVIC WWJ

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

C — Dance Orchestra

CKAC WAAB WABC WADC WCAO
WCAU WDRC WFBL WFEA WHEC
WHK WIBX WJAS WJSV WKBW
WLBZ WMAS WOKO WORC WSBT
WSPD

C — Myrt and Marge, See Monday

R — Amos 'n' Andy, See Monday

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

C — Dance Orchestra

CFRB CKAC KLRA KSCJ WAAB
WABC WADC WALA WBBM WBSB
WBRB WBT WCAU WCCO WDAE
WDBJ WDBO WDNC WDOD WDAE
WEAN WFBL WFBM WFEA WGST
WHAS WHEC WHK WIBX WIC
WISN WJAS WJR WJSV WKBW
WKRC WLAC WLBY WMSB WMBD
WMBG WMBR WNAX WNOX WOC
WOKO WORC WQAM WREC WSBT
WSJS WSMK WSPD WTOC

C — Walter O'Keefe; Glen Gray

KDB KERN KFBK KFPY KFCR
KGB KHJ KLZ KMJ KOH KOIN
KOL KSL KVI KVR KWG

R — Leo Reisman and Orchestra
KDYL KFI KFSD KGHL KGIR
KGW KHQ KOA KOMO KPO KTAR

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

C — Fred Waring's Pennsylvanians

KDB KERN KFBK KFPY KFCR
KGB KHJ KMJ KOH KOIN KOL
KVI KWG

WEDNESDAY

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

C — The Goldbergs; See Monday

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

C — Buck Rogers, See Monday

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

C — Bobby Benson, See Monday

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

C — Renfrew of Mounted, See Mon.

B — Lowell Thomas, See Monday

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

C — Myrt and Marge, See Monday

R — Amos 'n' Andy, See Monday

B — Easy Aces, See Tuesday

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

C — Paris Night Life

KFAB KMOX KRNT WABC WBBM
WBT WCAO WCAU WDRC WEAN
WFBL WFBM WGR WHAS WHEC
WHK WJAS WJSV WKRC WNAC
WOKO WORC

R — Uncle Ezra, See Monday

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

C — Kate Smith, See Tuesday

B — Lum and Abner, See Monday

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

C — Boake Carter, See Monday

C — Renfrew of Mounted, See Mon.

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

C — Cavalcade of America

KDB KERN KFBK KFBK KFPY
KFCR KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRLL KRNT
KSL KVI KWG WABC WACO
WBBM WCAO WCAU WCCO WDRC
WEAN WFBL WFBM WGR WGST
WHAS WHK WJAS WJR WJSV
WKRC WLAC WMBG WNAC WOKO
WSPD WWL

R — Your Hit Parade

KDYL KFI KFYR KGW KHQ KOA
KOMO KPO KPRC KSD KSTP
KTAR KTBS KVOO KYW WAVE
WBEN WCAE WCHS WDAF WDAY
WEAF WEBC WEEI WFAA WFRB
WFLA WGY WHO WHIO WIBA
WIOD WIRE WIS WJAR WJAX
WJDX WKY WLW WMAQ WMC
WQAI WOW WPTF WRC WRVA
WSB WSM WSMB WTAG WTAM
WVIC WTMJ WWJ WWNC

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

C — Burns and Allen

CFRB CKAC KFAB KFH KLRA
KMBC KMOX KOMA KRLL KRNT
KSCJ KTRH KTSB KTUL KWKH
WABC WADC WBBM WBSB WBRB
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDRC WEAN WFBL
WFBM WFEA WGR WGST WHAS
WHEC WHK WHP WIBW WIBX
WICC WJAS WJR WJSV WKRC
WLAC WLBY WMSB WMBD WMBG
WMBR WNAC WNAX WNOX WOKO
WORC WPG WQAM WREC WSPD
WWL

R — Wayne King, See Tuesday

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

C — Chesterfield Program

KDB KERN KFBK KFBK KFH
KFPY KFCR KGB KGKO KGBM
KHJ KLRA KLZ KMBC KMJ
KMOX KOH KOIN KOL KOMA
KRLL KRNT KSCJ KSL KTRH
KTSB KTUL KVI KVR KWG
KWKH WABC WACO WADC WALA
WBBM WBG WBSB WBRB WBT
WCAO WCAU WCCO WDAE WDBJ
WDBJ WDBO WDNC WDOD WDRC
WEAN WFBL WFBM WFEA WGST
WHAS WHEC WHK WHP WIBW
WIBX WICC WISN WJAS WJR
WJSV WKBW WKBW WKRC WLAC
WLBY WMAS WMBD WMBG
WMBR WNAC WNAX WNOX WNOX
WOC WOKO WORC WOW WPG
WQAM WREC WSFA WSJS WSPD
WTOC WWL

R — Town Hall; Fred Allen

KFYR KPRC KSD KSTP KTBS
KTHS KVOO KYW WAVE WBEN
WCAE WCHS WDAF WDAY WEAF
WEBC WEEI WFAA WFRB WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WQAI WOW WPTF WRC WSB
WSM WSMB WSOC WTAG WTAM
WTAR WVIC WTMJ WWJ WWNC

B — Corn Cob Pipe Club

KDKA KDYL KFI KGW KHQ KOA
KOL KOMO KPO KSO KWK KWB
WAZ WBAZ WCKY WFLG WJAZ
WHAM WHIO WIRE WJR WLS
WMAL WMT WREN WRVA WSYR
WXYZ

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

C — Ray Noble and Orchestra

CFRB KDB KERN KFBK KFBK
KFH KFPY KFCR KGB KGKO KHJ
KLRA KLZ KMBC KMJ KMOX
KOH KOIN KOL KOMA KRLL
KRNT KSCJ KSL KTRH KTSB
KTUL KVI KWG KWKH WABC
WACO WADC WALA WBBM WBG
WBSB WBRB WBT WCAO WCAU
WCCO WCOA WDAE WDBJ WDBO
WDOD WDRC WEAN WFBL WFBM
WFEA WGST WHAS WHEC WHK
WHP WIBW WIBX WICC WJAS
WJR WJSV WKBW WKBW WKRC
WLAC WLBY WMBD WMBG
WMBR WNAC WNOX WOC WOKO
WORC WOW WPG WQAM WREC
WSFA WSPD WTOC WWL

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

C — Crime Crusade; Phil Lord

KFAB KLZ KMBC KMOX KOMA
KRLL KRNT KSL KTRH KTSB
KTUL KWKH WAAB WABC WBBM
WBSB WBRB WBT WCAO WCAU
WCCO WCOA WDAE WDBJ WDBO
WDRC WEAN WFBL WFBM WGST
WHAS WHEC WHK WJAS WJR
WJSV WKBW WKRC WLAC WMBG
WMBR WOKO WORC WOWO
WQAM WREC WTOC WWL

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

C — March of Time, See Monday

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

C — Myrt and Marge, See Monday

R — Amos 'n' Andy, See Monday

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

C — Paris Night Life

KDB KERN KFBK KFPY KFCR

Wednesday (Continued)

KGB KHJ KLZ KMJ KOIN KOL
KBL KVI KWG

ED-11:30 p.m., E-10:30, C-9:30, M-8:30
C — **Dance Orchestra**
CKAC KLRA WAAB WABC WADC
WALA WBRC WBT WCAO WCAU
WDAE WDBJ WDBO WDNC WDDO
WDRG WEAN WFBL WFBM WFEA
WGST WHAS WHEC WHK WICC
WJAS WJR WJSV WKBW WKRC
WLAC WLWB WMBG WMBR WNOX
WOKO WORC WQAM WREC WSPD
WTOC

C — **Burns and Allen**
KDB KERN KFBK KFPY KFRC
KGB KHJ KLZ KMJ KOIN KOL
KSL KVI KFOR KWG

ED-12:00 p.m., E-11:00, C-10:00, M-9:00
R — **Town Hall; Fred Allen**
KDYL KFI KGW KHQ KOA KOMO
KPO, 1

THURSDAY

ED-5:45 p.m., E-4:45, C-3:45, M-2:45
C — **The Goldbergs, See Monday**

ED-6:00 p.m., E-5:00, C-4:00, M-3:00
C — **Focus by Verrii**
KFH KGKO KLRA KMBC KMOX
KOMA KRLD KRNT KSCJ KTRH
KTSJ KVOB KWKH WAAB WABC
WALA WBIG WBNS WBRC WBT
WCAO WCAU WDAE WDBO WDNC
WDDO WFBL WFBM WGST WHK
WISN WJAS WJR WJSV WKBW
WLAC WMBG WMBR WNOX
WOKO WQAM WREC WSJS WTOC

ED-6:15 p.m., E-5:15, C-4:15, M-3:15
C — **News of Youth, See Tuesday**

ED-6:45 p.m., E-5:45, C-4:45, M-3:45
C — **Renfrew of Mounted, See Mon.**

B — **Lowell Thomas, See Monday**

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

R — **Amos 'n' Andy, See Monday**
B — **Easy Aces, See Tuesday**

ED-7:15 p.m., E-6:15, C-5:15, M-4:15
C — **Musical Toast, See Tuesday**

R — **Edwin C. Hill, See Tuesday**

ED-7:30 p.m., E-6:30, C-5:30, M-4:30
C — **Kate Smith, See Tuesday**

B — **Lum and Abner, See Monday**

ED-7:45 p.m., E-6:45, C-5:45, M-4:45
C — **Boake Carter, See Monday**

C — **Renfrew of Mounted, See Mon.**

ED-8:00 p.m., E-7:00, C-6:00, M-5:00
C — **Chrysler Airshow**
KDB KERN KFAB KFBK KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRLD
KRNT KSL KTRH KTSJ KVI KWG
KWKH WABC WBBM WBNS WBT
WCAO WCAU WCCO WDAE WDRG
WEAN WFBL WFBM WGR WGST
WHAS WHEC WHK WJAS WJR
WJSV WKRC WMBR WNAC WOKO
WQAM WWL

R — **Rudy Vallee's Variety Hour**
CRCT CRCT KDYL KFI KFYZ
KGW KHQ KOA KOMO KPO KSD
KSTP KTAAR KYW WBEN WCAE
WCSH WDAF WDAY WEAF WBB

WEEI WFBR WGY WHO WJAR
WLW WMAQ WOW WRC WTAG
WTAM WTIC WTMJ WWJ

B — **Pittsburgh Symphony**
KDKA KOIL KPRC KSO KTBS KWK
WAPI WAVE WBAL WBAF WBJ
WBZA WCKY WENR WFAA WFIL
WFLA WGAR WHAM WIOD WIRE
WIS WJAX WJDX WJZ WKY WLS
WMAL WMC WOAI WPTF WREN
WRVA WSB WSM WSMW WSOC
WSUN WSYR WTAR WWCN WXYZ

ED-9:00 p.m., E-8:00, C-7:00, M-6:00
C — **Walter O'Keefe, See Tuesday**

R — **Maxwell House Show Boat**
KDYL KFI KFSD KFYZ KGLH
KGR KGW KHQ KOA KOMO KPO
KPRC KSD KSTP KTAAR KTBS
KYW WAPI WAVE WBAF WBEN
WCAE WCSH WDAF WDAY WEAF
WBC WEEI WFBR WFLA WGY
WHO WHIO WIBA WIOD WIRE WIS
WJAR WJAX WJDX WKY WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSAI WSB WSM WSMW
WSOC WTAG WTAM WTAR WTIC
WTMJ WWJ WWNC

B — **Death Valley Days**
KDKA KOIL KSO KWK WBAL WJB
WBZA WFIL WGAR WHAM WJZ
WLS WLW WMAL WMT WREN
WSYR WXYZ

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

C — **Ed Wynn; Lennie Hayton**
KDB KERN KFAB KFBK KFH
KFPY KFRC KGB KGKO KIJJ
KLRA KLZ KMBC KMJ KMOX
KON KOL KOMA KRLD KRNT
KSCJ KSL KTRH KTSJ KTUL KVI
KVOB KWG KWKH WABC WCAO
WADC WALA WBBM WBIG WBNS
WBRC WBT WCAO WCAU WCCO
WDAE WDBJ WDBO WDNC WDDO
WDRG WEAN WFBL WFBM WFEA
WGST WHAS WHEC WHK WHF
WIBW WIBX WICC WISN WJAS
WJR WJSV WKBW WKRC WLAC
WLWB WMBG WMBR WNOX
WQAM WREC WSA WSJS WSPD
WTOC WWL

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

C — **Horace Heidt and Orchestra**
KDB KERN KFAB KFBK KFH
KFPY KFRC KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOL
KRLD KRNT KSL KTRH KTSJ
KTUL KVI KWG WABC WBBM
WBNS WBRC WBT WCAO WCAU
WCCO WDBO WDRG WFBL WFBM
WGST WHAS WHK WISN WJAS
WJR WJSV WKBW WKRC WLAC
WMBG WNAC WNAX WOC WOKO
WQAM WREC WWL

R — **Bing Crosby; Jimmy Dorsey**
CRCT CRCT KDYL KFI KFYZ
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAAR KTBS KTHS
KYVO KYW WAVE WBAF WBEN
WCAE WCSH WDAF WDAY WEAF
WBC WEEI WFBR WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSB WSM WSMW WSOC
WTAG WTAM WTAR WTIC WTMJ
WWJ WWNC

ED-10:30 p.m., E-9:30, C-8:30, M-7:30
C — **March of Time, See Monday**

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

C — **Goose Greek Parson**
KDB KERN KFBK KFPY KFRC
KGB KHJ KMJ KOIN KOL KSL
KVI KWG

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

C — **Dance Orchestra**
WAAB WABC WADC WCAO WCAU
WFBL WHK WIBX WJSV WKBW
WKBW WLWB WMBG WMBR WNOX
WPG WSBT WSPD

C — **Myrt and Marge, See Monday**

R — **Amos 'n' Andy, See Monday**

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

C — **Dance Orchestra**
CFRB CKAC KLRA WAAB WABC
WADC WALA WBNS WBRC WBT
WCAO WCAU WDAE WDBJ WDBO
WDCO WDDO WDRG WEAN WFBL
WFBM WFEA WGST WHAS WHEC
WHK WIBX WICC WJAS WJR
WJSV WKBW WKBW WKRC WLAC
WLWB WMBG WMBR WNOX
WOKO WORC WQAM WREC WSBT
WSJS WSMK WSPD WTOC

C — **Walter O'Keefe, See Tuesday**

FRIDAY

ED-5:45 p.m., E-4:45, C-3:45, M-2:45
C — **The Goldbergs, See Monday**

ED-6:00 p.m., E-5:00, C-4:00, M-3:00
C — **Buck Rogers, See Monday**

ED-6:15 p.m., E-5:15, C-4:15, M-3:15
C — **Bobby Benson, See Monday**

ED-6:45 p.m., E-5:45, C-4:45, M-3:45
C — **Renfrew of Mounted, See Tues.**

B — **Lowell Thomas, See Monday**

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

R — **Amos 'n' Andy, See Monday**

ED-7:15 p.m., E-6:15, C-5:15, M-4:15
C — **Lazy Dan, Minstrel Man**
CKAC KFAB KMOX KOMA KRNT
WABC WADC WBBM WBNS WBRC
WBT WCAO WCAU WCCO WDRG
WEAN WFBL WFBM WGR WGST
WHAS WHK WJAS WJR WJSV
WKRC WMBG WMBR WNOX
WOKO WSPD WWL

R — **Uncle Ezra, See Monday**

ED-7:30 p.m., E-6:30, C-5:30, M-4:30
B — **Lum and Abner, See Monday**

ED-7:45 p.m., E-6:45, C-5:45, M-4:45
C — **Boake Carter, See Monday**

C — **Renfrew of Mounted, See Tues.**

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

C — **Flying Red Horse Tavern**
KFAB KFI KMBC KMOX KRNT
WABC WADC WBBM WBNS WCAO
WCAU WCCO WDRG WEAN WFBL
WFBM WGR WHAS WHEC WHK
WIBW WICC WJAS WJR WJSV
WKRC WLWB WMBG WMBR WNOX
WOC WOKO WORC WSPD

R — **Cities Service Concert**
CRCT KOA KPRC KSD KSTP KTBS
KTHS KYW WBEN WCAE WCSH
WDAF WEAF WBB WEEI WFAA
WFBW WGY WHO WHIO WIOD
WJAR WKY WMAQ WOAI WWO

FRIDAY (Continued)

WRC WRVA WSAI WTAG WTAM
WTIC WTMJ WWJ

B — Irene Rich; Drama

KDKA KDYL KFI KGW KHQ KOIL
KOMO KPO KSO KTAR KWK WAVE
WBAL WBZ WBZA WCKY WFIL
WGAR WHAM WIRE WJZ WLS
WMAL WMC WMT WREN WSB
WSM WSYR WXYZ

**ED-8:15 p.m., E-7:15, C-6:15, M-5:15
B — Wendell Hall**

CFCF KDKA KOIL KSO KWK
WBAL WBZ WBZA WCKY WFIL
WGAR WHAM WIRE WJZ WLS
WMAL WMT WOOD WREN WSYR
WXYZ

**ED-8:30 p.m., E-7:30, C-6:30, M-5:30
C — Broadway Varieties**

KDB KERN KFAB KFBK KFPY
KFRK KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRNT
KSL KVI KWG WABC WADC
WBMM WBNS WBRC WBT WCAO
WCAU WCCO WDRC WEAN WFBL
WFMM WGR WGST WHAS WHK
WJAS WJR WJSV WKRC WMAS
WMBG WNAC WOKO WSPD WWL

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

C — Hollywood Hotel

CFRB CKAC KDB KERN KFAB
KFRK KFH KFPY KFRK KGB KHJ
KLRA KLZ KMBC KMJ KMOX
KOIN KOL KOMA KRLL KRNT
KSCJ KSL KTRH KTSa KTUL KVI
KVRG KWG KWKH WABC WADC
WBMM WBNS WBRC WBT WCAO
WCAU WCCO WDAE WDBJ WDBO
WDRC WEAN WFBL WFMM WFEA
WGST WHAS WHFC WHK WHP
WIBW WIBX WICC WJAS WJR
WJSV WKBW WKRC WLAC WLZB
WMAS WMBD WMBG WMBR
WNAC WNAX WNOX WOKO WORC
WPG WQAM WREC WSPD WWL

R — Frank Munz; Bernice Claire

KSD KYW WBEN WCAE WCSH
WDAF WFAE WEEI WFBR WGY
WJAR WLW WMAQ WOW WRC
WTAG WTAM WWJ

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

R — True Story Court

KDYL KFI KFSD KGW KOA KOMO
KPO KSD KTAR KYW WBEN
WCAE WCSH WFAE WEEI WFBR
WGY WHO WHIO WJAR WMAQ
WOW WRC WTAG WTAM WTIC
WWJ

B — Fred Waring's Pennsylvanians

KDKA KDYL KFYR KOA KOIL
KPRC KSO KSTP KTBS KTHS
KWK WAPI WAVE WBAL WBZ
WBZA WCKY WDAY WEBC WENR
WFAA WFIL WFLA WGAR WHAM
WHIO WHIO WJOD WIRE WIS
WJAX WJDX WJZ WKY WMAL
WMC WMT WOAI WOOD WPTF
WREN WRVA WSB WSM WSMB
WSOC WSYR WTAR WTMJ WYNC
WXYZ

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

R — Campana's First Nighter

KDYL KFI KFSD KGW KHQ KOA
KOMO KPO KPRC KSD KSTP
KTAR KVOO KYW WBEN WCAE
WCSH WDAF WFAE WEBC WEEI
WFAA WFBW WFLA WGY WHO

WIOD WJAR WJAX WKY WKLW
WMAQ WMC WOAI WOW WRC
WRVA WWS WSM WSMB WTAG
WTAM WTIC WTMJ WWJ WYNC

**ED-10:30 p.m., E-9:30, C-8:30, M-7:30
C — March of Time, See Monday**

R — Marion Talley and Orchestra

KDYL KFI KFYR KGW KHQ KOA
KOMO KPO KSD KSTP KYW WBEN
WCAE WCKY WCSH WDAF WDAY
WEAF WEBC WEEI WFBR WGY
WHIO WIBA WIRE WJAR WMAQ
WOW WRC WTAG WTAM WTIC
WTMJ WWJ

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

C — Myrt and Marge, See Monday

R — Amos 'n' Andy, See Monday

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

C — Dance Orchestra

CFRB CKAC KLRA KSCJ WAAB
WABC WADC WALA WBNS WBRC
WBT WCAO WCAU WDAE WDBJ
WDBO WDNC WDOD WDRC WFBL
WFEA WGST WHEC WHK WHX
WISN WJAS WJR WKBW WLAC
WLZB WMAS WMBD WMBG
WMBR WNAX WNOX WOC WOKO
WORC WPG WQAM WREC WSBT
WSJS WSMK WSPD WTOP

C — Lazy Dan, Minstrel Man

KDB KERN KFBK KFPY KFRK
KGB KHJ KLZ KMJ KOIN KOL
KSL KVI KWG

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

C — Dance Orchestra

CFRB CKAC KLRA WAAB WABC
WADC WALA WBNS WBRC WBT
WCAO WCAU WDAE WDBJ WDBO
WDNC WDOD WDRC WEAN WFBL
WFMM WFEA WGST WHAS WHFC
WHK WHX WICC WJAS WJR
WJSV WKBW WKRC WLAC WLZB
WMAS WMBD WMBG WMBR
WNOX WOKO WORC WQAM WREC WSBT
WSJS WSMK WSPD WTOP

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

B — Fred Waring's Pennsylvanians

KFI KFSD KGHK KGIR KGW KHQ
KOMO KPO KTAR

SATURDAY

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

C — Frederic William Wile

KFH KGKO KLRA KLZ KMBC
KMOX KOMA KRLL KSCJ KSL
KTRH KTSa KVOR KWKH WAAB
WABC WACO WADC WALA WBMM
WBIG WBRC WBT WCAO WCCO
WDAE WDBJ WDBO WDNC WDOD
WESG WFBL WFMM WGST WHFC
WHK WHX WIBX WISN WJAS
WJR WJSV WKBW WKRC WLAC
WLZB WMBG WMBR WNOX WOKO
WORC WQAM WREC WSBT WSJS
WSMK WSPD WTOP

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

C — News of Youth, See Tuesday

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

C — Atlantic Family; Frank Parker

WABC WADC WALA WBNS WBRE
WBT WCAO WCAU WCBW WDAE
WDBJ WDBO WDRC WEAN WFBG
WFBL WGBI WGR WGST WHFC
WHK WHP WHX WICC WJAS
WMAS WMBG WMBR WNAC

WNBF WOKO WORC WORK WQAM
WRAX WSJS WTOC WWVA

**ED-7:15 p.m., E-6:15, C-5:15, M-4:15
R — Edwin C. Hill, See Monday**

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

C — Ziegfeld Follies; Fannie Brice
CKAC CKGL KFAB KLZ KMBC
KMOX KOMA KRLL KRNT KSL
KTRH KTSa KTUL KWKH WABC
WBMM WBNS WBRC WBT WCAO
WCAU WCCO WDAE WDBJ WDBO
WDRC WEAN WFBL WFMM WGR
WGST WHAS WHFC WHK WJAS
WJR WJSV WKRC WLAC WLZB
WMBG WMBR WNAC WOKO
WORC WQAM WREC WTOC WWL

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

R — Shell Chateau

KDYL KFI KFSD KFYR KGHK
KGIR KGW KHQ KOA KOMO KPO
KSD KSTP KTAR KYW WBEN
WCAE WCSH WDAF WDAY WFAE
WERC WEEI WFBR WGY WIBA
WJAR WLW WMAQ WOW WRC
WTAG WTAM WTIC WTMJ WWJ

B — National Barn Dance

KDKA KOIL KPRC KSO KTBS
KTHS KVOO KWK WAPI WAVE
WBAL WBAP WBZ WBZA WFIL
WGAR WHAM WIRE WJDX WJZ
WKY WLS WMAL WMC WMT
WOAI WOOD WREN WSB WSMB
WSYR WXYZ

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

C — Salon Moderne

CFRB CKAC KFH KGKO KLRA
KLZ KMBC KMOX KOMA KSCJ
KTRH KTSa KVOR KWKH WABC
WACO WADC WALA WBMM WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WDAE WDBJ WDBO WDNC
WDOD WDRC WEAN WFBL WFMM
WFEA WHAS WHFC WHK WHX
WIBX WICC WISN WJAS WJR
WJSV WKBW WKRC WLAC WLZB
WMAS WMBD WMBG WMBR
WNAC WNOX WOC WOKO WHFC
WPG WQAM WREC WSBT WSJS
WSMK WSPD WTOP

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

R — George Olsen; Ethel Shutta

KDYL KFI KFYR KGW KHQ KOA
KOMO KPO KSD KSTP KYW WAVE
WBEN WCAE WCKY WYWH WDAF
WDAY WFAE WMBG WEEI WFBR
WGY WHO WIBA WIRE WJAR
WJDX WMAQ WNIC WOW WRC
WSB WSMB WTAG WTAM WTIC
WTMJ WWJ

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

C — Dance Orchestra

CFRB CKAC KFH KGKO KLRA
KLZ KMBC KMOX KOMA KRLL
KSCJ KSL KTRH KTSa KVOR
KWKH WABC WACO WADC WALA
WBMM WBNS WBRC WBT WCAO
WCAU WCCO WDAE WDBJ WDBO
WDNC WDOD WDRC WFBL WFMM
WFEA WGST WHAS WHFC WHK
WHX WIBX WICC WISN WJAS
WJR WJSV WKBW WKRC WLAC
WLZB WMAS WMBD WMBG
WMBR WNAX WNOX WOC WOKO
WORC WQAM WREC WSBT WSJS
WSMK WSPD WTOP

B — National Barn Dance

KDYL KFI KFSD KFYR KGHK
KGIR KGU KGW KHQ KOA KOMO

SATURDAY (Continued)

KPO KSTP KTR AR WDAY WEBC
WIBA WLW WTMJ

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

C — Dance Orchestra
CFRB CKAC KFH KGKO KLRA
KLZ KMBC KMOX KOMA KSL
KTRH KTSa KVOR KWKH WABC
WACO WADC WALA WBNS WBRC
WBT WCAO WCAU WDAE WDBJ
WDBO WDNC WDOE WDRB WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHW WIBX WJWS
WJAS WJR WKWB WKRC WLAC
WLBZ WMAS WMBG WMBR WNOX
WOKO WORC WQAM WREC WSBT
WSJS WSMK WSPD WTOC

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

C — Ziegfeld Follies; Fannie Brice
KDB KERN KFBK KPFP KFCR
KGB KHJ KMJ KOIN KOL KVI
KWG

SUNDAY

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

C — Salt Lake Tabernacle Choir
KFH KGKO KLRA KLZ KMBC
KOMA KRLD KSCJ KSL KTRH
KTSa KWKH WACO WADC WALA
WBG WBNS WBRC WBT WCCO
WDBO WDNC WDOE WDRB WFBL
WFBM WFEA WGST WHAS WIBW
WIBX WISN WJAS WJR WJSV
WKBN WKRC WLAC WLBZ WMAS
WMBD WMBR WNAC WNAx
WNOX WOKO WORC WQAM WREC
WSBT WSMK WSPD WTOC

R — Major Bowes' Capitol Family
CFCF CRCT KDYL KFI KFYP
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTBs KTHs KVoo KYW
WAPI WAVE WHAP WHEN WCAE
WCSC WCSH WDAF WDAY WEAF
WEBC WEEI WFAA WFBC WFBF
WFLA WGY WHO WIBA WIOD
WIS WJAR WJAX WJDX WPKY
WMAQ WMC WOAI WOP WPTF
WRC WRVA WSB WSM WSMB
WOSC WSUN WTAM WTAN WTAR
WTIC WTMJ WWJ WWNC

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

B — Radio City Music Hall
CFCF CRCT KDKA KDYL KFI
KFYP KGO KGW KHQ KOIL KOMO
KPRC KSO KVoo WAPI WBAL
WBZ WBZA WCKY WDAY WEBC
WGAR WHAM WIS WJDX WJZ
WKY WMAL WOAI WREN WSMB
WSYR WYWC

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

C — Trans-Atlantic Broadcast
CFRB CKAC KFH KGKO KLRA
KLZ KMBC KRLD KSCJ KTRH
KTSa KVOR WABC WACO WADC
WALA WBG WBRC WCAO WCAU
WCCO WDAE WDBJ WDBO WDRB
WEAN WESG WFBL WFBM WFEA
WGR WHAS WIBX WJAS WJSV
WKBN WLAC WLBZ WMBD WMBR
WNAC WOC WOKO WORC WPG
WQAM WREC WSJS WSMK WSPD
WTOC WWL

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

C — Church of the Air
KFH KGKO KLRA KOMA KRLD

KSCJ KSL KTRH KTSa KVOR
KWKH WABC WACO WALA WBNS
WBT WCAO WCCO WDAE WDBJ
WDBO WDOE WESG WFBM WGR
WHAS WHEC WIBW WIBX WJAS
WJSV WKBN WKRC WLAC WLBZ
WMBD WMBR WOC WOKO WORC
WPG WQAM WREC WSBT WSJS
WSPD

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

C — Musical Footnotes
KMBC KMOX KRNT WABC WBBM
WBNS WCAU WCCO WHAS WHK
WJAS WJR WJSV WKBW WKRC
WREC

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

C — Kaltenborn Edits the News
CFRB KFH KPFP KGKO KHJ
KLRA KLZ KMBC KMOX KRLD
KRNT KSCJ KSL KTRH KTSa
KVOR KWKH WAAB WABC WADC
WALA WBG WBRC WBT WCAU
WCCO WDAE WDBJ WDBO WDNC
WDOE WDRB WEAN WESG WFBL
WGST WHAS WHK WIIP WIBW
WIBX WISN WJAS WJR WKBN
WKBW WKRC WLAC WLBZ WMAS
WMBD WMBG WMBR WMMN
WNAC WNOX WOC WOKO WORC
WQAM WREC WSBT WSJS WSMK
WSPD WTOC

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

C — Poet's Gold; David Ross
KFAB KLRA KLZ KMBC KMOX
KOMA KRLD KRNT KSL KTRH
KTUL WABC WADC WBBM WBNS
WBRC WBT WCAO WCAU WCCO
WDRB WEAN WFBM WFBM WHAS
WHEC WHK WJAS WJR WJSV
WKBW WKRC WLAC WNAC WOKO
WOWO WREC WWL

B — Magic Key of RCA
CFCF CRCT KDKA KDYL KFI
KFYP KGU KGW KHQ KOA KOIL
KOMO KPO KPRC KSO KSTP
KTBs KTHs KVoo KWK WAPI
WAVE WHAL WBZ WBZA WCKY
WDAY WEBC WENR WFAA WFIL
WFLA WGAR WHAM WHIO WIBA
WIOD WIRE WIS WJAX WJDX
WJZ WKY WMAL WMC WMT
WOAI WPTF WREN WRVA WSB
WSM WSMB WSOC WSYR WTAR
WTMJ WYWC WYXZ

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

C — Jose Manzanaras and Orchestra
KFAB KMBC KMOX KOMA KRLD
KRNT KTRH WABC WADC WBBM
WBT WCAO WCAU WCCO WDAE
WDRB WEAN WFBL WFBM WHAS
WHK WISN WJAS WJR WJSV
WKBW WKRC WMBR WNAC
WOKO WQAM WREC WSPD WWL

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

C — Philharmonic Symphony
CFRB CKAC KFH KGKO KLRA
KLZ KOMA KRLD KSCJ KSL
KTRH KTSa KVOR KWKH WABC
WACO WADC WALA WBBM WBG
WBNS WBRC WBT WCAO WCCO
WDAE WDBJ WDBO WDNC WDOE
WDRB WEAN WESG WFBL WFBM
WFEA WGST WHAS WHEC WHK
WIBW WIBX WICC WISN WJAS

WJR WKBN WKBW WKRO WLAC
WLBZ WMAS WMBD WMBG
WMBR WNAC WNOX WOC WOKO
WORB WQAM WREC WSBT WSJS
WSMK WSPD WTOC

B — Your English

KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO KPRC KSO
KSTP KTHs KVoo KWK WAPI
WAVE WHAL WBZ WBZA WDAY
WEBC WENR WFAA WFIL WFLA
WGAR WHAM WIOD WJAX WJZ
WKY WLW WMAL WMC WMT
WOAI WPTF WREN WRVA WSB
WSM WSMB WSYR WYXZ

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

Rev. Charles E. Coughlin
KFEL KNN KSFO KSTP KVOD
KWK WATR WCAO WCAU WDRB
WEAN WFBL WFEA WGAR WGR
WHB WHO WICC WISN WJAS
WJDX WJR WLBZ WLLH WLW
WMAS WNAC WNBH WOKO WOL
WOR WORC WOW WRDO

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

C — Abe Lyman and Orchestra
CFRB KFAB KMBC KMOX KRNT
WAAB WABC WADC WBBM WCAO
WCAU WCCO WDRB WEAN WFBL
WFBM WHAS WHEC WHK WJAS
WJR WJSV WKBW WKRC WOKO
WSPD

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

C — Frank Crumit; Julia Sanderson
KFH KMBC KMOX KOMA KTUL
WAAB WABC WADC WBNS WCAO
WCAU WDRB WEAN WFBL WFBM
WGR WHAS WHEC WHK WIBX
WICC WJR WJSV WMAS WOKO
WORC WSPD WWL WVA

C — Jose Manzanaras and Orchestra
KDB KERN KFBK KPFP KFCR
KGB KHJ KLZ KMJ KOIN KOL
KSL KVI KWG

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

C — Phil Spitalny and Orchestra
KFAB KFH KPFP KFCR KGB
KGKO KHJ KLRA KLZ KMBC
KMOX KOIN KOL KOMA KRLD
KRNT KSCJ KSL KTRH KTSa
KTUL KVI KVOR KWKH WAAB
WABC WADC WBBM WBG WBNS
WBRC WBT WCAO WCAU WCCO
WDAE WDBJ WDBO WDNC WDRB
WEAN WFBL WFBM WFEA WGR
WGST WHAS WHEC WHK WHP
WIBW WIBX WICC WISN WJAS
WJR WJSV WKBW WKRC WLAC
WLBZ WMAS WMBX WNAC WNOX
WOC WOKO WORC WPG WQAM
WREC WTOC WWL WVA

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

C — Smiling Ed McConnell
KDB KERN KFAP KFBK KFH
KPFP KFCR KGB KHJ KLZ KMJ
KMOX KOIN KOL KRLD KRNT
KSL KVI KWG WAAB WABC
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDBJ WDRB WEAN
WFBL WHAS WHEC WHK WJAS
WJR WJSV WKBW WKRC WLAC
WWL WVA

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

C — Voice of Experience
KMOX WAAB WABC WADC WBBM
WBT WCAO WCAU WCCO WDRB
WEAN WFBL WFBM WHAS WHEC

SUNDAY (Continued)

WHK WJAS WJR WKWB WKRC
WSPD WVVV

ED-7:00 p.m., E-6:00, C-5:00, M-4:00
C — Eddie Cantor

KFAB KFH KLRA KLZ KMBC
KMOX KOMA KRLL KRNT KTRH
KTSa KTUL KWKH WABC WADC
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDOD WDRC WEAN
WFBL WFBM WGR WGST WHAS
WHEC WHK WIC WJAS WJR
WJSV WKRC WLAC WNAC WOKO
WOWO WREC WSPD WWL

B — Jack Benny; Johnny Green
CFCF CRCT KDKA KFYZ KOIL
KPRC KSO KSTP KTBS KVQO KWK

WAVE WBAL WBZ WBZA WDAY
WEEC WENR WFaa WFLD WFLA
WGAR WHAM WIBA WIOD WIS
WJAX WJDX WJZ WKY WLW
WMAL WMC WMT WOAI WPTF
WREN WRVA WSB WSM WSMB
WSOC WSYR WTAR WTMJ WWNC
WXYZ

ED-7:30 p.m., E-6:30, C-5:30, M-4:30
C — Phil Baker; Hal Kemp

KLRA KLZ KRLL KTRH KTSa
KWKH WABC WACO WADC WALA
WBIG WBNS WBRC WBT WCAO
WCAU WCOA WDAE WDBJ WDBO
WDNC WDOD WDRC WEAN WFBL
WFBM WFEA WGR WGST WHAS
WHEC WHK WHP WIBX WICC
WJAS WJR WJSV WKBN WKRC
WLAC WLWB WMA5 WMBR WNAC
WNBF WNOX WOKO WORC WQAM
WREC WSBT WSFA WSJS WSMK
WSPD WTOC WWL WVVV

R — Fireside Recitals
KSD KYW WBen WCAE WCHS
WDAF WEAf WFBZ WGY WHIO
WIRE WJAR WMAQ WOW WRC
WSA1 WTAG WTAM WTIC WWJ

B — Ozzie Nelson; Robt. L. Ripley
KDKA KDYL KFI KFYZ KGW
KHQ KOA KOIL KOMO KPO KPRC
KSO KSTP KTAR KVOO KWK
WBAL WBZ WBZA WCKY WDAY
WEEC WFAA WFLA WGAR WHAM
WIBA WIOD WJAX WJDX WJZ
WKY WLS WMAL WMC WMT
WOAI WPTF WREN WRVA WSB
WSM WSMB WSYR WTMJ WWNC
WXYZ

ED-7:45 p.m., E-6:45, C-5:45, M-4:45
R — Sunset Dreams; Morin Sisters

CFCF CRCT KSD KYW WBen
WCAE WCHS WDAF WEAf WFBZ
WGY WHO WHIO WIRE WJAR
WLW WMAQ WOAI WOOD WOW
WRC WTAG WTAM WTIC WWJ

ED-8:00 p.m., E-7:00, C-6:00, M-5:00
C—World Dances; Lud Gluskin

KFAB KFH KFPY KLRA KLZ
KMBC KMOX KOMA KRLL KRNT
KTRH KTSa KTUL KWG KWKH
WABC WADC WALA WBBM WBNS
WBRC WBT WCAO WCAU WCCO
WDOD WDRC WEAN WFBL WFBM
WGR WGST WHAS WILEC WHK

WHP WICC WJAS WJR WJSV
WKRC WLAC WNAC WNAX WOC
WOKO WOWO WREC WSPD WWL

R — Major Bowes' Amateur Hour
CFCF CRCT KDYL KFI KFYZ
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KVOO KYW
WAVE WBen WBZ WBZA WCAE
WCHS WDAF WDAY WEAf WEEC
WFAA WFBZ WFLA WGY WHO
WIOD WIS WJAR WJAX WJDX
WKY WLW WMAQ WMC WOAI
WOW WPTF WRC WRVA WSB
WSM WSMB WTAG WTAM WTAR
WTIC WTMJ WWJ WWNC

ED-9:00 p.m., E-8:00, C-7:00, M-6:00
C — Ford Concert

CFRB CKAC KDB KERN KFAB
KFBK KFH KFPY KFRC KGB
KGKO KHJ KLRA KLZ KMBC KMJ
KMOX KOH KOIN KOL KOMA
KRLL KRNT KSCJ KSL KTRH
KTSa KTUL KVI KVOR KWG
KWKH WABC WACO WADC WALA
WBBM WBIG WBNS WBRC WBT
WCAO WCAU WCCO WCOA WDAE
WDBJ WDBO WDNC WDOD WDRC
WEAN WFBL WFBM WFEA WGST
WHAS WHEC WHK WHP WIBW
WIBX WICC WISN WJAS WJR
WJSV WKBH WKBN WKBW WKRC
WLAC WLWB WMA5 WMBD WMBR
WNAC WNAX WNOX WOC WOKO
WORC WOWO WQAM WREC WSBT
WSFA WSJS WSMK WSPD WTOC
WWL

R — Manhattan Merry-Go-Round
CFCF KDYL KFI KFYZ KGW
KHQ KOA KOMO KPO KSD KSTP
KYW WBen WCAE WCHS WDAF
WDAY WEAf WEEC WFBZ WGY
WHO WHIO WIBA WJAR WMAQ
WOW WRC WSA1 WTAG WTAM
WTIC WTMJ WWJ

B — Jack Hylton; Pat O'Malley
KDKA KOIL KSO KWK WBAL WBZ
WBZA WENR WFLG WGAR WHAM
WJZ WLW WMAL WMT WREN
WSYR WXYZ

ED-9:30 p.m., E-8:30, C-7:30, M-6:30
R — Album of Familiar Music

CFCF CRCT KDYL KFI KFYZ
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTBS KYW WAPI
WAVE WBen WCAE WCHS WDAF
WDAY WEAf WEEC WEEI WFAA
WFBZ WFLA WGY WHO WHIO
WIBA WIOD WIS WJAR WJAX
WJDX WKY WMAQ WMC WOAI
WOW WPTF WRC WRVA WSA1
WSB WSM WSMB WSOC WTAG
WTAM WTAR WTMJ WWJ WWNC

B — Walter Winchell
KDKA KOIL KSO KWK WBAL WBZ
WBZA WENR WFLG WGAR WHAM
WJZ WLW WMAL WMT WREN
WSYR WXYZ

ED-9:45 p.m., E-8:45, C-7:45, M-6:45
B-Paul Whiteman's Musical Varieties

KDKA KOIL KSO KWK WBAL WBZ
WBZA WENR WFLG WGAR WHAM
WJZ WLW WMAL WMT WREN
WSYR WXYZ

ED-9:45 p.m., E-8:45, C-7:45, M-6:45
B-Paul Whiteman's Musical Varieties

KDKA KOIL KSO KWK WBAL WBZ
WBZA WENR WFLG WGAR WHAM
WJZ WLW WMAL WMT WREN
WSYR WXYZ

ED-9:45 p.m., E-8:45, C-7:45, M-6:45
B-Paul Whiteman's Musical Varieties

KDKA KOIL KSO KWK WBAL WBZ
WBZA WENR WFLG WGAR WHAM
WJZ WLW WMAL WMT WREN
WSYR WXYZ

ED-10:00 p.m., E-9:00, C-8:00, M-7:00
C—Freddie Rich and Orchestra

KDB KERN KFAB KFBC KFRC
KGB KHJ KLZ KMBC KMJ KMOX
KOIN KOL KRLL KSL KVI KWG
WAAB WABC WADC WALA WBNS
WCAO WCAU WCCO WDRC WFBL
WFBM WHAS WHK WHP WIBW
WJAS WJR WJSV WKBW WKRC
WOC WOKO WSPD WWL

R — General Motors Concert
CFCF CRCT KDYL KFI KFSD
KHQ KGHL KGIR KGU KGW
KHQ KOA KOMO KPO KPRC KSTP
KTAR KTBS KTHS KYW WAPI
WAVE WBAP WBen WCAE WCHS
WDAF WDAY WEAf WEEC WEEI
WFBZ WFLA WGY WHO WHIO
WIBA WIOD WIRE WIS WJAR
WJAX WJDX WJZ WMAQ WMC
WOAI WOW WPTF WRC WRVA
WSA1 WSB WSM WSMB WSOC
WTAG WTAM WTAR WTIC WTMJ
WWJ WWNC

ED-10:30 p.m., E-9:30, C-8:30, M-7:30
C — Understanding Opera

CFRB CKAC KGKO KLRA KOH
KOMA KRLL KSL KTSa KTUL
KWKH WABC WACO WADC WALA
WBIG WBNS WBRC WBT WCAO
WCAU WDAE WDBJ WDBO WDNC
WDOD WDRC WEAN WFLG WFEA
WGST WHEC WHP WIBX WICC
WJAS WKBN WKBW WLAC WLBB
WMA5 WMBG WMBR WMMN
WNAC WOKO WORC WQAM WREC
WSJS WSMK WTOC WVVV

ED-11:00 p.m., E-10:00, C-9:00, M-8:00
C — Eddie Cantor

KDB KERN KFBC KFPY KFRC
KGB KHJ KMJ KOIN KOL KSL
KVI KWG

R — Sunset Dreams; Morin Sisters
KDYL KFI KFSD KGW KHQ KOA
KOMO KPO KPRC KTAR KTBS
KTHS WBAF WDAF WKY

ED-11:15 p.m., E-10:15, C-9:15, M-8:15
B — Walter Winchell

KDYL KFI KFSD KGHL KGIR
KGW KHQ KOA KOMO KPO KPRC
KTAR KTBS KTHS WAPI WAVE
WBAP WJDX WKY WMC WOAI
WSB WSM WSMB

ED-11:30 p.m., E-10:30, C-9:30, M-8:30
C — Voice of Experience

KDB KERN KFBC KFPY KFRC
KGB KHJ KLZ KMJ KOIN KOL KSL
KVI KWG

B — Jack Benny; Johnny Green
KDYL KFI KFSD KGHL KGIR
KGW KHQ KOA KOMO KPO
KTAR

B-Paul Whiteman's Musical Varieties
KECA KEX KFSD KGA KGO KJR
KPRC KTBS KTHS WAPI WAVE
WBAP WJDX WKY WMC WOAI
WSB WSM WSMB

ED-12:00p.m., E-11:00, C-10:00, M-9:00
B — Jack Hylton; Pat O'Malley

KDYL KFI KGW KHQ KOA KOMO
KPO

We have prepared a very interesting circular on methods of attaching head phones and distant speakers to radio sets. One of these will be sent you for the asking. Address The Radex Press, Inc., Conneaut, Ohio.

CLASSIFIED INDEX TO CHAIN PROGRAMS

Time in Eastern Daylight Saving

C—Columbia; R—National (Red); B—National (Blue)

CONCERTS

Ford Concert, 9:00 p.m. Sunday, C
 General Motors Concert, 10:00 p.m. Sunday, R
 Philharmonic Symphony, 3:00 p.m. Sunday, C
 Pittsburgh Symphony, 8:00 p.m. Thurs., B
 Radio City Music Hall, 12:30 p.m. Sunday, B
 Understanding Opera, 10:30 p.m. Sun., C

DANCE BANDS

Victor Arden, 8:30 p.m. Friday, C
 Ben Bernie, 9:00 p.m. Tuesday, B
 Ray Block, 7:15 p.m. Tues. and Thurs., C
 Jimmy Dorsey, 10:00 p.m. Thursday, R
 Eddie Duchin, 9:30 p.m. Tues., R
 Lud Gluskin, 8:00 p.m. Sunday, C
 Al Goodman, 8:00 and 12:00 p.m. Sat., C
 Benny Goodman, 10:00 p.m. Tuesday, R
 Glen Gray, 9:00 and 11:30 p.m. Tuesday and Thursday, C
 Johnny Green, 7:00 and 11:30 p.m. Sunday, B
 Louis Gress, 7:00 p.m. Sunday, C
 Lennie Hayton, 9:30 p.m. Thurs., C
 Horace Heldt, 10:00 p.m. Thursday, C
 Richard Himber, 10:00 p.m. Tues., B
 Jack Hylton, 9 and 12 p.m. Sun., B
 Hal Kemp, 7:30 p.m. Sunday, C
 Wayne King, 8:30 p.m. Tuesday and Wednesday, R
 Benny Kruger, 8:30 p.m. Mon., C
 Guy Lombardo, 8:00 p.m. Monday, C
 Abe Lyman, 5:00 p.m. Sunday, C
 Al Lyons, 10:00 p.m. Tuesday, C
 Jose Manzanera, 2:30 and 5:30 p.m. Sunday, C
 Russ Morgan, 8:30 p.m. Tues., C
 Ozzie Nelson, 7:30 p.m. Sunday, B
 Ray Noble, 9:30 p.m. Wednesday, C
 George Olsen, 10:30 p.m. Saturday, R
 Raymond Faigle, 9:00 p.m. Friday, C
 Leo Reisman, 8:00 and 11:30 p.m. Tuesday, R
 Freddie Rich, 10:00 p.m. Sunday; 8:00 p.m. Friday, C
 Phil Spitalny, 6:00 p.m. Sun., C
 Rudy Vallee, 8:00 p.m. Thursday, R
 Fred Waring, 9:30 and 12:00 p.m. Tuesday, C; 9:30 and 12:00 p.m. Friday, B
 Paul Whiteman, 9:45 and 11:30 p.m. Sunday, B
 Victor Young, 9:30 p.m. Saturday, R

DIALOG

Fred Allen, 9:00 and 12:00 p.m. Wednesday, R
 Amos 'n' Andy, 7:00 and 11:00 p.m. daily, except Sat. and Sun., R
 Phil Baker, 7:30 p.m. Sunday, C
 Jack Benny, 7:00 and 11:30 p.m. Sunday, B
 Burns and Allen, 8:30 and 11:30 p.m. Wednesday, C
 Eddie Cantor, 7:00 and 11:00 p.m. Sunday, C
 Easy Aces, 7:00 p.m. Tues., Wed., and Thurs., B
 Fibber McGee and Molly, 8:00 p.m. Monday, B
 Lum and Abner, 7:30 p.m. daily, except Sat. and Sun., B
 Ken Murray, 8:30 p.m. Tues., C
 Walter O'Keefe, 9:00 and 11:30 p.m. Tuesday and Thursday, C
 Pick and Pat, 8:30 and 11:30 p.m. Monday, C
 Stoopnagle and Budd, 9:00 p.m. Wed., R
 Ed. Wynn, 9:30 p.m. Thursday, C

DRAMA

Cavalcade of America, 8:00 p.m. Wednesday, C
 Crime Crusade, 10:00 p.m. Wednesday, C
 Death Valley Days, 9:00 p.m. Thursday, B
 Eno Crime Clues, 8:00 p.m. Tuesday, B
 First Nighter, 10:00 p.m. Friday, R
 Goldbergs, 5:45 p.m. daily exc. Sat. and Sun., C
 Phillips Lord, 10:00 p.m. Wednesday, C
 Lux Radio Theatre, 9:00 p.m. Monday, C
 Myrt and Marge, 7:00 and 11:00 p.m. daily, except Sat. and Sun., C
 News of Youth, 6:15 p.m. Tues., Thur., Sat., C
 Parties at Pickfair, 10:00 p.m. Tues., C
 Renfrew of the Mounted, 6:45 and 7:45 p.m. Mon. thru Fri., C

Irene Rich, 8:00 p.m. Friday, B
 Buck Rogers, 6:00 p.m. Mon., Wed., and Fri., C
 A Tale of Today, 9:30 p.m. Mon., B
 True Story Court, 9:30 p.m. Friday, R
 Welcome Valley, 8:30 p.m. Tuesday, B

POPULAR PROGRAMS

A. & P. Gypsies, 9:00 p.m. Monday, R
 Album of Familiar Music, 9:30 p.m. Sunday, R
 Atlantic Family, 7:00 p.m. Saturday, C
 Major Bowes, 11:30 a.m. and 8:00 p.m., Sunday, R
 Broadway Varieties, 8:30 p.m. Friday, C
 Camel Program, 9:00 and 11:30 p.m. Tues. and Thurs., C
 Chesterfield Program, 9:00 p.m. Wed., C
 Chrysler Airshow, 8:00 p.m. Thursday, C
 Cities Service Concert, 8:00 p.m. Friday, R
 Contented Program, 10:00 p.m. Monday, R
 Corn Cob Pipe Club, 9:00 p.m. Wednesday, B
 Elgin Swing Time, 10:00 p.m. Tues., R
 Evening in Paris, 8:30 p.m. Monday, B
 Frieside Recitals, 7:30 p.m. Sunday, R
 Fleischmann Variety Hour, 8:00 p.m. Thursday, R
 Flying Red Horse Tavern, 8:00 p.m. Friday, C
 Goose Creek Parson, 10:45 p.m. Thurs., C
 Hammerstein's Music Hall, 8:00 p.m. Monday, R
 Hit Parade, 8:00 p.m. Wed., R
 Hollywood Hotel, 9:00 p.m. Friday, C
 Krueger Musical, 7:15 p.m. Tuesday and Thursday, C
 Magic Key of RCA, 2:00 p.m. Sunday, B
 Manhattan Merry-Go-Round, 9:00 p.m. Sunday, R
 March of Time, 10:30 p.m. Mon. thru Fri., C
 Maxwell House Show Boat, 9:00 p.m. Thursday, R
 Musical Footnotes, 1:30 p.m. Sunday, C
 National Barn Dance, 9:30 and 11:00 p.m. Saturday, B
 Paris Night Life, 7:15 and 11:15 p.m. Wednesday, C
 Poet's Gold, 2:00 p.m. Sun., C
 Shell Chateau, 9:30 p.m. Saturday, R
 Sinclair Minstrels, 9:00 p.m. Monday, B
 Swift Studio Party, 9:30 p.m. Mon., R
 Texaco Fire Chief, 9:30 p.m. Tuesday, R
 Town Hall Tonight, 9:00 and 12:00 p.m. Wed., R
 Uncle Ezra, 7:15 p.m. Mon., Wed., and Fri., R
 Voice of Firestone, 8:30 and 11:30 p.m., Monday, R
 Vox Pop, 9:00 p.m. Tuesday, R
 Ziegfeld Follies, 8:00 and 12 p.m. Sat., C

SINGERS

Armida, 7:15 and 11:15 p.m., Wednesday, C
 Smith Ballew, 9:30 p.m. Sat., R
 Connie Boswell, 9:30 p.m. Wednesday, C
 Fannie Brice, 8:00 and 12:00 p.m. Sat., C
 Patti Chapin, 8:00 and 12:00 p.m. Sat., C
 Charlotteers, 7:15 p.m. Monday, C
 Vivian Della Chiesa, 1:30 p.m. Sunday, C
 Bernice Claire, 5:00 p.m. Sunday, C, and 9:00 p.m. Friday, R
 Jerry Cooper, 7:15 p.m. Tuesday and Thursday, C
 Bing Crosby, 10:00 p.m. Thursday, R
 Crumit-Sanderson, 5:30 p.m. Sunday, C
 Morton Downey, 8:30 p.m. Mon., B
 Jessica Dragonette, 8:00 p.m. Friday, R
 Phil Ducey, 8:00 and 11:30 p.m. Tuesday, R
 Alexander Gray, 8:00 p.m. Thursday, C
 Wendell Hall, 8:15 p.m. Friday, B
 Frances Langford, 9:00 p.m. Friday, C
 La Prelle Bros., 8:30 p.m. Monday, C
 Lazy Dan, 7:15 p.m. Friday, C
 Pierre LeKreune, 7:15 and 11:15 p.m. Wed., C
 Elizabeth Lennox, 8:30 p.m. Friday, C
 James Melton, 8:00 p.m. and 12:00 p.m. Sat., C
 Lucy Monroe, 8:00 p.m. Tuesday, C and 9:30 p.m. Sunday, B
 Morin Sisters, 7:45 and 11:00 p.m. Sunday, R
 Frank Munn, 8:00 p.m. Tuesday, C; 9:30 p.m. Sunday and 9:00 p.m. Friday, R
 Donald Novis, 9:30 p.m. Tuesday, R

Frank Parker, 7:00 p.m. Saturday, C
 Pickens Sisters, 8:30 p.m. Monday, B
 Lily Pons, 9:00 p.m. Wednesday, C
 Carmella Ponselle, 8:30 p.m. Friday, C
 Dick Powell, 9:00 p.m. Friday, C
 Lanny Ross, 9:00 p.m. Thursday, R
 Fritz Scheff, 8:00 p.m. Tuesday, C
 Oscar Shaw, 8:30 p.m. Friday, C
 Ethel Shutta, 10:30 p.m. Sat., R
 Singin' Sam, 7:30 and 11:15 p.m. Monday, C
 Smiling Ed McConnell, 6:30 p.m. Sunday, C
 Kate Smith, 7:30 p.m. Tues., Wed., and Thurs., C
 Oliver Smith, 5 p.m. Sunday, C
 Marion Talley, 10:30 p.m. Fri., R
 Benay Venuta, 6:00 p.m. Tuesday, C
 Helen Ward, 10:00 p.m. Tues., R

TALKS

Boake Carter, 7:45 p.m. daily except Sat. and Sun., C
 Rev. Charles E. Coughlin, 4:00 p.m. Sunday
 Jimmy Fidler, 10:30 p.m. Tuesday, R
 Edwin C. Hill, 7:15 p.m. Tues., Thurs., Sat., R
 Ted Husing, 7:15 p.m. Monday, C
 H. V. Kaltenborn, 1:45 p.m. Sun., C
 Public Opinion, 10:45 p.m. Monday, C
 Robert L. Ripley, 7:30 p.m. Sunday, B
 Sidewalk Interviews, 9:00 p.m. Tuesday, R
 Lowell Thomas, 6:45 p.m. daily except Sat. and Sun., B
 Trans-Atlantic Broadcast, 12:45 p.m. Sunday, C
 Voice of Experience, 6:45 and 11:30 p.m. Sunday, C
 Frederic William Wile, 6:00 p.m. Saturday, C
 Waiter Winchell, 9:30 and 11:15 p.m. Sunday, B
 Your English, 3:00 p.m. Sunday, B

FOREIGN B. C. STATIONS BY FREQUENCIES

Wavelength in meters is given in parentheses following frequencies in kilocycles. Entering dial number in square provided will enable you to identify stations heard. Power is given in second column in kilowatts and decimals thereof. Actual frequency is given in parentheses. While call letters are given wherever possible, very few European stations use these calls. Time is Local unless otherwise stated.

520 (576.6)

LKH .7 Hamar, Nor. (519)
 OFH 10. Viipuri, Fin. (527)
 RW34 10. Stalingrad, USSR. (522)
 1. Innsbruck, Aust. (519)
 5. Ljubljana, Yug. (527)
 5. Tartu, Est. (517)

530 (565.7)

11BZ 1. Bolzano, I. (536)
 16. Wilno, Pol. (536)

540 (555.2)

HAL 120. Budapest, Hun. (546)
 Budapest VIII, Sandor
 Utca No. 7.
 Weekdays 0045-1815;
 Sun. 315-1900 EST

550 (545.1)

RW52 20. Tchita, USSR. (556)
 2CR 10. Cumnock, Ausl.
 100. Beromunster, Sw.
 (556) Report to PTT,
 Berne, Speichergrasse
 No. 6.
 Weekdays 600-163
 Sun. 130-1630 EST

560 (535.4)

11PA 4. Palermo, I. (565)
 MTCY 100. Hsinking, Mch.
 RW41 1.2 Syktykar, USSR. (563)
 RW42 10. Gorki, USSR. (565)
 XG0H 10. Chongtu, China.
 XLHB .045 Shanghai, China.
 ZUG 10. Granthamtown, S. Af.
 6WA 10. Minding, Ausl.
 60. Athlone, IFS (565)
 Radio Atha Luain.
 Daily 830-1800 EST

570 (526)

CB57 5. Santiago, Chile. Soc.
 Nacional Agricultura
 Tcheliabinsk, USSR.
 (577)
 2YA 5. Wellington, N. Z.
 Featherstone St.
 Mon. to Sat. 700-900;
 1000-1100; Sun. 900-
 1215; 1300-1430; 1800-
 2200.
 100. Stuttgart, G. (574)
 Charlottenplatz No. 1
 Daily 0000-2000 EST
 10. Magnitogorsk, USSR.
 (571)

580 (516.9)

CC58 .5 Temuco, Chile. Luis
 E. Brain.
 JFCK 1. Taichu, Formosa.
 RW36 10. Archangel, USSR (586)
 RW54 10. Khabarovsk, USSR.
 XQHA .25 Shanghai, Chn.
 YLZ 15. Riga, Lat. (583)
 3WV 10. Horsham, Ausl.
 15. Grenoble, F. (583)
 Daily 300-1730 EST

590 (508.2)

JOAK2 10. Tokyo, Jap. M.
 Tomabecio, EST.
 Daily 4 a.m.-7:30 a.m.
 LS10 6. Buenos Aires, Arg.
 Radio Callao, Callao
 (666)
 RW35 10. Astrakhan, USSR (598)
 XHKB .1 Tengchow, China.
 7ZL 1. Hobart, Ausl.
 Elizabeth St. Mon. to
 Fri. 830-1030; 1200-
 1530; 1630-1800; 1900-
 100; Sat. 830-1000;
 1230-1300; Sun, 1200-
 300; 1630-1830; 1915-
 2400

..... 120. Vienna, Aust. (592)
 Wein No. 1, Johan-
 nesgrasse No. 4B
 Daily 310-1900 EST

600 (499.7)

CNR 25. Rabat, Mor. (601)
 Radio Maroc, Office
 Cherifien des Postes
 et Telegraphes.
 FJP .5 Noumea, New Caledo-
 nia.
 JONG .5 Miyazaki, Japan (CP)
 PRH2 25. Porto Alegre, Brz.
 (now building)
 RW82 2.5 Frounze, USSR. (608)
 SBD 10. Sundsvall, Swe. (601)
 XMHA 1. Shanghai, China.
 ZTC 10. Cape Town, S. Af.
 4QN 7. Clevedon, Ausl.

610 (491.5)

CX4 1. Montevideo, Uru.
 Direccion de Agrono-
 mia, Millan, 746; 10-
 12; 17-19
 11F1 20. Florence, I. EIAR
 Stazione di Firenze.
 Weekdays 1300-1730;
 Sun. 310-1730 EST
 JODK2 10. Seoul, Ko.
 KZRM 50. Manila, P. I. (618.5)
 Daily 600-2300
 RW18 1. Prtigorsk, USSR
 RW22 10. Oufa, USSR. (617)
 RWSO 2.5 Oust Abakansk, USSR
 (617)
 RW79 10. Murmansk, USSR.
 XGSS .015 Tsunshi, Chn.
 2FC 3. Sydney, Ausl.
 96 Market St. Mon. to
 Fri. 830-930; 1100-
 1300; 1330-1530; 1630-
 1745; 1900-1000; Sat.
 830-930; 1100-1830;
 1900-1000; Sun. 1130-

FOREIGN B. C. STATIONS BY FREQUENCIES

1345; 1630-1815; 1930-2400

620 (483.6)

- CB62 1. Santiago, Chl.
Radio Chilena.
CT1AA 20. Lisbon, Por. (629)
Emissora Nacional.
Daily 700-1900 EST
JOTK .5 Matsuyo, Jap. (625)
LKT 20. Trondelag, Nor. (629)
LV3 2. Cordoba, Arg.
RW31 10. Ivanovo, USR. (625)
XHHK .1 Shanghai, China
4ZP .5 Invercargill, N. Z.
R. T. Parsons, 155
Layard St. N., Mon.,
Wed. 1230-1330; 1830-
2130; Tues., Thurs.,
Fri. 1230-1330; 1900-
2200; Sat. 1830-2130;
Sun. 1100-1200; 1830-
2200.
No. 1 15. Brussels, Belg. la
Rue du Bastion
Weekdays 655-1800;
Sun. 445-1900 EST
..... 20. Cairo, Egypt.

630 (475.9)

- JODG .5 Hamamatsu, Jap.
(635)
LS3 5. Buenos Aires, Arg.
Radio Mayo, Callao
1526
OKP 120. Praha, Cz. (633) The
Radio Journal, Praha,
Cx. Daily 0030-1730
EST
RW28 .8 Vladivostok, USR.
(635)
RW32 10. Vladivostok, USR.
(635)
RW84 1.2 Oust-Abakansk, USR.
(635)
3AR 4.5 Melbourne, Ausl.
120A Russel St., Mon.
to Fri. 830-1100; 1300-
1900; 1930-2400; Sat.
830-1100; 1300-1900;
1930-130; Sun. 1225-
1630; 1810-2230

640 (468.5)

- CB64 1. Vina del Mar, Chile.
La Union, Av. Porta-
tales 528
CC64 .1 Concepcion, Chile. El
Sur, Freyre 799
JOUK .3 Akita, J. (645)
RW29 10. Petrozavodsk, USR.
(648)
RW56 1.2 Penza, USR.
YN 90. Lyons, F. (648). La
Doua (testing).
ZEK .5 Hong Kong, Chn.
GMT Mon., Thurs.,
Sat., from 12:30. The
Secretary, Hong Kong
Brdstg. Com., P. O.
Box 200.
ZTJ 10. Johannesburg, S. Af.
(645)
5CK 7.5 Crystal Brook, Ausl.

Relays 5CL Mon. to
Fri. 9-10; 1230-1600;
17-1830; 1930-130; Sat.
9-1030; Sun. 1230-
1530; 17-19; 1945-0030
Shanghai, Chn.

650 (461.3)

- CX6 10. Montevideo, Uru.
Estacion Oficial, Mar-
tin Fierro 2603. 12-
14; 17-23
JOCG .3 Asahigawa, J. (655)
Pres. NBC, Hokkaido
Asahikawa Branch,
EST Daily 11 p.m.-
7:30 a.m.
JQAK .5 Dairen, Mnch. (652)
1YA 10. Auckland, N. Z.
Karangahape Rd.
Mon. to Sat. 7-9; 10-
23; Sun. 9-1215; 13-
1630; 18-22
..... 100. Cologne, G. (658)
Dagoberlstrabe No. 38
Daily 0000-1800 EST

660 (454.3)

- XGOA 75. Nanking, Chn.
RW38 2. Alexandrovsk USR.
(662)
..... 20. Jerusalem, Pal. (668)
..... 50. Manchester, G. B.
(668) North Regional
Weekdays 515-1900;
Sun. 730-1745 EST

670 (447.5)

- JFAK 10. Taihoku, For.
LS4 7. Buenos Aires, Arg.
Radio Portena, Bel-
grano 1841
MTFY 3. Harbin, Mnch. (674)
RW23 1. Grozny, USR. (676)
YV6RV .35 Valencia, Vnz.
2CO 1. Corowa, Ausl.
Relays 3LO and 3AR.
Mon. to Fri. 830-13;
1330-1530; 1630-1745;
19-1; Sat. 830-1030;
1130-13; 1330-1830; 19-
100; Sun. 1130-1345;
1430-1815; 1930-2400
..... 100. Sottens, Swi. (677)
Report to PTT Berne,
Spelchergasse No. 6.
Weekdays 630-1630;
Sun. 355-1630 EST

680 (440.9)

- CW27 .15 Salto, Uruguay. Er-
nesto Popelka
HJN .5 Bogota, Col. (681)
JOLK .5 Fukuoka, J.
JOVK .5 Hakodate, J.
LKD .5 Bodo, Nor. (686)
RW17 10. Kazan, USR. (686)
RW27 4. Makhatch, USR. (689)
RW46 1.2 Karaganda, USR.
(686.5)
RW71 1.2 Petropavlovsk, USR.
(689)
RW74 1.2 Tcheboksary, USR.

..... 2.5 Belgrade, Yug. (686)
..... 1.5 Salisbury, S. Af.
(681.9)

690 (434.5)

- CX8 .5 Montevideo, Uru.
Ramon Puyal, Caigua
3710
LV6 Mendoza, Arg. Radio
Prov. de Mendoza.
XGOY .25 Kunming, China.
6WF 3.5 Perth, Ausl.
Hay St. Mon. to Fri.
1030-1230; 1400-1730;
1830-20; 21-3; Sat.
1030-12; 1430-3; Sun.
14-17; 1830-2030; 2115-
200
..... 7. Paris, F. (695) FPTT
Ecole Superieure des
Postes et Telegraphes
(Testing with 120 kw.)
Daily 300-1800 EST

700 (428.3)

- JOKK .5 Okayama, J.
PRA7 .05 Sao Paulo, Brz., Rua
Tibirica 26 (706)
RW48 2.5 Elista, USR. (704)
SBA 55. Stockholm, Swe. (704)
Weekdays 145-1700;
Sun. 3-17 EST
VPB 1.75 Colombo, Cey. (705)
XMHC .5 Shanghai, Chn.
ZP15 . Villarrica, Par.
2NR 7. Lawrence, Ausl.

710 (422.3)

- I1RO 50. Rome, I. (713)
Weekdays 130-1730;
Sun. 335-1730 EST
JOJK 3. Kanazawa, J.
LS1 5. Buenos Aires, Arg.
Radio Municipal,
Teatro, Colon
RW16 10. Samara, USR.
XGML .0075 Kashing, Chn. (714.3)
XGOS 1 Chunking, Chn. (711)

720 (416.4)

- JFBK 1. Tainan, For.
JORK .5 Kochi, J. Mr. Mat-
suo, Mgr., EST Daily
10:15 p.m.-7:30 a.m.;
Sun., 10:30 p.m.-7:30
a.m.
PRF2 .25 Rio Claro, Brz. (725)
Radio Club of Rio
Claro
PRG5 .75 Santos, Brz. Radio
Atlantica
RW9 36. Kiev, USR. (722)
XLXH .05 Shanghai, Chn.
XLHD .05 Shanghai, Chn.
3YA 10. Christchurch, N. Z.
Gloucester St. Mon.
to Sat. 7-9; 10-23;
Sun. 9-1215; 13-1630;
1730-22
6GF 2. Kalgortlie, Ausl.

730 (410.7)

- CB73 1. Santiago, Chile. UI-

FOREIGN B. C. STATIONS BY FREQUENCIES

timas Noticias. Com-
pania 1258
CX10 1. Montevideo, Uru.
Internacional Brd-
cstg. Industria 2840;
11-15; 16-24
EAJ2 3. Madrid, Sp. (731)
Radio-España
EAJ5 5.5 Seville, Sp. (731)
Daily 230-1630 EST
JOSK 1. Kokura, J. (735)
LV1 1. San Juan, Arg. Radio
Graffigna, C. de
Correo 44
RW65 1. Saransk, U.S.R. (734)
XHGS .05 Wuchow, Chn.
SCL 2. Adelaide, Austl.
Hindmarsh Square.
Same Schedule as
SCK, 640 kc.
..... 20. Tallin, Est. (731)

740 (405.2) []

OFD 1. Pari, Fin. (749)
PRE6 1.5 Uberaba, Brz.
RW64 10. Ordjonikidze, USSR.
(749)
XHHB .05 Shanghai, Chn.
2BL 3. Sydney, Austl.
96 Market St. Mon.
to Fri. 830-1100; 13-
19; 1930-2400; Sat.
830-11; 13-19; 1930-
130; Sun. 1225-1630;
18-2330
..... 100. Munich, G., Funk-
haus Rundfunkplatz
No. 1
Daily 0000-1800 EST
..... 5. Marseilles, F. (749) PTT
Daily 245-17 EST
..... 2. Sortavala, Fin. (749)

750 (399.8) []

HS7PJ 15. Bangkok, Siam
JOBK1 10. Osaka, J.
LR7 15. Buenos Aires, Arg.
Radio del Estado
LUHO .02 T'ung Hsien, Chn.
OAX4A 1.5 Lima, Peru. Daily 11
a.m.-1 p.m.; 6-7; 9-11
p.m.
PRA2 1.5 Rio de Janeiro, Brz.
Rua da Carcoça 45
PRA8 3. Pernambuco, Brz.
Ave. Cruz Cabuga 394
RW64 10. Urdjonikidze, U.S.R.
(752)
XGOK 1. Canton, Chn.
XQKB .15 Tientsin, China.
YV4RC .1 Caracas, Vnz.
ZTD 1.5 Durban, S. Af.
7NT 7. Kelso, Austl. Same
schedule as 7ZL, 590
kc.
..... 12. Katowice, Pol. (758)
..... 10. Maritzburg, S. Af.

760 (394.5) []

CB76 10. Valparaiso, Chl. Co-
op. Vitalicia, Agus-
tina 1253, 9 Piso
PRD9 .25 Sorocaba, Brz. (769)
Radio Soc. Sorocaba
RW78 3. Ijevsk, U.S.R. (767)

XLHI .0075 Shanghai, Chn.
XLHJ .015 Shanghai, Chn.
2YB .1 New Plymouth, N. Z.
Empire Bldg., King
St. Mon. 19-22; Wed.
1830-22; Sat. 1330-17;
1830-22; Sun. 18-22
..... 50. Falkirk, G. B. (767)
Scottish Regional
Weekdays 15-19;
Sun. 730-1730 EST

770 (389.4) []

CX12 1. Montevideo, Ur.
Radio Westinghouse,
Itacabo 2620; 10-23
JOHK 10. Sendai, J.
LKF 1. Frederikstad, N. (776)
RW26 10. Stalino, U.S.R. (776)
VUM .2 Madras, In.
3LO 3.5 Melbourne, Austl.
120A Russel St. Mon.
to Fri. 830-930; 11-13;
1330-1530; 1630-1745;
19-1; Sat. 830-930; 11-
1830; 19-1; Sun. 1130-
1345; 1630-1815; 1930-
24
..... 2. Toulouse, F. (776)
PTT Daily 330-1730
EST

780 (384.4) []

CB78 1. Santiago, Chile. Co-
operative Vitalicia,
Agustina 1253, 9 piso
JOPK .5 Shizuoka, J.
KZEG 1. Manila, P. I.
Daily 8-20
LT1 4. Rosario, Arg. Radio
Litoral, Cordoba 1049
PRE7 5. Sao Paulo, Brz. (788)
Radio Cosmos, Praca
Marechal Deodora 52
XLHA .05 Shanghai, Chn.
..... 120. Leipsig, G. (785)
Temporarily on low
power.
Daily 00-18 EST

790 (379.5) []

EAJ1 7.5 Barcelona, Sp. (795)
Union Radio. Daily
215-19 EST
JOGK 10. Kumamoto, J.
LR10 10.25 Buenos Aires, Arg.
Radio Cultura, Bel-
grano 1841
RW51 1. Naltchik, U.S.R. (794)
XLIJ .05 Wusih, China
ZTB .5 Bloemfontaine, S. Af.
4YA 10. Dunedin, N. Z. Stuart
St. Mon. to Sat. 7-9;
10-23; Sun. 9-1215; 13-
1630; 1730-22
..... 16. Lwow, Pol. (795)
Polskie Radjo SA,
Rozglosnia we Lwowie
Daily 1-18 EST

800 (374.8) []

JOKG .5 Kofu, Japan. (CP)
PRB7 .5 Rio de Janeiro, Brz.
XLHK .0075 Shanghai, Chn.

XLHL .1 Shanghai, Chn.
4QG 2.5 Brisbane, Austl. State
Insurance Bldgs.
Mon. to Fri. 830-1030;
12-1530; 1630-18; 19-1;
Sat. 830-10; 1230-1;
Sun. 12-15; 1630-1830;
1915-24
..... 50. Cardiff, G. B. (804)
West Regional
Weekdays 515-1900;
Sun. 730-1745 EST

810 (370.2) []

CX14 5. Montevideo, Uru.
El Espectador Ltd.,
Lanus 5760. 10-24
HIMI 50. Milan, I. (814)
Radio Milano, Corso
28, Ottobre 102, Mi-
lano 134
Weekdays 130-1730;
Sun. 330-1730 EST
JOCK1 10. Nagoya, J.
PRA6 10. Sao Paulo, Brz. (815)
Radio Educadora
Paulista, Rua Jose
Bonifacio 12
VUC 3. Calcutta, In.
XQKC 2. Tientsin, China

820 (365.6) []

CB82 1. Santiago, Chl. El
Diario Ilustrado.
Moneda 1158. 9-10;
12-14; 16-1830; 20-24
CW23 .25 Salto, Uruguay. Mo-
desto Liantada
LV7 1. Tucuman, Arg.
G. Acha Munoz y Cia.
Mendoza 437
PRH8 5. Rio de Janeiro, Brz.
Radio Ipanema
XLKB .055 Tientsin, Chn.
ZZH .065 Napier, N. Z.
C. B. Hansen & Co.,
59 Latham St., Mon.,
Tue., Fri., 12-14; 19-
22; Wed. 12-14; 1830-
2230; Thu. 12-14; Sat.
10-17; 19-23; Sun. 12-
15; 1830-22
7HO 1. Hobart, Austl. 82 Eliz-
abeth St. Mon. to
Sat. 930-1030; 1330-
1530; 1900-0030; Sun.
2130-2300
..... 12. Bucharest, Ru. (823)
Weekdays 6-1730;
Sun. 430-1830 EST

830 (361.2) []

JOIK 10. Sapporo, J. T. Okada,
Chf. Engr. EST Daily.
4 a.m.-7:30 a.m.
LR5 29. Buenos Aires, Arg.
Radio Excelsior, Mal-
pu 462
RW39 100. Moscow, U.S.R. (832)
Inna Marr, Esq.
Moscow-Stalin Radio
Station.
Daily 9-1630 EST
XGF .0075 Tsinan, Chn. (833)
XLII .03 Wuhu, Chn.
3GI 7. Longford, Austl.

FOREIGN B. C. STATIONS BY FREQUENCIES

840 (356.9)

- CB84 .1 Talcahuano, Chile. Francisco Morales. Aidea 96
- F31CD 12. Saigon, Indo. Cie Generale de Telegraphie sans Fil, P.O. Box, 238
- LT8 .5 Rosario, Arg. Julio Blomberg, Sarmiento 958
- PRA4 .05 Bahia, Brz. Radio Soc. da Bahia
- XGTM .015 Chang-sha, Chn. Shanghai, Chn.
- XHHA 1. Hongkong, C. (845) The Secretary, Hong Kong Brdcastg. Com., P. O. Box 200.
- ZBW 2. Wellington, N. Z. Featherstone St. Mon. to Sat. 17-18; 19-22; Sun. 18-22
- 100. Berlin, G. (841) Radio Reichssender, Berlin Brdcastg. House Daily 0000-1800 EST

850 (352.7)

- CX16 10. Montevideo, Ur. SADREP, Av. S. Martinez 13500
- EAJ3 3. Valencia, Sp.
- HSP1 2.5 Bangkok, Siam (856)
- JOFK 10. Hiroshima, J.
- LKA .35 Aalesund, Nor.
- LKB 1. Bergen, Nor.
- LKP 1. Porsgrund, Nor.
- PRB3 .25 Juiz de Fora, Brz. (857) Radio Soc. de Juiz de Fora, Parque Halfeld Simferopol, USR. (859)
- RW73 10. Nairobi, Ken. (858)
- VQ7LO .6 Bombay, In. (855)
- VUB 3. Hangchow, China
- XLIQ .05 Shanghai, Chn.
- XQHB .1 Renmark, Ausl. River Murray Brdcasters, Ltd., 29 Rundle St., Adelaide
- 1. Sofia, Bul.
- 35. Strasbourg, F. (859) Radio Strasbourg PTT, 30 Rue de 22 Nov. Weekdays 545-19; Sun. 1630-19 EST

860 (348.6)

- PRA3 2.5 Rio de Janeiro, Brz. Radio Club de Brasil, Rua Betancourt da Silva 21
- XGOF .5 Tsinan, China.
- XHHD .05 Shanghai, China. Poznan, Pol. (868) Daily 1-18 EST
- 16. Paris, F. (868) AGEN
-6

870 (344.6)

- JOAK1 10. Tokyo, J. M. Tomabecio, EST Daily 4 a.m.-7:30 a.m.

- LR6 26. Buenos Aires, Arg. La Nacion, Florida 347
- RW85 2. Igarka, USR. (871)
- XL1L .05 Suchow, Chn.
- ZGB 1. Sydney, Ausl. "The Nation's Station", Adyar House, 29 Blich St., Mon. to Sat. 830-1; Sun. 930-1330; 1415-24
- 50. London, G. B. (877) London Regional. Weekdays 515-1930; Sun. 730-1745 EST

880 (340.7)

- LV2 2. Cordova, Arg. Radio Central, San Lorenzo 339
- PRB2 .25 Curityba, Brz. (882) Radio Club Paranaense
- RW61 1. Iochar-Ola, USR. (888)
- VUD 20. Delhi, India. (882)
- XHHV .1 Shanghai, Chn.
- YV3RC .1 Caracas, Venez. (882)
- 1YX .5 Auckland, N. Z. Karangahape Road Mon. to Sat. 17-18; 19-22; Sun 18-22
- 6PR .5 Perth, Ausl. Barrack St., Mon. to Sat. 1030-12; 14-1530; 21-2; Sun. 2330-130
- 7. Graz, Aust. (886) Daily 310-19 EST

890 (326.9)

- CB89 1. Santiago, Chile. Otto Becker, Ahuamada 113
- CX18 1. Montevideo, Uruguay Difusora El Espectador, Ltda., Olimar 1364
- JOLG .5 Tottori, Japan. (CP)
- MTBY 1. Mukden, Mnch.
- OFA 10. Helsinki, Fin. (895)
- XGKA .015 Kasking, Chn. (895)
- ZP9 1.5 Asuncion, Par. (898)
-5 Limoges, F. (895)

900 (333.1)

- CB90 1. Valparaiso, Chile. El Mercurio de Val., Casino de Vina del Mar.
- JODK1 10. Seoul, Korea
- KZ1B 1. Manila, P. I. Daily 10-20
- LU2 2. Bahia Blanca, Arg. Radio Bahia Blanca. Sao Paulo, Brz. (CP 60 kw) Radio Difusora Sao Paulo.
- XGOI .5 Shanghai, China.
- XGTM .1 Tongchow, Chn.
- ZZP .105 Walroa, N. Z. E. A. Perry, 128 Queen St. Tue. 7-9; 18-2230; Wed. to Sat. 7-9; Sun. 730-930.
- 3MA .05 Mildura, Ausl. 22 Deakin Ave. Mon. to Thu. 9-10; 12-13. 1930-24; Fri. 9-10; 12;

- 13; 1930-0030; Sat. 9-10; 1930-0030; Sun. 1230-1530; 1945-2330.
- 4WK .05 Warwick, Ausl. King and Albion Sts. Daily 1230-1530; 19-2330.
- 100. Hamburg, G. (904) Radio Reichssender Hamburg. Daily 00-18 EST

910 (329.6)

- LR2 12. Buenos Aires, Arg. Radio Argentina, Bolivar 1356
- RW30 10. Dnepropetrovsk, USR., (913)
- XLIM .05 Hanim, Chn.
- 4RK 2. Rockhamton, Ausl. Relys 4QG. Same schedule as 4QG, 800 kc.
- 60. Toulouse, F. (913) Villa Schmidt, Rue Monie. Daily 3-1930 EST
-5 Limoges, F. (913)

920 (325.9)

- JOQK .5 Niigata, J.
- OKB 32. Brno, Cz. (922) Daily 0030-1730 EST
- PRC3 .25 Pelotas, Brz. Soc. Radio Pelotense
- PRF4 1. R'de Janeiro, Brz. (923). Soc. Anonima "Journal do Brasil"
- XHHX 1. Shanghai, Chn.
- ZZR .015 Nelson, N. Z. Trafalgar St. Temporarily silent.

930 (322.4)

- CB93 3. Santiago, Chile. Huke, Providencia 1022
- CX20 2. Montevideo, Uru. Radio Monecario, Humberto I No. 3. 11-1430; 16-24
- JOAG .5 Nagasaki, J.
- PRD2 1. R'de Janeiro, Brz. (932) Soc. Radio Cruzeiro do Sul; Rua Mariz e Barros 270
- RW55 1. Engels, USR. (932)
- VUG 1. Delhi, India
- XGON .2 Nanking, China.
- 3UZ .65 Melbourne, Ausl. 45 Bourke St. Mon. to Thu. 830-1530; 1645-100; Fri. 830-16; 1645-100; Sat. 830-1330; 1930-130; Sun. 1130-1400; 1915-2330
- No. 2 15. Brussels, Belg. (932) Weekdays 7-19; Sun. 5-19 EST

940 (319)

- JONK .5 Nagano, J. K. Yanada, Dir. EST Daily 4-1930

FOREIGN B. C. STATIONS BY FREQUENCIES

PRE4 .25 Rio de Janeiro, Brz. (941). Soc. Radio Cultura "A Voz do Espacao"
SBB 10. Göteborg, Swe. (941) Weekdays 145-17; Sun. 3-17 EST
XHHE .1 Shanghai, Chn.
3ZR .4 Greymouth, N. Z. West Coast Radio Soc., Bright St., Cobden. Mon. to Fri. 730-830; 15-17; 18-19; 1930-22; Sat. 730-830; 1330-17; 18-21; Sun. 12-1330; 1730-1830; 19-21.
 12. Algiers Alg. (941) Radio PTT du Govt. Gen., Rue Berthezene, Alger, Algeria, N. Af. Daily 8-18 EST

950 (315.6)

LR3 31. Buenos Aires, Arg. Radio Belgrano, Belgrano 1841
PP 60. Paris, F. (959) Poste Parisien, 4 Rue du General-Foy. Daily 210-18 EST
PRF8 .5 Bahia, Brz. (959) Radio Commercial da Bahia
RW40 1. Gomel USSR. (959)
RW54 1. Gomel USSR. (959)
XGOP .3 Peiping, Chn.
ZTP .5 Pretoria, S. Af. (952)
2UE 1. Sydney, Ausl. Rex Shaw, 296 Pitt St., Mon. to Fri. 730-15; 16-1; Sat. 730-1230; 1500-130; Sun. 930-1330; 1815-0030.
 100. Breslau, G. Schlesische Funkstunde, GMBH, Breslau 18 Daily 23-18 EST

960 (312.3)

CC96 .1 Curico, Chile. Merced 11
JOOK .3 Kyoto, J.
PRB4 1. Santos, Brz. Radio Club de Santos, Rua de Pedro II 16.
RW13 10. Odessa USSR. (968)
RW67 2. Oukhta, USSR. (968)
RW69 10. Odessa, USSR. (968)
XHHF .1 Shanghai, Chn.
YV1RC 5. Caracas, Venz. (961) Brdctsg. Caracas, Apt de Correos 2009, Sun. 9-23; Weekdays 16-2230.
2ZF .25 Palmerston, N. Z. King St., Mon., Thu., Sat., 20-22; Wed. 1815-22; Fri., Sun., 19-2130
5DN .3 Adelaide, Ausl. 29 Rundie St., Mon. to Fri. 915-115; Sat. 915-15; 20-115; Sun. 845-0015.

970 (309)

CB97 1. Santiago, Chile.
CX22 .25 Siam, Bolivar 1551 Montevideo, Uru. Fada Radio, Larranga 278. 1030-1530; 17-23
JOBG .5 Maebashi, J.
XHIB .075 Wusih, Chn.
3BO 2. Bendigo, Ausl. Kangaroo Flat. Mon. to Fri. 1230-1500; 19-24; Sat. 1230-24; Sun. 1130-1430; 2030-2330
 100. Belfast, GB (977)

980 (305.9)

CNO .025 Casablanca, Mor. (983)
1IGE 10. Genoa, I. (986) EIAR Stazione di Genova. Weekdays 130-1730; Sun. 310-1730 EST
JOXK .5 Tokushima, J. T. Tsutsumi, Chf. Engr. EST Daily 2205-730; Sun., 2230-730
OAX4E .05 Lima, Peru, Juan P. Golncochea, Jiron Ocona No. 158
PRC6 1. R'de Janeiro, Brz. Soc. Radio Philips, Rua Sacadura Cabral 43
XMHB .5 Shanghai, Chn.
2LV .. Invernell, Ausl.
2ZJ .06 Gisborne, N. Z. 229 Gladstone Rd. Mon., Fri., Sat., 19-22; Tues., Wed., 12-1330; 19-22; Thurs., 19-20
4AY .1 Ayr., Ausl. Norman L. Dahl, Airdmillon Rd. "The Voice of the Cane Fields" Mon. to Sat. 16-1830; 1930-24; Sun. 2130-2330
6AM 1. Northam, Ausl. Mon. to Sat. 10-12; 1530-1730; 21-2; Sun. 1330-1730; 1830-2030; 2130-130
 24. Torun, Pol. (986) (Testing)

990 (302.8)

JOFG .3 Fukui, J.
LR4 16. Buenos Aires, Arg. Radio Splendid, Cal-lao 1526. Daily 11-24
Hilversum, Hol. (995) Heir Radio Hilversum, Ouden Engweg, 4. Daily 310-1810 EST
PFBI 60. Chuching, Chn. Hangchow, Chn.
XGCK .075
XGOD 1. Hangchow, Chn.
2GZ 2. Orange, Ausl.

1000(299.8)

HJ3ABH 2. Bogota, Col. (1005) "La Voz. de La Victor", Apto 565. Sun.,

12-14; 16-21; Wednesdays 1130-14; 18-23
OKR 13.5 Bratislava, Cz. (1004) Daily 0030-1730 EST
PRA9 1. Rio de Janeiro, Brz. Radio Soc. Mayrink Veiga, Rua Mayrink Veiga 17
PRB8 .05 Mogy das Cruzes, Brz.
XGKM .015 Poatung, Chn. (1005)
XGOT .05 Taiyuan, Chn.
ZP3 .3 Asuncion, Par.
4GR .5 Toowoomba, Ausl. Ruthven St. Mon. to Fri. 8-1530; 19-2330; Sat. 8-1130; 1930-2330; Sun. 1130-1430; 030-2330

1010(296.9)

CB101 1. Santiago, Chile. Radio Mayo, Bander 154
CX24 2.5 Montevideo, Uruguay SADRPE, Las Rozas 756
PRB9 5. Sao Paulo, Brz. (1017) Radio Soc. Record, Praca da Republica 17
RW86 5. Tchernigov, USSR. (1013)
XGOW 5. Hangkow, Chn.
3HA .3 Hamilton, Ausl. 37 Gray St., "The Age Brdctsg. Service", Mon. to Sat. 830-1030; 1330-1745; 1915-2400; Sun. 1230-1800; 2015-0030
4ZB .025 Dunedin, N. Z. 180 Rattray St. Wed., Thu. 18-23; Sun. 10-12
4ZM .003 Dunedin, N. Z. McCracken & Wells, 17 George St. Mon., Wed., Thu., Fri. 9-1145; 13-14; Tue. 9-1145; 13-14; 18-23; Fri. 10-12; 13-14; Sat. 9-12; 17-22; Sun. 14-22
4ZO .025 Dunedin, N. Z. Mon. 12-13; 14-15; 20-23; Tue., Wed., Thu., 12-13; 14-15; 17-18; Fri. 12-13; 14-15; 17-18; 19-23; Sat. 12-13
 50. Davenport, G.B. (1013) Midland Regional. Weekdays 545-1815; Sun. 1130-1745 EST

1020(293.9)

EAJ15 3. Barcelona, Sp. (1022)
EAJ19 .7 Oviedo, Sp. (1022)
JBAK .5 Lizaan, Korea
OBJ ... Lima, Peru. Escuela Militar de Chorrillos. Shanghai, Chn.
XHHG .1 Sydney Ausl. The Block, George St. Mon., Tue., Thu., Fri. 815-1330; 1430-17; 1745-0030; Wed. 815-1330; 14-0030; Sat. 815-1240; 14-18; 1845-

FOREIGN B. C. STATIONS BY FREQUENCIES

0030; Sun. 9-0030
 2. Cracow, Pol. (1022)

1030(291.1) []

CD103 .1 Magallanes, Chile.
 Ramon Verde Sanchez, Mexicana 936
 CT1GL 5. Parede, Por. (1031)
 Radio Club Portuguese.
 LR9 5. Buenos Aires, Arg.
 Radio Fenix, Santa Fe 1174
 PRC8 1. Rio de Janeiro, Brz.
 Radio Soc. Guanabara, Rua 1st de Mayo 123
 XGOL .25 Fochow, Chn.
 YV11RMO . Maracaibo, Venz. (1034)
 3DB .6 Melbourne, Ausl.
 36 Flinders St. Mon. to Fri. 8-1; Sat. 8-130; Sun. 1130-1330; 1530-24
 100. Konigsberg, G. (1031)
 Daily 00-18 EST

1040(288.3) []

CP4 10. La Paz, Bol.
 Carlos Lopez Vedela, Casilla 637
 CW25 .5 Durazno, Uru.
 Artola Evangelisti y Cia. 10-13; 18-23
 JOJG .5 Yamagata, Japan
 RW70 10. Leningrad, USSR.
 XHHH .1 Shanghai, Chn.
 SPI 2. Port Pirie, Ausl.
 Relays 5AD. Mon. to Fri. 8-16; 19-1; Sat. 8-16; 17-1; Sun. 1930-24
 40. Rennes-Bretagne, F.
 Daily 3-1730 EST

1050(285.5) []

CX26 2. Montevideo, Uru.
 Radio Uruguay, Millan 2370. 9-1430; 16-23
 I1BA 20. Bari, I. (1059) E1AR
 Stazione di Bari Weekdays 130-1730; Sun. 335-1730 EST
 PRF6 .05 Bahia, Brazil. Radio Club da Bahia
 RW33 1. Krasnodar, USSR.
 XHKA 1. Tien-tsin, Chn.
 2CA .5 Canberra, Ausl. Mon. to Fri. 14-15; 19-2330; Sat. 1930-2330; Sun. 2130-2330
 50. Falkirk, G. B. Scottish National. Weekdays 545-1815; Sun. 1130-1745 EST

1060(282.8) []

CB106 1. Santiago, Chi.
 Sud America, Gol-colea 0122-11-13; 17-18

RW57 4. Tiraspol, USSR. (1068)
 XHHI .1 Shanghai, Chn.
 3YB .025 Melbourne, Ausl.
 430 Little Collins St. Mon. to Sat. 20-24; Sun. 2030-2330
 4MB .05 Maryborough, Ausl.
 Wynne's Stn. Mon. to Fri. 10-1130; 1330-1530; 20-2330; Sat. 10-1130; 1330-1530
 2. Paris, F. (1068)
 Radio-Cite

1070(280.2) []

LR1 50. Buenos Aires, Arg.
 Radio El Mundo, Maipu 555
 PYG2 10. Sao Paulo, Brz. Radio Tupy Sao Paulo
 XGOX .1 Honan-fu, Chn.
 XKRI .2 Canton, Chn. (1071)
 30. Bordeaux, F. (1077)
 Bordeaux - Lafayette Hotel des PTT, 220 Chemin de Tondou
 Daily 300-1730 EST

1080(277.6) []

JOBK2 10. Osaka, J. (1085)
 JOOG .5 Obihiro, Japan (CP)
 LT3 4.5 Rosario, Arg. Radio Soc. Rural de Cerealistas, Pte. Roca 770
 OAX4F .05 Lima, Peru
 F. V. Castellano & Hno. Opens and closes "Anchors Aweigh" Daily except Sun., 15-17 EST
 SCC 2. Falun, Swe. (1086)
 XHHJ .2 Shanghai, Chn.
 ZP7 .7 Asuncion, Par. (1083)
 2AD . Armidale, Ausl.
 3SH .05 Swan Hill, Ausl.
 Mon. to Sat. 14-15; 2030-24; Sun. 1345-1545; 1745-1930; 2045-2330
 7. Zagreb, Yu. (1086)

1090(275.1) []

CC109 .1 Rancagua, Chile.
 Jorge Romero, Independencia 483
 CX28 3. Montevideo, Uru.
 EAJ7 10. Madrid, Sp. (1095)
 Union Radio Station EAJ7, Apto 745.
 Daily 3-19 EST
 PRC2 3. Porto Alegre, Brz.
 Radio Soc. Gaucha, Galerie Chaves
 PRC7 .25 Bello Horizonte, Brz.
 Soc. Radio Mineira Vinnitza, USSR. (1095)
 RW75 10. Loyang, Chn.
 XGLOB .25 Shaohing, China
 XL10 . Auckland, N. Z.
 1ZB .1 153 Krangahape Rd. Tue. to Fri. 9-930; 1015-1100; 1830-2130; Sat. 9-930; 1015-11; 1515-1645; Sun. 9-12; 1830-2130

1100(272.6) []

HJ3ABD.05 Bogota, Col.
 Alford's Radio, Calle 16. No. 5-40
 I1NA 1.5 Naples, I. (1104)
 XHHH .1 Shanghai, Chn.
 7LA .3 Lancaster, Ausl.
 67 Brisbane St. Mon. to Fri. 9-1030; 1330-1530; 19-24; Sat. 9-1030; 16-1830; 19-24; Sun. 1915-2330
 50. Madona, Lat. (1104)
 Weekdays 00-1630; Sun. 200-1700 EST

1110(270.1) []

CB111 1. Vina del Mar, Chile.
 Los Castanos, Av. Castanos 393
 CD111 .1 Magallanes, Chile.
 Radio Austral, Independencia s/n 20-23
 L55 5. Buenos Aires, Arg.
 Radio Rivadavia, Callao 1526
 OKK 11.2 Moravska, Cz. (1113)
 Daily 0030-1730 EST
 2UW 1. Sydney, Ausl., J. M. Prentice, Box 241D.
 GPO. "At the Cross Roads of Sydney," 24 hours daily.
 10. Normandie, F. (1113)
 Fecamp Daily 2-21 EST
001 Suchow, Chn.

1120(267.7) []

CD112 .1 Osorno, Chile. David Arriagada, Baquedano 715
 CW29 .05 Mercedes, Uru.
 Bautista Abbo. 1130-13; 1830-2230
 HAE 6.2 Nyiregyhaza, Hung. (1122)
 LV5 .5 San Juan, Arg.
 Radio Los Andes, G. Acha 362
 OAX41 . Lima, Peru. Radio Internacional
 PRH3 10. Sao Paulo, Brz.
 Radio Piratinga
 XLHM .05 Shanghai, Chn.
 XLHN .2 Shanghai, Chn.
 4BC 1. Brisbane, Ausl., R. F. Roberts, 43 Adelaide St., Mon. to Fri. 8-0030; Sat. 8-11; 1330-0030; Sun. 830-1330; 1630-24
 5. Alexandria, Eg. (1122)
 1. Newcastle, G.B. (1122)

1130(265.3) []

CX30 .5 Montevideo, Uru.
 Radio Nacional, Pervenir 2384. 9-24.
 PRD8 1. Nitheroy, Brz. (1132)
 Radio Club Fluminense
 SBH 10. Horby, Swe. (1131)

FOREIGN B. C. STATIONS BY FREQUENCIES

XGOC .25 Weekdays 145-1700;
Sun. 3-17 EST
ZP1 1. Nan-chang, Chn.
6ML .5 1. Asuncion, Par. (1135)
Perth, Ausl.
Lyric House, Murray
St. Mon to Fri. 1030-
1230; 1430-16; 21-2;
Sat. 1030-1230; 1430-
16; 2130-2; Sun. 2230-
130

1140 (263)

CB114 1. Santiago, Chile. Chi-
lena Consolidada, E.
Llanos 35
11TO 7. Turin, I.
Weekdays 130-1730;
Sun. 310-1730 EST
XHHL .1 Shanghai, Chn.
2HD .5 Newcastle, Ausl.
Box 123. Mon. to Fri.
730-1530; 1630-1730;
19-24; Sat. 730-1530;
1630-1730; 19-130;
Sun. 1030-1330; 1630-
1730; 1830-130
4YO 1.5 Dunedin, N. Z.
Mon. to Sat. 17-18;
19-22; Sun. 18-22
..... 20. London National,
G.B. (1149)
..... 20. North National, G.B.
(1149)
Weekdays 545-1815;
Sun. 1130-1745 EST
..... 20. West National, G.B.
(1149)
Same as North
National

1150(260.7)

HC2ET .3 Guyaquil, Ec. (1153)
HJ1ABM .05 Cartagena, Cib. (1154)
LR8 7. Buenos Aires, Arg.
Radio Paris, Cangallo
860
OAX4H . Lima, Peru. Radio
Davila, Aptdo. 373
XGOZ 1. Chinkiang, Chn.
YV7RMO .5 Maracaibo, Venz.
(1153)
2WG .2 Wagga, Aus.
16 Fitzmaurice St.
Mon. to Sat. 930-1030;
1330-1530; 1930-24;
Sun. 2130-2330
2ZM .015 Gisborne, N. Z.
Mon., Tue., Wed., Fri.,
Sat. 915-1015; Thu.
915-1015; 20-2230;
Sun. 19-22
..... 2.6 Kosice, Poland (1158)

1160(258.5)

CB116 .1 Valparaiso, Chile.
Radio Valparaiso,
Prat 773
CW31 .25 Salto, Uru.
Salvador E Pera. 9-
1230; 16-23
LT5 .5 Resistencia, Arg.
Radio Chaco, Av. 9
de Julio

XHHU .1 Shanghai, Chn.
2KA .1 Katoomba, Ausl.
80 Market St.
4MK .1 Mackay, Ausl.
64 Nelson St., Mon. to
Fri. 11-1230; 15-19; 20-
0030; Sat. 11-19; 20-
0030; Sun. 1130-14;
1630-1830; 20-23
..... 15. Mte. Ceneri, Sw.
(1167)
Report to PTT Berne,
Speighergrasse No. 6
Weekdays 6-17; Sun.
430-1630 EST

1170(256.3)

CC117 .1 Concepcion, Chile.
Zenith, Rolando
Beckdorf, Av. Argenti-
nina 977
CX32 .5 Montevideo, Uru.
Radio Marconi, Gen.
Hornos 537. 10-2
JOCK2 10. Nagoya, J. (1175)
PRB6 1. Sao Paulo, Radio
Cruceiro do Sul, Lar-
go da Misericordia 4
Campinas, Brz. (1175)
PRC9 .25 Radio Educadora di
Campinas
XLIE .05 Wusih, Chn.
2NZ 2. Narrabri, Ausl.
2ZD .005 Masterton, N. Z.
W. D. Ansell, 7 Rilmu
St. Daily 20-22. Re-
lays 2YA Tue., Fri.,
Sat., Sun.
4TO .2 Townsville, Aus.
Mon., Tue., Thu.,
Fri. 9-1; 1330-1530;
1930-2345; Wed., Sat.,
9-10; 15-19; 1930-2345;
Sun. 2030-2330
..... 10. Cophgen., Den. (1176)
Strats Radio Fonien
Heibergsgrade No. 7

1180(254.1)

CB118 1. Santiago, Chile. Ra-
dio Bayer, Portal Fer-
nandez Co. 960
LKM .1 Tromsø, Nor. (1186)
RW20 .1 Kharkov, USR. (1185)
XHHZ .15 Shanghai, Chn.
3KZ .6 Melbourne, Ausl., S.
Morgan, 64 Elizabeth
St., "The Brighton
Brdc. stg. Service."
24 Victoria St. Mon.
to Fri. 8-1530; 16-18
1830-100; Sat. 8-1215;
1345-230; Sun. 16-18;
1930-24

1190(252)

LS2 30. Buenos Aires, Arg.
Radio Prieto, Bolivar
1356
OAX4H . Lima, Peru. Radio
Zenith, Casa Davile
XLKA .03 Peiping, Chn. (1194)
2CH 1. Sydney, Ausl.

77 York St., Mon. to
Fri. 830-15; 1630-0030;
Sat. 830-14; 1445-0030;
Sun. 12-14; 16-2330
Frankfurt, G. (1195)
Eschersheimer Lands-
trabe No. 33
Daily 00-20 EST
..... 5. Freiburg, Ga. (1195)
..... 5. Kaiserslautern (1195)
..... 2. Trier, G. (1195)
..... 5. Cassel, G. (1195)
..... 2. Coblenz, G. (1195)

1200(249.9)

CB120 1. Valparaiso, Chile.
Chilena Consolidada,
Edwards 383
HJ3ABE 1. Bogota, Cib., U.
Bogota y Moreno, P. Oribe
317.
LT9 .5 Santa Fe, Argentina.
Radio Roca Soler
OAX4B .25 Lima, Peru
PRD3 .25 Taubate, Brz. (1207)
Soe. Radio Banderi-
ante
XHHN .1 Shanghai, Chn.
YV3RC 3. Caracas, Vnz.
Bajos Pasaje Ramella
Lahore, India
VUL .1 Christchurch, N. Z.
Mon. to Sat. 17-18;
19-22; Sun. 18-22
3YL .5 Adelaide, Ausl.
5KA .3 Richards Bldg., Mon.
to Fri. 830-1; Sat. 830-
2; Sun. 12-14; 17-18;
1845-100
No. 2 5. Praha, Cz. (1204)
..... Bangkok, Siam

1210(247.8)

CD121 .1 Osorno, Chile. Radio
Austral, E. Ramirez,
2930
CX34 .5 Montevideo, Uru.
Radio Artigas, Millan
2370. 10-16; 18-23
LV10 .5 Mendoza, Argentina.
Radio de Cuyo
OA4AR .025 Lima, Peru
OA4D .025 Lima, Peru
XHKC .1 Tsingtao, China
XLPH .015 Pinghu, Chn.
XLTC .015 Wusih, Chn.
2GF .05 Grafton, Ausl.
47 York St., Mon. 9-
10; 1330-1430; 1930-
2330; Tue. to Sat. 9-10;
1430-1530; 1930-2330
6KG .085 Kalgoorlie, Ausl.
86 Palace Chambers.
Mon. to Fri. 1430-1630
22-2; Sat. 1730-2030;
2230-2; Sun. 2315-0130
..... 60. Lille, F. (1213) Radio
PTT Nord (testing)
Daily 3-1730 EST

1220(245.8)

I1TR 10. Trieste, I. (1222)
Weekdays 130-1730;
Sun. 310-1730 EST
PRE3 10. Rio de Janeiro, Brz.

FOREIGN B. C. STATIONS BY FREQUENCIES

Radio Transmissora Brasileira
PRG9 .5 Sao Paulo, Brazil.
Radio Excelsior.
XGOT .5 Pei-ping, Chn.
4AK 1. Oakey, Ausl.
Daily 19-0030
4ZL .1 Dunedin, N. Z.
 243 Macandrew Rd.
 Mon., Thu., Sat. 8-9;
 1930-23; Tue., Wed.,
 Fri. 8-9; Sun. 830-1030
 3 Narvik, Norway (1222)

1230(243.8)

HJ4ABK .3 Medellin, Clb.
LS8 15. Buenos Aires, Arg.
 Radio Stentor, Florida 8
XLIR .05 Hangchow, China
2NC 2. Newcastle, Ausl.
 Relays 2FC and 2BL
 Mon. to Fri. 830-1530;
 1630-1745; 19-100;
 Sat. 830-1030; 1130-
 1830; 19-100; Sun.
 1130-1815; 1930-24
 5. Gleiwitz, G. (1231)

1240(241.8)

CB124 .25 Valparaiso, Chile. A.
 Garcia y Cia., Av.
 Brasil 212
CW35 .25 Paysandu, Uru.
 Buenaventura y
 Mahler. 9-13; 17-22
LU7 2. Bahia Blanca, Argenti-
 na. Radio Ge. San
 Martin, Calle Saro-
 mento 60
LV-14 .5 La Rioja, Arg.
 Radio Provincia de La
 Rioja
XHHY .1 Shanghai, Chn.
2ZL .05 Hastings, N. Z.
 John Holden, 609
 Park Rd. Thurs.,
 1830-23; Sun. 930-1200
3TR .5 Sale, Ausl. A Gil-
 christ, Raymond St.,
 "Gippsland's Radio
 Station."
 Mon. to Fri. 12-15;
 19-24; Sat. 12-1430;
 1930-24; Sun. 20-24
 1. Cork, I. F. S.
 Perth, Ausl.
 St. George's Terrace.
 Mon. to Fri. 1230-1430
 2130-230; Sat. 1230-
 1545; 2130-230; Sun.
 17-1830; 2130-200
 2. Juan-les-Pins, F.
 (1249). Radio Cote d'
 Azur.
 2. Orebro, Swe.
 4. Saffie, Swe.
 2. Varberg, Swe.

1250(239.9)

CX36 .25 Montevideo, Uru.
 Centenario Brdcastg.
 Ignacio Nunez 2133.
 9-14; 17-24
EJ8 1. Sn. Sebastian, Sp.
 (1258)

HC2JB .03 Guyaquil, Ec.
MABS .035 Siangyuang, Chn.
OAX4L .1 Lima, Peru. Radio
 Miraflores, Calle
 Manco Capac 347
PYG8 .25 Bauru, Brz.
XLIF .075 Wusih, Chn.
 No. 3 1. Rome, I. (1258)
 10. Kuldiga, Lat. (1258)

1260(238)

CB126 1. Santiago, Chl. (1265)
 Consorcio Espanol,
 Gran Ave. 2564. 9-10;
 16-17; 21-22.
LT11 .5 Parana, Arg.
 Radio Provincia de
 Entre Rios.
XHHP .1 Shanghai, Chn.
IZM .05 Manurewa, N. Z.
 W. Rodgers, Massey
 Rd. Mon. to Fri. 17-
 22; Sat. 13-16; 17-24;
 Sun. 10-18; 19-22
3WR .05 Shepparton, Ausl.
 High St. Mon. to Fri.
 12-1430; 1930-2030;
 Sat. 12-1430; 2030-2330
 Sun. 2130-2230
 2. Nurnberg, Ga. (1267)

1270(236.1)

LKK .5 Khristiansand, Nor.
 (1276)
LKS .5 Stavanger, Nor. (1276)
LS9 6. Buenos Aires, Arg.
 Radio La Voz del
 Aire, Pozos 439.
OA48 .1 Lima, Peru (1277)
PRE8 7. Rio de Janeiro, Brz.
 Soc. Radio Nacional
 Rua Buenos Aires 120.
 Tunis, Tun. (1275)
TUA .5 Wu-hu, Chn.
ZPY .015 Asuncion, Par. (1275)
ZP4 .15 Sydney, Ausl., 46 Car-
 rington St. "Double
 D Eucalyptus" Aus-
 tralia House. Mon. to
 Sat. 830-1030; 1430-
 24; Sun. 1230-24

1280(234.2)

PRG3 10. Rio de Janeiro, Brz.
XHHQ .08 Shanghai, Chn.
XHJA .1 Hankow, China
3AW .6 Melbourne, Ausl.
 218 Exhibition St.
 Mon. to Sat. 8-1130;
 1230-1; Sun. 1145-14;
 18-24.
4ZC .007 Cromwell, N. Z.
 John I. Bilton, Low-
 burn Ferry. Daily
 19-21.
 1. Aberdeen, G. B. (1285)
 25. Dresden, G. (1285)
 1. Tientsin, Chn.

1290(232.4)

CX38 .5 Montevideo, Uru.
PRA5 5. Sao Paulo, Brz. (1295)

Radio Club de Sao
 Paulo, Rua 7 de Abril
 Yungning, China
XGOE 1. Brisbane, Ausl. Mon.
 4BK .5 To Fri. 830-0030; Sat.
 830-0130; Sun. 13-1530
 1830-24.
 5. Dornbirn, Aust. (1294)
 4.2 Klagenfurt, Aust.
 (1294)
 20. Linz, Austria (1294)
 2. Vorarberg, Aus.
 (1294)

1300(230.6)

CB130 1. Santiago, Chile. Ma-
 vis, Av. J.D. Canas 565
CPX 5. La Paz, Bol.
LT10 .1 Santa Fe, Arg.
 Radio del Inst. Soc.
 de la Univ. Nac. del
 Litoral
LU6 .5 Mar del Plata, Arg.
 Radio Atlantica.
OAX4C . Lima, Peru, Estacion
 Radiodifusora DUSA,
 Calle de Plumeros.
PRC4 .05 Ampara, Brz. (1304)
XQHC .5 Shanghai, Chn.
YVSRMO .15 Maracaibo, Vnz.
2TM .05 Tamworth, Ausl.
 Peel St. Mon. to Sat.
 830-1030; 1330-1530;
 17-18; 19-2330; Sun.
 1330-1530; 1630-1830;
 2030-2330.
 5. Danzig, Dan. (1303)

1310(228.9)

LS7 10. Buenos Aires, Arg.
PRE9 .5 Fortaleza, Brz. (1315)
 Ceara Radio Club
SBC 2.5 Malmo, Swe. (1312)
SCK .25 Karlstad, Swe. (1312)
SCO .25 Norrkoping, Swe.
 (1312)
SCQ .25 Trollhattan, Swe.
 (1312)
5AD .3 Adelaide, Ausl. Wey-
 mouth St. Daily 9-100

1320(227.1)

CB132 1. Valparaiso, Chile.
 David Wallace, Es-
 meralda 1111
CD132 .1 Valdivia, Chile. Car-
 los Kahler, Isla Teja
CW39 .1 Paysandu, Uru.
 Miguel Penna. 1030-
 1230; 1730-2245
HAE2 1.25 Magyarovar, Hun.
 (1321)
HJ3ABK .05 Bogota, Col.
XLIA .015 Ningpo, Chn.
3BA .05 Ballarat, Ausl.
 Armstrong and Dana
 Sts. Mon. to Fri. 9-
 1145; 1330-1530; 2030-
 24; Sat. 9-1145; 2030-
 0030; Sun. 1430-1630;
 20-2330

1330(225.4)

CX40 .5 Montevideo, Uru.

FOREIGN B. C. STATIONS BY FREQUENCIES

HJ1ABA .1 Radio Fenix, Chayos 4534; 8-24 Baranquilla, Ctb., E. J. Pellet B. P. O. Box 751

PRE2 .5 R' de Janeiro, Brz. Soc. Radio Cajuti, Rua Conde de Bomfim 457

FRG7 .25 Jahu, Brz. Radio Club Jahuense

XGSA .001 Kiangyin, Chn. (1335)

XLIK .075 Changchow, Chn.

2BH .1 Broken Hill, Ausl., 10 O'Connell St., Mon. to Sat. 9-11; 20-0030 Sun. 1230-15; 20-24

4RO .05 Rockhampton, Ausl. Mon., Tue., Thu. Fri., Sat. 1930-2330; Wed. 1930-2345; Sun. 2030-2330

..... 5. Montpellier, F. (1339)

..... 2. Bremen, G.

..... 2. Hanover, G.

..... 2. Madgeburg, G.

..... 2. Stettin, G.

..... 2. Flensburg, G.

..... 1.7 Lodz, Pol. (1339)

1340(223.7)

CB134 .5 Santiago, Chile. Radio Ativioli, Gumer-sindo 135

CW19 .05 Rocha, Uruguay. Juan J. Arispuru y Abel Machado

LKR .15 Rjukan, Nor. (1348)

LT7 .5 Corrientes, Arg. Radio Provinciale Corrientas

OFE .7 Tampere, Finland. (1348)

XGED .015 Suchow, Chn.

XHHR .05 Shanghai, Chn.

2RN 1. Dublin, I.F.S. (1348)

2XN .05 Lismore, Aus. P.O. Box 138B. Mon. to Fri. 830-930; 1530-1630; 1930-2330; Sat. 830-930; 1930-2330

4ZR .004 Balclutha, N. Z. Renton & Clark, Clyde St. Tue. 1930-20; Thu. 19-20; Sun. 10-12; 1930-2130

No. 2 4. Milan, I. (1348)

..... 2. Ile de F., F. (1348)

..... 5. Salzburg, Aust. (1348)

..... 2. Kongsberg, G. (1348)

..... 1. Bordeaux, F. (1348)

..... 5. Cairo, Eg. (1348)

1350(222.4)

LKN .15 Notodden, Nor. (1357)

LS6 6. Buenos Aires, Arg. Radio del Pueblo, Estados Unidos 1816

OAGE .03 Arequipa, Peru

XQKA .15 Tientsin, China.

3GL .05 Geelong, Ausl. National Mutual Bldg., Mon. 830-1045; 1430-1530; 19-24; Tue., Wed., Thu. 9-1045; 1430-1530; 19-24; Fri.

845-1045; 1430-1530; 19-24; Sat. 9-1045; 1930-0030; Sun. 2030-2335.

No. 2 .2 Turin, I. (1357)

1360(220.4)

CC136 .1 Rancagua, Chile. Guillermo Espinosa, Milan 767

CD136 .1 Magallanes, Chile. Santiago Aguilera, Valdivia 250

CW41 .05 San Jose, Uru. Radio San Jose 10-14; 18-23.

OA4K .15 Lima, Peru

PRC5 .1 Belem, Brz. (1364) Radio Club do Para Araraquara, Brs. (1364) Radio Cultura Araraquara, Ave. Feijo 25

PRF9 .5 Rio Grande do Sul, Brz. Empresa Radio-difusora Porto Ale-grense

XQHD .2 Shanghai, Chn.

2MO .05 Gunnedah, Ausl. P. O. Box 78. Mon. to Sat. 830-1030; 1330-1530; 1930-2030; Sun. 930-1130; 1530-1730; 1930-2330

4PM .1 Port Moresby, Ausl.

No. 2 .1 Turin, I. (1366)

1370(218.8)

CX42 1. Montevideo, Uru. Colonial Bldgctg, Ave. Italia 3646. 11-24 Hangchow, Chn.

XHHA .05 Hangchow, China

XLID .05 Hangchow, China

3HS .05 Morsham, Ausl. 84 Wilson St. Mon., Thu. 1330-15; 20-24; Tue., Wed., Fri. 1330-15; 1930-24; Sat. 1330-15; 20-0030; Sun. 1330-15; 2030-2330

..... .5 Basle, Swi. (1375)

..... .5 Berne, Swi. (1375)

1380(217.3)

CB138 5. Santiago, Chile. El Mercurio, Cia. Esq. Morande

XLHE .05 Shanghai, Chn.

XLHF .05 Shanghai, Chn.

4BH .6 Brisbane, Ausl. Par-bury House, Eagle St. Mon. to Fri. 830-1030; 1230-1430; 19-0030; Sat. 830-1030; 19-0030; Sun. 1330-1630; 20-24

No. 2 2. Warsaw, Pol. (1384)

1390(215.7)

CB139 .105 Valparaiso, Chile. Zenith, Atahualpa 816.

LR11 1. La Plata, Arg. Radio Univ. Nac. de La Plata Wusih, Chn.

XLIN .05 Goulburn, Ausl.

2GN .1 Auburn St. Mon. to

Fri. 1345-1515; 1930-24; Sat. 1330-1430; 1930-24; Sun. 2030-2330

7BU .. Burnie, Ausl.

..... 5. Radio-Lyons, F. (1393)

1400(214.2)

CB140 .1 San Antonio, Chile. Vina Santa Rita, Pob. Coop. Victoria, Casa 212

CW37 .025 Colonia, Uruguay. N. Gonzales Moreno

FFZ .25 Shanghai, Chn.

OA6D .15 Arequipa, Peru

PRD5 1. R' de Janeiro, Brz. Dpto. de Educacion da Pref. Largo da Carioca 5

XLHO .1 Shanghai, Chn.

2ZO .1 Palmerston, N. Z. J. V. Kyle, 50 Walde-grave St. Tue. 1830-22; Thu. 1830-21; Sun. 10-1230

..... .5 Ornskoldsvik, Swe. (1402)

..... 1. Umea, Swe. (1402)

1410(212.6)

CC141 .1 Concepcion, Chi. Radio Phillips, Cau-pulcan 370.

CX44 .2 Montevideo, Uru. SADREP, Solis Grande 912. 8-2

PRB5 .05 Franca, Brz. (1415) Radio Club Hertz Uberaba, Brz.

PRE5 .25 Radio Soc. Triangulo Minero

XHIA .06 Chuchow, China

2KO .5 Newcastle, Ausl. 57 Hunter St. Mon. to Fri. 830-1730; 1830-24; Sat. 1130-0030; Sun. 1030-1130; 1930-2330

..... .05 Uddevalla, Swe.

Portuguese Common Wave (1411)

1420(211.1)

..... .8 Paris, F. (1424)

1ZS .05 Radio LL Auckland, N. Z.

3XY .6 Melbourne, Ausl. Princess Theatre. Mon. to Sat. 8-1530; 1615-01; Sun. 1130-14; 16-24

..... 1.5 Beziers, F. (1429)

..... 5 Alexandria, Eg. (1429)

..... 6 Turku, Fin. (1429)

..... 10. Vaasa, Finland. O. Y. Suomen Yleisradio A. B.

1430(209.7)

CC143 .1 Talca, Chile. Radio Atlantica, Enrique Garcia, Molino San-doval

FOREIGN B. C. STATIONS BY FREQUENCIES

CW25 .5 Durazno, Uruguay, Artola, Evangelisti y Cia.
HAE3 1.25 Miskolc. Hung. (1438)
PRD7 .25 Sorocaba, Brz.
RW10 100. Minsk, U.S.R. (1438)
2WL .05 Wollongong, Aust.
 Russell Yeldon, Wollongong Brcdstg. Co. "Ferranti Products." Mon. to Fri. 12-1330; 20-2330; Sat. 20-2330; Sun. 2030-2230
4GY .05 Gympie, Aust.

1440(208.2)

CB144 .1 Santiago, Chile. Seguros Generales, Moeneda 1367
CB144A .1 Santiago, Chile. Nacimiento, J. Infanta 2290
CB144B .5 Santiago, Chile. Los Cuatro Ases, Roman Diaz 2000
CB144C .15 Santiago, Chile. Luis Desmaras Los Leones, Caleta 2860
LS11 .7 La Plata, Arg. Radio Proa. de Bs. Aires.
OA6U .05 Arequipa, Peru (1443)
PRG4 .25 Jabotical, Brz. Radio Club Jabotical (1442)
XLHQ .03 Shanghai, Chn.
2QN Deniliquin, Austl.
4IP .05 Ipswich, Austl.
 Spanish Common Wave (1447).

1450(206.8)

CX46 1.5 Montevideo, Uru. Radio America, Camino Corrales 2808. 10-24
XLIB .015 Suchow, Chn.
XOMO .015 Peiping, Chn.
SMU .1 Murray Bridge, Austl. Regional unit of 5AD. Daily 9-24
 5. Paris, F. (1456) Eiffel Tower.

1460(205.4)

CB146 .1 San Felipe, Chile. Ilustre Municipalidad, Baquedano 715
CW33 .075 Florida, Uruguay. Omar F. Barreiro.
HAE4 1.25 Pecs, Hun. (1465)
ON4EB .1 Antwerp, Belg. (1465)
XQHE .25 Shanghai, Chn.
ZP5 .15 Asuncion, Par. (1465)
7UV .3 Ulverstone, Austl. Mon. to Fri. 9-1030; 19-24; Sat. 9-1030; 1330-0030; Sun. 1330-1530; 19-2330.
 1.5 Dresden, G. (1465)
1 Courtrai, Belg. (1465)
 Bega, Austl.

1470(204)

CW43 .1 Lavellaja, Uruguay. B. C. Blanes y I. R. Volante.
XGDZ .001 Changchow, Chn.
2BE .1 Bega, Austl.
3ZM .06 Christchurch, N. Z. Green & Younger, 253 Brougham St. Mon. to Thu. 730-10; 17-18; 19-22; Fri. 730-10; Sat. 730-10; 20-24; Sun. 11-14; 17-18; 19-22
4CA .1 Cairns, Austl.
 3 Plymouth, G. B. (1474)
 1. Bournemouth, G. B. (1474)

1480(202.6)

CW47 .1 Canelones, Uru. Rafael J. Espiga, 11-14; 16-23
PRH4 1. Petropolis, Brz.
XQHf .2 Shanghai, Chn.
2AY .1 Albury, Austl. John Dower, 47 York St., (Sydney). Mon. to Fri. 1345-1515; 19-24; Sat. 14-1515; 19-0030
4BU .1 Bundaberg, Austl.

1490(201.2)

ON4CE .1 Chatelneau, Big. (1492)
XLKS .02 Kashing, Chn.
No. 1 .1 Wallonia, Belg. (1492)
2TM .05 Tamworth, Austl.
1 Binche, Big. (1492)
2 Nimes, F. (1492)
1 Courtrai, Belg.
 Spanish Common Wave (1492)
 See EAJ in Index by Calls

1500(199.9)

CB150 1. Santiago, Chile. Markoff Hnos.
CX48 1.5 Montevideo, Uruguay Vazquez y Cia., 18 de Julio 1333
HJ5ABE Cali, Colombia Jose Calderon N. Cia. Radiodifusora Colombiana, S. A. Aptd. 50
PRG6 .25 Cruzeiro, Brz. Soc. Radio Mantiqueira
VUP 2. Peshawar, India
XHHT .1 Shanghai, Chn.
XOCL .0075 Tsinan, Chn.
XQHG .25 Shanghai, China.
3AK .2 Melbourne, Austl. 116 Queen St. Mon. 630-830; Tue. to Fri. 0100-0330; 630-830; Sat. 0100-0330; 630-830; 1430-1530; Sun. 0100-430; 14-16; 2330-0130
 Hobart, Austl.
25 Pietasaari, Fin.
2 Radio Alcalá, Sp.
 Belgium has several 100 watt stations on 1500.

1510(198.6)

YDA .5 Tandjongpriok, Java

1530(196.0)

SCJ .2 Kariskrona, Swe.

FOREIGN B. C. STATIONS BY LOCATIONS

SOUTH AMERICA		LR7	750	15000	LV3	620	2000	Resistencia		
		LR8	1150	7000	Corrientes			LT5	1160	500
		LR9	1030	5000	LT7	1340	500	Rosario		
		LR10	790	10250	La Plata			LT1	780	4000
		LS1	710	5000	LS11	1440	700	LT3	1080	4500
		LS2	1190	30000	La Rioja			LT8	840	500
		LS3	630	5000	LV14	1240	500	San Juan		
		LS4	670	7000	Mar del Plata			LV1	730	1500
		LS5	1110	5000	LU6	1300	500	LV5	1120	500
		LS6	1350	6000	Mendoza			Santa Fe		
		LS7	1310	10000	LV6	690	500	LT9	1200	500
		LS8	1230	15000	LV10	1210	500	LT10	1300	500
		LS9	1270	6000	Parana			Tucuman		
		LS10	590	6000	LT11	1260	500	LV7	820	1000
		Cordoba								
		LV2	880	7000						

FOREIGN B. C. STATIONS BY LOCATIONS

BOLIVIA		PRF3 900 5000	Bogota	CX34 1210 500
La Paz		PRG9 1220 500	HJN 681 500	CX36 1250 250
CPX 1300 5000		PRH3 1120 10000	HJ3ABD 1100 50	CX38 1290 500
CP4 1040 10000		PYG2 1070 10000	HJ3ABE 1200 1000	CX40 1330 500
BRAZIL		Sorocaba		CX42 1370 1000
		PRD7 1430 250	HJ3ABH 1005 2000	CX44 1410 200
		PRD9 769 250	HJ3ABK 1320 50	CX46 1450 1500
		Uberaba		CX48 1500 1500
Amparo		PRE5 1410 250	HJ1ABM 1154 50	
PRC4 1300 50		PRE6 740 1500	Medellin	
BRAZIL			HJ4ABK 1230 300	
Araraquara		CHILE		
PRD4 1364 250		Concepcion		
Bahia		CC64 640 100	ECUADOR	
PRA4 840 50		CC117 1170 100	Guyaquil	
PRF6 1050 50		CC141 1410 100	HC2ET 1153 300	
PRF8 950 500			HC2JB 1250 30	
Bauru		PARAGUAY		
PYG8 1250 250		Asuncion		
Belem		CC96 960 100	ZP1 1135 1000	
PRC5 1360 100		Magallanes		
Bello Horizonte		CD103 1030 100	ZP3 1000 300	
PRC7 1090 250		CD111 1110 100	ZP4 1275 150	
Campinas		CD136 1360 100	ZP5 1465 150	
PRC9 1175 250		Osorno		
Cruzeiro		CD112 1120 100	ZP7 1083 700	
PRG6 1500 250		CD121 1210 100	ZP9 898 1500	
Curityba		Rancagua		
PRB2 882 250		CC109 1090 100	Villarrica	
Fortaleza		CC136 1360 100	ZP15 700	
PRE9 1315 500		San Antonio		
Jabotical		CB140 1400 100	PERU	
PRG4 1442 250		Arequipa		
Jahu		CB146 1460 100	OA6D 1400 150	
PRG7 1330 250		Santiago		
Juiz de Fora		CB57 570 5000	OA6E 1350 30	
PRB3 857 250		CB62 620 1000	OA6U 1443 50	
Mogy das Cruces		CB73 730 1000	Lima	
PRB8 1000 50		CB78 780 1000	OA X4A 750 1500	
Niteroy		CB82 820 1000	OA X4B 1300 250	
PR18 1132 1000		CB89 890 1000	OA X4C 1300	
Pelotas		CB93 930 3000	OA X4E 980 50	
PRC3 920 250		CB97 970 1000	OA X4F 1080 50	
Pernambuco		CB101 1010 1000	OA X4H 1150	
PRA5 750 3000		CB106 1060 1000	OA X4I 1190	
Petropolis		CB114 1140 1000	OA X4J 1120	
PR14 1480 1000		CB118 1180 1000	OA X4L 1250 100	
Porto Alegre		CB126 1260 1000	OA4AR 1210 25	
PRC2 1090 3000		CB130 130 1000	OA4K 1360 150	
PR12 600 25000		CB134 1340 500	OA4O 1277 100	
Rio Claro		CB138 1380 5000	OA4D 1210 25	
PRF2 725 250		CB144 1440 100	URUGUAY	
Rio de Janeiro		CB144A 1440 100	Canelones	
PRA2 750 1500		CB144B 1440 500	CW47 1480 100	
PRA3 860 2500		CB144C 1440 150	Colonia	
PRA9 1000 1000		CB150 1500 1000	CW37 1400 25	
PRB7 800 500		Talca		
PRC6 980 1000		CC143 1430 100	Durazno	
PRC8 1030 1000		Talcahuano		
PRD2 932 1000		CB84 840 100	Florida	
PRD5 1400 1000		CC58 580 500	CW33 1460 75	
PRE2 1330 500		Valdivia		
PRE3 1220 10000		CD132 1320 100	Lavelleja	
PRE4 940 250		Valparaiso		
PRE8 1270 7000		CB76 760 10000	CW43 1470 100	
PRF4 923 10000		CB90 900 1000	Mercedes	
PRG3 1280 10000		CB116 1160 100	CW29 1120 50	
PRH8 820 5000		CB120 1200 1000	Montevideo	
Rio Grande do Sul		CB124 1240 250	CX4 610 1000	
PRF9 1360 500		CB132 1320 1000	CX6 650 10000	
Santos		CB139 1390 105	CX8 690 500	
PRB4 960 1000		Vina del Mar		
PRG5 720 750		CB64 640 1000	CX10 730 1000	
Sao Paulo		CB111 1110 1000	CX12 770 1000	
PRA5 1295 500		COLOMBIA		
PRA6 815 10000		Barranquilla		
PRA7 796 50		HIJ1ABA 1330 100	CX2 1050 2000	
PRB6 1170 1000			CX28 1090 3000	
PRB9 1017 5000			CX30 1130 500	
PRE7 788 5000			CX32 1170 500	

FOREIGN B. C. STATIONS BY LOCATIONS

No. 2	1500	100					
BULGARIA							
Sofia	850	1000					
CZECHOSLOVAKIA							
Bratislava							
OKR	1004	13500					
Brno							
OKB	922	32000					
Kosice	1158	2600					
Moravska							
OKK	1113	11200					
Praha							
OKP	633	120000					
No. 2	1204	5000					
DANZIG							
Danzig	1303	500					
DENMARK							
Copenhagen	1176	10000					
ESTONIA							
Tallinn	731	20000					
Tartu	517	500					
FINLAND							
Heisinki							
OFA	895	10000					
Pietersaari	1500	250					
Pori							
OFD	749	1000					
Sortavala	749	200					
Tampere							
OFE	1420	700					
Turku	1429	500					
Viipuri							
OFH	527	10000					
FRANCE							
Bordeaux	1077	30000					
	968	3000					
Grenoble	583	15000					
Lille	1213	60000					
Limoges	895	500					
Lyons	648	90000					
YL	1393	25000					
Marseilles	749	1600					
Montpellier	1339	5000					
Nice	1249	2000					
Nimes	1492	200					
Paris							
AGEN	868	600					
FPTT	695	120000					
ILLE	1348	800					
PP	959	60000					
Eiffel	1456	20000					
Radio-Normandie							
	1113	10000					
Rennes	1040	40000					
Strasbourg	859	35000					
SPTT							
Toulouse	776	2000					
	913	60000					
GERMANY							
Berlin	841	100000					
Bremen	1330	2000					
Breslau	950	100000					
Cassel	1195	2000					
Coblenz	1195	2000					
Cologne	658	100000					
Dresden	1285	250					
Flensburg	1330	2000					
Frankfurt	1195	25000					
Freiburg	1195	5000					
Gleiwitz	1231	5000					
Hamburg	904	100000					
Hanover	1330	2000					
Kaiserslautern	1195	1500					
Konigsberg	1031	10000					
	1348	2000					
Leipzig	785	120000					
Magdeburg	1330	2000					
Munich	740	100000					
Nurnberg	1267	2000					
Stettin	1330	2000					
Stuttgart	574	100000					
Trier	1195	2000					
GREAT BRITAIN							
Aberdeen	1285	1000					
Belfast	977	1000					
Bournemouth	1474	1000					
Cardiff	WR	804	50000				
WR	WN	1149	20000				
Daventry	MR	1013	50000				
Falkirk	SN	1050	50000				
Falkirk	SR	767	50000				
London	LN	1149	20000				
London	LR	877	50000				
Manchester	NN	1149	20000				
NN	NR	668	50000				
Newcastle							
		1122	1000				
Plymouth							
		1474	300				
HOLLAND							
Hilversum	PFB	995	60000				
HUNGARY							
Budapest	HAL	546	120000				
Magyarovar	HAE-2	1321	1250				
Miskolc	HAE-3	1438	1250				
Nyiregyhaza	HAE	1122	6200				
Pecs	HAE-4	1465	1250				
IRISH FREE STATE							
Athlone		565	60000				
Cork	6CK	1240	1000				
Dublin	2RN	1348	1000				
ITALY							
Bari	HBA	1059	20000				
Bolzano	HIBZ	536	1000				
Firenze	HIFI	610	20000				
Genoa	HIGE	986	10000				
Milan	HIMI	814	50000				
No. 2		1348	4000				
Naples	HINA	1104	1500				
Palermo	HIPA	565	4000				
Rome	HRO	713	50000				
No. 3		1258	1000				
Trieste	HTR	1222	10000				
Turin	HITO	1140	7000				
No. 2		1357	200				
LATVIA							
Kuldiga		1258	10000				
Madona		1104	50000				
Riga	YLZ	583	15000				
NORWAY							
Aalesund	LKA	850	350				
Bergen	LKB	850	1000				
Bodo	LKD	686	500				
Fredrikstad	LKF	776	1000				
Hamar	LKH	519	700				
Kristianssand	LKK	1276	500				
Narvik		1222	300				
Notodden	LKN	1357	150				
Porsgrund	LKP	850	1000				
Rjukan	LKR	1348	150				
Stavanger	LKS	1276	500				
Tromsøe	LKM	1186	100				
Trondelag	LKT	629	20000				
POLAND							
Cracow		1022	2000				
Katowice		758	12000				
Lodz		1339	1700				
Lwow		795	16000				
Poznan		868	16000				
Torun		986	24000				
Warsaw	No. 2	1384	2000				
Wilno		536	16000				
PORTUGAL							
Lisbon	CTIAA	629	20000				
Pareda	CTIGL	1031	5000				
ROUMANIA							
Bucharest		823	12000				
SPAIN							
Alcala		1500	200				
Barcelona	EAJ1	795	7500				
	EAJ15	1022	3000				
Madrid	EAJ2	731	3000				
	EAJ7	1095	10000				
Oviedo	EAJ19	1022	700				
San Sebastian	EAJ8	1258	1000				
Seville	EAJ5	731	5500				
Valencia	EAJ3	850	3000				
<p style="text-align: right;">Spain has many stations of 100 watts or less on 1492 and 1500 kcs. For complete list see Index by Calls.</p>							
SWEDEN							
Falun	SCC	1086	2000				

FOREIGN B. C. STATIONS BY LOCATIONS

Goteborg		
SBB	941	10000
SBH	1131	10000
SCJ	1530	200
Karlskrona		
Karlstad	1312	250
SCK	1312	250
Malmo		
SBG	1312	2500
Norrkoping		
SCO	1312	250
Orebro		
1240		
Ornskoldsvik		
1402		
Saffle		
1240		
Stockholm		
SBA	704	55000
Sundsvall		
SBD	601	10000
Trollhattan		
SCQ	1312	250
Uddevalle		
1410		
Umea		
1402		
Varberg		
1240		

SWITZERLAND

Basle	1375	500
Berne	1375	500
Beremunster	556	100000
Monte Ceneri	1167	15000
Sottens	677	100000

U. S. S. R.

Alexandrovsk		
RW38	662	2000
Archangel		
RW36	586	10000
Astrakhan		
RW35	598	10000
Dnepropetrovsk		
RW30	913	10000
Elista		
RW48	704	2500
Engels		
RW55	932	1000
Frounze		
RW82	608	2500
Gomel		
RW40	959	1000
RW54	959	1000
Gorki		
RW42	565	10000
Groznyl		
RW23	676	1000
Igarka		
RW85	871	2000
Ijevsk		
RW78	767	3000
Iochar-Ola		
RW61	888	1000
Ivanovo		
RW31	625	10000
Karaganda		
RW46	686.5	1200

Kazan	686	10000
Kharkov		
RW20	1185	10000
Kiev		
RW9	722	36000
Krasnodar		
RW33	1050	1000
Leningrad		
RW70	1040	10000
Magnitogorsk		
Makhatch		
RW27	689	4000
Minsk		
RW10	1438	100000
Moscow		
RW39	832	100000
Mourmansk		
RW79	610	10000
Naltchik		
RW51	794	1000
Odessa		
RW13	968	10000
RW69	968	10000
Ordjonikidze		
RW64	740	10000
Oufa		
RW22	617	10000
Oukhta		
RW67	968	2000
Oust-Abakansk		
RW50	617	2500
RW84	635	1200
Penza		
RW56	640	1200
Petrovavlovsk		
RW71	689	1200
Petrozavodsk		
RW29	648	10000
Prattigorsk		
RW18	610	1000
Samara		
RW16	710	10000
Saransk		
RW65	734	1000
Simferopol		
RW73	859	10000
Stalingrad		
RW34	522	10000
Stalino		
RW26	776	10000
Sykttykar		
RW41	563	1200
Tcheboksary		
RW74	680	1200
Tcheliabinsk		
RW68	577	1500
Tchernigov		
RW86	1013	5000
Tchita		
RW52	556	20000
Tiraspol		
RW57	1068	4000
Vinnitza		
RW75	1095	10000
Urdjonikidze		
RW64	752	10000
Vladivostok		
RW28	635	800
RW32	635	10000

YUGOSLAVIA

Belgrade	686	2500
Ljubijana	527	5000
Zagreb		
1086		700

ASIA

CEYLON

Colombo	705	1750
VPB		

CHINA

Canton		
XGOK	750	1000
XKRI	1071	100
Chang-Chow		
XGDZ	1470	10
XLIK	1330	75
Chang-sha		
XGTM	840	15
Chengtu		
XGOH	560	10000
Chinkiang		
XGOZ	1150	100
Chuching		
XGCK	990	7.5
Chunking		
XGOS	711	1000
Foo-chow		
XGOL	1030	250
Hangchow		
XGOD	990	2000
XLID	1370	50
XLIO	850	50
XLIR	1230	50
Hangkow		
XGOW	1010	5000
XHJA	1280	100
Hanim		
XLIM	910	50
Honan-fu		
XGOX	1070	200
Hongkong		
ZBW	845	2000
Kiangyin		
XGSA	1335	10
Kashing		
XGAK	895	15
XGML	714.3	7.5
XLKS	1490	20
Kunming		
XGOY	690	250
Loyang		
XGOB	1090	250
Nan-chang		
XGOC	1130	500
Nanking		
XGOA	660	75000
XGON	900	200
Ningpo		
XLIA	1320	15
Peiping		
XGOF	950	300
XGOT	1220	500
XLKA	1194	30
Pinghu		
XLPH	1210	15
Poatung		
XGMM	1005	15
Shanghai		
FFZ	1400	250
XHHA	840	1000
XHBB	740	50
XHDD	860	50
XHHE	940	100
XHIF	960	100
XHHG	1020	100
XHHH	1040	100
XHII	1080	100
XHIL	1060	200
XHHK	620	100
XHHL	1140	100

XHHN	1200	100
XHHP	1260	100
XHHQ	1280	80
XHHR	1340	50
XHHS	1100	100
XHHT	1500	100
XHHU	1160	100
XHHV	880	100
XHHX	920	1000
XHHY	1240	100
XHHZ	1180	150
XLHA	780	50
XLHB	560	45
XLHC	720	50
XLHD	720	50
XLHE	1380	50
XLHF	1380	50
XLHI	760	7.5
XLHJ	760	100
XLHK	800	7.5
XLHL	800	100
XLHM	1120	50
XLHN	1120	200
XLHO	1400	100
XLHQ	1440	30
XMHA	600	1000
XMHB	980	500
XMHC	700	500
XOHA	580	250
XOHB	850	100
XOHC	1300	1000
XOHD	1360	200
XOHE	1460	250
XOHF	1480	200
XQHG	1500	250
640		
Shaohing		
XLIO	1090	.....
Shuhing		
1090		.....
Siangyang		
MABS	1250	35
Suchow		
XLIB	1450	15
XLIL	870	50
1110		10
Taiyuan		
XGOT	1000	50
Tengchow		
XHKB	590	100
XTGM	900	100
Tientsin		
XLKB	825	55
XHKA	1050	100
XQKA	1350	150
XQKB	750	150
XQKC	1280	100
Tsangchow		
XK Y Y	1150	15
Tsinan		
XGF	833	7.5
XGOF	860	500
XOCL	1500	7.5
Tsingtao		
XHKC	1210	100
Tsunshi		
XGSS	610	15
T'ung Hsien		
LUHO	750	20
Wuchow		
XHGS	730	50
Wu-hu		
XD Y F	1270	15
XGWH	830	30
Wusih		
XHIB	970	75
XLIE	1170	50
XLIF	1250	75
XLIJ	790	50

FOREIGN B. C. STATIONS BY LOCATIONS

XLIN 1390 50	Okayama	..... 1348 500	Clevedon
XLTC 1210 15	JOKK 700 500		4QN 600 7000
XLWU 1250 50	Osaka	KENYA	Corowa
Yongning	JOBK-1 750 10000	Nairobi	2CO 670 1000
XGOE 1290 1000	JOBK-2 1085 10000	VQ7LO 858 600	Crystal Brook
FORMOSA	Sapporo		5CK 640 7500
Taichu	JOIK 830 10000	MOROCCO	5PI 1040 2000
JFCK 580 1000	Sendai	Casablanca	Cumnock
Taihoku	JOHK 770 10000	CNO 983 25	2CR 550 10000
JFAK 670 10000	Shizuoka	Rabat	Denlquin
Tainan	JOPK 780 500	CNR 601 25000	2QN 1440
JFBK 720 1000	Tokushima		Geelong
INDIA	JOKX 980 500	SOUTH RHODESIA	3GL 1350 50
Bombay	Tokyo	Salisbury	Goulburn
VUB 855 3000	JOAK-1 870 10000	..... 681.8 1500	2GN 1390 100
Calcutta	JOAK-2 590 10000		Grafton
VUC 810 3000	Tottori	TUNISIA	2GF 1210 50
Delhi	JOLG 890 500	Tunis	Gunnedah
VUG 933 1000	Yamagata	TUA 1275 500	2MO 1360 50
Lahore	JOJG 1040 500		Gympie
VUL 1200 100	JAVA	UNION S. AFRICA	4GY 1430 50
Madras	Tandjongpriok	Bloemfontaine	Hamilton
VUM 770 200	YDA8 1510 500	ZTB 790 500	3HA 1010 300
INDO-CHINA	KOREA	Cape Town	Hobart
Salgon	Fuzan	ZTC 600 10000	7HO 820 100
F31GD 840 12000	JBAK 1020 500	Durban	7ZL 590 1000
JAPAN	Seoul	ZTD 750 1500	Horsham
Akita	JODK-1 900 10000	Grahamstown	3HS 1370 50
JOUK 645 300	JODK-2 610 10000	ZUG 560 10000	3WV 580 10000
Asahigawa	MANCHUOKUO	Johannesburg	Invernell
JOCG 655 300	Dairan	ZTJ 645 10000	2LV 980
Fukui	JQAK 652 500	Maritzburg	Ipswich
JOFG 990 300	Harbin	..... 750 10000	4IP 1440 50
Fukuoka	MTFY 675 3000	Pretoria	Kalgoorlie
JOLK 680 500	Hsinking	ZTP 952 500	6GF 720 2000
Hakodate	MTCY 560 100000	OCEANIA	6KG 1210 85
JOVK 680 500	Mukden	AUSTRALIA	Katoomba
Hamamatsu	MTBY 890 1000	Adelaide	2KB 1160 100
JODG 635 500	PALESTINE	5AD 1310 300	Keiso
Hiroshima	Jerusalem	5CL 730 2000	7NT 710 7000
JOJK 850 10000	..... 668 20000	5DN 960 300	Launceston
Kanazawa	PHILIPPINES	5KA 1200 300	7LA 1100 300
JOJK 710 3000	Manila	Albury	Lawrence
JORK 720 500	KZEG 780 1000	2AY 1480 100	2NR 700 7000
Kofu	KZIB 900 1000	Armidale	Lismore
JOKG 800 500	KZRM 618.5 50000	2AD 1080	2XN 1340 50
Kokura	SIAM	Ayr	Longford
JOSK 735 1000	Bangkok	4AY 980 100	3GI 830 7000
Kumamoto	HSP-1 856 2500	Ballarat	Mackay
JOJK 790 10000	HSP-2 750 15000	3BA 1320 50	4MK 1160 100
Kyoto	..... 1200	Bega	Maryborough
JOOK 960 300	AFRICA	2BE 1470 100	4MB 1060 50
Maebashi	ALGERIA	Bendigo	Melbourne
JOBG 970 500	Algiers	3BO 970 200	3AK 1500 200
Matsuye	..... 941 12000	Brisbane	3AR 580 4500
JOTK 625 500	EGYPT	4BC 1120 1000	3AW 1280 600
Miyazaki	Alexandria	4BH 1380 600	3DB 1030 600
JONG 600 500	..... 1122 500	4BK 1290 500	3KZ 1180 600
Nagano	Cairo	4QG 800 2500	3LO 770 3500
JONK 940 500	..... 620 20000	Broken Hill	3UZ 930 650
Nagasaki		2BH 1330 100	3XY 1420 600
JOAG 930 500		Bundaberg	3YB 1060 25
Nagoya		4BU 1480 100	Mildura
JOCK-1 810 10000		Burnie	3MA 900 50
JOCK-2 1175 10000		7BU 1390 100	Minding
Niigata		Calrns	6WA 560 10000
JOOK 920 500		4CA 1470 100	Murray Bridge
Obihiro		Canberra	5MU 1450 100
JOOG 1080 500		2CA 1050 500	Narrabri
			2NZ 1170 2000
			Newcastle
			2HD 1140 500
			2KO 1410 500
			2NC 1230 2000
			Northam
			6AM 980 1000
			Oakey
			4AK 1220 1000

FOREIGN B. C. STATIONS BY LOCATIONS

Orange			2FC	610	3000	NEW ZEALAND				2ZM	1150	15
2GZ	990	2000	2GB	870	1000	Auckland				Grey mouth		
Perth			2KY	1020	1000	IYA	650	10000		3ZR	940	400
6IX	1240	500	2SM	1270	1000	IYX	880	150		Hastings		
6ML	1130	500	2UE	950	1000	IZB	1090	100		2ZL	1240	50
6PR	880	500	2UW	1110	1000	IZS	1420	50		Invercargill		
6WF	690	3500	Tamworth							4ZP	620	500
Port Moresby			2TM	1300	50	Baichlutha				Manurewa		
4PM	1360	100	Toowoomba			4ZR	1340	4		IZM	1260	50
Renmark			2GR	1000	500	Christchurch				Masterton		
5RM	850	1000	Townsville			3YA	720	10000		2ZD	1170	5
Rockhampton			4TO	1170	200	3YL	1200	500		Napier		
4RK	910	2000	Ulverstone			3ZM	1470	60		2ZII	820	65
4RO	1330	50	UVV	1460	300	Cromwell				Nelson		
Sale			Wagga			4ZC	1280	7		2ZR	920	15
3TR	1240	500	2WG	1150	200	Dunedin				New Plymouth		
Shepparton			Warwick			4YA	790	500		2YB	760	100
3WR	1260	50	4WK	900	50	4YO	1140	150		2ZF	960	250
Swan Hill			Wollongong			4ZB	1010	25		2ZO	1400	100
35H	1080	50	2WL	1430	50	4ZL	1220	100		Wairoa		
Sydney			NEW CALEDONIA			4ZM	1010	30		2ZP	900	105
2BL	740	3000	Noumea			4ZO	1010	25		Wellington		
2CH	1190	1000	FJP	600	500	Gisbourne				2YA	570	5000
						2ZJ	980	60		2YC	840	200

FOREIGN B. C. STATIONS BY CALLS

CB57	570	CT1AA	629	EAJ14	1500	HJ3ABE	1200	JOTK	625	LT11	1260	PRA8	750
CB62	620	CT1GL	1031	EAJ15	1022	HJ3ABH	1005	JOUK	645	LUHO	750	PRA9	1000
CB64	640	CW19	1340	EAJ16	1492	HJ4ABJ	1000	JOVK	680	LU2	900	PRB2	882
CB73	730	CW23	820	EAJ17	1492	HJ4ABK	1230	JOXK	980	LU6	1300	PRB3	857
CB76	760	CW25	1430	EAJ19	1022	HSP1	856	JQAK	652	LU7	1240	PRB4	960
CB78	780	CW27	680	EAJ20	1492	HS7PJ	750	KZEG	780	LV1	730	PRB5	1415
CB82	820	CW29	1120	EAJ21	1492	11BA	1059	KZIB	900	LV2	880	PRB6	1170
CB84	840	CW31	1160	EAJ23	1492	11BZ	536	KZRM	618.5	LV3	620	PRB7	800
CB89	890	CW33	1460	EAJ24	1492	11FI	610	LKA	850	LV5	1120	PRB8	1000
CB90	900	CW35	1240	EAJ25	1502	11GE	986	LKB	850	LV6	690	PRB9	1017
CB93	930	CW37	1400	EAJ26	1502	11MI	814	LKD	686	LV7	820	PRC2	1020
CB97	970	CW39	1320	EAJ27	1492	11NA	1104	LKF	776	LV10	1210	PRC3	990
CB101	1010	CW41	1360	EAJ29	1500	11PA	565	LKH	519	LV14	1240	PRC4	1304
CB106	1060	CW43	1470	EAJ30	1500	11RO	713	LKI	845	MABS	1250	PRC5	1364
CB111	1110	CW47	1480	EAJ31	1492	11TO	1140	LKK	1276	MTBY	890	PRC6	980
CB114	1140	CX4	610	EAJ32	1500	11TR	1222	LKM	1186	MTCY	560	PRC7	1090
CB116	1160	CX6	650	EAJ33	1492	JBAK	1020	LKN	1357	MTFY	675	PRC8	1030
CB118	1180	CX8	690	EAJ34	1492	JFAK	670	LKO	1181	OAXAA	750	PRC9	1175
CB120	1200	CX10	730	EAJ35	1500	JFBK	720	LKP	850	OAXAB	1200	PRD2	932
CB124	1240	CX12	770	EAJ36	1500	JFCK	580	LKR	1348	OAXAC	1300	PRD3	1207
CB126	1260	CX14	810	EAJ37	1500	JOAG	930	LKS	1276	OAXAE	890	PRD4	1364
CB130	1300	CX16	850	EAJ38	1500	JOAK-1	870	LKT	629	OAXAF	1080	PRD5	1400
CB132	1320	CX18	890	EAJ39	1492	JOAK-2	590	LR1	1070	OAXAH	1150	PRD7	1430
CB134	1340	CX20	930	EAJ40	1500	JOBG	970	LR2	910	OAXAI	1120	PRD8	1132
CB138	1380	CX22	970	EAJ41	1492	JOBK-1	750	LR3	950	OAXAL	1250	PRD9	769
CB139	1390	CX24	1010	EAJ42	1492	JOBK-2	1085	LR4	990	OAAAR	1210	PRE2	1330
CB140	1400	CX26	1050	EAJ43	1492	JOCG	655	LR5	830	OAAK	1360	PRE3	1220
CB144	1440	CX28	1090	EAJ44	1492	JOCK-1	810	LR6	870	OAAO	1277	PRE4	941
CB144A	1440	CX30	1130	EAJ45	1500	JOCK-2	1175	LR7	750	OAGD	1400	PRES	1410
CB144B	1440	CX32	1170	EAJ46	1492	JODG	635	LR8	1150	OAGE	1350	PRE6	740
CB144C	1440	CX34	1210	EAJ47	1492	JODK-1	900	LR9	1030	OAGU	1443	PRE7	788
CB146	1460	CX36	1250	EAJ48	1492	JODK-2	610	LR10	970	OFA	895	PRE8	1270
CB150	1500	CX38	1290	EAJ49	1500	JOFG	990	LR11	1390	OFE	749	PRE9	1315
CC58	580	CX40	1330	EAJ51	1492	JOFK	850	LS1	710	OFD	1340	PRF2	725
CC64	640	CX42	1370	EAJ52	1492	JOGK	790	LS2	1190	OFH	527	PRF3	900
CC96	960	CX44	1410	EAJ53	1492	JOHK	770	LS3	630	OKB	922	PRF4	923
CC109	1090	CX46	1450	EAJ55	1492	JOIK	830	LS4	670	OKK	1113	PRF6	1050
CC117	1170	CX48	1500	FFZ	1400	JOJG	1040	LS5	1110	OKP	633	PRF7	1380
CC136	1360	EAJ1	790	FJP	600	JOJK	710	LS6	1350	OKR	1004	PRF8	950
CC141	1410	EAJ2	735	F31CD	840	JOJG	800	LS7	1310	ONACE	1492	PRF9	1360
CC143	1430	EAJ3	850	HAE	1122	JOJK	700	LS8	1230	ONACE	1500	PRG3	1280
CD103	1030	EAJ4	1492	HAE2	1321	JOLG	890	LS9	1270	ONAEB	1492	PRG4	1442
CD111	1110	EAJ5	731	HAE3	1438	JOLK	680	LS10	590	ONARW	1500	PRG5	720
CD112	1120	EAJ6	1492	HAE4	1465	JONG	600	LS11	1440	PFBI	995	PRG6	1500
CD121	1210	EAJ7	1095	HAL	546	JONK	940	LT1	780	PP	959	PRG7	1330
CD132	1320	EAJ8	1258	HC2ET	1153	JOOG	1080	LT3	1080	PRA2	750	PRG9	1200
CD136	1360	EAJ9	1492	HC2JB	1250	JOOK	960	LT5	1160	PRA3	860	PRH2	600
CNO	983	EAJ10	1492	HJN	681	JOPK	780	LT7	1340	PRA4	840	PRH3	1120
CNR	601	EAJ11	1500	HJ1ABA	1330	JOJK	920	LT8	840	PRA5	1295	PRH4	1480
CPX	1300	EAJ12	1492	HJ1ABM	1154	JORK	720	LT9	1200	PRA6	815	PRH8	820
CP4	1040	EAJ13	1492	HJ3ABD	1100	JOSK	735	LT10	1300	PRA7	706	PYG2	1070

FOREIGN B. C. STATIONS BY CALLS

PGY8	1250	RW82	608	XGML	714.3	XHJA	1280	XQKB	750	2NZ	1170	4BK	1290
RW9	722	RW84	635	XGOA	660	XHKA	1050	XQKC	810	2QN	1440	4BU	1480
RW10	1438	RW85	871	XGOB	1090	XHKB	590	YDA	1510	2RN	1340	4CA	1470
RW13	960	RW86	1013	XGOC	1130	XHKC	1210	YLZ	583	25M	1270	4GR	1000
RW16	710	SBA	704	XGOD	990	XKRI	1071	YN	648	27M	1300	4GY	1430
RW17	686	SBB	941	XGOE	1290	XLHA	780	YVIRC	960	2UE	950	4IP	1440
RW18	610	SBC	1312	XGOF	860	XLHB	560	YV3RC	1200	2UW	1110	4MB	1060
RW20	1185	SBD	601	XGOG	560	XLHC	720	YV4RC	750	2WG	1150	4MK	1160
RW22	617	SBH	1131	XGOI	900	XLHD	720	YV5RMO	1300	2WL	1430	4PM	1360
RW23	676	SCA	1402	XGOK	750	XLHE	1380	YV11RMO	1034	2XN	1340	4QG	800
RW26	776	SCB	1402	XGOL	1030	XLHF	1380	YV6RV	670	2YA	570	4QN	600
RW27	689	SCC	1086	XGON	930	XLHI	760	ZBW	845	2YB	760	4RK	910
RW28	635	SCD	1402	XGOP	950	XLHJ	760	ZEK	640	2YC	840	4RO	1330
RW28	725	SCE	1402	XGOS	711	XLHK	800	ZP1	1135	2ZD	1170	4TO	1170
RW29	648	SCF	1402	XGOT	1000	XLHL	800	ZP4	1275	2ZF	960	4WK	900
RW30	913	SCG	1402	XGOT	1220	XLHM	1120	ZP5	1465	2ZH	820	4YA	790
RW31	625	SCH	1402	XGOW	1010	XLHN	1120	ZP9	898	2ZJ	980	4YO	1140
RW32	635	SCI	1402	XGOX	1070	XLHO	1400	ZTB	790	2ZL	1240	4ZB	1010
RW33	1050	SCJ	1530	XGOY	690	XLHQ	1440	ZTC	600	2ZM	1150	4ZC	1280
RW34	522	SCK	1312	XGOZ	1150	XLIA	1320	ZTD	750	2ZO	1400	4ZL	1220
RW35	598	SCL	1402	XGSA	1335	XLIB	1450	ZTJ	645	2ZP	900	4ZM	1010
RW36	586	SCM	1402	XGSS	610	XLID	1370	ZTP	952	2ZR	920	4ZO	1010
RW38	662	SCN	1402	XGTM	840	XLIE	1170	ZUG	560	3AK	1500	4ZP	620
RW39	832	SCO	1312	XGTM	900	XLIF	1250	1YA	650	3AR	630	4ZR	1340
RW40	959	SCP	1402	XGYI	1150	XLII	830	1YX	880	3AW	1280	5AD	1310
RW41	563	SCQ	1312	XHGS	730	XLIJ	790	1ZB	1090	3BA	1320	5CK	640
RW42	565	SCR	1402	XHHA	840	XLIK	1330	1ZM	1260	3BO	970	5CL	730
RW46	686.5	SCS	1402	XHMB	740	XLIL	870	1ZS	1420	3DB	1030	5DN	960
RW48	704	SCT	1402	XHMD	860	XLIM	910	2AD	1080	3GI	830	5KA	1200
RW50	617	SCU	1240	XHHE	940	XLIN	1390	2AY	1480	3GL	1350	5MU	1450
RW51	794	SCV	1402	XHHF	960	XLIO	1090	2BE	1470	3HA	1010	5PI	1040
RW52	556	SCW	1402	XHHG	1020	XLIQ	850	2BH	1330	3HS	1370	5RM	850
RW54	580	SPTT	859	XHHH	1040	XLIR	1230	2BL	740	3KZ	1180	6AM	980
RW54	950	TUA	1275	XHHI	1060	XLKA	1194	2CA	1050	3LO	770	6CK	1240
RW55	932	VPB	705	XHHJ	1080	XLKB	825	2CH	1190	3MA	900	6GF	720
RW56	640	VQ7LO	858	XHHK	620	XLKS	1490	2CO	670	3SH	1080	6IX	1240
RW57	1068	VUB	855	XHHL	1140	XLPH	1210	2CR	550	3TR	1240	6KG	1210
RW61	888	VUC	810	XHNN	1200	XLTC	1210	2FC	610	3UZ	930	6ML	1130
RW64	740	VUD	880	XHPP	1260	XMHA	600	2GB	870	3WR	1260	6PR	880
RW65	734	VUG	933	XHHQ	1280	XMHB	980	2GF	1210	3WV	580		
RW67	968	VUL	1200	XHHR	1340	XMHC	700	2GN	1390	3XY	1420	6WA	560
RW68	577	VUM	770	XHHS	1100	XOCL	1500	2GZ	990	3YA	720	6WF	690
RW69	968	VUP	1500	XHHT	1500	XOMO	1450	2HD	1140	3YB	1060	7BU	1390
RW70	1040	XDYF	1270	XHUU	1160	XQHA	580	2KA	1160	3YL	1200	7HO	820
RW71	689	XGCK	990	XHHV	880	XQHB	850	2KO	1410	3ZM	1470		
RW73	859	XGDX	1470	XHHX	920	XQHC	1300	2KY	1020	3ZR	940	7LA	1100
RW74	680	XGED	1340	XHHY	1240	XQHD	1360	2LV	980	4AK	1220	7NT	750
RW75	1095	XGF	833	XHHZ	1180	XQHE	1460	2MO	1360	4AY	980		
RW78	767	XGKA	895	XHIA	1410	XQHF	1480	2NC	1230	4BC	1120	7UV	1460
RW79	610	XGMM	1005	XHIB	970	XQKA	1350	2NR	700	4BH	1380	7ZL	590

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

540 kcys. (555.2)

CJRM ak 1000 F Moose Jaw, Sask.

—J. Richardson & Sons, 311 Main St.

550 kcys. (545.1)

CFNB ak 500 F (1) Fredericton, N. B.
 KFUD ae 500 2 (1) St. Louis, Mo.
 KFYZ ae 1000 N (5) Bismarck, N. D.
 KOAC ak 1000 Corvallis, Ore.
 KSD ak 1000 2R (5) St. Louis, Mo.
 KTSX ak 1000 C (5) San Antonio, Tex.
 WDEV ae 500 D Waterbury, Vt.
 WGR ck 1000 C Buffalo, N. Y.
 WKRC ak 1000 C Cincinnati, Ohio
 WWSA ak 500 D Harrisonburg, Va.

—J. S. Neill & Sons, York St.
 —Evangelical Lutheran Synod, 801 DeMun St
 —Meyer Brcdstg. Co., 320 Broadway
 —State Agricultural College.
 —St. Louis Post-Dispatch.
 —Southwest Brcdstg. Co., Plaza Hotel.
 —Mary M. Whitehill, Stowe St.
 —Buffalo Brcdstg. Corp., Rand Bldg.
 —WKRC, Inc., Hotel Alms
 —Marion Gilliam, Main & Market Sts.

560 kcys. (535.4)

KFDM ak 500 (1) Beaumont, Tex.
 KLZ ae 1000 C Denver, Colo.
 KSFO ak 1000 San Francisco, Cal.

—Sabine Brcdstg. Co., Box 2950
 —Shirley-Savoy Hotel.
 —Russ Building.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KWTO	ak	5000	D	Springfield, Mo.
WFIL	ak	1000	B	Philadelphia, Pa.
WIND	ak	1000	(5)	Gary, Ind.
WIS	ae	1000	N (5)	Columbia, S. C.
WOAM	ae	1000	C	Miami, Fla.
XEAO	ak	250	(15)	Mexicali, L. C.
XEFC	ak	100	....	Merida, Yuc.

570 keys. (526.0)

KGKO	ak	250	C (1)	Wichita Falls, Tex.
KMTR	ak	1000	....	Hollywood, Calif.
KVI	ak	1000	C	Tacoma, Wash.
WKBN	ae	500	1C	Youngstown, Ohio
WMCA	ak	500	....	New York, N. Y.
WNAX	ak	1000	C (5)	Yankton, S. D.
WOSU	ak	750	1 (1)	Columbus, Ohio
WSYR	ak	250	BX	Syracuse, N. Y.
WWNC	ak	1000	N	Asheville, N. C.

580 keys. (516.9)

CFPR	z	50	....	Prince Rupert, B.C.
CHRC	ak	100	F	Quebec, Que.
CJGX	ae	100	F	Yorkton, Sask.
CKCL	ae	100	F	Toronto, Ont.
CKUA	ak	500	....	Edmonton, Alta.
KMJ	ak	1000	C	Fresno, Calif.
KSAC	ak	500	2 (1)	Manhattan, Kans.
WCHS	ak	500	(1)	Charleston, W. Va.
WDBO	ae	1000	C	Orlando, Fla.
WIBW	ak	1000	C2 (5)	Topeka, Kans.
WTAG	ae	500	R	Worcester, Mass.

590 keys. (508.2)

KHQ	ak	1000	R (2.5)	Spokane, Wash.
WEEL	ak	1000	R	Boston, Mass.
WKZO	ae	1000	DX	Kalamazoo, Mich.
WOW	ae	5000	R(5)	Omaha, Nebr.
XEPN	ak	50000	....	Piedras Negras, Coah.

600 keys. (499.7)

CFCF	ae	400	FN	Montreal, Que.
CJOR	ak	500	....	Vancouver, B. C.
CMW	ak	1400	....	Havana, Cuba
CRCW	ak	500	F (1)	Windsor, Ont.
FON	z	250	609	St. Pierre, Miq.
KFSD	ae	1000	B	San Diego, Calif.
WCAC	ak	500	2	Storrs, Conn.
WCAO	ae	500	C (1)	Baltimore, Md.
WICC	ae	500	2 C (1)	Bridgeport, Conn.
WMT	ak	1000	B (2.5)	Cedar Rapids, Ia.
WREC	ak	1000	C (2.5)	Memphis, Tenn.

610 keys. (491.5)

KFRC	ck	1000	C (5)	San Francisco, Cal.
WDAF	ak	1000	R (5)	Kansas City, Mo.
WIP	ae	1000	....	Philadelphia, Pa.
WJAY	ae	500	D	Cleveland, Ohio
XFX	ak	1000	....	Mexico City, D. F.

620 keys. (483.6)

KGW	ak	1000	R (5)	Portland, Ore.
KTAR	ae	1000	N	Phoenix, Ariz.
WFLA	ae	1000	Na (5)	Clearwater, Fla.
WHJB	ak	250	D	Greensburg, Pa.
WLBZ	ak	500	C (1)	Bangor, Maine
WSUN	ae	1000	Na (5)	St. Petersburg, Fla.
WTMJ	ae	1000	N (5)	Milwaukee, Wis.

—Ozarks Brdcastg. Co., St. Louis & Kimbrough
 —WFIL Brdcastg. Co., 801 Market St.
 —Johnson-Kennedy Corp., 504 Broadway
 —Station WIS, Inc., Box 635
 —Miami Brdcastg. Co., 327 N. E. First Ave.
 —Luis Castro, Altamirano 156
 —J. Molina Font., Calle 59, No. 517

—W. F. Brdcastg. Co., Ninth and Indiana.
 —KMTR Radio Corp., 915 N. Formosa Ave.
 —Puget Sound Brdcastg. Co., Rust Bldg.
 —WKBN Brdcastg. Corp., 17 N. Champion St.
 —Knickerbocker Brdcastg. Co., 1697 Broadway
 —WNAX Brdcastg. Co., Second and Capitol
 —Ohio State University
 —315 Starret-Syracuse Bldg.
 —Citizen Brdcastg. Co., Inc., Flatiron Bldg.

—Felix E. Batt, Box 79
 —CHRC, Ltd., Victoria Hotel
 —155 Royal Alexandra Hotel, Winnipeg, Man.
 —Dominion Battery Co., 444 University
 —University of Alberta
 —J. McClatchy Co., Van Ness and Calaveras
 —State College of Agriculture
 —WOBU, Inc., Ruffner Hotel
 —Orlando Brdcastg. Co., Box 1097
 —11th and Topeka Blvd.
 —Worcester Telegram, 18 Franklin St.

—Louis Wasmer, Inc., Sprague & Post.
 —Edison Electric Co., 182 Tremont.
 —WKZO, Inc., Burdick Hotel
 —Woodmen of the World, 4th and Farnam
 —Piedras Negras Brdcastg. Co., Box 360

—Canadian Marconi Co., Royal Hotel
 —G. C. Chandler, Hotel Grosvenor
 —Paseo de Marti 105
 —C. R. B. C., Guaranty Trust Bldg.,
 —Airfan Radio Corp., U. S. Grant Hotel
 —Connecticut State College
 —Monumental Radio Co., 811 W. Lanvale
 —So. Conn. Brdcastg. Corp., Stratfield Hotel
 —Iowa Brdcastg. Co., Hotel Montrose
 —WREC, Inc., Hotel Peabody

—Don Lee Brdcastg. Sys., 1000 Van Ness Ave.
 —Kansas City Star, 1729 Grand Ave.
 —Penn. Brdcastg. Corp., Gimbel Bldg.
 —Cleveland Brdcastg. Corp., 1224 Huron Road
 —Secretario de Educacion Publica.

—Oregonian Pub. Co., 325 Adler St.
 —KTAR Brdcastg. Corp., Heard Bldg.
 —Chamber of Commerce, Box 119
 —Pittsburgh Radio Supply Co., 128 Penna. Ava.
 —Maine Brdcastg. Co., 100 Main St.
 —Chamber of Commerce, Recreation Pier
 —The Journal Co., 333 W. State St.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

630 kcys. (475.9)

CFCO	ak	100	F	Chatham, Ont.
CFCY	ae	1000	F	Charlottetown, P.E.I.
CJRC	ak	500	F(1.)	Winnipeg, Man.
CKOV	ak	100	F	Kelowna, B. C.
KFRU	ak	500	1 (1)	Columbia, Mo.
KGFX	ak	200	D	Pierre, S. D.
WGFB	ak	500	1	Evansville, Ind.
WMAL	ak	250	B (5)	Washington, D. C.
WOL	ak	500	1D	Jefferson City, Mo.
WPRO	ak	250	.....	Providence, R. I.
XEZ	z	500	.....	Merida, Yuc.

—John Beardall, Wm. Pitt Hotel
 —Island Radio Co., 143 Great George St.
 —155 Royal Alexandra Hotel
 —Okanagan Brdcstrs., Box 243
 —KFRU, Inc., Ninth and Elm Sts.
 —Dana McNeil, Box 573
 —Evansville on the Air, 519 Vine St.
 —NBC, Inc., 712 - 11th St., N. W.
 —State Highway Control, Capitol Bldg.
 —Cherry & Webb Brdcstg. Co., 15 Chestnut
 —Jorge L. Falomeque

640 kcys. (468.5)

CMBC	dj	150	.....	Havana, Cuba.
KFI	ah	50000	R	Los Angeles, Calif.
WAIU	ae	500	.....	Columbus, Ohio
WOI	ae	5000	D	Ames, Iowa
XEOX	ak	500	.....	Saltillo, Coah.

—Maximo Gomez 139
 —Earle C. Anthony, Inc., 1000 S. Hope St.
 —Deshler-Wallick Hotel
 —Iowa State College
 —Antonio Garza C., Victoria 4 (altos)

650 kcys. (461.3)

WSM	ae	50000	N	Nashville, Tenn.
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—National Life and Accident, 301 Seventh St.

660 kcys. (454.3)

WAAW	ak	500	D	Omaha, Neb.
WEAF	ak	50000	R	New York, N. Y.

—Omaha Grain Exchange
 —NBC, Inc., 30 Rockefeller Plaza

670 kcys. (447.5)

WMAQ	ak	50000	N	Chicago, Ill.
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—NBC, Inc., Merchandise Mart

680 kcys. (440.9)

CMCG	ak	150	Havana, Cuba.
KFEQ	ak	2500	D	St. Joseph, Mo.
KPO	ak	50000	R	San Francisco, Cal.
RDN	z	500	.....	San Salvador, E.S.
VAS	akn	2000	685	Glace Bay, N. S.
VOWR	ck	500	681	St. John's, Nfld.
WPTF	ae	5000	DnN	Raleigh, N. C.

—La Onda, S. A., Calle Malecon 340
 —KFEQ, Inc., Schneider Bldg.
 —NBC, Inc., 111 Sutter St.
 —Republic of El Salvador
 —Canadian Marconi Co., Ltd.
 —Wesley United Church, Box 157
 —WPTF Radio Co., 324 Fayetteville St.

690 kcys. (434.5)

CFRB	ak	10000	C	Toronto, Ont.
CJGJ	aj	100	F	Calgary, Alta.
NAA	akn	1000	.....	Arlington, Va.
XET	ak	500	.....	Monterrey, N. L.

—Rogers-Majestic Corp., 37 Bloor St.
 —Albertan Pub. Co., New Albertan Bldg.
 —United States Navy
 —P. O. Box 203, Hidalgo.

700 kcys. (428.3)

WLW	ak	500000	N	Cincinnati, Ohio
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—Crosley Radio Corp., 1329 Arlington St.

710 kcys. (422.3)

KIRO	ae	500	Seattle, Wash.
KMPC	ak	500	.....	Beverly Hills, Cal.
WOR	ak	50000	.....	Newark, N. J.
XEN	ak	1000	.....	Mexico City, D. F.

—Tower Bldg.
 —Bev. Hills Brdcstg. Corp., 9631 Wiltshire
 —Bamberger Brdcstg. Sys., 147 Market St.
 —G. de la Conde, Dolores No. 1

720 kcys. (416.4)

WGN	ak	50000	Chicago, Ill.
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—WGN, Inc., 435 N. Michigan Ave.

730 kcys. (410.7)

CFPL	ak	100	F	London, Ont.
CJCA	ah	1000	F	Edmonton, Alta.
CKAC	ck	5000	C	Montreal, Que.
CMK	ae	3000	.....	Havana, Cuba

—London Free Press, Richmond St.
 —Edmonton Journal, 10122 - 100 A St.
 —La Presse Pub. Co., 980 St. Catherine St.
 —Cia. Nacional de Radio, Hotel Plaza

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

740 keys. (405.2)

KMMJ ae 1000 D Clay Center, Neb.
 KTRB ak 250 D Modesto, Calif.
 WHEB ak 250 D Portsmouth, N. H.
 WSB ah 50000 N Atlanta, Ga.

—The M. M. Johnson Co.
 —McTammany & Bates, Box 405
 —Granite State Brcdstg Corp., Box 522
 —Atlanta Journal, 7 N. Forsyth St.

750 keys. (399.8)

CMCW dk 150 Havana, Cuba
 KGU aj 2500 N Honolulu, T. H.
 WJR ak 50000 C Detroit, Mich.
 XEAM z 7.5 Matamoros, Tams.

—Radio Pilot, San Lazaro 113
 —Advertiser Pub. Co., Kapiolani & South Sts.
 —WJR, Inc., Fisher Bldg.
 —Edificio Banco Longoria

760 keys. (394.5)

CMHX ak 200 Cienfuegos, Cuba
 KXA ae 250 (5) Seattle, Wash.
 WBAL ae 2500 BSy Baltimore, Md.
 WEW ae 1000 D St. Louis, Mo.
 WJZ ak 50000 BSy New York, N. Y.
 XEOK z 250 Tijuana, L. C.

—F. Chavarry, P. O. Box 205
 —American Radio Tel. Co., 312 Bigelow Bldg.
 —American Radio News Corp., Lexington Bldg.
 —St. Louis University, 221 N. Grand Blvd.
 —NBC, Inc., 30 Rockefeller Plaza
 —Carlos de la Sierra, Calle 5a, 312

770 keys. (389.4)

CMBS ak 150 Havana, Cuba
 KFAB ae 10000 CSy Lincoln, Neb.
 WBBM ae 50000 CSy Chicago, Ill.

—Calzada y "H" St., Vedado, Havana
 —KFAB Brcdstg. Co., Cornhusker Hotel
 —WBBM Brcdstg. Corp., 410 N. Michigan Ave.

780 keys. (384.4)

CHWK dk 100 F Chilliwack, B. C.
 CKSO ak 1000 F Sudbury, Ont.
 CMJK ak 250 Camaguey, Cuba
 KELW ak 500 2 Burbank, Calif.
 KFDF ae 1000 D Brookings, S. D.
 KFOD ck 250 Anchorage, Alaska
 KGHL ak 1000 N (2.5) Billings, Mont.
 KTM ak 500 2 (1) Los Angeles, Calif.
 WEAN ae 500 C Providence, R. I.
 WMC ak 1000 N (5) Memphis, Tenn.
 WTAR ae 500 N (1) Norfolk, Va.
 XEYZ z 10000 Mexico City, D. F.

—Chilliwack Brcdstg. Co., Box 452
 —W. E. Mason, Grand Theatre Bldg.
 —Cia Nacional de Radio, Finlay No. 3
 —Magnolia Park Ltd., 3702 Magnolia Park Blvd
 —South Dakota State College, Box L.
 —Anchorage Radio Club, 411 Fourth Ave.
 —Northwestern Auto Supply, 5th and Broadway
 —214 So. Vermont St.
 —Shepard Brcdstg. Serv., New Crown Hotel
 —WMC, Inc., Hotel Gayoso
 —WTAR Radio Corp., Bank of Commerce Bldg.
 —Angel M. Diez, Avenida Juarez 48

790 keys. (379.5)

CMGH z 250 Matanzas, Cuba
 KGO ak 7500 B San Francisco, Cal.
 WGY ak 50000 R Schenectady, N. Y.

—"Rialto," E. Blanchet 25
 —NBC, Inc., 111 Sutter St.
 —General Electric Co., 1 River Road

800 keys. (374.8)

HIX ak 700 Trujillo, D. R.
 WBAP ak 50000 Na Fort Worth, Tex.
 WFAP ak 50000 Na Dallas, Tex.
 WTBO ak 250 D Cumberland, Md.

—J. R. Saladin, Director General
 —Ft. Worth Star-Telegram
 —A. H. Belo Corp., Baker Hotel
 —Associated Brcdstg. Corp., Box 794

810 keys. (370.2)

CMCF ak 600 Havana, Cuba
 WCCO ae 50000 D Minneapolis, Minn.
 WNYC ak 1000 D New York, N. Y.
 XFC z 350 Aguascalientes, Ags.

—Oscar Gutierrez, Paseo de Marti 9
 —Northwestern Brcdstg. Co., Nicollet Hotel
 —City of N. Y., Centre & Duane Sts.
 —Gobierno del Estado de Aguascalientes

820 keys. (365.6)

CMHW ak 100 Cienfuegos, Cuba.
 WHAS aj 50000 C Louisville, Ky.
 XEMZ z Coronado Isle, L. C.

—Ramon Gonzales, Box 226
 —Courier-Journal, 300 W. Liberty St.

830 keys. (361.2)

KOA ak 50000 N Denver, Colo.
 WEEU ak 1000 D Reading, Pa.

—NBC, Inc.
 —Berks Brcdstg. Co., 533 Pennsylvania

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WHDH ae 1000 Dn Boston, Mass.
WRUF ae 5000 Dn Gainesville, Fla.

840 kcys. (356.9)

CFQC ak 1000 F Saskatoon, Sask.
CRCT ak 5000 FN Toronto, Ont.
VOGY ak 400 St. John's, Nfld.
XERA ck 250000 Villa Acuna, Coah.

850 kcys. (352.7)

CMBN z 150 Havana, Cuba
KIEV ak 250 D Glendale, Calif.
TIEP z 500 San Jose, C. R.
WESG ak 1000 C Elmira, N. Y.
WKAR ae 1000 D East Lansing, Mich.
WWL ae 10000 C New Orleans, La.
XEFE z 250 Nuevo Laredo

860 kcys. (348.6)

WABC ak 5000 C New York, N. Y.
WHB ak 1000 D Kansas City, Mo.
XEMO ak 5000 Tijuana, L. C.

870 kcys. (344.6)

WENR ak 5000 Na Chicago, Ill.
WLS ae 5000 Na Chicago, Ill.

880 kcys. (340.7)

CFJC ak 100 F Kamloops, B. C.
CMQ ak 500 Havana, Cuba
CRCO ak 1000 F Ottawa, Ont.
KFKA ak 500 2 (1) Greeley, Colo.
KLX ae 1000 Oakland, Calif.
KPOF ae 500 2 Denver, Colo.
WCOC ae 500 (1) Meridian, Miss.
WGBI ae 500 1 Scranton, Pa.
WPHR ak 500 D Petersburg, Va.
WQAN ae 250 1 Scranton, Pa.
WSUI ae 500 (1) Iowa City, Iowa

890 kcys. (336.9)

KARK ak 250 (.5) X Little Rock, Ark.
KFNF ak 500 2 (1) Shenandoah, Iowa
KFPY ak 1000 C X Spokane, Wash.
KUSD ae 500 2 Vermillion, S. D.
WBAA ak 1000 D W. Lafayette, Ind.
WGST ak 1000 C Atlanta, Ga.
WILL ak 250 2 (1) Urbana, Ill.
WJAR ae 500 R Providence, R. I.
WMMN ak 500 C(1) Fairmount, W. Va.
XEW ak 50000 Mexico City, D. F.

900 kcys. (333.1)

KGBU ak 500 Ketchikan, Alaska
KHJ ae 1000 C (5) Los Angeles, Calif.
KSEI ck 250 (.5) Pocatello, Idaho
WBEN ak 1000 R (5) Buffalo, N. Y.
WELI z 500 D New Haven, Conn.
WFMD ah 500 D Frederick, Md.
WJAX ae 1000 N (5) Jacksonville, Fla.
WKY ae 1000 N Oklahoma City, Okla.
WLBL ak 2500 D Stevens Point, Wis.
WTAD ak 500 D Quincy, Ill.

910 kcys. (329.6)

CJAT ak 1000 F Trail, B. C.

—Metheson Radio Co., 62 Boylston
—University of Florida

—Electric Shop, Ltd., 216 First Ave., No.
—C. R. B. C., 805 Davenport Road
—Newfoundland Hotel
—Brinkley Hospital (Del Rio, Texas).

—Calle Pozos Dulces 3, Rpt. Ensanche
—Cannon System, Ltd., Glendale
—Eduardo Pinto H., Apartado 257
—Cornell University, Mark Twain Hotel
—Michigan State College
—Loyola University, Roosevelt Hotel
—R. T. Carranza, Km. 4 Carretera Laredo Mt.

—Atlantic Brdcastg. Corp., 485 Madison Ave.
—WHB Brdcastg. Co., Scarritt Bldg.
—Box 202, San Diego, Calif.

—NBC, Inc., Merchandise Mart
—Agricultural Brdcastg. Co., 1230 Wash. Blvd.

—Review Publishing Co., Wilcox-Hall Bldg.
—25 Numero 445, Vedado, Havana
—C. R. B. C., Chateau Laurier Hotel
—Mid-Western Radio Corp., Box 735
—Tribune Tower
—Pillar of Fire, 1845 Champa St.
—Mississippi Brdcastg. Co., Box 603
—Scranton Brdcasters, Inc., 1000 Wyoming Ave.
—WLBG, Inc., Medical Arts Bldg.
—Scranton Times, 149 Penn Ave.
—State University of Iowa

—N. S. L. Building
—Henry Field, 407 Sycamore St.
—Symons Brdcastg. Co., Symons Bldg.
—University of South Dakota
—Purdue University
—Ga. School of Technology, Ansley Hotel
—University of Illinois
—Outlet Co., Weybossett St.
—W. Va. Brdcastg. Corp., 208 Main St.
—Cadena Radiodifusora Mexicana, Box 2516

—Alaska Radio & Serv. Co., Mile 5, Wards Cove
—Don Lee System, 7th and Bixel Sts.
—Radio Service Corp., 141 So. 6th St.
—WBEN, Inc., Hotel Statler
—Patrick J. Goode
—Francis Scott Key Hotel
—City of Jacksonville
—WKY Radiophone Co., Plaza Court Bldg.
—State of Wisc., Fox Theater Bldg.
—Illinois Brdcastg. Corp., State and 6th

—Kootenay Brdcastg. Co., Box 1959

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

GRCM ak 5000 F Montreal, Que.
 XENT ak 150000 ... Nuevo Laredo, Tams.

920 kcs. (325.9)

CMX ae 1000 ... Havana, Cuba
 HHK ae 1000 ... Port-au-Prince, Haiti
 KFEL ak 500 a ... Denver, Colo.
 KOMO ak 1000 R (5) Seattle, Wash.
 KPRC ak 1000 N (5) Houston, Texas
 KVOD ak 500 a Denver, Colo.
 WAAF ak 1000 D Chicago, Ill.
 WORL ae 500 D Needham, Mass.
 WPEN ak 250 (.5) 1 Philadelphia, Pa.
 WRAX ak 250 1 (.5) Philadelphia, Pa.
 WSPA ae 1000 D Spartanburg, S. C.
 WWJ ak 1000 R (5) Detroit, Mich.
 XEAA ak 200 ... Mexicali, L. C.

930 kcs. (322.4)

CFAC ak 100 F Calgary, Alta.
 CFCH ak 100 F North Bay, Ont.
 CFCL ae 100 ... Prescott, Ont.
 CHNS ae 1000 F Halifax, N. S.
 CKPC ae 100 F Brantford, Ont.
 CKPR ak 100 F Fort William, Ont.
 KGBZ ak 1000 2 (2.5) York, Neb.
 KMA ak 1000 2 (2.5) Shenandoah, Iowa
 KROW ak 1000 ... Oakland, Calif.
 TIRH z 50 ... San Jose, C. R.
 WBRC ak 1000 C Birmingham, Ala.
 WDBJ ae 1000 C(5) Roanoke, Va.
 XEBH z 500 ... Hermosillo, Sonora

940 kcs. (319.0)

KOIN ak 1000 C (5) Portland, Ore.
 VOAS ak 100 ... St. John's, Nfld.
 WAAT ae 500 D Jersey City, N. J.
 WAVE bk 1000 N Louisville, Ky.
 WGSB ae 1000 R (2.5) Portland, Maine
 WDAY ae 1000 N (5) Fargo, N. D.
 WHA ak 2500 D Madison, Wis.
 XEFO ak 5000 (XFO) Mexico City, D. F.

950 kcs. (315.6)

CJOC ak 100 F Lethbridge, Alta.
 CMCD ak 250 ... Havana, Cuba
 CRCS ak 100 F Chicoutimi, Que.
 KFWSL ak 1000 (5) Hollywood, Calif.
 KHSL ak 250 D Chico, Calif.
 KMBC ae 1000 C (5) Kansas City, Mo.
 WRC ak 500 R (1) Washington, D. C.
 YNVA z 30 ... Managua, Nic.

960 kcs. (312.3)

CKY ak 15000 F Winnipeg, Man.
 XEAW ck 50000 ... Reynosa, Tams.

970 kcs. (309.1)

CMBY z 150 ... Havana, Cuba.
 KJR ak 5000 B Seattle, Wash.
 WCFL ae 5000 B Chicago, Ill.
 WIBG ak 100 D Glenside, Pa.

980 kcs. (306.0)

KDKA ae 50000 B Pittsburgh, Pa.
 XEF z 100 ... Juarez, Chih.

990 kcs. (302.8)

WBZ ak 50000 BSy Boston, Mass.

—C. R. B. C., 1231 St. Catherines St., W.
 —P. O. Box 410, Laredo, Texas

—Calle Obrapia y Oficis
 —Haitian Government
 —Eugene O'Fallon, Inc., Albany Hotel
 —Fishers Blend Station, Inc., Skinner Bldg.
 —Houston Printing Co., Lamar Hotel
 —Colorado Radio Corp., Continental Oil Bldg.
 —Drovers Journal Pub. Co., Palmer House
 —Wm. Penn Brdcastg. Co., 22nd and Walnut St.
 —WRAX Brdcastg. Co., 217 So. Broad St.
 —Virgil V. Evans, Ravenel & Avant Sts.
 —The Detroit News, 616 Lafayette Blvd.
 —P. O. Box 714, Calexico, Calif.

—T. P. & C. Brdcastg. Co., Southam Bldg.
 —Roy H. Thompson, Capitol Theater Bldg.
 —Radio Assn. of Prescott, 307 George St.
 —Maritime Brdcastg. Co., Lord Nelson Hotel
 —Telephone City Brdcastg. Ltd., Arcade Bldg.
 —Douglass Motor Co., Royal Edward Hotel
 —KGBZ Brdcastg. Co., 719 Grant Ave.
 —Earl E. May Seed and Nursery Co.
 —Educational Brdcastg. Corp., 1803 Franklin St.
 —Birmingham Brdcastg. Co., Bankhead Hotel
 —Times World Corp., P. O. Box 150
 —Carlos Halderamma, Obregon 10

—KOIN, Inc., New Heathman Hotel
 —Ayre and Sons, Ltd., Water St.
 —Bremer Brdcastg. Corp., 50 Journal Sq.
 —WAVE, Inc., 1525 Brown Hotel
 —Congress Square Hotel Co.
 —WDAY, Inc., Black Bldg., 118 Broadway
 —University of Wisconsin, Radio Hall
 —Av. 5 de Mayo 19

—H. R. Carson, Ltd., Marquis Hotel
 —Calle "G" y 25, Vedado, Havana
 —C. R. B. C., 4 Rue Larouche
 —Warner Bros. Motion Pictures, Inc.
 —Golden Empire Brdcastg. Co.
 —Midland Brdcastg. Co., Pickwick Hotel
 —NBC, Inc., National Press Bldg.

—Manitoba Telephone System, Sherbrooke St.
 —Cia. Int. Difurosa Reynosa, Aptdo. 6

—Calle Infanta 132
 —Fishers Blend Station, Skinner Bldg.
 —Chi. Fed. of Labor, 666 Lake Shore Drive
 —Seaboard Radio Brdcastg. Corp.

—Westinghouse Elec. & Mfg. Co., Grant Bldg.

—Westinghouse El. & Mfg. Co., Hotel Bradford

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WBZA ak 1000 B5y Springfield, Mass.
 XEAF ak 500 Nogales, Sonora
 XEK ak 100 Mexico City, D. F.
 XES dk 250 Tampico, Tams.

1000 kcys. (299.8)

CMBZ ak 150 Havana, Cuba
 KFVD ak 250 Dn Los Angeles, Calif.
 TIGH z 500 San Jose, C. R.
 WHO ak 5000 R Des Moines, Iowa
 XEBK z 100 Nuevo Laredo, Tams.
 XEY z 10 Merida, Yuc.

1010 kcys. (296.9)

CHML ak 100 F Hamilton, Ont.
 CHWC ak 500 3F Regina, Sask.
 CKCD ak 100 Vancouver, B. C.
 CKCK ak 500 3F Regina, Sask.
 CKCO ak 100 F Ottawa, Ont.
 CKIC ak 50 Wolfville, N. S.
 CKWX ak 100 F Vancouver, B. C.
 GMJA ak 50 Camaguey, Cuba
 KGGF ak 1000 2 Coffeyville, Kans.
 KOW ak 1000 San Jose, Calif.
 TIGA z 30 1014 Cartago, C. R.
 WIN ae 1000 (5) New York, N. Y.
 WNAD ae 1000 2 Norman, Okla.
 WNOX ak 1000 C (2) Knoxville, Tenn.
 XEU ak 250 Veracruz, Ver.

1020 kcys. (293.9)

KYW ak 1000 R Philadelphia, Pa.
 WDZ ak 250 D Tuscola, Ill.
 XEJ ak 1000 Juarez, Chih.

1030 kcys. (291.1)

CFCN ak 10000 Calgary, Alta.
 CKLW ag 5000 Windsor, Ont.
 CMCY ak 1000 Havana, Cuba
 XEB ak 10000 Mexico City, D. F.

1040 kcys. (288.3)

KRLD ae 10000 C Dallas, Texas
 KWJJ ak 500 Portland, Ore.
 WTIC ah 50000 Hartford, Conn.

1050 kcys. (285.5)

CMKD ak 250 Santiago, Cuba
 CRCK ak 1000 F Quebec, Que.
 KFBI ak 5000 Dn Abilene, Kans.
 KNX ak 50000 Hollywood, Calif.
 TIFA z 75 San Jose, C. R.

1060 kcys. (282.8)

CMBX ak 200 Havana, Cuba.
 KTHS ae 10000 N Hot Springs, Ark.
 VOAC z 40 1065 St. John's, Nfld.
 WBAL ak 10000 B Baltimore, Md.
 WJAG ak 1000 D Norfolk, Neb.
 XEA ak 500 Guadaluajara, Jal.

1070 kcys. (280.2)

CMHA z 50 Sagua la Grande, C.
 KJBS ak 500 Dn San Francisco, Cal.
 WCAZ ak 100 D Carthage, Ill.
 WTAM ak 50000 R Cleveland, Ohio

—Westinghouse El. & Mfg. Co., Hotel Kimball
 —Francisco G. Elias, Hotel Central
 —Arturo Martinez, Jalapa No. 51
 —Fernando Sada, Box 309

—M. y G. Salas, San Rafael No. 14
 —E. L. Cord, 645 Mariposa
 —Central Brdcastg. Co., 914 Walnut St.
 —Ramon Rubio, Calle 64, No. 568

—Maple Leaf Radio Co., Pigott Bldg.
 —R. H. Williams & Sons, Kitchener Hotel
 —Van. Daily Province, 142 Hastings St., W.
 —Leader-Post, Ltd., 1853 Hamilton St.
 —Dr. Geldert, 272 Somerset St., W.
 —Acadia University
 —Western Brdcastg. Co., Hotel Georgia
 —Rafael Valdez, P. O. Box 64
 —Powell & Platz, Coffeyville Journal Bldg.
 —87 E. San Antonio St.

—Marcus Loew Agency, 1540 Broadway
 —University of Oklahoma
 —Continental Brdcastg. Corp., Hotel Johnson
 —Fernando Pazos S., Independencia 98

—Westinghouse Elec. Co., 1622 Chestnut St.
 —WDZ Brdcastg. Co., Inc.
 —Juan G. Buttner, P. O. Box 111

—Grant & Love, Toronto Gen. Trust Bldg.
 —Guaranty Trust Building
 —Manuel Outran, Calle "G" 215, Vedado
 —El Buen Tono, S. O., Aptdo. 79-44

—KRLD Radio Corp., Adolphus Hotel
 —KWJJ Brdcastg. Co., 622 Salmon St.
 —Travelers Brdcastg. Co., 26 Grove St.

—Radioemisora Oriental, Box 23
 —C. R. B. C., Chateau Frontenac Hotel
 —Farmers and Bankers Life, Box 345
 —West. Brdcastg. Co., 1558 N. Vine St.

—Alberto Alvarez, San Miguel 194
 —Chamber of Commerce, Box 86
 —American Radio News Corp., Lexington Bldg.
 —Norfolk Daily News
 —Alberto Palos Sauza

—Abelardo Menocal, Carrillo No. 31
 —Julius Brunton & Sons, 1380 Bush St.
 —Superior Brdcastg. Service, 97½ Adams
 —NBC, Inc., 1367 E. 6th St.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1080 keys. (277.6)

WBT ak 5000 C Charlotte, N. C.
 WCBD ak 5000 1Dn Waukegan, Ill.
 WMBI ak 5000 1Dn Chicago, Ill.

— Station WBT, Inc., Wilder Bldg.
 — WCBD, Inc., Karcher Hotel
 — Moody Bible Institute, 153 Institute Place

1090 keys. (275.1)

KMOX ak 5000 C St. Louis, Mo.
 XEAQ ak 1000 Rosarito, L. C.

— Voice of St. Louis, 401 S. 12th St.
 — P. O. Box 32, Tijuana

1100 keys. (272.6)

CRCV ak 500 F Vancouver, B. C.
 KGDM ak 1000 D Stockton, Calif.
 KWKH ae 10000 C Shreveport, La.
 WLWL ae 5000 1 New York, N. Y.
 WPG ak 5000 1C Atlantic City, N. J.
 XEL z 250 Mexico City, D. F.

— C. R. B. C., 1150 Main St.
 — E. F. Peffer, 42 S. California St.
 — Times Pub. Co., Spring & Fannin Sts.
 — 415 W. 59th St.
 — City of Atlantic City, Convention Hall
 — Plaza de San Juan 15

1110 keys. (270.1)

CMCJ ak 500 Havana, Cuba.
 KSOO ak 2500 Dn Sioux Falls, S. D.
 WRVA ae 5000 N Richmond, Va.
 XELO z 10000 Piedras Negras, Co.

— Rafael Rodriguez, Estevez No. 4
 — Sioux Falls Brdcstg. Co., Carpenter Hotel
 — Larus & Bros. Co., 22nd and Gary Sts.
 — Piedras Negras Brdcstg. Co., Madero 53

1120 keys. (267.7)

CHLP ak 100 F Montreal, Que.
 CHSJ ae 500 F (1) St. John, N. B.
 CKOC ae 500 F (1) Hamilton, Ont.
 CKX ak 100 F Brandon, Man.
 CMGF dk 150 Matanzas, Cuba
 CMKM ak 200 Manzanillo, Cuba
 KFIO ae 100 D Spokane, Wash.
 KFGS ag 500 a (2.5) Los Angeles, Calif.
 KRKD aj 500 a (2.5) Los Angeles, Calif.
 KRSC ak 100 D Seattle, Wash.
 WCOP ak 500 D Boston, Mass.
 WDEL ak 250 (.5) Wilmington, Del.
 WISN ak 250 (1) Milwaukee, Wis.
 WTAW ae 500 College Station, Tex.

— La Patrie Pub. Co., Sun Life Bldg.
 — N. B. Brdcstg. Co., Admiral Beatty Hotel
 — Westworth Brdcstg. Co., Wentworth Bldg.
 — Manitoba Telephone System, City Hall Sq.
 — Calle Grnl. Betancourt 51
 — Merchan Figeredo, P. O. Box 4
 — Spokane Brdcstg. Corp., Ziegler Bldg.
 — Echo Park Assn., 1100 Glendale Blvd.
 — Radio Brdcsters. Inc., 815 Spring Arcade
 — Radio Sales Corp., Wash. Athletic Club
 — Joseph M. Kirby, Hotel Copley-Plaza
 — WDEL, Inc., 10th and King Sts.
 — Hearst Radio, Inc., 123 W. Michigan St.
 — Agricultural & Mechanical College

1130 keys. (265.3)

CMJI ak 50 Ciego de Avila, Cuba
 KSL ae 5000 C Salt Lake City, Utah
 WJJD ak 20000 Dn Chicago, Ill.
 WOV ag 1000 D New York, N. Y.

— Gilberto Gesse Lopez, Independencia 95
 — Radio Service Corp., Vermont Bldg.
 — WJJD, Inc., 201 N. Wells St.
 — International Brdcstg. Co., 132 W. 43rd St.

1140 keys. (263.0)

CMBG z 200 Havana, Cuba
 KVOO ak 25000 1N Tulsa, Okla.
 WAPI ae 5000 1N Birmingham, Ala.
 WSPR z 500 P Springfield, Mass.

— John L. Stowers, Hospital No. 100
 — Southwestern Sales Corp., Wright Bldg.
 — WAPI Brdcstg. Corp., Protective Life Bldg.
 — Connecticut Valley Brdcstg. Co.

1150 keys. (260.7)

CMJF z 200 Camaguey, Cuba
 WHAM ae 50000 B Rochester, N. Y.
 XED ak 2500 1155 Guadalajara, Jal.
 XEFL z 250 Tijuana, L. C.
 XEII ak 250 Monterrey, N. L.
 XEWZ ak 100 Mexico City, D. F.

— John L. Stowers, Republica No. 88
 — Stromberg-Carlson Mfg. Co., 100 Carlson Rd.
 — Cia. Radiofonografica, Aptdo. 197
 — P. O. Box 6, San Diego, Calif.
 — Tarnava y Cia., P. O. Box 147
 — Jesus Valezzi E., P. O. Box 291

1160 keys. (258.5)

CMHJ z 100 Cienfuegos, Cuba
 WOWO ae 10000 1C Fort Wayne, Ind.
 WVVVA ak 5000 1C Wheeling, W. Va.
 XEAS z 100 Saltillo, Coah.

— Romualdo Ugalde, Sta. Elena 104
 — Main Auto Supply Co., 213 W. Main St.
 — W. Va. Brdcstg. Corp., Hawley Bldg.
 — "La Voz del Comercio en Saltillo."

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

NEC z 30 Tijuana, L. C.
 XESL z Tijuana, L. C.

1170 kcys. (256.3)

CMBD z 150 Havana, Cuba
 WCAU ae 50000 C Philadelphia, Pa.

1180 kcys. (254.1)

CMJO ak 50 Ciego de Avila, Cuba
 KEX ak 5000 2B Portland, Ore.
 KOB ak 10000 2 Albuquerque, NM.
 VE9EK ak 10 1185 Montmagny, Que.
 WDGY ak 1000 Dn (5) Minneapolis, Minn.
 WINS ak 1000 New York, N. Y.
 WMAZ ak 1000 Macon, Ga.
 XEFA z 500 Mexico City, D. F.

1190 kcys. (252.0)

HIJ z 15 1195 Trujillo, D.R.
 VONF ak 500 1195 St. John's, Nfld.
 WATR ak 100 D Waterbury, Conn.
 WOAJ ak 50000 N San Antonio, Tex.
 WSAZ ak 1000 Huntington, W. Va.

1200 kcys. (249.9)

CHAB ak 100 F Moose Jaw, Sask.
 CKNX ak 50 Wingham, Ont.
 CKTB ae 100 F St. Catherines, Ont.
 CMCO ak 150 Havana, Cuba
 KADA ak 100 D Ada, Okla.
 KBTM ak 100 D Jonesboro, Ark.
 KFBJ ak 100 (.25) Marshalltown, Iowa
 KF XD ae 100 (.25) Nampa, Idaho
 KF XJ ak 100 (.25) Grand Junc., Colo.
 KGDE ak 100 (.25) Fergus Falls, Minn.
 GDEK ak 100 Sterling, Colo.
 KG FJ ae 100 Los Angeles, Calif.
 KGHI ak 100 (.25) Little Rock, Ark.
 KMLB ak 100 Monroe, La.
 KSUN ak 100 Lowell, Ariz.
 KVOS dk 100 Bellingham, Wash.
 KWG ak 100 C Stockton, Calif.
 WABI ak 100 Bangor, Maine
 WAIM ak 100 Anderson, S. C.
 WBBZ ak 100 Ponca City, Okla.
 WBNO ak 100 I New Orleans, La.
 WCAT ak 100 D Rapid City, S. D.
 WCAX ak 100 Burlington, Vt.
 WCLO ak 100 Janesville, Wis.
 WCPO ak 100 (.25) Cincinnati, Ohio
 WEST ae 100 3 (.25) Easton, Pa.
 WFAM ak 100 8 South Bend, Ind.
 WHBC ak 100 (.25) Canton, Ohio
 WHBY ak 100 (.25) Green Bay, Wis.
 WIBX aej 100 (.3) C Utica, N. Y.
 WIL ak 100 (.25) St. Louis, Mo.
 WJBC ak 100 6 (.25) Bloomington, Ill.
 WJBL ak 100 6 Decatur, Ill.
 WJBW ak 100 I New Orleans, La.
 WJNO z 100 P W. Palm Beach, Fla.
 WKBO ak 100 3 (.25) Harrisburg, Pa.
 WLVA ak 100 (.25) Lynchburg, Va.
 WMFR ae 100 D High Point, N. C.
 WMPC ak 100 (.25) Lapeer, Mich.
 WNRI ak 100 (.25) Newport, R. I.
 WRBL ak 100 Columbus, Ga.
 WTHT z 100 DP Hartford, Conn.
 WWAE ae 100 8 Hammond, Ind.
 z 100 Redding, Calif.

1210 kcys. (247.8)

CJCS z 50 Stratford, Ont.

Luis F. Encisco, Teatro Zaragoza

Luis Perez G., Calle 17, 3, Vedado
 WCAU Brdctg. Corp., 1622 Chestnut St.

B. Hdefonso, Calle Maceo y C. Central
 Oregonian Pub. Co., Oregonian Bldg.
 Albuquerque Journal, Box 1319
 J. A. Marquis, Box 52
 Dr. Geo. W. Young, 909 W. Broadway
 Hearst Radio, Inc., 114 E. 58th St.
 Southeastern Brdctg. Co., 211 Cotton Ave.
 Eduardo Limon S., Mediterraneo 236

Tuto Baez, Hostos 34
 Dominion Brdctg. Co., Ltd., Box 135
 WATR, Inc., 47 Grand St.
 Southland Industries, Inc., 1038 Navarro
 WSAZ, Inc., P. O. Box 729

CHAB, Ltd., P. O. Box 26
 Wingham Radio Club, Box 65
 E. T. Sandell, Welland House
 Enrique Lasanta, Calle Oficios 116
 C. C. Morris
 Jay P. Beard
 Marshall Elec. Co., Inc., 1603 W. Main St.
 Frank E. Hurt, 1024 Twelfth Ave., S.
 Western Slope Brdctg. Co., Hillcrest Manor
 C. L. Jaren
 Elmer G. Beebler, 109 W. 2nd St.
 Ben S. McGlashan, 1417 S. Figueroa
 Arkansas Brdctg. Co., Marion Hotel
 Liners Brdctg. Station, Francis Hotel
 Copper Electrical Co., Drawer C
 KVOS, Inc., 115 W. Magnolia St.
 Medico-Dental Building
 Community Brdctg. Service
 Anderson College
 C. L. Carrell, 407 W. South Ave.
 Coliseum Baptist Church, Hotel New Orleans
 South Dakota State School of Mines
 Burlington Daily News, 203 College St.
 Gazette Prtg. Co., 200 E. Milwaukee St.
 Continental Radio Co., Hotel Sinton
 Lancaster Broadcasting Service
 South Bend Tribune, 225 W. Collax Ave.
 Edw. P. Graham, 319 Tuscola St., W.
 WIBY, Inc., Bellin Bldg.
 WIBX, Inc., First Nat'l Bank Bldg.
 Missouri Brdctg. Corp., Melbourne Hotel
 Kaskaskia Brdctg. Co.
 Commodore Brdctg. Co., Gushard Bldg.
 C. C. Carlson, Godchaux Bldg.
 Hazelwood, Inc.
 Keystone Brdctg. Corp., Penn Harris Hotel
 Lynchburg Brdctg. Corp., 915 Main St.
 Hart and Nelson
 First Methodist Church, 81 Liberty St.
 S. George Webb, 21 Bull St.
 WRBL, Inc., Royal Theater Bldg.
 Hartford Times, Inc.
 Hammond-Calumet Brdctg. Corp.
 Golden Empire Brdctg. Co.

M. I. Higgins, 151 Ontario St.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

GJCU	z	50	....	Aklavik, N. W. T.	—Dr. J. A. Urquhart, Dept. of Interior
CKBI	ak	100	F	Prince Albert, Sask.	—Prince Albert Radio Club, Canada Bldg.
CKCH	ak	100	F	Hull, Que.	—CKCH Brdcastg. Co., Standish Hall Hotel
CKMC	ak	50	....	Cobalt, Ont.	—R. L. MacAdam
CMHI	ak	150	....	Santa Clara, Cuba	—Lavis y Paz, Independencia No. 34
KASA	ck	100	....	Elk City, Okla.	—E. M. Woody, Casa Grande Hotel
KDLR	ak	100	....	Devils Lake, N. D.	—KDLR, Inc., 1025 Third St.
KDON	z	100	....	Del Monte, Calif.	—Richard F. Lewis, 498 Washington St.
KFJI	ak	100	....	Klamath Falls, Ore.	—KFJI Brdcasters, Inc., Willard Hotel
KFOR	ae	100	(25)	C Lincoln, Neb.	—Howard Shuman, Hotel Lincoln
KFPW	ak	100	....	Fort Smith, Ark.	—Southwestern Hotel Co., Goldman Hotel
KFVS	ak	100	6(25)	Cape Girardeau, Mo.	—Oscar C. Hirsch, Box 275
KFXM	ak	100	9	San Bernardino, Calif.	—Lee Bros. Brdcastg. Co., California Hotel
KGY	ak	100	....	Olympia, Wash.	—KGY, Inc., 11th and Capitol Way
KIUL	ak	100	....	Garden City, Kans.	—Garden City Brdcastg. Co.
KPPC	ak	50	9	Pasadena, Calif.	—Pasadena Presb. Church, 585 E. Colorado
KVSO	ak	100	D	Ardmore, Okla.	—Ardmoreite Publishing Co., Inc.
KWTN	ak	100	....	Watertown, S. D.	—Midland Life Insurance Bldg.
TGW	ak	10000	....	Guatemala City	—Ministerio de Fomento
WALR	ak	100	....	Zanesville, Ohio	—WALR Brdcastg. Corp., 1st Trust & Bank Bldg.
WBAX	ae	100	....	Wilkes Barre, Pa.	—John A. Stenger, Jr., 70 S. Main St.
WBBL	ak	100	S	Richmond, Va.	—Grace Presb. Church, 1627 Monument Ave.
WBRB	ak	100	3	Red Bank, N. J.	—Monmouth Brdcastg. Corp., 63 Broad St.
WCOL	ak	100	....	Columbus, Ohio	—WCOL, Inc., 33 N. High St.
WCRW	ae	100	4	Chicago, Ill.	—Clinton R. White, 2756 Pine Grove Ave.
WEBQ	ae	100	6(25)	Harrisburg, Ill.	—Harrisburg Brdcastg. Co., 100 E. Poplar
WEDC	ae	100	4	Chicago, Ill.	—Emil Denemark, 3850 Ogden Ave.
WFAS	ak	100	3	White Plains, N. Y.	—Westchester Brdcastg. Corp., Hotel Roger Smith
WGBB	ae	100	3	Freeport, N. Y.	—H. H. Carman, 64 S. Grove St.
WGCM	ae	100	(25)	Gulfport, Miss.	—WGCM, Inc.
WGN	ak	100	3	Chester, N. Y.	—Peter Goelet (Orange County)
WHBF	ak	100	(25)	Rock Island, Ill.	—Rock Island Brdcastg. Co., Hotel Harms
WHBU	ak	100	(25)	Anderson, Ind.	—Anderson Brdcastg. Corp., Box 816
WIBU	ak	100	(25)	Poynette, Wis.	—Wm. C. Forrest, R. F. D. No. 3
WJBY	ak	100	....	Gadsden, Ala.	—Gadsden Brdcastg. Co., 112 N. 8th St.
WJEL	ae	100	D	Hagerstown, Md.	—Hagerstown Brdcastg. Co., Lovely Dame Bldg.
WJFM	z	100	(25)	Lansing, Mich.	—Capital City Brdcastg. Co.
WJW	ae	100	(25)	Akron, Ohio	—WJW, Inc., 41 S. High St.
WKOK	ak	100	....	Sunbury, Pa.	—Sunbury Brdcastg. Co., 1150 N. Front St.
WMBG	ak	100	C(25)	Richmond, Va.	—Haves & Martin, Inc., 914 W. Broad St.
WMFG	z	100	....	Hibbing, Minn.	—Head of the Lakes Brdcastg. Co.
WMFN	ak	100	....	Clarksdale, Miss.	—Attala Brdcastg. Corp., Box 180
WOCL	ak	50	....	Jamestown, N. Y.	—A. E. Newton, 840 N. Main St.
WOMT	ak	100	....	Manitowoc, Wis.	—Francis M. Kadow, Box 326
WPAX	ak	250	D	Thomasville, Ga.	—H. Wimpy, 135 E. Jackson St.
WSAY	z	100	DP	Rochester, N. Y.	—Brown Radio Service, 192 S. Goodman St.
WSBC	ae	100	4	Chicago, Ill.	—Gene T. Dyer, 1258 S. Michigan Ave.
WSIX	ak	100	Y	Springfield, Tenn.	—638 Tire and Vulcanizing Co.
WSOC	ak	100	N(25)	Charlotte, N. C.	—WSOC, Inc., 516 W. Trade St.
WTAX	ak	100	....	Springfield, Ill.	—WTAX, Inc., 416 E. Capitol Ave.
XEAT	z	50	....	Hidalgo, Chih.	—Alejandro Stevenson, Jr., Aptdo. 148
XEE	z	50	....	Durango, Dgo.	—J. Onofre M., Tlaxcala 1013
XEFV	ak	100	....	Juarez, Chih.	—Ramon Huerta G., Calle 17, Oriente 11
XETH	ak	100	....	Puebla, Pue.	

1220 kcys. (245.8)

CMJE	z	50	....	Camaguey, Cuba	—Manuel Fernandez, Illos. Aguero No. 2
KFKU	ae	1000	a(5)	Lawrence, Kans.	—University of Kansas
KTW	ak	1000	S2	Seattle, Wash.	—1st Presb. Church, 7th and Spring Sts.
KWSC	ae	1000	2(2)	Pullman, Wash.	—State College of Washington
WCAE	ak	500	D	Canton, N. Y.	—St. Lawrence University
WCAE	ak	1000	R(5)	Pittsburgh, Pa.	—Pitt Publishing Co.
WDAE	ae	1000	C(2,5)	Tampa, Fla.	—Tampa Times Co., Tampa Terrace
WREN	ak	1000	Ba(5)	Lawrence, Kas.	—WREN Brdcastg. Co., 7th and Vermont Sts.
XETF	ak	12	....	Veracruz, Ver.	—Jose R. Lopez, Independencia 28

1230 kcys. (243.8)

CMCB	ak	150	....	Havana, Cuba	—Antonio Capablanca, Metropolitan Bldg.
KGBX	ak	500	....	Springfield, Mo.	—Springfield B'cast Co., St. Louis & Kimbrough
KGGM	ak	250	(5)	Albuquerque, N.M.	—New Mexico Brdcastg. Co., KIMO Bldg.
KYA	ak	1000	N	San Francisco, Calif.	—Pacific Brdcastg. Corp., 988 Market St.
WFBM	ae	1000	C(5)	Indianapolis, Ind.	—307 N. Pennsylvania St.
WNAC	ak	1000	C(2,5)	Boston, Mass.	—Sheppard Brdcastg. Serv., 21 Brookline Ave.
XEFJ	ak	100	....	Monterrey, N. L.	—Junco de la Vega, P. O. Box 186
YNOP	z	100	....	Managua, Nic.	—.....

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1240 kcys. (241.8)

CJCB	ak	1000	F	Sydney, N. S.
CMHB	z	50		Sancti Spiritus, Cuba
KGCU	ak	250	1	Mandan, N. D.
KLPM	ak	250	1	Minot, N. D.
KTAT	ak	1000		Fort Worth, Texas
KTFI	ae	1000		Twin Falls, Idaho
WKAQ	ae	1000		San Juan, P. R.
WXYZ	ak	1000	B	Detroit, Mich.
XEAC	z	250		Tijuana, L. C.
XEAI	z	100		Mexico City, D. F.
XEKL	z	500		Leon, Guan.
XELA	z	50		Saltillo, Coah.
XEME	z	15		Merida, Yuc.

- N. Nathanson, 318 Charlotte St.
- V. E. Weiss y Cia., Independencia 33
- Mandan Radio Assn., 404 W. Main St.
- John P. Cooley, Box 707
- Fort Worth National Bank Bldg.
- Radio Brdctg. Corp., Box 521
- Radio Corp. of Puerto Rico, Box 1414
- Kunsky-Trendle Brdctg. Corp.
-
- Carlos Conzaes C., Insurgentes 366
- Cla. Radio del Bajio, 5 de Mayo 26
-
-

1250 kcys. (239.9)

CMKC	ak	150		Santiago, Cuba
KFOX	ae	1000		Long Beach, Calif.
WCAL	ah	1000	2(2.5)	Northfield, Minn.
WDSU	ak	1000		New Orleans, La.
WHBI	ak	1000	a(2.5)	Newark, N. J.
WLB	ak	1000	2	Minneapolis, Minn.
WNEW	ae	1000	a(2.5)	Newark, N. J.
WTCN	ak	1000	2(5)	Minneapolis, Minn.

- J. A. Saco, P. O. Box 466
- Nichols & Warinner, 220 E. Anaheim St.
- St. Olaf College
- WDSU, Inc., Hotel Monteleone
- May Brdctg. Corp., 100 Shipman St.
- University of Minnesota
- Wodaam Corp., 100 Shipman St.
- Minn. Brdctg. Corp., Wesley Temple Bldg.

1260 kcys. (238.0)

CFRN	ak	100	F	Edmonton, Alta.
KGVO	ak	1000		Mosoula, Mont.
KOIL	ak	1000	B(2.5)	Council Bluffs, Ia.
KPAC	ak	500	D	Port Arthur, Texas
KRGV	ak	500		Weslaco, Texas
KUOA	ak	1000	D	Fayetteville, Ark.
KVOA	ak	500		Tucson, Ariz.
WHIO	ae	1000	R	Dayton, Ohio
WNBX	ak	1000		Springfield, Vt.
WTOC	ae	1000	C	Savannah, Ga.

- G. R. A. Rice, 109 C. P. R. Bldg.
- Mosby's, Inc., 240 N. Higgins
- Central States Brdctg. Co.
- Port Arthur College
- KRGV, Inc.
- KUOA, Inc., Washington Hotel
- Ariz. Brdctg. Co., Cons. Natl. Bank Bldg.
- Miami Valley Corp., 39 S. Ludlow St.
- WNBX Brdctg. Corp., 39 Main St.
- Savannah Brdctg. Co., DeSoto Hotel

1270 kcys. (236.1)

CMHD	dk	250		Caibarien, Cuba
KGCA	ak	100	2D	Decorah, Iowa
KOL	ae	1000	C(2.5)	Seattle, Wash.
KVOR	ae	1000	C	Colorado Sp'gs. Colo.
KWLC	ak	100	2D	Decorah, Iowa
WASH	ak	500	aN	Grand Rapids, Mich.
WFRB	ae	500	R	Baltimore, Md.
WJDX	ae	1000	N(2.5)	Jackson, Miss.
WOOD	ak	500	aN	Grand Rapids, Mich.
XEG	z	200	C	Ensenada, L. C.
XFB	ak	250		Jalapa, Ver.
YNLF	z	20	1275	Managua, Nic.

- Manuel Alvarez M., Escobar 17
- Chas. W. Greenley, 201 Water St.
- Seattle Brdctg. Co., Northern Life Tower
- S. H. Patterson, Antlers Hotel
- Luther College
- Kunsky-Trendle Brdctg. Corp.
- Baltimore Radio Show, 7 St. Paul St.
- Lamar Life Insurance Co.
- Kunsky-Trendle Brdctg. Corp.
- Juan C. Chavez, Av. Obregon 958
- Gobierno del Estado de Veracruz

1280 kcys. (234.2)

KFBB	ae	1000	(2.5)	Great Falls, Mont.
WCAM	ae	500	I	Camden, N. J.
WCAP	ae	500	I	Asbury Park, N. J.
WDOD	ak	1000	C(5)	Chattanooga, Tenn.
WIBA	ae	1000	N(5)	Madison, Wis.
WORC	ak	500	C	Worcester, Mass.
WRR	ak	500		Dallas, Texas
WTNJ	ak	500	I	Trenton, N. J.
XEMX	z	12		Mexico City, D. F.

- Buttrely Brdctg. Co., P. O. Box 1817
- City of Camden, City Hall
- Radio Industries, Inc., Convention Hall
- WDOD Brdctg. Corp., Hotel Patten
- Badger Brdctg. Co., 111 King St.
- Alf. E. Kleindienst, 60 Franklin St.
- City of Dallas, Southland Bldg.
- Trenton Brdctg. Co., Stacy Trent Hotel
- Alfonso T. Avales, Salamanca 87

1290 kcys. (232.4)

KDYL	ak	1000	NX	Salt Lake City, Utah
KLCN	ak	100	D	Blytheville, Ark.
KTRH	ak	1000	C(5)	Houston, Texas
WEBG	ae	1000	N(5)	Superior, Wis.
WJAS	ak	1000	C(2.5)	Pittsburgh, Pa.
WNBZ	z	100	D	Saranac Lake, N. Y.
WNEL	ak	1000	(2.5)	San Juan, P. R.

- Intermountain Brdctg. Corp.
- C. L. Lintzenich, Main & Division Sts.
- KTRH Brdctg. Co., Rice Hotel
- Spaulding Hotel, Duluth, Minn.
- Chamber of Commerce Bldg.
- Smith and Mace, 70 Broadway
- Juan Piza, Box 1252

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1300 kcys. (230.6)

KALE	ak	500	3C	Portland, Ore.
KFAC	ak	1000		Los Angeles, Calif.
KFH	ak	1000	C	Wichita, Kans.
KFJR	ag	500	3	Portland, Ore.
WBRR	ae	1000	1	Brooklyn, N. Y.
WVVD	ak	1000	1	New York, N. Y.
WFAB	ae	1000	1	New York, N. Y.
WFBC	ak	1000	(5)N	Greenville, S. C.
WHAZ	ae	500	1	Troy, N. Y.
WHBL	ae	500	Z	Sheboygan, Wis.
WIOD	ak	1000	N	Miami, Fla.

1310 kcys. (228.9)

CHCK	ak	50		Charlottetown, P.E.I.
CJKL	ak	1000	F	Kirkland Lake, Ont.
CJLS	ak	100		Yarmouth, N. S.
CKCV	ak	100	F	Quebec, Que.
KCRJ	ak	100	D	Jerome, Ariz.
KFPL	dk	100	(25)	Dublin, Texas
KFXR	ak	100	(25)	Oklahoma City, Okl.
KFYO	dk	100	(25)	Lubbock, Texas
KGCX	ak	100	(25)	Wolf Point, Mont.
KGEZ	aj	100		Kalispell, Mont.
KGFW	ak	100		Kearney, Neb.
KINY	ak	100		Juneau, Alaska
KIT	ak	100	(25)	Yakima, Wash.
KIUJ	ak	100		Santa Fe, N. Mex.
KMED	ck	100	(25)	Medford, Ore.
KPND	z	100	DP	Pampa, Texas
KRMD	ak	100		Shreveport, La.
KROC	z	100		Rochester, Minn.
KTSM	ak	100		El Paso, Texas
KVOL	ak	100		Lafayette, La.
KXRO	ak	100		Aberdeen, Wash.
WAML	ak	100		Laurel, Miss.
WBEO	ae	100		Marquette, Mich.
WBOW	ak	100	(25)	Terre Haute, Ind.
WBRE	ak	100		Wilkes Barre, Pa.
WCLS	ak	100		Joliet, Ill.
WCMI	z	100		Ashland, Ky.
WDAH	ak	100	S	El Paso, Texas
WBR	ach	100	(25)	Buffalo, N. Y.
WEMP	z	100	D	Milwaukee, Wis.
WEXL	ak	50		Royal Oak, Mich.
WFBG	ae	100	3	Altoona, Pa.
WFDF	mk	100		Flint, Mich.
WGH	aj	100	(25)	Newport, News, Va.
WHAT	ak	100	4	Philadelphia, Pa.
WJAC	ae	100	3	Johnstown, Pa.
WLAK	z	100	P	Lakeland, Fla.
WLBC	ak	100	6(25)	Muncie, Ind.
WLNH	ak	100		Laconia, N. H.
WMBO	ak	100		Auburn, N. Y.
WNFF	ak	250	D	Plattsburg, N. Y.
WNBH	ak	100	(25)	New Bedford, Mass.
WOL	ak	100		Washington, D. C.
WRAP	ak	100		Reading, Pa.
WROL	ak	100	(25)	Knoxville, Tenn.
WSAJ	ae	100		Grove City, Pa.
WSCN	ak	100	(25)	Birmingham, Ala.
WSJS	ak	100	C	Winston-Salem, N.C.
WTAL	ak	100		Tallahassee, Fla.
WTEL	ce	100	4	Philadelphia, Pa.
WTJS	ak	100	(25)	Jackson, Tenn.
WTRC	ak	100	6(25)	Elkhart, Ind.
XEAC	z	10		Cordoba, Ver.
XECW	z	10		Mexico City, D. F.
XEFW	ak	250		Tampico, Tams.
XETB	ak	125		Torreón, Coah.
XEX	ak	125		Monterrey, N. L.
XFA	z	5		Aguaascalientes, Ags.

1320 kcys. (227.1)

CMOX	ak	250		Havana, Cuba
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-KALE, Inc., New Heathman Hotel
-E. L. Cord, 645 So. Mariposa
-KFH, 124 1/2 S. Market St.
-KFJR, Inc., 622 Lumberman's Bldg.
-People's Pulpit Assn., 124 Columbia Hts.
-Jewish Daily Forward, Hotel Claridge
-5th Ave. Brcdstg. Corp., 154 W. 57th St.
-Greenville News-Piedmont Co., Imperial Hot.
-Rensselaer Polytechnic Institute, 8th Ave.
-Press Publishing Co., Press Bldg.
-Isle of Dreams Brcdstg. Corp., Biscayne Blvd.

-Burke & Gesner, 36 Upper Hillsboro St.
-Northern Brcdstg. Co., Ltd.
-Laurie L. Smith, Grand Hotel
-CKCV, Ltd., 142 St. John St.
-Chas. C. Robinson, Drawer D.
-C. C. Baxter, Box 176
-541 Hightower Bldg.
-Kirksey Bros., Hotel Lubbock
-E. E. Krebsbach
-Donald C. Treloar, Box 1
-Cent. Nebr. Brcdstg. Corp., 919 W. 27th
-Edwin A. Kraft
-Carl E. Haymond, 109 1/2 E. Yakima Ave.
-W. C. Ervin
-Mrs. W. J. Virgin, Sparta Bldg.
-Pampa Daily News
-KRMD, Inc., Jefferson Hotel
-Southern Minnesota Brcdstg. Co.
-Tri-State Brcdstg. Co., Box 1976
-Evangeline Hotel
-KXRO, Inc., Hotel Morck
-New Laurel Radio Co., Box 26
-Lake Superior B'cstg. Co., 146 W. Washington
-Banks of the Wabash, Inc., 19 Beach Block
-Louis G. Baltimore, 16 N. Main St.
-WCLS, Inc., 301 E. Jefferson St.
-Ashland Brcdstg. Co., Box 106
-Tri-State Brcdstg. Co., Box 1976
-Howell Brcdstg. Co., Inc., 23 North St.
-Milwaukee Brcdstg. Co.
-Royal Oak Brcdstg. Co., 212 W. 6th St.
-Gable Brcdstg. Co., 12th Ave. & 13th St.
-Flint Brcdstg. Co., Union Industrial Bldg.
-Hampton Rds. Brcdstg. Co., 2813 Washington
-Independent B'cstg. Co., Public Ledger Bldg.
-WJAC, Inc., Locust St.
-Lake Region Brcdstg. Co.
-D. A. Burton, Anthony Bldg.
-Northern Brcdstg. Co., 523 Main St.
-WMBO, Inc., Metcalf Bldg.
-Plattsburg Brcdstg. Corp., Hotel Cumberland
-E. Anthony & Sons, 251 Union St.
-American Brcdstg. Co., Annapolis Hotel
-Reading Brcdstg. Co., 533 Penn St.
-Stuart Brcdstg. Corp., 524 S. Gay St.
-Grove City College, 418 Poplar St.
-R. R. Broyles, Tutwiler Hotel
-Winston-Salem Journal Co., 416 N. Marshall
-Florida Capitol Brcdsters., Inc.
-Foulkrod Radio Eng. Co., 3701 N. Broad
-Sun Publishing Co., Sun Bldg.
-Truth Publishing Co., Hotel Elkhart
-M. E. Bravo de Cordero, Av. Juarez 104
-J. E. Martinez, Salvador Diaz Miron 6
-P. O. Box 225
-L. F. Petit Jean, P. O. Box 10
-Apartado Postale 92

-10 entre 17 y 19, Vedado

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KGHF	ak	500	...	Pueblo, Colo.
KGMB	ak	1000	C	Honolulu, T. H.
KID	ae	500	(1)	Idaho Falls, Idaho
KRNT	ak	500	C(1)	Des Moines, Iowa
WADC	ae	1000	C(2.5)	Akron, Ohio
WORK	ak	1000	...	York, Pa.
WSMB	ak	500	N	New Orleans, La.

1330 keys. (225.4)

CMHK	z	250	...	Crucas, Cuba
KGB	ag	1000	C(2.5)	San Diego, Calif.
KMO	ak	250	...	Tacoma, Wash.
KSCJ	aj	1000	1C(2.5)	Sioux City, Iowa
WDRG	ae	1000	C(5)	Hartford, Conn.
WSAI	ak	1000	R(2.5)	Cincinnati, Ohio
WTAQ	ae	1000	1	Green Bay, Wis.

1340 keys. (223.7)

CMJL	z	75	...	Camaguey, Cuba
HRN	z	50	...	Tegucigalpa, Hond.
KGDY	ak	250	D	Huron, S. D.
KGIR	ak	1000	N(2.5)	Butte, Mont.
KGNO	ak	250	...	Dodge City, Kans.
WCOA	ak	500	C	Pensacola, Fla.
WFEA	ae	500	C(1)	Manchester, N. H.
WSPD	ae	1000	C(5)	Toledo, Ohio
XFD	z	350	...	Jalapa, Ver.

1350 keys. (222.1)

CMCA	z	250	...	Havana, Cuba
KIDO	ak	1000	(2.5)	Boise, Idaho
KWK	ak	1000	B(5)	St. Louis, Mo.
WAWZ	ae	500	1(1)	Zarephath, N. J.
WBNX	ae	250	1	New York, N. Y.

1360 keys. (220.4)

CMJH	dk	50	...	Ciego de Avila, Cuba
KCRC	ak	250	...	Enid, Okla.
KGER	ak	1000	...	Long Beach, Calif.
WCSC	ak	500	(1)N	Charleston, S. C.
WFBL	ak	1000	C(5)	Syracuse, N. Y.
WGES	ae	500	1	Chicago, Ill.
WQBC	ak	1000	D	Vicksburg, Miss.
WSBT	ak	500	1	South Bend, Ind.

1370 keys. (218.8)

CKCW	ak	100	F	Moncton, N. B.
CMGE	ak	150	...	Cardenas, Cuba
HIZ	z	10	...	Trujillo, D. R.
KAST	ak	100	D	Astoria, Ore.
KELD	z	100	...	El Dorado, Ark.
KERN	ak	100	...	Bakersfield, Calif.
KFGO	ak	100	...	Boone, Iowa
KFJM	ak	100	(2.5)	Grand Forks, N. D.
KFJZ	ae	100	...	Fort Worth, Texas
KFRO	ak	100	D	Longview, Texas
KGAR	ae	100	(2.5)	Tucson, Ariz.
KGFG	bk	100	...	Oklahoma City, Okla.
KGFL	ak	100	4	Roswell, N. M.
KGKL	ak	100	(2.5)	San Angelo, Texas
KICA	ak	100	4	Clovis, N. M.
KIUP	ak	100	...	Durango, Colo.
KLUF	z	100	(2.5)	Galveston, Texas
KMAC	ak	100	5	San Antonio, Tex.
KONO	ak	100	5	San Antonio, Tex.
KRE	ak	100	(2.5)	Berkeley, Calif.
KRKO	ak	50	1	Everett, Wash.
KSLM	ak	100	...	Salem, Ore.
KUJ	ak	100	...	Walla Walla, Wash.
KVL	ak	100	1	Seattle, Wash.
KWKC	ak	100	...	Kansas City, Mo.

—C. P. Ritchie, 113 Broadway
—Honolulu Brdcastg. Co., Box 2663
—KID Brdcastg. Co., Box 487
—715 Locust St.
—Allen T. Simmons, P. O. Box 29
—York Brdcastg. Co., 15 S. Beaver St.
—WSMB, Inc., Maison Blanche Bldg.

—Virgilio Villanueva, Calle Heredia 61
—Don Lee System, 1012 First Ave.
—KMO, Inc., Hotel Winthrop
—Perkins Bros Co., 415 Douglas St.
—WDRG, Inc., Corning Bldg., 11 Asylum St.
—Crosley Radio Corp., 1329 Arlington St.
—WHBY, Inc., Bellin Bldg.

—M. Caymares, Republica 181
—Voice of S. Dak., Inc., 347 Dakota St.
—KGIR, Inc., 121 W. Broadway
—First National Bank Bldg.
—Pensacola Brdcastg. Co., San Carlos Hotel
—New Hamp. Brdcastg. Co., Carpenter Hotel
—Toledo Brdcastg. Co., 505 Jefferson
—Gobierno Estado de Veracruz

—Testar y Gonzales, Av. de Italia
—Boise Brdcastg. Station, Hotel Boise
—Thomas Patrick, Inc., Hotel Chase
—Pillar of Fire
—Standard Cahill Co., 260 E. 161st St.

—Luis Marauri H., Castilla 37
—Enid Radiophone Co., Oxford Hotel
—Consolidated Brdcastg. Co., 435 Pine St.
—S. C. Brdcastg. Corp., Francis Marion Hotel
—Onondaga Brdcastg. Co., Onondaga Hotel
—Oak Leaves Brdcastg. Co., 4000 Washington
—Delta Brdcastg. Corp., Hotel Vicksburg
—South Bend Tribune, 225 W. Colfax Ave.

—Moncton Brdcastg. Co., K. of P. Hall
—Genaro Sebatier, Av. Cespedes 180
—Abbes y Garcia, Calle Duarte 68
—Abraham Shapiro, 611 Commercial St.
—T. H. Barton
—Station KERN, Elk's Club
—Boone Biblical College, 924 W. 2nd St.
—University of North Dakota
—Ft. Worth Brdcasters., 502 Trinity Life
—Voice of Longview, Box 86
—Tucson Motor Service, 142 S. 6th Ave.
—Oklahoma Brdcastg. Co., 1113 N. Broadway
—KGFL, Inc., 507 N. Main St.
—KGKL, Inc., St. Angelus Hotel
—Southwest Brdcastg. Co.
—C. Guy Shepard, 2800 Main St.
—Geo. R. Clough, Buccaneer Hotel
—W. W. McAllister, Smith-Young Tower
—Mission Brdcastg. Co., Milam Bldg.
—First Cong. Church, 2337 Shattuck Ave.
—Lee Mudgett, 2814 Rucker Ave.
—Oregon Radio, Inc.
—KUJ, Inc., Marcus Whitman Hotel
—KVL, Inc., 2101 Smith Tower
—W. Duncan Brdcastg. Co., 3915 Main St.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KWYO	ak	100	....	Sheridan, Wyo.
WABY	aj	100	....	Albany, N. Y.
WAGF	ak	250	D	Dothan, Ala.
WATL	ak	100	....	Atlanta, Ga.
WBNY	z	100	2P(.25)	Buffalo, N. Y.
WBTM	ak	100	(.25)	Danville, Va.
WCBM	ae	100	(.25)	Baltimore, Md.
WDAS	ae	100	(.25)	Philadelphia, Pa.
WEOA	z	100	P	Evansville, Ind.
WGL	ae	100	C	Fort Wayne, Ind.
WHBF	ak	100	....	Memphis, Tenn.
WHDF	ak	100	(.25)	Calumet, Mich.
WHLB	z	100	P	Virginia, Minn.
WIBM	ak	100	(.25)	Jackson, Mich.
WLLH	ak	100	(.25)	Lowell, Mass.
WMBR	ak	100	C(.25)	Jacksonville, Fla.
WMFD	ak	100	D	Wilmington, N. C.
WMFO	ak	100	D	Decatur, Ala.
WOC	ak	100	C(.25)	Davenport, Iowa
WPAY	ak	100	....	Portsmouth, Ohio
WPFB	ak	100	....	Hattiesburg, Miss.
WQDM	ae	100	....	St. Albans, Vt.
WRAC	ak	100	(.25)	Williamsport, Pa.
WRDO	ae	100	....	Augusta, Maine
WRJN	ak	100	(.25)	Racine, Wis.
WSVS	ak	50	D2	Buffalo, N. Y.
XEFZ	ak	100	....	Mexico City, D. F.
XEI	ak	125	....	Morelia, Mich.
XEZZ	z	100	....	San Luis Potosi, SLP.
.....	z	250	DP	New Albany, Ind.
.....	z	100	P	St. Paul, Minn.

1380 keys. (217.3)

CMCR	z	150	....	Havana, Cuba.
KOH	ak	500	C	Reno, Nev.
KOV	ae	500	....	Pittsburgh, Pa.
WALA	af	500	C(1)	Mobile, Ala.
WKBH	ae	1000	....	LaCrosse, Wis.
WNBC	mk	250	D	New Britain, Conn.
WSMK	ak	200	C	Dayton, Ohio

1390 keys. (215.7)

CMJC	z	150	....	Camaguey, Cuba
HHH	ak	15	1395	San Ped.de Macoris
KLRA	ae	1000	C(2.5)	Little Rock, Ark.
KOOS	ae	250	D	Marshfield, Ore.
KOY	ae	500	(1)	Phoenix, Ariz.
WHK	ae	1000	C(2.5)	Cleveland, Ohio

1400 keys. (214.2)

CMGC	z	100	....	Matanzas, Cuba
CMKR	z	100	....	Santiago, Cuba
KLO	ak	500	N	Ogden, Utah
KTUL	ak	500	C(1)	Tulsa, Okla.
TGX	ak	250	....	Guatemala City, Gt.
WARD	ak	500	2	Brooklyn, N. Y.
WBBC	ae	500	2(1)	Brooklyn, N. Y.
WEGL	z	500	P	Brooklyn, N. Y.
WIRE	ak	500	R(1)	Indianapolis, Ind.
WLTH	ak	500	2	Brooklyn, N. Y.
WVFW	ak	500	2	Brooklyn, N. Y.

1410 keys. (212.6)

GHNC	ak	500	F(1)	New Carlisle, Que.
CKFC	ak	50	5	Vancouver, B. C.
CKMO	ag	100	5F	Vancouver, B. C.
KCNC	ae	1000	(2.5)	Amarillo, Texas
WAAB	ak	500	C	Boston, Mass.
WBCM	ae	500	....	Bay City, Mich.
WHIS	ak	250	(.5)	Bluefield, W. Va.
WROK	ak	500	....	Rockford, Ill.
WSFA	ak	500	C(1)	Montgomery, Ala.

—Big Horn Brdcastg. Co.
—Adirondack Brdcastg. Co., Hotel Ten Eyck
—Dothan Brdcastg. Co., Box 25
—Atlanta Brdcastg. Co., Volunteer Life Bldg.
—Roy L. Albertson
—Piedmont Brdcastg. Co., Miller Bldg.
—Balto. Brdcastg. Co., Keith Theater Bldg.
—WDAS Brdcastg. Co., 1211 Chestnut St.
—Evansville on the Air, Inc.
—F. C. Zieg, 213 W. Main St.
—WHBO, Inc., Hotel Claridge
—Upper Mich. Brdcastg. Co., Box 643
—Head of the Lakes Brdcastg. Co.
—WIBM, Inc., 306 W. Michigan Ave.
—Merrimac Brdcastg. Co., Box D
—Florida Brdcastg. Co.
—Richard A. Dunlea, Hotel Wilmington
—James R. Doss, Jr.
—Tri-City Broadcasting Co.
—Veebee Corp.
—Forest Brdcastg. Co., 512 Main St.
—Regan & Bostwick, 42 N. Main St.
—WRAC, Inc., 244 W. 4th St.
—WRDO, Inc., Augusta House
—Racine Brdcastg. Corp., Hotel Racine
—Seneca High School, 666 E. Delevan Ave.
—Manuel Zetina, Calle de la Rosa 92
—Carlos Gutierrez M., F. 1. Madero 545
—Zeferino Jimenez, Zaragoza 32
—North Side Brdcastg. Corp.
—Edward Hoffman

—Aurelio Hernandez, Infanta 115
—The Bee, Inc., 440 N. Virginia St.
—KQV Brdcastg. Co., 1406 C. of C. Bldg.
—Pape Brdcastg. Co., P. O. Box 288
—WKBH, Inc., 409 Main St.
—Wm. J. Sanders, 147 Main St.
—WSMK, Inc., 121 N. Main St.

—Felix Sanchez, Calle Cisneros y Gnrl. Gomez
—Domingo Dominguez
—Arkansas Brdcastg. Co., Box 550
—Pacific Radio Corp., Hall Bldg.
—Nielson Co., P. O. Box 1323
—Radio Air Corp., 1311 Terminal Tower

—Oscar Mechoso, Independencia 56
—Jaime Nadal, Calle "B." Maso alta 71
—Interstate Brdcastg. Corp., 405 - 25th St.
—Tulsa Brdcastg. Co., National Bank Bldg.
—Ministerio de Fomento
—U. S. Brdcastg. Corp., 427 Fulton St.
—Brooklyn Brdcastg. Corp., 552-54 Atlantic
—Brooklyn Daily Eagle
—540 N. Meridian St.
—Voice of Brooklyn, 105 - 2nd Ave., N. Y. C.
—Paramount Brdcastg. Co., 4 & 5 Court Sq.

—Gaspesian Radio Brdcastg. Co.
—United Church of Canada, Hemlock & 12th
—Sprott-Shaw Co., 1604 Bekins Bldg.
—Plains Radio Brdcastg. Co.
—Bay State Brdcastg. Co., 21 Brookline Ave.
—James E. Davidson, Hotel Wenonah
—Daily Telegraph, Bland St.
—Rockford Brdcasters, Inc., 109 S. Water
—Mont. Brdcastg. Co., Jefferson Davis Hotel

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1420 kcys. (211.1)

CKGB	ak	100	F	Timmins, Ont.
CMCO	z	250		Havana, Cuba.
KABC	ak	100	(.25)	San Antonio, Texas
KABR	ak	100		Aberdeen, S. Dak.
KALB	z	100	D	Alexandria, La.
KBPS	aj	100	4	Portland, Ore.
KCMC	ak	100		Texarkana, Ark.
KEUB	z	100	P	Price, Utah.
KFIZ	ak	100		Fond du Lac, Wis.
KGFF	ak	100	(.25)	Shawnee, Okla.
KGGC	ak	100		San Francisco, Cal.
KGIW	ak	100	1	Alamosa, Colo.
KHBC	ak	100	XZ	Hilo, T. H.
KIDW	ak	100	1	Lamar, Colo.
KIUN	ak	100		Pecos, Texas
KNET	z	100	D	Palestine, Texas
KORE	ae	100		Eugene, Ore.
KRCL	ak	100		Lewiston, Idaho
KRLH	z	100	D	Midland, Tex.
KUMA	ak	100		Yuma, Ariz.
KWBG	ak	100		Hutchinson, Kans.
KXL	ak	100	4(.25)	Portland, Ore.
WACO	ak	100	C	Waco, Texas
WAGM	ae	100		Presque Isle, Maine
WAZL	ak	100	2	Hazleton, Pa.
WCBS	ak	100		Springfield, Ill.
WCHV	ak	100	3(.25)	Charlottesville, Va.
WEED	ak	100	3	Rocky Mount, N. C.
WEHS	ak	100	a	Cicero, Ill.
WELL	ak	100		Battle Creek, Mich.
WGFC	ak	100		Albany, Ga.
WHDL	ak	100	D	Olean, N. Y.
WHFC	ae	100	a	Cicero, Ill.
WILM	aj	100	2	Wilmington, Del.
WJBO	ak	100		Baton Rouge, La.
WJBR	z	100	P	Gastonia, N. C.
WJMS	ak	100		Ironwood, Mich.
WKBI	ak	100	a	Cicero, Ill.
WLAP	ak	100	(.25)	Lexington, Ky.
WLBF	ak	100		Kansas City, Kan.
WLEU	ak	100	(.25)	Erie, Pa.
WMAS	ak	100	C(.25)	Springfield, Mass.
WMBC	ae	100	(.25)	Detroit, Mich.
WMBH	ak	100	(.25)	Joplin, Mo.
WMFJ	ak	100		Daytona Beach, Fla.
WMSD	ak	100		Sheffield, Ala.
WPAD	ak	100	(.25)	Paducah, Ky.
WPAR	ak	100		Parkersburg, W. Va.
WPRP	z	100	P(.25)	Ponce, P. R.
XEAX	z	7		Guanajuato, Gto.
XEFB	ak	100		Monterrey, N. L.

—R. H. Thompson, Press Bldg.
 —Calle Vista Alegre 90, Vibora
 —Alamo Brdcstg. Co., Texas Theater Bldg.
 —Aberdeen Brdcstg. Co.
 —Alexandria Brdcstg. Co.
 —Benson School, 546 N. E. 12th Ave.
 —No. Mississippi Brdcstg. Co., Box 865
 —Eastern Utah Brdcstg. Co.
 —Reporter Prtg. Co., 18 W. First St.
 —KGFF, Inc., 9th and Bell Sts.
 —Golden Gate Brdcstg. Co., 230 Eddy St.
 —Leonard E. Wilson, 326 N. Commercial
 —Honolulu Brdcstg. Co.
 —Lamar Brdcstg. Co., Box 688
 —J. H. Hawkins and B. H. Tubbs
 —Palestine Brdcstg. Association
 —Eugene Brdcstg. Sta., 733 Willamette St.
 —H. E. Studebaker, Lewis-Clarke Hotel
 —Clarence Scharbaur
 —Dr. A. H. Schermann, Box 267
 —W. N. Greenwald
 —KXL Brdcsters., Multnomah Hotel
 —Cent. Texas Brdcstg. Co., Amicable Bldg.
 —Aroostook Brdcstg. Corp., Main St.
 —Hazleton Brdcstg. Service, Inc.
 —WCBS, Inc., 208 1/2 S. 5th St.
 —Community Brdcstg. Corp., Box 221
 —Wm. Avera Wynne, Box 221
 —WEHS, Inc., 6138 Cermak Road
 —Enquirer News, 38 W. State St.
 —Americus Brdcstg. Corp., Rylander Theater
 —Tupper Lake Brdcstg. Co., Exchange Bank
 —WHFC, Inc., 6138 Cermak Road
 —Delaware Brdcstg. Corp., 920 King St.
 —Baton Rouge Brdcstg. Co., 334 Florida St.
 —J. B. Roberts
 —WJMS, Inc., St. James Hotel
 —WKBI, Inc., 6138 Cermak Road
 —American Brdcstg. Corp., Main & Esplanade
 —WLBF Co., 901 N. 8th St.
 —Leo J. Omelian, Commerce Bldg.
 —WMAS, Inc., 70 Chestnut St.
 —Mich. Brdcstg. Co., 7310 Woodward Ave.
 —Joplin Brdcstg. Co., 1334 Roosevelt St.
 —W. W. Esch, 126 1/2 Magnolia Ave.
 —Muscle Shoals Brdcstg. Corp., Box 486
 —Paducah Brdcstg. Co., 2201 Broadway
 —Chancellor Hotel
 —Julio M. Conesa
 —Antonio Zavala, Paseo de la Presa 85
 —Jesus Quintanilla, Box 317

1430 kcys. (209.7)

CMJP	ak	75		Camaguey, Cuba
KECA	ah	1000	(5) B	Los Angeles, Calif.
KGNF	ak	1000	D	North Platte, Neb.
KSO	ak	500	B (1)	Des Moines, Iowa
WBNS	ae	500	C (1)	Columbus, Ohio
WHEC	ae	500	C (1)	Rochester, N. Y.
WHP	ak	500	C (1)	Harrisburg, Pa.
WNBR	ae	500	(1)	Memphis, Tenn.
WOKO	aj	500	C (1)	Albany, N. Y.

—Cesar Canall, Gallejas No. 28
 —E. C. Anthony, Inc., 1000 S. Hope St.
 —Great Plains Brdcstg. Co., W. 12th St.
 —Iowa Brdcstg. Co., 715 Locust St.
 —WBNS, Inc., 33 N. High St.
 —WHEC, Inc., 40 Franklin St.
 —WHP, Inc., 216 Locust St.
 —Memphis Brdcstg. Co., Hotel DeVoy
 —WOKO, Inc., Hotel Ten Eyck

1440 kcys. (208.2)

CMOA	z	150		Havana, Cuba
HP50	z	25		Colon, Panama
KDFN	ak	500		Casper, Wyo.
KLS	ag	250	D	Oakland, Calif.
KXYZ	ak	1000		Houston, Texas
TIFS	z	7.5	(1441)	Cartago, C. R.
WBIG	ae	500	C (1)	Greensboro, N. C.
WCBA	aj	500	a	Allentown, Pa.
WMBD	ak	500	C (1)	Peoria, Ill.

—Juan Fernandez Duran, Aguilar 126, altos
 —Donald L. Hatthaway, Box 930
 —Warner Bros., 2201 Telegraph Ave.
 —Harris County Brdcstg. Co., Gulf Bldg.
 —N. C. Brdcstg. Co., The O. Henry Hotel
 —B. B. Musselman, 39-41 Tenth St.
 —Peoria Brdcstg. Co., 11 N. Madison

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES 177

WSAN aj 500 a Allentown, Pa.
XEFI ae 250 Chihuahua, Chih.

1450 kcys. (206.8)

CFCT ae 75 Victoria, B. C.
CHGS ae 50 F Summerside, P.E.I.
KTEM ak 500 Eureka, Calif.
KTBS ak 1000 N Silverport, La.
WGAR ak 500 B (1) Cleveland, Ohio
WHOM ae 250 Jersey City, N. J.
WSAR ae 1000 Fall River, Mass.
WTFI ak 500 Athens, Ga.

1460 kcys. (205.4)

CMCU z 150 Havana, Cuba.
CMKF z 50 Holguin, Cuba
KSTP ak 25000 N St. Paul, Minn.
WJSV ak 10000 C Washington, D. C.

1470 kcys. (204.0)

CMOK z 150 Havana, Cuba
KGA ak 5000 B Spokane, Wash.
WLAC ak 5000 C Nashville, Tenn.

1480 kcys. (202.6)

KOMA ak 5000 C Oklahoma City, Okla
WKBW ck 5000 C Buffalo, N. Y.

1490 kcys. (201.2)

KFBK ak 5000 C Sacramento, Calif.
WKCY ae 5000 B Covington, Ky.

1500 kcys. (199.9)

CJIC ak 100 Sault Ste. Marie, Ont.
CMCX z 150 Havana, Cuba
KBIX z 100 P Muskogee, Okla.
KDB ak 100 C Santa Barbara, Cal
KGFI ak 100 (.25) Corpus Christi, Tex
KGFK ak 100 Y Moorhead, Minn.
KGKB ak 100 Tyler, Texas
KGKY ak 100 (.25) Scottsbluff, Neb.
KNEL z 100 D Brady, Texas
KNOW ak 100 Austin, Texas
KOTN ak 100 D Pine Bluff, Ark.
KPLC ak 100 Lake Charles, La.
KPQ ak 100 (.25) Wenatchee, Wash.
KRRR z 100 D Roseburg, Ore.
KTPE z 100 P El Paso, Texas
KVOE ak 100 Santa Ana, Calif.
KXO ae 100 El Centro, Calif.
WCNW ak 100 I (.25) Brooklyn, N. Y.
WDNC ae 100 C Durham, N. C.
WGAL ae 100 (.25) Lancaster, Pa.
WHBB z 100 D Selma, Ala.
WHBF ak 100 (.25) Kosciusko, Miss.
WJBK ae 100 (.25) Detroit, Mich.
WKBW ak 100 (.25) E. Dubuque, Ill.
WKBZ ak 100 Richmond, Ind.
WKBZ ak 100 (.25) Muskegon, Mich.
WKME ak 100 D Griffin, Ga.
WMBQ ae 100 I Brooklyn, N. Y.
WMEX ak 100 (.25) Boston, Mass.
WNBK ae 100 C Birmingham, N. Y.
WOPJ ae 100 Bristol, Tenn.
WRDW ak 100 Augusta, Ga.
WRGA ak 100 (.25) Rome, Ga.
WSYB ak 100 Rutland, Vt.
WTMV ak 100 East St. Louis, Ill.
WWRL ak 100 I (.25) Woodside, N. Y.
WWSW ae 100 (.25) Pittsburgh, Pa.

—WSAN, Inc., 39 Tenth St.
—Feliciano Lopez Isles, Aptdo. 157

—Victoria Brdctg. Assn., 620 View St.
—R. T. Holman, Ltd., 190 Water St.
—Redwood Brdctg. Co., Vance Hotel
—Tri-State Brdctg. System, Box 17
—WGAR Brdctg. Co., Hotel Statler
—N. J. Brdctg. Corp., 2870 Hudson Blvd.
—Academy of Music Bldg.
—Liberty Brdctg. Co., 133 E. Washington

—San Francisco 13, Vibora.
—M. J. de Gongora, Libertad esq. Arias
—Natl. Battery Brdctg. Co., St. Paul Hotel
—Old Dominion Brdctg. Co., Earle Bldg.

—Rafael Valdez, Estrella 121
—Louis Wasmer, 1023 W. Riverside Ave.
—WLAC, Inc., 2421 West End Ave.

—Natl. Radio Mfg. Co., Biltmore Hotel
—Buffalo Brdctg. Corp., Rand Bldg.

—Sacramento Bee, 7th and I Sts.
—L. B. Wilson, Inc., 6th and Madison

—Hyland & Whitby, 678 Queen St., E.
—Calle Maceo 7, Guanabacoa, Habana
—Muskogee Press
—Sta. Barbara Brdcters., Ltd., 15-17 E. Haley
—Eagle Brdctg. Co., Box 1508
—Red River Brdctg. Co., Comstock Hotel
—East Texas Brdctg. Co., 115 S. College
—Hilliard Co., 1517 1/2 Broadway
—C. L. Burns
—KUT Brdctg. Co., Norwood Bldg.
—Universal Brdctg. Corp., Hotel Pines
—Calcasieu Brdctg. Co., Majestic Hotel
—Westcoast Brdctg. Co. KPQ Bldg. 20—2nd St.
—Oregon Publishing Co.
—Dorrence D. Roderick
—The Voice of the Orange Empire, Ltd.
—F. M. Bowles, Box 140
—Arthur Paske, 864-868 Flatbush Ave.
—Durham Radio Corp., Wash'ton Duke Hotel
—WGAL, Inc., 8 W. King St.
—YMCA Building
—Attala Brdctg. Corp., Box 631
—Jas. F. Hopkins, Inc., 6559 Hamilton Ave.
—Sanders Bros., Hotel Julian
—Knox Radio Corp., Box 308
—Karl L. Ashbacher, Occidental Hotel
—Station WKEU, 906 Hill St.
—Metropolitan Brdctg. Corp., 95 Leonard
—The Northern Corp., Hotel Manager
—Howitz-Wood Co., Arlington Hotel
—Radiophone Station WOPI, 22nd and State
—Augusta Brdctg. Corp., 309 Eighth St.
—Rome Brdctg. Corp., 10 Third Ave.
—Philip Weiss Music Co., Box 328
—Mississippi Valley Brdctg. Co.
—Long Island Brdctg. Corp., 41-30—58th St.
—Walker & Downing Corp., Hotel Keystone

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1510 kcys. (198.6)

CFRC ak 100 Kingston, Ont.
CKCR ak 100 Waterloo, Ont.

—Queen's University, Fleming Hall
—Mitchell & Liddle, 24 King St., So.

1530 kcys. (196.0)

W1XBS z 1000 Waterbury, Conn.
W9XBY ak 1000 Kansas City, Mo.

—American Republican, Inc., 136 Grand St.
—106 W. 14th St.

1550 kcys. (193.4)

W2XR z 1000 Long Isl. City, N.Y.
W6XAJ ak 1000 Bakersfield, Calif.

—Scientific Brdcstg. Serv., 41 Park Row, N. Y.
—Pioneer Mercantile Co.

KEY TO SYMBOLS

As Shown in the Index by
Frequencies and Dial Numbers

Frequency is given in kilocycles; wavelengths 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.

<p>Second Column Symbols</p> <p>a Verifies reception for return postage.</p> <p>b Verifies only occasionally.</p> <p>c Does not verify.</p> <p>d Verification 10c; letter 25c.</p> <p>e Sends Ekko stamp for 10c.</p> <p>f Sends Ekko stamp for 5c.</p> <p>g Sends Ekko stamp for postage.</p> <p>h Sends own station stamp for 10c.</p> <p>i Sends own station stamp for 5c.</p> <p>j Sends own station stamp for postage.</p>	<p>k Has no stamps.</p> <p>m Verifies for 5c.</p> <p>n Weather or time only.</p> <p>z No information available.</p> <p>Fourth Column Symbols</p> <p>B National "Blue" network.</p> <p>C Columbia network.</p> <p>D Day time only.</p> <p>Dn Day time with occasional evening hours.</p> <p>F Canadian Radio Brdcstg. Commission.</p> <p>N National "Red" and "Blue"</p>	<p>networks.</p> <p>P Has construction permit only.</p> <p>R National "Red" network.</p> <p>S Sunday only.</p> <p>Sy Synchronized.</p> <p>X Has permit to increase power.</p> <p>Y Has permit to change location.</p> <p>Z Has permit to change frequency.</p> <p>a-b-c. Small letters show stations using same transmitter.</p> <p>1-2-3. Figures denote stations sharing time.</p> <p>..... No information.</p>
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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Frequency in kilocycles in second column. Night power in watts in third column. Net work affiliations in fourth column: C Columbia, R National Red, B National Blue, N National Red and Blue, F Canadian.

ALABAMA	ARIZONA	CALIFORNIA	KENTUCKY
Birmingham	Jerome	Bakersfield	KMTR 570 1000
WAPI 1140 5000 N	KCRJ 1310 100	KERN 1370 100 C	KNX 1050 50000 C
WBRC 930 1000 C	Lowell	Pine Bluff	Long Beach
WSGN 1310 100	KSNL 1200 100	KOTN 1500 100	KFOX 1250 1000
Decatur	Phoenix	Texarkana	KGER 1360 1000
WMFO 1370 100	KOY 1390 500	KCMC 1420 100	Los Angeles
Dothan	KTAR 620 1000 N	CALIFORNIA	KECA 1430 1000 B
WAGF 1370 250	Tucson	Bakersfield	KFAC 1300 1000
Gadsden	KGAR 1370 100	KERN 1370 100 C	KFI 640 50000 R
WJBY 1210 100	KVOA 1260 500	W6XAJ 1550 1000	KFSG 1120 500
Mobile	Yuma	Berkeley	KFVD 1000 250
WALA 1380 500 C	KUMA 1420 100	KRE 1370 100	KGFJ 1200 100 C
Montgomery	ARKANSAS	Beverly Hills	KHJ 900 1000 C
WSFA 1410 500 C	Bitheville	KMPK 710 500	KRKC 1120 500
Selma	KLCN 1290 100	Burbank	KTM 780 500
WHBB 1500 100	El Dorado	KELW 780 500	Modesto
Sheffield	KELD 1370 100	Chico	KTRB 740 250
WMSD 1420 100	Fayetteville	KHSL 950 250	Oakland
ALASKA	KUOA 1260 1000	Del Monte	KLS 1440 250
Anchorage	Fort Smith	KDON 1210 100	KLX 880 1000
KFOD 780 250	KFPW 1210 100	El Centro	KROW 930 1000
Juneau	Hot Springs	KXO 1500 100	Pasadena
KINY 1310 100	KTHS 1060 10000 N	Eureka	KPPC 1210 50
Ketchikan	Jonesboro	KIEM 1450 500	Redding
KGBU 900 500	KBTM 1200 100	Fresno	..... 1200 100
	Little Rock	KMJ 580 1000 C	Sacramento
	KARK 890 250	Glendale	KFBK 1490 5000 C
		KIEV 850 250	San Bernardino
		Hollywood	KFXM 1210 100
		KFWB 950 1000	San Diego
			KFSD 600 1000 B

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

KGB	1330	1000	C
San Francisco			
KFRC	610	100	C
KGCC	1420	100	C
KGO	790	7500	B
KJBS	1070	500	
KPO	680	5000	R
KSFO	560	1000	
KYA	1230	1000	N
San Jose			
KQW	1010	1000	
Santa Ana			
KVOE	1500	100	
Santa Barbara			
KDB	1500	100	C
Stockton			
KGDM	1100	1000	
KWG	1200	100	C

COLORADO

Alamosa			
KGIW	1420	100	
Colorado Springs			
KVOR	1270	1000	C
Denver			
KFEL	920	500	
KLZ	560	1000	C
KOA	830	5000	N
KPOF	880	500	
KVOD	920	500	
Durango			
KJUP	1370	100	
Grand Junction			
KFXJ	1200	100	
Greeley			
KFKA	880	500	
Lamar			
KIDW	1420	100	
Pueblo			
KGHF	1320	500	
Sterling			
KGEK	1200	100	

CONNECTICUT

Bridgeport			
WICC	600	500	C
Hartford			
WDRG	1330	100	C
WTIC	1040	5000	R
WTHT	1200	100	
New Britain			
WNBC	1380	250	
New Haven			
WELI	900	500	
Storrs			
WCAC	600	500	
Waterbury			
WATR	1190	100	
WIXBS	1530	1000	

DELAWARE

Wilmington			
WDEL	1120	250	
WILM	1420	100	

DISTRICT OF COLUMBIA

Washington			
WJSV	1400	10000	C
WMAL	630	250	B
WOL	1310	100	
WRC	950	500	R

FLORIDA

Clearwater			
WFLA	620	1000	N

Daytona Beach			
WMEJ	1420	100	
Gainesville			
WRUF	830	5000	
Jacksonville			
WJAX	900	1000	N
WMBR	1370	100	C
Lakeland			
WLAK	1310	100	
Miami			
WIOD	1300	1000	N
WQAM	560	1000	C
Orlando			
WDBO	580	1000	C
Pensacola			
WCOA	1340	500	C
St. Petersburg			
WSUN	620	1000	N
Tallahassee			
WTAL	1310	100	
Tampa			
WDAA	1220	1000	C
West Palm Beach			
WJNO	1200	100	

GEORGIA

Albany			
WGPC	1420	100	
Athens			
WTFI	1450	500	
Atlanta			
WATL	1370	100	
WGST	890	500	C
WSB	740	5000	N
Augusta			
WRDW	1500	100	
Columbus			
WRBL	1200	100	
Griffin			
WKEU	1500	100	
Macon			
WMAZ	1180	1000	
Rome			
WRGA	1500	100	
Savannah			
WTQC	1260	1000	C
Thomasville			
WPAX	1210	250	

HAWAII

Hilo			
KHBC	1420	100	
Honolulu			
KGMB	1320	1000	C
KGU	750	2500	N

IDAHO

Boise			
KIDO	1350	1000	
Idaho Falls			
KID	1320	500	
Lewiston			
KRLC	1420	100	
Nampa			
KFXD	1200	100	
Pocatello			
KSEI	900	250	
Twin Falls			
KTFI	1240	1000	

ILLINOIS

Bloomington			
WJBC	1200	100	

Carthage			
WCAZ	1070	100	
Chicago			
WAAF	920	1000	
WBBM	770	5000	C
WGEL	970	5000	B
WGRW	1210	100	
WEDC	1210	100	
WEPN	870	5000	N
WGLS	1360	500	
WGN	730	5000	
WJJD	1130	2000	
WLS	870	5000	N
WMAQ	670	5000	N
WMBI	1080	5000	
WSBC	1210	100	
Cicero			
WEHS	1420	100	
WHFC	1420	100	
WKBI	1420	100	
Decatur			
WIBL	1200	100	
East Dubuque			
WKBB	1500	100	
East St. Louis			
WTMV	1500	100	
Harrisburg			
WEBQ	1210	100	
Joliet			
WCLS	1310	100	
Peoria			
WMBD	1440	500	C
Quincy			
WTAD	900	500	
Rockford			
WROK	1410	500	
Rock Island			
WHBF	1210	100	
Springfield			
WCBS	1420	100	
WTAX	1210	100	
Tuscola			
WDZ	1020	250	
Urbana			
WILL	890	250	
Waukegan			
WCBF	1080	5000	

INDIANA

Anderson			
WHBU	1210	100	
Elkhart			
WTRC	1310	100	
Evansville			
WEOA	1370	100	
WGBF	630	500	
Fort Wayne			
WGL	1370	100	C
WOWO	1160	10000	C
Gary			
WIND	560	1000	
Hammond			
WWAE	1200	100	
Indianapolis			
WFBM	1230	1000	C
WIRE	1400	500	R
Muncie			
WLBC	1310	100	
New Albany			
.....	1370	250	
Richmond			
WKBV	1500	100	
South Bend			
WFAM	1200	100	
WBSB	1360	500	C
Terre Haute			
WBOW	1310	100	

West Lafayette			
WBAA	890	1000	
IOWA			
Ames			
WOI	640	5000	
Boone			
KFGO	1370	100	
Cedar Rapids			
WMT	600	1000	B
Council Bluffs			
KOIL	1260	1000	B
Davenport			
WOC	1370	100	C
Decorah			
KGCA	1270	100	
KWLC	1270	100	
Des Moines			
KRNT	1320	500	C
KSO	1430	500	B
WHO	1000	5000	R
Iowa City			
WSUI	880	500	
Marshalltown			
KFJB	1200	100	
Shenandoah			
KFNF	890	500	
KMA	930	1000	
Sioux City			
KSCJ	1330	1000	C

KANSAS

Abilene			
KFBI	1050	5000	
Coffeyville			
KGFF	1010	1000	
Dodge City			
KGNO	1340	250	
Garden City			
KIUL	1210	100	
Hutchinson			
KWBG	1420	100	
Kansas City			
WLBK	1420	100	
Lawrence			
KFKU	1220	1000	
WREN	1220	100	B
Manhattan			
KSAC	580	500	
Topeka			
WIBW	580	1000	C
Wichita			
KFH	1390	1000	C

KENTUCKY

Ashland			
WCMJ	1310	100	
Covington			
WKY	1490	5000	B
Lexington			
WLAP	1420	100	
Louisville			
WAVE	940	1000	N
WHAS	820	5000	C
Paducah			
WPAD	1420	100	

LOUISIANA

Alexandria			
KALB	1420	100	
Baton Rouge			
WFBO	1420	100	
Lafayette			
KVOL	1310	100	

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Lake Charles KPLC 1500	100
Monroe KMLB 1200	100
New Orleans WBNO 1200	100
WDSU 1250	1000
WJBW 1200	100
WSMB 1320	500 N
WWL 850	10000 C
Shreveport KRMD 1310	100
KTBS 1450	1000 N
KWKH 1100	1000 C

MAINE

Augusta WRDO 1370	100
Bangor WABI 1200	100
WLBZ 620	500 C
Portland WCSH 940	1000 R
Presque Isle WAGM 1420	100

MARYLAND

Baltimore WBAL 760	2500 B
WBAL 1060	10000 B
WCAO 600	500 C
WCBM 1370	100
WBFR 1270	500 R
Cumberland WTBO 800	250
Frederick WFMD 900	500
Hagerstown WJEJ 1210	100

MASSACHUSETTS

Boston WAAB 1410	500 C
WBZ 990	50000 B
WCOP 1120	500
WEEL 590	1000 R
WHDH 830	1000
WMEX 1500	100
WNAC 1230	1000 C
Fall River WSAR 1450	1000
Lowell WLLH 1370	100
Needham WORLD 920	500
New Bedford WNBH 1310	100
Springfield WBZA 990	1000 B
WMAZ 1420	100 C
WSPR 1140	500
Worcester WORC 1280	500 C
WTAG 580	500 R

MICHIGAN

Battle Creek WELL 1420	100
Bay City WBCM 1410	500
Calumet WHDF 1370	100
Detroit WJBK 1500	100
WJR 750	50000 C

WMBC 1420	100
WWJ 920	1000 R
WXYZ 1240	1000 B
East Lansing WKAR 850	1000
Flint WFDF 1310	100
Grand Rapids WASH 1270	500 N
WOOD 1270	500 N
Ironwood WJMS 1420	100
Jackson WIBM 1370	100
Kalamazoo WKZO 590	1000
Lansing WJIM 1210	100
Lapeer WMPC 1200	100
Marquette WBEQ 1310	100
Muskegon WKBZ 1500	100
Royal Oak WEXL 1310	50

MINNESOTA

Fergus Falls KGDE 1200	100
Hibbing WMFG 1210	100
Minneapolis WCCO 810	50000 C
WDGY 1180	1000
WLB 1250	1000
WTCN 1250	1000
Moorhead KGFK 1500	100
Northfield WCAL 1250	1000
Rochester KROC 1310	100
St. Paul KSTP 1460	25000 N
1370	100
Virginia WHLB 1370	100

MISSISSIPPI

Clarksdale WMFN 1210	100
Gulfport WGCM 1210	100
Hattiesburg WPFB 1370	100
Jackson WJDX 1270	1000 N
Kosciusko WHEF 1500	100
Laurel WAML 1310	100
Meridian WCOC 880	500
Vicksburg WQBC 1360	1000

MISSOURI

Cape Girardeau KFVS 1210	100
Columbia KFRU 630	500
Jefferson City WOS 630	500
Joplin WMBH 1420	100

Kansas City KMBC 950	1000 C
KWKC 1370	100
WDAF 610	1000 R
WHB 860	1000
W9XBY 1530	1000
St. Joseph KFEQ 680	2500
St. Louis KFUO 550	500
KMOX 1090	50000 C
KSD 550	1000 R
KWK 1350	1000 B
WEW 760	1000
WIL 1200	100
Springfield KGBX 1230	500
KWTO 560	5000

MONTANA

Billings KGHL 780	1000 N
Butte KGRJ 1340	1000 N
Great Falls KFBB 1280	1000
Kallispiell KGEZ 1310	100
Missoula KGVQ 1260	1000
Wolf Point KGCX 1310	100

NEBRASKA

Clay Center KMMJ 740	1000
Kearney KGFV 1310	100
Lincoln KFAB 770	10000 C
KFOR 1210	100 C
Norfolk WJAG 1060	1000
North Platte KGNF 1430	1000
Omaha WAAW 660	500 R
WOW 590	5000 R
Scottsbluff KPKY 1500	100
York KGBZ 930	1000

NEVADA

Reno KOH 1380	500 C
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NEW HAMPSHIRE

Laconia WLNH 1310	100
Manchester WFEA 1340	500 C
Portsmouth WHEB 740	250

NEW JERSEY

Asbury Park WCAP 1280	500
Atlantic City WPG 1100	5000 C
Camden WCAM 1280	500
Jersey City WAAT 940	500

WHOM 1450	250
Newark WHBI 1250	1000
WNEW 1250	1000
WOR 710	50000
Red Bank WBRB 1210	100
Trenton WTNJ 1280	500
Zarephath WAWZ 1350	500

NEW MEXICO

Albuquerque KGGM 1230	250
KOB 1180	10000
Clovis KICA 1370	100
Roswell KGLF 1370	100
Santa Fe KIUF 1310	100

NEW YORK

Albany WABY 1370	100
WOKO 1430	500 C
Auburn WMBO 1310	100
Binghamton WNBK 1500	100
Brooklyn WARD 1400	500
WBBC 1400	500
WBBR 1300	1000
WCWV 1500	100
WEGL 1400	500
WLTH 1400	500
WMBQ 1500	100
WVFW 1400	500
Buffalo WBEN 900	1000 R
WEBR 1310	100
WGR 550	1000 C
WKBW 1480	5000 C
WWSV 1370	50
WBNY 1370	100
Canton WCAD 1220	500
Chester WGNV 1210	100
Elmira WESG 850	1000 C
Freeport WGBB 1210	100
Jamestown WOCL 1210	50
Long Island City W2XR 1550	1000
New York WABC 860	50000 C
WBX 1350	250
WBOQ 860	50000
WEAF 660	50000 R
WEVD 1300	1000
WFAB 1300	1000
WHN 1010	1000
WINS 1180	1000
WJZ 760	50000 B
WLWL 1100	5000
WMCA 570	500
WNYC 810	1000
WOV 1130	1000
Olean WHDL 1420	100
Plattsburg WMFF 1310	250

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Rochester WHAM 1150 50000 B WHBC 1430 500 C WSAY 1210 100 Saranac Lake WNBZ 1290 100 Schenectady WGY 790 50000 R Syracuse WFBL 1360 1000 C WSYR 570 250 B Troy WHAZ 1300 500 Utica WIBX 1200 100 C White Plains WFAS 1210 100 Woodside WWRL 1500 100	WBNS 1430 500 C WCOL 1210 100 WOSU 570 750 Dayton WHIO 1260 1000 R WSMK 1380 200 C Portsmouth WPA Y 1370 100 Toledo WSPD 1340 1000 C Youngstown WKBN 570 500 C Zanesville WALR 1210 100	Erie WLEU 1420 100 Glenside WIBG 970 100 Greensburg WHJB 620 250 Grove City WSAJ 1310 100 Harrisburg WHP 1430 500 C WKBO 1200 100 Hazleton WAZL 1420 100 Johnstown WJAC 1310 100 Lancaster WGAL 1500 100 Philadelphia K Y W 1020 10000 R WCAU 1170 50000 C WDAS 1370 100 WFIL 560 1000 B WHAT 1310 100 WIP 610 1000 WPEN 920 250 WRAX 920 250 WTEL 1310 100 Pittsburgh KDKA 980 50000 B KQV 1380 500 WCAE 1220 1000 R WJAS 1290 1000 C WWSW 1500 100 Reading WEU 830 1000 WRAW 1310 100 Scranton WGBI 880 500 WQAN 880 250 Sunbury WKOK 1210 100 Wilkes-Barre WBAX 1210 100 WBRE 1310 100 Williamsport WRAC 1370 100 York WORK 1320 1000	SOUTH DAKOTA
NORTH CAROLINA	OKLAHOMA		Aberdeen KABR 1420 100 Brookings KFYD 780 1000 Huron KGDY 1340 250 Pierre KGFY 630 200 Rapid City WCAT 1200 100 Sioux Falls KSOO 1110 2500 Vermillion KUSD 890 500 Watertown KWTN 1210 100 Yankton WNAX 570 1000 C
Asheville WUNC 570 1000 N Charlotte WBT 1080 50000 C WSOC 1210 100 N Durham WDNC 1500 100 C Gastonia WJBR 1420 100 Greensboro WBIG 1440 500 C High Point WMER 1200 100 Raleigh WPTF 680 5000 N Rocky Mount WEED 1420 100 Wilmington WMFD 1370 100 Winston-Salem WSJS 1310 100 C	KADA 1210 100 Ardmore KVSO 1200 100 Elk City KASA 1210 100 Enid KCRC 1360 250 Muskogee KBIX 1500 100 Norman WNAD 1010 1000 Oklahoma KFXR 1310 100 KGFY 1370 100 KOMA 1480 5000 C WKY 900 1000 N Ponca City WBBZ 1200 100 Shawnee KGFY 1420 100 Tulsa KTUL 1400 500 C KVOO 1140 25000 N		TENNESSEE
NORTH DAKOTA	OREGON		Bristol WOPI 1500 100 Chattanooga WDOO 1280 1000 C Jackson WTJS 1310 100 Knoxville WNOX 1010 1000 C WROL 1310 100 Memphis WHBQ 1370 100 WMC 780 1000 N WNBK 1430 500 WREC 600 1000 C Nashville WLAC 1470 5000 C WSM 650 50000 N Springfield WSIX 1210 100
Bismarck KFYR 550 1000 N Devils Lake KDLR 1210 100 Fargo WDAY 940 1000 N Grand Forks KFJM 1370 100 Mandan KCCU 1240 250 Minot KLPM 1240 250	Astoria KAST 1370 100 Corvallis KOAC 550 1000 Eugene KORE 1420 100 Klamath Falls KFJI 1210 100 Marshfield KOOS 1390 250 Medford KMED 1310 100 Portland KALE 1300 500 C KBPS 1420 100 KEX 1180 5000 N KFJR 1300 500 KGW 620 1000 R KOIN 940 1000 C KWJJ 1040 500 KXL 1420 100 Roseburg KRNR 1500 100 Salem KSLM 1370 100		TEXAS
OHIO	PENNSYLVANIA		Amarillo KGNC 1410 1000 Austin KNOW 1500 100 Beaumont KFDM 560 500 Brady KNEL 1500 100 College Station WTAW 1120 500 Corpus Christi KCFI 1500 100 Dallas KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500 Dublin KFPL 1310 100 El Paso KTSP 1420 100 KTSM 1310 100 WDAH 1310 100 Fort Worth KRIZ 1370 100 KTAT 1240 1000 WBAP 800 50000 N Galveston KLUF 1370 100 Houston KPRC 920 1000 N KTRH 1290 1000 C KXYZ 1440 1000 Longview KFRO 1370 100
Akron WADC 1320 1000 C WJW 1210 100 Canton WHBC 1200 100 Cincinnati WCPO 1200 100 WKRC 550 1000 C WLW 700 50000 N WSAI 1330 1000 R Cleveland WGAR 1450 500 B WHK 1390 1000 C WJAY 610 500 WTAM 1070 50000 R Columbus WAU 640 500	Allentown WGBA 1440 500 WSAN 1440 500 Altoona WFBG 1310 100 Easton WEST 1200 100	PUERTO RICO	RHODE ISLAND
		Ponce WPRP 1420 100 San Juan WKAQ 1240 1000 WNEL 1290 1000	Newport WNRI 1200 100 Providence WEAN 780 500 C WJAR 890 500 R WPRO 630 250
		SOUTH CAROLINA	
		Anderson WAIM 1200 100 Charleston WCSC 1360 500 N Columbia WIS 560 1000 N Greenville WFBC 1300 1000 N Spartanburg WSPA 920 1000	

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Lubbock KFYO 1310 100	Bellingham KVOS 1200 100	WYOMING	Yarmouth CJLS 1310 100
Midland KRLH 1420 100	Everett KRKO 1370 50	Casper KDFN 1440 500	ONTARIO
Palestine KNET 1420 100	Olympia KGY 1210 100	Sheridan KWYO 1370 100	Brantford CKPC 930 100 F
Pampa KPDN 1310 100	Pullman KWSC 1220 1000	CANADA	Chatham CFCO 630 100 F
Pecos KIUN 1420 100	Seattle KIRO 710 500	ALBERTA	Cobalt CKMC 1210 50
Port Arthur KPAC 1260 500	KJR 970 5000 B	Calgary	Fort William CKPR 930 100 F
San Angelo KGKL 1370 100	KOL 1270 1000 C	CFAC 930 100 F	Hamilton CHML 1010 100 F
San Antonio KABC 1420 100	KOMO 920 1000 R	CFCN 1030 10000	CKOC 1120 500 F
KMAC 1370 100	KRSC 1120 100	CJ CJ 690 100 F	Kingston CRFC 1510 100
KONO 1370 100	KTW 1220 1000	Edmonton	Kirkland Lake CJKL 1310 100 F
KTSA 550 1000 C	KVL 1370 100	CFRN 1260 100 F	London CFPL 730 100 F
WOAI 1190 50000 N	KXA 760 250	CJCA 730 1000 F	North Bay CFCH 930 100 F
Tyler KGKB 1500 100	Spokane	CKUA 580 500	Ottawa CKCO 1010 100 F
Waco WACO 1420 100 C	KFIO 1120 100	Lethbridge CJOC 950 100 F	CRCO 880 1000 F
Weslaco KRGV 1260 500	KFPY 890 1000 C	BRITISH COLUMBIA	Prescott CFCL 930 100
Wichita Falls KGKO 570 250 C	KGA 1470 5000 B	Chilliwack CHWK 780 100 F	St. Catharines CKTB 1200 100 F
UTAH	KHQ 590 1000 R	CHWV 780 100 F	Sault Ste. Marie CJIC 1500 100
Ogden KLO 1400 500 N	Tacoma	Kamloops CFJC 880 100 F	Stratford CJCS 1210 50
Price KEUB 1420 100	KMO 1330 250	Kelowna CKOV 630 100 F	Sudbury CKSO 780 1000 F
Salt Lake City KDYL 1290 1000 N	KVI 570 1000 C	Prince Rupert CFPR 580 50	Timmins CKGB 1420 100 F
KSL 1130 50000 C	Walla Walla KUJ 1370 100	Trail CJAT 910 1000 F	Toronto CFRB 690 10000 C
VERMONT	Wematchee KPO 1500 100	Vancouver	CRCL 580 100 F
Burlington WCAX 1200 100	Yakima KIT 1310 100	CKCD 1010 100	CRCT 840 5000 N
Rutland WSYB 1500 100	WEST VIRGINIA	CKFC 1410 50	Waterloo CKCR 1510 100
St. Albans WQDM 1370 100	Bluefield WHIS 1410 250	CKMO 1410 100 F	Windsor CKLW 1030 5000
Springfield WNBX 1260 100	Charleston WCHS 580 500	CKWX 1010 100 F	Wingham CKNX 1200 50
Waterbury WDEV 550 500	Fairmont WMMN 890 500 C	CRCV 1100 500 F	PRINCE EDWARD ISLAND
VIRGINIA	Huntington WSAZ 1190 1000	Victoria CFCT 1450 75	Charlottetown CFCY 630 1000 F
Arlington NAA 690 1000	Parkersburg WPAR 1420 100	MANITOBA	CHCK 1310 50
Charlottesville WCHV 1420 100	Wheeling WWVA 1160 5000 C	Brandon CKX 1120 100 F	Summerside CHGS 1450 50 F
Danville WBTM 1370 100	WISCONSIN	Winnipeg CJRC 630 500 F	QUEBEC
Harrisonburg WSVA 550 500	Ford du Lac KFIZ 1420 100	CKY 960 15000 F	Chicoutimi CRCS 950 100 F
Lynchburg WLVA 1200 100	Green Bay WBHY 1200 100	NEW BRUNSWICK	Hull CKCH 1210 100 F
Newport News WGHH 1310 100	WTAQ 1330 1000	Fredericton CFNB 550 500 F	Montmagny VE9EK 1185 10
Norfolk WTAR 780 500 N	Janesville WCLO 1200 100	Moncton CKCW 1370 100 F	Montreal
Petersburg WPHR 880 500	LaCrosse WKBH 1380 1000	St. John CHSJ 1120 500 F	CFCF 600 400 N
Richmond WBBL 1210 100	Madison	N. W. TERRITORY	CHLP 1120 100 F
WBMB 1210 100 C	WHA 940 2500	Aklavik CJCU 1210 50	CKAC 730 5000 C
WRVA 1110 5000 N	WIBA 1280 1000 N	NOVA SCOTIA	CRCM 910 5000 F
Roanoke WDBJ 930 1000 C	Manitowoc WOMT 1210 100	Glace Bay VAS 685 2000	New Carlisle CHNC 1410 500 F
WASHINGTON	Milwaukee	Halifax CHNS 930 1000 F	Quebec
Aberdeen KXRO 1310 100	WEMP 1310 100	Sydney CJCB 1240 1000 F	CHRC 580 100 F
	WISN 1120 250 C	Wolfville CKIC 1010 50	CKCV 1310 100 F
	WTMJ 620 1000 N		CRCK 1050 1000 F

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>SASKATCHEWAN</p> <p>Moose Jaw CHAB 1200 100 F CJRM 540 1000 F</p> <p>Prince Albert CKBI 1210 100 F</p> <p>Regina CHWC 1010 500 F CKCK 1010 500 F</p> <p>Saskatoon CFQC 840 1000 F</p> <p>Yorkton CJGX 580 100 F</p>	<p>XFC 810 350</p> <p style="text-align: center;">CHIHUAHUA</p> <p>Chihuahua XEFI 1440 250</p> <p>Hidalgo XEAT 1210 50</p> <p>Juarez XEFV 1210 100 XEF 980 100 XEJ 1020 1000</p> <p style="text-align: center;">COAHUILA</p> <p>Piedras Negras XELO 1110 10000 XEPN 590 50000</p> <p>Saltillo XEAS 1160 100 XEOX 640 500</p> <p>Torreón XETB 1310 125</p> <p>Villa Acuna XERA 840 250000</p> <p style="text-align: center;">D. F.</p> <p>Mexico City XEAI 1240 100 XEB 1030 10000 XECW 1310 10 XEFA 1180 500 XEFO 940 5000 XEFZ 1370 100 XEK 990 100 XEL 1100 250 XEMX 1280 12 XEN 710 1000 XEW 890 50000 XEWZ 1150 100 XEYZ 780 10000 XFX 610 1000</p> <p style="text-align: center;">DURANGO</p> <p>Durango XEE 1210 50</p> <p style="text-align: center;">GUANAJUATO</p> <p>Guanajuato XEAZ 1420 7</p> <p>Leon XEKL 1240 500</p> <p style="text-align: center;">JALISCO</p> <p>Guadalajara XEA 1060 500 XED 1155 2500</p> <p style="text-align: center;">LOWER CALIFORNIA</p> <p>Coronado Island XEMZ 820</p> <p>Ensenada XEG 1270 200</p> <p>Mexicali XEAA 920 200 XEAO 560 250</p> <p>Rosarito XEAO 1090 1000</p> <p>Tijuana XEAC 1240 250 XEC 1160 30 XEFL 1150 250 XEMO 860 5000</p>	<p>XEOK 760 250 XESL 1160</p> <p style="text-align: center;">MICHOACAN</p> <p>Morelia XEI 1370 125</p> <p style="text-align: center;">NUEVO LEON</p> <p>Monterrey XEFB 1420 100 XEFJ 1230 100 XEII 1150 250 XET 690 500 XEX 1310 125</p> <p style="text-align: center;">PUEBLA</p> <p>Puebla XETH 1210 100</p> <p style="text-align: center;">SAN LUIS POTOSI</p> <p>San Luis Potosi XEZZ 1370 100</p> <p style="text-align: center;">SONORA</p> <p>Hermosillo XEBH 930 500</p> <p>Nogales XEAF 990 500</p> <p style="text-align: center;">TAMAULIPAS</p> <p>Matamoros XEAM 750 7.5</p> <p>Nuevo Laredo XEBK 1000 100 XEFE 850 250 XENT 910 150000</p> <p>Reynosa XEAW 960 50000</p> <p>Tampico XEFW 1310 250 XES 990 250</p> <p style="text-align: center;">VERACRUZ</p> <p>Cordoba XEAG 1310 10</p> <p>Jalapa XFB 1270 250 XFD 1340 350</p> <p>Veracruz XETF 1220 12 XEU 1010 250</p> <p style="text-align: center;">YUCATAN</p> <p>Merida XEFC 560 100 XEY 1000 10 XEZ 630 500</p> <p style="text-align: center;">WEST INDIES</p> <p style="text-align: center;">CUBA</p> <p>Caibarien CMHD 1270 250</p> <p>Camaguey CMJA 1010 50 CMJC 1390 150 CMJE 1220 50 CMJF 1150 200</p>	<p>CMJK 780 250 CMJL 1340 100 CMJP 1430 75</p> <p style="text-align: center;">Cardenas</p> <p>CMGE 1370 150</p> <p style="text-align: center;">Ciego de Avila</p> <p>CMJH 1360 100 CMJI 1130 50 CMJO 1180 50</p> <p style="text-align: center;">Cienfuegos</p> <p>CMHJ 1160 100 CMHW 820 100 CMHX 760 200</p> <p style="text-align: center;">Cruces</p> <p>CMHK 1330 250</p> <p style="text-align: center;">Havana</p> <p>CMBC 640 150 CMBD 1170 150 CMBG 1140 200 CMBN 850 150 CMBS 770 150 CMBX 1060 200 CMBY 970 150 CMBZ 1000 150 CMCA 1350 250 CMCB 1230 150 CMCD 950 250 CMCF 810 600 CMCG 680 150 CMCJ 1110 500 CMCO 1200 150 CMCQ 1420 250 CMCR 1380 150 CMCU 1460 150 CMCW 750 150 CMCX 1500 150 CMCY 1030 1000 CMK 730 3000 CMOA 1440 150 CMOK 1470 150 CMOX 1320 200 CMQ 880 500 CMW 600 1400 CMX 920 1000</p> <p style="text-align: center;">Holguin</p> <p>CMKF 1460 250</p> <p style="text-align: center;">Manzanillo</p> <p>CMKM 1120 200</p> <p style="text-align: center;">Matanzas</p> <p>CMGQ 1400 100 CMGF 1120 150 CMGH 790 250</p> <p style="text-align: center;">Sagua la Grande</p> <p>CMHA 1070 50</p> <p style="text-align: center;">Sancti Spiritus</p> <p>CMHB 1240 50</p> <p style="text-align: center;">Santa Clara</p> <p>CMHI 1210 150</p> <p style="text-align: center;">Santiago</p> <p>CMKC 1250 150 CMKD 1050 250 CMKR 1400 100 CMKX 1190 75</p> <p style="text-align: center;">DOMINICAN REPUBLIC</p> <p style="text-align: center;">San Pedro de Macoris</p> <p>HHH 1395 15</p> <p style="text-align: center;">Trujillo</p> <p>HHJ 1195 15 HHX 800 700 HHZ 1370 10</p> <p style="text-align: center;">HAITI</p> <p style="text-align: center;">Port-au-Prince</p> <p>HHK 920 1000</p>
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NORTH AMERICAN B. C. STATIONS BY CALLS

CFAC 930 Calgary, Alta.	100	CJLS 1310 Yarmouth, N. S.	100	CMBS 770 Havana, Cuba	150
CFCF 600 Montreal, Que.	400	CJOC 950 Lethbridge, Alta.	100	CMBX 1060 Havana, Cuba	200
CFCH 930 North Bay, Ont.	100	CJOR 600 Vancouver, B. C.	500	CMBY 970 Havana, Cuba	150
CFCN 1030 Calgary, Alta.	10000	CJRC 630 Winnipeg, Man.	500	CMBZ 1000 Havana, Cuba	150
CFCO 630 Chatham, Ont.	100	CJRM 540 Moose Jaw, Sask.	1000	CMCA 1350 Havana, Cuba	250
CFCT 1450 Victoria, B. C.	75	CKAC 730 Montreal, Que.	5000	CMCB 1230 Havana, Cuba	150
CFCY 630 Charlottetown, P.E.I.	1000	CKBI 1210 Prince Albert, Sask.	100	CMCD 950 Havana, Cuba	250
CFJC 880 Kamloops, B. C.	100	CKCD 1010 Vancouver, B. C.	100	CMCF 810 Havana, Cuba	600
CFLC 930 Prescott, Ont.	100	CKCH 1210 Hull, Que.	100	CMCG 680 Havana, Cuba	150
CFNB 550 Fredericton, N. B.	500	CKCK 1010 Regina, Sask.	500	CMCJ 1110 Havana, Cuba	500
CFPL 730 London, Ont.	100	CKCL 580 Toronto, Ont.	100	CMCO 1200 Havana, Cuba	150
CFPR 580 Prince Rupert B. C.	50	CKCO 1010 Ottawa, Ont.	100	CMCQ 1420 Havana, Cuba	250
CFQC 840 Saskatoon, Sask.	1000	CKCR 1510 Waterloo, Ont.	100	CMCR 1380 Havana, Cuba	150
CFRB 690 Toronto, Ont.	10000	CKCV 1310 Quebec, Que.	100	CMCU 1460 Havana, Cuba	150
CFRC 1510 Kingston, Ont.	100	CKCW 1370 Moncton, N. B.	100	CMCW 750 Havana, Cuba	150
CFRN 1260 Edmonton, Alta.	100	CKFC 1410 Vancouver, B. C.	50	CMCX 1500 Havana, Cuba	150
CHAB 1200 Moose Jaw, Sask.	100	CKGB 1420 Timmins, Ont.	100	CMCY 1030 Havana, Cuba	1000
CHCK 1310 Charlottetown, P.E.I.	50	CKIC 1010 Wolfville, N. S.	50	CMCG 1400 Matanzas, Cuba	100
CHGS 1450 Summerside, P.E.I.	50	CKLW 1030 Windsor, Ont.	5000	CMGE 1370 Cardenas, Cuba	150
CHLP 1120 Montreal, Que.	100	CKMC 1210 Cobalt, Ont.	50	CMGF 1120 Matanzas, Cuba	250
CHML 1010 Hamilton, Ont.	100	CKMO 1410 Vancouver, B. C.	100	CMGH 790 Matanzas, Cuba	250
CHNC 1410 New Carlisle, Que.	500	CKNX 1200 Wingham, Ont.	50	CMHA 1070 Sagua la Grande, Cu.	50
CHNS 930 Halifax, N. S.	1000	CKOC 1120 Hamilton, Ont.	500	CMHB 1240 Sancti Spiritus, Cuba	50
CHRC 580 Quebec, Que.	100	CKOV 630 Kelowna, B. C.	100	CMHD 1270 Caibarien, Cuba	250
CHSJ 1120 St. John, N. B.	500	CKPC 930 Brantford, Ont.	100	CMHI 1210 Santa Clara, Cuba	150
CHWC 1010 Regina, Sask.	500	CKPR 930 Port William, Ont.	100	CMHJ 1160 Cienfuegos, Cuba	100
CHWK 780 Chilliwack, B. C.	100	CKSO 780 Sudbury, Ont.	1000	CMHK 1330 Cruces, Cuba	250
CJAT 910 Trail, B. C.	1000	CKTB 1200 St. Catharines, Ont.	100	CMHW 820 Cienfuegos, Cuba	100
CJCA 730 Edmonton, Alta.	1000	CKUA 580 Edmonton, Alta.	500	CMHX 760 Cienfuegos, Cuba	200
CJCB 1240 Sydney, N. S.	1000	CKWX 1010 Vancouver, B. C.	100	CMJA 1010 Camaguey, Cuba	50
CJCJ 690 Calgary, Alta.	100	CKX 1120 Brandon, Man.	100	CMJC 1390 Camaguey, Cuba	150
CJCS 1210 Stratford, Ont.	50	CKY 960 Winnipeg, Man.	15000	CMJE 1220 Camaguey, Cuba	50
CJCU 1210 Aklavik, N. W. T.	50	CMBC 640 Havana, Cuba	150	CMJF 1150 Camaguey, Cuba	200
CJGX 580 Yorkton, Sask.	100	CMBD 1170 Havana, Cuba	150	CMJH 1360 Ciego de Avila, Cuba	100
CJIC 1500 S. Ste. Marie, Ont.	100	CMBG 1140 Havana, Cuba	200	CMJI 1130 Ciego de Avila, Cuba	
CJKL 1310 Kirkland Lake, Ont.	100	CMBN 850 Havana, Cuba	150	CMJK 780 Camaguey, Cuba	250

NORTH AMERICAN B. C. STATIONS BY CALLS

CMJL 1340 Camaguey, Cuba	100	KARK 890 Little Rock, Ark.	250	KFJI 1210 Klamath Falls, Ore.	100
CMJO 1180 Ciego de Avila, Cuba	50	KASA 1210 Elk City, Okla.	100	KFJM 1370 Grand Forks, N. D.	100
CMJP 1430 Camaguey, Cuba	75	KASt 1370 Astoria, Ore.	100	KFJR 1300 Portland, Ore.	500
CMK 730 Havana, Cuba	3000	KBIX 1500 Muskogee, Okla.	100	KFJZ 1370 Fort Worth, Texas	100
CMKC 1250 Santiago, Cuba	150	KBPS 1420 Portland, Ore.	100	KFKA 880 Greeley, Colo.	500
CMKD 1050 Santiago, Cuba	250	KBTM 1200 Jonesboro, Ark.	100	KFKU 1220 Lawrence, Kans.	1000
CMKF 1460 Hoiguin, Cuba	250	KCMC 1420 Shenarkana, Ark.	100	KFNf 890 Shenandoah, Iowa	500
CMKM 1120 Manzanillo, Cuba	200	KCRc 1360 Enid, Okla.	250	KFOR 1210 Lincoln, Neb.	100
CMKR 1400 Santiago, Cuba	100	KCRJ 1310 Jerome, Ariz.	100	KFOX 1250 Long Beach, Calif.	1000
CMKX 1190 Santiago, Cuba	75	KDB 1500 Santa Barbara, Calif.	100	KFPL 1310 Dublin, Texas	100
CMOA 1440 Havana, Cuba	150	KDFN 1440 Casper, Wyo.	500	KFPW 1210 Fort Smith, Ark.	100
CMOK 1470 Havana, Cuba	150	KDKA 980 Pittsburgh, Pa.	50000	KFPY 890 Spokane, Wash.	1000
CMOX 1320 Havana, Cuba	200	KDLR 1210 Devils Lake, N. D.	100	KFGD 780 Anchorage, Alaska	250
CMQ 880 Havana, Cuba	500	KDON 1210 Del Monte, Calif.	100	KFRc 610 San Francisco, Calif.	1000
CMW 600 Havana, Cuba	1400	KDYL 1290 Salt Lake City, Utah	1000	KFRo 1370 Longview, Texas	100
CMX 920 Havana, Cuba	1000	KECA 1430 Los Angeles, Calif.	1000	KFRU 630 Columbia, Mo.	500
CRCK 1050 Quebec, Que.	1000	KELD 1370 El Dorado, Ark.	100	KFSd 600 San Diego, Calif.	1000
CRcM 910 Montreal, Que.	5000	KELW 780 Burbank, Calif.	500	KFSF 1120 Los Angeles, Calif.	500
CRcO 880 Ottawa, Ont.	1000	KERN 1370 Bakersfield, Calif.	100	KFUO 550 St. Louis, Mo.	500
CRcS 950 Chicoutimi, Que.	100	KEUB 1420 Price, Utah	100	KFVD 1000 Los Angeles, Calif.	250
CRCT 840 Toronto, Ont.	5000	KEX 1180 Portland, Ore.	5000	KFV5 1210 Cape Girardeau, Mo.	100
CRcV 1100 Vancouver, B. C.	500	KFAB 770 Lincoln, Neb.	10000	KFWB 950 Hollywood, Calif.	1000
CRcW 600 Windsor, Ont.	500	KFAC 1300 Los Angeles, Calif.	1000	KFXD 1200 Nampa, Idaho	100
FQN 609 St. Pierre, Miq.	250	KFBB 1280 Great Falls, Mont.	1000	KFXJ 1200 Grand Junction, Colo.	100
HHK 920 Port-au-Princx, Haiti	1000	KFBI 1050 Abilene, Kans.	5000	KFXM 1210 San Bernardino, Calif.	100
HHH 1395 San Pedro de M., D. R.	15	KFBK 1490 Sacramento, Calif.	5000	KFXR 1310 Oklahoma City, Okla.	100
HIJ 1195 Trujillo, D. R.	15	KFDM 560 Beaumont, Texas	500	KFYO 1310 Lubbock, Texas	100
HIX 800 Trujillo, D. R.	700	KFDY 780 Brookings, S. D.	1000	KFYR 550 Bismarck, N. D.	1000
HIZ 1370 Trujillo, D. R.	10	KFEL 920 Denver, Colo.	500	KGA 1470 Spokane, Wash.	5000
HP5O 1440 Colon, Panama	25	KFEQ 680 St. Joseph, Mo.	2500	KGAR 1370 Tucson, Ariz.	100
HRN 1340 Tegucigalpa, Hond.	100	KFGQ 1370 Boone, Iowa	100	KGB 1330 San Diego, Calif.	1000
KABC 1420 San Antonio, Texas	100	KFH 1300 Wichita, Kans.	1000	KGBU 900 Ketchikan, Alaska	500
KABR 1420 Aberdeen, S. Dak.	100	KFI 640 Los Angeles, Calif.	50000	KGBX 1230 Springfield, Mo.	500
KADA 1200 Ada, Okla.	100	KFIO 1120 Spokane, Wash.	100	KGBZ 930 York, Neb.	1000
KALB 1420 Alexandria, La.	100	KFIZ 1420 Fond du Lac, Wis.	100	KGCA 1270 Decorah, Iowa	100
KALE 1300 Portland, Ore.	500	KFJB 1200 Marshalltown, Iowa	100	KGCU 1240 Mandan, N. D.	250

NORTH AMERICAN B. C. STATIONS BY CALLS

KG CX 1310	100	KH BC 1420	100	KM PC 710	500
Wolf Point, Mont.		Hilo, T. H.		Beverly Hills, Calif.	
KG DE 1200	100	KH J 900	1000	KM TR 570	1000
Fergus Falls, Minn.		Los Angeles, Calif.		Hollywood, Calif.	
KG DM 1100	1000	KH Q 590	1000	KN EL 1500	100
Stockton, Calif.		Spokane, Wash.		Brady, Texas	
KG DY 1340	250	KH SL 950	250	KN ET 1420	100
Huron, S. D.		Chico, Calif.		Palestine, Texas	
KG EK 1200	100	KI CA 1370	100	KN OW 1500	100
Sterling, Colo.		Clovis, N. M.		Austin, Texas	
KG ER 1360	1000	KI D 1320	500	KN X 1050	50000
Long Beach, Calif.		Idaho Falls, Idaho		Hollywood, Calif.	
KG EZ 1310	100	KI DO 1350	1000	KO A 830	50000
Kalispell, Mont.		Boise, Idaho		Denver, Colo.	
KG FF 1420	100	KI DW 1420	100	KO AC 550	1000
Shawnee, Okla.		Lamar, Colo.		Corvallis, Ore.	
KG FG 1370	100	KI EM 1450	500	KO B 1180	10000
Oklahoma City, Okla.		Eureka, Calif.		Albuquerque, N. M.	
KG FI 1500	100	KI EV 850	250	KO H 1380	500
Corpus Christi, Texas		Glendale, Calif.		Reno, Nev.	
KG FJ 1200	100	KI NY 1310	100	KO IL 1260	1000
Los Angeles, Calif.		Juneau, Alaska		Council Bluffs, Iowa	
KG FK 1500	100	KI RO 710	500	KO IN 940	1000
Moorhead, Minn.		Seattle, Wash.		Portland, Ore.	
KG FL 1370	100	KI T 1310	100	KO L 1270	1000
Roswell, N. M.		Yakima, Wash.		Seattle, Wash.	
KG FW 1310	100	KI UJ 1310	100	KO MA 1480	5000
Kearney, Neb.		Santa Fe, N. Mex.		Oklahoma City, Okla.	
KG FX 630	200	KI UL 1210	100	KO MO 920	1000
Pierre, S. D.		Garden City, Kans.		Seattle, Wash.	
KG GC 1420	100	KI UN 1420	100	KO NO 1370	100
San Francisco, Calif.		Pecos, Texas		San Antonio, Texas	
KG GF 1010	1000	KI UP 1370	100	KO OS 1390	250
Coffeyville, Kans.		Durango, Colo.		Marshfield, Ore.	
KG GM 1230	250	KI BS 1070	500	KO RE 1420	100
Albuquerque, N. M.		San Francisco, Calif.		Eugene, Ore.	
KG HF 1320	500	KI JR 970	5000	KO TN 1500	100
Pueblo, Colo.		Seattle, Wash.		Pine Bluffs, Ark.	
KG HI 1200	100	KI CN 1290	100	KO Y 1390	500
Little Rock, Ark.		Blytheville, Ark.		Phoenix, Ariz.	
KG HL 780	1000	KI O 1400	500	KP AC 1260	500
Billings, Mont.		Ogden, Utah		Port Arthur, Texas	
KG IR 1340	1000	KI PM 1240	250	KP DN 1310	100
Butte, Mont.		Minot, N. D.		Pampa, Texas	
KG IW 1420	100	KI RA 1390	1000	KP LC 1500	100
Alamosa, Colo.		Little Rock, Ark.		Lake Charles, La.	
KG KB 1500	100	KI LS 1440	250	KP O 680	50000
Tyler, Texas		Oakland, Calif.		San Francisco, Calif.	
KG KL 1370	100	KI UF 1370	100	KP OF 880	500
San Angelo, Texas		Galveston, Texas		Denver, Colo.	
KG KO 570	250	KI LX 880	1000	KP PC 1210	50
Wichita Falls, Texas		Oakland, Calif.		Pasadena, Calif.	
KG KY 1500	100	KI LZ 560	1000	KP Q 1500	100
Scottsbluff, Neb.		Denver, Colo.		Wenatchee, Wash.	
KG MB 1320	1000	KI MA 930	1000	KP RC 920	1000
Honolulu, T. H.		Shenandoah, Iowa		Houston, Texas	
KG NC 1410	1000	KI MC 1370	100	KQ V 1380	500
Amarillo, Texas		San Antonio, Texas		Pittsburgh, Pa.	
KG NF 1430	1000	KI BC 950	1000	KQ W 1010	1000
North Platte, Neb.		Kansas City, Mo.		San Jose, Calif.	
KG NO 1340	250	KI MD 1310	100	KR E 1370	100
Dodge City, Kans.		Medford, Ore.		Berkeley, Calif.	
KG O 790	7500	KI MJ 580	1000	KR GV 1260	500
San Francisco, Calif.		Fresno, Calif.		Westaco, Texas	
KG U 750	2500	KI LB 1200	100	KR KD 1120	500
Honolulu, T. H.		Monroe, La.		Los Angeles, Calif.	
KG VO 1260	1000	KI MJ 740	1000	KR KO 1370	50
Missoula, Mont.		Clay Center, Neb.		Everett, Wash.	
KG W 620	1000	KI MO 1330	250	KR LC 1420	100
Portland, Ore.		Tacoma, Wash.		Lewiston, Idaho	
KG Y 1210	100	KI MX 1090	50000	KR LD 1040	10000
Olympia, Wash.		St. Louis, Mo.		Dallas, Texas	

NORTH AMERICAN B. C. STATIONS BY CALLS

KRLH 1420 Midland, Texas	100	KVL 1370 Seattle, Wash.	100	TIRH 930 San Jose, C. R.	50
KRMD 1310 Shreveport, La.	100	KVOA 1260 Tucson, Ariz.	500	VAS 685 Glance Bay, N. S.	2000
KRRR 1500 Roseburg, Ore.	100	KVOD 920 Denver, Colo.	500	VESEK 1185 Montmagny, Que.	10
KRNT 1320 Des Moines, Iowa	500	KVOE 1500 Santa Ana, Calif.	100	VOAC 1065 St. John's, Nfld.	40
KROC 1310 Rdchester, Minn.	100	KVOL 1310 Lafayette, La.	100	VOAS 940 St. John's, Nfld.	100
KROW 930 Oakland, Calif.	1000	KVOO 1140 Tulsa, Okla.	25000	VOGY 840 St. John's, Nfld.	400
KRSC 1120 Seattle, Wash.	100	KVOR 1270 Colorado Spgs., Colo.	1000	VONF 1195 St. John's, Nfld.	500
KSAC 590 Manhattan, Kans.	500	KVOS 1200 Bellingham, Wash.	100	VOWR 681 St. John's, Nfld.	500
KSCJ 1330 Sioux City, Iowa	1000	KVSO 1210 Ardmore, Okla.	100	WAAB 1410 Boston, Mass.	500
KSD 550 St. Louis, Mo.	1000	KWBG 1420 Hutchinson, Kans.	100	WAAF 920 Chicago, Ill.	1000
KSEI 900 Pocatello, Idaho	250	KWG 1200 Stockton, Calif.	100	WAAT 940 Jersey City, N. J.	500
KSFO 560 San Francisco, Calif.	1000	KWJJ 1040 Portland, Ore.	500	WAAW 660 Omaha, Neb.	500
KSL 1130 Salt Lake City, Utah	50000	KWK 1350 St. Louis, Mo.	1000	WABC 860 New York, N. Y.	50000
KSLM 1370 Salem, Ore.	100	KWKC 1370 Kansas City, Mo.	100	WABI 1200 Bangor, Maine	100
KSO 1430 Des Moines, Iowa	500	KWKH 1100 Shreveport, La.	10000	WABY 1370 Albany, N. Y.	100
KSOO 1110 Sioux Falls, S. D.	2500	KWLC 1270 Decorah, Iowa	100	WACO 1420 Waco, Texas	100
KSTP 1460 St. Paul, Minn.	25000	KWSC 1220 Pullman, Wash.	1000	WADC 1320 Akron, Ohio	1000
KSUN 1200 Lowell, Ariz.	100	KWTN 1210 Watertown, S. D.	100	WAGF 1370 Dothan, Ala.	250
KTAR 620 Phoenix, Ariz.	1000	KWTO 560 Springfield, Mo.	5000	WAGM 1420 Presque Isle, Me.	100
KTAT 1240 Fort Worth, Texas	1000	KWYO 1370 Sheridan, Wyo.	100	WAIM 1200 Anderson, S. C.	100
KTBS 1450 Shreveport, La.	1000	KXA 760 Seattle, Wash.	250	WAIU 640 Columbus, Ohio	500
KTEP 1500 El Paso, Texas	100	KXL 1420 Portland, Ore.	100	WALA 1380 Mobile, Ala.	500
KTFI 1240 Twin Falls, Idaho	1000	KXO 1500 El Centro, Calif.	100	WALR 1210 Zanesville, Ohio	100
KTHS 1060 Hot Springs, Ark.	10000	KXRO 1310 Aberdeen, Wash.	100	WAML 1310 Laurel, Miss.	100
KTM 780 Los Angeles, Calif.	500	KXYZ 1440 Houston, Texas	1000	WAPI 1140 Birmingham, Ala.	5000
KTRB 740 Modesto, Calif.	250	KYA 1230 San Francisco, Calif.	1000	WARD 1480 Brooklyn, N. Y.	500
KTRH 1290 Houston, Texas	1000	KYW 1020 Philadelphia, Pa.	10000	WASH 1270 Grand Rapids, Mich.	500
KTSA 550 San Antonio, Texas	1000	NAA 690 Arlington, Va.	1000	WATL 1370 Atlanta, Ga.	100
KTSM 1310 El Paso, Texas	100	RDN 680 San Salvador, E. S.	500	WATR 1190 Waterbury, Conn.	100
KTUL 1400 Tulsa, Okla.	500	TGW 1210 Guatemala, Gua.	10000	WAVE 940 Louisville, Ky.	1000
KTW 1220 Seattle, Wash.	1000	TGX 1400 Guatemala City	250	WAWZ 1350 Zarephath, N. J.	500
KUJ 1370 Walla Walla, Wash.	100	TIEP 850 San Jose, C. R.	500	WAZL 1420 Hazleton, Pa.	100
KUMA 1420 Yuma, Ariz.	100	TIFA 1050 San Jose, C. R.	75	WBAA 890 West Lafayette, Ind.	1000
KUOA 1260 Fayetteville, Ark.	1000	TIFS 1441 Cartago, C. R.	7.5	WBAL 760 Baltimore, Md.	2500
KUSD 890 Vermillion, S. D.	500	TIGA 1014 Cartago, C. R.	30	WBAL 1060 Baltimore, Md.	10000
KVI 570 Tacoma, Wash.	1000	TIGH 1000 San Jose, C. R.	500	WBAP 800 Fort, Worth, Texas	50000

NORTH AMERICAN B. C. STATIONS BY CALLS

WBAX 1210 Wilkes-Barre, Pa.	100	WCBM 1370 Baltimore, Md.	100	WEEC 1290 Superior, Wis.	1000
WBBC 1400 Brooklyn, N. Y.	500	WCBS 1420 Springfield, Ill.	100	WEEK 1210 Harrisburg, Ill.	100
WBBL 1210 Richmond, Va.	100	WCCO 810 Minneapolis, Minn.	50000	WEER 1310 Buffalo, N. Y.	100
WBBM 770 Chicago, Ill.	50000	WCFL 970 Chicago, Ill.	5000	WEDC 1210 Chicago, Ill.	100
WBRR 1300 Brooklyn, N. Y.	1000	WCHS 580 Charleston, W. Va.	500	WEED 1420 Rocky Mount, N. C.	100
WBBZ 1200 Ponca City, Okla.	100	WCHV 1420 Charlottesville, Va.	100	WEEI 590 Boston, Mass.	1000
WBCM 1410 Bay City, Mich.	500	WCKY 1490 Covington, Ky.	5000	WEUU 830 Reading, Pa.	1000
WBEN 900 Buffalo, N. Y.	1000	WCLO 1200 Janesville, Wis.	100	WGLL 1400 Brooklyn, N. Y.	500
WBEO 1310 Marquette, Mich.	100	WCLS 1310 Joliet, Ill.	100	WEHS 1420 Cicero, Ill.	100
WBIG 1440 Greensboro, N. C.	500	WCMI 1310 Ashland, Ky.	100	WELI 900 New Haven, Conn.	500
WBNO 1200 New Orleans, La.	100	WCNW 1500 Brooklyn, N. Y.	100	WELL 1420 Battle Creek, Mich.	100
WBNS 1430 Columbus, Ohio	500	WCOA 1340 Pensacola, Fla.	500	WEMP 1310 Milwaukee, Wis.	100
WBNX 1350 New York, N. Y.	250	WCOC 880 Meridian, Miss.	500	WENR 870 Chicago, Ill.	50000
WBNY 1370 Buffalo, N. Y.	100	WCOL 1210 Columbus, Ohio	100	WEOA 1370 Evansville, Ind.	100
WBOQ 860 New York, N. Y.	50000	WCOP 1120 Boston, Mass.	500	WESG 850 Elmira, N. Y.	1000
WBOW 1310 Terre Haute, Ind.	100	WCPO 1200 Cincinnati, Ohio	100	WEST 1200 Easton, Pa.	100
WBRB 1210 Red Bank, N. J.	100	WCRW 1210 Chicago, Ill.	100	WEVD 1300 New York, N. Y.	1000
WBRC 930 Birmingham, Ala.	1000	WCSC 1360 Charleston, S. C.	500	WEW 760 St. Louis, Mo.	1000
WBRE 1310 Wilkes-Barre, Pa.	100	WCSH 940 Portland, Me.	1000	WEXL 1310 Royal Oak, Mich.	50
WBT 1080 Charlotte, N. C.	50000	WDAE 1220 Tampa, Fla.	1000	WFAA 800 Dallas, Texas	50000
WBTM 1370 Danville, Va.	100	WDAF 610 Kansas City, Mo.	1000	WFAB 1300 New York, N. Y.	1000
WBZ 990 Boston, Mass.	50000	WDAH 1310 El Paso, Texas	100	WFAM 1200 South Bend, Ind.	100
WBZA 990 Springfield, Mass.	1000	WDAS 1370 Philadelphia, Pa.	100	WFAS 1210 White Plains, N. Y.	100
WCAC 600 Storrs, Conn.	500	WDAY 940 Fargo, N. D.	1000	WFBC 1300 Greenville, S. C.	1000
WCAD 1220 Canton, N. Y.	500	WDBJ 930 Roanoke, Va.	1000	WFBG 1310 Aitona, Pa.	100
WCAE 1220 Pittsburgh, Pa.	1000	WDBO 580 Orlando, Fla.	1000	WFBL 1360 Syracuse, N. Y.	1000
WCAL 1250 Northfield, Minn.	1000	WDEL 1120 Wilmington, Del.	250	WFBM 1230 Indianapolis, Ind.	1000
WCAM 1280 Camden, N. J.	500	WDEV 550 Waterbury, Vt.	500	WFRB 1270 Baltimore, Md.	500
WCAO 600 Baltimore, Md.	500	WDGY 1180 Minneapolis, Minn.	1000	WDFD 1310 Flint, Mich.	100
WCAP 1280 Asbury Park, N. J.	500	WDNC 1500 Durham, N. C.	100	WFEA 1340 Manchester, N. H.	500
WCAT 1200 Rapid City, S. D.	100	WDOO 1280 Chattanooga, Tenn.	1000	WFIL 560 Philadelphia, Pa.	1000
WCAU 1170 Philadelphia, Pa.	50000	WDRC 1330 Hartford, Conn.	1000	WFLA 620 Clearwater, Fla.	1000
WCAX 1200 Burlington, Vt.	100	WDSU 1250 New Orleans, La.	1000	WFMD 900 Frederick, Md.	500
WCAZ 1070 Carthage, Ill.	100	WDZ 1020 Tuscola, Ill.	250	WGAL 1500 Lancaster, Pa.	100
WCBA 1440 Allentown, Pa.	500	WEAF 660 New York, N. Y.	50000	WCAR 1450 Cleveland, Ohio	500
WCBD 1080 Waukegan, Ill.	5000	WEAN 780 Providence, R. I.	500	WGBB 1210 Freeport, N. Y.	100

NORTH AMERICAN B. C. STATIONS BY CALLS

WGBF 630 Evansville, Ind.	500	WHK 1390 Cleveland, Ohio	1000	WJDX 1270 Jackson, Miss.	1000
WGBI 880 Scranton, Pa.	500	WHLB 1370 Virginia, Minn.	100	WJEF 1210 Hagerstown, Md.	100
WGCM 1210 Gulfport, Miss.	100	WHN 1010 New York, N. Y.	1000	WJFM 1210 Lansing, Mich.	100
WGES 1360 Chicago, Ill.	500	WHO 1000 Des Moines, Iowa	50000	WJJD 1130 Chicago, Ill.	20000
WGH 1310 Newport News, Va.	100	WHOM 1450 Jersey City, N. J.	250	WJMS 1420 Ironwood, Mich.	100
WGL 1370 Fort Wayne, Ind.	100	WHP 1430 Harrisburg, Pa.	500	WJNO 1200 W. Palm Beach, Fla.	100
WGN 720 Chicago, Ill.	50000	WIBA 1280 Madison, Wis.	1000	WJR 750 Detroit, Mich.	50000
WGNV 1210 Chester, N. Y.	100	WIBG 970 Glenside, Pa.	100	WJSV 1460 Washington, D. C.	10000
WGPC 1420 Albany, N. Y.	100	WIBM 1370 Jackson, Mich.	100	WJW 1210 Akron, Ohio	100
WGR 550 Buffalo, N. Y.	1000	WIBU 1210 Poynette, Wis.	100	WJZ 760 New York, N. Y.	50000
WGST 890 Atlanta, Ga.	1000	WIBW 580 Topeka, Kans.	1000	WKAQ 1240 San Juan, P. R.	1000
WGY 790 Schenectady, N. Y.	50000	WIBX 1200 Utica, N. Y.	100	WKAR 850 East Lansing, Mich.	1000
WHA 940 Madison, Wis.	2500	WICC 600 Bridgeport, Conn.	500	WKBB 1500 East Dubuque, Ill.	100
WHAM 1150 Rochester, N. Y.	50000	WIL 1200 St. Louis, Mo.	100	WKBB 1380 LaCrosse, Wis.	1000
WHAS 820 Louisville, Ky.	50000	WILL 890 Urbana, Ill.	250	WKBI 1420 Cicero, Ill.	100
WHAT 1310 Philadelphia, Pa.	100	WILM 1420 Wilmington, Del.	100	WKBN 570 Youngstown, Ohio	500
WHAZ 1300 Troy, N. Y.	500	WIND 560 Gary, Ind.	1000	WKBO 1200 Harrisburg, Pa.	100
WHB 860 Kansas City, Mo.	1000	WINS 1180 New York, N. Y.	1000	WKBW 1500 Richmond, Ind.	100
WHBB 1500 Selma, Alabama	100	WIOD 1300 Miami, Fla.	1000	WKBW 1480 Buffalo, N. Y.	5000
WHBC 1200 Canton, Ohio	100	WIP 610 Philadelphia, Pa.	1000	WKBZ 1500 Muskegon, Mich.	100
WHBF 1210 Rock Island, Ill.	100	WIRE 1400 Indianapolis, Ind.	500	WKEU 1500 Griffin, Ga.	100
WHBI 1250 Newark, N. J.	1000	WIS 560 Columbia, S. C.	1000	WKOK 1210 Sunbury, Pa.	100
WHBL 1300 Sheboygan, Wis.	500	WISN 1120 Milwaukee, Wis.	250	WKRC 550 Cincinnati, Ohio	1000
WHBQ 1370 Memphis, Tenn.	100	WJAC 1310 Johnstown, Pa.	100	WKY 900 Oklahoma City, Okla.	1000
WHBU 1210 Anderson, Ind.	100	WJAG 1060 Norfolk, Neb.	1000	WKZO 590 Kalamazoo, Mich.	1000
WHBY 1200 Green Bay, Wis.	100	WJAR 890 Providence, R. I.	500	WLAC 1470 Nashville, Tenn.	5000
WHDF 1370 Calumet, Mich.	100	WJAS 1290 Pittsburgh, Pa.	1000	WLAK 1310 Lakeland, Fla.	100
WHDH 830 Boston, Mass.	1000	WJAX 900 Jacksonville, Fla.	1000	WLAP 1420 Lexington, Ky.	100
WHDL 1420 Olean, N. Y.	100	WJAY 610 Cleveland, Ohio	500	WLB 1250 Minneapolis, Minn.	1000
WHEB 740 Fortsouth, N. H.	250	WJBC 1200 Bloomington, Ill.	100	WLBC 1310 Muncie, Ind.	100
WHEC 1430 Rochester, N. Y.	500	WJBK 1500 Detroit, Mich.	100	WLBF 1420 Kansas City, Kans.	100
WHEF 1500 Kosciusko, Miss.	100	WJBL 1200 Decatur, Ill.	100	WLBI 900 Stevens Point, Wis.	2500
WHFC 1420 Cicero, Ill.	100	WJBO 1420 Baton Rouge, La.	100	WLBS 620 Bangor, Me.	500
WHIO 1260 Dayton, Ohio	1000	WJBR 1420 Gastonia, N. C.	100	WLEU 1420 Erie, Pa.	100
WHIS 1410 Bluefield, W. Va.	250	WJBW 1200 New Orleans, La.	100	WLLH 1370 Lowell, Mass.	100
WHJB 620 Greensburg, Pa.	250	WJBY 1210 Gadsden, Ala.	100	WLNH 1310 Laconia, N. H.	100

NORTH AMERICAN B. C. STATIONS BY CALLS

WLS 870	50000	WNBH 1310	100	WPRP 1420	100
Chicago, Ill.		New Bedford, Mass.		Ponce, P. R.	
WLTH 1400	500	WNBR 1430	500	WPTF 680	5000
Brooklyn, N. Y.		Memphis, Tenn.		Raleigh, N. C.	
WLVA 1200	100	WNBX 1260	1000	WQAM 560	1000
Lynchburg, Va.		Springfield, Vt.		Miami, Fla.	
WLW 700	500000	WNBZ 1290	100	WQAN 880	250
Cincinnati, Ohio		Saranac Lake, N. Y.		Scranton, Pa.	
WLWL 1100	5000	WNEL 1290	1000	WQBC 1360	1000
New York, N. Y.		San Juan, P. R.		Vicksburg, Miss.	
WMAL 630	250	WNEW 1250	1000	WQDM 1370	100
Washington, D. C.		Newark, N. J.		St. Albans, Vt.	
WMAQ 670	50000	WNOX 1010	1000	WRAK 1370	100
Chicago, Ill.		Knoxville, Tenn.		Williamsport, Pa.	
WMAS 1420	100	WNRI 1200	100	WRAW 1310	100
Springfield, Mass.		Newport, R. I.		Reading, Pa.	
WMAZ 1180	1000	WNYC 810	1000	WRAX 920	250
Macon, Ga.		New York, N. Y.		Philadelphia, Pa.	
WMBC 1420	100	WOAI 1190	50000	WRBL 1200	100
Detroit, Mich.		San Antonio, Texas		Columbus, Ga.	
WMBD 1440	500	WOC 1370	100	WRC 950	500
Peoria, Ill.		Davenport, Iowa		Washington, D. C.	
WMBG 1210	100	WOCL 1210	50	WRDO 1370	100
Richmond, Va.		Jamestown, N. Y.		Augusta, Me.	
WMBH 1420	100	WOI 640	5000	WRDW 1500	100
Joplin, Mo.		Ames, Iowa		Augusta, Ga.	
WMBI 1080	5000	WOKO 1430	500	WREC 600	1000
Chicago, Ill.		Albany, N. Y.		Memphis, Tenn.	
WMBO 1310	100	WOL 1310	100	WREN 1220	1000
Auburn, N. Y.		Washington, D. C.		Lawrence, Kans.	
WMBQ 1500	100	WOMT 1210	100	WRGA 1500	100
Brooklyn, N. Y.		Manitowoc, Wis.		Rome, Ga.	
WMBR 1370	100	WOOD 1270	500	WRJN 1370	100
Jacksonville, Fla.		Grand Rapids, Mich.		Racine, Wis.	
WMC 780	1000	WOPI 1500	100	WROK 1410	500
Memphis, Tenn.		Bristol, Tenn.		Rockford, Ill.	
WMCA 570	500	WOR 710	50000	WROL 1310	100
New York, N. Y.		Newark, N. J.		Knoxville, Tenn.	
WMEX 1500	100	WORC 1280	500	WRR 1280	500
Boston, Mass.		Worcester, Mass.		Dallas, Texas	
WMFD 1370	100	WORK 1320	1000	WRUF 830	5000
Wilmington, N. C.		York, Pa.		Gainesville, Fla.	
WMFF 1310	250	WORL 920	500	WRVA 1110	5000
Plattsburg, N. Y.		Needham, Mass.		Richmond, Va.	
WMFG 1210	100	WOS 630	500	WSAI 1330	1000
Hibbing, Minn.		Jefferson City, Mo.		Cincinnati, Ohio	
WMFJ 1420	100	WOSU 570	750	WSAJ 1310	100
Daytona Beach, Fla.		Columbus, Ohio		Grove City, Pa.	
WMFN 1210	100	WOV 1130	1000	WSAN 1440	500
Clarksdale, Miss.		New York, N. Y.		Allentown, Pa.	
WMFO 1370	100	WOW 590	5000	WSAR 1350	1000
Decatur, Ala.		Omaha, Neb.		Fall River, Mass.	
WMFR 1200	100	WOWO 1160	10000	WSAY 1210	100
High Point, N. C.		Fort Wayne, Ind.		Rochester, N. Y.	
WMMN 890	500	WPAD 1420	100	WSAZ 1190	1000
Fairmount, W. Va.		Paducah, Ky.		Huntington, W. Va.	
WMPC 1200	100	WPAR 1420	100	WSB 740	50000
Lapeer, Mich.		Parkersburg, W. Va.		Atlanta, Ga.	
WMSD 1420	100	WPAX 1210	250	WSBC 1210	100
Sheffield, Ala.		Thomasville, Ga.		Chicago, Ill.	
WMT 600	1000	WPAY 1370	100	WSBT 1360	500
Cedar Rapids, Iowa		Portsmouth, Ohio		South Bend, Ind.	
WNAC 1230	1000	WPEN 920	250	WSFA 1410	500
Boston, Mass.		Philadelphia, Pa.		Montgomery, Ala.	
WNAD 1010	1000	WPFB 1370	100	WSGN 1310	100
Norman, Okla.		Hattiesburg, Miss.		Birmingham, Ala.	
WNAX 570	1000	WPG 1100	5000	WSIX 1210	100
Yankton, S. D.		Atlantic City, N. J.		Springfield, Tenn.	
WNBC 1380	250	WPHR 880	500	WSJS 1310	100
New Britain, Conn.		Petersburg, Va.		Winston-Salem, N. C.	
WNBF 1500	100	WPRO 630	250	WSM 650	50000
Binghamton, N. Y.		Providence, R. I.		Nashville, Tenn.	

NORTH AMERICAN B. C. STATIONS BY CALLS

WSMB 1320 New Orleans, La.	500	WWNC 570 Asheville, N. C.	1000	XEFL 1150 Tijuana, L. C.	250
WSMK 1380 Dayton, Ohio	200	WWRL 1500 Woodside, N. Y.	100	XEFO 940 Mexico City, D. F.	5000
WSOC 1210 Charlotte, N. C.	100	WWSW 1500 Pittsburgh, Pa.	100	XEFV 1210 Juarez, Chih.	100
WSPA 920 Spartanburg, S. C.	1000	WWVA 1160 Wheeling, W. Va.	5000	XEFW 1310 Tampico, Tams.	250
WSPD 1340 Toledo, Ohio	1000	WXYZ 1240 Detroit, Mich.	1000	XEFZ 1370 Mexico City, D. F.	100
WSPR 1140 Springfield, Mass.	500	WIXBS 1530 Waterbury, Conn.	1000	XEG 1270 Ensenada, B. C.	200
WSUI 880 Iowa City, Iowa	500	WZXR 1550 Long Island City, N. Y.	1000	XEH 1150 Monterrey, N. L.	250
WSUN 620 St. Petersburg, Fla.	1000	W6XAI 1550 Bakersfield, Calif.	1000	XEI 1370 Morelia, Mich.	125
WSVA 550 Harrisonburg, Va.	500	W9XBY 1530 Kansas City, Mo.	1000	XEJ 1020 Juarez, Chih.	1000
WSVS 1370 Buffalo, N. Y.	50	XEA 1060 Guadalajara, Jal.	500	XEK 990 Mexico City, D. F.	100
WSYB 1500 Rutland, Vt.	100	XEAA 920 Mexicali, B. C.	200	XEKL 1240 Leon, Guan.	500
WSYR 570 Syracuse, N. Y.	250	XEAC 1240 Tijuana, L. C.	250	XEL 1100 Mexico City, D. F.	250
WTAD 900 Quincy, Ill.	500	XEAF 990 Nogales, Son.	500	XELO 1110 Piedras Negras, Coah.	10000
WTAG 580 Worcester, Mass.	500	XEAG 1310 Cordoba, Ver.	10	XEMO 860 Tijuana, L. C.	5000
WTAL 1310 Tallahassee, Fla.	100	XEAI 1240 Mexico City, D. F.	100	XEMX 1280 Mexico City, D. F.	12
WTAM 1070 Cleveland, Ohio	50000	XEAM 750 Matamoros, Tams.	7.5	XEMZ 820 Coronado Isl., L. C.	50000
WTAQ 1330 Green Bay, Wis.	1000	XEAO 560 Mexicali, B. C.	250	XEN 710 Mexico City, D. F.	1000
WTAR 780 Norfolk, Va.	500	XEAS 1090 Rosarito, L. C.	1000	XENT 910 Nuevo Laredo, Tams.	150000
WTAW 1120 College Station, Tex.	500	XEAS 1160 Saltillo, Coah.	100	XEOK 760 Tijuana, L. C.	250
WTAX 1210 Springfield, Ill.	100	XEAT 1210 Hidalgo, Chih.	50	XEOX 640 Saltillo, Coah.	500
WTBO 800 Cumberland, Md.	250	XEAW 960 Reynosa, Tams.	50000	XEPN 590 Piedras Negras, Coah.	50000
WTCN 1250 Minneapolis, Minn.	1000	XEAZ 1420 Guajuato, Gto.	7	XERA 840 Villa Acuna, Coah.	250000
WTEL 1310 Philadelphia, Pa.	100	XEB 1030 Mexico City, D. F.	10000	XES 990 Tampico, Tams.	250
WTFI 1450 Athens, Ga.	500	XEBH 930 Hermosillo, Sonora	500	XESL 1160 Tijuana, L. C.	....
WTHT 1200 Hartford, Conn.	100	XEBK 1000 Nuevo Laredo, Tams.	100	XET 690 Monterrey, N. L.	500
WTIC 1040 Hartford, Conn.	50000	XEC 1160 Tijuana, L. C.	30	XETB 1310 Torreon, Coah.	125
WTJS 1310 Jackson, Tenn.	100	XECW 1310 Mexico City, D. F.	10	XETF 1220 Veracruz, Ver.	12
WTMJ 620 Milwaukee, Wis.	1000	XED 1155 Guadalajara, Jal.	2500	XETH 1210 Puebla, Pue.	100
WTMV 1500 East St. Louis, Ill.	100	XEE 1210 Durango, Dgo.	50	XEU 1010 Veracruz, Ver.	250
WTNJ 1280 Trenton, N. J.	500	XEF 980 Juarez, Chih.	100	XEW 890 Mexico City, D. F.	50000
WTOC 1260 Savannah, Ga.	1000	XEFA 1180 Mexico City, D. F.	500	XEWZ 1150 Mexico City, D. F.	100
WTRC 1310 Elkhart, Ind.	100	XEFB 1420 Monterrey, N. L.	100	XEX 1310 Monterrey, N. L.	125
WFWF 1400 Brooklyn, N. Y.	500	XEFC 560 Merida, Yuc.	100	XEY 1000 Merida, Yuc.	10
WVAE 1200 Hammond, Ind.	100	XEFE 850 Laredo, Tams.	250	XEYZ 780 Mexico City, D. F.	10000
WWJ 920 Detroit, Mich.	1000	XEFI 1440 Chihuahua, Chih.	250	XEZ 630 Merida, Yuc.	500
WWL 850 New Orleans, La.	10000	XEFJ 1230 Monterrey, N. L.	100		

*Continued on
Page 112*

Bill Smith Ought to be Ashamed of his Ignorance

Bill has been tuning a radio set for years and yet he knows almost nothing about what happens in his set when he turns the dials.

How can a man be content to remain in ignorance of such a fascinating thing as Radio?

Bill ought to read the **BEGINNER'S STORY OF RADIO** by B. Francis Dashiell, Technical Editor of **RADEX**

It is a book of 96 pages crammed full of information about the elements of Radio, written in simple words and profusely illustrated.

Bound in beautiful leatherette, the price is

Only 50c postpaid

If you live in Ohio, add 2c tax.

The Radex Press Inc.
Conneaut Ohio

AROUND THE CLOCK ON THE SHORT WAVES

The time is given by the 24-hour clock. Noon is always 12:00 but midnight may be either 00:00 or 24:00. To change time to your own clock, subtract twelve from p.m. hours. Thus, 18:00 is 6 p.m. and 23:00 is 11:00 p.m. The time lines used in charts are for Eastern Standard. Those living in other zones may clip out the lines below and paste them over the EST lines. The following strips are for Central Standard Time. For MST, start with 10:00 and 22:00. For PST with 09:00 and 21:00.

Central Time A. M.	23:00
Central Time P. M.	23:15
Central Time P. M.	23:30
Central Time P. M.	23:45
Central Time P. M.	00:00
Central Time P. M.	00:15
Central Time P. M.	00:30
Central Time P. M.	00:45
Central Time P. M.	01:00
Central Time P. M.	01:15
Central Time P. M.	01:30
Central Time P. M.	01:45
Central Time P. M.	02:00
Central Time P. M.	02:15
Central Time P. M.	02:30
Central Time P. M.	02:45
Central Time P. M.	03:00
Central Time P. M.	03:15
Central Time P. M.	03:30
Central Time P. M.	03:45
Central Time P. M.	04:00
Central Time P. M.	04:15
Central Time P. M.	04:30
Central Time P. M.	04:45
Central Time P. M.	05:00
Central Time P. M.	05:15
Central Time P. M.	05:30
Central Time P. M.	05:45
Central Time P. M.	06:00
Central Time P. M.	06:15
Central Time P. M.	06:30
Central Time P. M.	06:45
Central Time P. M.	07:00
Central Time P. M.	07:15
Central Time P. M.	07:30
Central Time P. M.	07:45
Central Time P. M.	08:00
Central Time P. M.	08:15
Central Time P. M.	08:30
Central Time P. M.	08:45
Central Time P. M.	09:00
Central Time P. M.	09:15
Central Time P. M.	09:30
Central Time P. M.	09:45
Central Time P. M.	10:00
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Central Time P. M.	16:45
Central Time P. M.	17:00
Central Time P. M.	17:15
Central Time P. M.	17:30
Central Time P. M.	17:45
Central Time P. M.	18:00
Central Time P. M.	18:15
Central Time P. M.	18:30
Central Time P. M.	18:45
Central Time P. M.	19:00
Central Time P. M.	19:15
Central Time P. M.	19:30
Central Time P. M.	19:45
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Central Time P. M.	20:45
Central Time P. M.	21:00
Central Time P. M.	21:15
Central Time P. M.	21:30
Central Time P. M.	21:45
Central Time P. M.	22:00
Central Time P. M.	22:15
Central Time P. M.	22:30
Central Time P. M.	22:45

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	XFD	1340	350
	Jalapa, Ver.		
	XFO	940	5000
	Mexico City, D. F.		
XZZZ	1370	100	
San Luis Potosi, S.L.P.			
XFA	1310	5	
Aguascalientes, Ags.			
XFB	1270	250	
Jalapa, Ver.			
XFC	810	350	
Aguascalientes, Ags.			
	XFD	1340	350
	Jalapa, Ver.		
	XFO	940	5000
	Mexico City, D. F.		
	XFX	610	1000
	Mexico City, D. F.		
	YNLF	1275	20
	Managua, Nicaragua		
	YNOP	1230	100
	Managua, Nicaragua		
	YNVA	950	30
	Managua, Nicaragua		

INSURE YOUR RADIO ENJOYMENT

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The Radex Press Inc.
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Enclosed find \$.....for which send me postpaid my choice of your offers
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THE one who enjoys Radio naturally desires to know something about its seemingly miraculous character. Practically all of the books on Radio are very technical in language and description. RADEX, therefore, commissioned its Technical Editor, B. Francis Dashiell, to write "The Beginners' Story of Radio" in the simplest possible words and terms. This we have published in book form. There are 96 pages profusely illustrated with simple pictures and diagrams, bound in handsome leatherette.

"The Beginners' Story of Radio" takes you on a tour through your own radio set, pointing out in language a young boy can understand, just what each part does and just what happens when you turn the dial. With this book available, no one can be excused for an ignorance of the elements of Radio.

Send for it today.

Price 50 cents postpaid.

THE RADEX Radio Map of the World, eleven by twenty-two inches in size, portrays the countries and principal cities of the world and shows their time zones. On the front cover is a dial marked with the hours of the day. You simply turn this dial to the hour in your zone and instantly the corresponding times for the whole world are shown. The hours where twilight, darkness and dawn occur are graphically shown. The dial also indicates where the time is yesterday, today or tomorrow. Thus if you set the dial for 3:00 a. m. in the Eastern Standard zone, the time is shown in Hawaii as 9:30 p. m. **YESTERDAY**. If set for 9:00 a. m. **EST**, the time in New Zealand is shown as 1:30 a. m. **TOMORROW**.

If you desire to hear a program in Germany which occurs at 6:00 a. m. their time, the dial shows that you must listen at midnight, **EST**. There are no mental calculations to make—no adding nor subtracting—the dial does it all.

The price of the Map of the World with Time-Converting Dial is only 25 cents postpaid.

IT IS so easy to forget to tune in a favorite program that we have prepared what we call the RADEX Radio "Slate." It consists of four pages of heavy Bristol board on which pencil entries may easily be made and erased. The eight columns are ruled into fifteen-minute periods with space for the program, the station and the dial number. All of the evening hours and those of Sunday afternoon are provided for. You merely enter the names of the programs you wish to hear, the station over which you receive it best and the dial number. The "Slate" then reminds you in the most convenient way possible, when and where to tune for the programs you do not want to miss.

Price, 10 cents each, two for 15 cents or four for 25 cents.

THE RADEX PRESS INC.
CONNEAUT, OHIO



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

I THOUGHT RADIO WAS A PLAYTHING

But Now My Eyes Are Opened, and I'm Making Over \$40.00 a Week!

\$40 a week! Man alive, a year ago I thought anyone making so much was just barely lucky.

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

If you had told me that twelve months later I would be making \$40 a week in my own Radio business—I'd thought you were crazy.

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

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

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

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

What has happened since seems almost like a dream. I started to take their course and soon I was ready to start making money in my neighborhood—as much as \$5 and \$15 a week. It wasn't long until I had saved enough money to start a little business of my own.

That business has since grown to the point where I am clearing an average of \$40 a week. All this took place under the watchful guidance of my friends at the National Radio Institute. They also offered to train me for other lines. Broadcasting Stations, Radio Manufacturers, Operating on Board Ship, Servicing Sets, Aviation Radio, Television, Short Wave, Automobile and Police Radio, Loud Speaker Systems are other fields their training covers. And to think, until the day I wrote for that book, I'd been wailing, "I never had a chance and will never have one because I have no pull or a good education!"

Friend—you may not be as bad off as I was—

but think it over—are you satisfied? Are you making as much money as you need? Would you sign a contract to stay where you are for the next ten years at the same salary? Those are the things you have to think about—because no one is going to make it his business to push you ahead—you must make it your own business.

Take my tip—write for their book, "Rich Rewards in Radio." It won't cost you anything except a postage stamp. It shows you a lot of things which I don't believe you know now about Radio—a lot of facts and figures on the opportunities in this new, fast-growing field. Where the jobs are, what they pay, how to get ready for them. Beginners as well as experienced men are making as much as \$500 to \$1,500 a year more as a result of N.R.I. training. And at the same time they send the book "Rich Rewards in Radio" they'll send you, without any cost or obligation, a Free Lesson to prove that their training is easy, practical, fascinating. The lesson they send "Radio Receiving Troubles—the Cause and Remedy" is valuable. And when you see how simple this lesson is to understand you'll know why many fellows with less than a grammar school education have mastered N.R.I. training and are now making good money as Radio Experts.

You are not placing yourself under any obligation by writing for this material as they will gladly send it to anyone who is ambitious and wants to get ahead. Mail the coupon in an envelope or paste it on a 1c postcard. Just address Mr. J. E. Smith, President, National Radio Institute, Dept. 6EO, Washington, D. C.

J. E. SMITH, President,
National Radio Institute
Dept. 6EO, Washington, D. C.

Dear Mr. Smith:

Without obligation, send me the sample lesson and your free book about spare time and full time Radio opportunities, and how I can train for them at home in spare time. (Please print plainly)

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City State

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