

N.S.E.

Matthew & Leschner

THE MAY 1936

25^c

RADIO IN INDEX

The All-wave DX Log of the World



Alice Reinehart

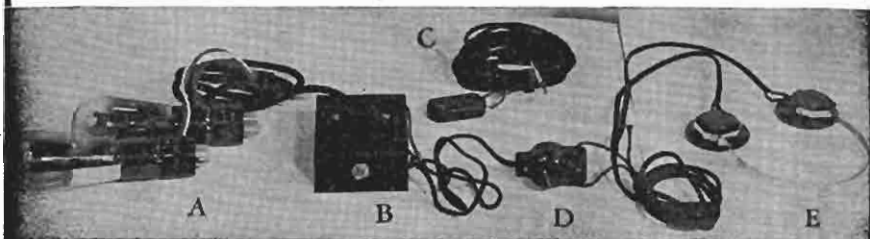
Tuning the Antenna Circuit
The Annoying Problem of Fading
Where and When to Tune
for the Day's News

All the Broadcast Stations of the World

No. 99

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The Radex Press, Inc. Conneaut, Ohio

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

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May 1, 1936



RAD IO IN DEX



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TWELFTH YEAR

NUMBER 99

CONTENTS

Frontispiece—Alice Reinheart
In the "True Story Court of Human Relations"

	PAGE
The Close of the RADEX Mystery DX Contest	3
Five Years of DXing, <i>by S. R. Lewis, Grand Winner</i>	3
Our Readers' Troubles, <i>Diagnosed by the Technical Editor</i>	12
Around the All-Wave Dial, <i>by the Short Wave Editor</i>	17
A Tuned Antenna System	22
Turning our Readers' Dials, <i>by the DX Editor</i>	24
Leaves from a DXers Scrap Book, <i>by "Count de Veries"</i>	30
The DX Policy of Station CFCO, <i>by John Beardall</i>	33
The Clearing House Reports, <i>by Emily Griswold, Secretary</i>	34
What I Like About the Globe Circlers DX Club, <i>by Reginald Vining</i>	35
The New Stromberg-Carlson Receiver, <i>by the Technical Editor</i>	37
What About the Problem of Fading? <i>by B. Francis Dashiell</i>	40
The Problem of Man-Made Interference, <i>by Carleton Lord</i>	44
Assorted Short Wave Information	49
Where, and When to Tune for the News of the Day	51
What's on the Air Tonight? <i>The Hour-by-Hour Programs</i>	53
Classified Index to Your Favorite Features	61
Around the Clock on the Short Waves	111
A Quick Index to All Station Data	112

\$2.00 Per Year

Outside of the U. S. A. and Canada \$2.50 Per Year

25c Per Copy

See Subscription Blank on Page 112

Published Monthly Excepting July and August

THE RADEX PRESS INC.

Publication Office: - 326 Penton Bldg., Cleveland, Ohio
Editorial and Advertising Office: - - - - - Conneaut, Ohio

Entered as second-class matter April 23, 1931, at the postoffice at Cleveland, Ohio, under the Act of March 3, 1879.

Printed in the U. S. A.

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
	W9XBY	1530	Kansas City, Mo.
	WBIG	1440	Greensboro, N. C.
	WFBR	1270	Baltimore, Md.
2:00-6:00	KFYR	550	Bismarck, N. D.
	CFCO	630	Chatham, Ont.
3:00-4:00	KGIW	1420	Alamosa, Colo.
	WDNC	1500	Durham, N. C.
	WNEW	1250	Newark, N. J.
	WEXL	1310	Royal Oak, Mich.
4:00-5:00	WLAC	1470	Nashville, Tenn.
	WSUI	880	Iowa City, Iowa
	KWBG	1420	Hutchinson, Kans.
5:00-6:00	WHAM	1150	Rochester, N. Y.

February 23rd

2:00-3:00	KOH	1380	Reno, Nevada
	WPHR	880	Petersburg, Va.
	WSXO	700	Cincinnati, Ohio
	XEPN	585	Piedras Negras, Coah.
3:00-4:00	KOMA	1480	Oklahoma City, Okla.
	WAAW	860	Omaha, Neb.
	WBBR	1300	Brooklyn, N. Y.
	WIBM	1370	Jackson, Mich.
4:00-5:00	WSYR	570	Syracuse, N. Y.
	WTFI	1450	Athens, Ga.
	WTRC	1310	Elkhart, Ind.
	WHJB	620	Greensburg, Pa.
	WNEW	1250	Newark, N. J.
	WOI	640	Ames, Iowa
	GJLS	1310	Yarmouth, N. S.
5:00-6:00	CKNX	1200	Wingham, Ont.
	WCSH	940	Portland, Me.

February 24th

2:00-3:00	CFCN	1030	Calgary, Alta.
3:00-4:00	KWYO	1370	Sheridan, Wyo.
	CKOV	630	Kelowna, B. C.
	KVOD	920	Denver, Colo.
4:00-5:00	WADC	1320	Akron, Ohio
	WHA	940	Madison, Wisc.
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 Hallicrafters 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. Michael 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.

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

The Contest and Western Listeners

832 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

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 kecs 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 kecs.

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 setup 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. Berteau 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 re-alignment tool with an off-set 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 megs.), it goes "boop-boop-boop" 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 fading 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 WLW 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 Recreater 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 purpose.
(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.

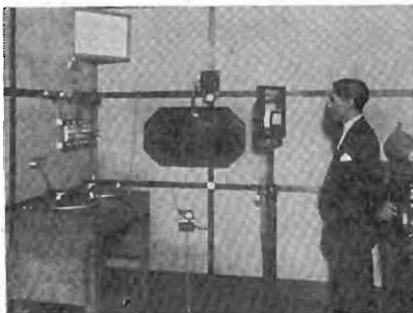
Germany sends out six daily broadcasts in English, at 0430, 0700, 0900, 1400, 1600 and 2015. Other languages used on the balance of their news periods are German, French, Spanish, Dutch and Portuguese.

Italy so far holds the record for the number of languages used, fourteen, as follows: Italian, English, French, German, Spanish, Portuguese, Hungarian, Croation, 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 shortwaves. Reports should be addressed to Sr. F. A. Sanabria, Apartado 1105.

Radio Bangkok Reappears

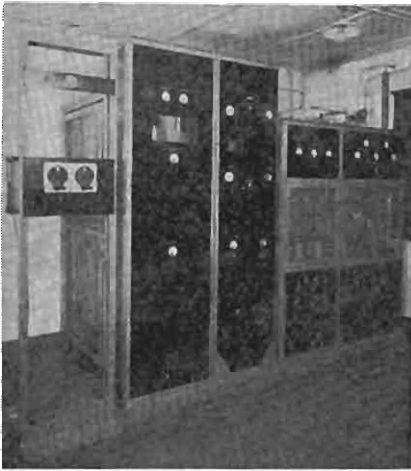
Sr. Miguel Rivera, formerly of Peru but now residing in Hong Kong, sends information which should be highly interesting. He reports Radio Bangkok, HS8PJ, an experimental broadcasting station on 27.83 meters, but they announced they may soon change their wavelength to 29.5 meters (10.165 megs.). The aerial 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 station VQG has been obtained. 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 megas., 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 megas., adding further to the confusion, but

now 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 shortwave 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, Buena-ventura, 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 WIBM 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 lead-in 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 lead-in is required, a length of 78 feet must be added to the original lead-in.

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 by 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, KFPFM, 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), VK5IV (3 watts), XHHG (100 watts), CKWX (100 watts), KDB, KGKB, KG CX 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-telephone 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 kcys," 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 kcys), 10AK, LR5, LS2, KELD, CFJC, CHCK, CKMC, CKCH, KFVS, WNEL, Poste Parisien, Pecamp, 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 Daneker, 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, bemoaned 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.

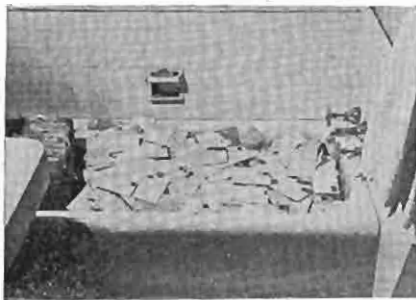
When we decide to run a DX program we always start at about 2:45 a.m., which is the approximate time most of the Pacific Coast stations leave the air for the night. Before the broadcast is actually put on, however, we check on reception conditions for the evening by contacting several reliable local 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 superheterodyne 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 Jolsen, 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 Penhouse 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, Wisc., 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, Kalaloch, Wash. New.
- 3.190 WAJJ, -K, -L, -M, -N, portables in Florida.
- 3.430 YDO6, Sourabaya, Java, from 2.730.
- 5.165 KNBE, Glendale, Calif.; KBNF, Mokapu, Hawaii; KNBG, Sumay, Guam; KNBH, Midway; KNBI, Wake. New airways.
- 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 HILS, Puerto Plata, D. R. New.
- 6.630 HIT, Trujillo, D. R. New.
- 6.980 HI3C, 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 H88PJ, Bangkok, Slam. 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	Cienfuegos, Cuba, 200 from 500
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	KTD	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	CMBX	Havana, Cuba, from 640
1060	CMBX	Havana, Cuba, from 1380
1110	CMCJ	Havana, Cuba, from 1100
1300	WHBL	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-ye-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 "xmitter," 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 xmitter 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	CFNB 550
9:00 a.m.	12:30 p.m.	CJCB 1240
CKCW 1370	CHNC 1410	7:30 p.m.
	CJLS 1310	CFCY 630
9:30 a.m.	1:00 p.m.	8:00 p.m.
CHNS 930	CJCB 1240	CJCB 1240
10:30 a.m.	5:05 p.m.	11:45 p.m.
CJCB 1240	CHSJ 1120	CFCY 630

EASTERN STANDARD TIME

7:00 a.m.	WPRO 630	WBSO 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	CKMK 1120	WLEU 1420	CKCV 1310 ³	WPHR 880	WKJC 1200
WNEI 1290	WTIC 1040	WFDL 1310	WCKY 1490	12:03 p.m.	CKTB 1200	1:45 p.m.	WNEI 1290
7:15 a.m.	WWVA 1160	WHDL 1420	WGBI 880	WWJ 920	WAAT 940	WICC 600	WSPA 920
WCMI 1310	8:05 a.m.	WIP 610	WKJC 1200	12:15 p.m.	WADC 1320	WTAR 780	WSPD 1340
WKZO 590	WEEI 590	WKBZ 1500	WMBC 1420	WCSH 940	2:00 p.m.	4:15 p.m.	
WNAC 1230	8:15 a.m.	WNEI 1290	WNEL 1290	WEAN 780	WCSC 1360	CKLW 1030	
WNBX 1260	WASH 1270	WSAR 1450	WSAR 1450	WCAJ 1280	WGH 1310	WKJC 1200	WHBCL430 ⁵
WSAJ 1310 ¹	WBSO 920	9:45 a.m.	WTIC 1040 ²	WDAS 1370	WMFD 1370	WKRC 550	WOL 1310
7:30 a.m.	WIP 610	WGBI 880	11:15 a.m.	WHAM 1150	WPAP 1420	WSPD 1340	4:30 p.m.
WAAT 940	WKZO 590	9:55 a.m.	WMPG 1200	WKBN 570	WTBO 800	2:15 p.m.	WGAN 880
WBT 1080	WNBC 1380	CKLW 1030	WSPD 1340	WOL 1310	12:55 p.m.	WBT 1080	4:45 p.m.
WMBC 1420	WSAR 1450	WOKO 1430	11:30 a.m.	WSOC 1210	WBRE 1310	2:30 p.m.	WAIM 1200
WSAI 1330	8:30 a.m.	10:00 a.m.	WAGM 1420	WEEI 590	1:00 p.m.	KQV 1380	WCNW 1500
7:35 a.m.	WCAU 1170	Red & Blue	WBNS 1430	WHBC 1430	CKCV 1310 ⁴	WINS 1180	5:00 p.m.
WICC 600	WEHC 1420	CBS	WDBO 580	WNBC 1380	KDKA 980	2:45 p.m.	WBSO 920
7:45 a.m.	WFBC 1300	WCAU 1170	WSYB 1500	WOPI 1500	WFBC 1300	WAAB 1410	WMBX 1260
WBIG 1440	WHK 1390	WDEL 1120	11:45 a.m.	WWVA 1160	WFBG 1310	WEEU 830	WBZA 990
WFIL 560	WOPI 1500	WELL 1420	WNAC 1230	12:20 p.m.	WJBK 1500	2:55 p.m.	WKJC 1200
WINS 1180	8:45 a.m.	WIBX 1200	WSYR 570	WBCM 1410	WJSV 1460	WBAL 1060	WKRC 550
WKRC 550	WJBJ 1210	WJSV 1460	11:55 a.m.	12:25 p.m.	WKJC 1200	WBNS 1430	WOR 710
WLW 700	8:55 a.m.	WKJC 1200	CFCF 600	CFRB 690	WMBR 1370	WCAE 1220	5:10 p.m.
WMAZ 1180	WEAN 780	WNBH 1310	WBAL 1060	12:30 p.m.	WNBH 1310	3:00 p.m.	WSPD 1340
WSAZ 1190	9:00 a.m.	WNYC 810	Noon	WBEN 900	WPRO 630	WBRE 1310	5:15 p.m.
7:55 a.m.	WAIM 1200	WOR 710 ²	CJIC 890	WBT 1080 ²	WSAR 1450	WGBI 880	CMCF 815
WBNS 1430	WBEN 900	WPAP 1420	CMJA 1010	WCAE 1220	WSPD 1340	WINS 1180	WBIG 1440
WMBR 1370	WBIG 1440	WPTF 680	WBZ 990	WELL 1420	WJTG 580	WIP 610	WBZ 990
8:00 a.m.	WCSC 1360	WSPA 920	WCAE 1220	WFDL 1310	WTIC 1040	WKJC 1200	WCAU 1170
CFRB 690	WGAR 1450	10:15 a.m.	WDAE 1220	WIBM 1370	1:10 p.m.	3:14 p.m.	WCSH 940
CKLW 1030	WIS 1010	WKZO 590	WFBR 1270	WJAS 1290	WCAD 1220	WFAS 1210 ¹	WMFF 1310
CMJH 1360	WJBK 1500	WLW 700	WFIL 560	WKBZ 1500	1:15 p.m.	3:15 p.m.	WSAR 1450
CMKM 1120	WKJC 1200	WSAR 1450	WFMD 900	WKRC 550	WCAU 1170	WMAZ 1180	WBAL 1060
WAAB 1410	WLEU 1420	10:30 a.m.	WGAR 1450	WKZO 590	WMAZ 1180	3:30 p.m.	5:20 p.m.
WADC 1320	WMAZ 1180	WIBX 1200	WINS 1180	WOR 710	WTFI 1450	WJSV 1460	WJR 750
WCKY 1490	WMBR 1370	WINS 1180	WPAX 1210	1:20 p.m.	WMCA 570	5:30 p.m.	
WFBR 1270	WMFF 1310	WMAZ 1180	WIOD 1300	WHEB 740	3:45 p.m.	CRCK 1050	
WKBN 570	WSOC 1210	CBS Sun.	WIP 610	1:30 p.m.	WSYR 570	WBRB1210 ⁶	
WKJC 1200	9:15 a.m.	10:45 a.m.	WIS 1010	12:35 p.m.	CKLW 1030	WTFI 1450	WFLA 620
WOR 710	WBRE ¹ 1310	WBT 1080	WJW 1210	CJKL 530	WBTM 1370	WGBI 880 ²	WICC 600

WHERE TO GET THE DAY'S NEWS

WNBC 1380	WCSC 1360	CBS	WGBI 880	7:30 p.m.	WKJC 1200	WNBH 1310	WHEC 1430
WOCL 1210	WGAR 1450	Red & Blue	WIMS 1180	WFAS 1210 ⁹	WTAR 780	WNEI 1290	WIBX 1200
5:35 p.m.	WIBX 1200	CFRB 690	WMB0 1310	WMAZ 1180	9:15 p.m.	10:05 p.m.	WJAS 1290
WWVA 1160	WIS 1010	WFBC 1300	6:55 p.m.	7:45 p.m.	WOPI 1500	WBT 1080	WKJC 1200
5:45 p.m.	WKJC 1210	WFBR 1270	WELLS 1490	WELL 1420	WBT 1080 ²	WGAR 1450	WLW 700 ⁵
CRCO 880	WMB0 1200	WFDF 1310	WJVS 1460	WEEI 590 ²	9:30 p.m.	WSAR 1450	WNAC 1230
WCMI 1310	WMMN 890	WFIL 560	WOKO 1430	WFBC 1300	CMJK 780 ⁵	10:15 p.m.	WOR 710
WEHC 1420	WNAC 1230	WHAM 1150	7:00 p.m.	WGBI 880 ⁶	WBTM 1370	CKLW 1030	WPRO 630
WIOD 1307 ⁷	WPRO 630	WJBK 1500	CMJA 1010	7:55 p.m.	WEXL 1310	10:30 p.m.	WTAG 580
WKOK 1210	WSOC 1210	WKBC 1500	CMKM 1120	WBNS 1430	WMBR 1370	WBIG 1440	WTIC 1040
WMAZ 1180	WSVA 550	WKRC 550	WAAB 1410	8:00 p.m.	WBCA 570	WBNS 1430	11:05 p.m.
WNBH 1310	6:05 p.m.	WNEW 1250	WKJC 1200	WKJC 1200	9:45 p.m.	WOL 1310	WEEI 590
WBRE 1310	WWJ 920	WOPI 1500	WLBZ 620	WWVA 1160	WAAB 1410	WSPD 1340	11:10 p.m.
WBT 1080	6:15 p.m.	WOR 710	WTBO 800	8:10 p.m.	WPAR 1420	WWSW1500 ⁵	Blue Net
5:55 p.m.	WGH 1310	WSAI 1330 ⁸	WRDO 1370	WIBM 1370	WSYR 570	10:45 p.m.	11:15 p.m.
CKLW 1030	WJAS 1290	WTAG 580	7:15 p.m.	WIP 610	10:00 p.m.	CHRC 580	CBS Sun.
WBNS 1430	WKBN 570	WTIC 1040	WBRR 1300	8:30 p.m.	WBRE 1310	WIP 610	11:20 p.m.
WEEI 590	WPAR 1420	6:35 p.m.	WBIG 1440	CKCO 1010	WCKY 1490	11:00 p.m.	WICC 600
WJVS 1460	WRVA 1110	WEAN 780	WBRE 1310	WCKY1490 ²	WCSC 1360	CF06 600 ⁵	11:30 p.m.
WMBR 1370	WSAR 1450	WFTF 680	WBRE 1310	WFDF 1310	WGBI 880	CFRB 690	Red Net²
6:00 p.m.	WSPD 1340	6:40 p.m.	WIBX 1200	9:00 p.m.	WIS 1010	CRCK 1050	WHK 1390
CJIC 890	WWSW1500 ⁵	WIOD 1300 ⁸	WNEW 1250	CKOC 1120	WJR 750	WBEN 900	WOR 710
KDKA 980	6:20 p.m.	WIP 610	WMPG 1200	CMCD 960	WKBZ 1500	WCAE 1220	WTIC 1040 ²
WAGM1420 ¹	WMCA 570	6:45 p.m.	WNYC 1100	WFBC 1300	WKJC 1200	WEEI 590 ²	Midn't.
WBEN 900	WEEI 590	CFCH 930	WNYB 1500	WGBI 880	WKRC 550	WFBZ 1270	WCAU 1170
WCAE 1220	6:30 p.m.	WDAE 1220	WTFI 1450	WJBK 1500	WLW 700	WFIL 560	WCKY 1490

CENTRAL STANDARD TIME

5:30 a.m.	KFNF 890	9:05 a.m.	KGDE 1200	WJTL 1370	WSEA 1410	WISN 1310	WTMV 1500
6:15 a.m.	KARK 890	WILL 890	WBEO 1310	WMBD 1440	1:00 p.m.	WLBC 1120	5:15 p.m.
KFEQ 680	KFAB 770	9:15 a.m.	WIND 560 ²	WOC 1370	CKY 960	WGSN 1310	WCCO 810
WBAP 800	KFFO 1310	KARK 890	KFEQ 680	WSIX 1210	KCRC 1360	WTMV 1500	WMC 780
WFAA 800	KGFW 1310	KFAB 770	10:45 a.m.	WMTV 1500	KFOR 1210	3:05 p.m.	5:20 p.m.
6:30 a.m.	WDAY 940	KFEQ 680	WKBU 1500	WTRC 1310	KGKL 1370	KFN ⁹ 890	KGGF 1010
KASA 1210	WFBM 1230	KPAC 1260	11:00 a.m.	XEWZ 1150	KRNT 1320	3:15 p.m.	5:30 p.m.
KMBC 950	WJJD 1130	KSTP 1460	KFJZ 1370	12:15 p.m.	WCBS 1420	WGST 890	CBS
WHO 1000	WJTL 1370	WLBC 1310	KFN ⁹ 890	KGFF 1010	WDD 1280	3:30 p.m.	Red & Blue
6:45 a.m.	WKBB 1500	WMBD 1440	KSTP 1460	WCLB 1310	WMT 600	KSTP 1460	KFAB 770
KWBZ 1420	WKBB 1380	9:30 a.m.	WHBU 1210	WFBM 1230	WSM 650	WGBF 630	KFJB 1200
7:00 a.m.	WMBH 1420	KFIZ 1420	WGSN 1310	WHBY 1200	WTAX 1210	WHO 1000	KPAC 1260
KABR 1420	WMFN 1210	KFYO 1310	WTMV 1500	WKBB 1500	WTMJ 620	3:45 p.m.	WOAI 1190
KFJZ 1370	WTMV 1500	KTWS 1450	11:15 a.m.	WROK 1410	WTMV 1500	KABR 1420	5:35 p.m.
KRNT 1320	8:15 a.m.	KTBO 560	WDAF 610	WOWO 1160	1:15 p.m.	KOIL 1260	KVOO 1140 ^d
WCCO 810	KFJM 1370	WJBC 1200	11:25 a.m.	12:20 p.m.	KPAC 1260	WKUW 1500	WENR 870
WIBW 580	KGKF 1500	WJJD 1130	WDAY 940	KFN ⁹ 890	KTBS 1450	WTAX 1210	5:40 p.m.
WMT 600	WAAW 660	WKBB 1500	11:30 a.m.	WRTN 1370	KWTO 560 ²	4:00 p.m.	CKY 960
WTAD 900	KASA 1210 ²	WMT 600	KFPW 1210	WTAW 1120	1:30 p.m.	KBTM 1200	5:45 p.m.
WTCN 1250	8:30 a.m.	WTRC 1310	KRNT 1320	12:25 p.m.	WLBC 1310	WHBU 1210	KFYO 1310
KSO 1430	KGKB 1500	CBS ²	KWBG 1420	KDLR 1210	WMBH 1420	WTMV 1500	WDAY 940
7:05 a.m.	KLPM 1240	9:45 a.m.	WMT 600	12:30 p.m.	1:45 p.m.	4:15 p.m.	WDSU 1250
WSGN 1310	KSD 550	KMBC 950	KSO 1430	KFEQ 680	KFDY 780	KWTO 560	WFBM 1230
7:15 a.m.	KSTP 1460	WJBL 1420 ²	11:45 a.m.	KFJM 1370	KGEX 630	WHB 860	WKEU 1500
KGFF 1010	KWBG 1420	KDLR 1210	KABR 1420	KWTO 560	WHEF 1500	WJAG 1080	WNOX 560
KPAC 1260	WCCO 810	10:00 a.m.	KASA 1210	WAGF 1370	2:00 p.m.	4:30 p.m.	WTRC 1310
WHO 1000	WGPC 1420	KFVS 1210	KFAB 770	WIBA 1280	WHBU 1210	KFAB 770	5:50 p.m.
WKEU 1500	WJBO 1420	KLNC 1290	KGKB 1500	WJAG 1060	WJJD 1130	KGEX 630	KSTP 1460
7:20 a.m.	WFAA 1410	KVOS 1210	KVOO 1140	WKBH1380 ²	WJTL 1370	KMBC 950	KFJM 1370
WHB 860	WTAQ 1330	WCCO 810	WBAA 890	WKEU 1500	WTMV 1500	KSTP 1460	5:55 p.m.
WOI 640	8:45 a.m.	WGST 890	WCCO 810	WNBR 1430	2:15 p.m.	WDAF 610	WMT 600
7:30 a.m.	KNOW 1500	WHBU 1210	WDSU 1250	12:35 p.m.	KWBG 1420	WOC 1370	6:00 p.m.
KFRO 1370	WSGN 1310	WIND 560	WIND 560	12:45 p.m.	WBAP 800	WTMJ 620	KARK 890
KGFB 930	9:00 a.m.	WJTL 1370	11:55 a.m.	WJMS 1420	WFAA 800	5:00 p.m.	KFEQ 680
KMBC 950	Red & Blue	WMBH 1420	KFAB 770	KBTM 1200	WKEU 1500	KFEQ 680	KVOL 1310
KSTP 1460	CBS	WROK 1410	WOAI 1190	KFIZ 1420	WNAD1010 ²	KFIZ 1420	KWTO 560 ²
KWTO 560	KGCA 1270	WTAX 1210	Noon	KFOR 1370	2:20 p.m.	KFJZ 1370	WHBY 1200
WIBA 1280	KGFB 1340	WTMV 1500	CJGX 630	KFYO 1310	WCCO 810	KFXR 1310	WJBO 1420
WDSU 1250	WDAF 610	10:05 a.m.	KARK 890	KLPM 1240	2:25 p.m.	KOMA1480 ⁵	WTAQ 1330
XEFO 940	WGST 890	KLPM 1240	KGDY 1340	KRGV 1260	WTCN 1250	KSOO 1110	WTAX 1210
7:40 a.m.	WHBY 1210	10:15 a.m.	KGEX 630	KSTP 1460	2:30 p.m.	WHBU 1210	WTMV 1500
KFEQ 680	WHBY 1210	CJGX 630	KGNF 1430	WBAA 890 ²	KSTP 1460	WHO 1000 ⁹	6:10 p.m.
7:45 a.m.	WIND 560	WBOW 1310	KMBC 950	WBOW 1310	KVOS 1210	WIRE 1400	KLPM 1240
KRGV 1260	WKEU 1500	WDOD 1280	KVOL 1310	WCCO 810	WDAY 940	WJJD 1130	6:15 p.m.
KVOO 1140	WNOX 560	WJMS 1420	WGPC 1420	WHO 1000	WIND 560	WJTL 1370	KFNF 890
WNBR 1430	WOWO 1160	10:25 a.m.	WHB 860	WKBH 1380	3:00 p.m.	WMBD 1440	KFOR 1370
WOAI 1190	WTMJ 620	WTCN 1250	WHBU 1210	WLBC 1310	KARK 890	WOI 640	KFRU 630
7:50 a.m.	WTMV 1500	10:30 a.m.	WISN 1120	WMPN 1210	KFJB 1200	WSM 650	KFVS 1210
KABR 1420	WIND 560 ²	KFOR 1210	WJJD 1130	WNOX 560	WHBU 1210	WTCN 1250	WLBC 1310

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 WNBR 1430 WSGN 1310 6:45 p.m. KRGV 1260 WKBH 1380 WSFA 1410	6:55 p.m. KGDE 1200 7:00 p.m. KGKB 1500 KWBG 1420 WAVE 940 WBOW 1310 WJTL 1370 WKBB 1500 WMBB 1420 WNAX 570 WTMV 1500 7:15 p.m. KFNF 890 WJMS 1420	7:30 p.m. WIND 560 7:45 p.m. WRTN 1370 WTAD 900 8:00 p.m. KARK 890 KPZ 1420 KVOO 1140 ² WGN 720 WBU 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 KTBS 1450 ² WDOD 1280 WGBF 630 ^c	WIBW 580 WOA1 1190 ² 9:45 p.m. WROK 1410 10:00 p.m. KPRC 920 KVOO 1140 ² WDAY 940 WENR 870 ⁵ WGST 890 WHBU 1210 WIBA 1280 WIRE 1400 WMBD 1440 WNBR 1430 WOA1 1190	WTMJ 620 WTMV 1500 XENT 910 XEWZ 1150 10:05 p.m. WCCO 810 10:10 p.m. CBS ² 10:15 p.m. Blue Net 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. KFKA 880 7:45 a.m. KGKY 1500 KLZ 560 8:00 a.m. Red & Blue CBS Net ² CHWC 1010 KFEL 920 KVOR 1270 8:15 a.m. CFRN 1260 KGV0 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 10:00 a.m. KOY 1390 10:30 a.m. KDFN 1440	11:00 a.m. XETB 1310 11:45 a.m. KICA 1370 KLZ 560 Noon KFKA 880 KGEZ 1310 1:00 p.m. CFCN 1030 KVOR 1270 2:00 p.m. KICA 1370 KDYL 1290 KSUN 1200	12:20 p.m. KOY 1390 12:25 p.m. KDFN 1440 12:30 p.m. KFKA 880 KGEZ 1310 1:00 p.m. CFCN 1030 KVOR 1270 2:00 p.m. KICA 1370 KDYL 1290 KSUN 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 KFEL 920 KICA 1370 4:30 p.m. Red & Blue CBS Net KIDW 1420	5:00 p.m. KVOR 1270 5:30 p.m. KDFN 1440 6:00 p.m. KFKA 880 KOY 1390 6:15 p.m. CHAB 1200 KGEZ 1310 KGV0 1260 6:30 p.m. KGKX 1310 ⁹ 6:45 p.m. KDFN 1440	7:00 p.m. KFEL 920 8:00 p.m. CHWC 1010 CJCJ 690 CBS Net ² XEFV 1210 8:15 p.m. KICA 1370 KLZ 560 8:30 p.m. KDYL 1290 8:45 p.m. XEAF 990 9:00 p.m. KTAR 620	10:30 p.m. CJRM 540 KTSM 1310 KVOR 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. KRLC 1420 CBS Net CBS Net Red & Blue KGDM 1100 KRQW 1010 KRSC 1120 KUJ 1370	7:15 a.m. KERN 1370 KFBC 1490 KMJ 580 7:30 a.m. CBS Net ² 7:45 a.m. KFPY 890 KRKD 1120 8:00 a.m. CBS Net KIT 1310 KRSC 1120 KUJ 1370 8:15 a.m. KROW 930	8:30 p.m. CRCV 1100 KGFJ 1200 KXR0 1310 8:45 a.m. KOIN 940 KKWJ 1040 9:00 a.m. KFRC 610 KOOS 1390 KRSC 1120 KRWG 1200 9:15 a.m. KOL 1270	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 KOIN 940 11:30 a.m. CJAT 910 KRKD 1120 11:45 a.m. 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 W6XAI 1550 12:20 p.m. KIT 1310 12:30 p.m. KIEFM 1210 KFPY 890 KOOS 1390 KPQ 1500 KRKC 1420 KTRB 740 KXRO 1310	12:45 p.m. CKOV 630 KFMC 1210 1:00 p.m. KGFJ 1200 KOIN 940 KRSC 1120 KJBS 1070 ² 1:30 p.m. KMPX 710 1:45 p.m. CHWK 780 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 KGKO KMBC KRLL KRNT
KSCJ KTRH KTSB KVOR KWKH
WAAB WABC WACO WBNS WBRC
WBT WCAO WCCO WHAS WIBW
WJAS WJW WKBW WKRC WMBD
WOC WREC

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 WHK 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 WHEC 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
KOMA KRLL KRNT KSCJ KTUL
KWKH WABC WADC WBBM WBNS
WCCO WDRC WFBM WHEC WIBX
WICC WISN WJSV WKBW WKBW
WMAS WMBG WNAC WOC WREC
WSMK WSPD WWVA

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
WWVA

R — Amos 'n' Andy
CRCT KSD KYW WBEN WCAE
WCSH WDAF WEEI WFBW WGY
WJAR WLW WRC WTAG WTAM
WTIC WWJ

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

R — Uncle Ezra's Radio Station
KYW WBEN WCAE WCSH WDAF
WEAF WEEI WFBW WGY WHIO
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 WDRC
WEAN WFBL WFBM WGR WHAS
WHK 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 KFRC
KGB KHJ KMJ KOKN KOL KSL
KYI KWG

ED-8:00 p.m., E-7:00, C-6:00, M-5:00
C — Guy Lombardo and Orchestra
KLRA KWKH WABC WBIG WBT
WCAI WCAU WCHS WCSC WDBJ
WDNC WDOO WDRC WEAN WFBM
WFBL WGR WHEC WHP WIBX
WICC WJAS WJSV WLAC WLIZ
WMAS WMBG WNAC WNBW WNOX
WOKO WORC WPG WREC WSJS
WWL WWVA

R — Hammerstein's Music Hall
KBD KERN KFBK KFPY KFRC
WDAF WDAF WEEI WFBW WGY
WHIO WHIO WJAR WMAQ WOW
WRC WSAI WTAG WTAM WTIC
WWJ

B — Fibber McGee and Molly
KDKA KDYL KFI KFSD KFYP
KGW KHQ KOA KOIL KOMO KPO
KPRC KSO KSTP KTBS KVOO
WAVE WBAL WBZ WBZA WCKY
WDAY WEEC WFAA WFIL WGAR
WHAM WIBA WIRE WJDX WJZ
WKY WLS WMAL WMC WMT
WOAI 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 WHEC WHK WJAS
WJR WJSV WKRC WMAS WNAC
WOKO WORC WSPD

R — Voice of Firestone
CFRC CRCT KFYP KFRC KSD
KSTP KTBS KVOO KYW WAVE
WBEN WCAE WCSH WDAF WDAY
WEAF WEEC WEEI WFAA WFBW
WFLA WGY WHO WHIO WIBA
WIOD WIRE WIS WJAR WJAX
WJDX WKY WMAQ WMC WOAI
WOW WPTF WRC WRVA WSB
WSM WSMB WSOC WTAG WTAM
WTAR WTIC WTMJ WWJ WWNC

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 KFRC KGB KHJ
KLRA KLZ KMBC KMJ KMOX
KOKN KOL KOMA KRLL KRNT
KSL KTRH KTSB KTUL KVI KWG
WABC WADC WBBM WBNS WBRC
WBT WCAO WCAU WCCO WDAE
WDBJ WDRC WEAN WFBL WFBM
WGST WHAS WHEC WHK WICC
WISN WJAS WJR WJSV WKBW
WKRC WLAC WNAC WNAK WOKO
WORC WQAM WREC WSPD WWL

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

B — Sinclair Greater Minstrels
KDKA KDYL KFYP KOA KOIL
KPRC KSO KSTP KTBS KTHS
KVOO KWK WBAL WBZ WBZA
WDAY WEEC WFAA WFLA WGAR
WHAM WIBA WIOD WIS WJAX
WJDX WJZ WKY WLS WLW WMAL
WMC WMT WOAI WPTF WREN
WRVA WSB WSM WSMB WSOC
WSUN WSYR WTAR WTMJ WWNC
WXYZ

ED-9:30 p.m., E-8:30, C-7:30, M-6:30
R — Sigmund Romberg; Barrymore
KDYL KFI KFYP KGW KHQ
KOA KOMO KPO KPRC KSD KSTP
KTBS KTHS KVOO KYW WBEN
WCAE WCSH WDAF WDAY WEAF
WEBC WEEI WFAA WFBW WGY
WHO WIBA WJAR WKY WLW
WMAQ WOAI 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
WBEN WCAE WCSH WDAF WEAF
WEEI WFBW WFLA WGY WHO
WIOD WIS WJAR WJAX WKY
WMAQ WMC WOAI WOW WPTF
WRC WRVA WSAI WSB WSM
WTAG WTAM WTAR WTIC WWJ
WWNC

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 KFRC KGB KHJ KLZ KMJ
KMOX KOKN KOL KRLL KSL KYI
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 KTSB KVOR
KWKH WAAB WABC WACO WADC
WALA WBIG WBNS WBRC WBT
WCAO WCAU WDAE WDBJ WDBO
WDNC WDOD WDRC WFBL WFBM
WFEA WGR WHAS WHEC WHP
WIBW WIBX WISN WJAS WJSV
WKBN WKRC WLAC WLWB WMAS
WMBD WMBR WMNN WNAX
WNOX WOC WOKO WORC WPG
WQAM WREC WSBT WSJS WSMK
WSPD WTWC

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

C — Myrt and Marge
KDB KERN KFAB KFBK KFPY
KFCB KGB KHJ KLRA KLZ KMBC
KMJ KMX KOIN KOL KOMA
KRLD KSL KTRH KVI KWG WALA
WBMM WBRC WOC WFBM WGST
WHAS WLAC WREC WSFA WWL

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

ED-11:15 p.m., E-10:15, C-9:15, M-8:15
C — Singing Sam
KDB KERN KFBK KFPY KFCR
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
WFBM WFEA WGST WHAS WHEC
WHK WIBX WICC WJAS WJR
WJSV WKBN WKBW WKRC WLAC
WLWB WMAS WMBG WMBR WNOX
WOKO WORC WQAM WREC WSBT
WSJS WSMK WSPD WTWC

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

R — Voice of Firestone
KDYL KFI KFSD EGHL KGIR
KGU KGW KHQ KOA KOMO KPO
KTRR

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
KFB KHG KLRA KLZ KMBC
KOMA KRLD KRNT KSCJ KTRH
KTSB KVOR KWKH WABC WACO
WALA WBMM WBIG WBRC WCAO
WCAU WDAE WDBJ WDBO WDNC
WDOD WDRC WEAN WESG WFBL
WFEA WGR WGST WHEC WHP
WIBX WJR WKBN WLAC WLWB
WMAS WMBD WMBG WMBR
WNOX WOC WOKO WORC WQAM
WREC WSBT WSJS WSMK WSPD
WTWC WWL

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

ED-6:45 p.m., E-5:45, C-4:45, M-3:45
C — Lowell Thomas, See Monday
C — Renfrew of the Mounted
KFAB KFHL KLRA KMBC KMOX
KOMA KRLD KRNT KSCJ KTUL
KWKH WABC WADC WBBM
WBNS WCOO WDRC WFBM WHEC
WIBX WICC WISN WJSV WKBN
WKBW WMAS 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 WBA
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 WDOD WDRC WEAN
WFBL WFEA WGR WGST WIBX
WICC WJSV WLWB WMAS WMBG
WMBR WNAC WNBFW WNOX WOKO
WORC WQAM WTWC

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

ED-7:15 p.m., E-6:15, C-5:15, M-4:15
C — Kate Smith
KFAB KMBC KMOX KRLD KRNT
KTRH WABC WADC WBBM WBNS
WBRC WBT WCAO WCAU WCOO
WDAE WDRC WEAN WFBL WFBM
WGR WGST WHAS WHK WISN
WJAS WJR WJSV WKBN WKRC
WLWB WMAS 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 KFCR
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
KPYR KPRC KSD KSTP KTBS
KVOO KYW WAVE WBAP WBN
WCAE WCSH WDAF WDAY WFAF
WIBC WEEI WFBP WFLA WGY
WHO WIBA WIOD WIRE WIS
WJAR WJAX WJDX WKY WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSB WSM WSMB WSOC
WTAG WTAM WTAR WTIC WTMJ
WWJ WWNC

B — Eno Crime Clues
KDKA KOIL KSO WBAL WBZ
WBZA WFIL WGAR WHAM WJZ
WLS WLW WMAL WMT WREN
WSYR 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
KTSB KTUL KVI KWG WABC
WACO WBBM WBNS WBRC WBT
WCAO WCAU WCOO WDAE WDBJ
WDRC WEAN WFBL WFBM WGR
WGST WHAS WHEC WHK WICC
WISN WJAS WJR WJSV WKRC
WLAC WNAC WNAX WOKO WORO
WQAM WREC WSPD WWL

R — Wayne King and Orchestra
KPYR KPRC KSD KSTP KTBS
KVOO KYW WAVE WBAP WBN
WCAE WCSH WDAF WDAY WFAF
WGBI WGY WHO WBA WIRE
WJAR WJDX WKY WMAQ WMC
WOAI WOW WRC WSAI WSB WSMB
WTAG WTAM WTAR WTIC WTMJ
WWJ

B — Edgar Guest, Welcome Valley
KDKA KOIL KSO KWK WBAL WBZ
WBZA WFIL WGAR WHAM WJZ
WLS WLW WMAL WMT WREN
WSYR 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 KTSB KTUL KWKH WABC
WACO WADC WALA WBMM WBIG
WBNS WBRC WBT WCAO WCAU
WCOO WDAE WDBJ WDBO WDNC
WDOD WDRC WEAN WFBL WFBM
WFEA WGST WHAS WHEC WHK
WHP WIBW WIBX WICC WJAS
WJR WJSV WKBN WKBW WKRC
WLAC WLWB WMAS WMBD WMBG
WMBR WNAC WNAX WNOX WOKO
WORC WOW WPG WQAM WREC
WSBT WSFA WSJS WSPD WTWC
WWL

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

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

ED-9:30 p.m., E-8:30, C-7:30, M-6:30
C — Fred Waring's Pennsylvanians
CFRB CKAC KFAB KFH KGKO
KLRA KLZ KMBC KMOX KOH
KOMA KRLD KSCJ KSL KTRH
KTSB KTUL KVOR KWKH WABC
WACO WADC WALA WBMM WBIG
WBNS WBRC WBT WCAO WCAU
WCOO WCAU WCOO WDAE WDBJ
WDBO WDNC WDOD WDRC WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBW WKBN WKBW WKRC
WLAC WLWB WMAS WMBD WMBR
WNAC WNAX WNBFW WNOX WOC

TUESDAY (Continued)

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

R — Texaco Fire Chief

KDYL KFI KFSD KFYR KGH
KGR KGW KHQ KOA KOMO KPO
KPRC KSD KSTP KTAR KTBS
KTHS KVOO KYW WAVE WBAP
WBEN WCAE WCHS WDAF WDAY
WEAF WEBC WEEI WFBR WFLA
WGY WHO WHIO WIBA WIOD
WIRE WIS WJAR WJAX WJDX
WKY WLW WMAQ WMC WOA
WOW WPTF WRC WRVA WSB
WSM WSMB WSOC WTAG WTAM
WTAR WTIC 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 KRLD KRNT KSL
KTRH KTSa KTUL KWKH WABC
WACO WADC WBBM WBRW WBT
WCAO WCAU WCCO WDAE WDBJ
WDOB WEAN WFBL WFBR WGST
WHAS WHBC WHK WHJ WJAS
WJW WJWB WKBC WLAC WMBG
WMBR WNAC WNOX 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 WCKY WCHS
WDAF WDAY WEAF WEBC WEEI
WFBR WFLA WGY WHO WHIO
WIBA WIOD WIRE WIS WJAR
WJAX WJDX WKY WMAQ WMC
WOAI WOW WPTF WRC WRVA
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 — 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 WCKY
WCHS WDAF WEAF WEEI WFAA
WFBR WGY WJAR WJDX WKY
WMOAI WOW WRC WSB WSM
WSMB WTAG WTAM WTIC 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 WHBC
WHK WIBX WJAS WJWB WKWB
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 WBNS
WBRW WBT WCAU WCCO WDAE
WDBJ WDOB WDNC WDOB WDRS
WEAN WFBL WFBM WFEA WGST
WHAS WHBC WHK WIBX WICW
WISN WJAS WJR WJWB WKWB
WKRC WLAC WLWB WMAS WMBD
WMBG WMBR WNAX WNOX WOC
WOKO WORC WQAM WREB WSBT
WSB WSMK WSPD WTIC WTMJ

C — Walter O'Keefe; Glen Gray

KDB KERN KFBK KFPY KFRS
KGB KHJ KLZ KMJ KOH KOIN
KOL KSL KVI KVOR KWG

R — Leo Reisman and Orchestra
KDYL KFI KFSD KGH KGR
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 KFRS
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.

C — 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

C — 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 WHBC
WHK WJAS WJWB WJWB WNOX
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 KFAB KFBK KFPY
KFRS KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRLD KRNT
KSL KVI KWG WABC WACO
WBBM WCAO WCAU WCCO WDRS
WEAN WFBL WFBM WGR WGST
WHAS WHK WJAS WJR WJWB
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 WFBR
WFLA WGY WHO WHIO WIBA
WIOD WIRE WIS WJAR WJAX
WJDX WKY WLW WMAQ WMC
WOAI WOW WPTF WRC WRVA
WSB WSM WSMB WTAG WTAM
WTIC 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 KRLD KRNT
KSCJ KTRH KTSa KTUL KWKH
WABC WADC WBBM WBNS WBRW
WBT WCAO WCAU WCCO WDAE
WDBJ WDOB WDRS WEAN WFBL
WFBM WFEA WGR WGST WHAS
WHBC WHK WHP WIBX WICW
WICW WJAS WJR WJWB WKRC
WLAC WLWB WMAS 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 KFAB KFBK KFH
KFPY KFRS KGB KGKO KGMB
KHJ KLRA KLZ KMBC KMJ
KMOX KOH KOIN KOL KOMA
KRLD KRNT KSCJ KSL KTRH
KTSa KTUL KVI KVOR KWG
KWKH WABC WACO WADC WALA
WBBM WBIG WBNS WBRW WBT
WCAO WCAU WCCO WDAE WDBJ
WDOB WDRS WDOB WDRS
WEAN WFBL WFBM WFEA WGST
WHAS WHBC WHK WHP WIBX
WIBX WICW WISN WJAS WJR
WJWB WKBB WKWB WKRC WLAC
WLWB WMAS WMBD WMBG
WMBR WNAC WNAX WNBW WNOX
WOC WOKO WORC WOWO 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 WFBR WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOA WOV WPTF WRC WSB
WSM WSMB WSOC WTAG WTAM
WTAR WTIC WTMJ WWJ WWNC

B — Corn Cob Pipe Club

KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO KSO KWK WBAL
WBZ WBZA WCKY WFLW WGAR
WHAM WHIO WIRE WJZ WLS
WMAL WMT WREN WRVA WSRW
WXXZ

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

C — Ray Noble and Orchestra

CFRB KDB KERN KFAB KFBK
KFH KFPY KFRS KGB KGKO KHJ
KLRA KLZ KMBC KMJ KMOX
KOH KOIN KOL KOMA KRLD
KRNT KSCJ KSL KTRH KTSa
KTUL KVI KWG KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRW WBT WCAO WCAU
WCCO WCOA WDAE WDBJ WDOB
WDOB WDRS WEAN WFBL WFBM
WFEA WGST WHAS WHBC WHK
WHP WIBX WICW WJAS WJR
WJWB WKBB WKWB WKRC
WLAC WLWB WMBD WMBG
WMBR WNAC WNOX WOC WOKO
WORC WOWO WPG WQAM WREC
WSFA WSPD WTIC 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
KRLD KRNT KSL KTRH KTSa
KTUL KWKH WAAB WABC WBBM
WBNS WBRW WBT WCAO WCAU
WDBL WCCO WDAE WDBJ WDOB
WDRS WEAN WFBL WFBM WGST
WHAS WHBC WHK WJAS WJR
WJWB WKBB WKWB WKRC WLAC
WMBG WMBR WOKO WORC WOWO
WQAM WREC WTIC 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 KFRS

Wednesday (Continued)

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

CKAC KLRA WAAB WABC WADC
WALA WBRG WBT WCAO WCAU
WDAE WDBJ WDBO WDNB 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 KFBC KPFP 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

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 — Vocals by Verrill

KFH KGKO KLRA KMBC KMOX
KOMA KRLD KRNT KSCJ KTRH
KTSA KFOR KWKH WAAB WABC
WALA WBIG WBNS WBRG WBT
WCAO WCAU WDAE WDBO WDNB
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 KFBC KPFP
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRLD
KRNT KSL KTRH KTSA KVI KVG
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

CFCF CRCT KDYL KFI KFYP
KGW KHQ KOA KOMO KPO KSD
KSTP KTAR KYW WBBN WCAE
WCSH WDAF WDAY WEAF WEBC

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

B — Pittsburgh Symphony

KDKA KOIL KPRC KSO KTBS KWK
WAPI WAVE WBAL WBAP WBZ
WBZA WCKY WENR WFAA WFIL
WFLA WGAR WHAM WIOD WIRE
WIS WJAX WJDX WJZ WKY WLS
WMAL WMC WOAI WPTF WREN
WRVA WSB WSM WSMB WSOC
WSUN WSYR WTAR WWNC 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 KFYP KGHL
KGRG KGW KHQ KOA KOMO KPO
KPRC KSD KSTP KTAR KTBS
KYW WAPI WAVE WBAP WBEN
WCAE WCSH WDAF WDAY WEAF
WEBC WEEI WFBR WFLA WGY
WHO WHIO WIBA WIOD WIRE WIS
WJAR WJAX WJDX WKY WMAQ
WMC WOAI WOV WPTF WRC
WRVA WSAI WSB WSM WSMB
WSOC WTAG WTAM WTAR WTIC
WTMJ WWJ WWNC

B — Death Valley Days

KDKA KOIL KSO KWK WBAL WBZ
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 KFBC KFH
KFYP KFRC KGB KGKO KHJ
KLRA KLZ KMBC KMJ KMOX
KOIN KOL KOMA KRLD KRNT
KSCJ KSL KTRH KTSA KTUL KVI
KFOR KGW KWKH WABC WCAO
WADC WALA WBBM WBIG WBNS
WBRG WBT WCAO WCAU WCCO
WDAE WDBJ WDBO WDNB WDDO
WDRG WEAN WFBL WFBM WFEA
WGST WHAS WHEC WHK WHP
WLWB WLX WICC WISN WJAS
WJR WJSV WKBW WKBW WKRC
WLAC WLWB WMAS WMBD WMBG
WMBR WMNN WNAC WNAX
WNBF WNOX WOC WOKO WORC
WQAM WREC WSFA 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 KFBC KFH
KFYP KFRC KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOL
KRLD KRNT KSL KTRH KTSA
KTUL KVI KVG WABC WBBM
WBNS WBRG 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

CFCF CRCT KDYL KFI KFYP
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KTBS KTHS
KVOO KYW WAVE WBAP WBEN
WCAE WCSH WDAF WDAY WEAF
WEBC WEEI WFBR WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI WOV WPTF WRC
WRVA 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 — 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 KFBC KPFP 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 WMAS WOKO WORC
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

CPRB CKAC KLRA WAAB WABC
WADC WALA WBNS WBRG WBT
WCAO WCAU WDAE WDBJ WDBO
WDNB WDDO WDRG WEAN WFBL
WFBM WFEA WGST WHAS WHEC
WHK WIBX WICC WJAS WJR
WJSV WKBW WKBW WKRC WLAC
WLWB WMAS 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 WBRG
WBT WCAO WCAU WCCO WDRG
WEAN WFBL WFBM WGR WGST
WHAS WHK WJAS WJR WJSV
WKRC WMAS WMBG WNAC
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 KFH 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 WMAS WMBD WNAC
WOC WOKO WORC WSPD

R — Cities Service Concert

CRCT KOA KPRC KSD KSTP KTBS
KTHS KYW WBEN WCAE WCSH
WDAF WEAF WEBC WEEI WFAA
WFBM WGY WHO WHIO WIOD
WJAR WKY WMAQ WOAI WOV

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 KFKB KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRNT
KSL KVI KWG WABC WADC
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDCR WEAN WFBL
WFBM 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
KFBC KFH KFPY KFRC KGB KHJ
KLRA KLZ KMBC KMJ KMOX
KOIN KOL KOMA KRND KRNT
KSCJ KSL KTRH KTSR KTUL KVI
KVOR KWG KWKH WABC WADC
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDAE WDBJ WDBO
WDCR WEAN WFBL WFBM WFEA
WGST WHAS WHEC 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 Munn; Bernice Claire

KSD KYW WBEN WCAE WCSH
WDAF WEA 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 WEA WEEI WFBR
WGY WHO WHIO WJAR WMAQ
WOW WRC WTAG WTAM WTIC
WWJ

B — Fred Waring's Pennsylvanians

KDKA KDYL KFYR KOA KOIL
KPK KSO KSTP KTBS KTHS
KWK WAPI WAVE WBAL WBZ
WBZA WCKY WDAY WEBC WENR
WFAA WFIL WFLA WGAR WHAM
WHIO WIBA WIOD WIRE WIS
WJAX WJDX WJZ WKY WMAL
WMC WMT WOAI WOOD WPTF
WREN WRVA WSB WSM WSMB
WSOC WSYR WTAR WTMJ WWNC
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 KV00 KYW WBEN WCAE
WCSH WDAF WEA WEEI WFAA
WFBR WFLA WGY WHO

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

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 WDOB WDCR WFBL
WFEA WGST WHEC WHK WIBX
WISN WJAS WJR WKBW WLAC
WLZB WMAS WMBD WMBG
WMBR WNAX WNOX WOC WOKO
WORC WPG WQAM WREC WSBT
WSJS WSMK WSPD WTOC

C — Lazy Dan, Minstrel Man

KDB KERN KFKB KFPY KFRC
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 WDOB WDCR WEAN WFBL
WFBM WFEA WGST WHAS WHEC
WHK WIBX WICC WJAS WJR
WJSV WKBW WKRC WLAC WLZB
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

B — Fred Waring's Pennsylvanians

KFI KFSD KQHL 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 KRDL KSCJ KSL
KTRH KTSR KVOR KWKH WAAB
WABC WACO WADC WALA WBBM
WBIG WBRC WBT WCAO WCCO
WDAE WDBJ WDBO WDNC WDOB
WESG WFBL WFBM WGST WHEC
WHK WIBW WIBX WISN WJAS
WJR WJSV WKBW WKRC WLAC
WLZB WMBG WMBR WNOX WOKO
WORC WQAM WREC WSBT WSJS
WSMK WSPD WTOC

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 WBIG WBNS WBRE
WBT WCAO WCAU WCBW WDAE
WDBJ WDBO WDCR WGEN WFBG
WFBL WGBI WGR WGST WHEC
WHK WHP WIBX WICC WJAS
WMAS WMBG WMBR WNAC

WNFB WOKO WORC WORW WQAM
WRAX WWSV 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 CKOL KFAB KLZ KMBC
KMOX KOMA KRDL KRNT KSL
KTRH KTSR KTUL KWKH WABC
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDAE WDBJ WDBO
WDCR WGEN WFBL WFBM WGR
WGST WHAS WHEC 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 KQHL
KGIR KGW KHQ KOA KOMO KPO
KSD KSTP KTAR KYW WBEN
WCAE WCSH WDAF WDAY WEA
WEBC WEEI WFBR WGY WIBA
WJAR WLW WMAQ WOW WRC
WTAG WTAM WTIC WTMJ WWJ

B — National Barn Dance

KDKA KOIL KPRC KSO KTBS
KTHS KV00 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 KFI KGKO KLRA
KLZ KMBC KMOX KOMA KSCJ
KTRH KTSR KVOR KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WDAE WDBJ WDBO WDCR
WDOB WDCR WEAN WFBL WFBM
WFEA WHAS WHEC WHK WIBW
WIBX WICC WISN WJAS WJR
WJSV WKBW WKRC WLAC WLZB
WMAS WMBD WMBG WMBR
WNAC WNOX WOC WOKO WORC
WPG WQAM WREC WSBT WSJS
WSMK WSPD WTOC

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 WCSH WDAF
WDAY WEA WMBG WEEI WFBR
WGY WHIO WIBA WIRE WJAR
WJDX WMAQ WMC 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 KRDL
KSCJ KSL KTRH KTSR KVOR
KWKH WABC WACO WADC WALA
WBBM WBNS WBRC WBT WACO
WCAU WCCO WDAE WDBJ WDBO
WDNC WDOB WDCR WFBL WFBM
WFEA WGST WHAS WHEC WHK
WIBW 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 WTOC

B — National Barn Dance

KDYL KFI KFSD KFYR KQHL
KGIR KGU KGW KHQ KOA KOMO

SATURDAY (Continued)

KPO KSTP KTRAR WDAY WEEB
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 KTSB KTOR KWKH WABC
WACO WADC WALA WBNS WBRB
WBT WCAO WCOA WDAE WDBJ
WDBO WDNC WDDO WDRC WEAN
WFBL WFBM WFEA WGST WHAS
WHBC WHK WIBW WJAS WICC
WJAS WJR WKWB WKRC WLAC
WLBZ WMAS WMBG WMBR WNOX
WOKO WORC WQAM WREC WSBT
WSJS WSMK WSPD WTOC

ED-12:00p.m., E-11:00, C-10:00, M-9:00
C — Ziegfeld Follies; Fannie Brice

KDB KERN KFBK KFPY KPRC
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
KTSB KWKH WACO WADC WALA
WBIG WBNS WBRB WBT WCCO
WDBO WDNC WDDO WDRC WFBL
WFBM WFEA WGST WHAS WIBW
WIBX WISN WJAS WJR WJSV
WKBN WKRC WLAC WLBZ WMAS
WMBD WMBR WNAC WNAH
WNOX WOKO WORC WQAM WREC
WSBT WSMK WSPD WTOC

R — Major Bowes' Capitol Family

CFBC CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTBS KTBS KVOO KYW
WAPI WAVE WBAP WBBN WCAE
WCSC WGSB WDAF WDAY WEAF
WIBC WEI WFAA WFBC WFTB
WFLA WGY WHO WIBA WIOD
WIS WJAR WJAX WJDX WJZ
WMAQ WMC WOAI WOV WPTF
WRC WRVA WSB WSM WSMB
WOSC WSNW WTAG WTAM WTAH
WTIC WTMJ WWJ WWNC

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

B — Radio City Music Hall
CFBC CRCT KDKA KDYL KFI
KFYR EGO KGW KHQ KOIL KOMO
KPRC KSO KVOO WAPI WBAL
WBZ WBZA WCKY WDAY WEEB
WGAR WHAM WIS WJDX WJZ
WKY WMAL WOAI WREN WSMB
WSYR WWNC

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
KTSB KTOR WABC WACO WADC
WALA WBIG WBRB WCAO WCAU
WCCO WDAE WDBJ WDBO WDRC
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 KTSB KTOR
KWKH WABC WACO WALA WBNS
WBT WCAO WCCO WDAE WDBJ
WDBO WDDO 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 WKWB WRC
WREC

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

C — Kaltenborn Edits the News
CFRB KFH KFPY KGKO KHJ
KLRA KLZ KMBC KMOX KRLD
KRNT KSCJ KSL KTRH KTSB
KFOR KWKH WAAB WABC WADC
WALA WBIG WBRB WBT WCAU
WCOO WDAE WDBJ WDBO WDNC
WDDO WDRC WEAN WESG WFBL
WGST WHAS WHK WHP WIBW
WIBX WISN WJAS WJR WKBN
WKWB 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
WBRB WBT WCAO WCAU WCCO
WDRB WEAN WFBL WFBM WHAS
WHBC WHK WJAS WJR WJSV
WKWB WKRC WLAC WNAC WOKO
WOWO WREC WWL

B — Magic Key of RCA

CFBC CRCT KDKA KDYL KFI
KFYR KGU KGW KHQ KOA KOIL
KOMO KPO KPRC KSO KSTP
KTBS KTBS KVOO KWK WAPI
WAVE WBAL WBZ WBZA WCKY
WDAY WEEB 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 WTAH
WTMJ WWNC WXYZ

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

C — Jose Manzanares 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
WKWB 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 KTSB KFOR KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRB WBT WCAO WCCO
WDAE WDBJ WDBO WDNC WDDO
WDRB WEAN WESG WFBL WFBM
WFEA WGST WHAS WHEC WHK
WIBW WIBX WICC WISN WJAS

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

B — Your English

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

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

Rev. Charles E. Coughlin
KFEL KNX KFSO 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
WORC 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 WKWB 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 WWVA

C — Jose Manzanares and Orchestra
KDB KERN KFBK KFPY KPRC
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 KFPY KPRC KGB
KGKO KHJ KLRA KLZ KMBC
KMOX KOIN KOL KOMA KRLD
KRNT KSCJ KSL KTRH KTSB
KTUL KVI KFOR KWKH WAAB
WABC WADC WBBM WBIG WBNS
WBRB WBT WCAO WCAU WCCO
WDAE WDBJ WDBO WDDO WDRB
WEAN WFBL WFBM WFEA WGR
WGST WHAS WHEC WHK WHP
WIBW WIBX WICC WISN WJAS
WJR WJSV WKBN WKRC WLAC
WLBZ WMAS WMBR WNAH WNOX
WOC WOKO WORC WPG WQAM
WREC WTOC WWL WWVA

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

C — Smiling Ed McConnell
KDB KERN KFAB KFBK KFH
KFPY KPRC KGB KHJ KLZ KMJ
KMOX KOIN KOL KRLD KRNT
KSL KVI KWG WAAB WABC
WBBM WBNS WBRB WBT WCAO
WCAU WCCO WDBJ WDRB WEAN
WFBL WHAS WHEC WHK WJAS
WJR WJSV WKWB WKRC WLAC
WWL WWVA

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 WKBW WKRC
WSPD WVVA

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
WBWM WBNS WBRC WBT WCAO
WCAU WCCO WDOD WDRC WEAN
WFBL WFBM WGR WGST WHAS
WHBC WHK WICC WJAS WJR
WJSV WKRC WLAC WNAC WOKO
WOWO WREB WSPD WWL

B — Jack Benny; Johnny Green

CFPC CRCT KDKA KFYR KOIL
KPRC KSO KSTP KTBS KVOO KWK
WAVE WBAL WBZ WBZA WDAY
WEBC WENR WFAA WFIL WFLA
WGAR WHAM WIBA WIOD WIS
WJAX WJDX WJZ WKY WLW
WMAL WMC WMT WOI 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
WHBC WHK WHP WIBX WICC
WJAS WJR WJSV WKBN WKRC
WLAC WLBY WMAS WMBR WNAC
WNEF WNOX WOKO WORC WQAM
WRFC WSBT WSFA WSJS WSMK
WSPD WTOC WTLW WVVA

R — Fireside Recitals

KSD KYW WBN WCAE WCSH
WDAF WFAE WFBW WGY WHIO
WIRE WJAR WMAQ WOW WRC
WSAI WTAG WTAM WTTIC WWJ

B — Ozzie Nelson; Robt. L. Ripley

KDKA KDYL KFI KFYR KGW
KHQ KOA KOIL KOMO KPO KPRC
KSO KSTP KTAR KVOO KWK
WBAL WBZ WBZA WCKY WDAY
WEBC 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

CFPC CRCT KSD KYW WBN
WCAE WCSH WDAF WFAE WFBW
WGY WHIO WHIO WIRE WJAR
WLW WMAQ WOAI WOOD WOW
WRC WTAG WTAM WTTIC 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 WBMM WBNS
WBRC WBT WCAO WCAU WCCO
WDOD WDRC WEAN WFBL WFBM
WGR WGST WHAS WHBC WHK

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

R — Major Bowes' Amateur Hour

CFPC CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KVOO KYW
WAVE WBN WCAE WCSH WDAF
WDAF WFAE WFBW WGY WHIO
WIOD WIS WJAR WJAX WJDX
WKY WLW WMAQ WMC WOI
WOW WPTF WRC WRVA WSB
WSM WSMB WTAG WTAM WTTIC
WTM J WTMJ WWJ WWNC

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

CFRB CRAC 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
WBMM WBIG WBNS WBRC WBT
WCAO WCAU WCCO WCOA WDAE
WDBJ WDOD WDNC WDOD WDRC
WEAN WFBL WFBM WFEA WGST
WHAS WHBC WHK WHP WIBW
WIBX WICC WISN WJAS WJR
WJSV WKBN WKBN WKBW WKRC
WLAC WLBY WMAS WMDB WMER
WNAC WNAX WNOX WOC WOKO
WORC WOWO WQAM WREB WSBT
WSFA WSJS WSMK WSPD WTOC
WWL

R — Manhattan Merry-Go-Round

CFPC KDYL KFI KFYR KGW
KHQ KOA KOMO KPO KSD KSTP
KYW WBN WCAE WCSH WDAF
WDAF WFAE WFBW WFBW WGY
WHIO WHIO WIBA WJAR WMAQ
WOW WRC WSAI WTAG WTAM
WTTIC WTMJ WWJ

B — Jack Hylton; Pat O'Malley

KDKA KOIL KSO KWK WBAL WBZ
WBZA WENR WFIL 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

CFPC CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTBS KYW WAPI
WAVE WBN WCAE WCSH WDAF
WDAF WFAE WFBW WEEI WFAA
WFBW WFLA WGY WHIO WHIO
WIBA WIOD WIS WJAR WJAX
WJDX WKY WMAQ WMC WOI
WOW WPTF WRC WRVA WSAI
WSB WSM WSMB WSOC WTAG
WTAM WTTIC WTMJ WWJ WWNC

B — Walter Winchell

KDKA KOIL KSO KWK WBAL WBZ
WBZA WENR WFIL 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 WFIL WGAR
WHAM WJZ WMAL WMT WREN
WSAI 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 KPRC
KGB KHJ KLZ KMBC KMJ KMOX
KOIN KOL KRLL KSL KYI 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

CFPC CRCT KDYL KFI KFSB
KFYR KGHL KGIR KGU KGW
KHQ KOA KOMO KPO KPRC KSTP
KTAR KTBS KTHS KYW WAPI
WAVE WBAP WBN WCAE WCSH
WDAF WDAF WFAE WFBW WEEI
WFBW WFLA WGY WHIO WHIO
WIBA WIOD WIRE WIS WJAR
WJAX WJDX WKY WMAQ WMC
WOAI WOW WPTF WRC WRVA
WSAI WSB WSM WSMB WSOC
WTAG WTAM WTTIC WTMJ
WTM J WTMJ WWJ WWNC

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

CFRB CRAC KGKO KLRA KOH
KOMA KRLL KSL KTSa KTUL
KWKH WABC WACO WADC WALA
WBIG WBNS WBRC WBT WCAO
WCAU WDAE WDBJ WDOD WDNC
WDOD WDRC WEAN WFBL WFEA
WGST WHBC WHP WIBX WICC
WJAS WKBN WKBW WLAC WLBY
WMAS WMBG WMBR WMMN
WNAC WOKO WORC WQAM WREB
WSJS WSMK WTOC WVVA

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 KFSB KGW KHQ KOA
KOMO KPO KPRC KTAR KTBS
KTHS WBAP WDAF WKY

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

KDYL KFI KFSB KGHL KGIR
KGW KHQ KOA KOMO KPO KPRC
KTAR KTBS KTHS WAPI WAVE
WBAP WJDX WKY WMC WOI
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 KFSB KGHL KGIR
KGU KGW KHQ KOA KOMO KPO
KTAR

B — Paul Whiteman's Musical Varieties

KECA KEK KFSB KGA KGO KJR
KPRC KTBS KTHS WAPI WAVE
WBAP WJDX WKY WMC WOI
WSB WSM WSMB

ED-12:00 p.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, 8:00 p.m. Sunday, C
 Pittsburgh Symphony, 8:00 p.m. Thurs., B
 Radio City Music Hall, 12:30 p.m. Sunday, C
 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 Heidt, 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 Paige, 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
 Fireside 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 Ballou, 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, R
 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
 Walter Winehell, 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, San-
 dor Utca No. 7.
 Weekdays 0045-1815;
 Sun. 315-1900 EST

550 (545.1)

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

560 (535.4)

11PA 4. Palermo, I. (565)
 MTCY 100. Hsinking, Mch.
 RW41 1.2 Syktyvkar, USSR. (563)
 RW42 10. Gorki, USSR. (565)
 XGOH 10. Chengtu, China.
 XLHB .045 Shanghai, China.
 ZUG 10. Grahamstown, 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
 RW68 10. 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.
 Buenos Aires, Arg.
 Radio Callao, Callao
 (666)
 RW35 10. Astrakhan, USSR (598)
 XHKB .1 Tengchow, China.
 ZL 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
 IIF 20. Florence, I. EIAR
 Stazione di Firenze.
 Weekdays 130-1730;
 Sun. 310-1730 EST
 JODK2 10. Seoul, Ko.
 KZRM 50. Manila, P. I. (618.5)
 Daily 600-2300
 RW18 1. Pratigorsk, USSR
 RW22 10. Oufa, USSR. (617)
 RW50 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; 1900-100; Sat.
 830-930; 1100-1830;
 1900-100; Sun. 1130-

FOREIGN B. C. STATIONS BY FREQUENCIES

1345; 1630-1815; 1930-2400

620 (483.6)

- CB62 1. Santiago, Chi. Radio Chilena. Lisbon, Por. (629) Emissora Nacional. Daily 700-1900 EST
- JOTK .5 Matsuye, Jap. (625)
- LKT 20. Trondelag, Nor. (629)
- LV3 2. Cordoba, Arg.
- RW31 10. Ivanovo, USSR. (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, Cz. Daily 0030-1730 EST
- RW28 .8 Vladivostok, USSR. (635)
- RW32 10. Vladivostok, USSR. (635)
- RW84 1.2 Oust-Abakansk, USSR. (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. Portales 528
- CC64 .1 Concepcion, Chile. El Sur, Freyre 799
- JOUK .3 Akita, J. (645)
- RW29 10. Petrozavodsk, USSR. (648)
- RW56 1.2 Penza, USSR.
- YN 90. Lyons, F. (648). La Doua (festing). Daily 215-1800 EST
- ZEK .5 Hong Kong, Chn. GMT Mon., Thurs., Sat., from 12:30. The Secretary, Hong Kong Brdcastg. 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, Martin 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 USSR. (662)
- 20. Jerusalem, Pal. (668)
- 50. Manchester, G. B. (668) North Regional Weekdays 1515-1900; Sun. 730-1745 EST

670 (447.5)

- JFAK 10. Taihoku, For.
- LS4 7. Buenos Aires, Arg. Radio Portena, Belgrano 1841
- MTFY 3. Harbin, Mnch. (674)
- RW23 1. Grozny, UZR. (676)
- YVGRV .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, Speichergrasse No. 6. Weekdays 630-1630; Sun. 355-1630 EST

680 (440.9)

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

..... 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 Kunning, 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 Supérieure 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, USSR. (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 Samara, USSR.
- RW16 10. Kashing, Chn. (714.3)
- XGOS 1 Chunking, Chn. (711)

720 (416.4)

- JFBK 1. Tainan, For.
- JORK .5 Kochi, J. Mr. Matsuo, 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, USSR. (722)
- XLHC .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. Karagoorlie, Ausl.

730 (410.7)

- CB73 1. Santiago, Chile. UI-

FOREIGN B. C. STATIONS BY FREQUENCIES

CX10 1. timas Noticias. Com-
pania 1258
Montevideo, Uru.
Internacional Brd-
cstg. Industria 2840;
11-15; 16-24
EAJ2 3. Madrid, Sp. (731)
Radio-Espana
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, USSR. (734)
XHGS .05 Wuchow, Chn.
5CL 2. Adelaide, Ausl.
Hindmarsh Square.
Same Schedule as
5CK, 640 kc.
..... 20. Tallin, Est. (731)

740 (405.2)

OFD 1. Pori, Fin. (749)
PRE6 1.5 Uberaba, Brz.
RW64 1.0 Ordjonikidze, USSR.
(749)
XHHB .05 Shanghai, Chn.
2BL 3. Sydney, Ausl.
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. Marselles, F. (749) PTT
Daily 245-47 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 Carcoca 45
PRA8 3. Pernambuco, Brz.
Ave. Cruz Cabuga 394
RW64 10. Urdjonikidze, USSR.
(752)
XGOK 1. Canton, Chn.
XQKB .15 Tientsin, China.
YVARC .1 Caracas, Vnz.
ZTD 1.5 Durban, S. Af.
7NT 7. Keiso, Ausl. 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, USSR. (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 515-19;
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, USSR. (776)
VUM .2 Madras, In.
3LO 3.5 Melbourne, Ausl.
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
Sao Paulo, Brz. (788)
Radio Cosmos, Praca
Marechal Deodora 52
Shanghai, Chn.
XLHA .05 Leipsig, G. (785)
..... 120. 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, USSR. (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 Radio 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, Ausl. 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
11MI 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 Llantada
LV7 1. Tucuman, Arg.
G. Acha Munoz y Cia.
Mendoza 437
PRH8 5. Rio de Janeiro, Brz.
Radio Ipanema
XLKB .055 Napier, N. Z.
ZZH .065 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, Ausl. 82 Eliz-
abeth St. Mon. to
Sat. 930-1030; 1330-
1530; 1900-0030; Sun.
2130-2330
..... 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, Mai-
pu 462
RW39 100. Moscow, USSR. (832)
Inna Marr, Esq.
Moscow-Stalin Radio
Station.
Daily 9-1630 EST
XGF .0075 Tsinan, Chn. (833)
XLII .03 Wuhu, Chn.
3GI 7. Longford, Ausl.

FOREIGN B. C. STATIONS BY FREQUENCIES

840 (356.9)

- CB84 .1 Talcahuano, Chile. Francisco Morales. Aldea 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 ZBW 2. Hongkong, C. (845) The Secretary, Hong Kong Brdcastg. Com., P. O. Box 200.
- 2YC .2 Wellington, N. Z. Featherstone St. Mon. to Sat. 17-18; 19-22; Sun. 18-22
- 100. Berlin, G. (841) Radio Reichsender, Berlin Brdcastg. House Daily 0000-1800 EST

850 (352.7)

- CX16 10. Montevideo, Ur. SADREP, Av. S. Martinez 13500
- EAJ3 3. Valencia, Sp.
- HSPI 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, USSR. (859)
- RW73 10. Nairobi, Ken. (858)
- VUB 3. Bombay, In. (855)
- XLIQ .05 Hangchow, China
- XQHB .1 Shanghai, Chn.
- 5RM 1. Renmark, Austral. 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 Botancourt da Silva 21
- XGOF .5 Tsinan, China.
- XHHD .05 Shanghai, China.
- 16. Poznan, Pol. (868) Daily 1-18 EST
-6 Paris, F. (868) AGEN

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. Igaraka, U.S.R. (871)
- XLIL .05 Suchow, Chn.
- 2GB 1. Sydney, Austral. "The Nation's Station", Adyar House, 29 Bligh 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, U.S.R. (888)
- VUD 20. Delhi, India. (882)
- XHHV .1 Shanghai, Chn.
- YV3RC .1 Caracas, Venz. (882)
- 1YX .5 Auckland, N. Z. Karangahape Road Mon. to Sat. 17-18; 19-22; Sun 18-22
- 6PR .5 Perth, Austral. 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 Murcurio de Val., Casino de Vina del Mar.
- JODK1 10. Seoul, Korea
- KZIB 1. Manila, P. I. Daily 10-20
- LU2 2. Bahia Blanca, Arg. Radio Bahia Blanca.
- PRF3 5. Sao Paulo, Brz. (CP 60 kw) Radio Difusora Sao Paulo.
- XGOI .5 Shanghai, China.
- XGTM .1 Tengchow, Chn.
- ZPT .105 Wairoa, N. Z. E. A. Perry, 128 Queen St. Tue. 7-9; 18-2230; Wed. to Sat. 7-9; Sun. 730-930.
- 3MA .05 Mildura, Austral. 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, Austral.
- 100. Hamburg, G. (904) Radio Reichsender Hamburg. Daily 00-18 EST

910 (329.6)

- LR2 12. Buenos Aires, Arg. Radio Argentina, Bolivar 1356
- RW30 10. Dnepropetrovsk, U.S.R., (913)
- XLIM .05 Hanin, Chn.
- 4RK 2. Rockhamton, Austral. Relays 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 10. 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 Cruceiro do Sul; Rua Mariz e Barros 270
- RW55 1. Engels, U.S.R. (932)
- VUG 1. Delhi, India
- XGON .2 Nanking, China.
- 3UZ .65 Melbourne, Austral. 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. Mercad 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 2005. 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
 SDN .3 Adelaide, Ausl. 29 Rundle 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 Maobashi, J.
 XHIB .075 Wuslh, 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)
 I1GE 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. Goicochea, Jiron Ocona No. 158
 PRC6 1. R'de Janeiro, Brz. Soc. Radio Philips, Rua Sacadura Cabral 43
 XMHB .5 Shanghai, Chn.
 2LV .. Invernelli, 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
 PFBI 60. Hilversum, Hol. (995) Heir Radio Hilversum, Ouden, Engweg, 4. Daily 310-1810 EST
 XGCK .075 Chuching, Chn.
 XGOD 1. Hangchow, Chn.
 2GZ 2. Orange, Ausl.

1000(299.8)

HJ3ABH 2. Bogota, Col. (1005) "La Voz de La Victor", Aptdo 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 Velga, Rua Mayrink Velga 17
 PRB8 .05 Mogy das Cruzes, Brz.
 XGMK .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 SADREPE, Las Rozas/756
 PRB9 5. Sao Paulo, Brz. (1017) Radio Soc. Record, Praca da Republica 17 Tchernigov, USR.
 RW86 5. (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. Daventry, 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)
 JBAA .5 Fuzan, Korea
 OBJ ... Lima, Peru. Escuela Militar de Chorrillos
 XHHG .1 Shanghai, Ch.
 2KY 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
 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 Foochow, 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. Artula Evangelisti y Cia. 10-13; 18-23
- JOJG .5 Yamagata, Japan
- RW70 10. Leningrad, USR.
- 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
- IIBA 20. Bari, I. (1059) EIAR Stazione di Bari Weekdays 130-1730; Sun. 335-1730 EST
- PRF6 .05 Bahia, Brazil. Radio Club da Bahia
- RW33 1. Krasnodar, USR.
- 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, Goicoelea 0122-11-13; 17-18

- RW57 4. Tiraspol, USR. (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 Honan-fu, Chn.
- XGOX .2 Canton, Chn. (1071)
- XKRI .1 Bordeaux, F. (1077) Bordeaux - Lafayette Hotel des PTT, 220 Chemin do Tondu 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. W. Castelano & 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, Aptdo 745. Daily 3-19 EST
- PRC2 3. Porto Alegre, Brz. Radio Soc. Gaucha, Galerie Chaves
- PRC7 .25 Bello Horizonte, Brz. Soc. Radio Mineira
- RW75 10. Vinnitza, USR. (1095)
- XGOB .25 Loyang, Chn.
- XLIO .. Shaohing, China
- 1ZB .1 Auckland, N. Z. 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
- IINA 1.5 Naples, I. (1104)
- XHHS .1 Shanghai, Chn.
- 7LA .3 Lancelton, 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 Piratininga
- 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, Porvenir 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
Nan-chang, Chn.
ZP1 1. Asuncion, Par. (1135)
GML .5 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
41TO 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; 1830-430
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, Venez.
(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

XHUU .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. Argen-
tina 977
CX32 .5 Montevideo, Uru.
Radio Marconi, Gen.
Hornos 537. 10-2
Nagoya, J. (1175)
JOCK2 10. Sao Paulo, Radio
PRB6 1. Cruzeiro 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 Rimu
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 10. 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., Uribe
y Moreno, P. O. Box
317.
LT9 .5 Santa Fe, Argentina.
Radio Roca Soler
Lima, Peru
OAX4B .25 Taubate, Brz. (1207)
PRD3 .25 Soc. Radio Banderi-
ante
Shanghai, Chn.
XHHN .1 Caracas, Vnz.
YV3RC 3. Bajos Pasaje Ramella
Lahore, India
VUL .1 Christchurch, N. Z.
3YL .5 Mon. to Sat. 17-18;
19-22; Sun. 18-22
Adelaide, Ausl.
Richards Bldg., Mon.
to Fri. 830-1; Sat. 830-
2; Sun. 12-14; 17-18;
1845-100
5KA .3 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
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
PRES 10. Rio de Janeiro, Brz.

FOREIGN B. C. STATIONS BY FREQUENCIES

PRG9 .5 Radio Transmissora Brasileira
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) []

HJABK .3 Medellin, Cib.
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, Argentina. Radio Ge. San Martin, Calle Sarmiento 60
LV-14 .5 La Rioja, Arg. Radio Provincia de La Rioja
XHHY .1 Shanghai, Chn.
ZL .05 Hastings, N. Z. John Holden, 609 Park Rd. Thurs., 1830-23; Sun. 930-1200
Sale, Ausl. A Gilchrist, Raymond St., "Gippsland's Radio Station."
Mon. to Fri. 12-15; 19-24; Sat. 12-1430; 1930-24; Sun. 20-24
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 Saffle, Swe.
..... 2 Varberg, Swe.

1250(239.9) []

CX36 .25 Montevideo, Uru. Centenario Brdstg. Ignacio Nunez 2133. 9-14; 17-24
EAJ8 1. Sn. Sebastian, Sp. (1258)

HC2JB .03 Guyaquil, Ec.
MABS .035 Siangyuan, 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.
1ZM .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; 1930-0030; 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.
OA40 .1 Lima, Peru (1277)
PRES 7. Rio de Janeiro, Brz. Soc. Radio Nacional Rua Buenos Aires 120.
TUA .5 Tunis, Tun. (1275)
XDYF .015 Wu-hu, Chn.
ZP4 .15 Asuncion, Par. (1275)
2SM 1. Sydney, Ausl., 46 Carlingford St. "Double D Eucalyptus" Australia 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, Lowburn 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)

XGOE 1. Radio Club de Sao Paulo, Rua 7 de Abril Yungning, China
4BK .5 Brisbane, Ausl. Mon. to Fri. 830-0030; Sat. 830-0130; Sun. 13-1530 1830-24.
..... 5. Dornbirn, Aust. (1294)
..... 4.2 Kuldiga, Lat. (1294)
..... 20. Linz, Austria (1294)
..... 2. Vorarberg, Aus. (1294)

1300(230.6) []

CB130 1. Santiago, Chile. Mavis, Av. J.D. Canas 565 La Paz, Bol.
CPX 5. Santa Fe, Arg. Radio del Inst. Soc. de la Univ. Nac. del Litoral
LT10 1. Lima, Peru, Estacion Radiodifusora DUSA, Calle de Plumeros.
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.
YV5RMO .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. Weymouth St. Daily 9-100

1320(227.1) []

CB132 1. Valparaiso, Chile. David Wallace, Esmeralda 1111
CD132 .1 Valdivia, Chile. Carlos Kahler, Isla Teja
CW39 .1 Paysandu, Uru. Miguel Penna. 1030-1230; 1730-2445
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, Cib., E. J. Pellet B., P. O. Box 751
 PRE2 .5 R^o 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 Aliviol, Gumerindo 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. Konigsberg, G. (1348)
 1. Bordeaux, F. (1348)
 5. Cairo, Eg. (1348)

1350(222.4)

LKN .15 Netodden, Nor. (1357)
 L56 6. Buenos Aires, Arg. Radio del Pueblo, Estados Unidos 1816
 OAGE .03 Araquipa, 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 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)
 PRD4 .25 Radio Club de Para Araraquara, Brs. (1364) Radio Cultura Araraquara, Ave. Feljo 25
 PRF9 .5 Rio Grande do Sul, Brz. Empresa Radiodifusora Porto Alegre
 XQHD .2 Shanghai, Chn.
 2MO .05 Gunnedah, Ausl. P. O. Box 78. Mon. to Sat. 830-1030; 1330-1530; 1930-2330; Sun. 930-1130; 1530-1730; 1930-2330
 4PM .1 Port Moresby, Ausl.
 No. 2 Turin, I. (1366)

1370(218.8)

CX42 1. Montevideo, Uru. Colonial Brdstg. Ave. Italia 3646. 11-24
 XHHA .05 Hangchow, Chn.
 XLID .05 Hangchow, China
 3HS .05 Horsham, 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. Parbury 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
 XLIN .05 Wusih, Chn.
 2GN .1 Goulburn, Ausl. Auburn St. Mon. to

Fri. 1345-1515; 1930-24; Sat. 1330-1430; 1930-24; Sun. 2030-2330
 ZBU .. 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^o de Janeiro, Brz. Dpto. de Educacao da Prof. Largo da Carlota 5
 XLHO .1 Shanghai, Chn.
 Z20 .1 Palmerston, N. Z. J. V. Kyle, 50 Waidegrave 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, Caupolican 370.
 CX44 .2 Montevideo, Uru. SADREP, Solis Grande 912. 8-2
 PRB5 .05 Franca, Brz. (1415)
 PRE5 .25 Radio Club Hertz Uberaba, Brz. Radio Soc. Triangulo Mineiro
 XHIA .06 Chucho, 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)
 Radio LL
 IZS .05 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 Atlantida, Enrique Garcia, Molino Sandoval

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. Radio Club Sorocaba Minsk, USR. (1438)
2WL .05 Wollongong, Ausl. Russell Yeldon, Wollongong Brdstg. Co., "Ferranti Products," Mon. to Fri. 12-1330; 20-2330; Sat. 20-2330; Sun. 2030-2230
4GY .05 Gympie, Ausl.

1440(208.2)

CB144 .1 Santiago, Chile. Seguros Generales, Moreda 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, Calella 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, Ausl.
4IP .05 Ipswich, Ausl.
 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.
5MU .1 Murray Bridge, Ausl. 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, Ausl. 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, Ausl.

1470(204)

CW43 .1 Lavellaja, Uruguay. B. C. Blanes y I. R. Volante.
XGDZ .001 Changchow, Chn.
2BE .1 Bega, Ausl.
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, Ausl.
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, Ausl. John Dower, 47 York St., (Sydney). Mon. to Fri. 1345-1515; 19-24; Sat. 14-1515; 19-0030
4BU .1 Bundaberg, Ausl.

1490(201.2)

ON4CE .1 Chatelaineau, Big. (1492)
XLKS .02 Kashing, Chn.
No. 1 .1 Wallonia, Belg. (1492)
2TM .05 Tamworth, Ausl.
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, Uru. 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, Ausl. 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, Ausl.
 .. .25 Pietasaari, Fin.
 .. .2 Radio Alcala, 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	
ARGENTINA	
Bahia Blanca	
LU2 900	2000
LU7 1240	2000
Buenos Aires	
LR1 1070	50000
LR2 910	12000
LR3 950	31000
LR4 990	16000
LR5 830	29000
LR6 870	26000

LR7 750	15000	LV3 620	2000
LR8 1150	7000	Corrientes	
LR9 1030	5000	LT7 1340	500
LR10 790	10250	La Plata	
LS1 710	5000	LR11 1390	1000
LS2 1190	30000	LS11 1440	700
LS3 630	5000	La Rioja	
LS4 670	7000	LV14 1240	500
LS5 1110	5000	Mar del Plata	
LS6 1350	6000	LU6 1300	500
LS7 1310	10000	Mendoza	
LS8 1230	15000	LV6 690	500
LS9 1270	6000	LV10 1210	500
LS10 590	6000	Parana	
Cordoba		LT11 1260	500
LV2 880	7000		

Resistencia	
LT5 1160	500
Rosario	
LT1 780	4000
LT3 1080	4500
LT8 840	500
San Juan	
LV1 730	1500
LV5 1120	500
Santa Fe	
LT9 1200	500
LT10 1300	500
Tucuman	
LV7 820	1000

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			HJ3ABH 1005 2000			CX42 1370 1000	
Amparo			PRD7 1430 250			HJ3ABK 1320 50			CX44 1410 200	
PRC4 1300 50			PRD9 769 250			Cartagena			CX46 1450 1500	
Araraquara			Uberaba			HJ1ABM 1154 50			CX48 1500 1500	
PRD4 1364 250			PRE5 1410 250			Medellin				
Bahia			PRE6 740 1500			HJ4ABK 1230 300				
PRA4 840 50			CHILE			ECUADOR				
PRF6 1050 50			Concepcion			Guayaquil				
PRF8 950 500			CC64 640 100			HC2ET 1153 300				
Bauru			CC117 1170 100			HC2JB 1250 30				
PYG8 1250 250			CC141 1410 100			PARAGUAY				
Belem			Curico			Asuncion				
PRC5 1360 100			CC96 960 100			ZP1 1135 1000				
Bello Horizonte			Magallanes			ZP3 1000 300				
PRC7 1090 250			CD103 1030 100			ZP4 1275 150				
Campinas			CD111 1110 100			ZP5 1465 150				
PRC9 1175 250			CD136 1360 100			ZP7 1083 700				
Cruzeiro			Osorno			ZP9 898 1500				
PRG6 1500 250			CD112 1120 100			Villarrica				
Curitiba			CD121 1210 100			ZP15 700				
PRB2 882 250			Rancagua			PERU				
Fortaleza			CC109 1090 100			Arequipa				
PRE9 1315 500			CC136 1360 100			OA6D 1400 150				
Jabotical			San Antonio			OA6E 1350 30				
PRG4 1442 250			CB140 1400 100			OA6U 1443 50				
Jahu			San Felipe			Lima				
PRG7 1330 250			CB146 1460 100			OAX4A 750 1500				
Juiz de Fora			Santiago			OAX4B 1200 250				
PRB3 857 250			CB57 570 5000			OAX4C 1300				
Mogy das Cruces			CB62 620 1000			OAX4E 980 50				
PRB5 1000 50			CB73 730 1000			OAX4F 1080 50				
Niteroy			CB78 780 1000			OAX4H 1150				
PRD8 1132 1000			CB82 820 1000			OAX4I 1190				
Pelotas			CB89 890 1000			OAX4J 1120				
PRC3 920 250			CB93 930 3000			OAX4L 1250 100				
Pernambuco			CB97 970 1000			OA4AR 1210 25				
PRA8 750 3000			CB101 1010 1000			OA4K 1360 150				
Petropolis			CB106 1060 1000			OA4O 1277 100				
PRH4 1480 1000			CB114 1140 1000			OA4D 1210 25				
Porto Alegre			CB118 1180 1000			URUGUAY				
PRC2 1090 3000			CB126 1260 1000			Canelones				
PRH2 600 25000			CB130 130 1000			CW47 1480 100				
Rio Claro			CB134 1340 500			Colonia				
PRF2 725 250			CB138 1380 5000			CW37 1400 25				
Rio de Janeiro			CB144 1440 100			Durazno				
PRA2 750 1500			CB144A 1440 100			CW25 1430 500				
PRA3 860 2500			CB144B 1440 500			Florida				
PRA9 1000 1000			CN144C 1440 150			CW33 1460 75				
PRB7 800 500			CB150 1500 1000			Lavelleja				
PRC6 980 1000			Talca			CW43 1470 100				
PRC8 1030 1000			CC143 1430 100			Mercedes				
PRD2 932 1000			Talcahuano			CW29 1120 50				
PRD5 1400 1000			CB84 840 100			Montevideo				
PRE2 1330 500			Temuco			CX4 610 1000				
PRE3 1220 10000			CC58 580 500			CX6 650 10000				
PRE4 940 250			Valdivia			CX8 690 500				
PRE8 1270 7000			CD132 1320 100			CX10 730 1000				
PRF4 923 10000			Valparaiso			CX12 770 1000				
PRG3 1280 10000			CB76 760 10000			CX14 810 500				
PRH8 820 5000			CB90 900 1000			CX16 850 10000				
Rio Grande do Sul			CB116 1160 100			CX18 890 1000				
PRF9 1360 500			CB120 1200 1000			CX20 930 2000				
Santos			CB124 1240 250			CX22 970 250				
PRB4 960 1000			CB132 1320 1000			CX24 1010 2500				
PRG5 720 750			CB139 1390 105			CX26 1050 2000				
Sao Paulo			Vina del Mar			CX28 1090 3000				
PRA5 1295 500			CB64 640 1000			CX30 1130 500				
PRA6 815 10000			CB111 1110 1000			CX32 1170 500				
PRA7 706 50			COLOMBIA			Venezuela				
PRB6 1170 1000			Barranquilla			Caracas				
PRB9 1017 5000			HJ1ABA 1330 100			YV1RC 960 5000				
PRE7 788 5000			Caracas			YV3RC 1200 3000				
			Medellin			YV4RC 750 100				
			Medellin			Maracaibo				
			Medellin			YV5RMO 1300 150				
			Medellin			YV7RMO 1153 500				
			Medellin			YV11RMO 1034				
			Medellin			Valencia				
			Medellin			YV6RV 670 350				
			Medellin			EUROPE				
			Medellin			AUSTRIA				
			Medellin			Dornbirn				
			Medellin			..... 1294 500			
			Medellin			Graz				
			Medellin			..... 886 7000			
			Medellin			Innsbruck				
			Medellin			..... 519 1000			
			Medellin			Klagenfurt				
			Medellin			..... 1294 4200			
			Medellin			Linz				
			Medellin			..... 1294 15000			
			Medellin			Salzburg				
			Medellin			..... 1348 500			
			Medellin			Vienna				
			Medellin			..... 592 120000			
			Medellin			Vorariberg				
			Medellin			..... 1294 2000			
			Medellin			BELGIUM				
			Medellin			Antwerp				
			Medellin			ON4EB 1465 100				
			Medellin			Binche				
			Medellin			..... 1492 100			
			Medellin			Brussels				
			Medellin			No. 1 620 15000				
			Medellin			No. 2 932 15000				
			Medellin			Chatelaineau				
			Medellin			ON4CE 1492 100				
			Medellin			Courtrai				
			Medellin			..... 1465 100			
			Medellin			Liege				
			Medellin			ON4RW 1500 100				
			Medellin			Radio Comte				
			Medellin			..... 1500 100			
			Medellin			Seraing				
			Medellin			..... 1500 100			
			Medellin			Verviers				
			Medellin			No. 1 1500 100				
			Medellin			No. 2 1500 100				
			Medellin			Wallonia				
			Medellin			No. 1 1492 100				

FOREIGN B. C. STATIONS BY LOCATIONS

No. 2	1500	100	
BULGARIA			
Sofia	850	1000	
CZECHOSLOVAKIA			
Bratislava	1004	13500	
OKR	922	32000	
Brno	1158	2600	
OKB	1113	11200	
Kosice	633	120000	
Moravska	1204	5000	
OKK	DANZIG		
Praha	Danzig		
OKP	1303	500	
No. 2	DENMARK		
Copenhagen			
	1176	10000	
ESTONIA			
Tallinn			
	731	20000	
Tartu			
	517	500	
FINLAND			
Heisinki			
OFA	895	10000	
Pietersaari	1500	250	
Pori	749	1000	
OFD	749	200	
Sortavala	1420	700	
Tampere	1429	500	
OFE	527	10000	
Turku	FRANCE		
Vilpuri	Bordeaux		
OFH	1077	30000	
	968	3000	
Grenoble			
	583	15000	
Lille			
	1213	60000	
Limoges			
	895	500	
Lyons			
YN	648	90000	
RL	1393	25000	
Marseilles			
	749	1600	
Montpellier			
	1339	5000	
Nice			
	1249	2000	
Nimes			
	1492	200	
Paris			
AGEN	868	600	
PFTT	695	120000	
ILLE	1348	800	
PP	959	60000	
Eiffel	1456	20000	
Radio-Normandie			
	1113	10000	
Rennes			
	1040	40000	
Strasbourg			
SPTT	859	35000	
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	
WN	1149	20000	
Daventry			
MR	1013	50000	
Falkirk			
SN	1050	50000	
SR	767	50000	
London			
LN	1149	20000	
LR	877	50000	
Manchester			
NN	1149	20000	
NR	668	50000	
Newcastle			
	1122	1000	
Plymouth			
	1474	300	
HOLLAND			
Hilversum			
PFBI	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			
I1BA	1059	20000	
Bolzano			
I1BZ	536	1000	
Firenze			
I1FI	610	20000	
Genoa			
I1GE	986	10000	
Milan			
I1MI	814	50000	
No. 2	1348	4000	
Naples			
I1NA	1104	1500	
Palermo			
I1PA	565	4000	
Rome			
I1RO	713	50000	
No. 3	1258	1000	
Trieste			
I1TR	1222	10000	
Turin			
I1TO	1140	7000	
No. 2	1357	200	
LATVIA			
Kuldiga			
	1258	10000	
Madona			
	1104	50000	
Riga			
YLZ	583	15000	
NORWAY			
Alesund			
LKA	850	350	
Bergen			
LKB	850	1000	
Bodo			
LKD	686	500	
Fredrikstad			
LKF	776	1000	
Hamar			
LKH	519	700	
Kristiansand			
LKK	1276	500	
Narvik			
	1222	300	
Notodden			
LKN	1357	150	
Porsgrund			
LKP	850	1000	
Rjukan			
LKR	1348	150	
Stavanger			
LKS	1276	500	
Tromsø			
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	
Wlino			
	536	16000	
PORTUGAL			
Lisbon			
CTIAA	629	20000	
Paredo			
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	
SWEDEN			
Falun			
SCC	1086	2000	

Spain has many stations of 100 watts or less on 1492 and 1500 kcs. For complete list see Index by Calls.

FOREIGN B. C. STATIONS BY LOCATIONS

XLIN 1390 50	Okayama			..... 1348 500	Cleveland	600	7000
XLTC 1210 15	JOKK 700 500			KENYA	Corowa		
XLWU 1250 50	Osaka				2CO 670 1000		
Yungning	JOBK-1 750 10000			Nairobi	Crystal Brook	640	7500
XGOE 1290 1000	JOBK-2 1085 10000			VQ7LO 858 600	5PK 1040 2000		
FORMOSA	Sapporo			MOROCCO	Cumnock		
Taichu	JOK 830 10000			Casablanca	2CR 550 10000		
JFCK 580 1000	JOHK 770 10000			GNO 983 25	Denilquin		
Taihouku	JOPK 780 500			Rabat	2QN 1440		
JFAK 670 10000	Shizuoka			CNR 601 25000	Geelong		
Tainan	JOKX 980 500			SOUTH RHODESIA	3GL 1350 50		
JFBK 720 1000	Tokushima			Salisbury	Goulburn		
INDIA	JOAK-1 870 10000			..... 681.8 1500	2GN 1390 100		
Bombay	JOAK-2 590 10000			TUNISIA	Grafton		
VUB 855 3000	Tottori			Tunis	2CF 1210 50		
Calcutta	JOLG 890 500			TUA 1275 500	Gunnedah		
VUC 810 3000	Yamagata			UNION S. AFRICA	2MO 1360 50		
Delhi	JOJG 1040 500			Bloemfontaine	Gympie		
VUG 933 1000	JAVA			ZTB 790 500	4CY 1430 50		
Lahore	Tandjongprik			Cape Town	Hamilton		
VUI 1200 100	YDA8 1510 500			ZTC 600 10000	3HA 1010 300		
Madras	KOREA			Durban	Hobart		
VUM 770 200	Fuzan			ZTD 750 1500	7HO 820 100		
INDO-CHINA	JBAK 1020 500			Grahamstown	7ZL 590 1000		
Salgon	JODK-1 900 10000			ZUG 560 10000	Horsham		
F31CD 840 12000	JODK-2 610 10000			Johannesburg	3HS 1370 50		
JAPAN	MANCHUOKUO			ZIJ 645 10000	3WV 580 10000		
Akita	Dairen			..... 750 10000	Invernell		
JOUK 645 300	JQAK 652 500			Maritzburg	2LV 980		
Asahigawa	Harbin			..... 750 10000	Ipswich		
JOCG 655 300	MTFY 675 3000			Pretoria	4IP 1440 50		
Fukui	MTCY 560 100000			ZTP 952 500	Kalgoorlie		
JOFJ 990 300	Mukden			OCEANIA	6GF 720 2000		
Fukuoka	MTBY 890 1000			AUSTRALIA	6KG 1210 85		
JOLK 680 500	PALESTINE			Adelaide	Katoomba		
Hakodate	Jerusalem			5AD 1310 300	2KB 1160 100		
JOKY 680 500	..... 668 20000			5CL 730 2000	Keiso		
JOMK 635 500	PHILIPPINES			5DN 960 300	7NT 710 7000		
Hamamatsu	Manila			5KA 1200 300	Launceston		
JODG 635 500	KZEG 780 1000			Albury	7LA 1100 300		
Hiroshima	KZIB 900 1000			2AY 1480 100	Lawrence		
JOFK 850 10000	KZRM 618.5 50000			Armidale	2NR 700 7000		
Kanazawa	SIAM			2AD 1080	Lismore		
JOKJ 710 3000	Bangkok			Ayr	2XN 1340 50		
Kochi	HSP-1 856 2500			4AY 980 100	Longford		
JORK 720 500	HSP7J 750 15000			Ballarat	3GI 830 7000		
Kofu	..... 1200			3BA 1320 50	MacKay		
JOKG 800 500	AFRICA			Bega	4MK 1160 100		
Kokura	ALGERIA			2BE 1470 100	Niaryborough		
JOSK 735 1000	Algiers			Bendigo	4MB 1060 50		
Kumamoto	..... 941 12000			3BO 970 200	Melbourne		
JOKY 790 10000	EGYPT			Brisbane	3AK 1500 200		
Kyoto	Alexandria			4BC 1120 1000	3AR 580 4500		
JOKK 960 300	..... 1122 500			4BH 1380 600	3AW 1280 600		
Maebashi	..... 1429 500			4BK 1290 500	3DB 1030 600		
JOBG 970 500	Cairo			4QG 800 2500	3KZ 1180 600		
Matsuye	..... 620 20000			Broken Hill	3LO 770 3500		
JOTK 625 500	AFRICA			2BH 1330 100	3UZ 930 650		
Miyazaki	ALGERIA			Bundaberg	3XY 1420 600		
JONG 600 500	Algiers			4BU 1480 100	3YB 1060 25		
Nagano	..... 941 12000			Burnie	Mildura		
JONK 940 500	EGYPT			7BU 1390 100	3MA 900 50		
Nagasaki	Alexandria			Cairns	Minding		
JOAG 930 500	..... 1122 500			4CA 1470 100	6WA 560 10000		
Nagoya	..... 1429 500			Canberra	Murray Bridge		
JOCK-1 810 10000	Cairo			2CA 1050 500	5MU 1450 100		
JOCK-2 1175 10000	..... 620 20000			AFRICA	Narrabri		
Niigata	AFRICA			2NH 1170 2000	Newcastle		
JOOK 920 500	ALGERIA			2HD 1140 500	2KO 1410 500		
Obihiro	Algiers			2NC 1230 2000	2NK 1230 2000		
JOOG 1080 500	..... 941 12000			AFRICA	Northam		
	EGYPT			6AM 980 1000	Oakey		
	Alexandria			4AK 1220 1000			
	..... 1122 500						
	..... 1429 500						
	Cairo						
	..... 620 20000						

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	1YX 880	150		Hastings		
6ML 1130	500		2UE 950	1000	1ZB 1090	100		2ZL 1240	50	
6PR 880	500		2UW 1110	1000	1ZS 1420	50		Invercargill		
6WF 690	3500		Tamworth		Balclutha			4ZP 620	500	
Port Moresby			2TM 1300	50	4ZR 1340	4		Manurewa		
4PM 1360	100		Toowoomba		Christchurch			1ZM 1260	50	
Renmark			2GR 1000	500	3YA 720	10000		2ZD 1170	5	
5RM 850	1000		Townsville		3YL 1200	500		Napier		
Rockhampton			4TO 1170	200	3ZM 1470	60		2ZH 820	65	
4RK 910	2000		Ulverstone		Cromwell			Nelson		
4RO 1330	50		U7V 1460	300	4ZC 1280	7		2ZR 920	15	
Sale			Wagga		Dunedin			New Plymouth		
3TR 1240	500		2WG 1150	200	4YA 790	500		2YB 760	100	
Warwick			4WK 900	50	4YO 1140	150		Palmerston N.		
Shepparton			Wollongong		4ZB 1010	25		2ZF 960	250	
3WR 1260	50		2WL 1430	50	4ZL 1220	100		2ZO 1400	100	
Swan Hill			NEW CALEDONIA		4ZM 1010	30		Wairoa		
3SH 1080	50		Noumea		4ZO 1010	25		2ZP 900	105	
Sydney			FJP 600	500	Gisbourne			Wellington		
2BL 740	3000				2ZJ 980	60		2YA 570	5000	
2CH 1190	1000							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	LUX 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	I1BA 1059	KZIB 900	LV2 880	PRB6 1170	
CB84 840	CW31 1160	EAJ23 1492	I1BZ 536	KZRM 618.5	LV3 620	PRB7 800	
CB89 890	CW33 1460	EAJ24 1492	I1FI 610	LKA 850	LV5 1120	PRB8 1000	
CB90 900	CW35 1240	EAJ25 1502	I1GE 986	LKB 850	LV6 690	PRB9 1017	
CB93 930	CW37 1400	EAJ26 1502	I1MI 814	LKD 686	LV7 820	PRC2 1090	
CB97 970	CW39 1320	EAJ27 1492	I1NA 1104	LKF 776	LV10 1210	PRC3 920	
CB101 1010	CW41 1360	EAJ29 1500	I1PA 565	LKH 519	LV14 1240	PRC4 1304	
CB106 1060	CW43 1470	EAJ30 1500	I1RO 713	LKI 845	MABS 1250	PRC5 1364	
CB111 1110	CW47 1480	EAJ31 1492	I1TO 1140	LKK 1276	MTBY 890	PRC6 980	
CB114 1140	CX4 610	EAJ32 1500	I1TR 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	OAX4A 750	PRC9 1175	
CB120 1200	CX10 730	EAJ35 1500	JFBK 720	LKP 850	OAX4B 1200	PRD2 932	
CB124 1240	CX12 770	EAJ36 1500	JFCK 580	LKR 1348	OAX4C 1300	PRD3 1207	
CB126 1260	CX14 810	EAJ37 1500	JOAG 930	LKS 1276	OAX4E 980	PRD4 1364	
CB130 1300	CX16 850	EAJ38 1500	JOAK-1 870	LKT 629	OAX4F 1080	PRD5 1400	
CB132 1320	CX18 890	EAJ39 1492	JOAK-2 590	LR1 1070	OAX4H 1150	PRD7 1430	
CB134 1340	CX20 930	EAJ40 1580	JOBG 970	LR2 910	OAX4I 1120	PRD8 1132	
CB138 1380	CX22 970	EAJ41 1492	JOBK-1 750	LR3 950	OAX4L 1250	PRD9 769	
CB139 1390	CX24 1010	EAJ42 1492	JOBK-2 1085	LR4 990	OA4AR 1210	PRE2 1330	
CB140 1400	CX26 1050	EAJ43 1492	JOCG 655	LR5 830	OA4AK 1360	PRE3 1220	
CB144 1440	CX28 1090	EAJ44 1492	JOCK-1 810	LR6 870	OA4O 1277	PRE4 941	
CB144A 1440	CX30 1130	EAJ45 1500	JOCK-2 1175	LR7 750	OAGD 1400	PRE5 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 790	OFA 895	PRE8 1270	
CB150 1500	CX38 1290	EAJ49 1500	JOFG 990	LR11 1390	OFD 749	PRE9 1315	
CC58 580	CX40 1330	EAJ51 1492	JOFK 850	LS1 710	OFE 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	F1CD 840	JOJK 800	LS7 1310	ON4CE 1492	PRF9 1360	
CC143 1430	EAJ3 850	HAE 1122	JOJK 700	LS8 1230	ON4CE 1500	PRG3 1280	
CD103 1030	EAJ4 1492	HAE2 1321	JOLG 890	LS9 1270	ON4EB 1492	PRG4 1442	
CD111 1110	EAJ5 731	HAE3 1438	JOLK 680	LS10 590	ON4RW 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	
CFX 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

PYG8	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	2SM	1270	4GR	1000
RW16	710	SBA	704	XGOD	990	XKRI	1071	YN	648	2TM	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	XGOH	560	XLHC	720	YV4RC	750	2WG	1150	4MK	1160
RW22	617	SBH	1131	XGOI	900	XLHD	720	YVSRMO	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	XGYV	1158	XLII	830	1YX	880	3AW	1280	5AD	1310
RW41	563	SCQ	1312	XHGS	730	XLIJ	790	1ZB	1090	3BA	1320	5AK	640
RW42	565	SCR	1402	XHHA	840	XLIK	1330	1ZM	1260	3BO	970	5AL	730
RW46	686.5	SCS	1402	XHBB	740	XLIL	870	1ZS	1420	3DB	1030	5DN	960
RW48	704	SCT	1402	XHDD	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	XHFF	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	XLPL	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	6WA	560
RW67	968	VUL	1200	XHRR	1340	XMHC	700	2GN	1390	3XY	1420	6WF	690
RW68	577	VUM	770	XHHS	1100	XOCL	1500	2GZ	990	3YA	720	7BU	1390
RW69	968	VUP	1500	XHHT	1500	XOMO	1450	2HD	1140	3YB	1060	7HO	820
RW70	1040	XDYF	1270	XHHU	1160	XQHA	580	2KA	1160	3YL	1200	7TH	820
RW71	689	XGKG	990	XHHV	880	XQHB	850	2KO	1410	3ZM	1470	7LA	1100
RW73	859	XGDZ	1470	XHHX	920	XQHC	1300	2KY	1020	3ZR	940	7NT	750
RW74	680	XGED	1340	XHHY	1240	XQHD	1360	2LV	980	4AK	1220	7TUV	1460
RW75	1095	XGF	833	XHHZ	1180	XQHE	1460	2MO	1360	4AY	980	7ZL	590
RW78	767	XGKA	895	XHIA	1410	XQHF	1480	2NC	1230	4BC	1120		
RW79	610	XGMA	1005	XHIB	970	XQKA	1350	2NR	700	4BH	1380		

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

540 kcys. (555.2)

CJRM ak 1000 F Moose Jaw, Sask. —J. Richardsons & Sons, 311 Main St.

550 kcys. (545.1)

CFNB ak 500 F (1) Frederickton, N. B. —J. S. Neill & Sons, York St.
 KFUD ae 500 2 (1) St. Louis, Mo. —Evangelical Lutheran Synod, 801 DeMun St.
 KFYR ae 1000 N (5) Bismarck, N. D. —Meyer Brcdstg. Co., 320 Broadway
 KOAC ak 1000 Corvallis, Ore. —State Agricultural College.
 KSD ak 1000 2R (5) St. Louis, Mo. —St. Louis Post-Dispatch.
 K TSA ak 1000 C (5) San Antonio, Tex. —Southwest Brcdstg. Co., Plaza Hotel.
 WDEV ae 500 D Waterbury, Vt. —Mary M. Whitehill, Stowe St.
 WGR ck 1000 C Buffalo, N. Y. —Buffalo Brcdstg. Corp., Rand Bldg.
 WKRC ak 1000 C Cincinnati, Ohio —WKRC, Inc., Hotel Alms
 WWSA ak 500 D Harrisonburg, Va. —Marion Gilliam, Main & Market Sts.

560 kcys. (535.4)

KFDM ak ae 1000 C (1) Beaumont, Tex. —Sabine Brcdstg. Co., Box 2950
 KLZ ae 1000 C Denver, Colo. —Shirley-Savoy Hotel.
 KSFO ak 1000 San Francisco, Cal. —Russ Building.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KWTO	ak	5000	D	Springfield, Mo.	—Ozarks Brdcstg. Co., St. Louis & Kimbrough
WFIL	ak	1000	B	Philadelphia, Pa.	—WFIL Brdcstg. Co., 801 Market St.
WIND	ak	1000	(5)	Gary, Ind.	—Johnson-Kennedy Corp., 504 Broadway
WIS	ae	1000	N (5)	Columbia, S. C.	—Station WIS, Inc., Box 635
WQAM	ae	1000	C	Miami, Fla.	—Miami Brdcstg. Co., 327 N. E. First Ave.
XEAO	ak	250	(15)	Mexicali, L. C.	—Luis Castro, Altamirano 156
XEFC	ak	100	....	Merida, Yuc.	—J. Molina Font., Calle 59, No. 517

570 kcys. (526.0)

KGKO	ak	250	C (1)	Wichita Falls, Tex.	—W. F. Brdcstg. Co., Ninth and Indiana.
KMTR	ak	1000	....	Hollywood, Calif.	—KMTR Radio Corp., 915 N. Formosa Ave.
KVI	ak	1000	C	Tacoma, Wash.	—Puget Sound Brdcstg. Co., Rust Bldg.
WKBN	ae	500	1C	Youngstown, Ohio	—WKBN Brdcstg. Corp., 17 N. Champion St.
WMCA	ak	500	....	New York, N. Y.	—Knickerbocker Brdcstg. Co., 1697 Broadway
WNAX	ak	1000	C (5)	Yankton, S. D.	—WNAX Brdcstg. Co., Second and Capitol
WOSU	ak	750	1 (1)	Columbus, Ohio	—Ohio State University
WSYR	ak	250	BX	Syracuse, N. Y.	—315 Starret-Syracuse Bldg.
WWNC	ak	1000	N	Asheville, N. C.	—Citizen Brdcstg. Co., Inc., Flatiron Bldg.

580 kcys. (516.9)

CFPR	z	100	....	Prince Rupert, B.C.	—Felix E. Batt, Box 79
CHRC	ak	500	F	Quebec, Que.	—CHRC, Ltd., Victoria Hotel
CJGX	ae	100	F	Yorkton, Sask.	—155 Royal Alexandra Hotel, Winnipeg, Man.
CKCL	ae	100	F	Toronto, Ont.	—Dominion Battery Co., 444 University
CKUA	ak	500	....	Edmonton, Alta.	—University of Alberta
KMJ	ak	1000	C	Fresno, Calif.	—J. McClatchy Co., Van Ness and Calaveras
KSAC	ak	500	2 (1)	Manhattan, Kans.	—State College of Agriculture
WCHS	ak	500	(1)	Charleston, W. Va.	—WOBV, Inc., Ruffner Hotel
WDBO	ae	1000	C	Orlando, Fla.	—Orlando Brdcstg. Co., Box 1097
WIBW	ak	1000	C2 (5)	Topeka, Kans.	—11th and Topeka Blvd.
WTAG	ae	500	R	Worcester, Mass.	—Worcester Telegram, 18 Franklin St.

590 kcys. (508.2)

KHQ	ak	1000	R (2.5)	Spokane, Wash.	—Louis Wasmer, Inc., Sprague & Post.
WEEL	ak	1000	R	Boston, Mass.	—Edison Electric Co., 182 Tremont.
WKZO	ae	1000	DX	Kalamazoo, Mich.	—WKZO, Inc., Burdick Hotel
WOW	ae	5000	R(5)	Omaha, Nebr.	—Woodmen of the World, 4th and Farnam
XEPN	ak	50000	..	Piedras Negras, Coah.	—Piedras Negras Brdcstg. Co., Box 360

600 kcys. (499.7)

CFCF	ae	400	FN	Montreal, Que.	—Canadian Marconi Co., Royal Hotel
CJOR	ak	500	....	Vancouver, B. C.	—G. C. Chandler, Hotel Grosvenor
CMW	ak	1400	....	Havana, Cuba	—Paseo de Marti 105
CRWC	ak	500	F (1)	Windsor, Ont.	—C. R. B. Co., Guaranty Trust Bldg.,
FON	z	250	609	St. Pierre, Miq.	—
KFSD	ae	1000	B	San Diego, Calif.	—Airfan Radio Corp., U. S. Grant Hotel
WCAC	ak	500	2	Storrs, Conn.	—Connecticut State College
WCAO	ae	500	C (1)	Baltimore, Md.	—Monumental Radio Co., 811 W. Lanvale
WICC	ae	500	2 C (1)	Bridgeport, Conn.	—So. Conn. Brdcstg. Corp., Stratfield Hotel
WMT	ak	1000	B (2.5)	Cedar Rapids, Ia.	—Iowa Brdcstg. Co., Hotel Montrose
WREC	ak	1000	C (2.5)	Memphis, Tenn.	—WREC, Inc., Hotel Peabody

610 kcys. (491.5)

KFRC	ck	1000	C (5)	San Francisco, Cal.	—Don Lee Brdcstg. Sys., 1000 Van Ness Ave.
WDAF	ak	1000	R (5)	Kansas City, Mo.	—Kansas City Star, 1729 Grand Ave.
WIP	ae	1000	....	Philadelphia, Pa.	—Penn. Brdcstg. Corp., Gimbel Bldg.
WJAY	ae	500	D	Cleveland, Ohio	—Cleveland Brdcstg. Corp., 1224 Huron Road
XFX	ak	1000	....	Mexico City, D. F.	—Secretario de Educacion Publica.

620 kcys. (483.6)

KGW	ak	1000	R (5)	Portland, Ore.	—Oregonian Pub. Co., 325 Adler St.
KTAR	ae	1000	N	Phoenix, Ariz.	—KTAR Brdcstg. Corp., Heard Bldg.
WFLA	ae	1000	Na (5)	Clearwater, Fla.	—Chamber of Commerce, Box 119
WHJB	ak	250	D	Greensburg, Pa.	—Pittsburgh Radio Supply Co., 128 Penna. Ava.
WLZ	ak	500	C (1)	Bangor, Maine	—Maine Brdcstg. Co., 100 Main St.
WSUN	ae	1000	Na (5)	St. Petersburg, Fla.	—Chamber of Commerce, Recreation Pier
WTMJ	ae	1000	N (5)	Milwaukee, Wis.	—The Journal Co., 333 W. State St.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

630 kcys. (475.9)

CFCO	ak	100	F	Chatham, Ont.	—John Beardall, Wm. Pitt Hotel
CFGY	ae	1000	F	Charlottetown, P.E.I.	—Island Radio Co., 143 Great George St.
CJRC	ak	500	F(1.)	Winnipeg, Man.	—155 Royal Alexandra Hotel
CKOV	ak	100	F	Kelowna, B. C.	—Okanagan Brcdsters., Box 243
KFRU	ak	500	I (1)	Columbia, Mo.	—KFRU, Inc., Ninth and Elm Sts.
KGFX	ak	200	D	Pierre, S. D.	—Dana McNeil, Box 573
WGBF	ak	500	I	Evansville, Ind.	—Evansville on the Air, 519 Vine St.
WMAL	ak	250	B (5)	Washington, D. C.	—NBC, Inc., 712 - 11th St., N. W.
WOS	ak	500	1D	Jefferson City, Mo.	—State Highway Control, Capitol Bldg.
WPRO	ak	250	....	Providence, R. I.	—Cherry & Webb Brcdstg. Co., 15 Chestnut
XEZ	z	500	....	Merida, Yuc.	—Jorge L. Falomeque

640 kcys. (468.5)

CMBC	dj	150	....	Havana, Cuba.	—Maximo Gomez 139
KFI	ah	50000	R	Los Angeles, Calif.	—Earle C. Anthony, Inc., 1000 S. Hope St.
WAJU	ae	500	....	Columbus, Ohio	—Deshler-Wallick Hotel
WOI	ae	5000	D	Ames, Iowa	—Iowa State College
XEOX	ak	500	....	Saltillo, Coah.	—Antonio Garza C., Victoria 4 (altos)

650 kcys. (461.3)

WSM	ae	50000	N	Nashville, Tenn.	—National Life and Accident, 301 Seventh St.
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660 kcys. (454.3)

WAAW	ak	500	D	Omaha, Neb.	—Omaha Grain Exchange
WEAF	ak	50000	R	New York, N. Y.	—NBC, Inc., 30 Rockefeller Plaza

670 kcys. (447.5)

WMAQ	ak	50000	N	Chicago, Ill.	—NBC, Inc., Merchandise Mart
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680 kcys. (440.9)

CMCG	ak	150	Havana, Cuba.	—La Onda, S. A., Calle Malecon 340
KFEQ	ak	2500	D	St. Joseph, Mo.	—KFEQ, Inc., Schneider Bldg.
KFO	ak	50000	R	San Francisco, Cal.	—NBC, Inc., 111 Sutter St.
RDN	z	500	....	San Salvador, E.S.	—Republic of El Salvador
VAS	akn	2000	685	Glace Bay, N. S.	—Canadian Marconi Co., Ltd.
VOWR	ck	500	681	St. John's, Nfld.	—Wesley United Church, Box 157
WPTF	ae	5000	DnN	Raleigh, N. C.	—WPTF Radio Co., 324 Fayetteville St.

690 kcys. (434.5)

CFRB	ak	10000	C	Toronto, Ont.	—Rogers-Majestic Corp., 37 Bloor St.
CJ CJ	aj	100	F	Calgary, Alta.	—Albertan Pub. Co., New Albertan Bldg.
NAA	akn	1000	....	Arlington, Va.	—United States Navy
XET	ak	500	....	Monterrey, N. L.	—P. O. Box 203, Hidalgo.

700 kcys. (428.3)

WLW	ak	500000	N	Cincinnati, Ohio	—Crosley Radio Corp., 1329 Arlington St.
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710 kcys. (422.3)

KIRO	ae	500	Seattle, Wash.	—Tower Bldg.
KMPC	ak	500	Beverly Hills, Cal.	—Bev. Hills Brcdstg. Corp., 9631 Wilshire
WOR	ak	50000	....	Newark, N. J.	—Bamberger Brcdstg. Sys., 147 Market St.
XEN	ak	1000	Mexico City, D. F.	—G. de la Conde, Dolores No. 1

720 kcys. (416.4)

WGN	ak	50000	Chicago, Ill.	—WGN, Inc., 435 N. Michigan Ave.
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730 kcys. (410.7)

CFPL	ak	100	F	London, Ont.	—London Free Press, Richmond St.
CJCA	ah	1000	F	Edmonton, Alta.	—Edmonton Journal, 10122 - 100 A St.
CKAC	ck	5000	C	Montreal, Que.	—La Presse Pub. Co., 980 St. Catherine St.
GMK	ae	3000	....	Havana, Cuba	—Cia. Nacional de Radio, Hotel Plaza

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

740 kcys. (405.2)

KMMJ	ae	1000	D	Clay Center, Neb.	—The M. M. Johnson Co.
KTRB	ak	250	D	Modesto, Calif.	—McTammany & Bates, Box 405
WHEB	ak	250	D	Portsmouth, N. H.	—Granite State Brcdstg Corp., Box 522
WSB	ah	50000	N	Atlanta, Ga.	—Atlanta Journal, 7 N. Forsyth St.

750 kcys. (399.8)

CMCW	dk	150	....	Havana, Cuba	—Radio Pilot, San Lazaro 113
KGU	aj	2500	N	Honolulu, T. H.	—Advertiser Pub. Co., Kapiolani & South Sts.
WJR	ak	50000	C	Detroit, Mich.	—WJR, Inc., Fisher Bldg.
XEAM	z	7.5	....	Matamoros, Tams.	—Edificio Banco Longoria

760 kcys. (394.5)

CMHX	ak	200	....	Cienfuegos, Cuba	—F. Chavarry, P. O. Box 205
KXA	ae	250	(.5)	Seattle, Wash.	—American Radio Tel. Co., 312 Bigelow Bldg.
WBAL	ae	2500	BSy	Baltimore, Md.	—American Radio News Corp., Lexington Bldg.
WEW	ae	1000	D	St. Louis, Mo.	—St. Louis University, 221 N. Grand Blvd.
WJZ	ak	50000	BSy	New York, N. Y.	—NBC, Inc., 30 Rockefeller Plaza
XEOK	z	250	....	Tijuana, L. C.	—Carlos de la Sierra, Calle 5a, 312

770 kcys. (389.4)

CMBS	ak	150	....	Havana, Cuba	—Calzada y "H" St., Vedado, Havana
KFAB	ae	10000	CSy	Lincoln, Neb.	—KFAB Brcdstg. Co., Cornhusker Hotel
WBBM	ae	50000	CSy	Chicago, Ill.	—WBBM Brcdstg. Corp., 410 N. Michigan Ave.

780 kcys. (384.4)

CHWK	dk	100	F	Chilliwack, B. C.	—Chilliwack Brcdstg. Co., Box 452
CKSO	ak	1000	F	Sudbury, Ont.	—W. E. Mason, Grand Theatre Bldg.
CMJK	ak	250	....	Camaguey, Cuba	—Cia Nacional de Radio, Finlay No. 3
KELW	ak	500	2	Burbank, Calif.	—Magnolia Park Ltd., 3702 Magnolia Park Blvd.
KFDY	ae	1000	D	Brookings, S. D.	—South Dakota State College, Box L.
KFOD	ck	250	....	Anchorage, Alaska	—Anchorage Radio Club, 411 Fourth Ave.
KGHL	ak	1000	N (2.5)	Billings, Mont.	—Northwestern Auto Supply, 5th and Broadway
KTM	ak	500	2 (1)	Los Angeles, Calif.	—214 So. Vermont St.
WEAN	ae	500	C	Providence, R. I.	—Shepard Brcdstg. Serv., New Crown Hotel
WMC	ak	1000	N (5.)	Memphis, Tenn.	—WMC, Inc., Hotel Gayoso
WTAR	ae	500	N (1)	Norfolk, Va.	—WTAR Radio Corp., Bank of Commerce Bldg.
XEYZ	z	10000	....	Mexico City, D. F.	—Angel M. Diez, Avenida Juarez 48

790 kcys. (379.5)

CMGH	z	250	....	Matanzas, Cuba	—"Rialto," E. Blanchet 25
KGO	ak	7500	B	San Francisco, Cal.	—NBC, Inc., 111 Sutter St.
WGY	ak	50000	R	Schenectady, N. Y.	—General Electric Co., 1 River Road

800 kcys. (374.8)

HIX	ak	700	....	Trujillo, D. R.	—J. R. Saladin, Director General
WBAP	ak	50000	Na	Fort Worth, Tex.	—Ft. Worth Star-Telegram
WFAA	ak	50000	Na	Dallas, Tex.	—A. H. Belo Corp., Baker Hotel
WTBO	ak	250	D	Cumberland, Md.	—Associated Brcdstg. Corp., Box 794

810 kcys. (370.2)

CMCF	ak	600	....	Havana, Cuba	—Oscar Gutierrez, Paseo de Marti 9
WCCO	ae	50000	C	Minneapolis, Minn.	—Northwestern Brcdstg. Co., Nicoller Hotel
WNYC	ak	1000	D	New York, N. Y.	—City of N. Y., Centre & Duane Sts.
XFC	z	350	....	Aguascalientes, Ags.	—Gobierno del Estado de Aguascalientes

820 kcys. (365.6)

GMHW	ak	100	....	Cienfuegos, Cuba.	—Ramon Gonzales, Box 226
WHAS	aj	50000	C	Louisville, Ky.	—Courier-Journal, 300 W. Liberty St.
XEMZ	z	....	....	Coronado Isle, L. C.	—.....

830 kcys. (361.2)

KOA	ak	50000	N	Denver, Colo.	—NBC, Inc.
WEEU	ak	1000	D	Reading, Pa.	—Berks Brcdstg. Co., 533 Pennsylvania

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WHDH	ae	1000	Dn	Boston, Mass.	—Metheson Radio Co., 62 Boylston
WRUF	ae	5000	Dn	Gainesville, Fla.	—University of Florida

840 kcys. (356.9)

CFQC	ak	1000	F	Saskatoon, Sask.	—Electric Shop, Ltd., 216 First Ave.. No.
CRCT	ak	5000	FN	Toronto, Ont.	—C. R. B. C., 805 Davenport Road
VOGY	ak	400	....	St. John's, Nfld.	—Newfoundland Hotel
XERA	ck	250000	....	Villa Acuna, Coah.	—Brinkley Hospital (Del Rio, Texas).

850 kcys. (352.7)

CMBN	z	150	....	Havana, Cuba	—Calle Pozos Dulces 3, Rpt. Ensanche
KIEV	ak	250	D	Glendale, Calif.	—Cannon System, Ltd., Glendale.
TIEP	z	500	....	San Jose, C. R.	—Eduardo Pinto H., Apartado 257
WESG	ak	1000	C	Elmira, N. Y.	—Cornell University, Mark Twain Hotel
WKAR	ae	1000	D	East Lansing, Mich.	—Michigan State College
WWL	ae	10000	C	New Orleans, La.	—Loyola University, Roosevelt Hotel
XEFE	z	250	....	Nuevo Laredo	—R. T. Carranza, Km. 4 Carretera Laredo Mt.

860 kcys. (348.6)

WABC	ak	50000	C	New York, N. Y.	—Atlantic Brdctg. Corp., 485 Madison Ave.
WHB	ak	1000	D	Kansas City, Mo.	—WHB Brdctg. Co., Scarritt Bldg.
XEMO	ak	5000	....	Tijuana, L. C.	—Box 202, San Diego, Calif.

870 kcys. (344.6)

WENR	ak	50000	Na	Chicago, Ill.	—NBC, Inc., Merchandise Mart
WLS	ae	50000	Na	Chicago, Ill.	—Agricultural Brdctg. Co., 1230 Wash. Blvd.

880 kcys. (340.7)

CFJC	ak	100	F	Kamloops, B. C.	—Review Publishing Co., Wilcox-Hall Bldg.
CMQ	ak	500	....	Havana, Cuba	—25 Numero 445, Vedado, Havana
CRCO	ak	1000	F	Ottawa, Ont.	—C. R. B. C., Chateau Laurier Hotel
KFKA	ak	500	2 (1)	Greeley, Colo.	—Mid-Western Radio Corp., Box 735
KLX	ae	1000	....	Oakland, Calif.	—Tribune Tower
KPOF	ae	500	2	Denver, Colo.	—Pillar of Fire, 1845 Champa St.
WCOC	ae	500	(1)	Meridian, Miss.	—Mississippi Brdctg. Co., Box 603
WGBI	ae	500	1	Scranton, Pa.	—Scranton Brdcters, Inc., 1000 Wyoming Ave.
WPHR	ak	500	D	Petersburg, Va.	—WLBG, Inc., Medical Arts Bldg.
WOAN	ae	250	1	Scranton, Pa.	—Scranton Times, 149 Penn Ave.
WSUI	ae	500	(1)	Iowa City, Iowa	—State University of Iowa

890 kcys. (336.9)

KARK	ak	250	(.5) X	Little Rock, Ark.	—N. S. L. Building
KFNF	ak	500	2 (1)	Shenandoah, Iowa	—Henry Field, 407 Sycamore St.
KFPY	ak	1000	C X	Spokane, Wash.	—Symons Brdctg. Co., Symons Bldg.
KUSD	ae	500	2	Vermillion, S. D.	—University of South Dakota
WBAA	ak	1000	D	W. Lafayette, Ind.	—Purdue University
WGST	ak	1000	C	Atlanta, Ga.	—Ga. School of Technology, Ansley Hotel
WILL	ak	250	2 (1)	Urbana, Ill.	—University of Illinois
WJAR	ae	500	R	Providence, R. I.	—Outlet Co., Weybossett St.
WMMN	ak	500	C(1)	Fairmount, W. Va.	—W. Va. Brdctg Corp., 208 Main St.
XEW	ak	50000	....	Mexico City, D. F.	—Cadena Radiodifusora Mexicana, Box 2516

900 kcys. (333.1)

KGBU	ak	500	....	Ketchikan, Alaska	—Alaska Radio & Serv. Co., Mile 5, Wards Cove
KHJ	ak	1000	C (5)	Los Angeles, Calif.	—Don Lee System, 7th and Bixel Sts.
KSEI	ck	250	(.5)	Pocatello, Idaho	—Radio Service Corp., 141 So. 6th St.
WBEN	ak	1000	R (5)	Buffalo, N. Y.	—WBEN, Inc., Hotel Statler
WELI	z	500	D	New Haven, Conn.	—Patrick J. Goode
WFMD	ah	500	D	Frederick, Md.	—Francis Scott Key Hotel
WJAX	ae	1000	N (5)	Jacksonville, Fla.	—City of Jacksonville
WKY	ak	1000	N	Oklahoma City, Okla.	—WKY Radiophone Co., Plaza Court Bldg.
WLBL	ak	2500	D	Stevens Point, Wis.	—State of Wisc., Fox Theater Bldg.
WTAD	ak	500	D	Quincy, Ill.	—Illinois Brdctg. Corp., State and 6th

910 kcys. (329.6)

CJAT	ak	1000	F	Trail, B. C.	—Kootenay Brdctg. Co., Box 1959
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NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

CRMC ak 5000 F Montreal, Que. —C. R. B. C., 1231 St. Catherines St., W.
 XENT ak 150000 ... Nuevo Laredo, Tams. —P. O. Box 410, Laredo, Texas

920 kcys. (325.9)

CMX	ae	1000	....	Havana, Cuba	—Calle Obrapia y Oficios
HHK	ae	1000	....	Port-au-Prince, Haiti	—Haitian Government
KFEL	ak	500	a	Denver, Colo.	—Eugene O'Fallon, Inc., Albany Hotel
KOMO	ak	1000	R (5)	Seattle, Wash.	—Fishers Blend Station, Inc., Skinner Bldg.
KPRC	ak	1000	N (5)	Houston, Texas	—Houston Printing Co., Lamar Hotel
KVOD	ak	500	a	Denver, Colo.	—Colorado Radio Corp., Continental Oil Bldg.
WAAF	ak	1000	D	Chicago, Ill.	—Drovers Journal Pub. Co., Palmer House
WORL	ae	500	D	Needham, Mass.	.....
WPEN	ak	250	(5) 1	Philadelphia, Pa.	—Wm. Penn Brdcstg. Co., 22nd and Walnut St.
WRAX	ak	250	1 (5)	Philadelphia, Pa.	—WRAX Brdcstg. Co., 217 So. Broad St.
WSPA	ae	1000	D	Spartanburg, S. C.	—Virgil V. Evans, Ravenel & Avant Sts.
WWJ	ak	1000	R (5)	Detroit, Mich.	—The Detroit News, 616 Lafayette Blvd.
XEAA	ak	200	....	Mexicali, L. C.	—P. O. Box 714, Calexico, Calif.

930 kcys. (322.4)

CFAC	ak	100	F	Calgary, Alta.	—T. P. & C. Brdcstg. Co., Southam Bldg.
CFCH	ak	100	F	North Bay, Ont.	—Roy H. Thompson, Capitol Theater Bldg.
CFLC	ae	100	....	Prescott, Ont.	—Radio Assn. of Prescott, 307 George St.
CHNS	ae	1000	F	Halifax, N. S.	—Maritime Brdcstg. Co., Lord Nelson Hotel
CKPC	ae	100	F	Brantford, Ont.	—Telephone City Brdcstg. Ltd., Arcade Bldg.
CKPR	ak	100	F	Fort William, Ont.	—Dougall Motor Co., Royal Edward Hotel
KGBZ	ak	1000	2 (2.5)	York, Neb.	—KGBZ Brdcstg. Co., 719 Grant Ave.
KMA	ak	1000	2 (2.5)	Shenandoah, Iowa	—Earl E. May Seed and Nursery Co.
KROW	ak	1000	....	Oakland, Calif.	—Educational Brdcstg. Corp., 1803 Franklin St.
TRH	z	50	....	San Jose, C. R.	.....
WBRC	ak	1000	C	Birmingham, Ala.	—Birmingham Brdcstg. Co., Bankhead Hotel
WDBJ	ae	1000	C(5)	Roanoke, Va.	—Times World Corp., P. O. Box 150
XEBH	z	500	....	Hermosillo, Sonora	—Carlos Halderamma, Obregon 10

940 kcys. (319.0)

KOIN	ak	1000	C (5)	Portland, Ore.	—KOIN, Inc., New Heathman Hotel
VOAS	ak	100	....	St. John's, Nfld.	—Ayre and Sons, Ltd., Water St.
WAAT	ae	500	D	Jersey City, N. J.	—Bremer Brdcstg. Corp., 50 Journal Sq.
WAVE	bk	1000	N	Louisville, Ky.	—WAVE, Inc., 1525 Brown Hotel
WCSH	ae	1000	R (2.5)	Portland, Maine	—Congress Square Hotel Co.
WDAY	ae	1000	N (5)	Fargo, N. D.	—WDAY, Inc., Black Bldg., 118 Broadway
WHA	ak	2500	D	Madison, Wis.	—University of Wisconsin, Radio Hall
XEFO	ak	5000	(XFO)	Mexico City, D. F.	—Av. 5 de Mayo 19

950 kcys. (315.6)

CJOC	ak	100	F	Lethbridge, Alta.	—H. R. Carson, Ltd., Marquis Hotel
CMCD	ak	250	....	Havana, Cuba	—Calle "G" y 25, Vedado, Havana
CRCS	ak	100	F	Chicoutimi, Que.	—C. R. B. C., 4 Rue Larouche
KFWB	ak	1000	(5)	Hollywood, Calif.	—Warner Bros. Motion Pictures, Inc.
KHSL	ak	250	D	Chico, Calif.	—Golden Empire Brdcstg. Co.
KMBC	ae	1000	C (5)	Kansas City, Mo.	—Midland Brdcstg. Co., Pickwick Hotel
WRC	ak	500	R (1)	Washington, D. C.	—NBC, Inc., National Press Bldg.
YNVA	z	30	....	Managua, Nic.	.....

960 kcys. (312.3)

CKY	ak	15000	F	Winnipeg, Man.	—Manitoba Telephone System, Sherbrooke St.
XEAW	ck	50000	....	Reynosa, Tams.	—Cia. Int. Difurosa Reynosa, Aptdo. 6

970 kcys. (309.1)

CMBY	z	150	....	Havana, Cuba.	—Calle Infanta 132
KJR	ak	5000	B	Seattle, Wash.	—Fishers Blend Station, Skinner Bldg.
WCFL	ae	5000	B	Chicago, Ill.	—Chi. Fed. of Labor, 666 Lake Shore Drive
WIBG	ak	100	D	Glenside, Pa.	—Seaboard Radio Brdcstg. Corp.

980 kcys. (306.0)

KDKA	ae	50000	B	Pittsburgh, Pa.	—Westinghouse Elec. & Mfg. Co., Grant Bldg.
XEF	z	100	....	Juarez, Chih.	.....

990 kcys. (302.8)

WBZ	ak	50000	BSy	Boston, Mass.	—Westinghouse El. & Mfg. Co., Hotel Bradford
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NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WBZA	ak	1000	BSY	Springfield, Mass.	—Westinghouse El. & Mfg. Co., Hotel Kimball
XEAF	ak	500	....	Nogales, Sonora	—Francisco G. Elias, Hotel Central
XEK	ak	100	....	Mexico City, D. F.	—Arturo Martinez, Jalapa No. 51
XES	dk	250	....	Tampico, Tams.	—Fernando Sada, Box 309

1000 kcys. (299.8)

CMBZ	ak	150	....	Havana, Cuba	—M. y G. Salas, San Rafael No. 14
KFVD	ak	250	Dn	Los Angeles, Calif.	—E. L. Cord, 645 Mariposa
TIGH	z	500	....	San Jose, C. R.	—.....
WHO	ak	50000	R	Des Moines, Iowa	—Central Brdcstg. Co., 914 Walnut St.
XEBK	z	100	....	Nuevo Laredo, Tams.	—.....
XEY	z	10	....	Merida, Yuc.	—Ramon Rubio, Calle 64, No. 568

1010 kcys. (296.9)

CHML	ak	100	F	Hamilton, Ont.	—Maple Leaf Radio Co., Pigott Bldg.
CHWC	ak	500	3F	Regina, Sask.	—R. H. Williams & Sons, Kitchener Hotel
CKCD	ak	100	....	Vancouver, B. C.	—Van. Daily Province, 142 Hastings St., W.
CKCK	ak	500	3F	Regina, Sask.	—Leader-Post, Ltd., 1853 Hamilton St.
CKCO	ak	100	F	Ottawa, Ont.	—Dr. Geldert, 272 Somerset St., W.
CKIC	ak	50	....	Wolfville, N. S.	—Acadia University
CKWX	ak	100	F	Vancouver, B. C.	—Western Brdcstg. Co., Hotel Georgia
CMIA	ak	50	....	Camaguey, Cuba	—Rafael Valdez, P. O. Box 64
KGGF	ak	1000	2	Coffeyville, Kans.	—Powell & Platz, Coffeyville Journal Bldg.
KQW	ak	1000	....	San Jose, Calif.	—87 E. San Antonio St.
TIGA	z	30	1014	Cartago, C. R.	—.....
WHN	ae	1000	(5)	New York, N. Y.	—Marcus Loew Agency, 1540 Broadway
WNAD	ae	1000	2	Norman, Okla.	—University of Oklahoma
WNOX	ak	1000	C (2)	Knoxville, Tenn.	—Continental Brdcstg. Corp., Hotel Johnson
XEU	ak	250	....	Veracruz, Ver.	—Fernando Pazos S., Independencia 98

1020 kcys. (293.9)

KYW	ak	10000	R	Philadelphia, Pa.	—Westinghouse Elec. Co., 1622 Chestnut St.
WDZ	ak	250	D	Tuscola, Ill.	—WDZ Brdcstg. Co., Inc.
XEJ	ak	1000	....	Juarez, Chih.	—Juan G. Buttner, P. O. Box 111

1030 kcys. (291.1)

CFCN	ak	10000	....	Calgary, Alta.	—Grant & Love, Toronto Gen. Trust Bldg.
CKLW	ag	5000	....	Windsor, Ont.	—Guaranty Trust Building
CMCY	ak	1000	....	Havana, Cuba	—Manuel Outran, Calle "G" 215, Vedado
XEB	ak	10000	....	Mexico City, D. F.	—El Buen Tono, S. O., Aptdo. 79-44

1040 kcys. (288.3)

KRLD	ae	10000	C	Dallas, Texas	—KRLD Radio Corp., Adolphus Hotel
KWJJ	ak	500	....	Portland, Ore.	—KWJJ Brdcstg. Co., 622 Salmon St.
WTIC	ah	50000	....	Hartford, Conn.	—Travelers Brdcstg. Co., 26 Grove St.

1050 kcys. (285.5)

CMKD	ak	250	....	Santiago, Cuba	—Radioemisora Oriental, Box 23
CRCK	ak	1000	F	Quebec, Que.	—C. R. B. C., Chateau Frontenac Hotel
KFPB	ak	5000	Dn	Abilene, Kans.	—Farmers and Bankers Life, Box 345
KNX	ak	50000	....	Hollywood, Calif.	—West. Brdcstg. Co., 1558 N. Vine St.
TIFA	z	75	....	San Jose, C. R.	—.....

1060 kcys. (282.8)

CMBX	ak	200	....	Havana, Cuba.	—Alberto Alvarez, San Miguel 194
KTHS	ae	10000	N	Hot Springs, Ark.	—Chamber of Commerce, Box 86
VOAC	z	40	1065	St. John's, Nfld.	—.....
WBAL	ak	10000	B	Baltimore, Md.	—American Radio News Corp., Lexington Bldg.
WJAG	ak	1000	D	Norfolk, Neb.	—Norfolk Daily News
XEA	ak	500	....	Guadalajara, Jal.	—Alberto Palos Sauza

1070 kcys. (280.2)

CMHA	z	50	....	Sagua la Grande, C.	—Abelardo Menocal, Carrillo No. 31
KJBS	ak	500	Dn	San Francisco, Cal.	—Julius Brunton & Sons, 1380 Bush St.
WCAZ	ak	100	D	Carthage, Ill.	—Superior Brdcstg. Service, 97 1/2 Adams
WTAM	ak	50000	R	Cleveland, Ohio	—NBC, Inc., 1367 E. 6th St.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1080 kcys. (277.6)

WBT	ak	5000	C	Charlotte, N. C.	—Station WBT, Inc., Wilder Bldg.
WCBD	ak	5000	1Dn	Waukegan, Ill.	—WCBD, Inc., Karcher Hotel
WMBI	ak	5000	1Dn	Chicago, Ill.	—Moody Bible Institute, 153 Institute Place

1090 kcys. (275.1)

KMOX	ak	50000	C	St. Louis, Mo.	—Voice of St. Louis, 401 S. 12th St.
XEAQ	ak	1000	....	Rosarito, L. C.	—P. O. Box 32, Tijuana

1100 kcys. (272.6)

CRCV	ak	500	F	Vancouver, B. C.	—C. R. B. C., 1150 Main St.
GDMD	ak	1000	D	Stockton, Calif.	—E. F. Pepper, 42 S. California St.
KWKH	ae	10000	C	Shreveport, La.	—Times Pub. Co., Spring & Fannin Sts.
WLWL	ae	5000	1	New York, N. Y.	—415 W. 59th St.
WPG	ak	5000	1C	Atlantic City, N. J.	—City of Atlantic City, Convention Hall
XEL	z	250	....	Mexico City, D. F.	—Plaza de San Juan 15

1110 kcys. (270.1)

CMCJ	ak	500	....	Havana, Cuba.	—Rafael Rodriguez, Estevez No. 4
KSOO	ak	2500	Dn	Sioux Falls, S. D.	—Sioux Falls Brcdstg. Co., Carpenter Hotel
WRVA	ae	5000	N	Richmond, Va.	—Larus & Bros. Co., 22nd and Gary Sts.
XELO	z	10000	....	Piedras Negras, Co.	—Piedras Negras Brcdstg. Co., Madero 53

1120 kcys. (267.7)

CHLP	ak	100	F	Montreal, Que.	—La Patrie Pub. Co., Sun Life Bldg.
CHSJ	ae	500	F (1)	St. John, N. B.	—N. B. Brcdstg. Co., Admiral Beatty Hotel
CKOC	ae	500	F (1)	Hamilton, Ont.	—Westworth Brcdstg. Co., Wentworth Bldg.
CKX	ak	100	F	Brandon, Man.	—Manitoba Telephone System, City Hall Sq.
CMFG	dk	150	....	Matanzas, Cuba	—Calle Grnl. Betancourt 51
CMKM	ak	200	....	Manzanillo, Cuba	—Merchan Figeredo, P. O. Box 4
KFIO	ae	100	D	Spokane, Wash.	—Spokane Brcdstg. Corp., Ziegler Bldg.
KFSG	ag	500	a(2.5)	Los Angeles, Calif.	—Echo Park Assn., 1100 Glendale Blvd.
KRKC	aj	500	a(2.5)	Los Angeles, Calif.	—Radio Brcdsters. Inc., 815 Spring Arcade
KRSC	ak	100	D	Seattle, Wash.	—Radio Sales Corp., Wash. Athletic Club
WCOP	ak	500	D	Boston, Mass.	—Joseph M. Kirby, Hotel Copley-Plaza
WDEL	ak	250	(.5)	Wilmington, Del.	—WDEL, Inc., 10th and King Sts.
WISN	ak	250	(1)	Milwaukee, Wis.	—Hearst Radio, Inc., 123 W. Michigan St.
WTAW	ae	500	....	College Station, Tex.	—Agricultural & Mechanical College

1130 kcys. (265.3)

CMJI	ak	50	....	Ciego de Avila, Cuba	—Gilberto Gesse Lopez, Independencia 95
KSL	ae	50000	C	Salt Lake City, Utah	—Radio Service Corp., Vermont Bldg.
WJJD	ak	20000	Dn	Chicago, Ill.	—WJJD, Inc., 201 N. Wells St.
WOV	ag	1000	D	New York, N. Y.	—International Brcdstg. Co., 132 W. 43rd St.

1140 kcys. (263.0)

CMBG	z	200	....	Havana, Cuba	—John L. Stowers, Hospital No. 100
KVOO	ak	25000	1N	Tulsa, Okla.	—Southwestern Sales Corp., Wright Bldg.
WAPI	ae	5000	1N	Birmingham, Ala.	—WAPI Brcdstg. Corp., Protective Life Bldg.
WSPR	z	500	P	Springfield, Mass.	—Connecticut Valley Brcdstg. Co.

1150 kcys. (260.7)

CMJF	z	200	....	Camaguey, Cuba	—John L. Stowers, Republica No. 88
WHAM	ae	50000	B	Rochester, N. Y.	—Stromberg-Carlson Mfg. Co., 100 Carlson Rd.
XED	ak	2500	1155	Guadalajara, Jal.	—Cia. Radiofonografica, Apto. 197
XEFL	z	250	....	Tijuana, L. C.	—P. O. Box 6, San Diego, Calif.
XEH	ak	250	....	Monterrey, N. L.	—Tarnava y Cia., P. O. Box 147
XEWZ	ak	100	....	Mexico City, D. F.	—Jesus Valezzi E., P. O. Box 291

1160 kcys. (258.5)

CMHJ	z	100	....	Cienfuegos, Cuba	—Romualdo Ugalde, Sta. Elena 104
WOWO	ae	10000	1C	Fort Wayne, Ind.	—Main Auto Supply Co., 213 W. Main St.
WWVA	ak	5000	1C	Wheeling, W. Va.	—W. Va. Brcdstg. Corp., Hawley Bldg.
XEAS	z	100	....	Saltillo, Coah.	—“La Voz del Comercio en Saltillo.”

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

XEC z 30 Tijuana, L. C. —Luis F. Encisco, Teatro Zaragoza
 XESL z Tijuana, L. C. —.....

1170 kcys. (256.3)

CMBD z 150 Havana, Cuba —Luis Perez G., Calle 17. 3, Vedado
 WCAU ae 50000 C Philadelphia, Pa. —WCAU Brcdstg. Corp., 1622 Chestnut St.

1180 kcys. (254.1)

CMJO ak 50 Ciego de Avila, Cuba —B. Ildefonso, Calle Maceo y C. Central
 KEX ak 5000 2B Portland, Ore. —Oregonian Pub. Co., Oregonian Bldg.
 KOB ak 10000 2 Albuquerque, NM. —Albuquerque Journal, Box 1319
 VE9EK ak 10 1185 Montmagny, Que. —J. A. Marquis, Box 52
 WDG Y ak 1000 Dn (5) Minneapolis, Minn. —Dr. Geo. W. Young, 909 W. Broadway
 WINS ak 1000 New York, N. Y. —Hearst Radio, Inc., 114 E. 58th St.
 WMAZ ak 1000 Macon, Ga. —Southeastern Brcdstg. Co., 211 Cotton Ave.
 XEFA z 500 Mexico City, D. F. —Eduardo Limon S., Mediterraneo 236

1190 kcys. (252.0)

HJJ z 15 1195 Trujillo, D.R. —Tuto Baez, Hostos 34
 VONF ak 500 1195 St. John's, Nfld. —Dominion Brcdstg. Co., Ltd., Box 135
 WATR ak 100 D Waterbury, Conn. —WATR, Inc., 47 Grand St.
 WOAI ak 50000 N San Antonio, Tex. —Southland Industries, Inc., 1038 Navarro
 WSAZ ak 1000 Huntington, W. Va. —WSAZ, Inc., P. O. Box 729

1200 kcys. (249.9)

GHAB ak 100 F Moose Jaw, Sask. —CHAB, Ltd., P. O. Box 26
 CKNX ak 50 Wingham, Ont. —Wingham Radio Club, Box 65
 CKTB ae 100 F St. Catharines, Ont. —E. T. Sandell, Welland House
 CMCO ak 150 Havana, Cuba —Enrique Lasanta, Calle Oficios 116
 KADA ak 100 D Ada, Okla. —C. C. Morris
 KBTM ak 100 D Jonesboro, Ark. —Jay P. Beard
 KFJB ak 100 (25) Marshalltown, Iowa —Marshall Elec. Co., Inc., 1603 W. Main St.
 KF XD ae 100 (25) Nampa, Idaho —Frank E. Hurt, 1024 Twelfth Ave., S.
 KF XJ ak 100 (25) Grand Junc., Colo. —Western Slope Brcdstg. Co., Hillcrest Manor
 KGDE ak 100 (25) Fergus Falls, Minn. —C. L. Jaren
 KGEK ak 100 Sterling, Colo. —Elmer G. Beehler, 109 W. 2nd St.
 KGFJ ae 100 Los Angeles, Calif. —Ben S. McGlashan, 1417 S. Figueroa
 KGHI ak 100 (25) Little Rock, Ark. —Arkansas Brcdstg. Co., Marion Hotel
 KMLB ak 100 Monroe, La. —Liners Brcdstg. Station, Francis Hotel
 KSUN ak 100 Lowell, Ariz. —Copper Electrical Co., Drawer C
 KVOS dk 100 Bellingham, Wash. —KVOS, Inc., 115 W. Magnolia St.
 KWG ak 100 C Stockton, Calif. —Medico-Dental Building
 WABI ak 100 Bangor, Maine —Community Brcdstg. Service
 WAIM ak 100 Anderson, S. C. —Anderson College
 WBBZ ak 100 Ponca City, Okla. —C. L. Carrell, 407 W. South Ave.
 WBNO ak 100 i New Orleans, La. —Coliseum Baptist Church, Hotel New Orleans
 WCAT ak 100 D Rapid City, S. D. —South Dakota State School of Mines
 WCAX ak 100 Burlington, Vt. —Burlington Daily News, 203 College St.
 WCLO ak 100 Janesville, Wis. —Gazette Prtg. Co., 200 E. Milwaukee St.
 WCPO ak 100 (25) Cincinnati, Ohio —Continental Radio Co., Hotel Sinton
 WEST ae 100 3 (25) Easton, Pa. —Lancaster Broadcasting Service
 WFAM ak 100 8 South Bend, Ind. —South Bend Tribune, 225 W. Colfax Ave.
 WHBC ak 100 (25) Canton, Ohio —Edw. P. Graham, 319 Tuscola St., W.
 WHBY ak 100 (25) Green Bay, Wis. —WHBY, Inc., Bellin Bldg.
 WIBX ae j 100 (3) C Utica, N. Y. —WIBX, Inc., First Nat'l Bank Bldg.
 WIL ak 100 (25) St. Louis, Mo. —Missouri Brcdstg. Corp., Melbourne Hotel
 WJBC ak 100 6 (25) Bloomington, Ill. —Kaskaskia Brcdstg. Co.
 WJBL ak 100 6 Decatur, Ill. —Commodore Brcdstg. Co., Gushard Bldg.
 WJBW ak 100 i New Orleans, La. —C. C. Carlson, Godchaux Bldg.
 WJNO z 100 P W. Palm Beach, Fla. —Hazelwood, Inc.
 WKBO ak 100 3 (25) Harrisburg, Pa. —Keystone Brcdstg. Corp., Penn Harris Hotel
 WLVA ak 100 (25) Lynchburg, Va. —Lynchburg Brcdstg. Corp., 915 Main St.
 WMFR ae 100 D High Point, N. C. —Hart and Nelson
 WMPC ak 100 (25) Lapeer, Mich. —First Methodist Church, 81 Liberty St.
 WNRI ak 100 (25) Newport, R. I. —S. George Webb, 21 Bull St.
 WRBL ak 100 Columbus, Ga. —WRBL, Inc., Royal Theater Bldg.
 WTH T z 100 DP Hartford, Conn. —Hartford Times, Inc.
 WWAE ae 100 8 Hammond, Ind. —Hammond-Calumet Brcdstg. Corp.
 z 100 Redding, Calif. —Golden Empire Brcdstg. Co.

1210 kcys. (247.8)

CJCS z 50 Stratford, Ont. —M. I. Higgins, 151 Ontario St.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

<table border="0" style="width: 100%;"> <tr><td>CJCU</td><td>z</td><td>50</td><td>....</td><td>Aklavik, N. W. T.</td></tr> <tr><td>CKBI</td><td>ak</td><td>100</td><td>F</td><td>Prince Albert, Sask.</td></tr> <tr><td>CKCH</td><td>ak</td><td>100</td><td>F</td><td>Hull, Que.</td></tr> <tr><td>CKMC</td><td>ak</td><td>50</td><td>....</td><td>Cobalt, Ont.</td></tr> <tr><td>CMHI</td><td>ak</td><td>150</td><td>....</td><td>Santa Clara, Cuba</td></tr> <tr><td>KASA</td><td>ck</td><td>100</td><td>....</td><td>Elk City, Okla.</td></tr> <tr><td>KDLR</td><td>ak</td><td>100</td><td>....</td><td>Devils Lake, N. D.</td></tr> <tr><td>KDON</td><td>z</td><td>100</td><td>....</td><td>Del Monte, Calif.</td></tr> <tr><td>KFJI</td><td>ak</td><td>100</td><td>....</td><td>Klamath Falls, Ore.</td></tr> <tr><td>KFOR</td><td>ae</td><td>100</td><td>(25)</td><td>F Lincoln, Neb.</td></tr> <tr><td>KFPW</td><td>ak</td><td>100</td><td>....</td><td>Fort Smith, Ark.</td></tr> <tr><td>KFVS</td><td>ak</td><td>100</td><td>6(.25)</td><td>Cape Girardeau, Mo.</td></tr> <tr><td>KFXM</td><td>ak</td><td>100</td><td>9</td><td>San Bernardino, Calif.</td></tr> <tr><td>KGY</td><td>ak</td><td>100</td><td>....</td><td>Olympia, Wash.</td></tr> <tr><td>KIUL</td><td>ak</td><td>100</td><td>....</td><td>Garden City, Kans.</td></tr> <tr><td>KPPC</td><td>ak</td><td>50</td><td>9</td><td>Pasadena, Calif.</td></tr> <tr><td>KVSO</td><td>ak</td><td>100</td><td>D</td><td>Ardenora, Okla.</td></tr> <tr><td>KWTN</td><td>ak</td><td>100</td><td>....</td><td>Watertown, S. D.</td></tr> <tr><td>TGW</td><td>ak</td><td>10000</td><td>....</td><td>Guatemala City</td></tr> <tr><td>WALR</td><td>ak</td><td>100</td><td>....</td><td>Zanesville, Ohio</td></tr> <tr><td>WBAX</td><td>ae</td><td>100</td><td>....</td><td>Wilkes Barre, Pa.</td></tr> <tr><td>WBBL</td><td>ak</td><td>100</td><td>S</td><td>Richmond, Va.</td></tr> <tr><td>WBRB</td><td>ak</td><td>100</td><td>3</td><td>Red Bank, N. J.</td></tr> <tr><td>WCOR</td><td>ak</td><td>100</td><td>....</td><td>Columbus, Ohio</td></tr> <tr><td>WCRW</td><td>ae</td><td>100</td><td>4</td><td>Chicago, Ill.</td></tr> <tr><td>WEBQ</td><td>ae</td><td>100</td><td>6(.25)</td><td>Harrisburg, Ill.</td></tr> <tr><td>WEDC</td><td>ae</td><td>100</td><td>4</td><td>Chicago, Ill.</td></tr> <tr><td>WFAS</td><td>ak</td><td>100</td><td>3</td><td>White Plains, N. Y.</td></tr> <tr><td>WGBB</td><td>ae</td><td>100</td><td>3</td><td>Freeport, N. Y.</td></tr> <tr><td>WGCM</td><td>ae</td><td>100</td><td>(25)</td><td>Gulfport, Miss.</td></tr> <tr><td>WGNV</td><td>ak</td><td>100</td><td>3</td><td>Chester, N. Y.</td></tr> <tr><td>WHBF</td><td>ak</td><td>100</td><td>(25)</td><td>Rock Island, Ill.</td></tr> <tr><td>WHBU</td><td>ak</td><td>100</td><td>(25)</td><td>Anderson, Ind.</td></tr> <tr><td>WIBU</td><td>ak</td><td>100</td><td>(25)</td><td>Poynette, Wis.</td></tr> <tr><td>WJBY</td><td>ak</td><td>100</td><td>....</td><td>Gadsden, Ala.</td></tr> <tr><td>WJEM</td><td>z</td><td>100</td><td>D</td><td>Hagerstown, Md.</td></tr> <tr><td>WJIM</td><td>z</td><td>100</td><td>(25)</td><td>Lansing, Mich.</td></tr> <tr><td>WKW</td><td>ae</td><td>100</td><td>(25)</td><td>Akron, Ohio</td></tr> <tr><td>WKOK</td><td>ak</td><td>100</td><td>....</td><td>Sunbury, Pa.</td></tr> <tr><td>WMBC</td><td>ak</td><td>100</td><td>C(.25)</td><td>Richmond, Va.</td></tr> <tr><td>WMFG</td><td>z</td><td>100</td><td>....</td><td>Hibbing, Minn.</td></tr> <tr><td>WMFN</td><td>ak</td><td>100</td><td>....</td><td>Clarksdale, Miss.</td></tr> <tr><td>WOC</td><td>ak</td><td>50</td><td>....</td><td>Jamestown, N. Y.</td></tr> <tr><td>WOMT</td><td>ak</td><td>100</td><td>....</td><td>Manitowoc, N. Y.</td></tr> <tr><td>WPAX</td><td>ak</td><td>250</td><td>D</td><td>Thomasville, Ga.</td></tr> <tr><td>WSAY</td><td>z</td><td>100</td><td>DP</td><td>Rochester, N. Y.</td></tr> <tr><td>WSBC</td><td>ae</td><td>100</td><td>....</td><td>Chicago, Ill.</td></tr> <tr><td>WSIX</td><td>ak</td><td>100</td><td>Y</td><td>Springfield, Tenn.</td></tr> <tr><td>WSOC</td><td>ak</td><td>100</td><td>N(.25)</td><td>Charlotte, N. C.</td></tr> <tr><td>WTAX</td><td>ak</td><td>100</td><td>....</td><td>Springfield, Ill.</td></tr> <tr><td>XEAT</td><td>z</td><td>50</td><td>....</td><td>Hidalgo, Chih.</td></tr> <tr><td>XEF</td><td>z</td><td>50</td><td>....</td><td>Durango, Dgo.</td></tr> <tr><td>XEFV</td><td>ak</td><td>100</td><td>....</td><td>Juarez, Chih.</td></tr> <tr><td>XETH</td><td>ak</td><td>100</td><td>....</td><td>Puebla, Pue.</td></tr> </table>	CJCU	z	50	Aklavik, N. W. T.	CKBI	ak	100	F	Prince Albert, Sask.	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WJEM	z	100	D	Hagerstown, Md.	WJIM	z	100	(25)	Lansing, Mich.	WKW	ae	100	(25)	Akron, Ohio	WKOK	ak	100	Sunbury, Pa.	WMBC	ak	100	C(.25)	Richmond, Va.	WMFG	z	100	Hibbing, Minn.	WMFN	ak	100	Clarksdale, Miss.	WOC	ak	50	Jamestown, N. Y.	WOMT	ak	100	Manitowoc, N. Y.	WPAX	ak	250	D	Thomasville, Ga.	WSAY	z	100	DP	Rochester, N. Y.	WSBC	ae	100	Chicago, Ill.	WSIX	ak	100	Y	Springfield, Tenn.	WSOC	ak	100	N(.25)	Charlotte, N. C.	WTAX	ak	100	Springfield, Ill.	XEAT	z	50	Hidalgo, Chih.	XEF	z	50	Durango, Dgo.	XEFV	ak	100	Juarez, Chih.	XETH	ak	100	Puebla, Pue.	<table border="0" style="width: 100%;"> <tr><td>—Dr. J. A. Urquarhart, Dept. of Interior</td></tr> <tr><td>—Prince Albert Radio Club, Canada Bldg.</td></tr> <tr><td>—CKCH Brcdstg. Co., Standish Hall Hotel</td></tr> <tr><td>—R. L. MacAdam</td></tr> <tr><td>—Lavis y Paz, Independencia No. 34</td></tr> <tr><td>—E. M. Woody, Casa Grande Hotel</td></tr> <tr><td>—KDLR, Inc., 1025 Third St.</td></tr> <tr><td>—Richard F. 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Poplar</td></tr> <tr><td>—Emil Denemark, 3850 Ogden Ave.</td></tr> <tr><td>—Westchester Brcdstg. Corp., Hotel Roger Smith</td></tr> <tr><td>—H. H. Carman, 64 S. Grove St.</td></tr> <tr><td>—WGCM, Inc.</td></tr> <tr><td>—Peter Goelet (Orange County)</td></tr> <tr><td>—Rock Island Brcdstg. Co., Hotel Harms</td></tr> <tr><td>—Anderson Brcdstg. Corp., Box 816</td></tr> <tr><td>—Wm. C. Forrest, R. F. D. No. 3</td></tr> <tr><td>—Gadsden Brcdstg. Co., 112 N. 8th St.</td></tr> <tr><td>—Hagerstown Brcdstg. Co., Lovely Dame Bldg.</td></tr> <tr><td>—Capital City Brcdstg. Co.</td></tr> <tr><td>—WJW, Inc., 41 S. High St.</td></tr> <tr><td>—Sunbury Brcdstg. Co., 1150 N. Front St.</td></tr> <tr><td>—Have ns & Martin, Inc., 914 W. Broad St.</td></tr> <tr><td>—Head of the Lakes Brcdstg. Co.</td></tr> <tr><td>—Attala Brcdstg. Corp., Box 180</td></tr> <tr><td>—A. E. Newton, 840 N. Main St.</td></tr> <tr><td>—Francis M. Kadow, Box 326</td></tr> <tr><td>—H. Wimpy, 135 E. Jackson St.</td></tr> <tr><td>—Brown Radio Service, 192 S. Goodman St.</td></tr> <tr><td>—Gene T. Dyer, 1258 S. Michigan Ave.</td></tr> <tr><td>—638 Tire and Vulcanizing Co.</td></tr> <tr><td>—WSOC, Inc., 516 W. Trade St.</td></tr> <tr><td>—WTAX, Inc., 416 E. Capitol Ave.</td></tr> <tr><td>—Alejandro Stevenson, Jr., Aptdo. 148</td></tr> <tr><td>—J. Onofre M., Tlaxcala 1013</td></tr> <tr><td>—Ramon Huerta G., Calle 17, Oriente 11</td></tr> </table>	—Dr. J. A. Urquarhart, Dept. of Interior	—Prince Albert Radio Club, Canada Bldg.	—CKCH Brcdstg. Co., Standish Hall Hotel	—R. L. MacAdam	—Lavis y Paz, Independencia No. 34	—E. M. Woody, Casa Grande Hotel	—KDLR, Inc., 1025 Third St.	—Richard F. Lewis, 498 Washington St.	—KFJI Brcdsters, Inc., Willard Hotel	—Howard Shuman, Hotel Lincoln	—Southwestern Hotel Co., Goldman Hotel	—Oscar C. Hirsch, Box 275	—Lee Bros. Brcdstg. Co., California Hotel	—KGY, Inc., 11th and Capitol Way	—Garden City Brcdstg. Co.	—Pasadena Presb. Church, 585 E. Colorado	—Ardmoreite Publishing Co., Inc.	—Midland Life Insurance Bldg.	—Ministerio de Fomento	—WALR Brcdstg. Corp., 1st Trust & Bank Bldg.	—John A. Stenger, Jr., 70 S. Main St.	—Grace Presb. Church, 1627 Monument Ave.	—Monmouth Brcdstg. Corp., 63 Broad St.	—WCOR, Inc., 33 N. High St.	—Clinton R. White, 2756 Pine Grove Ave.	—Harrisburg Brcdstg. Co., 100 E. Poplar	—Emil Denemark, 3850 Ogden Ave.	—Westchester Brcdstg. Corp., Hotel Roger Smith	—H. H. Carman, 64 S. Grove St.	—WGCM, Inc.	—Peter Goelet (Orange County)	—Rock Island Brcdstg. Co., Hotel Harms	—Anderson Brcdstg. Corp., Box 816	—Wm. C. Forrest, R. F. D. No. 3	—Gadsden Brcdstg. Co., 112 N. 8th St.	—Hagerstown Brcdstg. Co., Lovely Dame Bldg.	—Capital City Brcdstg. Co.	—WJW, Inc., 41 S. High St.	—Sunbury Brcdstg. Co., 1150 N. Front St.	—Have ns & Martin, Inc., 914 W. Broad St.	—Head of the Lakes Brcdstg. Co.	—Attala Brcdstg. Corp., Box 180	—A. E. Newton, 840 N. Main St.	—Francis M. Kadow, Box 326	—H. Wimpy, 135 E. 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—Jose R. Lopez, Independencia 28																																																							

1230 kcys. (243.8)

<table border="0" style="width: 100%;"> <tr><td>CMCB</td><td>ak</td><td>150</td><td>....</td><td>Havana, Cuba</td></tr> <tr><td>KGBX</td><td>ak</td><td>500</td><td>....</td><td>Springfield, Mo.</td></tr> <tr><td>KGGM</td><td>ak</td><td>250</td><td>(.5)</td><td>Albuquerque, N.M.</td></tr> <tr><td>KYA</td><td>ak</td><td>1000</td><td>N</td><td>San Francisco, Calif.</td></tr> <tr><td>WFBM</td><td>ae</td><td>1000</td><td>C(5)</td><td>Indianapolis, Ind.</td></tr> <tr><td>WNAC</td><td>ak</td><td>1000</td><td>C(2.5)</td><td>Boston, Mass.</td></tr> <tr><td>XEFJ</td><td>ak</td><td>100</td><td>....</td><td>Monterrey, N. L.</td></tr> <tr><td>YNOP</td><td>z</td><td>100</td><td>....</td><td>Managua, Nic.</td></tr> </table>	CMCB	ak	150	Havana, Cuba	KGBX	ak	500	Springfield, Mo.	KGGM	ak	250	(.5)	Albuquerque, N.M.	KYA	ak	1000	N	San Francisco, Calif.	WFBM	ae	1000	C(5)	Indianapolis, Ind.	WNAC	ak	1000	C(2.5)	Boston, Mass.	XEFJ	ak	100	Monterrey, N. L.	YNOP	z	100	Managua, Nic.	<table border="0" style="width: 100%;"> <tr><td>—Antonio Capablanca, Metropolitan Bldg.</td></tr> <tr><td>—Springfield B'cst Co., St. Louis & Kimbrough</td></tr> <tr><td>—New Mexico Brcdstg. Co., KiMo Bldg.</td></tr> <tr><td>—Pacific Brcdstg. Corp., 988 Market St.</td></tr> <tr><td>—307 N. Pennsylvania St.</td></tr> <tr><td>—Sheppard Brcdstg. Serv., 21 Brookline Ave.</td></tr> <tr><td>—Junco de la Vega, P. O. Box 186</td></tr> <tr><td>—.....</td></tr> </table>	—Antonio Capablanca, Metropolitan Bldg.	—Springfield B'cst Co., St. Louis & Kimbrough	—New Mexico Brcdstg. Co., KiMo Bldg.	—Pacific Brcdstg. Corp., 988 Market St.	—307 N. Pennsylvania St.	—Sheppard Brcdstg. Serv., 21 Brookline Ave.	—Junco de la Vega, P. O. Box 186	—.....
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NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1240 kcys. (241.8)

CJGB	ak	1000	F	Sydney, N. S.	—N. Nathanson, 318 Charlotte St.
CMHB	z	50		Sancti Spiritus, Cuba	—V. E. Weiss y Cia., Independencia 33
KGCU	ak	250	1	Mandan, N. D.	—Mandan Radio Assn., 404 W. Main St.
KLPM	ak	250	1	Minor, N. D.	—John P. Cooley, Box 707
KTAT	ak	1000		Fort Worth, Texas	—Fort Worth National Bank Bldg.
KTFI	ae	1000		Twin Falls, Idaho	—Radio Brdcstg. Corp., Box 521
WKAQ	ae	1000		San Juan, P. R.	—Radio Corp. of Puerto Rico, Box 1414
WXYZ	ak	1000	B	Detroit, Mich.	—Kunsky-Trendle Brdcstg. Corp.
XEAC	z	250		Tijuana, L. C.	—
XEAI	z	100		Mexico City, D. F.	—Carlos Conzaes C., Insurgentes 366
XEKL	z	500		Leon, Guan.	—Cia. Radio del Bajio, 5 de Mayo 26
XELA	z	50		Saltillo, Coah.	—
XEME	z	15		Merida, Yuc.	—

1250 kcys. (239.9)

CMKC	ak	150		Santiago, Cuba	—J. A. Saco, P. O. Box 466
KFOC	ae	1000		Long Beach, Calif.	—Nichols & Warinner, 220 E. Anaheim St.
WCAL	ah	1000	2(2.5)	Northfield, Minn.	—St. Olaf College
WDSU	ak	1000		New Orleans, La.	—WDSU, Inc., Hotel Monteleone
WHBI	ak	1000	a(2.5)	Newark, N. J.	—May Brdcstg. Corp., 100 Shipman St.
WLB	ak	1000	2	Minneapolis, Minn.	—University of Minnesota
WNEW	ae	1000	a(2.5)	Newark, N. J.	—Wodaam Corp., 100 Shipman St.
WTCN	ak	1000	2(5)	Minneapolis, Minn.	—Minn. Brdcstg. Corp., Wesley Temple Bldg.

1260 kcys. (238.0)

CFRN	ak	100	F	Edmonton, Alta.	—G. R. A. Rice, 109 C. P. R. Bldg.
KGVO	ak	1000		Missoula, Mont.	—Mosby's, Inc., 240 N. Higgins
KOIL	ak	1000	B(2.5)	Council Bluffs, Ia.	—Central States Brdcstg. Co.
KPAC	ak	500	D	Port Arthur, Texas	—Port Arthur College
KRGV	ak	500		Weslaco, Texas	—KRGV, Inc.
KUOA	ak	1000	D	Fayetteville, Ark.	—KUOA, Inc., Washington Hotel
KVOA	ak	500		Tucson, Ariz.	—Ariz. Brdcstg. Co., Cons. Natl. Bank Bldg.
WHIO	ae	1000	R	Dayton, Ohio	—Miami Valley Corp., 39 S. Ludlow St.
WNBX	ak	1000		Springfield, Vt.	—WNBX Brdcstg. Corp., 39 Main St.
WTOC	ae	1000	C	Savannah, Ga.	—Savannah Brdcstg. Co., DeSoto Hotel

1270 kcys. (236.1)

CMHD	dk	250		Caibarien, Cuba	—Manuel Alvarez M., Escobar 17
KGCA	ak	100	2D	Decorah, Iowa	—Chas. W. Greenley, 201 Water St.
KOL	ae	1000	C(2.5)	Seattle, Wash.	—Seattle Brdcstg. Co., Northern Life Tower
KWOR	ae	1000	C	Colorado Sp'gs, Colo.	—S. H. Patterson, Antlers Hotel
KWLC	ak	100	2D	Decorah, Iowa	—Luther College
WASH	ak	500	aN	Grand Rapids, Mich.	—Kunsky-Trendle Brdcstg. Corp.
WFBR	ae	500	R	Baltimore, Md.	—Baltimore Radio Show, 7 St. Paul St.
WJDX	ae	1000	N(2.5)	Jackson, Miss.	—Lamar Life Insurance Co.
WOOD	ak	500	aN	Grand Rapids, Mich.	—Kunsky-Trendle Brdcstg. Corp.
XEC	z	200		Ensenada, L. C.	—Juan C. Chavez, Av. Obregon 958
XFB	ak	250		Jalapa, Ver.	—Gobierno del Estado de Veracruz
YNLF	z	20	1275	Managua, Nic.	—

1280 kcys. (234.2)

KFBB	ae	1000	(2.5)	Great Falls, Mont.	—Buttrely Brdcstg. Co., P. O. Box 1817
WCAM	ae	500	1	Camden, N. J.	—City of Camden, City Hall
WCAP	ae	500	1	Asbury Park, N. J.	—Radio Industries, Inc., Convention Hall
WDOD	ak	1000	C(5)	Chattanooga, Tenn.	—WDOD Brdcstg. Corp., Hotel Patten
WIBA	ae	1000	N(5)	Madison, Wis.	—Badger Brdcstg. Co., 111 King St.
WORC	ak	500	C	Worcester, Mass.	—Alf. E. Kleindienst, 60 Franklin St.
WRR	ak	500		Dallas, Texas	—City of Dallas, Southland Bldg.
WTNJ	ak	500	1	Trenton, N. J.	—Trenton Brdcstg. Co., Stacy Trent Hotel
XEMX	z	12		Mexico City, D. F.	—Alfonso T. Avales, Salamanca 87

1290 kcys. (232.4)

KDYL	ak	1000	NX	Salt Lake City, Utah	—Intermountain Brdcstg. Corp.
KLCN	ak	100	D	Blytheville, Ark.	—C. L. Lintzenich, Main & Division Sts.
KTRH	ak	1000	C(5)	Houston, Texas	—KTRH Brdcstg. Co., Rice Hotel
WEBC	ae	1000	N(5)	Superior, Wis.	—Spaulding Hotel, Duluth, Minn.
WJAS	ak	1000	C(2.5)	Pittsburgh, Pa.	—Chamber of Commerce Bldg.
WNBZ	z	100	D	Saranac Lake, N. Y.	—Smith and Mace, 70 Broadway
WNEL	ak	1000	(2.5)	San Juan, P. R.	—Juan Piza, Box 1252

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1300 keys. (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.
WEVD	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.

—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.

1310 keys. (228.9)

CHCK	ak	50	....	Charlottetown, P.E.I.
CJKL	ak	1000	F	Kirkland Lake, Ont.
CJLS	ak	100	....	Yarmouth, N. S.
KCKV	ak	100	F	Quebec, Que.
KCRJ	ak	100	D	Jerome, Ariz.
KFPL	dk	100	(25)	Dublin, Texas
KFXX	ak	100	(25)	Oklahoma City, Okl.
KFYO	dk	100	(25)	Lubbock, Texas
KGCX	ak	100	(25)	Wolf Point, Mont.
KGEZ	aj	100	....	Kalspell, Mont.
KGFV	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.
KPDN	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
WEBR	neh	100	(25)	Royal Oak, 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.
WMFF	ak	250	D	Plattsburg, N. Y.
WNBH	ak	100	(25)	New Bedford, Mass.
WOL	ak	100	....	Washington, D. C.
WRAW	ak	100	....	Reading, Pa.
WROL	ak	100	(25)	Knoxville, Tenn.
WSAJ	ae	100	....	Grove City, Pa.
WSGN	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.
XEAG	z	10	....	Cordoba, Ver.
XECV	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	....	Aguascalientes, Ags.

—Burke & Gesner, 36 Upper Hillsboro St.
 —Northern Brcdstg. Co., Ltd.
 —Laurie L. Smith, Grand Hotel
 —KCKV, 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

1320 keys. (227.1)

CMOX	ak	250	Havana, Cuba
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—10 entre 17 y 19, Vedado

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KGHF	ak	500	Pueblo, Colo.	—C. P. Ritchie, 113 Broadway
KGMB	ak	1000	C	Honolulu, T. H.	—Honolulu Brdcstg. Co., Box 2663
KID	ae	500	(1)	Idaho Falls, Idaho	—KID Brdcstg. Co., Box 487
KRNT	ak	500	C(1)	Des Moines, Iowa	—715 Locust St.
WADC	ae	1000	C(2.5)	Akron, Ohio	—Allen T. Simmons, P. O. Box 29
WORK	ak	1000	N	York, Pa.	—York Brdcstg. Co., 15 S. Beaver St.
WSMB	ak	500	N	New Orleans, La.	—WSMB, Inc., Maison Blanche Bldg.

1330 keys. (225.4)

CMHK	z	250	....	Crucas, Cuba	—Virgilio Villanueva, Calle Heredia 61
KGB	ag	1000	C(2.5)	San Diego, Calif.	—Don Lee System, 1012 First Ave.
KMO	ak	250	....	Tacoma, Wash.	—KMO, Inc., Hotel Winthrop
KSCJ	aj	1000	iC(2.5)	Sioux City, Iowa	—Perkins Bros. Co., 415 Douglas St.
WDRG	ae	1000	C(5)	Hartford, Conn.	—WDRG, Inc., Corning Bldg., 11 Asylum St.
WSAI	ae	1000	R(2.5)	Cincinnati, Ohio	—Crosley Radio Corp., 1329 Arlington St.
WTAQ	ae	1000	I	Green Bay, Wis.	—WHBY, Inc., Bellin Bldg.

1340 keys. (223.7)

CMJL	z	75	....	Camaguey, Cuba	—M. Caymares, Republica 181
HRN	z	50	....	Tegucigalpa, Hond.	—
KGDY	ak	250	D	Huron, S. D.	—Voice of S. Dak., Inc., 347 Dakota St.
KGIR	ak	1000	N(2.5)	Butte, Mont.	—KGIR, Inc., 121 W. Broadway
KGNO	ak	250	....	Dodge City, Kans.	—First National Bank Bldg.
WCOA	ak	500	C	Pensacola, Fla.	—Pensacola Brdcstg. Co., San Carlos Hotel
WFEA	ae	500	C(1)	Manchester, N. H.	—New Hamp. Brdcstg. Co., Carpenter Hotel
WSPD	ae	1000	C(5)	Toledo, Ohio	—Toledo Brdcstg. Co., 505 Jefferson
XFD	z	350	....	Jalapa, Ver.	—Gobierno Estado de Veracruz

1350 keys. (222.1)

CMCA	z	250	....	Havana, Cuba	—Testar y Gonzales, Av. de Italia
KIDO	ak	1000	(.25)	Boise, Idaho	—Boise Brdcstg. Station, Hotel Boise
KWK	ak	1000	B(5)	St. Louis, Mo.	—Thomas Patrick, Inc., Hotel Chase
WAWZ	ae	500	1(1)	Zarephath, N. J.	—Pillar of Fire
WBNX	ae	250	I	New York, N. Y.	—Standard Cahill Co., 260 E. 161st St.

1360 keys. (220.4)

CMJH	dk	50	....	Ciego de Avila, Cuba	—Luis Marauri H., Castilla 37
KCRC	ak	250	....	Enid, Okla.	—Enid Radiophone Co., Oxford Hotel
KGRC	ak	1000	....	Long Beach, Calif.	—Consolidated Brdcstg. Co., 435 Pine St.
WCSC	ak	500	(i)N	Charleston, S. C.	—S. C. Brdcstg. Corp., Francis Marion Hotel
WFBL	ak	1000	C(5)	Syracuse, N. Y.	—Onondaga Brdcstg. Co., Onondaga Hotel
WGES	ae	500	I	Chicago, Ill.	—Oak Leaves Brdcstg. Co., 4000 Washington
WQBC	ak	1000	D	Vicksburg, Miss.	—Delta Brdcstg. Corp., Hotel Vicksburg
WSBT	ak	500	I	South Bend, Ind.	—South Bend Tribune, 225 W. Colfax Ave.

1370 keys. (218.8)

CKCW	ak	100	F	Moncton, N. B.	—Moncton Brdcstg. Co., K. of P. Hall
CMGE	ak	150	....	Cardenas, Cuba	—Genaro Sebater, Av. Cespedes 180
HIZ	z	10	....	Trujillo, D. R.	—Abbes y Garcia, Calle Duarte 68
KAST	ak	100	D	Astoria, Ore.	—Abraham Shapiro, 611 Commercial St.
KELD	z	100	....	El Dorado, Ark.	—T. H. Barton
KERN	ak	100	....	Bakersfield, Calif.	—Station KERN, Elk's Club
KFGO	ak	100	....	Boone, Iowa	—Boone Biblical College, 924 W. 2nd St.
KFJM	ak	100	(.25)	Grand Forks, N. D.	—University of North Dakota
KFJZ	ae	100	....	Fort Worth, Texas	—Ft. Worth Brdcstg., 502 Trinity Life
KFRG	ak	100	D	Longview, Texas	—Voice of Longview, Box 86
KGAR	ae	100	(.25)	Tucson, Ariz.	—Tucson Motor Service, 142 S. 6th Ave.
KGFG	bk	100	....	Oklahoma City, Okla.	—Oklahoma Brdcstg. Co., 1113 N. Broadway
KGFL	ak	100	4	Roswell, N. M.	—KGFL, Inc., 507 N. Main St.
KGKL	ak	100	(.25)	San Angelo, Texas	—KGKL, Inc., St. Angelus Hotel
KICA	ak	100	4	Clovis, N. M.	—Southwest Brdcstg. Co.
KIUP	ak	100	....	Durango, Colo.	—C. Guy Shepard, 2800 Main St.
KLUF	z	100	(.25)	Galveston, Texas	—Geo. R. Clough, Buccaneer Hotel
KMAC	ak	100	5	San Antonio, Tex.	—W. W. McAllister, Smith-Young Tower
KONO	ak	100	5	San Antonio, Tex.	—Mission Brdcstg. Co., Milam Bldg.
KRE	ak	100	(.25)	Berkeley, Calif.	—First Cong. Church, 2337 Shattuck Ave.
KRKO	ak	50	I	Everett, Wash.	—Lee Mudgett, 2814 Rucker Ave.
KSLM	ak	100	....	Salem, Ore.	—Oregon Radio, Inc.
KUJ	ak	100	....	Walla Walla, Wash.	—KUJ, Inc., Marcus Whitman Hotel
KVL	ak	100	I	Seattle, Wash.	—KVL, Inc., 2101 Smith Tower
KWKC	ak	100	....	Kansas City, Mo.	—W. Duncan Brdcstg. Co., 3915 Main St.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KWYO	ak	100	....	Sheridan, Wyo.	—Big Horn Brdcstg. Co.
WABY	aj	100	....	Albany, N. Y.	—Adirondack Brdcstg. Co., Hotel Ten Eyck
WAGF	ak	250	D	Dothan, Ala.	—Dothan Brdcstg. Co., Box 25
WATL	ak	100	....	Atlanta, Ga.	—Atlanta Brdcstg. Co., Volunteer Life Bldg.
WBNY	z	100	2P(25)	Buffalo, N. Y.	—Roy L. Albertson
WBTM	ak	100	(25)	Danville, Va.	—Piedmont Brdcstg. Co., Miller Bldg.
WCBM	ae	100	(25)	Baltimore, Md.	—Balto. Brdcstg. Co., Keith Theater Bldg.
WDAS	ae	100	(25)	Philadelphia, Pa.	—WDAS Brdcstg. Co., 1211 Chestnut St.
WEOA	z	100	P	Evansville, Ind.	—Evansville on the Air, Inc.
WGL	ae	100	C	Fort Wayne, Ind.	—F. C. Zieg, 213 W. Main St.
WHBQ	ak	100	....	Memphis, Tenn.	—WHBO, Inc., Hotel Claridge
WHDF	ak	100	(25)	Calumet, Mich.	—Upper Mich. Brdcstg. Co., Box 643
WHLB	z	100	P	Virginia, Minn.	—Head of the Lakes Brdcstg. Co.
WIBM	ak	100	(25)	Jackson, Mich.	—WIBM, Inc., 306 W. Michigan Ave.
WLLH	ak	100	(25)	Lowell, Mass.	—Merrimac Brdcstg. Co., Box D
WMBR	ak	100	C(25)	Jacksonville, Fla.	—Florida Brdcstg. Co.
WMFD	ak	100	D	Wilmington, N. C.	—Richard A. Dunlea, Hotel Wilmington
WMFO	ak	100	D	Decatur, Ala.	—James R. Doss, Jr.
WOC	ak	100	C(25)	Davenport, Iowa	—Tri-City Broadcasting Co.
WPAY	ak	100	....	Portsmouth, Ohio	—Veebee Corp.
WPFB	ak	100	....	Hattiesburg, Miss.	—Forest Brdcstg. Co., 512 Main St.
WQDM	ae	100	....	St. Albans, Vt.	—Regan & Bostwick, 42 N. Main St.
WRAK	ak	100	(25)	Williamsport, Pa.	—WRAK, Inc., 244 W. 4th St.
WRDO	ae	100	....	Augusta, Maine	—WRDO, Inc., Augusta House
WRJN	ak	100	....	Racine, Wis.	—Racine Brdcstg. Corp., Hotel Racine
WSVS	ak	50	D2	Buffalo, N. Y.	—Seneca High School, 666 E. Delevan Ave.
XEFZ	ak	100	....	Mexico City, D. F.	—Manuel Zetina, Calle de la Rosa 92
XEI	ak	125	....	Morelia, Mich.	—Carlos Gutierrez M., F. I. Madero 545
XEZZ	z	100	....	San Luis Potosi, SLP.	—Zeferino Jimenez, Zaragoza 32
.....	z	250	DP	New Albany, Ind.	—Northern Brdcstg. Corp.
.....	z	100	P	St. Paul, Minn.	—Edward Hoffman

1380 keys. (217.3)

CMCR	z	150	....	Havana, Cuba.	—Aurelio Hernandez, Infanta 115
KOH	ak	500	C	Reno, Nev.	—The Bee, Inc., 440 N. Virginia St.
KQV	ae	500	....	Pittsburgh, Pa.	—KQV Brdcstg. Co., 1406 C. of C. Bldg.
WALA	af	500	C(1)	Mobile, Ala.	—Pape Brdcstg. Co., P. O. Box 288
WKBH	ae	1000	....	LaCrosse, Wis.	—WKBH, Inc., 409 Main St.
WNBC	mk	250	D	New Britain, Conn.	—Wm. J. Sanders, 147 Main St.
WSMK	ak	200	C	Dayton, Ohio	—WSMK, Inc., 121 N. Main St.

1390 keys. (215.7)

CMJC	z	150	....	Camaguey, Cuba	—Felix Sanchez, Calle Cisneros y Gnrl. Gomez
HIH	ak	15	1395	San Ped. de Macoris	—Domingo Dominguez
KLRA	ae	1000	C(2.5)	Little Rock, Ark.	—Arkansas Brdcstg. Co., Box 550
KOOS	ae	250	D	Marshfield, Ore.	—Pacific Radio Corp., Hall Bldg.
KOY	ae	500	(1)	Phoenix, Ariz.	—Nielsen Co., P. O. Box 1323
WHK	ae	1000	C(2.5)	Cleveland, Ohio	—Radio Air Corp., 1311 Terminal Tower

1400 keys. (214.2)

CMGC	z	100	....	Matanzas, Cuba	—Oscar Mechoso, Independencia 56
CMKR	z	100	....	Santiago, Cuba	—Jaime Nadal, Calle "B," Maso alta 71
KLO	ak	500	N	Ogden, Utah	—Interstate Brdcstg. Corp., 405 - 25th St.
KTUL	ak	500	C(1)	Tulsa, Okla.	—Tulsa Brdcstg. Co., National Bank Bldg.
TGX	ak	250	....	Guatemala City, Gt.	—Ministerio de Fomento
WARD	ak	500	2	Brooklyn, N. Y.	—U. S. Brdcstg. Corp., 427 Fulton St.
WBBC	ae	500	2(1)	Brooklyn, N. Y.	—Brooklyn Brdcstg. Corp., 552-54 Atlantic
WEGL	z	500	P	Brooklyn, N. Y.	—Brooklyn Daily Eagle
WIRE	ak	500	R(1)	Indianapolis, Ind.	—540 N. Meridian St.
WLTH	ak	500	2	Brooklyn, N. Y.	—Voice of Brooklyn, 105 - 2nd Ave., N. Y. C.
WVFW	ak	500	2	Brooklyn, N. Y.	—Paramount Brdcstg. Co., 4 & 5 Court Sq.

1410 keys. (212.6)

CHNC	ak	500	F(1)	New Carlisle, Que.	—Gaspesian Radio Brdcstg. Co.
CKFK	ak	50	5	Vancouver, B. C.	—United Church of Canada, Hemlock & 12th
CKMO	ag	100	5F	Vancouver, B. C.	—Sprott-Shaw Co., 1604 Bekins Bldg.
KGNC	ae	1000	(2.5)	Amarillo, Texas	—Plains Radio Brdcstg. Co.
WAAB	ak	500	C	Boston, Mass.	—Bay State Brdcstg. Co., 21 Brookline Ave.
WBCM	ae	500	....	Bay City, Mich.	—James E. Davidson, Hotel Wenonah
WHIS	ak	250	(.5)	Bluefield, W. Va.	—Daily Telegraph, Bland St.
WROK	ak	500	....	Rockford, Ill.	—Rockford Brdcsters, Inc., 109 S. Water
WSFA	ak	500	C(1)	Montgomery, Ala.	—Mont. Brdcstg. Co., Jefferson Davis Hotel

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1420 kcys. (211.1)

CKGB	ak	100	F	Timmins, Ont.	—R. H. Thompson, Press Bldg.
CMCO	z	250		Havana, Cuba	—Calle Vista Alegre 90, Vibora
KABC	ak	100	(.25)	San Antonio, Texas	—Alamo Brcdstg. Co., Texas Theater Bldg.
KABR	ak	100		Aberdeen, S. Dak.	—Aberdeen Brcdstg. Co.
KALB	z	100	D	Alexandria, La.	—Alexandria Brcdstg. Co.
KBPS	aj	100	4	Portland, Ore.	—Benson School, 546 N. E. 12th Ave.
CKMC	aj	100		Texarkana, Ark.	—No. Mississippi Brcdstg. Co., Box 865
KEUB	z	100	P	Truce, Utah.	—Eastern Utah Brcdstg. Co.
KRIF	ak	100		Fond du Lac, Wis.	—Reporter Prtg. Co., 18 W. First St.
KGFF	ak	100	(.25)	Shawnee, Okla.	—KGFF, Inc., 9th and Bell Sts.
KGGC	ak	100		San Francisco, Cal.	—Golden Gate Brcdstg. Co., 230 Eddy St.
KGW	ak	100		Alamosa, Colo.	—Leonard E. Wilson, 326 N. Commercial
KHBC	z	100	XZ	Hilo, T. H.	—Honolulu Brcdstg. Co.
KIDW	ak	100	1	Lamar, Colo.	—Lamar Brcdstg. Co., Box 688
KIUN	ak	100		Pecos, Texas	—J. H. Hawkins and B. H. Tubbs
KNET	z	100	D	Palestine, Texas	—Palestine Brcdstg. Association
KORE	ae	100		Eugene, Ore.	—Eugene Brcdstg. Sta., 733 Willamette St.
KRLC	ak	100		Lewiston, Idaho	—H. E. Studebaker, Lewis-Clarke Hotel
KRLH	z	100	D	Midland, Tex.	—Clarence Scharbaur
KUMA	ak	100		Yuma, Ariz.	—Dr. A. H. Schermann, Box 267
KWBG	ak	100		Hutchinson, Kans.	—W. N. Greenwald
KXJ	ak	100	4(.25)	Portland, Ore.	—KXJ Brcdsters., Multnomah Hotel
WACO	ak	100	C	Waco, Texas	—Cent. Texas Brcdstg. Co., Amicable Bldg.
WAGM	ae	100		Fresque Isle, Maine	—Aroostook Brcdstg. Corp., Main St.
WAZL	ak	100	2	Hazleton, Pa.	—Hazleton Brcdstg. Service, Inc.
WCBS	ak	100		Springfield, Ill.	—WCBS, Inc., 208 1/2 S. 5th St.
WCFTV	ak	100	3(.25)	Charlottesville, Va.	—Community Brcdstg. Corp., Box 221
WEED	ak	100	3	Rocky Mount, N. C.	—Wm. Avera Wynne, Box 221
WEHS	ak	100	a	Cicero, Ill.	—WEHS, Inc., 6138 Cermak Road
WELL	ak	100		Battle Creek, Mich.	—Enquirer News, 38 W. State St.
WGPC	ak	100	D	Albany, Ga.	—Americus Brcdstg. Corp., Rylander Theater
WHDL	ak	100	a	Olean, N. Y.	—Tupper Lake Brcdstg. Co., Exchange Bank
WHFC	ae	100	D	Cicero, Ill.	—WHFC, Inc., 6138 Cermak Road
WILM	aj	100	2	Wilmington, Del.	—Delaware Brcdstg. Corp., 920 King St.
WJBO	ak	100		Baton Rouge, La.	—Baton Rouge Brcdstg. Co., 334 Florida St.
WJBR	z	100	P	Gastonia, N. C.	—J. B. Roberts
WJMS	ak	100		Ironwood, Mich.	—WJMS, Inc., St. James Hotel
WKBI	ak	100	a	Cicero, Ill.	—WKBI, Inc., 6138 Cermak Road
WLAP	ak	100	(.25)	Lexington, Ky.	—American Brcdstg. Corp., Main & Esplanade
WLBK	ak	100		Kansas City, Kan.	—WLBK Co., 901 N. 8th St.
WLEU	ak	100	(.25)	Erie, Pa.	—Leo J. Omelian, Commerce Bldg.
WMAS	ak	100	C(.25)	Springfield, Mass.	—WMAS, Inc., 70 Chestnut St.
WMBC	ae	100	(.25)	Detroit, Mich.	—Mich. Brcdstg. Co., 7310 Woodward Ave.
WMBH	ak	100	(.25)	Joplin, Mo.	—Joplin Brcdstg. Co., 1334 Roosevelt St.
WMFJ	ak	100		Daytona Beach, Fla.	—W. W. Esch, 126 1/2 Magnolia Ave.
WMSD	ak	100		Sheffield, Ala.	—Muscle Shoals Brcdstg. Corp., Box 486
WPAD	ak	100	(.25)	Paducah, Ky.	—Paducah Brcdstg. Co., 2201 Broadway
WPAR	ak	100	P	Parkersburg, W. Va.	—Chancellor Hotel
WPRP	z	100	P(.25)	Ponce, P. R.	—Julio M. Conesa
XEAZ	z	7		Guanajuato, Gto.	—Antonio Zavala, Paseo de la Presa 85
XEFB	ak	100		Monterrey, N. L.	—Jesus Quintanilla, Box 317

1430 kcys. (209.7)

CMJP	ak	75		Camaguey, Cuba	—Cesar Canall, Gallejas No. 28
KECA	ah	1000	(5) B	Los Angeles, Calif.	—E. C. Anthony, Inc., 1000 S. Hope St.
KGNF	ak	1000	D	North Platte, Neb.	—Great Plains Brcdstg. Co., W. 12th St.
KSO	ak	500	B (1)	Des Moines, Iowa	—Iowa Brcdstg. Co., 715 Locust St.
WBNS	ae	500	C (1)	Columbus, Ohio	—WBNS, Inc., 33 N. High St.
WHEC	ae	500	C (1)	Rochester, N. Y.	—WHEC, Inc., 40 Franklin St.
WHP	ak	500	C (1)	Harrisburg, Pa.	—WHP, Inc., 216 Locust St.
WNBR	ae	500	(1)	Memphis, Tenn.	—Memphis Brcdstg. Co., Hotel DeVoy
WOKO	aj	500	C (1)	Albany, N. Y.	—WOKO, Inc., Hotel Ten Eyck

1440 kcys. (208.2)

CMOA	z	150		Havana, Cuba	—Juan Fernandez Duran, Aguilar 126, altos
HP50	z	25		Colon, Panama	.....
KDFN	ak	500		Casper, Wyo.	—Donald L. Hathaway, Box 930
KLS	ag	250	D	Oakland, Calif.	—Warner Bros., 2201 Telegraph Ave.
KXYZ	z	1000		Houston, Texas	—Harris County Brcdstg. Co., Gulf Bldg.
TIFS	z	7.5	(1441)	Cartago, C. R.	.....
WBIG	ae	500	C (1)	Greensboro, N. C.	—N. C. Brcdstg. Co., The O. Henry Hotel
WCBA	aj	500	a	Allentown, Pa.	—B. B. Musselman, 39-41 Tenth St.
WMBD	ak	500	C (1)	Peoria, Ill.	—Peoria Brcdstg. Co., 11 N. Madison

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WSAN	aj	500	a	Allentown, Pa.	—WSAN, Inc., 39 Tenth St.
XEFI	ae	250	....	Chihuahua, Chih.	—Feliciano Lopez Isles, Aptdo. 157

1450 kcys. (206.8)

CFCT	ae	75	....	Victoria, B. C.	—Victoria Brdcstg. Assn., 620 View St.
CHGS	ae	50	F	Summerside, P.E.I.	—R. T. Holman, Ltd., 190 Water St.
KIEM	ak	500	....	Eureka, Calif.	—Redwood Brdcstg. Co., Vance Hotel
KTBS	ak	1000	N	Shreveport, La.	—Tri-State Brdcstg. System, Box 17
WGAR	ak	500	B (1)	Cleveland, Ohio	—WGAR Brdcstg. Co., Hotel Statler
WHOM	ae	250	....	Jersey City, N. J.	—N. J. Brdcstg. Corp., 2870 Hudson Blvd.
WSAR	ae	1000	....	Fall River, Mass.	—Academy of Music Bldg.
WTFI	ak	500	....	Athens, Ga.	—Liberty Brdcstg. Co., 133 E. Washington

1460 kcys. (205.4)

CMCU	z	150	....	Havana, Cuba.	—San Francisco 13, Vibora.
CMKF	z	50	....	Holguin, Cuba	—M. J. de Gongora, Libertad esq. Arias
KSTP	ak	25000	N	St. Paul, Minn.	—Natl. Battery Brdcstg. Co., St. Paul Hotel
WJSV	ak	10000	C	Washington, D. C.	—Old Dominion Brdcstg. Co., Earle Bldg.

1470 kcys. (204.0)

CMOK	z	150	....	Havana, Cuba	—Rafael Valdez, Estrella 121
KGA	ak	5000	B	Spokane, Wash.	—Louis Wasmer, 1023 W. Riverside Ave.
WLAC	ak	5000	C	Nashville, Tenn.	—WLAC, Inc., 2421 West End Ave.

1480 kcys. (202.6)

KOMA	ak	5000	C	Oklahoma City, Okla	—Natl. Radio Mfg. Co., Biltmore Hotel
WKBW	ck	5000	C	Buffalo, N. Y.	—Buffalo Brdcstg. Corp., Rand Bldg.

1490 kcys. (201.2)

KFBK	ak	5000	C	Sacramento, Calif.	—Sacramento Bee, 7th and I Sts.
WCKY	ae	5000	B	Covington, Ky.	—L. B. Wilson, Inc., 6th and Madison

1500 kcys. (199.9)

CJIC	ak	100	....	Sault Ste. Marie, Ont.	—Hyland & Whitby, 678 Queen St., E.
CMCX	z	150	....	Havana, Cuba	—Calle Maceo 7, Guanabacoa, Habana
KBIX	z	100	P	Muskogee, Okla.	—Muskogee Press
KDB	ak	100	C	Santa Barbara, Cal	—Sta. Barbara Brdcsters., Ltd., 15-17 E. Haley
KGFI	ak	100	(25)	Corpus Christi, Tex	—Eagle Brdcstg. Co., Box 1508
KGFK	ak	100	Y	Moorhead, Minn.	—Red River Brdcstg. Co., Comstock Hotel
KGKB	ak	100	....	Tyler, Texas	—East Texas Brdcstg. Co., 115 S. College
KGKY	ak	100	(25)	Scottsbluff, Neb.	—Hilliard Co., 1517 1/2 Broadway
KNEL	z	100	D	Brady, Texas	—C. L. Burns
KNOW	ak	100	....	Austin, Texas	—KUT Brdcstg. Co., Norwood Bldg.
KOTN	ak	100	D	Pine Bluff, Ark.	—Universal Brdcstg. Corp., Hotel Pines
KPLC	ak	100	....	Lake Charles, La.	—Calcasieu Brdcstg. Co., Majestic Hotel
KPO	ak	100	(25)	Wenatchee, Wash.	—Westcoast Brdcstg. Co. KPO Bldg. 20—2nd St.
KRNR	z	100	D	Roseburg, Ore.	—Oregon Publishing Co.
KTEP	z	100	P	El Paso, Texas	—Dorrence D. Roderick
KVOE	ak	100	....	Santa Ana, Calif.	—The Voice of the Orange Empire, Ltd.
KXO	ae	100	....	El Centro, Calif.	—F. M. Bowles, Box 140
WCNW	ak	100	1 (25)	Brooklyn, N. Y.	—Arthur Paske, 864-868 Flatbush Ave.
WDNC	ae	100	C	Durham, N. C.	—Durham Radio Corp., Wash-ton Duke Hotel
WGAL	ae	100	(25)	Lancaster, Pa.	—WGAL, Inc., 8 W. King St.
WHBB	z	100	D	Selma, Ala.	—YMCA Building
WHEF	ak	100	(25)	Kosciusko, Miss.	—Attala Brdcstg. Corp., Box 631
WJBK	ae	100	(25)	Detroit, Mich.	—Jas. F. Hopkins, Inc., 6559 Hamilton Ave.
WKBB	ak	100	(25)	E. Dubuque, Ill.	—Sanders Bros., Hotel Julian
WKBV	ak	100	....	Richmond, Ind.	—Knox Radio Corp., Box 308
WKBZ	ak	100	(25)	Muskegon, Mich.	—Karl L. Ashbacher, Occidental Hotel
WKEU	ak	100	D	Griffin, Ga.	—Station WKEU, 906 Hill St.
WMBQ	ae	100	1	Brooklyn, N. Y.	—Metropolitan Brdcstg. Corp., 95 Leonard
WMEX	ak	100	(25)	Boston, Mass.	—The Northern Corp., Hotel Manager
WNBF	ae	100	C	Binghamton, N. Y.	—Howitt-Wood Co., Arlington Hotel
WOPI	ae	100	....	Bristol, Tenn.	—Radiophone Station WOPI, 22nd and State
WRDW	ak	100	....	Augusta, Ga.	—Augusta Brdcstg. Corp., 309 Eighth St.
WRGA	ak	100	(25)	Rome, Ga.	—Rome Brdcstg. Corp., 10 Third Ave.
WSYB	ak	100	....	Rutland, Vt.	—Philip Weiss Music Co., Box 328
WTMV	ak	100	....	East St. Louis, Ill.	—Mississippi Valley Brdcstg. Co.
WWRL	ak	100	1 (25)	Woodside, N. Y.	—Long Island Brdcstg. Corp., 41-30—58th St.
WWSW	ae	100	(25)	Pittsburgh, Pa.	—Walker & Downing Corp., Hotel Keystone

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1510 keys. (198.6)

CFRC ak 100 Kingston, Ont. —Queen's University, Fleming Hall
 CKCR ak 100 Waterlour, Ont. —Mitchell & Liddle, 24 King St., So.

1530 keys. (196.0)

WLXBS z 1000 Waterbury, Conn. —American Republican, Inc., 136 Grand St.
 W9XBY ak 1000 Kansas City, Mo. —106 W. 14th St.

1550 keys. (193.4)

W2XR z 1000 Long Isl. City, N.Y. —Scientific Brdcstg. Serv., 41 Park Row, N. Y.
 W6XAI ak 1000 Bakersfield, Calif. —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.

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|--|--|--|
| <p>Second Column Symbols</p> <p>a Verifies reception for return postage.
 b Verifies only occasionally.
 c Does not verify.
 d Verification 10c: letter 25c.
 e Sends Ekko stamp for 10c.
 f Sends Ekko stamp for 5c.
 g Sends Ekko stamp for postage.
 h Sends own station stamp for 10c.
 i Sends own station stamp for 5c.
 j Sends own station stamp for postage.</p> | <p>k Has no stamps.
 m Verifies for 5c.
 n Weather or time only.
 z No information available.</p> <p>Fourth Column Symbols</p> <p>B National "Blue" network.
 C Columbia network.
 D Day time only.
 Dn Day time with occasional evening hours.
 F Canadian Radio Brdestg. Commission.
 N National "Red" and "Blue" networks.</p> | <p>P Has construction permit only.
 R National "Red" network.
 S Sunday only.
 Sy Synchronized.
 X Has permit to increase power.
 Y Has permit to change location.
 Z Has permit to change frequency.</p> <p>a-b-c. Small letters show stations using same transmitter.
 1-2-3. Figures denote stations sharing time.
 No information.</p> |
|--|--|--|

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	Los Angeles	Lexington
WAPI 1140 5000 N	KCRJ 1310 100	KECA 1430 1000 B	KLRA 1200 100
WBRC 930 1000 C	Lowell	KFAC 1300 1000	KLRA 1390 1000 C
WSGN 1310 100	KSUN 1200 100	KFI 640 50000 R	Pine Bluff
Decatur	Phoenix	KFSD 1120 500	KOTN 1500 100
WMFO 1370 100	KOY 1390 500	KFVD 1000 250	Texarkana
Dothan	KTAR 620 1000 N	KGfJ 1200 100	KCMC 1420 100
WAGF 1370 250	Tucson	KHJ 900 1000 C	
Gadsden	KGAR 1370 100	KRKR 1120 500	
WJBY 1210 100	KVOA 1260 500	KTM 780 500	
Mobile	Yuma	Modesto	
WALA 1380 500 C	KUMA 1420 100	KTRB 740 250	
Montgomery		Oakland	
WSFA 1410 500 C	ARKANSAS	KLS 1440 250	
Selma	Blytheville	KLX 880 1000	
WHBB 1500 100	KLCN 1290 100	KROW 930 1000	
Sheffield	El Dorado	Pasadena	
WMSD 1420 100	KELD 1370 100	KPPC 1210 50	
ALASKA	Fayetteville	Redding	
Anchorage	KUOA 1260 1000	..... 1200 100	
KFQD 780 250	Fort Smith	Sacramento	
Juneau	KFPW 1210 100	KFBK 1490 5000 C	
KINY 1310 100	Hot Springs	San Bernardino	
Ketchikan	KTHS 1060 10000 N	KFXM 1210 100	
KGBU 900 500	Jonesboro	San Diego	
	KBTM 1200 100	KFSD 600 1000 B	
	Little Rock		
	KARK 890 250		
	Hollyhock		
	KFWB 950 1000		

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

KGB	1330	1000 C
San Francisco		
KFRC	610	100 C
KGOC	1420	100
KGBC	790	7500 B
KJBS	1070	500
KPO	680	50000 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	50000 N
KPOF	880	500
KVOD	920	500
Durango		
KIUP	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	50000 R
WTHH	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		
WMPJ	1420	100
Gainesville		
WRUF	830	5000
Jacksonville		
WJAX	900	1000 N
WMBR	1370	100 C
Lakeland		
WLAK	1310	100
Miami		
WQAD	1300	1000 N
WMOA	560	1000 C
Orlando		
WDBO	580	1000 C
Pensacola		
WCOA	1340	500 C
St. Petersburg		
WSUN	620	1000 N
Tallahassee		
WTAL	1310	100
Tampa		
WDAE	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	50000 N
Augusta		
WRDW	1500	100
Columbus		
WRBL	1200	100
Griffin		
WKUE	1500	100
Macon		
WMAZ	1180	1000
Rome		
WRGA	1500	100
Savannah		
WTOC	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	50000 C
WCFL	970	5000 B
WCRW	1210	100
WEDC	1210	100
WENR	870	50000 N
WGES	1360	500
WGN	720	50000
WJJD	1130	20000
WLS	870	50000 N
WMAQ	670	50000 N
WMBI	1080	5000
WWSB	1210	100
Cicero		
WEHS	1420	100
WHFC	1420	100
WKBI	1420	100
Decatur		
WJBL	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		
WCBD	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
WSBT	1360	500 C
Terre Haute		
WBOW	1310	100

West Lafayette		
WBAA	890	1000
IOWA		
Ames		
WOI	640	5000
Boone		
KFGQ	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	50000 R
Iowa City		
WSUI	880	500
Marshalltown		
KFJB	1200	100
Shenandoah		
KFNQ	890	500
KMA	930	1000
Sioux City		
KSCJ	1330	1000 C

KANSAS

Abilene		
KFBI	1050	5000
Coffeyville		
KGGF	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	1300	1000 C

KENTUCKY

Ashland		
WCMI	1310	100
Covington		
WCKY	1490	5000 B
Lexington		
WLAP	1420	100
Louisville		
WAVE	940	1000 N
WHAS	820	50000 C
Paducah		
WPAD	1420	100

LOUISIANA

Alexandria		
KALB	1420	100
Baton Rouge		
WJBO	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	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 WMPG 1200 100 Marquette WBEO 1310 100 Muskegon WKBZ 1500 100 Royal Oak WEXL 1310 50	Kansas City KMBC 950 1000 C KWKC 1370 100 WDAF 610 1000 R WHB 860 1000 W9XBY 1530 1000 St. Joseph KFEO 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	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
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 WFBZ 1270 500 R Cumberland WTBO 800 250 Frederick WFMD 900 500 Hagerstown WJEZ 1210 100			
MASSACHUSETTS			
Boston WAAB 1410 500 C WBZ 990 50000 B WCOP 1120 500 WEI 590 1000 R WHDH 830 1000 WMEX 1500 100 WNAZ 1230 1000 C Fall River WSAR 1450 1000 Lowell WLLH 1370 100 Needham WORL 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			
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 KGFV 1500 100 Northfield WCAL 1250 1000 Rochester KROC 1310 100 St. Paul KSTP 1460 25000 N 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 Wicksburg WQBC 1360 1000			
MICHIGAN			
Battle Creek WELL 1420 100 Bay City WBCM 1410 500 Calumet WHDF 1370 100 Detroit WJBK 1500 100 WJR 750 50000 C			
MISSOURI			
Cape Girardeau KFVS 1210 100 Columbia KFRU 630 500 Jefferson City WOS 630 500 Joplin WMBH 1420 100			
MONTANA			
Billings KGHL 780 1000 N Butte KGIR 1340 1000 N Great Falls KFBB 1280 1000 Kalispell KGEZ 1310 100 Missoula KGVO 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 WOW 590 5000 R Scottsbluff KGYK 1500 100 York KGBZ 930 1000			
NEVADA			
Reno KOH 1380 500 C			
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			
NEW MEXICO			
Albuquerque KGGM 1230 250 KOB 1180 10000 Clovis KICA 1370 100 Roswell KGFL 1370 100 Santa Fe KIUJ 1310 100			
NEW YORK			
Albany WABY 1370 100 WOKO 1430 500 C Auburn WMBO 1310 100 Binghamton WNBF 1500 100 Brooklyn WARD 1400 500 WBBC 1400 500 WBRR 1300 1000 WCNW 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 WSVS 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 WBNX 1350 250 WBOQ 860 50000 WEAF 660 50000 R WEVD 1300 1000 WEAB 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

NORTH CAROLINA

Asheville	570	1000 N
Charlotte		
WBT	1080	50000 C
WSOC	1210	100 N
Durham		
WDNC	1500	100 C
Gastonia		
WJBR	1420	100
Greensboro		
WBG	1440	500 C
High Point		
WFR	1200	100
Raleigh		
WPTF	680	5000 N
Rocky Mount		
WEED	1420	100
Wilmington		
WMFD	1370	100
Winston-Salem		
WSJS	1310	100 C

NORTH DAKOTA

Bismarck	550	1000 N
Devils Lake		
KDLR	1210	100
Fargo		
WDAY	940	1000 N
Grand Forks		
KFJM	1370	100
Mandan		
KGCU	1240	250
Minot		
KLPM	1240	250

OHIO

Akron		
WADC	1320	1000 C
WJW	1210	100
Canton		
WHBC	1200	100
Cincinnati		
WCPO	1200	100
WKRC	550	1000 C
WLW	700	500000 N
WSAI	1330	1000 R
Cleveland		
WGAR	1450	500 B
WHK	1390	1000 C
WJAY	610	500
WTAM	1070	50000 R
Columbus		
WAIU	640	500

WBNS	1430	500 C
WGOL	1210	100
WOSU	570	750
Dayton		
WHIO	1260	1000 R
WSMK	1380	200 C
Portsmouth		
WPAY	1370	100
Toledo		
WSPD	1340	1000 C
Youngstown		
WKBN	570	500 C
Zanesville		
WALR	1210	100

OKLAHOMA

Ada		
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		
KFKR	1310	100
KGFG	1370	100
KOMA	1480	5000 C
WKY	900	1000 N
Ponca City		
WBBZ	1200	100
Shawnee		
KGFF	1420	100
Tulsa		
KTUL	1400	500 C
KVOO	1140	25000 N

OREGON

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		
KRRR	1500	100
Salem		
KSLM	1370	100

PENNSYLVANIA

Allentown		
WCBA	1440	500
WSAN	1440	500
Altoona		
WFBG	1310	100
Easton		
WEST	1200	100

Erie		
WLEU	1420	100
Glenide		
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		
KYW	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		
WEEU	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		
WRAK	1370	100
York		
WORK	1320	1000

PUERTO RICO

Ponce		
WPRP	1420	100
San Juan		
WKAQ	1240	1000
WNEL	1290	1000

RHODE ISLAND

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

SOUTH DAKOTA

Aberdeen		
KABR	1420	100
Brookings		
KFDY	780	1000
Huron		
KGDY	1340	250
Pierre		
KCFX	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

TENNESSEE

Bristol		
WOPI	1500	100
Chattanooga		
WDDO	1280	1000 C
Jackson		
WTJS	1310	100
Knoxville		
WNOX	1010	1000 C
WROL	1310	100
Memphis		
WHBQ	1370	100
WMC	780	1000 N
WNRB	1430	500
WREC	600	1000 C
Nashville		
WLAC	1470	5000 C
WSM	650	50000 N
Springfield		
WSIX	1210	100

TEXAS

Amarillo		
KGNC	1410	1000
Austin		
KNOW	1500	100
Beaumont		
KFDM	560	500
Brady		
KNEL	1500	100
College Station		
WTAW	1120	500
Corpus Christi		
KGFI	1500	100
Dallas		
KRLD	1040	10000 C
WFAA	800	50000 N
WRR	1280	500
Dublin		
KFPL	1310	100
El Paso		
KTEP	1420	100
KTSM	1310	100
WDAH	1310	100
Fort Worth		
KFJZ	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

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Lubbock</td><td></td><td></td></tr> <tr><td>KFYO 1310</td><td>100</td><td></td></tr> <tr><td>Midland</td><td></td><td></td></tr> <tr><td>KRLH 1420</td><td>100</td><td></td></tr> <tr><td>Palestine</td><td></td><td></td></tr> <tr><td>KNET 1420</td><td>100</td><td></td></tr> <tr><td>Pampa</td><td></td><td></td></tr> <tr><td>KPDN 1310</td><td>100</td><td></td></tr> <tr><td>Pecos</td><td></td><td></td></tr> <tr><td>KIUN 1420</td><td>100</td><td></td></tr> <tr><td>Port Arthur</td><td></td><td></td></tr> <tr><td>KPAC 1260</td><td>500</td><td></td></tr> <tr><td>San Angelo</td><td></td><td></td></tr> <tr><td>KGKL 1370</td><td>100</td><td></td></tr> <tr><td>San Antonio</td><td></td><td></td></tr> <tr><td>KABC 1420</td><td>100</td><td></td></tr> <tr><td>KMAC 1370</td><td>100</td><td></td></tr> <tr><td>KONO 1370</td><td>100</td><td></td></tr> <tr><td>KTSA 550</td><td>1000 C</td><td></td></tr> <tr><td>WQAI 1190</td><td>50000 N</td><td></td></tr> <tr><td>Tyler</td><td></td><td></td></tr> <tr><td>KGKB 1500</td><td>100</td><td></td></tr> <tr><td>Waco</td><td></td><td></td></tr> <tr><td>WACO 1420</td><td>100 C</td><td></td></tr> <tr><td>Westaco</td><td></td><td></td></tr> <tr><td>KRGV 1260</td><td>500</td><td></td></tr> <tr><td>Wichita Falls</td><td></td><td></td></tr> <tr><td>KGKO 570</td><td>250 C</td><td></td></tr> <tr><td colspan="3" style="text-align: center;">UTAH</td></tr> <tr><td>Ogden</td><td></td><td></td></tr> <tr><td>KLO 1400</td><td>500 N</td><td></td></tr> <tr><td>Price</td><td></td><td></td></tr> <tr><td>KEUB 1420</td><td>100</td><td></td></tr> <tr><td>Salt Lake City</td><td></td><td></td></tr> <tr><td>KDYL 1290</td><td>1000 N</td><td></td></tr> <tr><td>KSL 1130</td><td>50000 C</td><td></td></tr> <tr><td colspan="3" style="text-align: center;">VERMONT</td></tr> <tr><td>Burlington</td><td></td><td></td></tr> <tr><td>WCAX 1200</td><td>100</td><td></td></tr> <tr><td>Rutland</td><td></td><td></td></tr> <tr><td>WSYB 1500</td><td>100</td><td></td></tr> <tr><td>St. Albans</td><td></td><td></td></tr> <tr><td>WQDM 1370</td><td>100</td><td></td></tr> <tr><td>Springfield</td><td></td><td></td></tr> <tr><td>WNBX 1260</td><td>100</td><td></td></tr> <tr><td>Waterbury</td><td></td><td></td></tr> <tr><td>WDEV 550</td><td>500</td><td></td></tr> <tr><td colspan="3" style="text-align: center;">VIRGINIA</td></tr> <tr><td>Arlington</td><td></td><td></td></tr> <tr><td>NAA 690</td><td>1000</td><td></td></tr> <tr><td>Charlottesville</td><td></td><td></td></tr> <tr><td>WCHV 1420</td><td>100</td><td></td></tr> <tr><td>Danville</td><td></td><td></td></tr> <tr><td>WBTV 1370</td><td>100</td><td></td></tr> <tr><td>Harrisonburg</td><td></td><td></td></tr> <tr><td>WSVA 550</td><td>500</td><td></td></tr> <tr><td>Lynchburg</td><td></td><td></td></tr> <tr><td>WLVA 1200</td><td>100</td><td></td></tr> <tr><td>Newport News</td><td></td><td></td></tr> <tr><td>WGHN 1310</td><td>100</td><td></td></tr> <tr><td>Norfolk</td><td></td><td></td></tr> <tr><td>WTAR 780</td><td>500 N</td><td></td></tr> <tr><td>Petersburg</td><td></td><td></td></tr> <tr><td>WPHR 880</td><td>500</td><td></td></tr> <tr><td>Richmond</td><td></td><td></td></tr> <tr><td>WBBL 1210</td><td>100</td><td></td></tr> <tr><td>WMBG 1210</td><td>100 C</td><td></td></tr> <tr><td>WRVA 1110</td><td>5000 N</td><td></td></tr> <tr><td>Roanoke</td><td></td><td></td></tr> <tr><td>WDBJ 930</td><td>1000 C</td><td></td></tr> <tr><td colspan="3" style="text-align: center;">WASHINGTON</td></tr> <tr><td>Aberdeen</td><td></td><td></td></tr> <tr><td>KXRO 1310</td><td>100</td><td></td></tr> </table>	Lubbock			KFYO 1310	100		Midland			KRLH 1420	100		Palestine			KNET 1420	100		Pampa			KPDN 1310	100		Pecos			KIUN 1420	100		Port Arthur			KPAC 1260	500		San Angelo			KGKL 1370	100		San Antonio			KABC 1420	100		KMAC 1370	100		KONO 1370	100		KTSA 550	1000 C		WQAI 1190	50000 N		Tyler			KGKB 1500	100		Waco			WACO 1420	100 C		Westaco			KRGV 1260	500		Wichita Falls			KGKO 570	250 C		UTAH			Ogden			KLO 1400	500 N		Price			KEUB 1420	100		Salt Lake City			KDYL 1290	1000 N		KSL 1130	50000 C		VERMONT			Burlington			WCAX 1200	100		Rutland			WSYB 1500	100		St. Albans			WQDM 1370	100		Springfield			WNBX 1260	100		Waterbury			WDEV 550	500		VIRGINIA			Arlington			NAA 690	1000		Charlottesville			WCHV 1420	100		Danville			WBTV 1370	100		Harrisonburg			WSVA 550	500		Lynchburg			WLVA 1200	100		Newport News			WGHN 1310	100		Norfolk			WTAR 780	500 N		Petersburg			WPHR 880	500		Richmond			WBBL 1210	100		WMBG 1210	100 C		WRVA 1110	5000 N		Roanoke			WDBJ 930	1000 C		WASHINGTON			Aberdeen			KXRO 1310	100		<table border="1" style="width: 100%; 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W. TERRITORY</td></tr> <tr><td>Aklavik</td><td></td><td></td></tr> <tr><td>CJCU 1210</td><td>50</td><td></td></tr> <tr><td colspan="3" style="text-align: center;">NOVA SCOTIA</td></tr> <tr><td>Glace Bay</td><td></td><td></td></tr> <tr><td>VAS 685</td><td>2000</td><td></td></tr> <tr><td>Halifax</td><td></td><td></td></tr> <tr><td>CHNS 930</td><td>1000 F</td><td></td></tr> <tr><td>Sydney</td><td></td><td></td></tr> <tr><td>CJCB 1240</td><td>1000 F</td><td></td></tr> <tr><td>Wolfville</td><td></td><td></td></tr> <tr><td>CKIC 1010</td><td>50</td><td></td></tr> </table>	WYOMING			Casper			KDFN 1440	500		Sheridan			KWYO 1370	100		CANADA			ALBERTA			Calgary			CFAC 930	100 F		CFCN 1030	10000		CJCF 690	100 F		Edmonton			CFRN 1260	100 F		CJCA 730	1000 F		CKUA 580	500		Lethbridge			CJOC 950	100 F		BRITISH COLUMBIA			Chilliwack			CHWK 780	100 F		Kamloops			CFJC 880	100 F		Kelowna			CKOV 630	100 F		Prince Rupert			CFPR 580	50		Trail			CJAT 910	1000 F		Vancouver			CJOR 600	500		CKCD 1010	100		CKFC 1410	50		CKMO 1410	100 F		CKWX 1010	100 F		CRCV 1100	500 F		Victoria			CFCT 1450	75		MANITOBA			Brandon			CKX 1120	100 F		Winnipeg			CJRC 630	500 F		CKY 960	15000 F		NEW BRUNSWICK			Fredericton			CFNB 550	500 F		Moncton			CKCW 1370	100 F		St. John			CHSJ 1120	500 F		N. W. TERRITORY			Aklavik			CJCU 1210	50		NOVA SCOTIA			Glace Bay			VAS 685	2000		Halifax			CHNS 930	1000 F		Sydney			CJCB 1240	1000 F		Wolfville			CKIC 1010	50		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Yarmouth</td><td></td><td></td></tr> <tr><td>CJLS 1310</td><td>100</td><td></td></tr> <tr><td colspan="3" style="text-align: center;">ONTARIO</td></tr> <tr><td>Brantford</td><td></td><td></td></tr> <tr><td>CKPC 930</td><td>100 F</td><td></td></tr> <tr><td>Chatham</td><td></td><td></td></tr> <tr><td>CFCO 630</td><td>100 F</td><td></td></tr> <tr><td>Cobalt</td><td></td><td></td></tr> <tr><td>CKMC 1210</td><td>50</td><td></td></tr> <tr><td>Fort William</td><td></td><td></td></tr> <tr><td>CKPR 930</td><td>100 F</td><td></td></tr> <tr><td>Hamilton</td><td></td><td></td></tr> <tr><td>CHML 1010</td><td>100 F</td><td></td></tr> <tr><td>CKOC 1120</td><td>500 F</td><td></td></tr> <tr><td>Kingston</td><td></td><td></td></tr> <tr><td>CRFC 1510</td><td>100</td><td></td></tr> <tr><td>Kirkland Lake</td><td></td><td></td></tr> <tr><td>CJKL 1310</td><td>100 F</td><td></td></tr> <tr><td>London</td><td></td><td></td></tr> <tr><td>CFPL 730</td><td>100 F</td><td></td></tr> <tr><td>North Bay</td><td></td><td></td></tr> <tr><td>CFCH 930</td><td>100 F</td><td></td></tr> <tr><td>Ottawa</td><td></td><td></td></tr> <tr><td>CKCO 1010</td><td>100 F</td><td></td></tr> <tr><td>CRCO 880</td><td>1000 F</td><td></td></tr> <tr><td>Prescott</td><td></td><td></td></tr> <tr><td>CFLC 930</td><td>100</td><td></td></tr> <tr><td>St. Catharines</td><td></td><td></td></tr> <tr><td>CKTB 1200</td><td>100 F</td><td></td></tr> <tr><td>Sault Ste. 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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>CHIHUAHUA</p> <p>Chihuahua XEPI 1440 250</p> <p>Hidalgo XEAT 1210 50</p> <p>Juarez XEFV 1210 100 XEF 980 100 XEJ 1020 1000</p> <p>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>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>XEOK 760 250 XESL 1160</p> <p>MICHOACAN</p> <p>Morelia XEI 1370 125</p> <p>NUEVO LEON</p> <p>Monterrey XEFB 1420 100 XEFJ 1230 100 XEH 1150 250 XET 690 500 XEX 1310 125</p> <p>PUEBLA</p> <p>Puebla XETH 1210 100</p> <p>SAN LUIS POTOSI</p> <p>San Luis Potosi XEZZ 1370 100</p> <p>SONORA</p> <p>Hermosillo XEBH 930 500</p> <p>Nogales XEAF 990 500</p> <p>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>CMJK 780 250 CMJL 1340 100 CMJP 1430 75</p> <p>Cardenas CMGE 1370 150</p> <p>Ciego de Avila CMJH 1360 100 CMJI 1130 50 CMJO 1180 50</p> <p>Cienfuegos CMHJ 1160 100 CMHW 820 100 CMHX 760 200</p> <p>Cruces CMHK 1330 250</p> <p>Havana 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>Holguin CMKF 1460 250</p> <p>Manzanillo CMKM 1120 200</p> <p>Matanzas CMGC 1400 100 CMGF 1120 150 CMGH 790 250</p> <p>Sagua la Grande CMHA 1070 50</p> <p>Sancti Spiritus CMHB 1240 50</p> <p>Santa Clara CMHI 1210 150</p> <p>Santiago CMKC 1250 150 CMKD 1050 250 CMKR 1400 100 CMKX 1190 75</p>
<p>NEWFOUNDLAND</p> <p>St. John's VOAC 1065 40 VOAS 940 100 VOGY 840 400 VONF 1195 500 VOWR 681 500</p> <p>MIQUELON</p> <p>St. Pierre FQN 609 250</p> <p>CENTRAL AMERICA</p> <p>COSTA RICA</p> <p>Cartago TIFS 1441 7.5 TIGA 1014 30</p> <p>San Jose TIEP 850 500 TIFA 1050 75 TIGH 1000 500 TIRH 930 50</p>	<p>DURANGO</p> <p>Durango XEE 1210 50</p> <p>GUANAJUATO</p> <p>Guanajuato XEAZ 1420 7</p> <p>Leon XEKL 1240 500</p> <p>JALISCO</p> <p>Guadalajara XEA 1060 500 XED 1155 2500</p> <p>LOWER CALIFORNIA</p> <p>Coronado Island XEMZ 820</p> <p>Ensenada XEG 1270 200</p> <p>Mexicali XEA 920 200 XEAO 560 250</p> <p>Rosarito XEAQ 1090 1000</p> <p>Tijuana XEAC 1240 250 XEC 1160 30 XEFL 1150 250 XEMO 860 5000</p>	<p>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>YUCATAN</p> <p>Merida XEFC 560 100 XEY 1000 10 XEZ 630 500</p> <p>WEST INDIES</p> <p>CUBA</p> <p>Caibarien CMHD 1270 250</p> <p>Camaguey CMJA 1010 50 CMJC 1390 150 CMJE 1220 50 CMJF 1150 200</p>	<p>DOMINICAN REPUBLIC</p> <p>San Pedro de Macoris HIH 1395 15</p> <p>Trujillo HIJ 1195 15 HIX 800 700 HIZ 1370 10</p> <p>HAITI</p> <p>Port-au-Prince HHK 920 1000</p>
<p>GUATEMALA</p> <p>Guatemala City TGW 1210 10000 TGX 1400 250</p> <p>HONDURAS</p> <p>Tegucigalpa HRN 1340 100</p> <p>NICARAGUA</p> <p>Managua YNLF 1275 20 YNOP 1230 100 YNVA 950 30</p> <p>PANAMA</p> <p>Colon HP50 1440 25</p> <p>EL SALVADOR</p> <p>San Salvador RDN 680 500</p> <p>MEXICO</p> <p>AGUASCALIENTES</p> <p>Aguascalientes XFA 1310 5</p>			

NORTH AMERICAN B. C. STATIONS BY CALLS

CFAC 930 100 Calgary, Alta.	CJLS 1310 100 Yarmouth, N. S.	CMBS 770 150 Havana, Cuba
CFCF 600 400 Montreal, Que.	CJOC 950 100 Lethbridge, Alta.	CMBX 1060 200 Havana, Cuba
CFCH 930 100 North Bay, Ont.	CJOR 600 500 Vancouver, B. C.	CMBY 970 150 Havana, Cuba
CFCN 1030 10000 Calgary, Alta.	CJRC 630 500 Winnipeg, Man.	CMBZ 1000 150 Havana, Cuba
CFCO 630 100 Chatham, Ont.	CJRM 540 1000 Moose Jaw, Sask.	CMCA 1350 250 Havana, Cuba
CFCT 1450 75 Victoria, B. C.	CKAC 730 5000 Montreal, Que.	CMCB 1230 150 Havana, Cuba
CFCY 630 1000 Charlottetown, P.E.I.	CKBI 1210 100 Prince Albert, Sask.	CMCD 950 250 Havana, Cuba
CFJC 880 100 Kamloops, B. C.	CKCD 1010 100 Vancouver, B. C.	CMCF 810 600 Havana, Cuba
CFLC 930 100 Prescott, Ont.	CKCH 1210 100 Hull, Que.	CMCG 680 150 Havana, Cuba
CFNB 550 500 Fredericton, N. B.	CKCK 1010 500 Regina, Sask.	CMCJ 1110 500 Havana, Cuba
CFPL 730 100 London, Ont.	CKCL 580 100 Toronto, Ont.	CMCO 1200 150 Havana, Cuba
CFPR 580 50 Prince Rupert B. C.	CKCO 1010 100 Ottawa, Ont.	CMCQ 1420 250 Havana, Cuba
CFQC 840 1000 Saskatoon, Sask.	CKCR 1510 100 Waterloo, Ont.	CMCR 1380 150 Havana, Cuba
CFRB 690 10000 Toronto, Ont.	CKCV 1310 100 Quebec, Que.	CMCU 1460 150 Havana, Cuba
CFRC 1510 100 Kingston, Ont.	CKCW 1370 100 Moncton, N. B.	CMCW 750 150 Havana, Cuba
CFRN 1260 100 Edmonton, Alta.	CKFC 1410 50 Vancouver, B. C.	CMCX 1500 150 Havana, Cuba
CHAB 1200 100 Moose Jaw, Sask.	CKGB 1420 100 Timmins, Ont.	CMCY 1030 1000 Havana, Cuba
CHCK 1310 50 Charlottetown, P.E.I.	CKIC 1010 50 Wolfville, N. S.	CMGC 1400 100 Matanzas, Cuba
CHGS 1450 50 Summerside, P.E.I.	CKLW 1030 5000 Windsor, Ont.	CMGE 1370 150 Cardenas, Cuba
CHLP 1120 100 Montreal, Que.	CKMC 1210 50 Cobalt, Ont.	CMGF 1120 250 Matanzas, Cuba
CHML 1010 100 Hamilton, Ont.	CKMO 1410 100 Vancouver, B. C.	CMGH 790 250 Matanzas, Cuba
CHNC 1410 500 New Carlisle, Que.	CKNX 1200 50 Wingham, Ont.	CMHA 1070 50 Sagua la Grande, Cu.
CHNS 930 1000 Halifax, N. S.	CKOC 1120 500 Hamilton, Ont.	CMHB 1240 50 Sancti Spiritus, Cuba
CHRC 580 100 Quebec, Que.	CKOV 630 100 Kelowna, B. C.	CMHD 1270 250 Cabarlen, Cuba
CHSJ 1120 500 St. John, N. B.	CKPC 930 100 Brantford, Ont.	CMHI 1210 150 Santa Clara, Cuba
CHWC 1010 500 Regina, Sask.	CKPR 930 100 Fort William, Ont.	CMHJ 1160 100 Cienfuegos, Cuba
CHWK 780 100 Chilliwack, B. C.	CKSO 780 1000 Sudbury, Ont.	CMHK 1330 250 Cruces, Cuba
CJAT 910 1000 Trail, B. C.	CKTB 1200 100 St. Catharines, Ont.	CMHW 820 100 Cienfuegos, Cuba
CJCA 730 1000 Edmonton, Alta.	CKUA 580 500 Edmonton, Alta.	CMHX 760 200 Cienfuegos, Cuba
CJCB 1240 1000 Sydney, N. S.	CKWX 1010 100 Vancouver, B. C.	CMJA 1010 50 Camaguey, Cuba
CJ CJ 690 100 Calgary, Alta.	CKX 1120 100 Brandon, Man.	CMJC 1390 150 Camaguey, Cuba
CJCS 1210 50 Stratford, Ont.	CKY 960 15000 Winnipeg, Man.	CMJE 1220 50 Camaguey, Cuba
CJCU 1210 50 Aklavik, N. W. T.	CMBC 640 150 Havana, Cuba	CMJF 1150 200 Camaguey, Cuba
CJGX 580 100 Yorkton, Sask.	CMBD 1170 150 Havana, Cuba	CMJH 1360 100 Ciego de Avila, Cuba
CJIC 1500 100 S. Ste. Marie, Ont.	CMBG 1140 200 Havana, Cuba	CMJI 1130 Ciego de Avila, Cuba
CJKL 1310 100 Kirkland Lake, Ont.	CMBN 850 150 Havana, Cuba	CMJK 780 250 Camaguey, Cuba

NORTH AMERICAN B. C. STATIONS BY CALLS

CMJL 1340	100	KARK 890	250	KFJI 1210	100
Camaguey, Cuba		Little Rock, Ark.		Klamath Falls, Ore.	
CMJO 1180	50	KASA 1210	100	KFJM 1370	100
Ciego de Avila, Cuba		Elk City, Okla.		Grand Forks, N. D.	
CMJP 1430	75	KAST 1370	100	KFJR 1300	500
Camaguey, Cuba		Astoria, Ore.		Portland, Ore.	
CMK 730	3000	KBIX 1500	100	KFJZ 1370	100
Havana, Cuba		Muskogee, Okla.		Fort Worth, Texas	
CMKC 1250	150	KBPS 1420	100	KFKA 880	500
Santiago, Cuba		Portland, Ore.		Greeley, Colo.	
CMKD 1050	250	KBTM 1200	100	KFKU 1220	1000
Santiago, Cuba		Jonesboro, Ark.		Lawrence, Kans.	
CMKF 1460	250	KCMC 1420	100	KFNF 890	500
Holguln, Cuba		Texarkana, Ark.		Shenandoah, Iowa	
CMKM 1120	200	KCRC 1360	250	KFNR 1210	100
Manzanillo, Cuba		Enid, Okla.		Lincoln, Neb.	
CMKR 1400	100	KCRJ 1310	100	KFOX 1250	1000
Santiago, Cuba		Jerome, Ariz.		Long Beach, Calif.	
CMKX 1190	75	KDB 1500	100	KFPL 1310	100
Santiago, Cuba		Santa Barbara, Calif.		Dublin, Texas	
CMOA 1440	150	KDFN 1440	500	KFFW 1210	100
Havana, Cuba		Casper, Wyo.		Fort Smith, Ark.	
CMOK 1470	150	KDKA 980	50000	KFPY 890	1000
Havana, Cuba		Pittsburgh, Pa.		Spokane, Wash.	
CMOX 1320	200	KDLR 1210	100	KFQD 780	250
Havana, Cuba		Devils Lake, N. D.		Anchorage, Alaska	
CMQ 880	500	KDON 1210	100	KFRG 610	1000
Havana, Cuba		Del Monte, Calif.		San Francisco, Calif.	
CMW 600	1400	KDYL 1290	1000	KFRO 1370	100
Havana, Cuba		Salt Lake City, Utah		Longview, Texas	
CMX 920	1000	KECA 1430	1000	KFRU 630	500
Havana, Cuba		Los Angeles, Calif.		Columbia, Mo.	
CRCK 1050	1000	KELD 1370	100	KFSD 600	1000
Quebec, Que.		El Dorado, Ark.		San Diego, Calif.	
CRCM 910	5000	KELW 780	500	KFSO 1120	500
Montreal, Que.		Burbank, Calif.		Los Angeles, Calif.	
CRCO 880	1000	KERN 1370	100	KFUO 550	500
Ottawa, Ont.		Bakersfield, Calif.		St. Louis, Mo.	
CRCS 950	100	KEUB 1420	100	KFVU 1000	250
Chicoutimi, Que.		Price, Utah		Los Angeles, Calif.	
CRCT 840	5000	KEX 1180	5000	KFVS 1210	100
Toronto, Ont.		Portland, Ore.		Cape Girardeau, Mo.	
CRCV 1100	500	KFAB 770	10000	KFWB 950	1000
Vancouver, B. C.		Lincoln, Neb.		Hollywood, Calif.	
CRCW 600	500	KFAC 1300	1000	KFXD 1200	100
Windsor, Ont.		Los Angeles, Calif.		Nampa, Idaho	
FQN 609	250	KFBB 1280	1000	KFXJ 1200	100
St. Pierre, Miq.		Great Falls, Mont.		Grand Junction, Colo.	
HHK 920	1000	KFBI 1050	5000	KFXM 1210	100
Port-au-Prince, Haiti		Abilene, Kans.		San Bernardino, Calif.	
HIH 1395	15	KFBK 1490	5000	KFXR 1310	100
San Pedro de M., D.R.		Sacramento, Calif.		Oklahoma City, Okla.	
HIJ 1195	15	KFDM 560	500	KFYO 1310	100
Trujillo, D. R.		Beaumont, Texas		Lubbock, Texas	
HIX 800	700	KFDY 780	1000	KFYR 550	1000
Trujillo, D. R.		Brookings, S. D.		Bismarck, N. D.	
HIZ 1370	10	KFEL 920	500	KGA 1470	5000
Trujillo, D. R.		Denver, Colo.		Spokane, Wash.	
HP50 1440	25	KFEQ 680	2500	KGAR 1370	100
Colon, Panama		St. Joseph, Mo.		Tucson, Ariz.	
HRN 1340	100	KFGQ 1370	100	KGB 1330	1000
Tegucigalpa, Hond.		Boone, Iowa		San Diego, Calif.	
KABC 1420	100	KFH 1300	1000	KGBU 900	500
San Antonio, Texas		Wichita, Kans.		Ketchikan, Alaska	
KABR 1420	100	KFI 640	50000	KGBX 1230	500
Aberdeen, S. Dak.		Los Angeles, Calif.		Springfield, Mo.	
KADA 1200	100	KFIO 1120	100	KGBZ 930	1000
Ada, Okla.		Spokane, Wash.		York, Neb.	
KALB 1420	100	KFIZ 1420	100	KGCA 1270	100
Alexandria, La.		Fond du Lac, Wis.		Decorah, Iowa	
KALE 1300	500	KFJB 1200	100	KGCU 1240	250
Portland, Ore.		Marshalltown, Iowa		Mandan, N. D.	

NORTH AMERICAN B. C. STATIONS BY CALLS

KG CX 1310	100	KHBC 1420	100	KMPC 710	500
Wolf Point, Mont.		Hilo, T. H.		Beverly Hills, Calif.	
KGDE 1200	100	KHJ 900	1000	KMTR 570	1000
Fergus Falls, Minn.		Los Angeles, Calif.		Hollywood, Calif.	
KGDM 1100	1000	KHQ 590	1000	KNEL 1500	100
Stockton, Calif.		Spokane, Wash.		Brady, Texas	
KG DY 1340	250	KHSL 950	250	KNET 1420	100
Huron, S. D.		Chico, Calif.		Palestine, Texas	
KGEK 1200	100	KICA 1370	100	KNOW 1500	100
Sterling, Colo.		Clovis, N. M.		Austin, Texas	
KGER 1360	1000	KID 1320	500	KNX 1050	50000
Long Beach, Calif.		Idaho Falls, Idaho		Hollywood, Calif.	
KGEZ 1310	100	KIDO 1350	1000	KOA 830	50000
Kalispell, Mont.		Boise, Idaho		Denver, Colo.	
KGFF 1420	100	KIDW 1420	100	KOAC 550	1000
Shawnee, Okla.		Lamar, Colo.		Corvallis, Ore.	
KGFG 1370	100	KIEM 1450	500	KOB 1180	10000
Oklahoma City, Okla.		Eureka, Calif.		Albuquerque, N. M.	
KGFI 1500	100	KIEV 850	250	KOH 1380	500
Corpus Christi, Texas		Glendale, Calif.		Reno, Nev.	
KG FJ 1200	100	KINY 1310	100	KOIL 1260	1000
Los Angeles, Calif.		Juneau, Alaska		Council Bluffs, Iowa	
KGFK 1500	100	KIRO 710	500	KOIN 940	1000
Moorhead, Minn.		Seattle, Wash.		Portland, Ore.	
KGFL 1370	100	KIT 1310	100	KOL 1270	1000
Roswell, N. M.		Yakima, Wash.		Seattle, Wash.	
KGFW 1310	100	KIUJ 1310	100	KOMA 1480	5000
Kearney, Neb.		Santa Fe, N. Mex.		Oklahoma City, Okla.	
KGFX 630	200	KIUL 1210	100	KOMO 920	1000
Pierre, S. D.		Garden City, Kans.		Seattle, Wash.	
KG GC 1420	100	KIUN 1420	100	KONO 1370	100
San Francisco, Calif.		Pecos, Texas		San Antonio, Texas	
KG GF 1010	1000	KIUP 1370	100	KOOS 1390	250
Coffeyville, Kans.		Durango, Colo.		Marshfield, Ore.	
KGGM 1230	250	KJBS 1070	500	KORE 1420	100
Albuquerque, N. M.		San Francisco, Calif.		Eugene, Ore.	
KGHF 1320	500	KJR 970	5000	KOTN 1500	100
Pueblo, Colo.		Seattle, Wash.		Pine Bluffs, Ark.	
KGHI 1200	100	KLCN 1290	100	KOY 1390	500
Little Rock, Ark.		Blytheville, Ark.		Phoenix, Ariz.	
KGHL 780	1000	KLO 1400	500	KPAC 1260	500
Billings, Mont.		Ogden, Utah		Port Arthur, Texas	
KGIR 1340	1000	KLPM 1240	250	KPDN 1310	100
Butte, Mont.		Minot, N. D.		Pampa, Texas	
KGIW 1420	100	KLRA 1390	1000	KPLC 1500	100
Alamosa, Colo.		Little Rock, Ark.		Lake Charles, La.	
KGKB 1500	100	KLS 1440	250	KPO 680	50000
Tyler, Texas		Oakland, Calif.		San Francisco, Calif.	
KGKL 1370	100	KLUF 1370	100	KPOF 880	500
San Angelo, Texas		Galveston, Texas		Denver, Colo.	
KGKO 570	250	KLX 880	1000	KPPC 1210	50
Wichita Falls, Texas		Oakland, Calif.		Pasadena, Calif.	
KGKY 1500	100	KLZ 560	1000	KPQ 1500	100
Scottsbluff, Neb.		Denver, Colo.		Wenatchee, Wash.	
KGMB 1320	1000	KMA 930	1000	KPRC 920	1000
Honolulu, T. H.		Shenandoah, Iowa		Houston, Texas	
KGNC 1410	1000	KMAC 1370	100	KQV 1380	500
Amarillo, Texas		San Antonio, Texas		Pittsburgh, Pa.	
KGNF 1430	1000	KMBC 950	1000	KQW 1010	1000
North Platte, Neb.		Kansas City, Mo.		San Jose, Calif.	
KGNO 1340	250	KMED 1310	100	KRE 1370	100
Dodge City, Kans.		Medford, Ore.		Berkeley, Calif.	
KGO 790	7500	KMJ 580	1000	KRGV 1260	500
San Francisco, Calif.		Fresno, Calif.		Weslaco, Texas	
KGU 750	2500	KMLB 1200	100	KRKD 1120	500
Honolulu, T. H.		Monroe, La.		Los Angeles, Calif.	
KGVO 1260	1000	KMMJ 740	1000	KRKO 1370	50
Missoula, Mont.		Clay Center, Neb.		Everett, Wash.	
KGW 620	1000	KMO 1330	250	KRLC 1420	100
Portland, Ore.		Tacoma, Wash.		Lewiston, Idaho	
KGY 1210	100	KMOX 1090	50000	KRLD 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 Glace 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 Rochester, Minn.	100	KVOL 1310 Lafayette, La.	100	VOAS 940 St. John's, Nfld.	100
KROW 930 Oakland, Calif.	1009	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 580 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	KWLS 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	WALS 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.	1800
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	WIBC 1290 Superior, Wis.	1000
WBBC 1400 Brooklyn, N. Y.	500	WCBS 1420 Springfield, Ill.	100	WIBQ 1210 Harrisburg, Ill.	100
WBBL 1210 Richmond, Va.	100	WCCO 810 Minneapolis, Minn.	50000	WIBR 1310 Buffalo, N. Y.	100
WBBM 770 Chicago, Ill.	50000	WCFL 970 Chicago, Ill.	5000	WIDC 1210 Chicago, Ill.	100
WBBR 1300 Brooklyn, N. Y.	1000	WCBS 580 Charleston, W. Va.	500	WEED 1420 Rocky Mount, N. C.	100
WBBZ 1200 Ponca City, Okla.	100	WCHV 1420 Charlottesville, Va.	100	WEEL 590 Boston, Mass.	1000
WBCM 1410 Bay City, Mich.	500	WCKY 1490 Covington, Ky.	5000	WEFU 830 Reading, Pa.	1000
WBEN 900 Buffalo, N. Y.	1000	WCLO 1200 Janesville, Wis.	100	WEGL 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 Altoona, 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	WFBN 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	WFDF 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	WDOD 1280 Chattanooga, Tenn.	1000	WFIL 560 Philadelphia, Pa.	1000
WCAU 1170 Philadelphia, Pa.	50000	WDRG 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	WGAR 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

WGFB 630 Evansville, Ind.	500	WHK 1390 Cleveland, Ohio	1000	WJDX 1270 Jackson, Miss.	1000
WGBI 880 Scranton, Pa.	500	WHLB 1370 Virginia, Minn.	100	WJEJ 1210 Hagerstown, Md.	100
WGCM 1210 Gulfport, Miss.	100	WHN 1010 New York, N. Y.	1000	WJIM 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	WKBH 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	WKBV 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	WKBU 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 Fortsmouth, 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	WLBL 900 Stevens Point, Wis.	2500
WHFC 1420 Cicero, Ill.	100	WJBO 1420 Baton Rouge, La.	100	WLBZ 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 Chicago, Ill.	WNBH 1310 100 New Bedford, Mass.	WPRP 1420 100 Ponce, P. R.
WLTH 1400 500 Brooklyn, N. Y.	WNBR 1430 500 Memphis, Tenn.	WPTF 680 5000 Raleigh, N. C.
WLVA 1200 100 Lynchburg, Va.	WNBX 1260 1000 Springfield, Vt.	WQAM 560 1000 Miami, Fla.
WLW 700 500000 Cincinnati, Ohio	WNBZ 1290 100 Saranac Lake, N. Y.	WQAN 880 250 Scranton, Pa.
WLWL 1100 5000 New York, N. Y.	WNEL 1290 1000 San Juan, P. R.	WQBC 1360 1000 Vicksburg, Miss.
WMAL 630 250 Washington, D. C.	WNEW 1250 1000 Newark, N. J.	WQDM 1370 100 St. Albans, Vt.
WMAQ 670 50000 Chicago, Ill.	WNOX 1010 1000 Knoxville, Tenn.	WRAC 1370 100 Williamsport, Pa.
WMAS 1420 100 Springfield, Mass.	WNRI 1200 100 Newport, R. I.	WRAP 1310 100 Reading, Pa.
WMAZ 1180 1000 Macon, Ga.	WNYC 810 1000 New York, N. Y.	WRAX 920 250 Philadelphia, Pa.
WMBC 1420 100 Detroit, Mich.	WOAI 1190 50000 San Antonio, Texas	WRBL 1200 100 Columbus, Ga.
WMBD 1440 500 Peoria, Ill.	WOC 1370 100 Davenport, Iowa	WRC 950 500 Washington, D. C.
WMBG 1210 100 Richmond, Va.	WOCL 1210 50 Jamestown, N. Y.	WRDO 1370 100 Augusta, Me.
WMBH 1420 100 Joplin, Mo.	WOI 640 5000 Ames, Iowa	WRDW 1500 100 Augusta, Ga.
WMBI 1080 5000 Chicago, Ill.	WOKO 1430 500 Albany, N. Y.	WREC 600 1000 Memphis, Tenn.
WMBO 1310 100 Auburn, N. Y.	WOL 1310 100 Washington, D. C.	WREN 1220 1000 Lawrence, Kans.
WMBQ 1500 100 Brooklyn, N. Y.	WOMT 1210 100 Manitowoc, Wis.	WRGA 1500 100 Rome, Ga.
WMBR 1370 100 Jacksonville, Fla.	WOOD 1270 500 Grand Rapids, Mich.	WRJN 1370 100 Racine, Wis.
WMC 780 1000 Memphis, Tenn.	WOPI 1500 100 Bristol, Tenn.	WRKQ 1410 500 Rockford, Ill.
WMCA 570 500 New York, N. Y.	WOR 710 50000 Newark, N. J.	WROL 1310 100 Knoxville, Tenn.
WMEX 1500 100 Boston, Mass.	WORC 1280 500 Worcester, Mass.	WRR 1280 500 Dallas, Texas
WMFD 1370 100 Wilmington, N. C.	WORK 1320 1000 York, Pa.	WRUF 830 5000 Gainesville, Fla.
WMFF 1310 250 Plattsburg, N. Y.	WORL 920 500 Needham, Mass.	WRVA 1110 5000 Richmond, Va.
WMFG 1210 100 Hibbing, Minn.	WOS 630 500 Jefferson City, Mo.	WSAI 1330 1000 Cincinnati, Ohio
WMFJ 1420 100 Daytona Beach, Fla.	WOSU 570 750 Columbus, Ohio	WSAJ 1310 100 Grove City, Pa.
WMFN 1210 100 Clarksdale, Miss.	WOV 1130 1000 New York, N. Y.	WSAN 1440 500 Allentown, Pa.
WMFO 1370 100 Decatur, Ala.	WOW 590 5000 Omaha, Neb.	WSAR 1350 1000 Fall River, Mass.
WMFR 1200 100 High Point, N. C.	WOWO 1160 10000 Fort Wayne, Ind.	WSAY 1210 100 Rochester, N. Y.
WMMN 890 500 Fairmount, W. Va.	WPAD 1420 100 Paducah, Ky.	WSAZ 1190 1000 Huntington, W. Va.
WMPC 1200 100 Lapeer, Mich.	WPAR 1420 100 Parkersburg, W. Va.	WSB 740 50000 Atlanta, Ga.
WMSD 1420 100 Sheffield, Ala.	WPAX 1210 250 Thomasville, Ga.	WSBC 1210 100 Chicago, Ill.
WMT 600 1000 Cedar Rapids, Iowa	WPAY 1370 100 Portsmouth, Ohio	WSBT 1360 500 South Bend, Ind.
WNAC 1230 1000 Boston, Mass.	WPEN 920 250 Philadelphia, Pa.	WSFA 1410 500 Montgomery, Ala.
WNAD 1010 1000 Norman, Okla.	WPFJ 1370 100 Hattiesburg, Miss.	WSGN 1310 100 Birmingham, Ala.
WNAX 570 1000 Yankton, S. D.	WPG 1100 5000 Atlantic City, N. J.	WSIX 1210 100 Springfield, Tenn.
WNBC 1380 250 New Britain, Conn.	WPHR 880 500 Petersburg, Va.	WSJS 1310 100 Winston-Salem, N. C.
WNBF 1500 100 Binghamton, N. Y.	WPRO 630 250 Providence, R. I.	WSM 650 50000 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	W1XBS 1530 Waterbury, Conn.	1000	XEG 1270 Ensenada, B. C.	200
WSUI 880 Iowa City, Iowa	500	W2XR 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	5000	XEAM 750 Matamoros, Tams.	7.5	XEMZ 820 Coronado Isl., L. C.	.....
WTAQ 1330 Green Bay, Wis.	1000	XEAO 560 Mexicali, B. C.	250	XEN 710 Mexico City, D. F.	1000
WTAR 780 Norfolk, Va.	500	XEAQ 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.	5000	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	XEWF 1150 Mexico City, D. F.	100
WTRC 1310 Elkhart, Ind.	100	XEFB 1420 Monterrey, N. L.	100	XEX 1310 Monterrey, N. L.	125
WVFW 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**

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AROUND THE CLOCK ON THE SHORTWAVES

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.	11:15
Central Time P. M.	11:30
Central Time P. M.	11:45
Central Time P. M.	12:00
Central Time P. M.	12:15
Central Time P. M.	12:30
Central Time P. M.	12:45
Central Time P. M.	13:00
Central Time P. M.	13:15
Central Time P. M.	13:30
Central Time P. M.	13:45
Central Time P. M.	14:00
Central Time P. M.	14:15
Central Time P. M.	14:30
Central Time P. M.	14:45
Central Time P. M.	15:00
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Central Time P. M.	22:00
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Central Time P. M.	06:45
Central Time P. M.	07:00
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Central Time P. M.	07:45
Central Time P. M.	08:00
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Central Time P. M.	09:30
Central Time P. M.	09:45
Central Time P. M.	10:00
Central Time P. M.	10:15
Central Time P. M.	10:30
Central Time P. M.	10:45

QUICK INDEX TO ALL STATION DATA

NORTH AMERICAN BROADCAST

Frequency Checks.....February, Page 33
 Owners' AddressMay, Page 77
 Time on the Air.....February, Page 78
 By FrequenciesMay, Page 77
 By LocationsMay, Page 93
 By CallsMay, Page 99

SHORT WAVE

By FrequenciesApril, Page 52
 By LocationsApril, Page 77
 By CallsApril, Page 82
 When to Tune.....March, Page 107
 Recent Changes.....May, Page 48

FOREIGN BROADCAST

Time of Europeans.....October, Page 3
 By FrequenciesMay, Page 62
 By LocationsMay, Page 71
 By Call LettersMay, Page 76

LONG WAVE

By FrequenciesApril, Page 49
 By LocationsApril, Page 51
 By Call LettersApril, Page 52

MISCELLANEOUS

Which Is the Best Aerial.....March, 1935
 Eliminating NoisesApril, 1935
 Sets for the Short Waves.....April, 1935
 Short Wave SymbolsApril, 1935
 The "V" Doublet Antenna.....May, 1935
 Verifying the S. W. Stations June, 1935
 Converting B. C. Sets to S. W.
 June, 1935
 Building a Crystal Set.....October, 1935

NORTH AMERICAN B. C. STATIONS BY CALLS

<i>Continued from</i>		XFD	1340	350
<i>Page 106</i>		Jalapa, Ver.		
	XEZZ	1370	100	
	San Luis Potosi, S.L.P.			
	XFA	1310	5	
	Aguascalientes, Ags.			
	XFB	1270	250	
	Jalapa, Ver.			
	XFC	810	350	
	Aguascalientes, Ags.			
	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			

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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 8:00 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.

1 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 plain lucky.

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

If you had told me that twelve months later I would be making \$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.

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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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