THE MAY 1938



RADEX

The All-wave Radio Log



Short Wave List Showing

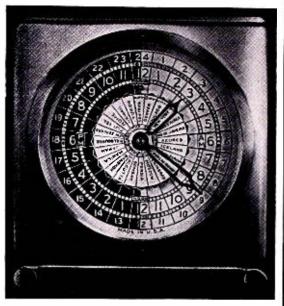
Names and Addresses, Location, Slogans,

And Schedules of all Stations

Amateur Stations Heard

NOW IT'S ELECTRIC!

THE CLOCK THAT CAN BE SET AT ANY OF THE WORLD'S 24 TIME ZONES



Modernistic Design of Brushed Brass

Tells time like an ordinary clock and automatically shows authentic time in every other zone around the world.

Actual size is 54 inches high by 4% inches wide.

Has A. M. and P. M. divided dial and 24-hour dial. Indicates minutes and quarter hours.

Just plug it in and set it for the correct time. No further adjustment nor calculation is required.

For AC 110-120 volts, 60 cycles
What DXers Have Always Wished For!
THE ELECTRIC WORLD-TIME CLOCK

\$5.95

Also available in same style case in springdriven model at \$4.95. We pay the postage.

THE RADEX PRESS

14717 Detroit Ave.,

Cleveland, Ohio

MAY 1, 1938



Reg. U. S. Patent Office

ELIZABETH S. BUTLER Publisher

> PAGE TAYLOR Editor

ASSOCIATE EDITORS

B. FRANCIS DASHIELL, Technical CARLETON LORD, Broadcast

FOURTEENTH YEAR

Number 119

CONTENTS

Cover Girl-Shirley Lloyd, NBC Singer

Ł
2
4
5
6
14
21
22
24
29
30
32
34
37
38
40
42

\$1.75 Per Year

25c Per Copy

See Subscription Blank on Page 96 Published Monthly Excepting July and August

THE RADEX PRESS

14717 Detroit Avenue

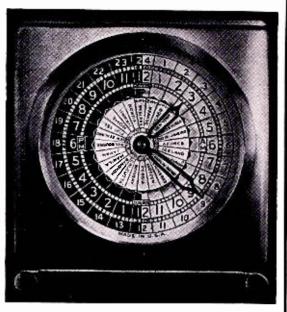
Cleveland, Ohio

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

Printed in U.S.A.

NOW IT'S ELECTRIC!

THECLOCKTHAT
CAN BE SET AT
ANY OF THE
WORLD'S 24
TIME ZONES



Modernistic Design of Brushed Brass

Tells time like an ordinary clock and automatically shows authentic time in every other zone around the world.

Actual size is 54 inches high by 4% inches wide.

Has A. M. and P. M. divided dial and 24-hour dial. Indicates minutes and quarter hours.

Just plug it in and set it for the correct time. No further adjustment nor calculation is required.

For AC 110-120 volts, 60 cycles
What DXers Have Always Wished For!
THE ELECTRIC WORLD-TIME CLOCK

\$5.95

Also available in same style case in springdriven model at \$4.95. We pay the postage.

THE RADEX PRESS

14717 Detroit Ave.,

Cleveland, Ohio

MAY 1, 1938



Reg. U. S. Patent Office

ELIZABETH S. BUTLER Publisher

> PAGE TAYLOR Editor

ASSOCIATE EDITORS

B. FRANCIS DASHIELL, Technical CARLETON LORD, Broadcast

FOURTEENTH YEAR

Number 119

CONTENTS

Cover Girl-Shirley Lloyd, NBC Singer

\$1.75 Per Year

25c Per Copy

See Subscription Blank on Page 96 Published Monthly Excepting July and August

THE RADEX PRESS

14717 Detroit Avenue

Cleveland, Ohio

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

Printed in U.S.A.

A DECADE of Shortwave Broadcasting

• • TI4NRH Celebrates

N MAY 4, 1928, in the city of Heredia, in Costa Rica, a man threw a switch which put into operation a tiny radio transmitter, but little did he think at the time that he was giving life to a voice that was soon to become famous in nearly every part of the world. This little pile of radio apparatus was called "NRH," and its voice was but seven and one half watts weak, not even strong enough to light the smallest electric light bulb.

Hoping to provide entertainment for the people in his own land and the surrounding countries of Nicaragua' and Panama, the operator waited until KDKA had signed off for the night, tuned NRH to the forty meter band, and broadcast a few phonograph records. For ten nights he did this, without receiving a single comment, but finally, on the eleventh day, he received a letter, dated May 11, from an American army officer stationed at Gatun. in the Canal Zone. This report was the first of nearly ten thousand which have been received by this station.

NRH was the fifth station to broadcast programs on shortwaves, being preceded only by the experimental broadcasters in Hilversum, Netherlands; Chelmsford, England; Schenectady, N. Y.; and Pittsburgh, Pa. As far as we know, NRH is the only broadcaster to be heard on every continent with but seven and one half watts of power.

The Friendliest Station

Now known as TI4NRH, this broadcaster has grown to a lusty 500 watts. As the power of TI4NRH has grown, so has the size of its



Columbia's new time signal, which is tuned to the precise standard pitch of "A", vibrates in tune as Jane Pickens sings a duet with it. The man striking it is the Old Maestro Ben Bernie. This tubular chime was constructed especially for CBS for use in sounding its daily time signals to coordinate the various stations of the coast-to-coast network.

audience and the number of its friends. Today the operator, Sr. Amando Cespedes Marin, enjoys the distinction of being the most friendly broadcaster in the world, and he still broadcasts, as he says, "just for the fun of it." In an article specially written for RADEX, Sr. Cespedes wrote, in June, 1933,

"It is all love down here and fun, therefore we all make merryment, and when Miss Cespedes speaks, we laugh and when my boy plays the piano we applause and when the music is pretty I whistle. I am just beginning to live. And radio is my

......

plaything. The NRH has been a friend and it ever will be, because she does not carry paid up advertising, but that of his owner announcing his gospel of Friendship..."

The May Celebrations

During May of this year, Sr. Cespedes is celebrating his Tenth Anniversary of non-commercial broadcasting. Each day during May he will dedicate his program to friends who were among his original listeners, and to radio clubs and magazines. He requests reports on these transmissions, and especially appreciates receiving reports by air mail. Instead of sending an International Reply Coupon, listeners are urged to send ten cents in coin or in unused stamps. Reply Coupons are of no use to him as he has free use of the mails. In return for reports, listeners will receive a large diploma, 11 by 16 inches in size, and lithographed in three colors.

The address is Sr. Amando Cespedes Marin, Apartado 40, Heredia,

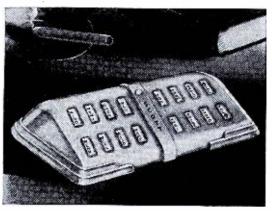
Costa Rica.

The schedule of special broadcasts by days is given at the end of this article. Special attention is invited, however, to the transmission of May 25, which will be dedicated to RADEX and to its Editor, who has been an NRH listener for eight years.

The Dedications by Days

- 1. To Costa Rica, the Land of Peace.
- 2. To Heredia, the city of flowers and coffee trees.
- 3. To *The Society of Wireless Pioneers* and Mr. Michael
 Michelson, Minneapolis, Minn.
- 4. Commemorating the first NRH broadcast, May 4, 1928, with 7½ watts power.
- To Radio News and Short Wave Radio, and Laurence M. Cockaday.
- 6. To The United States of America.

SCOTT ANNOUNCES THE TELEMATIC



$oldsymbol{A}$ Revolutionary NEW MUSICAL INSTRUMENT

Not a radio or phenograph in the accepted sense, for there are no dials, no knobs, no indicators. Yet it re-creates your selection of favorite broadcasts and recorded music with such tonal perfection and absence of "needle scratch" that your guests cannot tell whether they are hearing records or a fine studio broadcast. The only visible evidence of this amazing instrument is the 7 inch Control Key Board, if the easily concealed installation is preferred.

A MODERN ALADDIN

Radio or recorded entertainment may be selected for the entire evening, in advance! You set a simple mechanism, then with no more attention than is required for thermostatically controlled temperature, the TELEMATIC tunes in every broadcast, at the exact time you have indicated. Changes can be made instantly by pressing a key at your elbow.

MANY MORE AMAZING FEATURES

Get details and moderate prices on this newest development of Scott Research Labs., famous for 14 years as custom

builders of world's finest Radio. NOT SOLD THROUGH STORES. MAIL COUPON NOW!

E. H. SCOTT RADIO LABS. 4424 Ravenswood Ave., Dept. 15H8, Chicago, III.

Send all facts on new SCOTT TELEMATIC. No obligation.



Name		 . .		• •		٠.		•		 •		•	٠.			•	•	٠.			٠.	
Addres	s	٠.			•	 			•	 •	•			ŧ.								
City		 											Si	ta	t	e						

STUDIOS: CHICAGO, NEW YORK, LOS ANGELES, LONDON

- 7. To the *Chicago Short Wave Radio Club*, and its president, Mr. Harold Wright, of Chicago, Ill.
- 8. To the Catholic Church and Mons. Dr. Carlos Borge, Domestic Prelate to Pope Pius XI.
- 9. To Mr. Joseph Brown Sessions of Bristol, Conn., a friend who has written an airmail letter to Sr. Cespedes every week for the past ten years.
- To the International Short Wave Club, and its president, Mr. Arthur J. Green, of E. Liverpool, Ohio.
- 11. To Sr. Juan Bautista Carapaica, and Sr. Ivan Mathias de Pool, of Caracas, Venezuela.
- 12. To the Short Wave League and Mr. Hugo Gernsback.
- 13. To the New Zealand shortwave radio clubs and Mr. A. B. McDonaugh of Wellington.
- 14. To Mr. Charles Hughes, secretary of the *Chicago Short Wave Radio Club*.
- 15. To the *Universal DX Club*, and its president, Alfred J. Stansfield, of Oradell, N. J.
- 16. To radio station KDKA, Pittsburgh, Pa.
- 17. To Mr. Arthur Dorr and Mr. Wallace Dean, of Hartford, Conn.
- 18. To the *International DX'ers Alliance*, and its president, Mr. Charles Morrison, of Bloomington, Ill.
- 19. To the Radio Signal Survey League, and All Wave Radio.
- 20. To Mr. Jacob H. Borofsky of Boston, Mass.
- 21. To Mr. William H. Reeks, and his sister, Miss Edith Reeks, of Chicago, Ill.
- 22. To the *Quixote Radio Club* and Mr. E. J. Shields, of Santa Barbara, Calif.
- 23. To the *Club de Ondas Cortas*, *Radio-Guia*, and Sr. Pedro

- Acosta Diaz, of Havana, Cuba.
- 24. To the Newark News Radio Club, and its president, Mr. Irving R. Potts, of Newark, N. J.
- 25. To RADEX and Page Taylor, of Cleveland, Ohio.
- 26. To the Globe Circlers' DX Club and Raphael Geller, of the Bronx, N. Y.
- 27. To the *British* Short Wave League and World Radio, of London, England.
- 28. To the Philatelic Society of Costa Rica, San Jose.
- 29. To the American Radio Relay League and QST.
- 30. To the Radio Manufacturer's Association of the United States.
- 31. To radio station WGY at Schenectady, N. Y.

Station News

Station WIND, Gary, Ind., has received special experimental authority to transmit facsimile on its regular frequency of 560 kcs, with one kilowatt, from midnight until 6 am, EST.

In Portland, Ore., station KGW has special permission to broadcast facsimile, from midnight until 6 am, PST, on 620 kcs with one kilowatt.

The commission canceled its former order which denied a construction permit to Paul R. Heitmeyer, and, in conformity with a mandate of the United States Court of Appeals, reopened the proceedings for further consideration. The application is for a construction permit for a new station for Cheyenne, Wyo., to transmit on 1210 kcs. with 100 watts nights, 250 watts days, unlimited time.

The FCC Examiners have recommended that construction permits be granted to the following applicants:

Cumberland Broadcasting Co. of Fayetteville, N. C., for new station

Special Frequency Checks

HE Commercial Radio Equipment Co. of Kansas City, Mo., makes special frequency measurements for a number of radio stations which are not checked on the regular government tests.

By courtesy of Herbert Steinmetz, Engineer in Charge of Frequency Measurements, we present herewith a complete, revised schedule of stations serviced on after-midnight monitoring schedules.

The time shown in this tabulation is all a.m., in Eastern Standard.

F	requen-	<u>-</u>
Station	сy	Location Schedule
KTSA	550	San Antonio, Tex. 1st Mon. of the month, 1-1:15.
WPAY	1370	Portsmouth Ohio
WRR	1280	Dallas, Tex
KLAH	121 0	Carlsbad, N. Mex1st Tues., 4-4:30.
KAND	1310	Corsicana, Tex 1st Tues, 4-5.
KWOS	1310	Jefferson City, Mo1st Wed., 2-2:30.
KWBG	1420	Hutchinson Kans
KNOW	1500	Austin, Texas
WACO	1420	Waco, Texas
KIUN	1420	Pecos, Texas
KAWM	1500	Gallup, N. Mex Every Thurs. except the 2nd of month, 4-5.
KEUB	1420	Price, Utah
KGFI	1500	Brownsville, Tex 1st Sat., 2-2:30.
KSAL	1500	Salina, Kans
KTEM	$\frac{1370}{1370}$	New Albany, IndOn the 6th of every month, 3:30-4.
WGRC KVGB	1370	Great Bend, Kans On the 7th of every month, 3-3:30.
WPAD	1420	Paducah, Ky
WHEF	1500	Kosciusko, Miss2nd Tues., 2:30-3.
WJAG	1060	Norfolk, Nebr
KPOF	880	Denver, Colo
WCAZ	1070	Carthage III
KGFW	1310	Kearney Nehr On the 15th and 29th of every month, 2-2:30.
WLAP	1420	Lexington, Ky Last Fri. of the month, 2-2:30.
KADA	1200	Ada, Okla
KBIX	1500	Muskogee, Okla4th Sat., 5-5:15.
WBBZ	1200	Ponca City, Okla. On the 29th of every month, 6-6:30.
WSUI	880	Iowa City, Iowa On the Wed. morning preceding the 1st
		Sat. of every month, 1:30-2:30.

to operate on 1340 kcs, 250 watts, daytime only.

Thomas J. Watson, Endicott, N. Y., new station to use 1240 kcs with 100 watts.

Hampden-Hampshire Corp., Holyoke, Mass., new station to work on 1240 kes, 500 watts nights, 1 kw days, unlimited time.

Sam Houston Broadcasting Association, Huntsville, Texas, a new station to use 1500 kcs, 100 watts days.

Martin R. O'Brien, Aurora, Ill., a new station to use 1250 kcs, 250 watts days.

Carl Latenser, Atchison, Kans., new station for 1240 kcs, 100 watts days.

Floyd A. Parton, San Jose, Calif., to use 1170 kcs, 250 watts days.

The SWL Trading Post

Names and addresses are printed in this column only on receipt of a written promise that every letter will be answered. If an exchange of SWL cards is desired, the request must be made on the writer's own SWL card.

J. I. Vaught, Box 1424, New Orleans, La. (SWL cards).

Phillip Wharton, Box 413, Waterford, Ont. (Correspondence from West Indies and Mexico).

Kenneth Munn, 419 W. Granite, Albuquerque, N. Mex. (Correspondence).

Stanley B. La Rue, 309 S. Bedford Drive, Beverly Hills, Calif. (SWL cards).

The Monthly DX FORUM

• • By CARLETON LORD

F ALL the divisions in a wellorganized radio club, the Courtesy Programs Committee stands in a unique position. Although entrusted with the important task of satisfying the fundamental needs of the average DXer, the CPC periodically is the target for an avalanche of neatly-tossed brickbats.

A few years ago, CPCommitteemen were enjoying boom times. Virtually every request for a special program was granted, and many stations responded with a whole series covering an entire winter. Some of the larger clubs were obliged to devote a full page of each bulletin to list the weekly DX Calendar, and it was not unusual for a club to boast of from five hundred to a thousand programs in a winter season.

But while CPCers dished up specials like the proverbial hotcakes and club officials basked in the sunshine of all this publicity, even then an occasional scallion floated CPCward. It was pointed out that committeemen, in a mad race for club prestige, were forgetting the prime purpose for their activity—that of enabling a DXer to log and verify a needed broadcaster.

Instead of concentrating on a diversified line-up of seldom-heard stations, the clubs appeared to be engaged in a wild scramble to see which CPC could line up the most programs from September to May of a given year—and the committee which scheduled a thousand programs apparently was more efficient than one which could claim but five hundred.

While it was most complimentary for a station to dedicate a broadcast to a group of DXers, it was ques-



Ray Heatherton, popular baritone of stage and radio, sings the hit tunes that bring back memories, on the "Among Your Souvenirs" program heard over the CBS network on Mondays at 7:30 pm EDST. This is a new all-request program featuring the orchestra of Freddie Rich.

tioned whether there was a need to have the program repeated every few weeks during the months. It was pointed out that, with few exceptions, the average DXer would require no more than one or two cracks at any given station-provided, of course that he really wanted to add another verie to his collection. Therefore, it was asked, why expect a station to continue its dedications throughout the DX season?

Besides taxing the facilities of the stations concerned, the DXer was obliged to carry a heavy burden. By all rules of the game, the members of each club were expected to report on every program dedicated

to that club, and thank-you cards were in order when veries were not required. It seemed to be asking a good deal of a listener to ask him to send off five hundred or more reports merely to uphold the honor of his club, and yet there was little else he could do under the circumstances.

Thus it was suggested that clubs put a little more stress on *Quality* and forget about *Quantity*. Let the primary objective of a CPC be to provide programs which DXers needed for verification purposes, and go easy on the idea of repeated dedications from the same stations.

Specials Decrease

More recently CPC activities have slackened off. Whether as the result of past criticism or for other reasons, the radio clubs are listing fewer dedicatory programs than at any time in the past six or seven years. The current season will probably hit a new low in the total number of broadcasts scheduled by the various organizations.

Perhaps CPCers are finding it increasingly difficult to persuade stations to come back on the air after midnight for a special program. It is not unlikely that many broadcasters have become discouraged by the poor response to previous specials, while others glance at the line-up of all-nighters and decide that it is impossible to get out to an appreciable audience.

It is possible that some committeemen have come to realize the evils of too many programs and are going slow in their efforts to arrange specials. It is also likely that present-day CPC's lack the energetic program-arrangers of a few years ago, with the result that the decreasing array of dedicatory broadcasts may be attributed to lack of efficiency on the part of the committee itself.

Whatever the reason—and it may well be a combination of all these

factors—there is no doubt but what courtesy programs have suffered during the past season. And although the defense in *Quantity* might well be applauded, there has been a corresponding decline in *Quality*—and that isn't so good for DXing.

Quality Suffers

"The DX game has been hurt by the CPC muddle of the past three years," points out J. W. DeRosa, 1721 Frederick St., East St. Louis, Ill. "I am amused by the constant bickering about the dedication of a program to a certain DX club. The Plumfp DX Club will secure dedications from twenty stations which are on for the monthly FCC frequency checks, and then they will rave on end about this feat. Is this the idea of courtesy programs?

"When I was on this committee for the NNRC, it was our aim to secure programs from stations which usually were not found testing after midnight. We thought of the members who lacked certain stations and whose logs would benefit from an opportunity to hear a Securing dedispecial broadcast. cations from stations which are on every month is no feat, nor is it beneficial to anyone in particular.

"Here is an example of what I think should be the idea behind courtesy programs work. HIX in Santo Domingo had never been on the air after 10 p.m. in its entire history. Its New York agent wanted sixty dollars an hour for a DX program. NNRC said a DX from them was out of the question. There is no such word in my vocabulary. By diplomatic measure, I secured a two-hour DX program from HIX gratis. This was the first time they had ever been on the air after midnight, the first time they had broadcast to a North American audience. I could go on indefinitely about the rare stations, both in the West Indies and in the United States, which I sold on the idea of DX programs when all DX clubs said it was impossible!

"Some say that in the 'old days' were more responsive. Take the case of WSPR at Springfield, Mass. They operate on 1140 kcs. daytime, so, what with KVOO and WAPI, their signals never reached the Middle West. They monitored on their regular schedule, so they have no frequency Yet they never broadcast a dedicatory program. Two months ago I wrote their president, Quincy Brackett, and received a courteous reply, although a DX broadcast was out of the question due to conditions beyond their control. spirit of DX was there, but other factors were a handicap. Not to be discouraged, I again wrote Brackett, outlining many details which I thought would gain my objective—a DX program. A month later their Chief Engineer wrote that they would be glad to DX for Middle Western listeners, and asked my advice on hours and dates. me, that proves conclusively that DX-minded stations are approached in the right manner."

Readers Report

Despite static, all-nighters and interference, Radexers continue to reach out and drag in varied assortments of new stations. Old Man Winter appears to have been kind to those who patrol the midnight air lanes, for the reports of the past few months have been as complete and as enthusiastic as any in past seasons.

"Despite the heavy QRN," reports Stanley LaRue, 309 S. Bedford Dr., Beverly Hills, Calif., "I have had some very surprising results in the past week. A few of the TP's have been coming through with unbelievable volume. 3YA has shown a QSA4-R8 signal, while my best catch

is the Australian 6GF on 720 kcs.

"Just this morning I had a run of Japanese stations between 5 and 6 a.m., EST. My results were JOIK, 815 kcys., QSA5-R8; JOHK, 770 kcys., QSA4-R5; JOK1, 590 kcys., QSA5-R6; JOAK2, 870 kcys., QSA5-R8; and JOBK1, 690 kcys, QSA4-R5. Shortly before 6 a.m., EST, I was listening on 850, beside XERA, and was very surprised to hear XLIQ in Hangchow, China. This was during a fade on XERA and XLIQ pushed through for about ten minutes before they faded out and XERA faded in."

"The Aussies and Zedders have been coming through very well for quite some time," advises Hilding Gustafson, 2228 Sixth St., Rockford, Ill. "1YA is heard here nearly every morning and at times their signals reach a peak of QSA5-R8. best among the Zedders are 4YA. 2YA, and 2ZB. 3ZB on 1430 is also good at times and seems to be better than 3YA, although of less power. 2NR is without a doubt the best of the Aussies. They really come through with a sock. Almost as good are 4QN, 3WV, 2BL and sometimes 2CR.

"My best catch so far this last month was 2BE, using only 100 watts. My best verified Aussies are 4MK, 4TO, 3UZ, 3KZ, 2KO, 2HD and 2KY. Altogether I have heard 34 stations from down under, and have veries from 23 Aussies and four Zedders. Of the eight stations in Sydney, Australia, I have verified seven and hope to land the other this Spring.

"Of the TA's I have verified an even dozen, the best being EAJ15 which was heard and verified at 4 p.m. Of the TA's verified, five are in France, two in Spain, two in Germany, and one each in Portugal, Italy and Northern Ireland.

"My best verified SA's are CB138, PRE8 and PRF3. I use a Grunow

11-tube receiver and am well satisfied with it."

With a foreign log like that, a DXer would be pretty hard to please if he wasn't well satisfied with his receiver.

"Since I started to DX on my 4-tube Lafayette receiver on October 2nd, 1936," greets Warren E. Winkley, Hughson, Calif., "I have logged 457 stations in the United States, Alaska, Puerto Rico and Hawaii. On the Pacific Slope, I have heard 112 of the 121 stations in existence, 120 of the 140 in the West Central region, 127 of the 194 in the Middle West, and 58 of the 169 along the Atlantic Seaboard. Thus my total of 457 represents 63.6% of the 724 stations in this country."

"I am now using a 5-tube Silvertone for broadcast band reception," supplies Jack Welsh, Kingston, Ill. "It is nine inches long, seven inches high, and five inches wide. With a 60-foot single-wire antenna, I have been able to hear such stations as KGB, KIRO, XEMO, XELO, WNEL, KWYO, KRGV, WPRO, KLZ, KFKA, WSPR and WTAW. Think this is pretty good on such a small set."

Reception Fine

"Just a few lines to let you know of the wonderful results I have been having since last October," writes Raymond W. Sahlbach, 4708-A S. Compton St., St. Louis, Mo. mencing with the frequency checks of that month, I have been busy verifying every station I could hear. At present, the verified list stands at the 300 mark, including Hawaii and Reports are out to Puerto Rico. 1YA, LR1 and HJ3ABE right now and, believe it or not, those three are the first foreign BCB stations I have heard in nine years of DXing! All states are represented in my log by at least one verified station, with the exception of Maine, Nevada and Delaware. Nevada will be eliminated from that group when and if they verify my report of November 27th. My receiver is an 8-tube Zenith Model S-154 and I use a 60-foot Zenith doublet antenna, directional SE by NW."

"Last September I bought a 4-tube General Electric receiver," relates Lloyd G. Neily, Aylesford, N. S., "and to date I have logged 121 stations. In January I decided to verify my catches, and since then have reported to 46 stations, of which 23 have verified. They include stations in Cuba and Mexico as well as the United States and Canada.

"A couple of weeks ago a Halifax paper announced that VAS, Glace Bay, N. S., would soon become a member of the Canadian Broadcasting Corp. They are now constructing new studios. The C.B.C. is now building a new 50-KW station here in the Maritimes and expect to have it completed this year."

"I started off with the bite of the DX bug in September of 1936," admits Ed. Hirsch, 188-01 Locust Ave., St. Albans, L. I., N. Y., "and I can't seem to shake it off. At present I have a log of some 420 stations, but only a meager bunch of 235 verifications. My best catches with most of them verified, are CHNC, CFCY, ZNS, HAT4, KGU, KWSC, KXYZ, WNAX, KGGM, KOB, KOH, KFVS. KGLO, KBTM and KOY. Heard but not verified are KOL, CFAC, KFPY, XEWW and KYA. My receiver is 1936 Monarch and I wouldn't change it for anything!"

Answers S.O.S.

"In a recent issue Alfred Razzando, Fayette City, Pa., asks about a station on 1100 kcys.," declares Clifford Drain, 617 Camden St., Parkersburg, W. Va. "Well, that is definitely XEL, Mexico City. Have also heard XEDF, XEBG and XEBX announcing on 810, so he can take his pick of them.

"After reporting to XEN, Mexico City, for three or four years, I finally received a verie. They claim that they want reports now, so the boys may feel safe to write to them. During recent early morning hours, XELZ, Mexico City, has been heard on 1370 kcys. Down on 1080 I have heard HJ1ABB, Barranquilla, Colombia, on two consecutive Sunday mornings. The station announced in English occasionally. Another Colombian station has been heard on 1390 kcys., but I haven't been able to get their call or location."

Another answer to an S.O.S. comes from E. Leisering, Jr., 782 E. 32nd St., Brooklyn, N. Y., who writes: "Lewis Hill asked in the March RADEX about a South American heard on 1220 kcys. While I wasn't DXing on the morning of December 21st, I have heard PRA9, Rio de Janeiro, several times on that frequency. That's probably his station. Robert Handforth writes that he has heard stations in all but six states. I am wondering if he's heard New Mexico, as that is the only one which I haven't been able to hit. Possibly some one can give me a tip on when to listen for KOB."

"Station WOMI, Owensboro, Ky., is now operating on 1500 kcys with 100 watts night and 250 watts day power," relates William T. Hiad, 1315 Hathaway St., that city. "It is a local station, not affiliated with any network."

Station Schedules

"Station WRVA operates week-days from 7 a.m. to midnight except Fridays, when they stay on until 2 a.m., EST," contributes James R. Fitzgerald, Jr., RFD 4, Richmond, Va. "The Sunday schedule is from 8 a.m. to midnight. They have been recommended by the FCC examiner for a boost in power to 50 kilowatts. WMBG operates weekdays from 7 a.m. to midnight and on Sundays signs on an hour later. WRNL is on from 6:30 a.m. to local sunset, although an FCC examiner has rec-

ommended unlimited time and 1000 watts power. WTRD operates weekdays from 7 a.m. to 1 a.m. and on Sundays from 8 a.m. to midnight."

"Station WBRK, Pittsfield, Mass., 1310 kcys., came on the air for the first time at 11 a.m. on February 20th," reports Gilbert L. Harris, North Adams, Mass. "Their regular schedule is now 7 a.m. to 1 a.m. Harold Thomas is the owner and operator."

"The Milwaukee Journal station, WTMJ, signs off at 1:30 a.m., EST, daily except Saturday, when it is on until 4 a.m.," postcards Harry Stackhouse, 36 E. Main St., Penn's Grove, N. J. "They are trying to get an increase of night power to 5 KW and the Secretary of the FCC advises me that the application has been designated for hearing."

"WBAX is now on full time," supplies Henry J. Leinbach, Jr., 40 W. Main St., Nanticoke, Pa. "As a very complete surprise, at least to me, they have joined the Mutual Network. At present I am using an old 1928 8-tube Stewart-Warner receiver. Since November 15, 1937, I have heard 322 stations, mostly through the aid of FCC tests. I hope to get about a hundred more on the frequency checks."

"I see you have Owen Sound listed for a new station on 1370 kcys.," notes Clarence Wakefield, Wiarton, Ont. "I live only 20 miles from there. They are not on the air at the present time and I don't know anything about them."

Station Changes

"A number of changes have taken place down in Mexico," advises Bill Cunningham, 528 N. Marengo Ave., Pasadena, Calif. "New stations are XEAI, Mexico City, 1250 kcys., 500 watts; XEAZ, Zacatecas, Zac., 1230 kcys., 200 watts; XEBP, Durango, Dgo., 1150 kcys., 250 watts; XEBU, Chihuahua, Chih., 1200 kcys., 50 watts; XEFM, Leon, Gto., 1160

kcys., 20 watts; XEFQ, Cananea, Son., 1010 keys., 50 watts; XEME, Merida, Yuc., 1249 kcys., 50 watts; and XEXX, Mexico City, on 1170 keys., 1000 watts. Other changes find XEXS, Mexico City, on 1310 with 100 watts, XEYO on 610 kcvs.. XEXE in Texcoco instead of Mexico City, XEXB with 250 watts, XEBS and XEAP on 1340 keys., XEAS with 100 watts, XEPN with 50 KW, XERA with 180 KW, and XENT with 50 KW. Not included in the latest government list and probably deleted are XEAD, XEAY, XEBJ, XEFJ and XEXC."

"A number of changes continue to keep the broadcast band interesting," observes Alan I. Breen, 68 Pine Hill Terrace, Dunedin, N. Z. this country, the only change found 2ZR becoming a unit of the National Broadcasting Service and changing call to 2YN. Its frequency remains the same, 920 kcys. Over in Australia, there have been a number of frequency changes. 2AD. Armidale, changed from 1080 to 1130; 2KA, Katoomba, from 1160 to 780; 4BU, Bundaberg, from 1480 to 1330; 4RO, Rockhampton, from 1330 to 1080; 4MK, Mackay, from 1080 to 1390; and 4TP, Townsville, from 1160 to 780. The second National station at Brisbane, 4QR, came on the air on January 7th, using 940 keys, and 500 watts power. Reception of 3ZR, Greymouth, has suffered considerably here in Dunedin. FFZ, Shanghai, on 1440 kcys. seems to have increased its power quite a bit. opening at 7:30 a.m., EST, is heard very well."

Planning a DX Corner

While nearly every DXer would like to have a room or even a corner where he can give undivided attention to his dialing, few of us are able to boast of more than a chair in front of the family radio. Too often wives and mothers are unable to sympathize with plans which will

turn a presentable living room into a DXer's paradise.

The chances are that most of us have been influenced by pictures of the nooks and corners which the amateurs are proud to call their "shacks." We see the impressive arrays of panels and racks, the professional-looking receivers and transmitters, the displays of cards from fellow-amateurs around the world—and we start to visualize what we could do with a DX corner of our own.

We picture a small room up in the attic or down in the basement. In one corner we put the receiver or, if more ambitious, we plan a table on which in all their glory will rest a battery of communications mod-There probably will be a desk from which reports will be sent out to a great many stations all over Distributed about the the world. room will be many comfortable chairs. The floor will be covered with the kind of a rug which absorbs cigarette ashes. The walls will be covered with the better verifications. And on the door will be a "No Admittance" sign-and woe to the unsympathetic female who dares invade this sanctum sanctorum.

But with things being as they are with most of us, the chances are that these dreams will be our closest approach to this bit of paradise. Even if we are lucky enough to have a second receiver which wasn't appropriated by the rest of the family, it probably wouldn't be any good for DX reception. And if by some freak of fortune the extra radio did know what to do with a weak signal, we wouldn't have a place to put it. Which automatically would write finis to the dream of the DX Corner.

One exception to prove this rule is George Nahas, 147 Seeley St., Brooklyn, N. Y., who is our idea of a mighty fortunate fellow.



Bobby Breen and Deanna Durbin, two of Eddie Cantor's brilliant young stars, seem to be amused with the lyrics of a new song during their rehearsal. They are heard with Cantor on a new series, heard currently on Mondays at 7:30 and 10:30 pm EDST on the CBS.

"I have just commenced," he writes, "to make a listening post which will be a honey! It will contain everything that DXers usually dream about. There will be three super receivers—one short wave set, one all-wave set, and a straight broadcast band receiver. I am planning a central mass antenna control, which will give me a choice of at least six different aerials. arate panels on the wall will be mounted with my prize cards and letters from short wave and broadcast band stations. The listening post will be completed by next September (I hope) and will cost approximately five hundred dollars."

What Is a Verie?

"Last December," relates Harold G. Graeme (no address given), "I purchased a new radio and became interested in DXing and collecting veries. At the time I knew nothing

about either of these, and according to things I have read, do not know much more now.

"For instance, in the February RADEX Carroll H. Weyrich said that he started to monitor Daventry because they refused to verify. What does he or anyone else consider a verie from Daventry? Recently I sent them a report and received a card which read:

"The British Broadcasting Corporation acknowledges with many thanks receipt of your report on reception of the transmissions from the Empire Broadcasting Station, Broadcasting House, London.

"Maybe I am wrong, but I consider this a verification from Daventry. Do you?"

It is likely that most DXers will agree that BBC's Daventry card is not a verification, isn't intended to be one, isn't generally accepted as such.

In the lingo of the DXer, a verie is a statement to the effect that a listener actually heard a given station at a certain time. It is issued when a listener's report has been checked with a log of what was broadcast. It confirms that the report is correct, thus verifies the reception. Nominally the report is checked by a station employee with the station's own record, although advocates of the monitoring services contend that another listener is competent to compare a report with his own log.

But regardless of the source of the verie, the card or letter should state definitely that reception is verified, that the report is correct, that the report coincides with the station log, or otherwise confirm reception. Without these or other phrases of similar meaning, no card or letter may be accepted as a real verification.

It is true that, in lieu of official Daventry veries, some DXers are accepting the BBC cards of acknowledgment as confirmations. It is also

true that these cards are sent out to anybody who reports reception, regardless of whether program details are given.

Some veries from stations are good, some are bad, but the Daventry card as issued by the BBC can hardly be classified as any kind of a verie, must of necessity be considered as just another card for a heterogeneous collection of souvenirs.

A Good Verie

An idea of what may be classed as a *good verie* is submitted by E. M. Vickers, Box 121, Coral Gables, Fla., who writes:

"During the past month I received a verie which means much to me, since I really earned it. Early this year I wrote one of the Eastern 50kilowatters for a verification, and in due course one of their mimeographed 'stock' cards arrived. few days later, their Technical Supervisor wrote me about an interference problem with some foreign station on their frequency. He asked me to listen in and report to them if I was able to identify the offending station. They seemed to think it was a Cuban. So I checked their frequency for some time, sent them a report on what I heard. As an afterthought, I asked if I might have a verification typed on one of their letterheads. Last week along came their acknowledgment of my report and the desired verie. Naturally I am going to prize that one highly."

As Count de Veries remarked a few issues back, incidents such as this make the collecting of veries a most enjoyable part of DXing. Not always do the best catches or the most distant stations provide the most prized veries.

"Conditions on the broadcast band have been fairly good here," announces John J. Oskay, RFD 1, Box 85-V, Piscatawaytown, New Brunswick, N. J., "although I have experienced some freakish reception. tween February 20th and 23rd found West Coast stations coming in the best in recent years. Little KWJJ pushed through at R7 and the big 50-KW stations were R9. KGU and KGMB showed excellent signals. From Down Under, 1YA, 2YA, 4YA, and 3GI were heard most any morn-As early as 8 p.m., EST, on February 22nd, the West Coast was pounding in. KOA was R7. KNX R6. KFI R4 and KSL R7. And from the practically every station shown in that special list in the March RADEX could be heard. CMBC was coming in at R6, while WRC was not heard at all. On 1110, CMCJ was heard R7 and there wasn't a trace of WRVA. And during the daytime, WCSH rides over the local WAAT at 3 p.m., showing an R6 against the R3 of the latter. Some fun. eh?"

Heh! Heh! Heh!

I'm glad someone else thought the episode was funny." Brinkley chuckles John T. Crabtree, 203 Santa Fe Ave., Santa Fe, N. M. "I thought it was one of the richest ever, and I'm just kid enough to relish anything I can get on that old boy! Thanks for mentioning 'The Broken Record,' and in return I'll give you a continuity slip which I think is a honey. One of the stock quotations on the Manhattan Merry-Go-Round program is this line: 'During the past few years, thousands of people have turned to powder.' That has been pulled so often that I'm surprised that someone hasn't mentioned it before."

"While reading the February RADEX," writes Harry Stackhouse, M. V. Hauraki, c/o Wm. Diamond, Terminal Island, Calif., "I noticed a reference to ZJV, Suva, Fiji. I used to live there and regularly visit the islands every trip. ZJV operates on 920 kcys., although it some-

(Please turn to page 35)

Solving RADIO'S Many Problems

 \bullet \bullet \bullet By B. FRANCIS DASHIELL

Jown a Midwest radio and would like to know if this speaker could be used with the 1938 18 and 20-tube sets; also, if I can connect it to my 11-tube Halicrafter radio—a Super-Sky-Rider. What is the technical difference between the Dynamic, Permanent Magnet, and Electro-dynamic types of loud speakers?

The speaker used by Midwest is a dynamic speaker and cannot well be adapted to some other radio set unless that receiver utilizes the same number and type output tubes and has the same resistances and voltages. It is difficult, therefore, to match up one speaker with some other set, and we do not so recommend.

Loud speakers are of two general types—the magnetic and the electro-dynamic, or the dynamic as it is widely designated. The magnetic type consists of a fixed permanent horseshoe-shaped steel magnet of excellent lasting qualities. The dynamic loud speaker has a similar magnet, but is of the electro type since its magnetic strength is derived from the current that flows in the coils around the soft iron core.

In the magnetic type the magnet is stationary, but the cone or diaphragm is moved by a pivoted armature that is actuated by the variations in the magnetic field created by a coil of fine wire wrapped around the pole pieces in the same manner as a telephone receiver. The magnetic type of speaker is used largely in battery operated sets where low output current only is available.

The dynamic or electro dynamic speaker has a powerful field mag-

net that is created by a heavy current that flows through its field coil. Often this field coil is utilized as a choke coil for the power filter unit, and this is why one speaker seldom can be fitted into the circuit from a different type of receiver. speaker, because of this great strength, reproduces tones very nicely and with intense volume. The actual sound is created by the cone that is actuated by a fine coil of wire suspended between the magnetic poles. Currents flowing through this coil from the output of the set, that is, from the transformer, cause the coil to change its position, and, therefore, vibrate in unison with variations of audio cur-This coil is called the voice coil. Such speakers are used on a. c. or all electric sets.

There is still another speaker called the permanent magnet dynamic type. It is similar to the dynamic speaker, described in the paragraph above, for it has a voice coil, but the magnet is a permanent steel magnet like the one used in the magnetic type of loud speaker. The fact it has a voice coil permits it to have nicer tone, and therefore, the speaker is used in small a.c. and automobile loud speakers. Its troubles may be the same as any large dynamic speaker, as far as its voice coil and suspension arrangement are concerned, but, in addition, the strength of the permanent field magnet may become weakened and ruin the speaker.

Loud speakers, as a rule, may be easily repaired when they become defective. If a speaker is in trouble your serviceman can substitute a universal speaker that can be made to match any radio set for the test

period. When a speaker fails to operate it may be due to a loose or broken connection from the power unit to the field magnet or from the output tube and transformer to the voice coil. Then, too, a broken wire in the windings will render the speaker inoperative. If a screwdriver, when held close to the magnet poles, pulls and vibrates rapidly, that is proof that the magnet and field coil operate as they should. Most speaker trouble is due to distortion and rattle. This is due to the voice coil not being centered properly. Hum that comes speakers is due to poor filtering in the power unit or trouble in the voice coil. Most speakers have this hum reducing element built in. But it usually will be found, in the dvnamic speaker, that the voice coil will be off center and rubbing on one of the poles. Or one of the wires (flexible) to this coil is scraping or dragging. If the cone has warped or broken open at its seam, it will not center and the coil will rub or chatter. In any event the coil must be recentered in the pole gap. Often it is better to procure a new cone and voice coil assembly than to attempt repairs to the old one.

Wave Traps

Could you please explain to me how a wave trap operates and how I might make one or purchase a ready-made kit? I have an 8-tube Majestic, model 50, and I feel that a wave trap may help at the points where the set is not sufficiently selective.

The Majestic model 50 has had a very good record for sensitivity and selectivity. Sometimes the r-f and oscillator circuits need aligning and adjusting. New tubes, when required, are a great help. But trouble from nearby amateur, cw, and commercial broadcasting stations, in the form of interference, will appear.

Wave traps are designed to eliminate this form of interference. A wave trap usually consists of a completely shielded coil or resonant circuit that is connected in series with the antenna. It is possible to insert two or more traps, of different degrees of r-f resistance or impedance, so as to eliminate interference from more than one station. The wave trap has a small variable condenser connected across its ends. and by this means it is possible to tune the circuit against the interfering signal. Then, if there is still another station interfering, a second tuning of the condenser will eliminate it. The size of the coil depends upon the wave length of the interfering station.

Traps may be purchased as cheaply as they can be made, and are much more effective since they are well shielded and built compactly. Iron cores usually are used and adjustment is simple. The Miller trap, for instance, can be tuned with a tiny knob on top so that the interfering signal will be at a minimum. Their dual trap has two tuning adjustments and is very selective. This trap may be used with either a single-wire or a doublet type of antenna. A number of good traps may purchased from the radio supply houses, and all are equally reliable.

Knight Receiver

I have a Knight 8-tube set, and I am wondering whether it is good enough for DXing. Perhaps I should have a pre-selector to go with it so as to get greater distances. What do you think of this idea, and do the distributors of the set also have these pre-selectors?

The Knight 8-tube receiver is a very good type of set and should bring in distant stations with ease. However, the fact that a set is excellent for DXing means that it must have a sufficient number of

tubes together with good selectivity and sensitivity. A set with 12 tubes will do more DXing than a set with 6 or 8 tubes as a rule, although frequently the larger set provides more volume and better tone but little more in the way of signal amplification or r-f sensitivity. We think that an 8-tube set will do very well if carefully handled at times when distant signals can be received.

A pre-selector is of value, of course, for it provides more r-f amplification and, therefore, will amplify weak signals from the antenna before they are passed into The the radio receiver. Radio Co., from which you purchased the Knight radio advises that they carry a line of several preselectors and kits, some of them being inexpensive. These units can be attached to the Knight radio receivers and will cover the broadcast or the short-wave bands.

Double Reception

I have a Croydon 5-tube set which brings in code right on top of the short wave stations and makes reception very difficult. The short wave stations that come on the 49 meter band repeat at 5100 kcs; also, the same is true with the 75 meter band. The amateurs seem to repeat again at 3000 kcs. I have noticed the same trouble on the broadcast band, but it is not very bad there. I had the set tuned by a local service man. He checked the r-f circuit, but the set does the same thing again.

First, the fact that you hear code mixed in with the voice signals on the short wave does not indicate that there is some trouble. Code and phone signals are squeezed in all over the short-wave spectrum, but usually grouped in individual types of signals. For instance, you have a short-wave amateur band, and then at either side of it you will find code signals. Often, how-

ever, some code signals will spill over into a phone band. On the other hand, code may be due to repeat signals at several points on different harmonics.

Double reception occurs especially strong signals enter the r-f circuit of a receiver and set up some form of combination between the signal frequency and the i-f of the set. About the only solution is have the receiver carefully aligned and tuned so that unwanted signals cannot enter the r-f circuit. If the fault is due to the receiver and cannot well be corrected, we suggest the use of one or more good wave traps. The April, 1938, issue RADEX, explained at length image frequency and how to cure it. Your attention is referred to this answer in that issue.

Ancient Receiver

I have a one-tube Unico battery set that uses a 199 type tube. Can you tell me what battery to use with this set, and can I make a shortwave receiver out of it?

We regret that a circuit of this set is not available to us. Because of this, we cannot tell you exactly how to convert it for short waves, but usually if a portion of the winding of the coil is removed, it will permit the set to respond to lower wave lengths. Try removing a few turns from the coil that connects to the grid of the tube, and you will find that the set tunes to lower waves and eventually will get down to the police, aviation and higher wave amateurs. Of course, real waves and DXing, will be out of the question.

The set uses a type 199 dry-cell tube which requires 3.0 volts on the filament and consumes 0.06 amperes an hour. A maximum of 90 volts is used on the plate with the headphones or speaker in series. However, a plate voltage of 45 is about the average potential applied on one-tube sets. A 45-volt B battery,

and an A battery composed of two dry cells in series, will be sufficient.

Atwater Kent 60

I have an Atwater Kent 60 receiver, and have wondered if a preselector will help it work better. I have a diagram of a single tube preselector that employs a single 2A7 tube for first detector and oscillator combined. What do you think of this?

The Atwater Kent 60 is an old model that uses eight tubes. Since it already is a tuned-radio-frequency receiver, the use of a single-tube preselector will add still another tube amplification. radio-frequency This will not help the set to an appreciable extent, nor will it improve the selectivity, for a tuned-radiofrequency receiver is very selective. There is no use adding radio-frequency amplification beyond a sensible limit, and your set is sufficiently covered in this respect. We recommend. instead. a careful checking for neutralization alignment and voltages on the tubes. Replace old tubes, condensers and resistors if doubtful. and vou should do almost as well as any new set of equal sensitivity.

Grid Connection

Silvertone is giving some trouble, and when I place a finger gently on the top of each grid cap of the 6K7G and 6L7G tubes I can triple the volume of sound. This makes me feel that I am not getting all the power that I should from this The 6K7G tube will give a noise when the set is playing and the volume will drop. By twisting the cap on this tube the volume will come back again. I use a Silvertone all-wave doublet and a good ground. Do you think this is a good DX set, or is it a simple trouble that can be remedied?

The Silvertone receivers are very good, and any trouble you are experiencing may be due to some

easily remedied defect. This set, if it has more than 6 tubes, should bring in foreign stations and provide much DX entertainment. Less than six tubes in a set is not considered satisfactory as far as sensitivity and good volume and tone are concerned with distant stations in DX work or foreign reception.

When you touch one of the caps on the grid top of a tube you automatically provide an increase in capacity, something that is missing from the normal operation of the set. Touching the grid, if anything, should reduce the volume or cause oscillations noises and tone changes. The fact that the normal capacity of the grid circuit of a tube has become altered to such an extent proves that the tube itself may be defective or some condenser or circuit feeding it has failed. First, try testing the tubes in question. The cap may be loose or the internal wire leading to it broken or disconnected. The external wire to the grid cap connection from one of the grid coils of either the i-f or r-f transformers may be broken or shorted in some way. All these possibilities must be checked. A good serviceman is fitted to do this work quickly and inexpensively, and we suggest that you call upon one. All voltages for the plate, grid bias, screens, etc., of the tubes in question must be carefully checked.

If you wish, however, to have the service experts of the Sears Roebuck Company, from which you purchased this set new, pass an opinion or make the repairs, we suggest you write them at Department 657, 925 South Homan Street, Chicago, Ill., and outline your trouble.

Light Switches

I seem to pick up a lot of static on my Westinghouse WR-23 whenever a light switch is turned on or off. There is a click in the set. It also occurs when the telephone dial is operated. I have an inverted L. antenna, and the ground wire is 12 feet long attached to a water

pipe. Can you help me?

It is natural for any radio to respond to the tiny electric impulses or static sent out whenever an electric switch is turned on or off. The making and breaking of an electric circuit is accompanied by a small spark. This spark is a generator of radio waves—the train being heard as a single click. If the electric wire-one side-is grounded to the water pipe that is also a radio ground, it may be likely that you are receiving the static through this circuit. But, since the radio is operated on the house wiring circuit the impulses are sent out from the switch along the wires and they reach the radio in this way. Also, the waves carry through the air for short distances, and your antenna, leadin, or the wires of the set itself, if not perfectly shielded, pick up the impulses.

In cases like this, the use of a doublet antenna with the twisted, noise-elimination leadin, and a noise filter in the a. c. connection, may prove beneficial. The removal of your ground wire to another point or an outside ground would be in order also. See the April, 1938, issue of RADEX, for an article on grounds and noises of this kind.

Power Line Hum

Can a high line of 33,000 volts be installed so that it will not cause a continuous roar or hum in nearby radio sets? In the past month such a line was erected near me, and all radios have gone bad. My set is a new G. E. 4-band receiver, but the road is so bad on the long waves that reception is impossible day or night. On the short waves it is not so bad, but very objectional. Is there anything I can do to get away from this noise?

Any high tension line is surrounded by an electro-magnetic field. This

is because the wire carries alternating current of very high voltage. This field extends out for some distance, according to the power, and 33,000 volts is sufficient to range far away along two belts paralleling the power line. All radio sets within these belts, on either side of the line, are affected. The noise that is heard, is a humming roar having a frequency equal to the frequency of the current being carried. Also, high-potential leakage over insulators or during wet weather, is very noisy. On wet, dark nights, this discharge can be seen as a blue glow or corona. The direct action of the field, other than the discharge noise, is that of inducing a faint alternating current in adjacent antennas, leadins, radio receivers, ground wires and even the pipes within a house to which the radio is attached.

Since this interference is entering the house by so many paths it is a difficult problem to attack. doublet antenna is used, place it as far back away from the wires as possible, and point it directly toward the power line. A long antenna leadin can be used with doublets, if the doublet is placed far back. The leadin will not pick up noise, so all you will get will come through the top of the antenna. Your local trouble will be in the a. c. line and the ground. It is possible to use a shielded ground wire run direct to an outside ground and not to the water pipes. A noise filter in the a. c. electric line will be beneficial too. The set that you own is a good one and well shielded. and there is nothing more that can be done to it. This form of interference is hard to eliminate, and all of the above suggestions are, therefore, in the nature of experiments. They should, however, lessen the trouble, but we doubt whether it can be eliminated entirely. It is just one of those unfortunate situations.

Ship-Board Radio

I use one of the small A. C.-D. C. radio receivers on board a large ocean-going vessel. I get generator noise and other static. Have tried using filters, but to no avail. Is there any way to stop this nuisance so the radio can be used with pleasure?

Direct current, such as is used on ship-board, is noisy. The generators have commutators and brushes, and all this gives irregularities to the current. And, since the a.c.-d.c. set is small with a simple filtering circuit, the hum and ripple noise is apt to enter and ruin reception. Also, you have d. c. noises from motors and other machines on board. A good noise filter is usually supposed to filter out this noise, and we suggest that a larger one be utilized than has been used. All this, however, runs up the expense of using a small radio.

It occurs to us that perhaps an automobile radio, operated on a storage battery kept charged by the d. c. supply of the ship, might be less noisy. A good antenna, with a noise-eliminating leadin is quite necessary, and if it is a doublet. no ground wire will be needed. The ground, as a rule, on board ship, is noisy. You can use an a. c. receiver, with a converter and this would prevent generator noise from entering directly into the radio. Such units are expensive. As long as you use the a.c.-d.c. set we believe the trouble will exist because of the type of circuit and filtering system used. Reception on ships means that a receiver is placed in compact electrical city where every known form of interference exists. Yet, on the other hand, large receivers operate on the passenger vessels and provide excellent entertainment. These, as a rule, will be found to have satisfactory filtering circuits in the power units.

Change To Battery

I have a Scott a. c. receiver that I would like to change to a battery set so it can be used in summer camp where there is no electricity. Are there any newer tubes that can be substituted for the older so batteries will operate them?

The difficulties in changing an a. c. set to battery operation are many. First, tubes that match the characteristics of those now used in the set must be found. It is impossible exactly to do this. Then, provision for B voltage must be made so all parts receive the proper potential. Of course, if you wish to sacrifice tone, it might be possible to make this change. Type 32S can be used in place of 24As. Different sockets are needed, and the plate and grid potentials must be altered. No cathode connection is used. Or a type 1A4 may be used. In place of the 27s you can use 30s. And in



Eve March is one of radio's youngest newcomers. She came to the NBC microphone via the Kleig lights and cameras of Hollywood a little more than a year ago. She is heard on NBC daytime dramas.

place of the 45s use type 33s. All these are two volt tubes of low am-

perage drain.

The connections to the present transformer must be removed and proper leads arranged to go from plates to the various B battery terminals. Many resistors and present connections must be changed so that the proper potentials are applied to the various tube elements. The power unit of the set must, therefore, be dismantled. The speaker, which is electro-dynamic, must be replaced with a smaller magnetic or permanent magnet type. From the foregoing you can see what a task is involved in making the change, and we have mentioned these things because we feel we ought to discourage you as well as the many of our readers who will write us in a similar vein. While the job can be done as outlined, careful adjusting and tracking of the oscillator circuit must be watched, and, considering everything, study and expense is not worth the effort involved.

Bicycle Radio

I am interested in obtaining a radio for a bicycle and to be installed on the carrier over the rear wheel. Is there any make you can recommend for this purpose?

You have an interesting question and perhaps some of our readers already have solved it-for bicycles or motorcycles. We do not know of any suitable set made for the purpose, but it is possible to install a small auto radio on your bicycle. The main difficulty is the battery, but a small 6-volt storage battery will keep it running for a few days -over a week end, at least. Even four dry cells connected in series will run it a day or so while on a run. A small vertical antenna will be sufficient. Radios of this type have been placed on motor cycles, and many police departments have so equipped their traffic cycles. The problem of battery is, of course, the thing that will give the most concern.

A. V. C. On Clinton

My set is small, but powerful. It is a Clinton 250, and I would like to know if I can install A. V. C. so as to stop the fading. I would like to know the I-F of the set, and what size variable condenser it uses.

There is no type of a. v. c. that we can recommend installing in this set as such additions seldom prove satisfactory. There are many factors to consider when making this change. We do not have this circuit available, but suggest that you write direct to the manufacturer—Clinton Mfg. Co., 1217-19 West Washington Blvd., Chicago, Ill., for the information desired.

Patterson Radio 16

I have a Patterson radio No. 16 that I recently purchased second hand. Where can I procure a circuit diagram? Every time I turn the tone control I get a scratchy noise and the R meter jumps around. There is a knob—R. F. Gain—and I don't know what it is for. Can you help me?

The Patterson Radio Co., 1320 So. Los Angeles St., Los Angeles, Calif., is the maker of your set, and you should be able to get a diagram from them. As to the tone control, we think it defective and in need of replacing. The radio-frequency gain knob, is just what it says. It increases the r-f amplification on weak or distant signals, but is turned down on local and strong signals since it also increases the noise level and static in proportion to the amount of "gain" or amplification in the radio frequency amplification circuit of the receiver.

An FCC Examiner has recommended the grant of construction permits for new stations in Jackson-ville, Ill., and in Charleston, S. C.

Five Years of GERMAN Broadcasting

HIS is Germany calling on DJA." This announcement. with the substitution of different call letters, has become a familiar call to all radio listeners of the world. There is no place on earth, from the glacial fields of Alaska to the sun-drenched shores of Tahiti, where they have not been heard at least once. It is now five years that these announcements, and the programs they introduced, have resounded from corner to corner of the globe. Usually five years do not mean much in the life of a great institution, and normally an anniversary of this sort passes unnoticed, but in the sphere of broadcasting, five years mean a lot. This holds particularly true of shortwave broadcasting, where development progress are still in their prime, and every day may bring something new.

The German shortwave station began its service from Zeesen, a little village in the neighborhood of Berlin, on April 1, 1935. There had been previous shortwave broadcasts from there, but they were experimental only, and quite insufficient to provide a satisfactory service. The old wooden tower and its round antenna are still to be seen as one of the relics of Zeesen.

On April 1st, 1933, directional aerials were introduced at Zeesen, and special programs designed for shortwave listeners only. At first only one aerial, directed to North America, was set into operation, with a daily program of two hours duration. It became an instantaneous success, and subsequently new aerials were installed. The power of the transmitter at this time was only 4 kilowatts, but soon thereafter it was raised to 7 kilowatts.

Directional aerials for Africa were

inaugurated on Feb. 1 of 1934, and on the next day the South American beam was put into use. Feb. 3rd marked the inauguration of the East Asia service on a directional basis.

Two more directional services followed in 1935; on January 1st for South Asia, and on May 1st for Central America.

The increase in power from 7 to 40 kilowatts was made on August 1st, 1936, to better serve the listening world with news of the Olympic Games.

The German station heartily appreciates, and always acknowledges, reports from its listeners. have on file now well over 100,000 letters from their auditors, as well as photographs, souvenirs, and other tokens of friendship sent to them. In return, the station always acknowledges with a card, or sometimes a letter, and frequently they booklets. travel literature, send Christmas cards, phonograph records, and program folios. Their advance program sheets are mailed free of charge to any listener who requests them.

The German stations are operating as we go to press, on the following transmission schedule:

For North America

DJB 1	5200 kcs	Sunday, 12:25		am	to
DJB 1	5200 kcs	4:50 pm	to 10:45	pm	
DJD 1	1770 kcs	4:50 pm	to 10:45	pm	
DJL 1	5110 kcs	8:00 am	to 9:00	am	

For Asia

_	
DJA 9560 kcs 1	2:05 am to 11:00 am
DJB* 15200 kcs 1	12:05 am to 11:00 am
DJE 17760 kcs 1	2:05 am to 5:50 am
DJE 17760 kcs 8	3:10 am to 10:00 am
DJQ 15280 kcs	12:05 am to 5:50 am
DJQ 15280 kcs 8	8:10 am to 10:00 am
DIS 21450 kgs	12:05 am to 11:00 am

For Africa

DJC 6020 kcs 10:40 am to 4:25 pm DJD 11770 kcs 10:40 am to 4:25 pm

DJL 15110 kcs Midnight to 2:00 am DJL 15110 kcs 10:40 am to 4:25 pm DJL 15110 kcs Sundays, 6:00 to 8:00 am

For Central America

DJA 9560 kcs 4:50 pm to 10:45 pm DJR 15340 kcs 8:00 am to 9:00 am DJR 15340 kcs 4:50 pm to 10:45 pm

For South America

DJE 17760 kcs 6:00 am to 8:00 am DJE 17760 kcs Sunday, 1 12:25 pm 11:10 to DJN 9540 kcs 4:50 pm to 10:45 pm DJO 11800 kcs 7:15 pm to 10:50 pm DJQ 15280 kcs 6:00 am to 8:00 am DJQ 15280 kcs Sunday, 11:10 12:25 pm DJQ 15280 kcs 4:50 pm to 10:45 pm

Broadcasting in BULGARIA

• • By Douglas E. Manke

NEW superpower radio station has recently started to broadcast regular programs from Sofia, with 100 kilowatts of power, making its powerful voice heard in all parts of Bulgaria, where highly adverse topographical conditions make reception so difficult.

Broadcasting in Bulgaria started by a small group of fans, who, in 1929, secured authorization to set up a small experimental station. Through donations they were able to secure a tiny studio, were given an ancient transmitter by the Post Office Department, and piece by piece acquired the rest of the necessary equipment, building two 30-meter aerial towers themselves. Transmissions were started in 1929 with 300 watts power, and later raised to 1500 watts.

In 1934 broadcasting became a state monopoly with the Minister of Posts and Communications having administrative control, and the "Institute of Social Reform" exercising political control. Program penses are defrayed by the sale of

a weekly radio magazine, and by contributions from listeners. to the scarcity of funds, program organizers have to rely greatly on phonograph records, and to take commercial announcements. number of Bulgarian listeners is estimated at not more than 12,000, which is about two per cent of the population. Receiving sets are taxed as follows: one tube sets, 200 leva per year; two tubes, 400 leva; three or more tubes, 500 leva. The leva is worth about one and a half cents.

In 1936 two low power transmitters were put into service in Varna on the Black Sea, and in Stara-Zagora, but even these could not cover the whole country. The new station is more advantageously located. It is on a plateau about 60 miles southeast of Sofia. The transmitter, the most modern and powerful in that part of Europe, was built by the German firm of Telefunken.

The Bulgarian radio stations are listed below:

850 kcs., Sofia, 100 kilowatts 1276 kcs., Varna, 2 kilowatts 1402 kcs., Stara-Zagora, watts.

Card Swappers

W ILLIAM C. BUCHANAN sends us a list of Australian and New Zealand radio listeners who wish to exchange SWL cards with fans in this country. RADEX can assume no responsibility, however, for failure of any of these listeners to make an exchange, since we do not have their requests for exchanges in our files.

Australia

F. Dubbo, City Road, Beenleigh, Qsld.

Vincent H. Leonard, 72 Shuldy Park Road, Kenmore E4, Vic.

J. Burke, Lyster St., Coff's Harbor, N.S.W.

B. Hewerdine, Barolin St., Bundaberg, Qsld.

W. Simms, 112 Lincoln St., Perth,

W. A.

N. Churchward, 392 Alice St., Maryborough, Qsld.

C. J. R. Howard, 219 Ellena St., Maryborough, Qsld.

C. J. Wegert, Gladstone, Qsld.

H. G. Rogers, 28 Edward St., N. Geelong, Vic.

A. T. Ashman, "Ebenezer," Napier St., Eaglehawk, Vic.

E. J. Bailey, 709 Macarthur St., Ballarat, Vic.

G. M. Anselme, 16 Hartley St., Rozelle, Sydney, N.S.W.

Mrs. G. M. Anselme, same as above.

J. Mildenhall, Byron Bay, N.S.W.

A. D. Evans, 12 Dudley St., Brighton, S5, Vic.

C. Watts, Poole St., Bowen, Qsld. Lyle Schulte, c/o Miss E. Charter, 14 MacAuley St., Cooparoo SE2, Brisbane, Qsld.

Roy Kennedy, 21 Brown St., Adelaide, S. A.

New Zealand

J. A. Kennedy, Box 101, Greymouth.

N. Mancer, 22 Rangatikei St., Wanganui East.

R. Weir, 41 Islington St., Dunedin, NE1.

C. McClure, 164 Clyde St., Island Bay, Wellington.

J. D. MacLean, 77 Kingsley St., Sydenham, S1, Christchurch.

J. M. Flower, Tauvanga.

C. O. Pepperel, Rahotu, Taranaki.

C. Alsop, Midhurst, Taranaki.

T. Teehan, 6 London St., Dannevirke, Hawkes Bay.

Victor Hugo, Fire Station, Ponsonby Road, Auckland.

L. Oxenham, 6 Glendaver St., Berhampore, Wellington S1.

W. T. Choppen, 4 Marston Road, Timaru. A. MacJennett, 135 Constable St., S1, South Wellington.

Fred Bluett, c/o T. A. Patterson, Kiore, Taranaki.

R. O. Soughton, Martinborough.

C. E. Foote, 24 Muripara Ave., Pt.-Chevalier, Auckland.

J. J. Green, c/o A745 Greenlane Road, Remuera, Se2.

V. Donnely, Pollen St., Thames.

C. Lloyd, 33 Wynward Road, Mt. Eden, C3, Auckland.

A. H. Henson, 116 Roker St., Christchurch, SW1.

A. J. Chapman, 145 Liddell St., Invercargill.

E. G. Stowell, 28 Memorial, Timaru.

Bob J. Wright, Box 33, Martinborough, Wairarapa.

G. K. MacDonald, 52 Bordesley St., Linwood, Christchurch.

J. R. Monson, 7 Hill St., Dunedin.

A. C. Mildenhall, Main Road, Green Island, Otago.

C. O'Connor, Rakaia, Canterbury,

Fred Lanyon, 142 Olliviers Road, Christchurch.

W. D. MacComb, 1 Merani St., Devonport, Auckland.

G. Bogue, 40 Haywood St., Dunedin SW1.

J. Lunn, 67 Fox St., Dunedin, S1.

K. Brown, 732 High St., Lower Hutt, Wellington.

R. T. Neal, 41 Plymouth St., Wanganui.

Bob Russell, Taupo Road, Taumarunui.

J. E. A. Sanderson, 8 Grove St., Mussellburgh, Dunedin.

Reginald Kirk, Makirikiri, Wanganui.

Station OK1MPT, Praha, the original Czechoslovakia s.w. station, has been resumed. It works on 5145 kcs. on Fridays from 4:40 to 5 pm, and on Saturdays from 4:25 to 5:30 pm.

For SHORTWAVE Tuners

Argentina

LSX, the original Argentine experimental station, has returned to the air and is heard testing frequently, in the evenings, on 10350 Two new stations are also heard in parallel with LSX irregularly; LSC on 7940, and LSB on 13950 kcs. (Velasco, RX25 N. Y., RX91 Ohio)

Australia

Reception of Australian stations is picking up, and warm summer mornings should help to increase their strength at least a couple more "R's". VK2ME on 9590 is heard best near 5 am on Sundays. the signal at this time being R4-6 in volume. VK3ME on 9510 is also at its best near 5 am, with R7-8 signals. VLR on 9580 kcs is also heard at R8 strength between 5 and 5:30 am, EST. (RX25 N. Y.)

Belgium

The Brussels station, ORK on 10330 kcs, is heard between 2:45 and 3 pm, at which time news is broadcast in French. The station signs off at 3 o'clock with the Belgian National Anthem, "La Brabaconne."

(RX25 N. Y.)

Brazil

The best Brazilian station at this time, PSH on 10220 kcs, is still coming through but not as well as a few months ago. PSH announces in English, Spanish, German, Portuguese, French and Italian. The call letters are keyed, "Peter-Samuel-Harris." (RX98 Tenn, RX110 Venezuela)

Bulgaria

One has to stay up into the early morning hours to get good reception from Bulgaria, for the best time to tune is from 2 until 5 am, EST, on Sundays. Fine music, beautifully played, makes up the pro-

grams. LZA on 14920 kcs, in Sofia, the station, and the complete schedule is, daily, 5 to 6:30 am, 11:30 am to 3 pm, and on Sundays, 2 am to 5 pm. (RX93 N. Y.)

Cocos Islands

Although in the amateur band, station ZC2OP, in the Cocos Islands, will prove to be a very interesting catch. It is on 14440 kcs, on the high frequency side of the 20-meter band. This station is operated by a group of treasure hunters, and can be identified by the call "ZC2-Oceanic Boat Pedro calling." though powered only with a battery giving 30 watts input to the transmitter, it can be heard almost regulargly nights. (RX93 N. Y.)

There are at least two Cocos Islands. One group is in the Pacific Ocean, and owned by Costa Rica. The other group is in the Indian Andaman Ocean. north of the Islands, off the coast of the Malay Peninsula. The prefix ZC2—is assigned to those islands in the Indian Ocean. It is believed, however, that ZC2OP, is actually located in the Costa Rican possession and the call sign is wrongfully used.

Colombia

Sr. Julio A. Sanchez T., of Santa Marta, states that the correct call letters of his station are HJ1ABJ, "La Voz de Santa Marta." HJ1ABJ transmits on 4760 kcs daily from 11:30 am to 2 pm, and from 5:30 to 10:30 pm, EST. All reports will be acknowledged on receipt of a reply coupon. (RX42 Calif.)

HJ1ABP on 9618 kcs seems to have added more power, because on several mornings their signals were so strong that they caused interference with ZRK on 9606 kcs, resulting in a terrific heterodyne. (RX25

N. Y.)

The war office station HKV, at Bogota, silent for a long time, is reported back on the air. This station transmits on approximately 8700 kcs, near 7 pm on irregular nights. (RX85 Ohio)

Czechoslovakia

The best of the Prague stations at this time is OLR3A on 9550 kcs, although OLR4A on 11840 kcs is very good. OLR3A can be heard on Wednesday afternoons between 4:30 and 4:45 pm, EST, at which time they broadcast news in English. (RX25 N. Y., RX33 Kans.)

France

The new French Colonial station at Essarts can now be heard in any part of the country, judging by reports received. It is heard on 11885 kcs near 6 pm, and also from 7 to 10 am. Reported also on 15100 kcs from 3 to 4 pm, with a news broadcast in English at 3:15, and on 15245 kcs near 4 pm. (RX33 Kans. RX51 Mass., RX91 Ohio, RX101 Mass., RX109 Tex.)

Guatemala

The new broadcaster, TGQA (6440 kcs) at Quezaltenango, operates with 200 watts, and uses the slogan, "La Voz de Quezaltenango." TGQA relays TGA on 1450 kcs, Mondays through Fridays from 9 to 11 pm, on Saturdays from 9 pm to 1 am, and on Sundays from 1 to 3 pm. Reports should be addressed to the Director of Electrical Communications at Guatemala City. Return postage is not necessary. (RX91 Ohio, RX93 N. Y.)

India

The Delhi, India station heard on 9590 is VUD2. This is but one of a new array of transmitters in Delhi. The others, with their frequencies and schedules, follow:

VUD, 6085 kes, daily 10:30 pm to midnight, and 2-4 am, EST.

VUD3, 11870 kcs, not on the air

VUE3, 15160 kcs, not on the air



Jackie Heller, NBC singing "midget of the mike," and his wife, Ruth Greeley, photographer's model and former Earl Carroll stage beauty.

yet. (RX93 N. Y.)

We understand, unofficially, that the frequency 6085 kcs, is available to all the Indian shortwave stations. In addition to Delhi, there are transmitters at Calcutta and Bombay.

For a rare catch, listeners are invited to try for this one. No call letters are known, but the location is Mysore Palace, in Mysore, and it transmits on approximately 6590 kcs. It was heard only once, near 7 am. EST. (RX93 N. Y.)

Indo-China

"Radio Philco," at Saigon, is reported on 6240 kcs from 8:30 to 9:30 am, EST. A listener in Vancouver, B. C., states that it is heard with QSA5 quality. (RX21 Wash.)

Japan

"I have just received my verification from JZJ, Tokyo. From it were learned the following facts concerning Japan's stations. The address is Overseas Section, Nippon Hoso Kyokai (Broadcasting Corporation of Japan), Atagoyama, Shiba-Ku,

Tokyo. The verification is on a four page form. On the first side is a splendid view of the transmitters which send these powerful signals to the United States and the rest of the world. On the second page we have the verification, and a statement that the Corporation will furnish a monthly copy of their forthcoming programs to anyone who fills out and returns the enclosed questionnaire. On page three is the schedule, and page four is printed in Japanese." (RX93 N. Y.)

Telephone stations JVN on 10660 and JVM on 10740 kcs can be heard between 4:45 and 5:15 am, EST. When engaged in telephony, their signal is "wobbulated." (RX25 N. Y., RX91 Ohio)

Jugo Slavia

A card received from the Belgrade shortwave station reads, "We thank you for your report of our broad-This was one of our special broadcasts for Yugoslavs in the U.S.A., which, until the completion of our more powerful transmitter, is also relayed from Berlin, on which wavelength you picked it up. it is, however, quite possible for listeners in the USA to listen in to our programs on our normal wavelength of 49.18 meters or 6100 kilocycles, we shall send you in future our regular illustrated program of transmissions." (RX86 Mass.)

Martinique

Two Martinique stations are on the air. "Radio Martinique" is the better of the two. It is on 9700 kcs, and broadcasts some nights as late as 11 pm. "Radio Fort de France" was off the air for a while, but is now heard again, between 8 and 9 o'clock at night, on 9350 kcs. (Velasco, RX99 N. Y.)

Mexico

The Universidad de Mexico, located at Justo Sierra No. 16, Mexico City, D. F., is on the air with its new 1500 watt Collins transmitter.

on 9600 kcs. The call is XEYU, and when on regular schedule it will relay XEXX, a broadcast band station on 1170 kcs. The schedule of transmissions will be daily from 3:30 to 4:30 pm, and from 8 pm to midnight, EST. It is expected that announcements will be in Spanish, English and French. Reports will be acknowledged for a reply coupon. (Velasco)

XEWI is temporarily off the air because the transmitter is being rebuilt for 400 watts power. (Velasco)

The "bootleg" station on 7090 kcs has left the air, according to our Mexican informant, but he expects it to reappear on some other frequency.

Panama

HP5I on 11895 kcs, at Aguadulce, Panama, signs on and off with the selection "El Tambor de la Alegria." They will verify in return for five cents in unused USA stamps. Their transmission hours are from 7:30 to 9:30 pm, EST. The address is "La Voz del Interior."

Pitcairn Isle

Pitcairn Island, in the south Pacific, is now heard through station VR6AY. This is really an amateur station, transmitting on 14346 kcs. The transmitter was donated to the residents of the island by several American radio manufacturers. When it first went on the air it bore the call letters VR6A, but shortly after the letter "Y" was added. VR6AY operates with a power input of from 60 to 75 watts, and is heard very well in every part of North America, in the early morning hours. This station is reported by several listeners in this month's Amateur Calls Heard column, and also by RX21, Wash., RX22 Ohio, RX57 Ill., RX85 Ohio, RX93 N. Y., and RX112 Pa.

Portugal

There is a new station in Lisbon known as "Radio Renascena." It is

also called "Emisora Catolica Portuguesa," and the address is Rua Cappello 5. Radio Renascena transmits on 5980 kcs with a power of 250 watts, daily from 3 to 5 pm, and on Sundays and Thursdays from 6:30 to 7:30 am.

St. Kitts

The St. Kitts station VP2LO, transmitting on 6380 kcs with 500 watts, is sometimes heard as late as EST. (Velasco, RX52midnight, N. Y.)

Spain

"Radio Malaga," in the 20-meter amateur band, transmits war news in Spanish between 7 and 9 pm, and sometimes even later. The frequency is 14440 kcs. (Velasco)

EAR, now announcing as "The Voice of Republican Spain," broadcasts on 9480 kcs from 7:30 to 8 pm, and from 8:30 to 9 pm. (RX51 Mass., RX100 Ohio, RX105 Ohio)

Sweden

A letter from the Swedish shortwave station includes full information on the three stations they op-The transmitter at Motala uses two frequencies, SBO on 6065 and SBP on 11705 kcs, and the station at Stockholm, SM5SX, employs 15155 kcs. Five hundred watts power is used on all frequencies, but the operators expect to increase the power soon, and to put directional aerials into use. Their programs close with the Swedish national The address to which reanthem. ports should be sent is Telegrafverket Tjanstebrev Nr. 5, Stockholm.

Switzerland

The League of Nations station, HBO on 11402 kcs, now broadcasts on Sundays from 7 to 7:45 pm, EST. This program is for North America. (RX73 Ohio, RX93 N. Y.)

U. S. S. R.

RKI on 7520 kes, Moscow, broadcasts news and music daily from 7 to 9 pm. (RX100 Ohio) The Russian

stations send attractively illustrated magazines to most of those who report to them.

A strange Russian station has been heard on 6035 kcs, and it is not RV59 at Moscow. It broadcasts the same programs as RAN on 9595 and RNE on 12000 kcs, but it announces as "Radio Moscow" in lieu of call letters. (RX37 D. C.)

United States

Hicksville, N. Y., W2XGB at broadcasts on frequencies of 8655 and 17310 kcs, in the afternoons until 5 o'clock, and conducts tests with W9XDH at Elgin, Ill. (RX37 D. C.)

W9XDH at Elgin, Ill., employs the frequency of 12862.5 kcs. address of both these stations is Press Wireless, Inc., Box 296, Hicksville, N. Y. Verifications are printed on a photograph of the station, and they also send a picture of the control room. (RX37 D. C., RX51 Mass., RX73 Ohio, RX101 Mass., RX109 Tex.)

W2XE has made a change in its schedule. It is now broadcasting as follows:

6120 kcs, daily 11 pm to midnight 11830 kcs, daily 6:30 to 11 pm. 15370 kcs, weekdays from 1 to 6

pm, and on Saturdays and Sundays from 2:30 to 6 pm.

21520 kcs, weekdays from 7:30 to 10 am, and on Saturdays and Sundays from 8 to 10 pm.

Some strange stations have been heard, and information concerning them is requested. They are KTGR1, WAMC, WWMA and KTGR2. (RX33 Kans.) WYYA.

Venezuela

The Caracas city police station, YV5PC, works on 2466 kcs, and is owned by the Federal District Government. This station transmits at regular times during the day, as follows:

* 12:30 am to 6:30 am, general calls to all branches of the police department.

6:45 am, reading of the day's program.

7:00 am, unclaimed letters and telegrams.

11:00 am, news.

12:30 pm, general call to all branches.

4:30 pm, news.

6:30 pm, general call to all branches.

Station signals are given every fifteen minutes, and police announcements every half hour. The news broadcasts include news of all the police departments and from the head office. Local events are also broadcast, as well as stories of the activities of the Office of Investigation of the Criminological Section. (RX108 Calif.)

Apex

Cleveland's ultra high frequency broadcasting station is now on the air on Wednesdays, from noon until midnight. It is W8XNT, on 38600 kcs; programs of WHK are relayed. (RX85 Ohio)

Ships

The S. S. Normandie, FNSK, was heard broadcasting a program to Rocky Point. The frequency of 13210 kcs was used, and at the time of the broadcast it was announced that the liner was 750 miles out to sea, en route to Rio de Janeiro. (RX107 Maine)

The Reporters

RX21—Anthony C. Tarr, Seattle, Wash.

RX22—Jack Siringer, Lakewood, Ohio

RX25—George Nahas, Brooklyn, N. Y.

RX33—Carl Martin, Atchison, Kans.

RX37—David Hill, Washington, D. C.

RX42—Stanley LaRue, Beverly Hills, Calif.

RX51—Gilbert Harris, North Adams, Mass.



Looking fresh as a daisy is Vivian Fridell, who is Mary Noble in "Backstage Wife," and it all seems very appropriate with the coming of spring. She has played the leading part in this show since it started two years ago. "Backstage Wife" is broadcast at 11:15 am EDST on Mondays through Fridays over the Red network.

RX52—Samuel A. Meyer, Jr., Rochester, N. Y.

RX73—Helen Lind, Lakewood, Ohio RX85—J. E. Gardner, Cleveland, Ohio

RX86—Matthew Lashner, Lawrence, Mass.

RX91—Ralph Heath, Peninsula, Ohio

RX93—E. Leisering, Jr., Brooklyn, N. Y.

RX98—E. N. Massey, Sweetwater, Tenn.

RX99—Ed. Hirsch, St. Albans, N. Y. RX100—Eleanor O'Neill, Cleveland, Ohio

RX101—Robt. Kingsbury, Orange, Mass.

RX105—John Ziegler, Shaker Heights, Ohio

RX107—Philip Craig, Waterville, Maine

RX108—Douglas E. Manke, Oakland, Calif.

RX109—Pat Webb, San Antonio, Texas RX110-Walter Th. Kammann, Caracas, Venezuela RX112—Geo. Kline, Jr., Williamsport, Pa.

The Stamp Corner

By David Brockton Browne

 ${f F}$ OREMOST in the philatelic news this month is the announcement by Postmaster General James A. Farley of a complete revision of designs on the regular issue of United States postage stamps effective during the present calendar year. The present series, which will be replaced, has been in use since 1922-23.

The portraits of all deceased Presidents of the United States are to be presented in the new series. Twelve presidents, never before honored by postal issues are included. They are Presidents John Adams, John Quincy Adams, Mar-Van Buren, William Henry Harrison, John Tyler, James Polk, Millard Fillmore, Franklin Pierce, James Buchanan, Andrew Johnson, A. Arthur, and Calvin Chester Coolidge.

In addition to the portraits of the presidents, two other well-known Americans are to appear in the series, namely, Benjamin Franklin, father of our nation's postal system, and Martha Washington, wife

of the first president.

Six new values, not now in use, will be issued to fill existing regular postal needs. They are 4½c, 16c, 18c, 19c, 21c, and 24c. No definite date nor location of issuance has been announced, at this writing, but we presume that the series will commence about the middle of May, with Washington, D. C., the favored first day city. The stamps will be released in installments, a few each month until completed. Further information will be included in future issues of RADEX as soon as official announcements are made.

There are 31 stamps scheduled in the series, and it will be noted that the presidents appear chronologically in order of their term of office. A complete list of denominations and corresponding portraits follows.

½c Franklin, 1c Washington, 1½c Washington, 2c John Martha Adams, 3c Jefferson, 4c Madison, Monroe. 5c John Quincy 4½c Adams, 6c Jackson, 7c Van Buren, 8c William Henry Harrison, 9c Tyler, 10c Polk, 11c Taylor, 12c Fillmore, 13c Pierce, 14c Buchanan, 15c Lincoln, 16c Johnson, 17c Grant, 18c Hayes, 19c Garfield, 20c Arthur, 21c Cleveland, 24c Benjamin Harrison, 25c McKinley, 30c Theodore Roosevelt, 50c Taft, \$1 Wilson, \$2 Harding, and \$5 Coolidge.

At least two commemoratives are scheduled to appear during the early summer. The 150th anniversary of the ratification of the Constitution will be memorialized on June 21, while the long awaited Delaware Tercentenary stamp is unofficially announced for either June 27 or 29. The denominations will probably be 3c in each case. First day of issue cities are tentative as yet.

Foreign New Issues

Following the example of other British colonies, British Guiana has replaced the King George V postal issues with a pictorial series for the reign of King George VI. They are: 1c green (ploughing rice), 2c slate purple (Kaieteur Falls), 4c black and rose (map of South America), 6c deep ultramarine (shooting fish), 24c deep green (sugar cane punts), 48c orange yellow (forest road), 60c brown (log rolling), 96c purple brown (Sir Walter Raleigh) and \$1.00 purple (Botanical Gardens).

Postage and airmail sets of Italian East Africa have replaced the former individual issues of Ethiopia, Eritrea, and Italian Somoliland, which have been merged in this recently established geographical division, 20 different values comprise the regular postage set while 13 stamps have been issued for airmail and air express service.

New Zealand recently brought forth a ½d. green stamp with a full face portrait of King George VI in full uniform. Other values in the dominion's new Georgian series are promised for the near future.

Japan has added a new stamp, of a denomination not used before, to the regular postage series. The value is 14 sen, red purple, and pictures a native shrine in the Flowery Kingdom.

Radio and Stamps

Continuing with our discussion of stamps that may be obtained to form a collection around the theme "Radio and Electricity," we journey first to Egypt, the land of the Pyramids where we add three stamps to our collection.

Honoring the International Communications Conference, which met in Cairo, in January, 1938 a set of three values; 5 M red brown, 15 M dull purple, and 20 M bright blue, were issued. The same design is used on each stamp and shows a wireless mast and aerials, telegraph wires, and the ever popular pyramids and Sphinx.

Australia joins our growing list with two stamps released in 1936 in commemoration of the linking of Australia and Tasmania by wireless telephone. The design portrays the Goddess Aphrodite symbolically joining the cables between Australia and Tasmania. Values are 2d red and 3d dark blue.

In support of a sanitarium for government telephone, telegraph, and postal employes, *Bulgaria* issued three semi-postal stamps in 1935, of 1 L chocolate and red

orange, 1 L emerald green and indigo, and 5 L red brown and indigo, denominations. A view of the sanitarium forms the central portion of each stamp with wireless towers and telegraph masts used in panels on each side.

Commemorating the 250th anniversary of the death of the famous inventor, Otto von Guericke, *Germany* issued a single 6 pf. stamp, dark green, in 1936 with the inventor's portrait. von Guericke (1602-1686) is remembered as the inventor of the first electric machine, as well as for his origination of the air-pump.

Next month "The Stamp Corner" will continue discussing stamps related to radio, electricity, and wireless. In the meantime, if you have any problems, questions, or suggestions regarding stamp or cover collecting be sure and send them to your Stamp Editor in care of RADEX, who is always glad to be of service to RADEX large family of readers. Good luck!

Across the EDITOR'S Desk

HERE are only three Special DX Programs to list this month. The most important of the three is the one arranged by station 3AK of Maribyrnong, Australia. 3AK will broadcast on April 24, from 6:45 to 7:30 am, EST, on a frequency of 1500 kilocycles, with 250 watts power. Reports will be verified by Mr. G. D. Hutchins of 10 Ordnance Quarters, Maribyrnong, W3, Vic., Australia. This program will be dedicated to members of the International DXer's Alliance, and the Canadian DX Relay.

The Before Breakfast DX Club of Beverly Hills, Calif., has arranged with KIDO of Boise, Idaho, to transmit a series of special programs.

These broadcasts will be heard on a frequency of 1350 kcs. from 2 until 3 am, EST, on the mornings of May 1, June 5, July 3 and Au-

gust 7.

The Carlsbad, N. Mex., station, KLAH on 1210 kcs., broadcasts on the first Tuesday of every month, at 5am, EST, and on the second Tuesday of every month, at 5:10 am, EST.

Vertical Aerials Again

The vertical aerial described in RADEX for February, 1938, brings amusement to one of our readers, in addition to the good reception it He states it has attractaffords. ed so much attention that passersby generally look up at the "queer contraption," erected on top of his two-story house, and become so engrossed in studying it that many of them wander off the sidewalk and into various kinds of trouble. For example, one man was looking up at the aerial and, unmindful of his direction, almost swallowed his pipe against a telephone pole, and a fair damsel walked into a puddle of water before realizing that she was wandering from the straight and narrow path.

In building this aerial, the reader, Arthur Armstrong, 55 Beacon Court, Brooklyn, N. Y., changed the specifications a little. He purchased four poles, sixteen feet long and 1½ inches square, and banded them together with metal bands one inch wide. He also put small eyelets up and down the inside of the poles to keep the wires taut and to prevent them from "humming" in the

wind.

Writing Letters

We wonder if you have ever written a letter to someone you heard on the radio and enjoyed. We know it must be disappointing to an entertainer or a speaker to call at the station for his mail, and to find only a few letters from his listeners, when he knows, and the station

knows, that he has done a fine and entertaining broadcast. Most of those who speak over the radio have no visible audience, so the only response to their efforts is the letters they receive from listeners.

As an entertainer's popularity is measured by his "fan mail," his listeners should write to the stations if they wish to insure the continuance of the broadcasts. Many fine programs have been allowed to drop because of the failure of listeners to respond.

Empire Broadcasting

The Empire Broadcasting Service from Daventry is now over five years old, and the British Broadcasting Corporation has just issued some comparative statistics showing the growth of the service from December, 1932, to December, 1937.

In 1932 there were only two transmitters in use, operating on four frequencies, and now there are six transmitters which work on sixteen frequencies. During these five years the staff of the Empire department has grown from five persons to sixty-five, and the broadcasting hours have been increased from ten hours per day to approximately eighteen hours per day.

Although broadcasting is now nearly thirty years old, the greatest strides, especially on the shortwaves, have been made in the past five years. Previous to 1932, shortwave broadcasting was purely experimental. In 1938 we are tempted to say that the art is "perfected." although it is still far from perfect.

Ancient History

It seems logical to assume that in the next five years we shall find facsimile in rather general use, television will have come out into the open, and there will be less interference between stations, on the shortwaves as well as on the broadcast band. This writer refuses to prognosticate further than this, however, because the possibilities for

improvement and extension of service are unlimited. We prefer to delve into some ancient history and find out just how long we have been in arriving at our present state of perfection.

Radio as we know it is now 41 years old. It was in 1887 that Prof. Hertz discovered "invisible light beams" and transmitted impulses through the ether. The beams were so unsteady, though, that they were suitable only for transmission of code signals.

Following his invention of the three element vacuum tube, Dr. Lee De Forest first conceived the idea of broadcasting the sound of the human voice, and in 1908 he built several transmitters to be used by the United States Navy.

The first record we have of music being broadcast was in 1909, when the transmitter on board the flagship of Admiral Evans' round the world fleet was used to broadcast music to the other ships in the fleet.

The first broadcasting station was built by Dr. De Forest and installed on top of the Terminal Building in New York City, and the first broadcasts from this location occurred in the month of January, in 1910. Some of the stars who were heard over this station were Enrico Caruso, Mme. Mazarin and Emmy Destinn, of the Metropolitan Opera Company.

Vaughan De Leath, whom many of our readers still remember, broadcast for Dr. De Forest even before the memorable Caruso broadcast of January 13.

The oldest DXer on record is a Mr. Davis, who listened to the first Vaughan De Leath program when he was stationed at the Brooklyn Navy Yard. Mr. Davis later became affiliated with the Tropical Radio Corporation of Boston, Mass., operators of commercial radio stations throughout the Central and South

America. If he is still DXing, he is the oldest DXer in the world.

Down in Wellington, New Zealand, there is a man by the name of A. P. Morrison who has been tuning continuously for 21 years, no doubt the world's record for steady DXing.

If any of our readers can add to this sketchy history of early DXing we shall appreciate it greatly. We shall be particularly interested in knowing who was the first to verify reception of a broadcast.

As the LATINS Dance

• • By Samuel A. Meyer

THE rhythm of some of the dances heard from Latin-American stations sounds strange to our swing-strained ears, and although the tunes seem to invite us to dance, our feet, well enough educated in the Suzie-Q and the shag, do not seem to be able to execute a pattern suitable to the rhythm of the criolla, the conga or the yaravi. Nevertheless, the music is enchanting and, if we know the names of the dances enjoyed below the Rio Grande, we can at least use this knowledge to advantage when making out reception reports for the stations.

It is not easy to make out a report for a Spanish-speaking station if one does not know the names of the selections played. It is possible, however, if one listens carefully to the announcements, to hear the name of the type of selection to follow, and this information acceptable to those who have the task of checking transmission logs against reports. For example, an announcer might say ". . . ahora, tenemos mucho gusto en tocarles el huapango 'El Caballo Palomo.'" The word "huapango," if familiar to the listener, would stand out well



Tim and Irene, comedy team, are in the line-up of the new NBC network show, "Royal Crown Review," that is heard on Fridays at 9 pm, EDST. Others in the cast include George Olsen and his orchestra, Fredda Gibson as soloist, the Golden Gate Quartette, and the veteran Graham McNamee as master of ceremonies

enough for him to be able to state that a huapango had been played at that time.

The Spanish word for a song is a "cancion," and a march is a "marzo." Fox trots are usually called "fox," a waltz is a "vals," and a dance is a "baile."

Two types of dances that are frequently heard are really Spanish. These are the Castillian fandango, and the habanera, which actually originated in Havana, Cuba. Argentine tango and the Cuban rumba are now nearly universal, but the other dances mentioned in this review are practically unknown outside their countries of origin.

The names of some typical selections, available on phonograph records, are given in parentheses, in the compilation following.

Cuba Son ("Suavecito")

Punto Danzon Danzonete

Puerto Rico Bolero ("Capullito de Aleli")

Mexico

Corrido ("La Cucaracha") Huapango ("El Caballo Palomo") Son Huasteco ("Cielito Lindo Huasteco")

Paso Doble ("Valencia")

Bolero Son ("Adela") Pregon ("El Manicero") Rumba ("Cachita") Conga ("Alegre Conga")

Colombia

Pasillo ("Verdes son Tus Ojos") Bambuco ("A Orillas del Magdalena")

Ecuador

Yaravi ("Cayambe") Sanjuanito ("Al pie del Capuli") ("Recuerdos Incaico Chimborazo")

Pasacalle ("Cholita Linda") Pasillo ("Oveme")

Peru

Yaravi Huaino Marinera Tondero

Bolivia

Cueca Zamacueca

Chile

Tonada

Argentina

Tango ("Adios Muchachos") Ranchera

Brazil

Zamba

Veuezuela

Joropo ("Aragueno") (usually sung by two male singers). Jota

A license has been granted for a new station for Bayamo, Cuba. It will be CMKL, on 990 kcs.

Universal DX

Club Corner

● By "Pooky"



BEFORE presenting this month's prize-winning letter, "Pooky" would like to take this opportunity to offer a word of commendation to the West Coast hams who, as usual in time of emergency, offered their time and equipment to the flood sufferers in the Los Angeles area during the recent catastrophe. "Pooky" himself heard one dramatic incident while listening on 75-meter 'phone early one morning. A ham in Oregon had a wife and three children, not to mention a valuable house, on the banks of a swollen river in Los Angeles. He had tried unsuccessfully to reach them by telephone and telegraph and finally, in desperation, turned to his ham transmitter of rather modest power. Α brought an answer from a kilowatt 'phone in Pendleton, Oregon. In a choked voice, he outlined his plight. "Don't worry", came the reassuring response, and a call was sent to the Los Angeles area where contact was made with another ham on the outskirts of the city. This operator had no telephone, and he had been out in the flood all day long and received a thorough soaking. Nothing daunted, he contacted another station in the Los Angeles area. Practically the entire West Coast waited with bated breath for word of the isolated family. Finally came the voice calling

the anxious husband and father: "Your wife reports she and the children are all well, and she has received ten telephone calls in the past fifteen minutes from SWL's who have been listening to this conversation!"

This month's prize letter comes from Paul M. Dillingham, Box 76. Luseland, Saskatchewan. writes: "I first began DX-ing in the late Spring of 1935. I had been messing around for a couple of winters and getting what I have since found out to be some good stuff which, by the way, I would like to get now. At that time, Charles Hesterman was writing some notes in the Saskatoon Daily Star, giving tips on stations to Well, I started chasing look for. them and I got results, logging stations in Argentina, Australia, China, Japan, and New Zealand, just as he said would be done. Mind you, I did not know a thing at that time about the hobby of writing for veries, so when I was getting these catches I made no reports, and the worst of it is that since then I have had very poor success with that class of reception. LR-5 is one of the best that I now have, and I will never forget that broadcast of the Lincoln Marriage on Feb. 12, 1935. I have a veri for that—their big diploma. doubt there are lots of them, but no one thinks more of it than I do. But nowadays I sit at the dials for hours with no results. However, some day those DX stations will come back, and when they do I will be there ready for them."

That's the spirit, Paul! This is a game requiring patience, and plenty of it. We know you'll succeed some day, and here's wishing you the best of luck!

Now, RADEX-ers, that's just a sample of the many subjects you can choose from. So sit down now and write your letter, and if it's printed you will be awarded one of the prizes listed in the last September RADEX.

DX Forum

(Continued from page 13)

times slides down to 910. Its power is given as 400 watts in the New Zealand Radio Call Book, but we in Fiji were always under the impression that the power was 500 watts. It is operated by the Fiji Broadcasting Co., which also owns VPD2 on 9.54 megs. The company is affiliated with the A.W.A. of Australasia. ZJV's operating hours are 6 to 9 a.m., GMT.

"If you would like a picture of the studio building, I'll take a snap next time I'm through there. My ship travels around New Zealand, Australia, the Pacific Islands, and the West Coast of North America."

RADEX would indeed be pleased to have a picture of ZJV and is indebted to Junior Engineer Stackhouse for his kind offer. And that is an idea for other RADEXers who happen near stations in any part of the world.

The shortwave lists will be completed in the June issue. A few stations, taken from the June installment of the lists, are shown below:

11718 CR7BH

Lourenco Marques, Port. East Africa. 200 w. (B). Add: Gremio dos Radiofilos da Colonia de Mocambique, Caixa 594. Hrs: Sun. 5:30-7 a.m. Other days 4:30-6:30 a.m.

11810 2RO4

Rome, Italy. 25 kw. (B).
"Radio Roma-Napoli." Ann:
usually by lady. s/o: two nat'l
anthems, "Giovinezza" and
"Marchia Reale." Add: EIAR,
Vla Montello 5. Hrs: 5 a.m.12:20 p.m.

12000 RNE

Moseow, U.S.S.R. 20 kw. (B).
Programs in Czech, Dutch, Eng,
Fr. Ger, Hungarian, Ru, Sp.
Swedish. Int: Kremlin chimes
on even hours. s/o: "Internationale." Add: Sollanka 12.
Eigin, Ill. (Ex). Press Wireless,

12862 W9XDH

Inc.

12870 VVS

Mingaladon, Burma. 1500 w. (C). Add: Mingaladon Radio, 15th Mile, Prome Road, near Rangoon.



Richard Himber, dance band maestro, co-stars with Lou Holtz, Ted Husing, Kay Thompson and her trio, and Agnes Moorehead, in the new variety program "The Monday Night Show," heard over the CBS at 8 pm on Mondays.

Radio in Guiana Jungle

R ADIO may be old stuff in the United States, but the citizens in the interior of British Guiana still do not understand it, according to Orison Hungerford, operator of the Terry-Holden Expedition station VP3THE, who relayed a series of programs from the tropical jungle to the National Broadcasting Company networks.

"Our camp was some 600 miles up the Essequibo and Rupanuni rivers," said Hungerford on his arrival in New York City yesterday, "and after we set up the radio shack we began to receive visitors. For a couple of weeks the most faithful of these were a group of Wai-wai Indians, who came to inspect the radio equipment and everything else we had. These Indians, who came decked out in their finest paints, must be the

most curious people in the world. They didn't steal anything, but they did inspect everything around the radio shack. If there was something they didn't understand they'd simply break out in loud laughter. It took radio to make them serious.

"The ringleader of these Wai-wai Indians was a tall, handsome fellow. One night when we were working and our visitors were all gathered around I put the earphones on this fellow's head. Blank amazement. His eyes moved first to left, then to right. I took the phones off a minute and he still stood there. All this time there was never a word except those he heard through the earphones. gave one final look around the shack and then turned on his heel and walked out. All the rest followed in silence. And that was the last we saw of our Wai-wai friends. They're probably walking vet.

"Then there was a little girl who came with her mother. She listened to the strange noises coming out of our receiver while we were talking to NBC in New York. She looked first under the table, then up at the ceiling to find out where the voice was coming from. Then she went outside and looked up at the roof. All of a sudden there was a loud wail. The only way we could stop her was to let her manipulate the dials. It finally dawned on her that the voice was coming out of the radio apparatus."

The greatest curse of tropical radio, according to Hungerford, was the insect. The nightly yield of electrocuted bugs averaged one quart. "A bee short-circuited a switch one night and almost put me off the air," he said. "On another occasion a particularly vicious wasp hit me in the side. My yell was probably heard coast-to-coast from the depths of the Guiana jungle.

"Probably no one knows how close we came to not keeping our date for

a New Year's broadcast. The motor driving our generator stopped just before we were due to go on the air. It was raining as it rains only in the tropics. So we rushed out to fix it. dressed only in pajamas. Of course we were soaked, but we kept our date with the NBC audience. This was at night, when it gets cold even in the jungle. Neil MacMillan, my fellow operator, took the microphone. He was shivering from the cold, so I dug my fingers into his shoulder to keep him from knocking the microphone off the table. And all this time he was talking about 120 degrees in the shade."

Disaster nearly ended the pair's jungle adventure, however, when food began to spoil and supplies ran low.

Early in the year Hungerford and MacMillan were already on short rations and in February they set out for Georgetown, getting such food as they could on the way—a can of milk here, turtle eggs on the banks of the Essequibo and a bit of flour from such white men as they encountered. They were always conscious of the fact that another explorer had died only 150 miles from Georgetown under similar circumstances. they reached an outpost of the colonial police Hungerford declared the building looked like the Waldorf-Astoria and the Ritz rolled into one.

Transmission conditions, he added, were excellent, and he even had a long conversation with the Mac-Gregor Expedition in Greenland, another of the NBC expedition program sources. Although he spent some seven months, including 158 days in the interior of British Guiana, and suffered from hunger and bad food, the young engineer is ready for another such trip. In fact, he has one planned down to the last ounce of salt.

Scanning the AMATEUR BANDS

• • By B. L. Ahman, Jr.

For some good reason, the 20-meter band has decided to play "good boy" at last. Real DX is the order of the day now. For instance, one night's dialing brought in VR6AY (ex VR6A), operated by Andrew Young, on Pitcairn Island, in the South Pacific. According to Alfred Razzando of Fayette City, Pa., Mr. Young requests SWL's to enclose New Zealand postage when sending for verification cards.

VR6AY is on the high-frequency side of the band, and comes in, in the east, with an R9, QSA5 signal, any time after 8:30 p.m., and continuing until the wee small hours. Other reports on VR6A and VR6AY were received from Edward R. Danielson and Jack Welsh.

On the same night that we heard VR6AY, we also logged OZ9Q (LF), at R9, QSA5, between 8:15 and 11 p.m.; GI5QX (LF); EI6G (LF) and YR5AA (LF). Many English and French stations were heard as well, but the few aforementioned were the prizes.

EA8AF was heard reading war news slowly with an R9 signal. This station is a Rueda Del Oeste member, so if you are a member you will get a QSL for your reports.

From G. L. Harris of North Adams, Mass., we have a report on a new Nicaraguan amateur. It is YN3DG, owned by Dennis Gallo, Leon, Nicaragua. It is reported after 10 p.m., with an R5 to 7 signal. Potential verification possibilities are not known.

Alan I. Breen of Dunedin, New Zealand, advises us that four stations have been licensed to operate 20 meter 'phone in New Zealand. They are ZL1KJ in Auckland, ZL2BI in Wellington, and ZL4FK and

ZL4FW, both in Dunedin. These stations work in the American 'phone band, and all employ 100 watts power. Transmission hours are limited to the hours of midnight until 7 a.m., local time, which will be, during our summer months, from 7:30 a.m. until 2:30 p.m.

ZL1KJ came on the air on 'phone on December 11, 1937, and worked all continents within six hours. For his first 42 hours of operating, he received 157 reports from Australia, so now he is beginning to wonder what his American mail will be like when it comes in.

Jack Siringer of Lakewood, Ohio, has heard ZL2BI, near 7 a.m. EST.

Mr. Breen of Dunedin also reports VK4HN at Port Moresby, Papua, which is heard on the high frequency side of the American band.

An amusing conversation was recently heard from Havana. One COstation was talking to a W-, and stated that he was on 14084 kcs, but his crystal was cut for 14120 kcs. Otherwise, he thought he was doing all right. What difference do a few kilocycles make, anyway?

For our overseas readers, here is a news tip furnished by E. R. Sherman, Jr., No. Attleboro, Mass. He says that W4OC of Durham, N. C., is definitely set against SWL's. So, save your IRC's and send them to the other W- stations.

Addresses

We list below the call letters, the frequency and the address when known of every amateur station mentioned in these columns. Addresses will not be repeated, however, so readers are urged to keep these columns for future reference.

(The letters LF, MF and HF in parentheses following the call letters of stations mentioned in this column indicate the Low Frequency, Middle Frequency and High Frequency portions of the 20 meter amateur band. Low Frequency stations are those on frequencies between 14,000 and 14,100. Middle Frequencies are from 14,100 through 14,300. High

Frequencies are from 14,300 through 14,400. No attempt is made to show exact frequencies astheyvary greatly)

AR8VP was incorrectly listed last month as FR8VP. The correct address is AR8VP, Rene Fritsch, i/c Communications T-4 Station, Box 107, via Homs, Syria.

EI6G, Charles McCarthy, St. Clare's Ave., Cork, Eire. (LF).

GI5QX, J. N. Smith, Ben Venuto, Hawthornden Drive, Belmont, Belfast, Northern Ireland. (LF).

HB9BL, W. Steinmann, Hegifeldstrasse 49. Oberwinterthur, Switzerland.

VK4HN, H. G. Nicholson, Paga Hill, Port Moresby, Papua, (H.F).

VR6AY, Andrew Young, Pitcairn Island. (HF).

YN3DG, Dennis Gallo, Leon, Nicaragua. (HF).

YR5AA, Ing. Paul Popescu Maleesti, Str. Carol Davila, 89, Bucharest, Roumania. (LF).

ZL1KJ, R. S. Harvey, 9 Pah Ave., Epsom, Auckland, S3. New

ZL2BI, C. G. Liddell, 16 Lerwick Terrace, Lyall Bay, Wellington, E3, New Zealand.

ZL4FK, Dr. R. B. Dodds, 110 St. David St., Dunedin, New Zealand.

ZL4FW, R. D. Phillips, 60 Royal Terrace, Dunedin, New Zealand.

Amateur

CALLS HEARD

The names and addresses of persons reporting stations shown in this list are indicated by small letters following the call signs. to the small letters is given at the end of the column.

Canadian and United States calls heard are listed here only when reported by listeners not resident in North America. Cuban calls are not listed when heard by listeners

in United States or Cuba.

28 Megacycles—Ten Meters
Heard by (w): EI9D; G6DH.
Heard by (z): CN8AV; G-: 2ZV; 5BM;
5LJ; 6AG; 6BW; 6GO; 6GX; 6WU; 8GX;
8SA; HI7G; K4FAY; K6MVV; LU4EL;
ON4FE; ON4PA; VP6YB; VP9R; TV5AA;

14 Megacycles—Twenty Meters

14 Megacycles—Twenty Meters
A-C

AC3KX (i); AR8VP (gm); CE-: 2BR (a);
3AA (f); 3BH (p); 3DW (a); CN-: 2UA
(t); 8AI (u); 8AJ (x); 8AN (o); 8AV
(afmuz); 8MA (g); 8MU (mt); CO-: 2EG
(x); 2GL (x); 2JJ (x); 2JV (x); 2KL
(x); 2LH (x); 2MT (x); 2PG (x); 2RA
(x); 2RC (x); 2RH (x); 2WZ (x); 5EO
(x); 6OM (x); 7BC (x); 7CJ (x); 7CX
(gx); 7UP (g); 8BC (x); 8JK (x); 8RQ
(x); 8YB (x); CT-: 1AY (o); 1EA (t);
1GQ (fgotw); 1JW (u); 1QH (g); CX2AK
(df); CX2AU (g).

E-F

E-F

EA3SI (g); EA9AH (dot); EI-: 2L (f);
3J (fos); 6G (u); 8M (uw); ES1E (r);
ES5D (ftu); FA-: 3HC (p); 8BT (g);
8HC (u); F-: 3CT (t); 3DN (t); 3DO
(t); 3DR (p); 3GR (flmor); 3HL (ot);
3HM (djmo); 3KH (fm); 3LW (hu); 3LX
(o); 3MF (m); 8BT (s); 8DC (st); 8DL
(os); 8GF (t); 8GR (fx); 8KI (hou);
8QD (hmot); 8UE (mo); 8WE (m); 8XL
(t); 8XN (hot); 8ZF (t).

(t); 8XN (hot); 8UE (mo); 8WE (m); 8XL (t); 8XN (hot); 8ZF (t).

GI: 2CC (dgostu); 2CP (t); 5QX (gou); GM-: 2DI (u); 2UU (ffmoru); 3BD (g); 5MW (ou); 5ST (u); 6RV (f); 6WD (fhp); 8RJ (hu); GW6JW (u); GW8CT (m); G-: 2AI (fhmot); 2AK (ox); 2AV (p); 2CU (o); 2DV (o); 2EL (r); 2FC (f); 2HV (s); 2MF (f); 2OT (n); 2PL (or); 2PR (o); 2PU (jot); 2RX (o); 2TR (hs); 2TU (i); 2UT (jmos); 2VB (t); 2VT (h); 2VY (o); 2XV (mor); 2XY (ao); 2ZU (m); 2ZV (f); 3DO (u); 5BJ (hx); 5BM (t); 5DR (m); 5DT (fo); 5GB (t); 5GL (l); 5JO (hw); 5KH (adho); 5KV (r); 5LU (fhox); 5ML (adfhowx); 5NA (o); 5NI (htx); 5OV (j); 5PP (dot); 5QN (hjmotx); 5RV (hmo); 5TP (h); 5TZ (f); 5WH (ah); 5XT (o); 5YV (hmo); 5ZG (jort); 5ZJ (ow); 6AB (t); 6AG (dftwx); 6AZ (x); 6BL (d); 6BW (ghotx); 6BX (t); 6CT (mot); 6DW (t); 6FJ (a); 6FS (m); 6GF (tx); 6GO (f); 6GW (t); 6HV (o); 6IA (tu); 6JF (fhotw); 6JL (s); 6JQ (gt); 6KL (fmo); 6LA (dt); 6LJ (d); 6HR (t); 6NF (u); 6NJ (t); 6NL (hot); 6MR (t); 6NF (u); 6NJ (t); 6NL (hot); 6MR (t); 6NF (u); 6NJ (t); 6NL (h); 6NF (u); 6NJ (t); 6NL (h); 6NF (u); 6NJ (t); 6RX (t); 6SF (o); 6TZ (dt); 6UX (d); 6VK (h); 6VP (d); 6WX (dfhoxx); 6WY (m); 6XR (dfhtw); 6YX (o); 8AU (f); 8BI (os); 8BS (o); 8WX (ou); 8OG (af); 8QH (m); 8SB (o); 8WX (ou); 8OG (af); 8QH (m); 8DG (af); 4DR (af); 4

HB-: 9BG (h); 9BJ (o); 9BL (o); 9BR (h); HC-: 1FG (losz); 1JB (ahlmxz); 1JW (ouw); HH-: 2B (ahlx); 2LD (w); 2PB (u); 2X (au); 4AS (af); 5PA (a h o t w x y); HI-: 2W (d f o x); 3N (adhlowx); 3W (o); 4F (o); 5A (k); 5X (adhotx); 7G (x); 7I (ao); 7L (d); 7N (a); HK-: 1BG (h); 1DG (dfx); 1GC (x);

1JC (x); 1JN (h); 1PA (a); 3ER (w); 3JA (alx); 3JB (k); 3LDC (ehlmuxz); 5OBC (d); HP1A (d); HP1JB (k); HR5C (uwA).

I-J-K

I-J-K

I1TKM (w); J2NF (p); J2NS (g); KA:
1ME (k); 1MG (k); 1ZL (k); 2OB (u);
K4: DDH (fotux); EIL (o); EJF (lpx);
EMG (u); ENT (gu); ENY (pux); EVC
(l); EXP (d); EXU (o); FAY (ouxy);
SA (o); K6: BJJ (k); BMC (k); BNR
(afhklmovxz); CMC (k); GAS (ahloA);
KGA (kyA); KMB (kmqx); KPS (k);
LKN (gh); MTE (hky); MUL (t); MXM
(akxA); MZK (uv); NZQ (deklq); OFW
(y); OJI (A); OQE (hkoqA); OQP (v);
PMB (h); YAL (u).

L-N

LA-: 1F (psu); 1G (u); 1L (m); 6N (j);
LU-: 1BA (k); 1DA (fkxz); 1DJ (dk);
1EA (k); 1HI (o); 1JC (f); 1QA (f);
2BG (do); 2DA (l); 2RX (v); 3AQ (f);
3EJ (f); 4BH (f); 4CZ (adf); 4DC (v);
4KA (f); 5CZ (v); 5JA (f); 7AG (l);
7BK (a); 8AB (x); 8DR (z); 9BV (dm);
9PA (u); Malaga (u); NY2AE (lz).

O-P
OA-: 4AF (a); 4AL (lov); 4R (afoz);
ON-: 4AZ (o); 4BG (jmou); 4BV (t);
4CC (m); 4MJ (mosu); 4MU (j); 4VK
(ow); OQ5AA (a); OZ9Q (u); PA-: OBE
(jo); OEO (mx); OMQ (hjmoruwx);
OMZ (huA); OUN (pA); PY-: 1CK (dt);
1FR (a); 2AK (av); 2BA (u); 2JC (o);
3AK (a); 4BL (m); 5AQ (f). O-P

S-T SM-: 5SD (jru); 6WL (u); 7YA (hu); SP1DC (p); SP2HH (u); SS3X (t); SU-: 1CH (agtuw); 1KA (t); 1KG (tu); 1RD (w); SV1KE (tuw); SV1NK (t); TG5 (u); TG9AA (d); TI-: 2AV (x); 2FG (x); 2HD (a); 2HP (fmnpxz); 2HR (a); 2KP (t); 2RC (akx); 6G (p).

 ZKP
 (t); 2RC
 (akx); 6G
 (p).

 V
 VE-: 1BE
 (k); 1DC
 (g); 1FG
 (k); 1FX

 (k); 2CA
 (g); 2EE
 (g); 2KX
 (g); 3AHA

 (g); 5ABD
 (g); 5AM
 (g); 5APM
 (g);

 5BF
 (g); 5CC
 (g); 5OT
 (g); 5APM
 (g);

 5BF
 (g); 5CC
 (g); 5OT
 (g); VK-: 2ABD
 (k); 2ACO
 (u); 2ADA
 (u); 2ADE
 (oy);

 2ADT
 (m); 2AFO
 (g); 2AFQ
 (g); 2AGU

 (m); 2AHA
 (i); 2AO
 (m); 2AS
 (u);

 2BQ
 (mA); 2CE
 (g); 2CP
 (y); 2DK
 (A);

 2GU
 (flmrz); 2HF
 (koz); 2HJ
 (m); 2HV

 (m); 2LZ
 (m); 2MX
 (u); 2NO
 (m); 2NY

 (m); 2LZ
 (m); 2MX
 (u); 2NO
 (m); 2NY

 (m); 2LZ
 (m); 2MX
 (u); 2NO
 (m); 2NY

 (m); 2LZ
 (m); 2MX
 (u); 3BD
 (m); 2NY

 (m); 2DQ
 (fu); 2VV
 (kA); 3BI
 (m); 2NY

 (m); 3MX
 (fm); 3NG
 (f); NP
 (fiA

 3NT
 (ag); 3PL
 <th VU2CQ (u).

W
1AVG, 1BNQ, 1IMP, 2HCW, 2IGE, 4EIS, 5FGP, 6LFD, 6MZD, 7AYD, 7BME, 8DSN, 8EXX, 8MRR, 9QAS, 9VSO (All heard by g).
W1OXAB (adknowxA).

X-Y

XE-: 1BC (x); 1BT (d); 1F (k); 1FF (dl); 1GK (kx); 1GS (k); 1H (z); 1S (k); 2AC (k); 2BJ (dkl); 2CY (kx); 2F (n); 2GS (k); 2HD (dfkx); 2HR (n); 2IY (il); 2JK (k); 2SY (k); 3AR (z); 3BA (x); Y12BA (t); YN-: 1HS (u); 1OP (hA); 3DG (dA); YR5AA (u); YV: 1AA (wz); 1AB (l); 1AC (o); 1AG (z); 1AP (ehmoyz); 1AQ (ahklotuwxyz); 4AA (achlmxz); 4AB (acowz); 4AN (a); 4AO (uvxz); 4AX (u); 5AB (ao); 5ABA (ox); 5ABF (ckovz); 5ABQ (aco); 5ABY (acfhklopuwxz); 5AD (ah); 5AG (jmo); 5AK (o); 5AM (c); 5AN (afx); 5AQ (ak); 5AZ (acovxz). X-Y

ZE1JR (uv); ZL2BI (u); ZP1LB (s); ZP2AC (u); ZS-: 1AX (z); 1B (w); 2N (z); 2X (ow); 3F (z); 5M (z); 6AA (l); 6AJ (hwz); 6S (u); ZT1R (u); ZU5J (l); ZU5Z (z); ZU6AJ (x); ZU6P (z).

The Reporters

(a)Gail T. Beyer, 3226 Sunnyside Ave., Chicago, Ill. Pawnee

Danielson, Jr., (b) Edward City, Nebr.

Russell Geiger, Youngstown, Ohio. Gilbert Harris, 60 N. Holden St., (c)(d)

No. Adams, Mass. Dewey Hay, 4209 Delmar Ave., Toledo, Ohio. (e)

Frank Hoxie, Box 15, So. Orring-**(f)** ton, Maine.

(g)(h)

(i)

ton, Maine.
Walter Th. Kamman, Box 1891,
Caracas, Venezuela.
Geo. F. Kline, 230 Chatham St.,
Williamsport, Pa.
Stanley La Rue, 309 S. Bedford
Drive, Beverly Hills, Calif.
John McCarthy, 1630 N. Albany
Ave., Chicago, Ill.
Francis McDonald, 215 E. 34th St.,
Tucson Ariz (j)

(k)

(l)

(m)

Tucson, Ariz.

Merton Meade, 819 Wyandotte St.,

Kansas City, Mo.

Geo. Nahas, 147 Seeley St., Brooklyn, N. Y.

Martin Olthoff, 212 N. 16th St., In-(n)dependence, Kans

(o)

Kenneth Page, 292 Richmond Ave., Buffalo, N. Y. Benjamin Peet, 352 Pleasant Ave., New York City. (p)

Alfred Razzando, Route 1, Fayette (q)

(r)

City, Pa.
Justus Schlichting, 236 Mortimer
Road, Glencoe, Ill.
Walter V. Scholz, 2nd, 33 N. Maple
Webster Groves, Mo. (8) Ave., Webster Groves, Mo.
E. R. Sherman, Jr., 91 Grove St.,
N. Attleboro, Mass. (t)

(u)

(v)

Jack Siringer, 1451 Lincoln Ave., Lakewood, Ohio. Cliff Tavener, Rosenburg, Texas. Carroll Weyrich, Parkville, Md. Phillip Wharton, Box 413, Water-(w)(x)

(y)

ford, Ont.
Hadley Wilcox, 623 W. 40th Place,
Los Angeles, Calif.
Cyrus Will, 651 Brier St., Kenilworth, Ill. (z)

(A)

Frequency Check Schedule

HE Federal Communications Commission recently has adopted a new schedule for its monthly frequency checks. Reducing the periods for each station from 20 to 15 minutes, the FCC now has one or more broadcasters signing on every five minutes. A total of 335 stations is included in the schedule which is now in operation.

As in the past, the tests take place during the second week of each month. In May, the schedule will commence on Monday the 9th, and continue through Saturday the 14th.

All times listed are a.m., Eastern Standard.

Second	Monday	

		Second	Monday
3:00-3:15	WABY	1370	Albany, N. Y.
3:05-3:20	WMAS	1420	Springfield, Mass.
3:10-3:25	WCAX	1200	Burlington, Vt.
3:15-3:30	WRDO	1370	Augusta, Maine
3;20-3;35	WAGM	1420	Presque Isle, Me.
3:30-3:45	WQDM	1390	St. Albans, Vt.
3:35-3:50	WMFF	1310	Plattsburg, N. Y.
3:40-3:55	WARI	1200	Bangor, Maine
3:45-4:00	WCAD	1220	Canton, N. Y.
3:50-4:05	WLNH	1310	Laconia, N. H.
3:55-4:10	WIBX	1200	Utlea, N. Y.
4:00-4:15	WWRL		Woodslde, N. Y.
4:05-4:20	WMBO		Auburn, N. Y.
4:10-4:25	WBRB	1210	Red Bank, N. J.
4:20-4:35	KVOX	1310	Moorhead, Minn.
4:25-1:40	KFPW	1210	Fort Smith, Ark.
4:30-4:45	WMIN	1370	St. Paul, Minn.
4:35-4:50	KNET	1420	Palestine, Texas
4:40-4:55	WBBZ	1200	Ponca Clty, Okla.
4:45-5:00	KFGQ	1370	Boone, Iowa
1:50-5:05	KRBC	1420	Abllenc, Texas
1:55-5:10	KGHI	1200	Littlevitock, Ark.
5:00-5:15	KTEM	1370	Temple, Texas
5:05-5:20	KABR	1420	Aberdeen, S. D.
5:10-5:25	KGEK	1200	Sterling, Colo.
5:15-5:30	KFJZ	1370	Fort Worth, Texas
:20-5:35	WMBII	1420	Joplin, Mo.
:25-5:40	WIL	1200	St. Louis, Mo.
30-5:45	WOC	1370	Davenport, Iowa
:35-5:50	KABC	1420	San Antonio, Texas
:40-5:55	KADA	1200	Ada, Okla.
:45-6:00	KLUF	1370	Galveston, Texas
:55-6:10	KHBC	1400	Hilo, Hawaii
:00-6:15	KRE	1370	Berkeley, Calif.
:05-6:20	KXO	1500	El Centro, Calif.
:10-6:25	KWG	1200	Stockton, Calif.
:15-6:30 :20-6:35	KERN	1370	Bakersfield, Calif.
:25-6:40	KUMA	1420	Yuma, Arlz.
:30-6:45	KVCV KLS	1200	Redding, Calif.
:35-6:50		1280	Oakland, Calif.
	KYOS	1040	Merced, Calif.
:40-6:55 :45-7:00	KSUN KODM	1200	Lowell, Ariz.
.TU-1.UU	MUDM	1100	Stockton, Calif.

6

6

6:50-7:05

6:55-7:10

KIEM

KVEC

1450

1200

Eureka, Calif.

San Luis Obispo, Calif,

		Ennand	Taxanda
3:00-3:15	WSJS	1310	Tuesday
3:05-3:20			Winston-Salem, N. C.
3:10-3:25			Daytona Beach, Fla.
3:15-3:30			Anderson, S. C.
3:20-3:35	WEED		Wilmington, N. C.
3:25-3:40			Rocky Mount, N. C.
3:30-3:45	WRDW	1200	W. Palm Beach, Fla.
			Augusta, Ga.
3:35-3:50	WICA	940	Ashtabula, Ohlo
2140 2155	WIOD	610	Miami, Fla.
3:40-3:55			Waycross, Ga.
0.45 4.00	WBLY	1210	Lima, Ohio
3:45-4:00	WDNC		Durham, N. C.
0.50.4.05	WPAY	1370	Portsmouth, Oblo
3:50-4:05	WAIR	1250	Winston-Salem, N. C.
	WMBC	1420	Detroit, Mich.
3:55-4:10	WALR	1210	Zanesville, Ohio
	WMFR		High Point, N. C.
4:00-4:15	WHBB	1500	Selma, Ala.
	WKRC	550	Cincinnati, Ohio
4:05-4:20	WCLE	610	Cleveland, Ohlo
	WSMB	1320	New Orleans, La.
4:10-4:25	KALB	1210	Alexandria, La.
	WLBC	1310	Muncie, Ind.
4:15-4:30	KELD	1370	El Dorado, Ark.
2770 2100	WOPI	1500	
	WWAE	1200	Bristol, Tenn. Hammond, Ind.
4:20-4:35	WACO	1420	Waco, Texas
1120 1100	WBCM	1410	
	WDBO	580	Bay City, Mich.
4:25-4:40	KXYZ		Orlando, Fla.
1.20-7.40	WCMI	1440	Houston, Texas Ashland, Ky.
		1310	Ashiand, Ky.
4.90 4.45	WSIX	1210	Nashville, Tenn.
4:30-4:45	KGKL	1370	San Angelo, Tex. Green Bay, Wis.
	WHBY	1200	Green Bay, Wis.
4.25 4.50	WHEF	1500	Kosclusko, Miss.
4:35-4:50	KCMC	1420	Texarkana, Tex.
4:40 4:55	WHK	1390	Cleveland, Ohlo
4:40-4:55	KRGV	1260	Weslaco, Texas
	WADC	1320	Akron, Ohio
4:45-5:00	KTOK	1370	Oklahoma Clty, Okla.
	WJBK	1500	Detroit, Mich.
4:50-5:05	KGFF	1420	Shawnee, Okia.
4:55-5:10	KFVS	1210	Cape Girardeau, Mo.
5:00-5:15	KMAC	1370	San Antonio, Texas
5:05-5:20	KAND	1310	Corsicana, Texas
5:10-5:25	KLAH	1210	Carlsbad, N. Mex.
5:15-5:30	KIUP	1370	Durango, Colo.
5:20-5:35	KFXR	1310	Oklahoma City, Okia.
5:25-5:40	KDLR	1210	Devlis Lake, N. D.
5:30-5:45	KICA	1370	Clovis, N. Mex.
5:35-5:50	KGMB	1320	Honolulu, Hawall
5:40-5:55	KBTM	1200	Jonesboro, Ark.
5:45-6:00	KRMC	1370	Jamestown, N. D.
6:05-6:20	KORE	1420	Eugene, Ore.
6:10-6:25	KOOS	1200	Marshfleid, Ore.
6:15-6:30	KAST	1370	Astoria, Ore.
6:20-6:35	KPQ	1500	
6:25-6:40	KFXD		Wenatchee, Wash.
6:30-6:45	KUJ	1200	Nampa, Idaho
		1370	Walla Walla, Wash,
6:35-6:50	KRNR	1500	Roseburg, Ore.
6:40-6:55	KVOS	1200	Bellingham, Wash.
6:45-7:00	KEEN	1370	Seattle, Wash.
6:50-7:05	KMED	1410	Medford, Ore. Everett, Wash.
7:00-7:15	KRKO	1370	Everett, Wash.
	Sec	ond We	dnesday
3:00-3:15			Philadelphia, Pa,
3:05-3:20		1500	Binghamton, N. Y.
3:10-3:25		1900	Lunchhurg Vo

1200

1310

1500

1210

1310

1500

WSAJ

WWSW

WBAX

WHAT

WRTD

Lynchburg, Va.

Grove City, Pa.

Pittsburgh, Pa.

Wilkes-Barre, Pa.

Philadeiphia, Pa.

Richmond, Va.

3:10-3:25

3:15-3:30

3:20-3:35

3:25-3:40

3:30-3:45 3:35-3:50

							T20-1 T 3
3:40-3:55	WBBL	1210	Richmond, Va.		WTRC	1310	Elkhart, Ind. Okmulgee, Okla.
3:45-4:00	WBNY	1370	Buffalo, N. Y.	5:10-5:25	KHBG KONO	1210 1370	San Antonio, Tex.
3:50-4:05	WHIS	1410	Bluefield, W. Va.	5:15-5:25 5:20-5:35	KGKB	1500	Tyler, Texas
3:55-4:10	WKOK	1210 1310	Sunbury, Pa. Altoona, Pa.	5:25-5:40	KASA	1210	Elk City, Okia.
4:00-4:15	WFBG WQAN	880	Scranton, Pa.	5:30-5:45	KFRO	1370	Longview, Texas
4:05-4:20 4:10-4:25	KWNO	1200	Winona, Minn.	5:35-5:50	KNOW	1500	Austin, Texas
4.10-1.20	WHDL	1400	Olean, N. Y.	5:40-5:55	WMFG	1210	Hibbing, Minn.
4:15-4:30	KRIS	1330	Corpus Christi, Tex.	5:45-6:00	KRLH	1420	Midland, Texas
	WEBR	1310	Buffalo, N. Y.	5:50-6:05	KCRJ	1310	Jerome, Ariz.
	WIBM	1370	Jackson, Mich.	5:55-6:10	KIUL	1210	Garden City, Kans.
4:20-4:35	KBST	1500	Big Spring, Texas		KVOA	1260	Tucson, Ariz.
	WPAR	1420	Parkersburg, W. Va.	6:05-6:20	KHUB	1310	Watsonville, Calif.
4:25-4:40	KSO	1430	Des Moines, Iowa	6:10-6:25	KGGC	1420 1370	San Francisco, Calif. Tucson, Ariz.
	WCLO	1200	Janesville, Wis.	6:15-6:30 6:20-6:35	KGAR KSRO	1310	Santa Rosa, Calif.
4:30-4:45	KROC	1310 1370	Rochester, Minn. Evansville, Ind.	6:25-6:40	KTRB	740	Modesto, Calif.
4.25 4.50	WEOA KDAL	1500	Duluth, Minn.	6:30-6:45	KJBS	1070	San Francisco, Calif.
4:35-4:50	WELL	1420	Battle Creek, Mich.	6:35-6:50	KSUB	1310	Cedar City, Utah
4:40-4:55	WHBC	1200	Canton, Ohio	6:40-6:55	KDON	1210	Monterey, Calif.
1.10 1.00	WTAW	1120	College Station, Tex.	6:45-7:00	KGU	750	Honolulu, Hawaii
4:45-5:00	KRMD	1310	Shreveport, La.	6:50-7:05	KHSL	1260	Chlco, Calif.
	WSAU	1370	Wausau, Wis.	6:55-7:10	KROY	1210	Sacramento, Calif.
4:50-5:05	KNEL	1500	Brady, Texas			Second	
	WLAP	1420	Lexington, Ky.	3:00-3:15	wsvs	1370	Buffalo, N. Y.
4:55-5:10	KFDM	560	Beaumont, Texas	3:05-3:20	WJAC	1310	Johnstown, Pa.
	WFAM	1200	South Bend, Ind.	3:10-3:25	WJTN	1210	Jamestown, N. Y.
5:00-5:15	KPDN	1310	Pampa, Texas	3:15-3:30	WBLK	1370	Clarksburg, W. Va.
5:05-5:20	KPLT	1500	Paris, Texas Springfield, Ill.	3:20-3:35	WLEU	1420	Erie, Pa.
5:10 E:05	WCBS KGKO	1420 570	Wichita Falls, Tex.	3:25-3:40	WCAP WSAY	1280 1210	Asbury Park, N. J. Rochester, N. Y.
5:10-5:25 5:15-5:30	KFPL	1310	Dublin, Texas	3:30-3:45	WDEV	550	Waterbury, Vt.
0.10-0.00	WDWS	1370	Champaign, Ill.	0.00-0.40	WGH	1310	Newport News, Va.
5:20-5:35	KAWM		Gallup, N. Mex.	3:35-3:50	WCNW	1500	Brooklyn, N. Y.
0.20 0.21	WPAD	1420	Paducah, Ky.	0.00	WMBS	1420	Uniontown, Pa.
5:25-5:40	KGLO	1210	Mason Clty, Iowa	3:40-3:55	WFAS	1210	White Plains, N. Y.
	WJBC	1200	Bloomington, Ill.		WMBG	1350	Richmond, Va.
5:30-5:45	KRRV	1310	Sherman, Texas	3:45-4: 00	woko	1430	Albany, N. Y.
	WGL	1370	Fort Wayne, Ind.		WRAW	1310	Reading, Pa.
5:35-5:50	KGKY	1500	Scottsbluff, Neb.	3: 50 -4: 05	WDAS	1370	Philadelphia, Pa.
5:40-5:55	WIBU	1210	Poynette, Wis.		WSYB	1500	Rutland, Vt.
				2.55 4.10			Company Luke NIV
			Thursday	3:55-4:10	WNBZ	1290	Saranac Lake, N.Y.
3:00-3:15			Miami Beach, Fla.		WNBZ WSYR	1290 570	Syracuse, N. Y.
	S	econd	Miami Beach, Fla. Tuscaloosa, Ala.	4:00-4:15	WNBZ WSYR WBRE	1290 570 1310	Syracuse, N. Y. Wilkes-Barre, Pa.
3:00-3:15	WKAT WJRD WSOC	1500 1200 1210	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C.		WNBZ WSYR WBRE WBTM	1290 570 1310 1370	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30	WKAT WJRD WSOC WAML	1500 1200 1210 1310	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss.	4:00-4:15 4:05-4:20	WNBZ WSYR WBRE	1290 570 1310	Syracuse, N. Y. Wilkes-Barre, Pa.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35	WKAT WJRD WSOC WAML WPRA	1500 1200 1210 1310 1370	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R.	4:00-4:15	WNBZ WSYR WBRE WBTM WNLC	1290 570 1310 1370 1500	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40	WKAT WJRD WSOC WAML WPRA WPAX	1500 1200 1210 1310 1370 1210	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga.	4:00-4:15 4:05-4:20	WNBZ WSYR WBRE WBTM WNLC WGBB WHEC WTHT	1290 570 1310 1370 1500 1210 1430 1200	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45	WKAT WJRD WSOC WAML WPRA WPAX WQAM	1500 1200 1210 1310 1370 1210 560	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla.	4:00-4:15 4:05-4:20 4:10-4:25	WNBZ WSYR WBRE WBTM WNLC WGBB WHEC WTHT WMBQ	1290 570 1310 1370 1500 1210 1430 1200 1500	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. B.ooklyn, N. Y.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP	1500 1200 1210 1310 1370 1210 560 1420	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35	WNBZ WSYR WBRE WBTM WNLC WGBB WHEC WTHT WMBQ WRAK	1290 570 1310 1370 1500 1210 1430 1200 1500 1370	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:55	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC	1500 1200 1210 1310 1370 1210 560 1420 1200	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30	WNBZ WSYR WBRE WBTM WNLC WGBB WHEC WTHT WMBQ WRAK WBOW	1290 570 1310 1370 1500 1210 1430 1200 1500 1370 1310	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. B.ooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:55 3:45-4:00	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ	1500 1200 1210 1310 1370 1210 560 1420 1200 1240	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40	WNBZ WSYR WBRE WBTM WNLC WGBB WHEC WTHT WMBQ WRAK WBOW WGNY	1290 570 1310 1370 1500 1210 1430 1200 1500 1370 1310 1210	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:55 3:45-4:00 3:50-4:05	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC	1500 1200 1210 1310 1370 1210 560 1420 1200	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45	WNBZ WSYR WBRE WBTM WNLC WGBB WHEC WTHT WMBQ WRAK WBOW WGNY WJBL	1290 570 1310 1370 1500 1210 1430 1200 1500 1370 1310 1210 1200	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. B.ooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:55 3:45-4:00 3:50-4:05	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG	1500 1200 1210 1310 1370 1210 560 1420 1200 1240 1440	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40	WNBZ WSYR WBRE WBTM WNLC WGBB WHEC WTHT WMBQ WRAK WBOW WGNY WJBL KATE	1290 570 1310 1370 1500 1210 1430 1200 1500 1370 1310 1210 1200 1420	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. B.ooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:55 3:45-4:00 3:55-4:01 4:00-4:15	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY	1500 1200 1210 1310 1370 1210 560 1420 1240 1240 1440 1370 1500	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Charles, La.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:35-4:50	WNBZ WSYR WBTM WNLC WGBB WHEC WTHT WMBQ WRAK WBOW WGNY WJBL KATE WKBB	1290 570 1310 1370 1500 1210 1430 1200 1370 1310 1210 1200 1420 1500	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn. Dubuque, Iowa
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:55 3:45-4:00 3:50-4:05	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY WAGF KPLC WFDF	1500 1200 1210 1310 1370 1210 560 1420 1200 1240 1440 1210 1370 1500 1310	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Charles, La. Flint, Mich.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45	WNBZ WSYR WBTM WNLC WGBB WHEC WTHT WMBQ WRAK WGNY WJBL KATE WKBB KARK	1290 570 1310 1370 1500 1210 1430 1200 1370 1310 1210 1200 1420 1420 1500 890	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. B.ooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:55 3:45-4:00 3:50-4:05 4:00-4:15 4:00-4:15 4:01-4:25	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY WAGF KPLC WFDF	1500 1200 1210 1310 1370 1210 1370 1210 1420 1200 1240 1440 1210 1370 1500 1310 1340	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Charles, La. Fiint, Mich. Toledo, Ohlo	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:35-4:50	WNBZ WSYR WBRE WBTM WNLC WGBE WTHT WMBQ WRAK WBOW WGNY WJBL KATE WKBB KARK WJIM	1290 570 1310 1370 1500 1210 1430 1200 1370 1310 1210 1200 1420 1500	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. B.ooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn. Dubuque, lowa Little Rock, Ark.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:55 3:45-4:00 3:50-4:05 3:55-4:10 4:00-4:15 4:05-4:20	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY WAGF KPLC WFDF WSPD WCPO	1500 1200 1210 1310 1310 1210 560 1420 1200 1240 1240 1210 1370 1500 1310 1340 1200	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Charles, La. Fiint, Mich. Toledo, Ohlo Cincinnati, Ohlo	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:35-4:50	WNBZ WSYR WBTM WNLC WGBB WHEC WTHT WMBQ WRAK WGNY WJBL KATE WKBB KARK	1290 570 1310 1370 1210 1430 1200 1370 1310 1200 1420 1500 890 1210 1310 1310 1310 1310	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. B.ooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Aibert Lea, Minn. Dubuque, lowa Little Rock, Ark. Lansing, Mich.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:35-3:45 3:35-3:50 3:40-3:55 3:45-4:00 4:00-4:15 4:05-4:20 4:10-4:25 4:10-4:25 4:15-4:30	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAC WBIG WFOY WAGF WFDF WSPD WCPO WMFO	1500 1200 1210 1310 1370 1210 560 1420 1200 1240 1440 1210 1370 1370 1310 1340 1370	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Charles, La. Flint, Mich. Toledo, Ohlo Cincinnati, Ohlo Decatur, Ala.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:35-4:50	WNBZ WSYR WBTM WNLC WGBB WHEC WTHT WMBQ WRAK WBOW WGNY WJBL KATE WKBB KARK WJIM WEXL	1290 570 1310 1370 1500 1210 1430 1500 1370 1210 1200 1420 1500 890 1210 1310 1310 1370	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn. Dubuque, lowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. Pecos, Texas
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:55 3:45-4:00 3:50-4:05 4:00-4:15 4:00-4:15 4:01-4:25	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY WAGF KPLC WFDF WSPD WCPO WMFO KFIZ	1500 1200 1210 1310 1370 1210 560 1420 1200 1240 1440 1210 1370 1340 1200 1370 1340	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Charles, La. Fiint, Mich. Toledo, Ohlo Cincinnati, Ohlo Decatur, Ala. Fond du Lac, Wis.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:35-4:50 4:40-4:55 4:45-5:00 4:50-5:05	WNBZ WSYR WBRE WBTM WNLC WGBB WHEC WTHT WMBQ WRAK WBOW WGNY WJBL KATE WKBB KARK WJIM WEXL WHLB KIUN KFJB	1290 570 1310 1370 1500 1210 1430 1200 1500 1310 1210 1200 1500 890 1210 1310 1310 1310 1310 1310 1310 131	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn. Dubuque, lowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. Pecos, Texas Marshalltown, Iowa
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:45-4:00 3:50-4:05 3:55-4:10 4:00-4:15 4:05-4:20 4:10-4:25 4:10-4:35	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY WAGF KPLC WFDF WSPD WCPO WMFO WMFO WMFO	1500 1200 1210 1310 1370 1210 560 1420 1200 1240 1440 1210 1370 1500 1340 1200 1340 1200 1370 1500	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Charles, La. Filnt, Mich. Toledo, Ohlo Cincinnati, Ohlo Decatur, Ala. Fond du Lac, Wis. Griffin, Ga.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:35-4:50 4:40-4:55 4:45-5:00 4:50-5:05	WNBZ WSYR WBTM WNLC WGBB WHEC WTHT WMBQ WRAK WBOW WGNY WJBL KATE WKBB KARK WJIM WEXL WHLB KIUN KFJB KGGM	1290 570 1310 1370 1500 1210 1430 1200 1310 1210 1200 1420 1500 890 1210 1310 1370 1420 1200 1200 1200	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn. Dubuque, Iowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. Pecos, Texas Marshalltown, Iowa Albuquerque, N. M.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:35-3:45 3:35-3:50 3:40-3:55 3:45-4:00 4:00-4:15 4:05-4:20 4:10-4:25 4:10-4:25 4:15-4:30	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY WAGF KPLC WFDF WSPD WCPO WMFO KFIZ WKEU WGBF	1500 1200 1210 1310 1370 1210 560 1420 1200 1240 1440 1210 1370 1310 1340 1200 1370 1420 1370 1420 1370	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Charles, La. Flint, Mich. Toledo, Ohlo Cincinnati, Ohlo Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:35-4:50 4:40-4:55 4:45-5:00 4:50-5:05 4:55-5:10 5:00-5:15	WNBZ WSYR WBRE WBTM WNLC WGBB WHEC WTHT WMBQ WRAK WBOW WGNY WJBL KATE WKBB KARK WJIM WEXL KIUN KFJB KGGM WBEO	1290 570 1310 1370 1500 1210 1430 1200 1370 1310 1200 1420 1500 890 1210 1310 1370 1420 1200 1420 1310 1310 1310 1310	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn. Dubuque, lowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. Pecos, Texas Marshalltown, Iowa Albuquerque, N. M. Marquette, Mich.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:55 3:45-4:00 3:50-4:05 3:55-4:10 4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY WAGF KPLC WFDF WSPD WCPO WMFO KFIZ WKEU WGBF WGCM	1500 1200 1210 1310 1370 1210 1420 1200 1240 1240 1240 1370 1340 1200 1340 1200 1340 1200 1340 1200 1340 1200 1340 1200 1340 1200 1310 1340 1340 1340 1340 1340 1340 13	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Charles, La. Fiint, Mich. Toledo, Ohlo Cincinnati, Ohlo Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind. Mississispipi City, Miss.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:35-4:50 4:40-4:55 4:45-5:00 4:50-5:05	WNBZ WSYR WBRE WBTM WNLC WGBE WHEC WTHT WMBQ WRAK WBOW WGNY WJBL KATE WKBB KARK WJIM WEXL WHLB KGGM KGJW	1290 570 1310 1370 1500 1210 1430 1200 1500 1310 1210 1420 1500 890 1210 1310 1370 1420 1420 1420 1420 1420 1420 1420	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn. Dubuque, lowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. Pecos, Texas Marshalltown, Iowa Albuquerque, N. M. Marquette, Mich. Alamosa, Colo.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:45-4:00 3:50-4:05 3:55-4:10 4:00-4:15 4:05-4:20 4:10-4:25 4:10-4:35	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY WAGF KPLC WFDF WCPO WMFO WMFO WKFIZ WKEU WGBF KFIZ	1500 1200 1210 1310 1370 1210 560 1420 1240 1240 1440 1210 1370 1500 1340 1200 1340 1200 1310	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Charles, La. Flint, Mich. Toledo, Ohlo Cincinnati, Ohlo Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:35-4:50 4:40-4:55 4:50-5:05 4:50-5:10 5:00-5:15	WNBZ WSYR WBTM WNLC WGBB WHEC WTHT WMBQ WRAK WBOW WGNY WJBL KATE WKBB KARK WJIM WEXL WHLB KIUN KFJB KGGM WBEO KGIW WKBV	1290 570 1310 1370 1500 1210 1430 1200 1500 1310 1210 1420 1500 890 1210 1310 1370 1420 1200 1200 1210 1310 1420 1500	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn. Dubuque, lowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. Pecos, Texas Marshalltown, Iowa Albuquerque, N. M. Marquette, Mich. Alamosa, Colo. Richmond, Ind.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:55 3:45-4:00 3:50-4:05 3:55-4:10 4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WBIG WFOY WAGF KPLC WFDF WSPD WCPO WMFO KFIZ WGBF WGCM KFYO WAVE	1500 1200 1210 1310 1370 1210 1420 1200 1240 1240 1240 1370 1340 1200 1340 1200 1340 1200 1340 1200 1340 1200 1340 1200 1340 1200 1310 1340 1340 1340 1340 1340 1340 13	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Charles, La. Filnt, Mich. Toledo, Ohlo Cincinnati, Ohlo Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind. Mississippi City, Miss. Lubbock, Texas	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:35-4:50 4:40-4:55 4:45-5:00 4:50-5:05 4:55-5:10 5:00-5:15	WNBZ WSYR WBRE WBTM WNLC WGBB WHEC WTHT WMBQ WRAK WBOW WGNY WJBL KATE WKBB KARK WJIM WEXL KIUN KFJB KGGM WBEO KGIW WKBV KGDE	1290 570 1310 1370 1500 1210 1200 1370 1310 1200 1420 1500 1210 1300 1300 1	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn. Dubuque, Iowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. Pecos, Texas Marshalltown, Iowa Albuquerque, N. M. Marquette, Mich. Alamosa, Colo. Richmond, Ind. Fergus Falls, Minn.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:35-3:50 3:40-3:55 3:45-4:00 4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY WAGF KPLC WFDF WCPO WMFO WMFO WKFIZ WKEU WGBF KFIZ	1500 1200 1210 1310 1370 1210 560 1420 1200 1240 1440 1210 1370 1310 1300 1310 1420 1370 1420 1370 1420 1370 1420 1370 1420 1370 1420 1420 1420 1420 1420 1420 1420 142	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Charles, La. Fiint, Mich. Toledo, Ohlo Cincinnati, Ohlo Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind. Misslssippi City, Miss. Lubbock, Texas Louisville, Ky. Hattlesburg, Miss. Grand Forks, N. D.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:35-4:50 4:35-4:50 4:40-4:55 4:55-5:00 4:50-5:05 4:55-5:10 5:00-5:15 5:05-5:20	WNBZ WSYR WBRE WBTM WNLC WHEC WTHT WMBQ WRAK WBOW WGNY WJBL KATE WKBB KARK WJIM WEXL WHLB KIUN KFJB KGGM WBEO KGIW WKBV KGDE WHBF	1290 570 1310 1370 1500 1210 1430 1200 1500 1310 1210 1200 1420 1500 1210 1310 1220 1420 1230 1420 1230 1420 1200 1210 1210 1210 1210 1210 121	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn. Dubuque, Iowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. Pecos, Texas Marshalltown, Iowa Albuquerque, N. M. Marquette, Mich. Alamosa, Colo. Richmond, Ind. Fergus Falls, Minn. Rock Island, Ill.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:55 3:45-4:00 3:50-4:05 3:55-4:10 4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY WAGF KPLC WFDF WSPD WCPO WMFO KFIZ WKEU WGBF WGCM KFYO WAVE WFOR	1500 1200 1210 1310 1370 1210 560 1420 1200 1240 1440 1210 1370 1310 1340 1200 1370 1420 1370 1430 1430 1440 1440 1440 1440 1440 144	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Charles, La. Fiint, Mich. Toledo, Ohlo Cincinnati, Ohlo Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind. Mississippi City, Miss. Lubbock, Texas Louisville, Ky. Hattlesburg, Miss. Grand Forks, N. D. Memphis, Tenn.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:35-4:50 4:40-4:55 4:50-5:05 4:50-5:10 5:00-5:15	WNBZ WSYR WBRE WBTM WNLC WGBB WHEC WTHT WMBQ WRAK WBOW WGNY WJBL KATE WKBB KARK WJIM WEXL WHLB KIUN KFJB KGGM WBEO KGIW WKBV KGDE KHBF KGFL	1290 570 1310 1370 1500 1210 1430 1200 1500 1310 1210 1200 1420 1500 890 1210 1210 1230 1230 1230 1230 1230 123	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn. Dubuque, lowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. Pecos, Texas Marshalltown, Iowa Albuquerque, N. M. Marquette, Mich. Alamosa, Colo. Richmond, Ind. Fergus Falls, Minn. Rock Island, Ill. Roswell, N. Mex.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:35-3:50 3:40-3:55 3:45-4:00 4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAC WBIG WFOY WAGF WFDF WSPD WCPO WMFO KFIZ WKEU WGBF WGCM KFYO WFOR KFJM WMPS WTMV	1500 1200 1210 1310 1370 1210 560 1420 1240 1240 1210 1370 1310 1310 1340 1200 1370 1420 1370 1410 1370 1410 1410 1430	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Charles, La. Flint, Mich. Toledo, Ohio Cincinnati, Ohio Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind. Misslssippi City, Miss. Lubbock, Texas Louisville, Ky. Hattlesburg, Miss. Grand Forks, N. D. Memphis, Tenn. East St. Louis, Ill.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:35-4:50 4:40-4:55 4:55-5:10 5:00-5:15 5:05-5:20 5:10-5:25 5:15-5:30	WNBZ WSYR WBRE WBTM WNLC WGBB WHEC WTHT WMBQ WRAK WBOW WGNY WJBL KATE WKBB KARK WJIM WEXL KIUN KFJB KGIW WKGDE WHBF KGIW WKGDE WHBF KGFL WEMP	1290 570 1310 1370 1500 1210 1210 1370 1310 1200 1420 1500 1210 1310 1210 1310 1220 1230 1230 12	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn. Dubuque, Iowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. Pecos, Texas Marshalltown, Iowa Albuquerque, N. M. Marquette, Mich. Alamosa, Colo. Richmond, Ind. Fergus Falls, Minn. Rock Island, Ill.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:35-3:50 3:40-3:55 3:45-4:00 4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY WAGF KPLC WFDF WCPO WMFO WKFIZ WKEU WGBF WKFIZ WKEU WGBF KFIZ WKEU WGBF WKFIZ WKEU WGBF WFOR KFYO WAVE WFOR KFJM WMPS WTMV	1500 1200 1210 1310 1370 1210 560 1420 1240 1240 1370 1500 1370 1500 1340 1200 1340 1370 1340 1370 1410 1430 1430 1430 1500	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Charles, La. Fiint, Mich. Toledo, Ohlo Cincinnati, Ohlo Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind. Misslssippi City, Miss. Lubbock, Texas Louisville, Ky. Hattlesburg, Miss. Grand Forks, N. D. Memphis, Tenn. East St. Louis, Ill. Mandan, N. D.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:35-4:50 4:40-4:55 4:55-5:00 4:50-5:05 4:55-5:10 5:00-5:15 5:05-5:20 5:10-5:25 5:15-5:30 5:20-5:35	WNBZ WSYR WBRE WBTM WNLC WGBB WHEC WTHT WMBQ WRAK WBOW WGNY WJBL KATE WKBB KARK WJIM WEXL WHLB KIUN KFJB KGGM WBEO KGIW WKBV KGDE KHBF KGFL	1290 570 1310 1370 1500 1210 1430 1200 1500 1310 1210 1200 1420 1500 890 1210 1210 1230 1230 1230 1230 1230 123	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn. Dubuque, lowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. Pecos, Texas Marshalltown, Iowa Albuquerque, N. M. Marquette, Mich. Alamosa, Colo. Richmond, Ind. Fergus Falls, Minn. Rock Island, Ill. Roswell, N. Mex. Milwaukee, Wis. Price, Utah Rapid City, S. D.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:35-3:50 3:40-3:55 3:45-4:00 4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY WKAQ WFDF WSPD WCPO WMFO KFIZ WKEU WGBF WGCM KFYO WAVE WFOR WAVE WFOR WAVE WFOR WAVE WFOR	1500 1200 1210 1310 1310 1370 1210 560 1420 1200 1370 1370 1370 1370 1370 1370 1370 13	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Charles, La. Fiint, Mich. Toledo, Ohlo Cincinnati, Ohlo Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind. Mississippi City, Miss. Lubbock, Texas Louisville, Ky. Hattlesburg, Miss. Grand Forks, N. D. Memphis, Tenn, East St. Louis, Ill. Mandan, N. D. Pittsburgh, Pa.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:35-4:50 4:40-4:55 4:55-5:10 5:00-5:15 5:05-5:20 5:10-5:25 5:15-5:30	WNBZ WSYR WBRE WBTM WNLC WTHT WMBQ WRAK WBOW WGNY WJBL KATE WKBB KAKK WJIM WEXLL WHLB KIUN KFJB KGGM WBEO KGIW WKBV KGDE WHBF KGFL WEMP	1290 570 1310 1370 1500 1210 1430 1200 1370 1310 1210 1420 1500 1210 1310 1420 1200 1420 1200 1210 1310 1210 1210 1210 1210 1310 1210 12	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn. Dubuque, lowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. Pecos, Texas Marshalltown, Iowa Albuquerque, N. M. Marquette, Mich. Alamosa, Colo. Richmond, Ind. Fergus Falls, Minn. Rock Island, Ill. Roswell, N. Mex. Milwaukee, Wis. Price, Utah Rapid City, S. D. Harrisburg, Ill.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:45-4:00 3:55-4:10 4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:35-4:50 4:30-4:45	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKFOY WAGF KPLC WFDF WSPD WCPO WMFO KFIZ WKEU WGBF WGCM KFYO WAVE WFOR KFYOR WFOR KFJM WMPS WTMV KGCU KQV WBHP	1500 1200 1210 1310 1370 1210 560 1420 1200 1240 1440 1210 1370 1420 1370 1420 1370 1420 1370 1420 1370 1420 1370 1420 1370 1420 1370 1420 1370 1420 1370 1420 1370 1420 1370 1420 1420 1420 1420 1420 1420 1420 142	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Charles, La. Flint, Mich. Toledo, Ohlo Cincinnati, Ohlo Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind. Mississippi City, Miss. Lubbock, Texas Louisville, Ky. Hattlesburg, Miss. Grand Forks, N. D. Memphis, Tenn. East St. Louis, Ill. Mandan, N. D. Pittsburgh, Pa. Huntsville, Ala.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:35-4:50 4:40-4:55 4:55-5:00 4:50-5:05 4:55-5:10 5:00-5:15 5:05-5:20 5:10-5:25 5:15-5:30 5:20-5:35	WNBZ WSYR WBTM WNLC WGBE WHEC WTHT WMBQ WRAK WBOW WGNY WJBL KATE WKBB KARK WJIM WEXL WHLB KGGM WESU WKBC WKBP KGGE WKBP KGDE WKBP KGDE WCAT	1290 570 1310 1370 1210 1210 1210 1370 1370 1310 1210 1200 1420 1210 1310 1420 1230 1230 1210 1230 1210 1230 1210 1230 1210 1230 1210 1230 1210 1230 1210 1230 1210 121	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. B.ooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn. Dubuque, Iowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. Pecos, Texas Marshalltown, Iowa Albuquerque, N. M. Marquette, Mich. Alamosa, Colo. Richmond, Ind. Fergus Falis, Minn. Rock Island, Ill. Roswell, N. Mex. Milwaukee, Wis. Price, Utah Rapid City, S. D. Harrisburg, Ill. Sheridan, Wyo.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:35-3:50 3:40-3:55 3:45-4:00 4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY WAGF KPLC WFDF WCPO WMFO WKFIZ WKEU WGBF WFYO WKEU WGBF KFYO WKEU WGBF KFYO WAVE WFOR KFJM WMPS WTMV KGCU KQV WBHP KWOS	1500 1200 1210 1310 1370 1210 1370 1210 560 1420 1240 1240 1370 1500 1310 1340 1370 1340 1310 940 1310 940 1310 1430 1430 1430 1500 1380 1240 1380 1240	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Charles, La. Fiint, Mich. Toledo, Ohlo Cincinnati, Ohio Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind. Mississippi City, Miss. Lubbock, Texas Louisville, Ky. Hattlesburg, Miss. Grand Forks, N. D. Memphis, Tenn. East St. Louis, Ill. Mandan, N. D. Pittsburgh, Pa. Huntsville, Ala. Jefferson City, Mo.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:35-4:40 4:35-4:50 4:40-4:55 4:45-5:00 4:50-5:05 4:55-5:10 5:05-5:20 5:10-5:25 5:15-5:30 5:20-5:35 5:25-5:40 5:30-5:45	WNBZ WSYR WBTM WNLC WGBE WHEC WTHT WMBQ WRAK WBOW WGNY KATE WKBB KAKB WESL WHLB KGGM WGIW WKBV KGDE WHBF KGFL WEMP WEBQ KGTL WEBQ KGIW	1290 570 1310 1370 1500 1210 1430 1200 1370 1310 1210 1420 1500 1210 1310 1370 1230 1420 1200 1210 1310 1200 1210 1420 1200 1210 1210 1210 12	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn. Dubuque, lowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. Pecos, Texas Marshaltown, Iowa Albuquerque, N. M. Marquette, Mich. Alamosa, Colo. Richmond, Ind. Fergus Falls, Minn. Rock Island, Ill. Roswell, N. Mex. Milwaukee, Wis. Price, Utah Rapid City, S. D. Harrisburg, Ill. Sheridan, Wyo. Lamar, Colo.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:45-4:00 3:55-4:10 4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:35-4:50 4:30-4:45	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY WKAQ WFDF WSPD WCPO WMFO WMFO WKEU WGBF WGCM WKEU WGBF WGCM WFOR WFOR WFOR WFOR WHOR WHOR WHOR WHOR WHOR WHOR WHOR	1500 1200 1210 1310 1370 1210 560 1420 1200 1240 1440 1370 1500 1370 1500 1370 1500 1310 940 1370 1410 1430 1430 1430 1430 1430 1430 143	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Charles, La. Fiint, Mich. Toledo, Ohlo Cincinnati, Ohio Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind. Mississippi City, Miss. Lubbock, Texas Louisville, Ky. Hattlesburg, Miss. Grand Forks, N. D. Memphis, Tenn East St. Louis, Ili. Mandan, N. D. Pittsburgh, Pa. Huntsville, Ala. Jefferson City, Mo. Merdian, Miss.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:35-4:50 4:40-5:05 4:50-5:05 4:50-5:10 5:00-5:15 5:05-5:20 5:10-5:25 5:15-5:30 5:20-5:35 5:25-5:40 5:30-5:45 5:40-5:55	WNBZ WSYR WBRE WBTM WNLC WGBB WHEC WTHT WRAK WBOW WGNY WJBL KATE WKATE WKATE WKATE WKATE WKATE WHLB KIUN KFJB KIUN KFJB KIUN KGGW WBEO KGIW WGDE WHBF KGGM WBEO KGIW KGDE WHBF KGGM KGDE WHBF KGDE WHBF KGDE WHBF KEUB KEUB KEUB KEUB KEUB KEUB KEUB KEUB	1290 570 1310 1370 1500 1210 1430 1500 1370 1310 1200 1420 1500 1210 1370 1420 1230 1310 1420 1230 1310 1420 1230 1310 1420 1230 1230 1230 1230 1230 1230 1230 12	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn. Dubuque, lowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. Pecos, Texas Marshaltown, Iowa Albuquerque, N. M. Marquette, Mich. Alamosa, Colo. Richmond, Ind. Fergus Falls, Minn. Rock Island, Ill. Roswell, N. Mex. Milwaukee, Wis. Price, Utah Rapid City, S. D. Harrisburg, Ill. Sheridan, Wyo. Lamar, Colo. Grand Junction, Colo.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:35-3:50 3:45-4:00 3:50-4:05 3:55-4:10 4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:35-4:50 4:40-4:55	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKFOY WAGF KPLC WFDF WSPD WCPO WMFO KFIZ WGEF WGCM KFYO WAVE WFOR KFJM WMPS WTMV KGCU WBHP KWOS WCOC WGRC	1500 1200 1210 1310 1370 1210 560 1420 1200 1200 1310 1370 1440 1210 1370 1420 1370 1420 1370 1430 1370 1430 1430 1430 1430 1430 1430 1430 143	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Charles, La. Flint, Mich. Toledo, Ohlo Cincinnati, Ohlo Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind. Mississippi City, Miss. Lubbock, Texas Louisville, Ky. Hattlesburg, Miss. Grand Forks, N. D. Memphis, Tenn. East St. Louis, Ill. Mandan, N. D. Pittsburgh, Pa. Huntsville, Ala. Jefferson City, Mo. Meridian, Miss. New Albany, Ind.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:35-4:50 4:40-4:55 4:45-5:00 4:50-5:05 4:55-5:10 5:00-5:15 5:05-5:20 5:10-5:25 5:15-5:30 5:20-5:35 5:25-5:40 5:30-5:45 5:35-5:50 5:40-5:55 5:45-6:00	WNBZ WSYR WBTM WNLC WHEC WTHT WMBQ WRAK WBOW WGNY WJBL KATE WKBB KARK WJIM WEXL KIUN KFJB KGGM WESU WGDE WHBF KGFL WEMP KEUB WCAT KEUB WCAT KEUB WCAT	1290 570 1310 1370 1500 1210 1430 1500 1370 1310 1200 1420 1500 1210 1310 1420 1200 1210 1310 1420 1200 1210 1310 1420 1200 1210 1310 1420 1200 1210 1310 1420 1200 1210 1370 1420 1200 1210 1370 1420 1220 1230 1230 1230 1230 1240 1250 1	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. B.ooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn. Dubuque, Iowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. Pecos, Texas Marshalltown, Iowa Albuquerque, N. M. Marquette, Mich. Alamosa, Colo. Richmond, Ind. Fergus Falls, Minn. Rock Island, Ill. Roswell, N. Mex. Milwaukee, Wis. Price, Utah Rapid City, S. D. Harrisburg, Ill. Sheridan, Wyo. Lamar, Colo. Grand Junction, Colo. Springfield, Mo.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:55 3:45-4:00 3:50-4:05 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:35-4:50 4:40-4:55 4:40-4:55	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY WAGF KPLC WFDF WCPO WMFO WKFIZ WKEU WGBF KFIZ WKEU WGBF KFYO WAVE WKEU WGBF KFYO WAVE WGCM KFYO WAVE WFOR KFJM WMPS WGCM KGCU KQV WBHP KWOS WCOC KOTN	1500 1200 1210 1310 1370 1210 1370 1210 1210 1210 1200 1240 1440 1210 1370 1500 1340 1370 1340 1370 1410 1430 1410 1430 1430 1430 1430 143	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Charles, La. Flint, Mich. Toledo, Ohio Cincinnati, Ohio Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind. Misslssippi City, Miss. Lubbock, Texas Louisville, Ky. Hattlesburg, Miss. Grand Forks, N. D. Memphis, Tenn. East St. Louis, Ill. Mandan, N. D. Pittsburgh, Pa. Huntsville, Ala. Jefferson City, Mo. Meridian, Miss. New Albany, Ind. Pine Bluff, Ark.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:35-4:50 4:40-5:05 4:50-5:05 4:50-5:10 5:00-5:15 5:05-5:20 5:10-5:25 5:15-5:30 5:20-5:35 5:25-5:40 5:30-5:45 5:40-5:55	WNBZ WSYR WBRE WBTM WNLC WHEC WTHT WMBQ WRAK WBOW WGNY KATE WKBB KAKE WJIM WEXLL WHLB KGGM WGIW WKBV KGFL WEMP WCAT WEBQ WCAT WEBQ KGIW KGFL WEMP KGFL WEMP KGFL WEMP KGFL WEMP KGFL WEMP KGFL WEMP KGFL KGFL KGFL KGFL KGFL KGFL KGFL KGFL	1290 570 1310 1370 1500 1210 1430 1200 1370 1310 1210 1200 1420 1200 1420 1200 1210 1310 1210 1210 1210 1210 12	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn. Dubuque, Iowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. Pecos, Texas Marshalltown, Iowa Albuquerque, N. M. Marquette, Mich. Alamosa, Colo. Richmond, Ind. Fergus Falls, Minn. Rock Island, Ill. Roswell, N. Mex. Milwaukee, Wis. Price, Utah Rapid City, S. D. Harrisburg, Ill. Sheridan, Wyo. Lamar, Colo. Grand Junction, Colo. Springfield, Mo. Santa Fe, N. Mex.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:35-3:50 3:45-4:00 3:50-4:05 3:55-4:10 4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:35-4:50 4:40-4:55	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY WKFOY WKFU WGBF WCPO WMFO WMFO WMFO WMFO WMFO WMFO WMFO WMF	1500 1200 1210 1310 1370 1210 560 1420 1200 1200 1310 1370 1440 1210 1370 1420 1370 1420 1370 1430 1370 1430 1430 1430 1430 1430 1430 1430 143	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Charles, La. Flint, Mich. Toledo, Ohlo Cincinnati, Ohlo Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind. Mississippi City, Miss. Lubbock, Texas Louisville, Ky. Hattlesburg, Miss. Grand Forks, N. D. Memphis, Tenn. East St. Louis, Ill. Mandan, N. D. Pittsburgh, Pa. Huntsville, Ala. Jefferson City, Mo. Meridian, Miss. New Albany, Ind.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:35-4:40 4:35-4:50 4:40-4:55 4:45-5:00 4:50-5:05 4:55-5:10 5:05-5:20 5:10-5:25 5:15-5:30 5:20-5:35 5:25-5:40 5:30-5:45 5:35-5:50 5:45-6:00 5:50-6:05	WNBZ WSYR WBTM WNLC WGBY WNLC WGHEC WTHT WMBQ WRAK WBOW WGNY KATE WKBB KAKB WESL WHLB KGGM WESL WHLB KGGM WKBV KGDE WKBV KGDE WEMP KGFL	1290 570 1310 1370 1500 1210 1430 1200 1500 1310 1210 1420 1500 1210 1310 1310 1420 1200 1210 1320 1420 1200 1210 1310 1320 1420 1200 1210 1310 1420 1200 1210 1310 1310 1310 1420 1200 1210 1310 1310 1310 1310 1310 13	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn. Dubuque, lowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. Pecos, Texas Marshaltown, Iowa Albuquerque, N. M. Marquette, Mich. Alamosa, Colo. Richmond, Ind. Fergus Falls, Minn. Rock Island, Ill. Roswell, N. Mex. Milwaukee, Wis. Price, Utah Rapid City, S. D. Harrisburg, Ill. Sheridan, Wyo. Lamar, Colo. Grand Junction, Colo. Springfield, Mo. Santa Fe, N. Mex.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:30-3:45 3:35-3:50 3:40-3:55 3:45-4:00 3:50-4:05 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:35-4:50 4:40-4:55 4:40-4:55	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKAQ WBIG WFOY WAGF KPLC WFDF WCPO WMFO WKFIZ WKEU WGBF KFIZ WKEU WGBF KFYO WAVE WKEU WGBF KFYO WAVE WGCM KFYO WAVE WFOR KFJM WMPS WGCM KGCU KQV WBHP KWOS WCOC KOTN	1500 1200 1210 1310 1370 1210 560 1420 1240 1440 1210 1370 1500 1370 1500 1310 940 1370 1410 1430 1430 1430 1430 1430 1430 143	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Charles, La. Flint, Mich. Toledo, Ohlo Cincinnati, Ohlo Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind. Misslssippi City, Miss. Lubbock, Texas Louisville, Ky. Hattlesburg, Miss. Grand Forks, N. D. Memphis, Tenn. East St. Louis, Ill. Mandan, N. D. Pittsburgh, Pa. Huntsville, Ala. Jefferson City, Mo. Meridian, Miss. New Albany, Ind. Pine Bluff, Ark. St. Louis, Mo. Ironwood, Mich. Pueblo, Colo.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:35-4:50 4:40-4:55 4:45-5:00 4:50-5:05 4:55-5:10 5:05-5:20 5:10-5:25 5:15-5:30 5:20-5:35 5:25-5:40 5:30-5:45 5:30-5:45 5:30-6:05 5:40-5:55 5:45-6:00 5:50-6:05	WNBZ WSYR WBTM WNLC WGBB WHEC WTHT WRAK WBOW WGNBV WGJBL KATE WKBB KARK WJIM WHLL KIUN KFJB KGDE WHBF KGIW KGDE WHBF KGDE WHBF KGDE WHBF KGDE WHBF KGDE WKBV KGDE WKBV KGDE WKBV KEUB WKBV KEUB WKBV KEUB WKBV KEUB KWYO KIDW KFXJ KGBX KRQA	1290 570 1310 1370 1210 1210 1370 1310 1200 1420 1500 1210 1370 1310 1210 1370 1210 1370 1220 1310 1230 1310 1420 1230 1310 1420 1230 1210 1370 1210 1210 1200 1210 1370 1210 1200 1210 1200 1	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn. Dubuque, lowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. Pecos, Texas Marshalltown, Iowa Albuquerque, N. M. Marquette, Mich. Alamosa, Colo. Richmond, Ind. Fergus Falls, Minn. Rock Island, Ill. Roswell, N. Mex. Milwaukee, Wis. Price, Utah Rapid City, S. D. Harrisburg, Ill. Sheridan, Wyo. Lamar, Colo. Grand Junction, Colo. Springfield, Mo. Santa Fe, N. Mex. Saturday Muskegon, Mich.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:35-3:50 3:40-3:55 3:45-4:00 3:50-4:05 4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:40-4:55 4:45-5:00 4:50-5:05 4:55-5:10	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WBIG WFOY WAGF KPLC WFDF WSPD WCPO WMFO KFIZ WGBF WGCM KFYO WAVE WFOR KFJM WMPS WTMV KGCU WBHP KWOS WGRC KOTN WEW WJMS	1500 1200 1210 1310 1370 1210 560 1420 1200 1200 1370 1500 1310 1370 1500 1310 1340 1200 1370 1420 1370 1440 1210 1370 1420 1370 1420 1500 1310 1500 1310 1400 1310 1310 1310 1310 1310 13	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Charles, La. Filint, Mich. Toledo, Ohlo Cincinnati, Ohlo Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind. Mississippi City, Miss. Lubbock, Texas Louisville, Ky. Hattlesburg, Miss. Grand Forks, N. D. Memphis, Tenn. East St. Louis, Ill. Mandan, N. D. Pittsburgh, Pa. Huntsville, Ala. Jefferson City, Mo. Meridian, Miss. New Albany, Ind. Pine Bluff, Ark. St. Louis, Mo. Ironwood, Mich. Pueblo, Colo. Calumet, Mich.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:35-4:50 4:40-4:55 4:45-5:00 4:50-5:05 4:55-5:10 5:00-5:15 5:05-5:20 5:10-5:25 5:15-5:30 5:20-5:35 5:25-5:40 5:30-5:45 5:35-5:50 5:40-5:55 5:45-6:00 5:50-6:05	WNBZ WSYR WBTM WNLC WHEC WTHT WMBQ WRAK WBOW WGNY WJBL KATE WKBB KGIW KGIE WKBEO KGIW WKGDE WHBF KGFL KEUB WCAT KEUB WKBZ WJW	1290 570 1310 1370 1500 1210 1210 1370 1310 1210 1200 1420 1500 1210 1310 1420 1230 1230 1210 1310 1420 1230 1210 1310 1420 1230 1210 1310 1420 1230 1210 1310 1210 1310 1420 1230 1310 1420 1230 1310 1420 1210 1310 1420 1230 1310 1420 1230 1310 1420 1230 1310 1420 1230 1310 1	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. B.ooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn. Dubuque, Iowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. Pecos, Texas Marshalltown, Iowa Albuquerque, N. M. Marquette, Mich. Alamosa, Colo. Richmond, Ind. Fergus Falis, Minn. Rock Island, Ill. Roswell, N. Mex. Milwaukee, Wis. Price, Utah Rapid City, S. D. Harrisburg, Ill. Sheridan, Wyo. Lamar, Colo. Grand Junction, Colo. Springfield, Mo. Santa Fe, N. Mex. Saturday Muskegon, Mich. Akron, Ohio
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35 3:25-3:40 3:35-3:50 3:40-3:55 3:45-4:00 3:50-4:05 4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:30-4:45 4:40-4:55 4:45-5:00 4:50-5:05 4:55-5:10	WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP WFTC WKFO WFOF WFDF WSPD WCPO WMFO KFIZ WKEU WGBF WGCM KFYO WAGF WFOR KFYO WAOF WFOR WFOR WFOR WFOR WFOR WFOR WFOR WF	1500 1200 1210 1310 1370 1210 560 1420 1200 1240 1440 1500 1310 1370 1420 1370 1420 1370 1420 1370 1410 1370 1410 1370 1410 1370 1410 1370 1410 1370 1410 1370 1410 1370 1410 1370 1410 1370 1410 1370 1410 1370 1410 1410 1410 1410 1410 1410 1410 14	Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga. Miami, Fla. Ponce, P. R. Kinston, N. C. San Juan, P. R. Greensboro, N. C. St. Augustine, Fla. Dothan, Ala. Lake Charles, La. Flint, Mich. Toledo, Ohlo Cincinnati, Ohlo Decatur, Ala. Fond du Lac, Wis. Griffin, Ga. Evansville, Ind. Misslssippi City, Miss. Lubbock, Texas Louisville, Ky. Hattlesburg, Miss. Grand Forks, N. D. Memphis, Tenn. East St. Louis, Ill. Mandan, N. D. Pittsburgh, Pa. Huntsville, Ala. Jefferson City, Mo. Meridian, Miss. New Albany, Ind. Pine Bluff, Ark. St. Louis, Mo. Ironwood, Mich. Pueblo, Colo.	4:00-4:15 4:05-4:20 4:10-4:25 4:15-4:30 4:20-4:35 4:25-4:40 4:35-4:50 4:40-4:55 4:45-5:00 4:50-5:05 4:55-5:10 5:05-5:20 5:10-5:25 5:15-5:30 5:20-5:35 5:25-5:40 5:30-5:45 5:30-5:45 5:30-6:05 5:40-5:55 5:45-6:00 5:50-6:05	WNBZ WSYR WBTM WNLC WGBB WHEC WTHT WRAK WBOW WGNBV WGJBL KATE WKBB KARK WJIM WHLL KIUN KFJB KGDE WHBF KGIW KGDE WHBF KGDE WHBF KGDE WHBF KGDE WHBF KGDE WKBV KGDE WKBV KGDE WKBV KEUB WKBV KEUB WKBV KEUB WKBV KEUB KWYO KIDW KFXJ KGBX KRQA	1290 570 1310 1370 1210 1210 1370 1310 1200 1420 1500 1210 1370 1310 1210 1370 1210 1370 1220 1310 1230 1310 1420 1230 1310 1420 1230 1210 1370 1210 1210 1200 1210 1370 1210 1200 1210 1200 1	Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa. Terre Haute, Ind. Newburgh, N. Y. Decatur, Ill. Albert Lea, Minn. Dubuque, lowa Little Rock, Ark. Lansing, Mich. Royal Oak, Mich. Virginia, Minn. Pecos, Texas Marshalltown, Iowa Albuquerque, N. M. Marquette, Mich. Alamosa, Colo. Richmond, Ind. Fergus Falls, Minn. Rock Island, Ill. Roswell, N. Mex. Milwaukee, Wis. Price, Utah Rapid City, S. D. Harrisburg, Ill. Sheridan, Wyo. Lamar, Colo. Grand Junction, Colo. Springfield, Mo. Santa Fe, N. Mex. Saturday Muskegon, Mich.

3:50-4:05	WGAR	1450	Cleveland, Ohio
	WOLS	1200	Florence, S. C.
3:55-4:10	WCOL	1210	Columbus, Ohio
4.00 4.15	WLAK	1310	Lakeland, Fla
4:00-4:15	WCAZ	1070	Carthage, Ill.
4.05 4.00	WQBC	1360	Vicksburg, Miss.
4:05-4:20	WJBO	1120	Baton Rouge, La.
4:10-4:25	WSMK	1380	Dayton, Ohio
7.10-4.20	WOMT WTAL	1210	Manitowoc, Wis.
4:15-4:30	WNEL	$\frac{1310}{1290}$	Tallahassee, Fla.
4.10-4.50	WOSU	570	San Juan, P. R. Columbus, Ohio
4:20-4:35	WDZ	1020	Tuscola, Ill.
1120 1100	WMSD	1420	Muscle Shoals, Ala.
4:25-4:40	WGTM	1310	Wilson, N. C.
1120 1110	WHBU	1210	Anderson, Ind.
4:30-4:45	WJBW	1200	New Orleans, La.
	WKBN	570	Youngstown, Ohlo
4:35-4:50	WGPC	1420	Albany, Ga.
	WNAD	1010	Norman, Okla.
	WXYZ	1240	Detroit, Mich.
4:40-4:55	KOVC	1500	Valley City, N. D.
	WTAX	1210	Springfield, Ill.
	WTJS	1310	Jackson, Tenn.
4:45-5:00	KLCN	1290	Blytheville, Ark.
	WMBR	1370	Jacksonville, Fla.
	WMPC	1200	Lapeer, Mich.
4:50-5:05	KGCA	1270	Decorah, Iowa
4:55-5:10	KOCA	1210	Kilgore, Texas
	KVOL	1310	Lafayette, La.
5:00-5:15	KBIX	1500	Muskogee, Okla.
	WBNO	1200	New Orleans, La.
5:05-5:20	KPAC	1260	Port Arthur, Tex.
5:10-5:25	KANS	1210	Wichita, Kans.
F-1 F F-00	WROL	1310	Knoxville, Tenn.
5:15-5:30	KMLB	1200	Monroe, La.
T-00 T-05	KTRH	1290	Houston, Texas
5:20-5:35	KLPM	1240	Minot, N. D.
5:25-5:40 5:30-5:45	KVSO KWLC	1210	Ardmore, Okla.
5:35-5:50	KTSM	1270	Decorah, Iowa El Paso, Texas
5:40-5:55	KWTN	1310 1210	Li Paso, 1 exas
5:45-6:00	WLB	1250	Watertown, S. D.
5:50-6:05	KOBH	1370	Minneapoils, Minn. Rapid City, S. D.
5:55-6:10	KPFA	1210	Helena, Mont.
6:00-6:15	KIT	1250	Yakima, Wash.
6:05-6:20	KGBU	900	Ketchikan, Alaska
6:10-6:25	KFJI	1210	Klamath Falls, Ore.
6:15-6:30	KGEZ	1310	Kalispell, Mont.
6:20-6:35	KGVO	1260	Missoula, Mont.
6:25-6:40	KGY	1210	Olympia, Wash.
6:30-6:45	KXRO	1310	Aberdeen, Wash.
6:35-6:50	KGCX	1450	Wolf Point, Mont.
6:40-6:55	KFIO	1120	Spokane, Wash.
6:45-7:00	KINY	1310	Juneau, Alaska
6:50-7:05	KFQD.	780	Anchorage, Alaska
6:55-7:10	KRLC	1390	Lewiston, Idaho
			,

ELEVEN radio fans met at the home of Jack Siringer on April 3, and voted unanimously to form a radio club, to be known as the CLEVELAND RADIO CLUB. The following were elected temporary officers:

President, Herbert Tucker; Vice-President, Arthur J. Parfitt; Secretary, Jack Siringer.

The group decided to hold meetings on the first Sunday of every month, at the homes of various mem-

The MONTH'S CHANGES in Station Data

NEW

		LA C. AA				
600	XEOJ					
1080	CMJQ	Camaguey, Cuba.				
1230	XEAZ	Zacatecas, Zac.				
1320	XEAU	Tijuana, B. Cfa.				
1420	KDNT	Denton, Tex. Harwell V. Shepard				
	KRIC	Beaumont, Tex. Beaumont Brdcstg.				
1500	KPAB	Laredo, Tex. Mervel M. Valentine				
	KVNU	Logan, Utah. Cache Valley Brdcstg				
		Co.				
		FREQUENCY				
1305	TG1	Guatemala City, Guat., from 1510				
		LOCATION				
620	WFLA	Tampa, Fla., from Clearwater				
	NETWORK					
900	KSEI	Pocatello, Idaho, new NBC				
1210	WBAX	Wilkes Barre, Pa., new MBS				
1240	KTFI	Twin Falls, Idaho, new NBC				

bers, until a permanent meeting place can be arranged. All DXers in the Cleveland area are invited to join. Call RADEX, Lakewood 8667, for further details.



Kay Thompson and her trio are featured on the new show known as "Monday Night Show," heard on the CBS on Mondays at 8 pm, EDST.

The SHORTWAVE STATIONS of the WORLD

Shortwave List Copyright 1938 by Page Taylor

In this index of the shortwave stations of the world, only stations which use voice are listed.

Frequencies are given in kilocycles per second. To change to megacycles, place a decimal point three digits to the left.

The studio locations are shown, and the location of the transmitter, when different from the studios, follows in parentheses.

Power is shown in watts, unless kilowatts (kw) is mentioned.

Following the power value, the symbols in parentheses indicate the type of station, as follows:

A—Airway Em—Emergency
B—Broadcast F—Forestry
C—Commercial LH—Lighthouse
Phone P—Police
CG—Coast Guard R—Relay
E—Experimental SS—Ship Phone

The word DRIFTS indicates that the

station is in the habit of shifting from its assigned frequency.

Abbreviations for identification aids are—Int. (Interval signal); s/o (sign-off); Ann (announcements); Add (Address); Hrs (Hours).

Du—Dutch
Eng—English
Fr—French
Ger—German
It—Italian

Jap—Japanese Port—Portugese Ru—Russian Sp—Spanish

Add: Furness Bermude

Unconfirmed stations, those under construction, and stations operating off their assigned frequencies, are given in *italics*.

****Asterisks indicate that the complete list of stations is given in another index.

All stations listed will verify for return postage unless otherwise noted. Return postage can be sent to foreign countries in the form of International Reply Coupons, available at any post office for nine cents each. (X) means the station will not verify.

3500				
to		AMATEURS		
400 0			4413	• • • • • •
4002	CT2AJ	Ponta Delgada, Azores (B)		
4098	WND	(X) Hialeah, Fla. 400. (C).		
	~	Phones Bermuda.		
4107	HCJB	Quito, Ecuador. 1000. (B).		
		"Broadcasting Provincial."		
		Add: Clarence W. Jones, Casilla 691. Hrs: Dally exc. Mon., 7-		
		8:15 a.m.; 11:30 a.m2:30 p.m.;		
		4:45-10:15 p.m.		
4110	****	Trans-Western Airlines		
4123	***	Southern Airlines		
4135	KBAY	Ogden, Utah. (F)		
1100	KBAZ	Ogden, Utah. (F)		
4178	woo	(X) Ocean Gate, N. J. 20 kw.		
		(SS)		
4230	HRX4	La Lima, Honduras. (C)		
	WKF	(X) Lawrenceville, N. J. (C)		
4273	RV15	Khabarovsk, U.S.S.R. 20 kw.		
		(B). Hrs: 4-10 a.m.		
4280	• • • • • •	Italian Ships; Phone IAC and		
		WOO; Add: Italian Lines, 1 State St., New York, N. Y.		
		IBEJ S. S. "Conte Rosso"		••••
1		IBGI S. S. "Conte Verde"		
		IBLI S. S. "Conte di Savoia"		
		ICEJ S. S. 'Rex'		
4295	WTDV	CharlotteAmalie, Virgin Islands.		
		250. (Em)		
	WTDW	St. Croix, V. I. 250. (Em)		
	WTDX	St. John, V. I. 250. (Em)		
4335		United Airlines		
4355	VFN	Montreal, P. Q. (A). Dominion		
	-	Skyways, Ltd.		
4390	FNSK	S.S. 'Normandie.'' (SS). Works Parls. French Lines, Pier 88.	4420	ZMBJ
		Foot of 48th St., NYC.	7120	ZIVIDO
	NAA	Arlington. Va. Time signals at		
	MAA	9:55 a.m. and 9:55 p.m.	4430	VQJP
4410	FNSK	S. S. "Normandle." (SS). Works		
1110	11.011	WOO. See 4390 kcs. for Add.		
	WIEA	S. S. "Manhattan." 400. (SS).	4436	$\mathbf{v}\mathbf{p}\mathbf{o}$
		Add: Pier 59, North River, NYC		
4412	VQJM	S. S. "Monarch of Bermuda."		

		(SS). Add: Furness-Bermuda
		Lines.
4413	• • • • •	British Ships. Work with GBC
		and WOO. Add: International
		Marine Radio, Conneaut House,
		63 Aldwych, London WC2.
		GBZW S. S. "Berengaria."
		GDLJ S. S. "Homeric" GFWV S. S. "Majestic"
		GFWV S. S. "Majestic"
		GLRZ S. S. "Aquitania"
		GMBJ S. S. "Empr. of Britain"
	• • • • • •	French Ships. Work WOO. Add:
		French Lines, Pier 57, Hudson
		River, NYC.
		FNSM S. S. "Paris"
		FNTQ S. S. "Ile de France"
	• • • • •	German Ships. Work DAF and
		WOO. Add: North German Lloyd, Pier 42. North River,
		Lloyd, Pier 42, North River,
		Morton St., NYC.
		DDBR S. S. "Berlin"
		DDCP S. S. "Cap Polonio"
		DDFF S. S. "Reliance" DDFT S. S. "Oceana"
	• • • • • •	German Ships. Work DAF and WOO. Add: Hamburg America
		Lines, Pier 86, North River,
		W. 46th St., NYC
		DHAO S. S. "Hansa" DHEY S. S. "Deutschland"
		DHLY S.S. Dedtschland DHJZ S.S. "Hamburg"
		DHRL S. S. "New York"
		German Ships. Add: North
		German Lloyd, Pier 4, Foot of
		58th St., Brooklyn, N. Y.
		DOAH S. S. "Bremen"
		DOAI S. S. "Europa"
4490	ZMBJ	T, S. S. "Awatea." 300 w. (SS)
7720	CHIDO	Add: Union S. S. Co. of New
		Zealand, Ltd., Auckland.
4430	VQJP	S. S. 'Queen of Bermuda.'' (SS)
*100	1 COL	Works WOO and ZFA. Add:

Furness-Bermuda Lines.

Seymour St.

Vancouver, B.C.400.(C).Add: North-West Telephone Co., 768

4465	CFA2	Drummondville, P. Q. (C).	500	0 TFL	Daulstandle v
		Canadian Marconi Co., Box 1690, Montreal, P. Q.	200	wwv	Reykjavik, Iceland Beltsville, Md. I kw. Standard
45 00	CZ5K	Shaboygama, P. Q. (A). Dominion Skyways, Ltd.			frequency transmissions Tues., Wed., Fri., 2:30-3:30 p.m. Add: Nat'l Bureau of Standards.
.4512	ZFS	Nassau, Bahamas. (C). Works WNC. Add: Supt. of Telegraphs,	500	3 нст	Washington, D. C.
4550	WDN	Central Bay St., Nassau, N. P. (X) Rocky Point, N. Y. (C)	502		"Radio Telefonica"
4600		(X) Guayaquil, Ecuador. (B). Int: 12 chimes.	503		(X) Hamilton, Bermuda. 1500 w. (C) (X) Ocean Gate, N. J. 20 kw.
4610	KBEN	Juneau, Alaska. (F) Juneau, Alaska. (F)	504		(C) Braniff Airlines
	KBEO	Juneau, Alaska. (F) Juneau, Alaska. (F)	507		(X) Lawrenceville, N. J. (C)
	KMYA	Patrol Boat "Forester." (F)	5123 5138		United Airlines
***	KMYB	Patrol Boat "Ranger 10." (F)	0100	, man	Egavik, Alaska. 25 w. (C). R. B. Julian. Hrs: days
$\frac{4650}{4690}$		Braniff Airlines American Airlines		KAMX	Utopia Creek, Aaa. 40 w. (C),
4736				LT A NID	L. McGee. Hrs: days
4740	****	Southern Airlines		KANR	Kalskag, Aaa. 20 w. (C). Fred H. Whitcher. Hrs: days
4745	****	Southern Airlines		KASI	Alatna, Aaa. 20 w. (C). Sam
4753	WOO	(X) Ocean Gate, N. J. 20 kw. (SS)			Dubin. Hrs: days
4755	CFU	Rossland, B. C. (C). Consolidated Mining & Smelting Co.,	F107	****	Folger, Aaa. 40 w. (C). Odin Strandberg.
		Ltd.	5165	****	Pan American Alrways
4760	HJIABJ		520 0		Pacific Alaska Airways Kabul, Afghantstan (C)
		(B). "La Voz de Santa Marta,"	5207		Umnak, Alaska. (C)
		Owner: Julio A. Sanchez T. Hrs: 11:30 a.m2 p.m.; 5:30-10:30 p.m.		KAJJ	Atka, Aaa. (C)
4780	HJIABB	Barranquilla, Colombia. 300w.	5310	KAQF	Unalaska, Aaa. (C) Southern Alrlines
		(B). "La Voz de Barranq."	5330		La Lina, Honduras. (C)
		Relays HJ1ABA. Int: 3 chimes. Add: Aptdo. 715.	5375		Pacific Alaska Airways
4787	HJ7ABC		5378	****	Pan American Airways
		"La Voz de Cucuta."	5405		Northwest Airlines Pan American Airways
4797	W9XAM	Elgin, Ill. Time signals at 8:55,	5415	PMY	Bandoeng, Java, N.E.I. 450 w.
		9:55 and 10:55 a.m. and 12:55 p.m. daily exc. Sunday.			(B) Add: Bandoengsche Radio
4800	HJIABE	Cartagena, Colombia. (B). Add:	5480	XTL	Vereeniging. Hrs: 5:30-10 a.m. Hankow, China. (C)
		Aptdo. 31. Hrs: 7 a.m1:30 p.m.;	5500		San Ramon, Costa Rica. 200 w.
4810	YDE2	4-11 p.m. Solo, Java, N.E.1. 100 w. (B).	5573		United Air Lines
		A NIROM station.	5583 5593		United Airlines United Airlines
4820	GDW	Rugby, Gt. Britain. (C). Works	5603		American Airlines
		NYChights Add :G.P.O. (Radio.	5613		American Airlines
		Section), Armour House, St. Martin's le Grand, London EC1	5632 5653	****	American Airlines
4840	HJ3ABD	Bogota, Colombia. (Barrio Ola-	0000	****	Southern Airlines Trans Western Airlines
		ya). 1 kw. (B). s, o: "Para ti	5 663	****	United Airlines
		Rio Rita." and nat'l anthem. Add: Colombia Broadcasting.	5673	****	Trans Western Airlines
		Aptdo. 509. Hrs: 9 a.m2 p.m.;	5683 5693	****	Braniff Airlines Pacific Alaska Airways
44.00	(7710	6 p.mmidnight.	0000	****	Trans Western Airlines
4860	CYS	Schumaker, Ont. (A). Dominion Skyways, Ltd.	5708	****	Southern Airlines
	CZ5K	Shaboygama, P. Q. (A). D.S.L.	5710 5730	TGS JVV	Guatemala City, Guat. 200 w. (B)
	CZ5L	Mud Lake, Ont. (A). D.S.L.	,		Nazaki, Japan. 10kw. (C). Add: Kokusai Denwa Kaisha, Osaka
	CZ5M CZ9U	Rouyn, P. Q. (A). D.S.L. St. Felicien, P. Q. (A). D.S.L.			Bldg., Tokyo
	VOWM	Northwest River, Labrador.	5 735	HCIPM	Quito, Ecuador. (B). "El
		(A). Newfoundland Skyways,			Palomar" Add: J. Leonardo Ponce, Aptdo. 664. Hrs: Sat.
ACRE	111/4	Ltd.			9-11 p.m.
4865	A.DO	Vancouver, B. C. 400 w. (C). North-West Telephone Co., 768	5 755	YV2RA	San Cristobai, Venez. 1 kw. (B).
		Seymour St.			"La Voz del Tachira" or "La Emisora de Fidelidad Real."
4880	HJ4ABP	Medellin, Colombia. 2500 w.			Relays YV1RB. s/o: "El Capi-
		(B). "Emisora Philco." Relays HJ4ABQ. Hrs: 6-11 p.m.			tan March." Add: Aptdo 37.
4900	нјзавн	Bogota, Colombia. 1200 w. (B),			Hrs: 11:30 a.m12:30 p.m.; 5:45-
		"La Voz de la Victor." s/o:	5 758	YNOP	9:30 p.m. Managua, Nicaragua. (B).
		"Russian Luilaby." Add: Aima-			"Radiodifusora Bayer." Hrs:
		cenes Victor, Aptdo 565. Hrs: 6-11 p.m.			8-9:30 p.m. Unused USA stamps
4918	****	American Airlines	577 0	TG25	for verification. Mobile in Guatemala. (C)
4938	****	Trans Western Airlines	5 790	JVU	Mobile in Guatemala. (C) Nazaki, Japan. 10 kw. (C),
4948	****	Trans Western Airlines			Add: JVV on 5730 kcs.
4953 4968	****	Trans Western Airlines Trans Western Airlines	5800	YV5RC	Caracas, Venez. 1 kw. (B).
		Rugby, Gt. Britain. 5 kw. (88).			"Radio Caracas." Relays YV5RA. s/o: "March 1BC."
		Add: See GDW 4820 kcs.			Add: Aptdo 2009. Hrs: Sun.

		\$:30-11:30 a.m.; 3:30-9:30 p.m.	5975	OAX4P	Huancayo, Peru. 250 w. (B).
2010	TIODUIA.	Weekdays, 6:30 a.m10:30 p.m.			"Radio Andina Junin." Add: J. Alberto Maduano, Cusco 25.
	CEC	San Jose, Costa Rica Santiago, Chile. (La Granja).	5997	C82WD	Lishon, Portugal (B), "Radio Renascena,"
		Add: Cia. Internacional de Radio, Casilla 16-D.	6000	CXA2	Montevideo, Uruguay (Saya- go) 5 kw (B) Add; Cia de
5825	TIGPH	and TINGP-3 San Jose, Costa Rica, (B), "Alma Tica," Add: Aptdo 800.			Radiopublicidad Continental, J. C. Gomes 1431. Hrs: 10 s.m
5830	TDD	Shinkio, Manchukuo. 20 kw. (C) Manchukuo Telephone & Tele- graph Co.		RV59 NEBT	Mascare, U.S.S.R. Mexico City, D. F., 500 w. (B) Int: cuckoo soc. "Liebess
5850	WOB YVIRB	(X) Lawrenceville, N. J. (C) Maracalbo, Venez. (Las Delici- as). 300 w. (R). "Ecos del			traume " Add: El Ruen Tone, S.A., Aprdo 79-44 Hrs: 10 a.m midnt.
		Zulla." Relays YVIRA. Int: gong and xylophone so: "Strike Up the Band." Add:			Tananarire, Madagastar Alderney, Channel Islands, Add: Alderney, Radio, 1 td.
		Aptdo, 37, Hrs; Sun., 830 a.m 2 p.m.; 3:30-9:30 p.m. Weekdays 5:45-9:45 a.m.; 10:30 a.m1:45 p.m.; 3:30-10:45 p.m.	6005	CFCX	Montreal, P. Q. 75 w. 10 Relays CFCF, Add. Canadian Marconi. Co., Ltd., 1231 St. Catherine St., Montreal. 1178.
5855	HIIJ	San Pedro de Macoris, D. R. 40 w. (B). Add: Fausto M. Donas- torg, Aptdo. 204.		нгък	7 a.mmidnight Colon, Panama (R) "La Vor de la Victor." Add: Aptdo 33 Hrs: 6-11 p.m.
5875	HRN	Tegucigalpa, Honduras, 500 w, (B), "La Voz de Honduras," Int: notes from nat'l anthem,		VE2DN	Montreal, P. Q. (Drummondville) & kie. (B) Relays CFCF Add. See CFCV above.
		s of "Goodnight Walta." Ann: Eng., Sp. Hrs: 7-10:30 p.m.		XZIGY	Rangoon, Burma Add: 15th Mile Prome Road
5880	IUA ZEA	Addis Ababa, Ethiopia (C) Salisbury, Southern Rhodesia, (C), Add: Box 792, G.P.O.	6007	ZRH	Tretoria, Union of So Africa Roberts Heights) 5 km (B) Opens, bugle call Ann 'Johan-
5885	HI9B	Santiago de los Caballeros, D. R. 200 w. (B), "Broadcasting Hotel Mercedes." s o: Nat'l anthem. Add: Aptdo 95. Hrs: 11:45 a.m 2:15 p.m.: 4:45-7:45 p.m.			nesburg calling Add: So African Brdestg Corp., Box 4559, Johannesburg. Hrs Sat. 10 a.m4:45 p.m. Sun. S.an. noon: 12:15-3:15 p.m. Other
5888	****	American Airlines Braniff Airlines		m 2: 420	days 10 a m4 p.m.
	****	North West Airlines	6010	CICZ	Sydney, N.S. Ikw. (B) Relays
5890	JIC	Taihoku, Taiwan. (C)			CJCB. Add: Fastern Broad-
5890 5895	JIC YV3RA	Taihoku, Taiwan. (C) Saipon, French Indo-China. (B) Barquisimeto, Venes. (B), "La Vos de Lara." Relays YV3RB.		Coco	casters, Ltd., Radio Bidg. Havana, Cuba 2500 w. (B). Relays CMCK Add: Luis
5895		Taihoku, Taiwan. (C) Salgon, French Indo-China. (B) Barquisimeto, Venes. (B). "La Vos de Lara." Relays YV3RB. Hrs: 6-10 p.m. Mafeking, Bechuanaland. 250 w.		COCO OLR2A	casters, Ltd., Radio Bidg., Havana, Cuba 2500 w., (B), Relays CMCK Add: Luis Casas R., Box 98, Hrs: 4-10 p.m., Prague, Czechoslovakia, (Pode- brady), 35 kw. (B)
5895	YV3RA	Taihoku, Taiwan. (C) Saigon, French Indo-China. (B) Barquisimeto, Venes. (B). "La Vos de Lara." Reiays YV3RB. Hrs: 6-10 p.m. Mafeking, Bechuanaland. 250 w. (C). 6-7 s.m.; 1-2:30 p.m. San Jose, Costa Rica. (B). Add:			casters, Ltd., Radio Bidg., Havana, Cuba 2500 w. (B). Relays CMCK Add: Lula Casas R., Box 98, Hrs: 4-10 p.m. Prague, Czechoslovakia, (Pode- brady), 35 kw. (B) Recife (Pernambuco) Brazil, 5 kw. (B) "A Vox do Norte,"
5895 5900	YV3RA ZNB	Taihoku, Taiwan. (C) Salpon, French Indo-China. (B) Barquisimeto, Venes. (B). "La Vos de Lara." Relays YV3RB. Hrs: 6-10 p.m. Mafeking, Bechuanaiand. 250 w. (C). 6-7 a.m.; 1-2:30 p.m. San Jose, Costa Rica. (B). Add: Aptdo. 3 Valencia. Venez. (B). "Radio Valencia." Relays YV4RB. Hrs:		OLR2A	casters, Ltd., Radio Bidg. Havana, Cuba 2500 w. (B). Relays CMCK Add: Lula Casas R., Box 98, Hrs: 4-10 p.m. Prague, Czechoslovakia, (Pode- brady), 35 kw. (B) Recife (Pernambuco) Brazil, 5 kw. (B) "A Vox do Norte." Int: time signal at noon and 7 p.m. Brazil Time, a o: Nat'l anthem, Ann: Eng., Port, Add:
5895 5900 5905 <i>6918</i>	YV3RA ZNB TILS	Taihoku, Taiwan. (C) Salgon, French Indo-China. (B) Barquisimeto, Venes. (B). "La Vos de Lara." Relays YV3RB. Hrs: 6-10 p.m. Mafeking, Bechuanaland. 250 w. (C). 6-7 s.m.; 1-2:30 p.m. San Jose, Costa Rica. (B). Add: Aptdo. 3 Valencia. Venez. (B). "Radio Valencia." Relays YV4RB. Hrs: 6 p.m1 a.m. Port-au-Prince, Haiti. (B). Add: Societe Haltienne de Radio- diffusion. Boite Postal 103.		OLR2A PRAS	casters, Ltd., Radio Bidg. Havana, Cuba 2500 w. (B). Relays CMCK Add: Lula Casas R., Box 98, Hrs: 4-10 p.m. Prague, Czechoslovakia, (Pode- brady), 35 kw. (B) Recife (Pernambuco) Brazil, 5 kw. (B) "A Vox do Norte." Int: time signal at noon and 7 p.m. Brazil Time. s. o. Nat'l
5895 5900 5905 6913 5925	YV3RA ZNB TILS YV4RH	Taihoku, Taiwan. (C) Salpon, French Indo-China. (B) Barquisimeto, Venes. (B). "La Vos de Lara." Relays YV3RB. Hrs: 6-10 p.m. Mafeking, Bechuanaiand. 250 w. (C). 6-7 a.m.; 1-2:30 p.m. San Jose, Costa Rica. (B). Add: Aptdo. 3 Valencia. Venez. (B). "Radio Valencia." Relays YV4RB. Hrs: 6 p.m1 a.m. Port-au-Prince, Haiti. (B). Add: Societe Haltienne de Radio- diffusion. Boite Postal 103. Hrs: 7-10 p.m. Maracaibo, Venez. 300 w. (B). "Radio Popular". Relays YV1RK. s/o: "National Em- biem March." Ann: Eng. 8p. Add: Sr. Jose A. Higuera M.	6015	OLR2A	casters, Ltd., Radio Bidg. Havana, Cuba 2500 w. (B). Relays CMCK Add: Luia Casas R., Box 98. Hrs: 4-10 p.m. Prague, Czechoslovakia. (Pode- brady). 35 kw. (B) Recife (Pernambuco) Brazil. 5 kw. (B) "A Vox do Norte." Int: time signal at noon and 7 p.m. Brazil Time. a.o. Nat'l anthem. Ann: Eng., Port. Add: Radio Club do Pernambuco, Avenida Cruz Cabuga 394. Hrs: 9 a.mnoon: 1-3 p.m.: 4-9 p.m. Salgon, French Indo-China (B) Santiago de los Caballeros, D. R. 125 w. (B). "La Vox del Comer- cio." a o: "Maria la O" on or- gan, and nat'l anthem. Add: Moises Franco y Franco, Apido
5895 5900 5905 6913 5925 5935	YV3RA ZNB TILS YV4RH HH2S	Taihoku, Taiwan. (C) Salgon, French Indo-China. (B) Barquisimeto, Venes. (B). "La Vos de Lara." Relays YV3RB. Hrs: 6-10 p.m. Mafeking, Bechuanaiand. 250 w. (C). 6-7 a.m.: 1-2:30 p.m. San Jose, Costa Rica. (B). Add: Aptdo. 3 Valencia. Venez. (B). "Radio Valencia." Relays YV4RB. Hrs: 6 p.m1 a.m. Port-au-Prince, Haiti. (B). Add: Societe Haltienne de Radio- diffusion. Boite Postal 103. Hrs: 7-10 p.m. Maracaibo, Venez. 300 w. (B). "Radio Popular". Relays YV1RK. s/o: "National Em- biem March." Ann: Eng. Sp. Add: Sr. Jose A. Higuera M, Aptdo. 247. Hrs: 5-10:30 p.m. Willemstad, Curacao, Nether- land Antilles. 150 w. (B). "Ra- dio Curom." Add: Curacaosche Radio Vereeniging, Emmastad.	6015	OLR2A PRAS	casters, Ltd., Radio Bidg. Havana, Cuba 2500 w. (B). Relays CMCK Add: Lula Casas R., Box 98, Hrs: 4-10 p.m. Prague, Czechoslovakia, (Pode- brady). 35 kw. (B) Recife (Pernambuco) Brazil. 5 kw. (B) "A Vox do Norte." Int: time signal at noon and 7 p.m. Brazil Time. a o: Nat'l anthem. Ann: Eng., Port. Add: Radio Club do Pernambuco, Avenida Cruz Cabuga 394 Hrs: 9 a.mnoon: 1-3 p.m.: 4-9 p.m. Salgon, French Indo-China (B) Santiago de los Caballeros, D. R. 125 w. (B). "La Voz del Comer- cio." a o: "Maria la O" on or- gan, and nat'i anthem. Add: Moises Franco y Franco, Apido 23. Hrs: 7:15-9:45 a.m. 11.45 a.m1:45 p.m 4:45-6:45 p.m. Bogota, Colombia. 1 kw. (B). "La Voz de Colombia." Int: notes from nat'i anthem. « o:
5895 5900 5905 6913 5925 5935	YV3RA ZNB TILS YV4RH HH2S	Taihoku, Taiwan. (C) Salgon, French Indo-China. (B) Barquisimeto, Venes. (B). "La Vos de Lara." Relays YV3RB. Hrs: 6-10 p.m. Mafeking, Bechuanaiand. 250 w. (C). 6-7 a.m.: 1-2:30 p.m. San Jose. Costa Rica. (B). Add: Aptdo. 3 Valencia. Venez. (B). "Radio Valencia." Relays YV4RB. Hrs: 6 p.m1 a.m. Port-au-Prince, Haiti. (B). Add: Societe Haltienne de Radio-diffusion. Boite Postal 103. Hrs: 7-10 p.m. Maracaibo, Venez. 300 w. (B). "Radio Popular". Relays YV1RK. s/o: "National Em- biem March." Ann: Eng. 8p. Add: Sr. Jose A. Higuera M, Aptdo. 247. Hrs: 5-10:30 p.m. Willemstad. Curacao, Nether- land Antilles. 150 w. (B). "Ra- dio Curom." Add: Curacaosche	6015	OLR2A PRAS	casters, Ltd., Radio Bidg. Havana, Cuba 2500 w. (B). Relays CMCK Add: Luis Casas R., Box 98. Hrs: 4-10 p.m. Prague, Czechoslovakia. (Pode- brady). 35 kw. (B). Recife (Pernambuco) Brazil. 5 kw. (B) "A Vox do Norte." Int: time signal at noon and 7 p.m. Brazil Time. a.o. Nat'l anthem. Ann: Eng., Port. Add: Radio Club do Pernambuco, Avenida Cruz Cabuga 394. Hrs: 9 a.mnoon: 1-3 p.m.: 4-9 p.m. Saison, French Indo-China (B). Santiago de los Caballeros, D. R. 125 w. (B). "La Voz del Comer- cio." a.o.: "Maria la O" on or- gan, and nat'l anthem. Add: Moises Franco y Franco, Apido 23. Hrs: 7:15-9:45 a.m., 11.45 a.m1:45 p.m., 445-6:45 p.m. Bogota, Colombia. 1 kw. (B). "La Voz de Colombia." Int: notes from nat'l anthem. a.o.: "Indian Love Call." Add: Apido 2665. Hrs: Sun., noon- 1:30 p.m., 6-11 p.m. Weekdays, 10:30 a.m2 p.m.; 5:30-11 p.m.
5895 5900 5905 6918 5925 5935 5940	YV3RA ZNB TILS YV4RH HH2S YV1RL PJC1 TG2X	Taihoku, Taiwan. (C) Salgon, French Indo-China. (B) Barquisimeto, Venes. (B). "La Vos de Lara." Relays YV3RB. Hrs: 6-10 p.m. Mafeking, Bechuanaiand. 250 w. (C). 6-7 a.m.: 1-2:30 p.m. San Jose, Costa Rica. (B). Add: Aptdo. 3 Valencia. Relays YV4RB. Hrs: 6 p.m1 a.m. Port-au-Prince, Haiti. (B). Add: Societe Haltienne de Radio- diffusion. Boite Postal 103. Hrs: 7-10 p.m. Maracaibo, Venes. 300 w. (B). "Radio Popular". Relays YV1RK. s/o: "National Em- biem March." Ann: Eng. Sp. Add: Sr. Jose A. Higuera M, Aptdo. 247. Hrs: 5-10:30 p.m. Willemstad, Curacao, Nether- land Antilles. 150 w. (B). "Ra- dio Curom." Add: Curacaosche Radio Vereeniging, Emmastad. Hrs: 6:35-8:35 p.m. Guatemala City, Guat. 200 w. (B). "Policia Nacional." Add:	6015	OLR2A PRAS	casters, Ltd., Radio Bidg. Havana, Cuba 2500 w. (B). Relays CMCK Add: Lula Casas R., Box 98, Hrs: 4-10 p.m. Prague, Czechoslovakia, (Pode- brady). 35 kw. (B) Recife (Pernambuco) Brazil. 5 kw. (B) "A Vox do Norte." Int: time signal at noon and 7 p.m. Brazil Time. a of Nat'l anthem. Ann: Eng., Port. Add: Radio Club do Pernambuco, Avenida Cruz Cabuga 304 Hrs: 9 a.mnoon: 1-3 p.m.: 4-9 p.m. Salgon, French Indo-China (B) Santiago de los Cabuleros, D. R. 125 w. (B). "La Voz del Comer- cio." a of "Maria la O" on or- gan, and nat'l anthem. Add: Moises Franco y Franco, Aptido 23. Hrs: 7:15-9:45 a.m., 11.45 a.m1:45 p.m., 4:45-6:45 p.m. Bogota, Colombia. 1 kw. (B). "La Voz de Colombia." Int: notes from nat'l anthem. a of "Indian Love Call." Add: Aptido 2665. Hrs: Sun., noon- 1:30 p.m., 6-11 p.m. Weekdays,
5895 5900 5905 6918 5925 5935 5940	YV3RA ZNB TILS YV4RH HH2S YV1RL	Taihoku, Taiwan. (C) Salpon, French Indo-China. (B) Barquisimeto, Venes. (B). "La Vos de Lara." Relays YV3RB. Hrs: 6-10 p.m. Mafeking, Bechuanaiand. 250 w. (C). 6-7 a.m.; 1-2:30 p.m. San Jose, Costa Rica. (B). Add: Aptdo. 3 Valencia. Venez. (B). "Radio Valencia." Relays YV4RB. Hrs: 6 p.m1 a.m. Port-au-Prince, Haiti. (B). Add: Societe Haitienne de Radio- diffusion. Boite Postal 103. Hrs: 7-10 p.m. Maracaibo, Venez. 300 w. (B). "Radio Popular". Relays YV1RK. s/o: "National Em- blem March." Ann: Eng. 8p. Add: Sr. Jose A. Higuera M, Aptdo. 247. Hrs: 5-10:30 p.m. Willemstad, Curacao, Nether- land Antilles. 150 w. (B). "Ra- dio Curom." Add: Curacaosche Radio Vereeniging, Emmastad. Hrs: 6:35-8:35 p.m. Guatemala City, Guat. 200 w. (B). "Policia Nacional." Add: Ministerio de Fomento. Verifies FREE.		OLR2A PRAS HI3U	casters, Ltd., Radio Bidg. Havana, Cuba 2500 w. (B). Relays CMCK Add: Lula Casas R., Box 98. Hrs: 4-10 p.m. Prague, Czechoslovakia, (Pode- brady). 35 kw. (B) Recife (Pernambuco) Brazil. 5 kw. (B) "A Vox do Norte." Int: time signal at noon and 7 p.m. Brazil Time. s.o: Nat'l anthem. Ann: Eng., Port. Add: Radio Club do Pernambuco, Avenida Cruz Cabuga 304 Hrs: 9 a.mnoon: 1-3 p.m.: 4-9 p.m. Satgon, French Indo-China (B) Santiago de los Caballeros, D. R. 125 w. (B). "La Voz del Comer- cio." s.o: "Maria la O" on or- gan, and nat'i anthem. Add: Moises Franco y Franco, Aptdo 23. Hrs: 7:15-8:45 a.m. 11.45 a.m1:45 p.m. 4:45-6:45 p.m. Bogota, Colombia. 1 kw. (B). "La Voz de Colombia." Int: notes from nat'i anthem. s.o: "Indian Love Cail." Add: Aptdo 2665. Hrs: Sun., noon- 1:30 p.m., 6-11 p.m. Weekdays, 10:30 a.m2 p.m.; 5:30-11 p.m. Mexico City, D. F. 400 w. (B). Add: Institucion Mundial de la V. I., Mina 56. Berlin, Germany, (Zeesen), 50 kw, (B). Int: music box tune
5895 5900 5905 6913 5925 5935 5940	YV3RA ZNB TILS YV4RH HH2S YV1RL PJC1 TG2X	Taihoku, Taiwan. (C) Salgon, French Indo-China. (B) Barquisimeto, Venes. (B). "La Vos de Lara." Relays YV3RB. Hrs: 6-10 p.m. Mafeking, Bechuanaiand. 250 w. (C). 6-7 s.m.; 1-2:30 p.m. San Jose, Costa Rica. (B). Add: Aptdo. 3 Valencia. Venez. (B). "Radio Valencia." Relays YV4RB. Hrs: 6 p.m1 a.m. Port-au-Prince, Haiti. (B). Add: Societe Haltienne de Radio- diffusion, Boite Postal 103. Hrs: 7-10 p.m. Maracaibo, Venez. 300 w. (B). "Radio Popular". Relays YV1RK. s/o: "National Em- blem March." Ann: Eng. 8p. Add: Sr. Jose A. Higuera M, Aptdo. 247. Hrs: 5-10:30 p.m. Willemstad, Curacao, Nether- land Antilles. 150 w. (B). "Ra- dio Curom." Add: Curacaosche Radio Vereeniging, Emmastad. Hrs: 6:35-8:35 p.m. Guatemala City, Guat. 200 w. (B). "Policia Nacional." Add: Ministerio de Fomento. Verifies FREE. Vatican City. 15 kw. (B). Int: ticking of clock. Ann: "Lau- datur Jesus Christus." Add:		OLR2A PRAS HI3U HJ3ABX	casters, Ltd., Radio Bidg. Havana, Cuba 2500 w. (B). Relays CMCK Add: Lula Casas R., Box 98. Hrs: 4-10 p.m. Prague, Czechoslovakia. (Pode- brady). 35 kw. (B) Recife (Pernambuco) Brazil. 5 kw. (B) "A Vox do Norte." Int: time signal at noon and 7 p.m. Brazil Time. s. o: Nat'l anthem, Ann: Eng., Port. Add: Radio Club do Pernambuco, Avenida Cruz Cabuga 394. Hrs: 9 a.mnoon: 1-3 p.m.: 4-9 p.m. Saigon, French Indo-China (B) Santiago de los Caballeros, D. R. 125 w. (B). "La Voz del Comer- cio." s. o: "Maria la O" on or- gan, and nat'i anthem. Add: Moises Franco y Franco, Aptido 23. Hrs: 7:15-8:45 a.m. 11.45 a.m1:45 p.m. 4:45-6:45 p.m. Hogota, Colombia. 1 kw. (B). "La Voz de Colombia." Int: notes from nat'i anthem. s. o: "Indian Love Cail." Add: Aptido 2665. Hrs: Sun., noon- 1:30 p.m., 5-11 p.m. Weekdays, 10:30 a.m2 p.m.; 5:30-11 p.m. Mexico City, D. F. 400 w. (B). Add: Institucion Mundial de la V. I., Mina 56. Berlin, Germany. (Zeesen). 50

		Reichs - Rundfunkgesellschaft, Haus des Rundfunk, Masuren- allee, Berlin-Charlottenburg 9.			times announces as HKF. s/o: "Song of the Islands." Hrs: 7-10:30 p.m.
6022	XEUW	Hrs: 10:40 a.m12:30 p.m. Veracruz, Ver. 20 w. (B). DRIFTS. Verifies for 3c USA stamp. "El Eco de Sotavento desde Veracruz." s/o: "La		VP3MR	Georgetown, Br. Gulana. 150 w. (B). "The Voice of Gulana." Add: 16 Robb and Hincks Sts. Hrs: 7:45-10:15 a.m.; 4:45-8:45 p.m.
6030	нР5В	Golondrina." Add: Av. Inde- pendencia 98. Hrs: 8 a.mmidnt. Panama City, Panama. 100 w. (B). "Estacion Radiodifusora	6072	YV1RD OER2	Maracaibo, Venez. (B). "Radio difusora Maracaibo." Relays YVIRE. Hrs: 7 p.mmidnt. Vienna, Austria. 1500 w. (B).
	OL DOD	Miramar." Add: Aptdo 910. Hrs: 5-10 p.m.	6075	XECU	Hrs: weekdays 9 a.m5 p.m. Guadalajara, Jal. 250 w. (B)
	OLR2B	Prague, Czecho. (Podebrady). 35 kw. (B)			"Estacion del Viajero del Mun- do." Opens: "Humoresque" on
	VE9BJ	St. John, N. B. 50 w. (B). Add: N. B. Brdestg. Co., Ltd., Ad- miral Beatty Hotel.			organ. Int: train whistle. s/o: "Adios, Mariquita Linda." Add: Union Nacional de Industria y
	XEBQ	Mazatlan, Stn. 100 w. (B). "La Voz del Pactifico." Int: 4 chimes. s/o: "Luxemburg March." Add:	6080	DJM	Comercio, Av. Hidalgo 579. Hrs: 9 a.m11 p.m. Berlin, Germany. (Zeesen). 50
6040	WIXAL	Apido 95. Boston, Mass. 20 kw. (B). "Dedicated to Enlightenment." Add: Educational Director, Uni-		VE9CS	kw. (B). For particulars see DJC on 6020 kcs. Vancouver, B. C. 10 w. (B).
	W4XB	versity Club. Miami, Fla. 5 kw. (B). Relays WIOD.			Relays CKFC. Add: Standard Brdestg. System, Ltd., 1001 Stock Exchange Bldg. Hrs: 2 p.mmidnt.
	YDA	Tandjong Priok, Java, N.E.I. 10 kw. (B). s/o: "End of a Perfect Day."		W9XAA	Chicago, Ill. 20 kw. (B). "The Voice of Labor." Relays NBC- WCFL. s/o: in Eng., Fr., Ger.,
		Paris, France. (Essarts). (B). "Radio Coloniale."			Norwegian, Polish, Ru, Sp. Add: Chicago Federation of Labor
6042	HJIABG	Barranquilla, Colombia. 150 w. (B). "Emisora Atlantico." Add:		XEWW	666 Lake Shore Drive. Merico City, D. F.
6044	ZP14	Aptdo 445. Hrs: 11 a.m11 p.m. Villarica, Paraguay. Hrs: 5-6	6082	ZHJ OAX4Z	Penang, Federated Malay States Lima, Peru. 10 kw. (B). "Radio
6045	XETW	p.m. Tampico, Tains. 100 w. Relays XEFW. Add: Floresy Martinez, Francisco I, Madero 204 Ote.			Nacional." Relays OAX4A. s/o; Nat'l anthem. Add: Peruvian Gov't., Av. Petit-Thouars 447; Hrs: 7-11:30 p.m.
6050	004	Hrs: Sun. 10 a.m4 p.m. Week- days 10 a.m10 p.m.	6085	HJ5ABD	Cali, Colombia. (B). "La Voz del Valle." s/o: "Goodnight
6050	GSA	London, Gt. Britain. (Daventry). 20 kw. (B) "A for Aerial." Int: Bow Bells; time signal from			Waltz." Add: Aptdo. 270. Hrs: Mon., Wed., Fri., 7 a.m10:30 p.m.
		Greenwich on even hours; Big Ben strikes hours, irregularly,		XECU ZHO	Guadalajara, Jal. Assigned 6075 Singapore, St. Settlements.
		preceded by Westminster Chimes. s/o: "God Save The King." Add: British Broadcast- ing Corp., London WI.	6090		Toronto, Ont. (Bowmanville), 1 kw. (B). Relays CBC. Add: Canadian Brdcstg. Corp., 805
	НЈ6АВА	Pereira, Colombia. (B). "La Voz de Pereira."			Davenport Rd. Hrs: 7:45 a.m 5 p.m.
6060	VQ7LO	Nairobi, Kenya. (B). Cable & Wireless, Ltd., Box 777.			Ibague, Colombia. "Ecos de Combeima."
	W3XAU	Philadelphia, Pa. (Newtown Square). 10 kw. (B). Relays CBS-WCAU. Add: WCAU		XEBF	Jalapa, Ver. 100 w. (B). Add: Pedro Coronel Aburto, Insur- gentes 34. Hrs: 10 a.m11 p.m.
		Brdcstg. Co., 1622 Chestnut St. Hrs: 8-11 p.m.	6095	JZH	Hong Kong. 2400 w. Add: Box 200 Nazaki, Japan. (C).
	W8XAL	Cincinnati, Ohio. (Mason). 10 kw. (B). Relays NBC-WLW.		ZGE	Kuala Lampur, Fed. Malay States. (B).
		Add: Crosley Radio Corp., 1329 Arlington St. Hrs: Daily 11 p.m 2 a.m. Sun., 8 a.m8 p.m. Week- days, 6 a.m8 p.m.	6097		Johannesburg, Union of So. Africa. (Maraisburg). 200 w. (B). Opens: bugle call. Ann: "Johan-
6065	HP5F SBO	Colon, Panama. (B). Stockholm, Sweden. (Motala). 500 w. (B). s/o: Nat'l anthem.		ZRK	nesburg calling." Add: South African Brdestg. Corp., Box 4559, Johannesburg. Cape Town, Union of So. Africa.
	XEXR	Add: Telegrafverket Tjanste- brev Nr. 5. Hrs: 1:30-5 p.m. Mexico City, D. F. 100 w. (B). Secretaria de Educacion Pub-			(Klipheuvel). 5 kw. (B). See ZRJ above for more data. Hrs; Sun. noon-3 p.m. Weekdays, noon-4 p.m.
6070	CERY	lica, Argentina y L. G. Obregon Toronto, Ont. 1 kw. (B). Relays	6100	W3XAL	New York, N. Y. (Bound Brook.
6079	CFRX	CFRB. Add: Rogers Radio Brdestg. Co., Ltd., 37 Bloor St., W. Hrs: 10 a.m11 p.m.			N. J.). 35 kw. (B). Ann: Eng., Fr., Ger., It., Sp. 8/0: "Star Spangled Banner." Add: NBC, Rockefeller Plaza, NYC. Hrs.
	нј3авг	Bogota, Colombia. 50 w. (B). "La Voz de Bogota." Some-			Sat., Sun., 6 p.m1 a.m. Other days, 7 p.m1 a.m.

	W9XF	Chicago, Ill. (Downers Grove).			2 kw. (B). Add: James Richard-
		10 kw. (B). Relays NBC-			son & Sons, Ltd., 157 Royal
		WENR. s/o: Eng, Fr, Ger, It, Jap, Ru, Sp, Swedish. Add:			Alexandra Hotel. Hrs: 6 p.m midnt.
		Audience Mail Dept., NBC, Inc.,		CSL	Liston, Portugal. (B)
		Merchandise Mart. Hrs: Sat.		HI5N	Moca, D. R. 100 w. (B). "La
		1:05-2 a.m.; 4-5:30 p.m. Sun.			Voz de Moca" Int: 5 strokes on
		1-5:45 p.m. Other days 1:05-			gong, s/o; nat'l anthem. Add:
		2 a,m.; 4-5:45 p.m.			Calle Salcedo 72. Hrs: 6:15-7:45
	YUA	Beigrade, Jugoslavia. 1 kw.			a.m.: 11:45 a.m1:45 p.m.: 5:45- 7:45 p.m.
		"Radio Beograd." Add: Bureau Central de Presse, Poste Emet-		VPB	Colombo, Ceylon. 300 w. (B).
		teur a Ondes Courtes. Hrs:		***	Add: Central Telegraph Office.
		noon-5 p.m.			Hrs: Sun. 7-11:30 a.m. Weekdays
6108	HJ6ABB	Manizales, Colombia. "Radio			6:30 a.m12:30 p.m.
		Manizales." Hrs: 6 p.mmidnt.		ZRD	Durban, U. of So. Africa. 10 w.
6110	GSL	London, Gt. Britain. (Daventry)			(B). For details see ZRJ on
		"L for Liberty." See GSA 6050	6158	YV5RD	6097 kcs. Caracas, Venez. (B). "Radio-
		kcs for more data. Hrs: 9:20- 11:20 p.m.	0156	IVORD	difusora Venezuela." Relays
	VE9BA	Ottawa, Ont. 100 w. Portable			YV5RB. Hrs: 10:30 a.m1:30
	VUC	Calcutta, India. (B).			p.m.; 3:30-10 p.m.
	XEGW	Mexico City, D. F. 250 w. (B).	6174	XEXA	Mexico City, D. F. (B). Relays
		Add: Jose G. Garza Fox, San			XEXM. s/o: "March of The
		Juan de Letran 81.			Toys." Add: Departamento
6115	OLR2C	Prague, Czecho. 35 kw. (B).			Autonomo de Prensa Publicidad
4100	XEUZ	Mexico City, D. F. Assigned 6130	6180	TG2	(DAPP). Hrs: 8:30 a.mmidnt. Guatemala City, Guat. (B). Add:
6120	W2XE	New York, N. Y. (Wayne, N. J.). 10 kw. (B). Relays CBS-WABC.	0180	1 G2	Director General of Electrical
		s/o: "Star Spangled Banner."			Communications. Verifies FREE.
		Add: Columbia Brdestg. Sys.,	6190	HIIA	Santiago de los Caballeros, D. R.
		485 Madison Ave., NYC.			50 w. (B). "La Voz del Yaque."
	YDA5	Bandoeng, Java, N.E.I. 1500 W.			Add: Rafael Western. Hrs:
		(B). Add: N. V. Nederlandsche	0000	00	weekdays 8-10 p.m.
		Indische Radio Omroep Moat-	6200	COKG	Santiago de Cuba. 50 w. (B).
0100	HIGARY	chappij, Tegallegah 23.			"Ask for Bacardi." Relays CMKG. Add: Sres. Grau y
SIEE	OAX6A	Areguipa, Peru. 100 w. (B).			Caminero, Aptdo 137. Hrs:
	UAAUA	"Radio Aregulpa." Add: Eduado			Dally exc. Sat., 9 a.m11 p.m.
		L. Caceres, Munoz Najar 141.		XEXS	Mexico City, D. F. 100 w. (B).
6125	HP5H	Panama City, Panama. (B).			Add: Departamento de Salubri-
6128	OAX7A	Cuzco, Peru. 100 w. Add: Car-			dad Publica.
		los Lizarraga Fisher, Montero 43	6205	YV1RI	Coro, Venezuela. 150 w. (B).
6130	COCD	Havana, Cuba. 350 w. (B).			"La Voz de Coro." Owner:
		"La Voz del Aire." Relays CMCD, Int: 4 chimes. s/o:	6906	H18Q	Rodger Leyba. Hrs: 5-10 p.m. Trujillo, D. R. 200 w. (B). "La
		"Goodnight Waltz." Add: Hotel	0200	111002	Voz de la Philce.' Int: gong.
		Palace, Calle 25 y G, Vedado.			s/o: nat'l anthem. Add: Av.
		Hrs: 5 p.m1 a.m.			Wenceslao Alvarez No. 3. Hrs:
	LKJ	Oslo, Norway (Jeloy). (B). Hrs:			Sun. 6-10 p.m. Weekdays 8:30
		11:30 a.m5:30 p.m.	2010	maa	a.mnoon; 2:30-5 p.m.
	VE9HX	Halifax, N.S. 500 w. (B). Relays	6210	TG2	Guatemala City, Guat. Assigned 6180
		CBC-CHNS. Add: Maritime Brdestg. Co., Ltd., Box 998.	6225	YVIRG	Valera, Venez. (B). "Radio Val-
		Hrs: 5-11 p.m.	0220	1 1110	era." Owner: J. L. Febres Jel-
	XEUZ	Mexico City, D. F. 100 w. (B).	•		ambi. Hrs: 5:30-7:30 p.m.
		Add: Partido Nacional Revo-	6235	HRD	La Ceiba, Honduras. 250 w. (B).
		iucionario. Add: 5 de Mayo 21.			"La Voz de Atlantida." Hrs:
		Hrs: 10 a.m2 a.m.			8-11 p.m.
6132	VP3BG	Georgetown, Br. Guiana. (B).	6243	HIN	Trujillo, D. R. 740 w. (B).
6133	XEXA	Mexico City, D. F. 100 w. (B), Add: Secretaria de Educación			"Broadcasting Nacional." s/o:
		Publica, Argentina y L. G.			nat'l anthem. Add: Frank Hat- ton, Dominican Gov't., Carle
		Obregon			Arzobispo Merino 79. Hrs: Week-
8127	CR7AA	Lourenco Marques, Port. East			days, noon-2:30 p.m.; 5:45-10
0101	OILIM	Africa. (B). Ann: Eng, Port.			p.m.
		Add: Caixa Postal 594. Hrs: Sun.	6250	YV5RJ	Caracas, Venez. (B). "La Voz
		6-9 a.m. Weekdays 5-7 a.m.	0200		de la Esfera." Relays YV5RI.
6140	W8XK	(X) Pittsburgh, Pa. (Saxonburg).			Add: Suegart y Cla., Box 1908.
		40 kw. (B). Relays NBC-KDKA.			Hrs: 10 a.m10 p.m.
		Add: Westinghouse Electric &	6270	YV5RP	Caracas, Venez. 1200 w. (B).
		Mfg. Co., Grant Bldg. Hrs:			'La Voz de Philco.'' Relays
		11 p.m1 a.m.			YV5RQ. Add: Aptdo 508. Hrs:
6145	HJ4ABE	Medellin, Colombia. 1 kw. (B).			7 a.m1:30 p.m.; 3:30-9:30 p.m.
		"La Voz de Antioquia." Relays	62 80	HIG	Trujillo, D. R. 150 w. (B). "La
		HJ4ABK. Int: 3 chimes. Hrs: 6-10:30 p.m.			Opinion.' s/o: nat'l anthem.
	a en	Bulawayo, Southern Rhodesla.			Add: Andres Cordero Puello, Santiago Rodriguez No. 12. Hrs:
0147	ZEB	(C), Add: Box 792, G.P.O., Salis-			Weekdays 7-9 a.m.; noon-2:30
		bury. Hrs: Sun. 3-5 a.m.			p.m.; 4-9 p.m.
6150	CJRO	Winnipeg, Man. (Middlechurch).	6282	СОНВ	Sancti-Spiritus, Cuba. 150 w.
5100	00110				

		(B). Relays CMHB. Add: V. E. Weiss y O. Ramirez, Aptdo 85.	6479	HI8A	Trujillo, D. R. (B). "Fa Doc en
		Hrs: 9-11 p.m.	6485	HIIL	el Aire." Santiago de los Caballeros, D. R.
6295	OAX4G	Lima, Peru. 400 w. (B). "Radio Grellaud." Relays OAX4B. Add:			(B). "Emisora Nacional." Add: El Diario, Calle Presidente Tru-
		Roberto Grellaud y Cla., Sen			illo 97. Hrs: 6:30-8 a.m.; 5:30-
6300	YV4RD	Abancay 915-23. Hrs: 7-9:30p.m. Maracay, Venez. (B). "La Voz	6490	****	7 p.m.; 8-9 p.m.
0000	1 1 1100	de Aragua." Relays YV4RG.	6500		North West Airlines Tokyo, Japan. (Haneda Air-
		Owner: Luis y Victor Croquer. Hrs: 5-11 p.m.		1111	drome). (A).
6310	HIZ	Trujillo, D. R. 100 w. (B). Add:		HIL YV1RM	Trujilio, D. R. 50 w. (B). Maracaibo; Venez. (B). "Radio-
		Calle Duarte 68. Hrs: Sun. 11:40 a.m2:40 p.m. Weekdays 11:10-			difusora Maracaibo," Relays YV1RN.
		a.m2:10 p.m.; 4:40-9:40 p.m.	6508	• • • • • •	Tetuan, Sp. Morocco. (B).
6312	ZP14	Villarrica, Paraguay. 1 kw. (B), "Radio Cultura." Hrs.: 11 a.m	6510	****	"Radio Guardia Civil." Trans Western Airlines
		5 p.m.	6520	YV4RB	Valencia, Venez. (B). "La Voz
6330	COCW	Havana, Cuba. (B). Relays CMW. "La Voz de las Antillas."			de Carabobo." Relays YV4RA. Int: chimes, then short piano
		Add: Paseo de Marti 105. Hrs:			selection, then chimes. Owner:
6335	OAX1A	7 a.mmidnt. Chiclayo, Peru. 200 w. (B). "La			Sres. Hermann y Williams Deg- witz. Hrs: 5-10 p.m.
		Voz de Chiclayo." s/o; "Good-		****	Trans Western Airlines
		night Waltz." Add: Carlos J. Montjoy, Casilla 9. Hrs: Sat.,	6530 6540	**** YNIGG	Trans Western Airlines Managua, Nicaragua. (B).
60.40	*****	8 p.mmidnt. Daily 8-11 p.m.			Wants unused USA stamps for
6340	HIIX	Trujilio, D. R. 500 w. (B). Relays HIX. Add: J. R. Saladin. Hrs:		****	veries. "La Voz de los Lagos." American Airlines
00.57	1172 121	Tues., Fri., 8-10 p.m.	6545	YV6RB	Bolivar, Venez. 200 w. (B).
6357 6360	HRP1 YV1RH	San Pedro Sula, Honduras. (C) Maracalbo, Venezuela. (La			"Ecos del Orinoco." Relays YV6RA. Int: bell. s/o: "Sin
		Arriaga). 350 w. (B). "Ondas			Nombre," a one-step. Add: En-
		del Lago." Relays YV1RF. Int: notes from "Jealousy". Add:			rique Torres Valencia, Aptdo34. Hrs: 10:30 a.mnoon; 7-9:30 p.m.
		Nicolas Vale Quintero, Aptdo	6550	TIRCC	San Jose, Costa Rica
		261. Hrs; Sun., 8:30 a.m2:30 p.m. Weekdays, 6:15-7:15 a.m.;	6555	HI4D	American Airlines Trujillo, D, R. 25 w. (B), "La
6375	YV5RF	11 a.m1:30 p.m.; 4-11 p.m. Caracas, Venez. (B). "Ecos del			Voz de Quisqueya" Hrs: 5-8 p.m.
0370	1 VOILE	Caribe." Relays YV5RE. Add:	6560	****	American Airlines
		Estudios America, Aptdo 963. Hrs: 11:30 a.m10 p.m.	6570	****	Pacific Alaska Airways Pacific Alaska Airways
6384	VP2LO	Basseterre, St. Kitts. 500 w. (B)		****	Pan American Airways
		Opens: "Rule Brittania." s/o: "God Save The King." Add: P.	6575	HC1VT	Ambato, Ecuador. (B), "Radio Ambato."
		O. Box 88. Hrs: 4-4:45 p.m. daily.	6580	****	Pan American Airways
6385	WO9	Mitchell Field, L. I., N. Y. (A). U. S. Army	6590	COCU	Havana, Cuba. (B). Add: Estrada Palma 25, Vibora. Hrs:
6400	YV5RH	Caracas, Venezuela. (B). "On-			Sun. 7 p.mmidnt. Weekdays
		das Populares." Relays YV5RG. Add: Aptdo. 1931.	6600	****	7 p.m1 a.m. Southern Alrlines
6410	TIPG	San Jose, Costa Rica. 1 kw. (B).		YNLG	Managua, Nicaragua. 1 kw. (B).
		"La Voz de la Victor." Ann: Eng, Sp. s/o: "Good Night			"Ruben Darlo." Opens: 3 bugie calls and a march. s/o: After-
		Sweetheart." Add: Perry Gir-			noons, "Till We Meet Again."
6416	VVEDC	ton, Aptdo 224. Hrs: 6-10:30 p,m, Bolivar, Venezuela. (B). "Radio			Evenings, "Good Night, Ladies." Add: 5a Calle Noroeste
6416	YV6RC	Bolivar."			No. 207. Hrs: 8-10 a.m.; 1-3
64 20	HIIS	Santiago de los Caballeros, D. R.	6622	PRADO	p.m.; 6 p.mmidnt. Riobamba, Ecuador, (B).
		20 w. (B). "La Voz de la Hispaniola." Hrs: 6-11 p.m.			"Estacion El Prado." Add:
	\mathbf{TGQA}	Quezaltenango, Guat. (B). Add:			Fabrica de Tejidos de El Prado, Aptdo 98; Hrs: Thurs., 9-11 p.m.
		Director General of Electrical Communications. Verifies	6630	HIT	Trujillo, D. R. 200 w. (B). "La Voz de la RCA-Victor." Int:
		FREE. Hrs: 8-10 p.m.			bells. s/o: Nat'l anthem. Add:
6425	OAX4K	Llma, Peru. 200 w. (B). "Radio Goincochea." Relays OAX4E. Add:			A: L. Pichardo, Aptdo 1105, Hrs: Sun. 10:45 p.m1:45 a.m.
		Ing. Juan P. Goincochea, Ocona 158			Weekdays, 5:45-8:45 p.m.
	W2XGB	Hicksville, N. Y. 5 kw. (E). Press Wireless, Inc.	6660	WOGK	Yacht "Mako." 100 w. (SS). Thorne Donnelley
	W3XL	New York, N. Y. (Bound Brook,	6662	WXH	Ketchikan, Alaska. (C).
		N. J.). 100 kw. (E). Add: NBC, Rockefeller Plaza, NYC.	6668	HC2RL	Guayaquii, Ecuador. 200 w. (B) "Quinta Piedad." Int: "Hello.
6450	HI4V	San Francisco de Macoris, D. R.			America." s/o: Nat'l anthem.
- 300		25 w. (B). "La Voz de la Mari-			Add: Dr. Roberto Levi, Casilla 759. Hrs: Sun. 5:30-7:30 p.m.
		na.'' Hrs: 2:40-4:40 p.m.; 7:10- 9:10 p.m.			Tues., 9-11 p.m.
6465	YV3RD	Barquisimeto, Venez. (B). "La		YVQ	Maracay, Venezuela. (C).
		Voz de Lara." Ann: Eng, Fr, It, Sp.	6675	HBQ	Geneva, Switzerland (Prangins). (B). "Radio Nations". Add:
		τυ, σμ.			(2). Leadio Manons , Add:

		Information Section, League of	7565	KWY	(X) Dixon, Calif. (C).
9900	TIED	Nations.	75 70	WDJ TDG	(X) Ocean Gate, N. J. 2 kw. (C). Shinkio, Manchukuo. (C). Man-
6690	TIEP	San Jose, Costa Rica. (B). "La Voz de Isthmo." Add:	1310	I DG	chukuo Telegraph & Telephone
		Eduardo Pinto Hernandez, Apt-			Co
		do 257. Hrs: 4-11 p.m.	7610	KWX	(X) Dixon, Calif. 40 kw. (C).
6700	$TIVL \ ext{KEF}$	San Jose, Costa Rica (X) Bolinas, Calif. (C).	7620 7700	IUB TYC2	Addis Ababa, Ethiopia. (C). Ste. Assise, France. (SS). Add:
6710	PMH	Bandoeng, Java, N.E.I. 1500 w.	1100	1102	L'Engenieur en Chef, Directors
6720		Rossland, B. C. (c). Con-			de Service de la Telegraphie sans
		solidated Mining & Smelting Co.			Fil, 5 Rue Froidevaux (14e)
6730	HI3C	La Romana, D. R. (B). "La Voz de la Feria." Hrs: 5:45-		****	Paris. Airways
		8 p.m.	7715	KEE	(X) Bolinas, Calif. 40 kw. (C).
6755	WOA	(X) Lawrenceville, N. J. (C).	7750	CMA5	Havana, Cuba. (C).
6762	TDA	Shinkio, Manchukuo. 20 kw.	7797	HBP	Geneva, Switzerland. (Prangins). 20 kw. (B). "Radio
		(C). Manchukuo Telegraph & Telephone Co., Ltd.			gins). 20 kw. (B). "Radio Nations." Add: Information
6780	HIH	San Pedro de Macoris, D. R.			Section, League of Nations.
0.00		150 w. (B). "La Voz de Higu-	7870	HC1RB	Quito, Ecuador. (B). "La Voz
		amo." Owner: Sr. Domingo		wnn	de Quito." Hrs: 8:30-11:30 p.m. Palembang, Sumatra, N.E.I.
6800	HI7P	Dominguez. Trujillo, D. R. 25 w. (B).		YBB	(C). Add: 4th Telegraph and
0000	11171	DRIFTS. "Diario del Com-			Telephone District. Hrs: Phones
		ercio." s/o: "Lempira" on			Java 8:30 p.m7 a.m.
		Marimba. Add: Calle Jose	7894	YSD	San Salvador, E. S. (B). "Radio Nacional." Relays YSS. Add:
		Reyes 35. Hrs: Sun. 10-11 a.m. Weekdays 1-3 p.m.; 7-9 p.m.			Director General de Telegrafos,
	PZH	Paramartho, Surinam			Telefonos y Radio Nacionales.
6845	KEN	(X) Bolinas, Calif. (C).			Hrs: 9-10:30 p.m.
6850	TIOW	Puerto Limon, Costa Rica. 400	7901	LSL1	Buenos Aires, Argentina. (C). Add: Cia Internacional de
		w. (B). Owner: Otto F. Wimmer. Hrs: Sun. 4-5 p.m. Weekdays			Radio, S. A., Defensa 143.
		noon-1 p.m.	7920	GDP	Rugby, Gt. Britain. (C). Add:
6860	KEL	(X) Bolinas, Calif. (C).			General Post Office, (Radio
6890	KEB	(X) Bolinas, Calif. (C).			Section), Armour House, St. Martin's le Grand, London EC1.
6905	GDS	Rugby, Gt. Britain. 15 kw. (C).	7968	HSJ	Bangkok, Siam. (C). Add: Post
		Add: Engineer-in-Chief, G.P.O., Armour House, St. Martins le			and Telegraph Dept.
		Grand, London EC1.	7970	XGL	Shanghat, China. (C).
6915	XBA	Tacubaya, D. F (C). Servicio	7977	· · · · · •	(X) Lawrenceville, N. J. 20 kw. (C).
0010		Meteorologico Mexicano.	8050	WXA	Juneau, Alaska. (C).
6950	GBY	Rugby, Gt. Britain. (C). See	8070	KAEW	Umnak, Alaska. (C).
		GDS 6905 kcs for more data		KAJJ	Atka, Aaa. (C).
7000	PZH	Paramaribo, Surinam		KAQF ****	Unalaska, Aaa. (C). Airways
7000			8075	WEZ	(X) Rocky Point, N. Y. (C).
to	AMATE	URS	8095	VLK	Sydney, Australia. (C).
7300		Danasta Tabiti 200 w (P)	8130 8220	****	North West Airlines Pacific Alaska Airways
7090		Papeete, Tahiti. 200 w. (B). Owner: Radio Club Oceanien.	8220	****	Pan American Airways
	*	Hrs: Tues., Fri., 11 p.mmidnt.	8543	IBGI	S. S. "Conte Verde." (SS). Add
7200	YNAM	Managua, Nicaragua. (B). Unused	0500	****	Italian Lines, 1 State St., NYC.
		USA stamps for vertes. "La Voz	8560	woo	(X) Ocean Gate, N. J. 20 kw. (SS).
		del Pacifico." Hrs: 8 p.m-midnt.	8580	YNPR	Managua, Nicaragua. 500 w.
7300	VIG	Port Moresby, Papua. (B)			(B). Unused USA stamps for
		Relays 4PM.			verles. "Radio Pilot" Hrs:
7380	XECR	Mexico City, D. F. 20 kw. (B). Ann: Eng, Sp. Add: Secretaria	8600	HC1EC	1:30-2:30 p.m.; 8-10 p.m. Quito, Ecuador. (B).
		de Relaciones Exteriores. Hrs:	3000	HPF4	Panama City, Panama. (C).
		Sun. 6-8 p.m.	8620	WVD	Seattle, Wash. (C). Alaskan
		Paris, France. (B) 'Radio			Telephone Co., 517 Federal
		Liberte."	8630	VOWQ	Office Bldg. Northwest River, Labrador.
7500		Salamanca, Spain. "Radio Nacional"	0000		(A) Newfoundland Skyways,
7510	IVD				Ltd
7510	JVP	Tokyo, Japan. (Nazaki). 50 kw- (B). Ann: Chinese, Eng. Fr.	8640	HJ4ABU	Medellin, Colombia. (B). Add: Universidad de Antioquia
		Ger, Jap, Port, Sp. s/o: "Kima-	8665	COJK	Camaguey, Cuba. 2400 w. (B)
		gayo," nat'l anthem. Add:	5550		"Radio Zenith." Relays CMJK
		Nippon Hoso Kyokai, Overseas			Add: Finlay 3. Hrs: 6 p.m1
		Section, Broadcasting Corp. of Japan, Atago-Yama, Tokyo.	0000	CRC	a.m. Rugby, Gt. Britain. (SS). Add
		Hrs: 2:30-4 p.m.	8680	GBC	See GDP on 7920.
7520	KKH	(X) Kahuku, Hawail. 10 kw. (C).	8690	VWZ	Kirkee, Poona, India. 10 kw
	RKI	Moscow, U.S.S.R. (B and C).			(C). Add: Indian Radio & Cable
	20	Hrs: Daily 7-9 p.m.			Communications Co., Poona 6.
7532		Bogota, Colombia. (C).	8710	KBB	(X) Manila, Philippine Isl. (C).
7555	WOZ	(X) Lawrenceville, N. J. 20 kw.	873 0	GCI	Rugby, Gt. Britain. (C). Add:
		(C).			See GDP on 7920.

8740	wxv	Fairbanks, Alaska. (C).	9040	TVA9	Pontolas Evenes 10 km (C)
8770	iCEJ	Lines, 1 State St., NYC.	9045	TYA2 VWY	Pontoise, France. 10 kw. (C). Add: See TYC2 on 7700. Kirkee, Poona, India. See VWZ
8798	нки	Bogota, Colombia. (E). Ministry of War.		NPO	on 8690. Cavite, Philppine Islands. Time
8810	FNSK	S. S. "Normandie." (SS). French Lines, pler 88, North			signals at 5:55 p.m. EST.
	1BLI	River, Foot of W. 48th St., NYC. S. S. "Conte di Savoia." (SS). Add: Italian Lines, 1 State St	9100	COCA	Hankow, China. (C). Havana, Cuba. (B). DRIFTS. Relays CMCA. Add: Testar y Gonzales, Box 3488.
8820	нСЈВ	NYC. Quito, Ecuador. 1 kw. (B). "La Voz de los Andes." Add: Clarence W. Jones, Casilia 691. Hrs: Daily exc. Mon., 7-8:15 a.m.; 11:30-2:30 p.m.; 4:45-10:15 p.m.	9125	нат4	Budapest, Hungary (Szekesfehervar). 20 kw. (B). "Justice for Hungary." Ann: usually by lady, in Eng. Fr, Hungarian. s/o: Nat'l anthem, "Isten ald meg a Magyart" (Lord Bless the Hungarian). Add: Radiolabor,
	wogk	Yacht "Mako." 100 w. (SS), Thorne Donnelley.			Kiserleti Allomas, Gyali-ut 22, Budapest IX. Hrs: Sun., Wed.,
8830		British Ships. Work with GBC and WOO. Add: International Marine Radio, Conneaut House, 63 Aldwych, London WC2. GBTT R.M.S. "Queen Mary." GBZW S. S. "Berengaria" GDLJ S. S. "Homeric" GFWV S. S. "Majestic" GLRZ S. S. "Aquitania"	9168 9180	YVR HC1GQ · ZSR	7-8 p.m.; Sat., 6-7 p.m. Maracay, Venezuela. (C). Quito, Ecuador (Nariz del Dlablo). (B). 8/0: "Blue Danube Waltz." Add: Aptdo 159. Hrs: Mon., Wed., Sat., 9-10:30 p.m. Klipheuvel, Union of So. Africa. (C). Add: Overseas Communications of So. Africa, Ltd., Box
		GMBJ S. S. "Empress of Britain" French Ships. Work WOO. Add:	9200	COBX	962, Cape Town. Havana, Cuba. (B). DRIFTS. Relays CMBX. Add: Alberto
	•••••	French Lines, Pier 57, Hudson River, NYC. FNSK S. S. "Normandie"	9250	HC2CW	Alvarez, San Miguei 194. Guayaquil, Ecuador. (B). "Ondas del Pacifico." Add:
		FNSM S. S. "Paris" FNTQ S. S. "Ile de France"		NAA	Aptdo. 1166. Arlington, Va. Time signals at 9:55 a.m. and 9:55 p.m. EST.
	•••••	Furness-Bermuda Lines. VQJM S. S. "Monarch of Ber-	9280	GCB	Rugby, Gt. Britain. 15 kw. (C). Add: See GDP on 7920.
		muda" VQJP S. S. "Queen of Bermu-	9 2 85	XGU XPC	Shanghat, China. (C) Shanghat, China. (C)
	•••••	da" German Ships. Work DAF and WOO. Add: North German Lloyd, Pier 42, North River, Morton St., NYC. DDBR S. S. "Berlin"		ніб	Trujillo, D. R. 250 w. (B). "La Opinion." s/o: Nat'l anthem. Add: Andres Cordero Puello, Santiago Rodriguez 12. Hrs: Weekdays noon-12:30 p.m.; 4-9 p.m.
	·	DDCP S. S. "Cap Polonio" DDFF S. S. "Reliance" DDFT S. S. "Oceana" DHDL S. S. "Cap Arcona" German ships. Work DAF and WOO. Add: Hamburg American Lines, Pier 86, North River, W. 46th St., NYC.	9500	XTC YNGU	Shanphai, China. (C) Managua, Nicaragua. 50 w. (B). "Alma Nica." Int: 1 stroke on gong. Opens: "Sesqui-Centennial Exposition March." s/o: Nat'l anthem. Add: Aptdo 295. Hrs: weekdays noon-2 p.m.; 5-6 p.m.
		DHAO S. S. "Hansa" DHEY S. S. "Deutschland"	9310	****	Airways
		DHJZ S. S. "Hamburg"	9530	OAX4J	Lima, Peru. Assigned 9520
	•••••	DHRLS. S. "New York" German Ships. Add: North German Lloyd, Pier 4, Foot of 58th St., Brooklyn, N. Y. DOAH S. S. "Bremen"	9345	HBL	Geneva, Switzerland. (Prangins). "Radio Nations." Add: Information Section, League of Nations.
8840	ZMBJ	DOAI S. S. "Europa" T. S. S. "Awatea." (SS). Add: Union Steamship Co. of N. Z., Auckland.	9350	HS8PJ XTR	Quito, Ecuador. (B). Bangkok, Siam. (B). Ann: Eng, Fr, Siamese. Int: 3 chimes. Add: Post and Telegraph Dept. Canton, China. (C). Add: Chinese
8850	FNSK	S. S. "Normandie." See 8830 kcs.			Government Radio Administration, Sassoon House, Jinkee Road, Shanghat.
8960	TPZ	Alger, Algiers. (C). Address reports to Director du Service de la Telegraphie sans fil, 5 rue	0055		Fort de France, Martinique. (B), "Radio Fort de France."
		Froidevaux, Paris.	9355	WNK	(X) Hialeah, Fla. (C). Havana, Cuba. (B). DRIFTS.
9010 90 20		(X) Bolinas, Calif. (C). Rugby, Gt. Britain, 15 kw. (C).	9363	COBC	"El Progreso Cubano." Relays CMBC. Add: Av. Monte 139,
	GOP."	Add: See GDP on 7920			or, Aptdo 132.
	COBZ	Havana, Cuba. (B). DRIFTS. "Radio Salas." Relays CMBZ. Add: Aptdo. 866.	9415	PJC2	Willemstad, Curacao. (B). "Radio Curom." Add: Cura- caosche Radio Vereeniging, Em- mastad. Hrs: Sun. 10:30 a.m
9038	VWY	Kirkee, Poona, India. See VWZ on 8690.			12:30 p.m.

	PLV	Bandoeng, Java. N.E.I. 80 kw. (C). Add: Governments Radio-		OAVAI	rez y Aristizabal. Hrs: 8-11 a.m.; 6-10 p.m.
9425	NAA	dlenst. Arlington, Va. Time signals at 12.55, 1.55, 2.55, 3.55, 7.55, and 11.55 a.m., and 1.55, 3.55, 5.55,		OAX4J	Lima, Peru. 500 w. (B). "La Voz de Lima." Relays OAX4I. Opens: "Broadway Rhythm." Int: 3 chimes. s/o: "Whistler
9428	COCH	6:55 and 11:55 p.m. Havana, Cuba. 150 w. (B). Add: General Electric Co. of Cuba, No. 2 "B" St., Vedado.			and His Dog." Ann: Eng, Fr, Ger, Sp, Add: Radio Inter- nacional, Inc., Aptdo 1166. Hrs: noon-3 p.m.; 5-11 p.m.
9445	HC2RA	Hrs: 7 a.m1 a.m. Guayaquii, Ecuador. (B). "La Voz de Alma." Hrs: Sun. 4-10		OZF	Copenhagen, Denmark. (Skamle- baek). 6 kw. (B). Add: Mail and Telegraph Dept., Technical
9448 9450	WES HC2ODA	p.m. Dally 9-10 p.m. (X) Rocky Point, N. Y. (C). Guayaquil, Ecuador. (B). "La Voz del aire." Hrs: 9-10 p.m.		XEDQ	Division, Statsradiofonien, 32 Bernstorffsgade. Hrs: 2-6:40 p.m. Guadalajara, Jal. 500 w. (B).
9460 9470	ICK WKJ PJC1	Tripoli. 2 kw. (C). (X) New Brunswick, N. J. (C). Willemstad, Curacao. 150 w.		ALD Q	"Hablando a los continentes desde Guadalajara." Relays XED. Int:4 chimes s/o: "Jarabe
	WET	(B). "Radio Curom." Add: Curacaosche Radio Vereeniging Hrs: Sun. 10:30 a.m12:30 p.m. (X) Rocky Point, N. Y. (C).			Tapatio." Add: Radio Fonografica de Guadalajara, S. A., Aptdo. 197. Hrs: noon-4:30 p.m.; 8 p.mmidnt.
9476 9480	EAH EAR	Madrid, Spain. (C). Madrid, Spain. 20 kw. (B). "La Voz de Espana." Add: Medinaceli 6. Hrs: 7:30-8 p.m.:		YSH	San Salvador, E. S. (B). Relays YSS. Parts, France. (B). "Radto Liberte." Add: 10 Ave. de la
9490	KES XTV	8:30-9 p.m. (X) Bolinas, Callf. (C). Canton, China. (C).	9523	ZRH	Liberte, Becon, Courbevote, France Pretoria, Union of So. Africa. (Roberts Heights). 5 kw. (B).
9500	НЈ1АВЕ	Cartagena, Colombia. (B). "La Voz de los Laboratorios, Fuentes." Add: Aptdo 31.			Opens: bugle call. Ann: "Johannesburg calling." Add: South African Broadcasting Corp.,
	XEWW	Mexico City, D. F. 10 kw. (B). "La Voz de la America Latina desde Mexico." Relays XEW. Add: Aptdo 2516. Hrs: 8:55 a.m			Box 4559, Johannesburg. Hrs: Sun. 3:30-4:30 a.m. or 4-5 a.m. Dally exc. Sun., 5-7:30 a.m.: 11:45 p.m12:45 a.m.
	XGW	midnt. Shanghai, China	9525	ZBW3	Hong Kong. 2500 w. (B). Add: Hong Kong Brdestg. Committee, Box 200.
9501	PRF5	Rio de Janeiro, Brazil. 60 kw. (B). "A Vox do Brasil." Add: Cla. Internacional do Brasil,	9530	LKC W2XAF	Jeloy, Norway. 1 kw. (B). Hrs: 5-8 a.m. Schenectady, N. Y. 40 kw. (B).
9 50 4	OLR3B	Box 709. Prague, Czechoslovakia. 35 kw. (B).			"The Voice of Electricity." Relays NBC-WGY. Opens: electrical discharge of 10 million
9 510	CXA8	Colonia, Uruguay. 2500 w. (B). "Real de San Carlos." Relays LR3 of Buenos Aires. Add: Real de San Carlos, Colonia.			volts of man-made lightning. Add: General Electric Co. Hrs: Sat. poon-midnt. Other days 4 p.mmidnt.
	GSB	Hrs: 6 a.m10 p.m. London, Gt. Britain. (Daventry). 20 kw. (B). "B for Broad-	9535	W6XBE JZ1	Belmont, Calif. 20 kw. (B). Add: General Electric Co. Tokyo, Japan. (Nazaki). 50
		casting." Int: Bow Bells; Greenwich time signal on even hours; Big Ben strikes hours irregularly, preceded by West- minster Chimes. s/o: "God Save The King." Add: British			kw. (B). Ann: Chinese, Eng, Fr, Ger, Jap, Port, Sp. s/o: "Kimagayo," nat'l anthem. Add: Nippon Hoso Kyokai, Overseas Section, Broadcasting Corp. of Japan, Atago-Yama, Tokyo.
		Brdestg. Corp., London W1. Hrs: 2-4:15 a.m.; 12:20-4 p.m. 4:15-6 p.m.; 6-8:30 p.m.; 9:20- 11:20 p.m.	9536	VPD2	Hrs: 2:30-4 p.m.; 4:30-5:30 p.m. Suva, Fiji. 2 kw. (B). Add: Amalgamated Wireless (A/sia) Ltd. Hrs: 5:30-7 a.m.
	HJU	Buenaventura, Colombia. 1 kw. (B). 'La Voz del Pacifico.' s/o: 'Palmira March.' Add:	9540	DJN	Berlin, Germany. (Zeesen). 50 kw. (B). Int: music box tune. s/o: "Horst Wessel Lied" and
	HS8PJ	National Railroads of Colombia. Bangkok, Slam. (B). Opening and interval sigs: 3 ascending chimes. Ann: Eng, Fr, Slamese. Add: Colonel Phra Aram, Post and Telegraph Dept. Hrs: Mon.,			"Deutschlandlied." Add: Reichs - Rundfunk - Gesell- schaft, Haus des Rundfunks, Masurenallee, Berlin - Char- lottenburg 9. Hrs: 4:50-10:45 p.m.
	VK3ME	Thurs., 8-10 a.m. Melbourne, Australia. (Braybank). 5 kw. (B). Add: Amalgamated Wireless (A/sla) Ltd., Box 1272L, Elizabeth St. P. O.	9550	OLR3A	Prague, Czechoslovakia. (Pode- brady). 35 kw. (B). Int: trumpet tune from "New World Symphony." Add: Fochova Tr. 16, Praha XII. Hrs: Mon.,
9520	нЈ6АВН	Hrs: Weekdays 4-7 a.m. Armenia, Colombia. 1 kw. (B). "La Voz de Armenia." Relays HJ6ABN. Add: Hoyos, Gutler-		W2XAD	Tues., 4:40-5 p.m. Schenectady, N. Y. 50 kw. (B). General Electric Co. Hrs: 7:30 p.mmidnt.

-		XEFT	Veracruz, Ver. 20 w. (B). "La		XEYU	Mexico City, D. F. 1500 w. (B),
			Voz de Veracruz." Relays XETF. s/o: "Vals Poetico." Add: Av. Independencia 28.			Relays XEXX. Ann: Eng, Fr, Sp. Add: Universidad Nacional de Mexico, Justo Sierra No. 16,
			Hrs: 10:30 a.m4:30 p.m.; 7:30 p.m12:30 a.m.			Mexico City. Hrs: 3:30-4:30 p.m.; 8 p.mmldnt.
		•••••	Paris, France. (Essarts). (B). "Radio Coloniale."	9605	HP5J	Panama City, Panama. 1 kw. (B). "La Voz de Panama."
	9560	DJA	Berlin, Germany. (Zeesen). 50 kw. (B). See DJN on 9540.			Add: Manuel Diaz Doce, Aptdo 867. Hrs: 6:30-11 p.m.
			Hrs: 12:05-11 a.m.; 4:50-10:45 p.m.	9606	ZRK	Cape Town, Union of So. Africa. (Klipheuvel). 5 kw. (B). See
		YDB	Sourabaya, Java, N.E.I. 1 kw.			ZRH on 9523 kcs for details.
	9562	OAX4T	(B). Lima, Peru. 10 kw. (B). "Radio	0010	W.T. + D.D.	Hrs: Best time 11:45 p.m.to 12:45 a.m.
			Nacional." Relays OAX4A. Add: Peruvian Gov't., Av.	9018	HJIABP	Cartagena, Colombia. 750 w. (B). "Radio Cartagena." Add:
			Petlt Thouars 447. Hrs: 11:30 a.m1:30 p.m.	9630	HJ7ABD	Aptdo 37. Hrs: 6-10 p.m. Bucaramanga, Colombia. (B).
	9565	VUB	Bombay, India. 4500 w. (B). Add: All India Radio, Irwin			"Radio Bucaramanga." s/o: "La Guabina." Add: Radio
			House, Sprott Road, Ballard Estate.			Bucaramanga, Inc., Aptdo 34. Hrs: Sun. 7:30-9:30 p.m. Week-
	9570	KZRM	Manlia, Philippine Isi. Add: Erianger & Galinger, Inc.,	9635	2RO3	days 11 a.m1 p.m.; 6-11 p.m. Rome, Italy. 25 kw. (B).
		WIXK	Regina Bidg., David St. (X) Boston, Mass. (Mills). 10	0000		"Radio Roma-Napoli." Ann: usually by a lady. s/o: two
			kw. (B). Relays NBC-WBZ- WBZA. Add: Westinghouse			nat'l anthems, "Giovinezza"
			Elec. & Mfg. Co. Hrs: Sun. 8		•	and "Marcha Reale." Add: Ente Italiano per le Audizioni
			a.ml a.m. Other days 6 a.ml a.m.			Radiofoniche, Via Montello 5. Hrs: 12:20 p.m9 p.m.
	9580	W8XK GSC	(X) Putsburgh, Pa. Not used now. London, Gt. Britain. (Daventry)	9636	JFO	Itabushi, Taiwan. (B). Relays JFAK. Add: Kokusai Denwa
			20 kw. (B). "C" for Corporation. See GSB on 9510 kcs. Hrs: 4:15-			Kaisha, Chureki Gai. Shinchiku, Taiwan. Hrs: 6-8:30 a.m.
			6 p.m.; 6-8:30 p.m.; 9:20-11:20 p.m.	9645	ннзw	Port-au-Prince, Haiti. 30 w. (B). Add: C. Ricardo Widmaier,
		VLR	Melbourne, Australia (Lynd- hurst). Hrs: 1-9:45 a.m.	9650	CS2WA	Box A-117. Hrs: 7-8 p.m. Lisbon, Portugal. 2 kw. (B).
	9590	PCJ	Huizen, Netherlands. 20 kw. (B). Ann: Du, Eng, Fr, Ger, Malay,			"Radio Coloniale." Int: 3 cuckoos. Add: Senhor Abilio
			Port, Sp. s/o: Nat'l anthem. Add: Philips' Omroep Holland			Nunes dos Santos, Jr., Av. Antonio Augusto d'Aguiar 136.
			Indie, Emmasingel 29, Eind-			Hrs: Tues., Thur., Sat. 4-7 p.m.
			hoven. Hrs: Sun. 2-3 p.m.; 7-9 p.m. Tues., 1:45-3:30 p.m.	9660	CR6AA	Lobito, Angola, Port. West Africa. 500 w. (B). Add: Box
		VK2ME	Wed. 7-9:30 p.m. Sydney, Australia. (Pennent			103. Hrs: Wed., Sat., 2:45-4:45 p.m.
			Hills). 20 kw. (B). Int: laughing call of the kookaburra. Add:		LRX	Buenos Aires, Argentina. 5 kw. (B). "Radio El Mundo." Relays
			Amalgamated Wireless, (A/sia) Ltd., 47 York St. Hrs: Sun.,			LR1. Add: Calle Maipu 555. Hrs: 10:30 a.m12:30 a.m.
		VK6ME	1-3 a.m.; 5-11 a.m. Perth, Australia. 5 kw. (B).	9670	TI4NRH	Heredia, Costa Rica. 500 w. (B).
			Add: Amalgamated Wireless, (A/sia) Ltd. Hrs: Dally exc			"The Voice of Costa Rica." Add: Amando Cespedes Marin,
		VUD2	Sun. 4-6 a.m. Delhi, India. (B). Hoard 9:30			Aptdo 40. Hrs: Tues., Thurs., Sat., 9-10 p.m. Sun., 7-8 a.m.
		W2XE	p.mmidnt. New York, N. Y. (Wayne, N. J.)	9675	DZA	Send ten cents for veri. Berlin, Germany. (Zeesen).
		W3XAU	Philadelphia, Pa. (Newtown Square). 10 kw. (B). Relays	0695	TGWA	(E). Guatemala City, Guat. 10 kw.
			CBS-WCAU. Add: WCAU Brdcstg. Co., 1622 Chestnut St.	3000	IGHA	(B). "Radio Nacional." Relays TGW. Add: Ministerio de
			Hrs: noon-8 p.m.; 11 p.mmldnt.			Fomento. Verifies FREE.
		W8XAL	Cincinnati, Ohio. (Mason). 10 kw. (B).	9700	•••••	Fort de France, Martinique. 200 w. (B). "Radio Martinique"
	9595	HBL	Geneva, Switzerland. (Pran-			Ann: Eng, Fr, Ger. s/o: "Mar- seillaise." Add: Poste Seri,
			gins). 18 kw. (B). "Radio Nations." Add: Information			Boite 136. Hrs: 6:45-7:45 and irregular.
		RAN	Section, League of Nations. Moscow, U.S.S.R. (B). Add:	9750	COCQ	Havana, Cuba. (B). DRIFTS.
			Radio Center, Solianka 12/ Hrs: 7-9:15 p.m.			"de la RCA-Victor." Relays CMQ, s/o: "Siboney." Add:
	രംഗര	ZHO CB960	Singapore, Straits Settlements. Santiago de Chile. (B). "Radio.		WDL	Calle 25 No. 225, Vedado. (X) Ocean Gate, N. J. 20 kw. (C).
	9600	C D 300	difusora Pilot." s/o: "Rhapsody	9775	WOF COCM	(X) Lawrenceville, N. J. (C). Havana, Cuba. (B). DRIFTS.
			in Blue." Add: Compania Inter- nacional de Radio, Casilla 16-D.			"Radio Columbia."
			Hrs: 6-7:30 p.m.	9000	IRF	Rome, Italy. (E).

9870	WON	(X) Lawrenceville, N. J. 20 kw. (C).			Add: Kokusai Denwa Kaisha, Chureki Gai, Shinchiku, Taiwan.
9890	LSN2	Buenos Aires, Argentina. (C).			Hrs: 9-10:30 p.m.
9925	$\mathbf{J}\mathbf{D}\mathbf{Y}$	Dairen, Kwantung. 10 kw. (B	10578	FYB	Pontoise, France. (C).
		and C). Relays JQAK. Add: Manchuria Telephone and Tele-	10600	ZIK2	Belize, Br. Honduras. (B). British Honduras Gov't. Hrs:
		graph Co., Shotokugai 3, Dairen.			Tues., Thur., Sat., 7:30-7:45
		Hrs: 7-8 a.m.			p.m.
9940	CSW	Lisbon, Portugal. 5 kw. (B).	10610	WEA	(X) Rocky Point, N. Y. 40 kw.
		"Emisora Nacional." Add: Rua do Quelhas. Hrs: 1-8 p.m.	10660	JVN	(C). Nazaki, Japan. (C).
	HRL7	La Lima, Honduras. (C).	10670	CEC	Santiago, Chile. (La Granja).
	JDY	Dairen, Kwantung. Assigned 9925.			4 kw. (C). Add: Cia. Inter-
	WCT	San Juan, Puerto Rico. 400 w.	10700		nacional de Radio, Casilla 16-D.
9950	GCU	(C), Radio Corp. of P.R. Rugby, Gt. Britain. 15 kw. (C).	10700 10740	JVM	Parts, France. "Radio Milan." Nazaki, Japan. 20 kw. (C).
	,	For details see GDP on 7920	10770	GCP	Rugby, Gt. Britain. 15 kw. (C).
9990	KAZ	(X) Manila, Philippine Isl. 40			For details see GDP on 7920.
		kw. (C). Radio Corp. of the	10823		Salamanca, Spain. (B). "Radio
10000	COBC	Philippines. Havana, Cuba. (B). DRIFTS.	10840	KWV	Nacional." (X) Dixon, Calif. 20 kw. (C).
	WWV	Beltsville, Md. 1 kw. Standard	10890	CMA5	Havana, Cuba. (C).
		frequency transmissions on Wed.	10990	ZLT	Wellington, New Zealand. (C).
10049	DZD	from 1:15-2:15 p.m.	11000	PLP	Bandoeng, Java, N.E.I. 1500 w.
10042	DZB	Berlin, Germany. (Zeesen) (E).		ZLT4	(C). Wellington, New Zealand. (C).
10055	suv	Cairo, Egypt. (Abu Zabal). 10		2211	Post & Telegraph Dept.
		kw. (C).	11018	GBTT	R.M.S. "Queen Mary."
	ZFB	(X) Hamilton, Bermuda. (St	11040	CSW	Lisbon, Portugal. 5 kw. (B).
10065	CQN	George). 1500 w. (C). Macau, Portuguese China.	11390	WYK	"Emisora Nactonal." Montgomery, Ala.
	TDE	Shinkio, Manchukuo. (C).	11402	нво	Geneva, Switzerland (Prangins).
		Manchukuo Telephone & Tele-			"Radio Nations." Add: In-
10080	DID	graph Co.			formation Section, League of
10105	RIR TDB	Tiflis, U.S.S.R. (C). Shinkio, Manchukuo. 20 kw.	11410	XTR	Nations. Shanghat, China. (C)
10100		(C). Manchukuo Tele, & Teleg.	11435	COCX	Havana, Cuba. (B). DRIFTS.
		Co.			Relays CMX. "Casa Lavin."
10125	**** ODM	Airways			Add: Aptdo 32. Hrs: Sun. 6-9
10135	OPM	Leopoldville, Belgian Congo. (C). Phones Belgium at 3 a.m.	11470	XTS	p.m. Weekdays 8 a.mmidnt. Swatow, China. (C).
		and 1-4 p.m.	11500	PMK	Bandoeng, Java, N.E.I. (C).
10190	****	American Airlines	11535	SPD	Warsaw, Poland. 2 kw. (B).
10220	PSH	Rio de Janeiro, Brazil. 12 kw. (B). Verifies for IRC or unused			Int: "The Haunted Castle."
		stamps of any country. Relays			Add: Polskie Radjo, 5 Mazo- wiecka St. Hrs: Daily 6-7 p.m.,
		PRF4. Ann: Eng, Fr, It, Ger,			Sun. until 8 p.m.
		Port, Sp. s/o: Nat'l anthem.	11540	XGR	Shanghat, China. (C)
		Add: Cia. Radio Internacional do Brasil, Caixa 709. Hrs: 6-9	11595 11660	VRR4 JVL	Stoney Hill, Jamaica. (C) Nazaki, Japan. (C).
		p.m.	11670	PPQ	Rio de Janeiro, Brazil. (Santa
10230	CED	Antofagasta, Chile. (C). Owner:			Cruz). (C). Add: Cia. Radio-
10250	LSK3	Cia. de Telefonos de Chile.			telegraphica Brasileira, Caixa
10250	T9F9	Buenos Aires, Argentina. (Hurlingham). 5 kw. (C).	11680	KIO	500. (X) Kahuku, Hawaii. (C).
10260	PMN	Bandoeng, Java, N.E.I. 1500 w.	11700	CB1170	Santiago de Chile. 1 kw. (B).
		(C). Owner: Gouvernements			"Radio Otto Becker." Relays
10290	F Z C	Radio-Dienst. Hrs: 5:30-11 a.m. Berlin, Germany (Zeesen). (E).			CB89. s/o: "Unsere Marine," march. Add: Otto Becker,
	LSL2	Buenos Aires, Argentina. (C).			Casilla 706. Hrs: Sun. 9 a.m
10310	PPM	Rio de Janeiro, Brazil. (Mara-			11 p.m. Weekdays 10 a.m2
10000	OBT	pieu). (C).		Y770 f 4	p.m.; 4-11 p.m.
10330	ORK	Brussels, Belgium. (Ruys- selede). 11 kw. (C).		HP5A	Panama City, Panama. 300 w. (B). "Radio-Teatro Estrella de
10335	ZFD	(X) Hamilton, Bermuda (St.			Panama." s/o: "Anvil Chorus."
		George). 1500 w. (C).			Add: Radio-Teatro, Inc., Aptdo
10350	LSX	Buenos Aires, Argentina. (Monte Grande). 20 kw. (B and E).			954. Hrs: Sun. 9 a.m1 p.m.;
		Add: Cia. Radiotelegrafica Arg.,			6-10 p.m. Weekdays 11:45 a.m 1 p.m.; 6-10 p.m.
		S. A., San Martin 329.			Saigon, French Indo-China. (B).
10370	,	Salamanca, Spain. (B). "Radio			"Radio Philco." Add: Rue
	EAJ43	Nacional." Santa Cruz de Teneriffe, Canary	11705	SBP	Cantinat. Hrs: 5-11 a.m. Stockholm, Sweden. (Motala).
	PULL	Islands. Add: Box 225.	11,00	221	500 w. (B). s/o: nat'l anthem.
10400	KEZ	(X) Bolinas, Calif. (C).			Add: Telegrafverket Tjanste-
10420	XGW	Shanghai, China.			brev No. 5. Hrs: Sat. 1:20-2 a.m.;
10430	TYE3	Pontoise, France. (C).			6 a.m1:30 p.m. Sun., 3 a.m 1:30 p.m. Other days, 1:20-
10535	JIB	Taihoku, Taiwan. (Chureki).			2 a.m.; 6-9 a.m.; 11 a.m1:30
		6 kw. (B and C). Relays JFAK.			p.m.

The shortwave list will be concluded in the June issue.

WHAT'S ON THE AIR TONIGHT

Fill in the calls and frequencies of the stations through which you best receive the network programs. You can then turn quickly to the one that has the feature you want.

Network	Stations
Canadian (CBC)	
Columbia (C)	
Mutual (M)	
National Red (R)	
National Blue (B)	

Time: ED Eastern Daylight; E Eastern; C Central; M Mountain
While these programs are correct at the time of going to press, changes are made frequently.

MONDAY

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

KDAL KFAB KFH KGKO KGLO KLRA KMBC KMOX KNOW KOMA KRLD KRNT KSCJ KTRH KTSA KTUL KWKH WABC WACO WADC WAPI WBBM WBIG WBNS WBT WCAO WCAU WCCO WCHS WDAE WDBJ WDBO WDOD WDRC WEEL WEOA WFAM WFBL WFBM WGAR WGST WHAS WHEC WHIO WHP WIBW WISN WJAS WJR WKBB WJSV WKBH WKBN WKBW WKRC WMBR WLAC WNAX WMBD WNOX WOC WOKO WORC WPRO WQAM WREC WRVA WTAQ WWL WWVA

ED-6:45 p.m., E-5:45, C-4:45, M-3:45 B — Lowell Thomas

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

C — Lum and Abner

KFAB KMBC KMOX KNOW KOMA KRLD KRNT KTRH KTSA KTUL WABC WBBM WBNS WBT WCAO WCAU WCOA WDAE WDBJ WDRC WEEI WFBL WFBM WGAR WGST WHAS WHEC WHIO WJR WJSV WKBW WKRC WLAC WMBR WOKO WPRO WQAM WREC WRVA

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

C—Entertainment; Jack Fulton WABC WADC WBT WCAO WCAU WDRC WEAN WEEI WFBL WGR WHEC WHK WJAS WJR WJSV WKRC WOKO WSPD WTOC WWVA

R — Amos 'n' Andy
KSD KSTP KYW WBEN WCAE
WCSH WEAF WFBR WGY WHO
WJAR WLW WNAC WRC WTAG
WTAM WTIC WWJ

ED-7:15 p.m., E-6:15, C-5:15, M-4:15 R — Uncle Ezra's Radio Station KARK KFYR KGBX KGNC KPRC KSTP KTBS KTHS KVOO KYW WBAP WBEN WCAE WCKY WCOL WCSH WDAF WDAY WEAF WEBC WFAA WFBR WGBF WGY WHO WIBA WIRE WJAR WKY WMAQ WNAC WOAI WOOD WOW WRC WTAG WTAM WTIC WTMJ

ED-7:30 p.m., E-6:30, C-5:30, M-4:30 - Eddie Cantor; Deanna Durbin KDAL KFAB KFH KGKO KGLO KLRA KMBC KMOX KNOW KOMA KRLD KRNT KSCJ KTRH KTSA KTUL KWKH WABC WADC WALA WBBM WBIG WBNS WBT WCAO WCAU WCCO WCHS WDAE WDBJ WDBO WDNC WDOD WDRC WEEI WEOA WFAM WFBL WGAR WGBI WGR WGST WHAS WHEC WHIO WHLB WHP WIBW WIBX WISN WJAS WJNO WJR WKSV WKBH WKBN WKRC WLAC WLBZ WMAS WMBR WMFG WMMN WMBD WNAX WNBF WNBX WNOX WOC WOKO WORC WPRO WOAM WREC WRVA WSFA WTAQ WTOC WWL

M — The Lone Ranger WFII, WNBF WSYR WOR WXYZ

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

C — Monday Night Show KDAL KGLO KLRA KMOX WABC WADC WBRK WCAU WCCO WDRC WEEI WFBL WGAR WGR WHLB WJAS WJR WKRC WLBZ WMAS WMFG WNAX WNBX WOC WOKO WORC WPRO

R — Burns and Allen

CRCT KYW WBEN WCAE WCSC WCSH WEAF WFBR WFLA WGY WHO WIOD WIRE WIS WJAR WJAX WLW WMAQ WNAC WPTF WRC WRVA WSOC WTAG WTAM WTAR WTIC WWJ

ED-8:30 p.m., E-7:30, C-6:30, M-5:30 C — Pick and Pat

KFAB KMBC WABC WADC WBBM
WBT WCAO WCAU WDRC WEAN
WFBL WGR WGST WHEC WHK
WHP WICC WJAS WJR WJSV
WKRC WLBZ WMAS WNAC WOKO
WORC WSPD

R - Voice of Firestone

CFCF CRCT KFYR KPRC KSD KSTP KTBS KVOO KYW WAVE WBEN WCAE WCSC WCSH WDAF WDAY WEAF WEBC WEEI WFAA WFBC WFBR WFLA WGY WHO WIBA WID WIFF WFA WHO WIFF WFA WHO WOAI WOW WPTF WRC WRVA WSB WSM WSMB WSOC WTAG WTAM WTAR WTIC WTMJ WWJ WWNC

B — Those We Love KDKA KDYL KFI KHQ KOA KOIL KOMO KPO KSO KWK WABY WBAL WBZ WBZA WCKY WEAN WEBR WFIL WHAM WHK WIBA WICC WJZ WLS WMAL WMT WREN WSPD WSYR WTAR WXYZ

ţ

ED-8:45 p.m., E-7:45, C-6:45, M-5:45 C — Boake Carter KFPY KGAR KIRO KLZ KNX KOIN KOY KSFO KSL KVI KVOR

ED-9:00 p.m., E-8:00, C-7:00, M-6:00 B — Philadelphia Symphony

KFEL KGO KSO KVOD KWK KXYZ WBAL WBZ WBZA WEAN WEBR WENR WFIL WHAM WJTN WJZ WIS WMAL WREN WRTD WSPD WSYR WTCN WXYZ

C - Lux Radio Theater CFRB CKAC KFAB KFH KFPY KLRA KLZ KMBC KMOX KNOW KOL KOIN KOH KNX KOMA KRLD KRNT KSFO KSL KTRH KTSA KTUL KVI WABC WADC WBBM WBNS WBRC WBT WCAO WCCO WDAE WDBJ WDRC WEEI WFBL WFBM WGAR WGST WHAS WHEC WHIO WIBX WISN WJAS WJR WJSV WKBW WKRC WLAC WMAS WMBD WNAX WOKO WORC WPRO WQAM WREC WRVA WWL

Also on Canadian Network R — Phil Spitalny's Girl Orchestra CBL CBM KDYL KFI KGHL KGIR KGW KHQ KIDO KOA KOMO KPO KPRC KSD KSEI KSTP KTAR KVOO KYW WAVE WBEN WBRC WCAE WCSH WDAF WDEL WEAF WFAA WFBR WFLA WGY WHO WIBA WIOD WIRE WIS WJAR WJAX WKY WLW WMAQ WMBG WNAC WOAI WOW WMC WPTF WSB WSM WSMB WSOC WRC WTAG WTAM WTAR WTIC WTMJ ww.j

ED-10:00 p.m., E-9:00, C-8:00, M-7:00 R — Contented Program

CFCF CRCT KDYL KFI KGW KHQ
KOA KOMO KPO KPRC KSD KYW
WBEN WCAE WCSH WDAF WEAF
WEEI WFBR WFLA WGY WHO
WIOD WIS WJAR WJAX WKY
WMAQ WMC WOAI WOW WPTF
WRC WRVA WSB WSM WTAG
WTAM WTAR WTIC WWJ WWNC
Also on Canadian Network

B — Warden Lewis E. Lawes KDKA KECA KFSD KGA KGO

MONDAY (Continued)

KJR KLO KOIL KSO KVOD KWK WBAL WBZ WBZA WCKY WEAN WEBR WENR WFIL WHAM WHK WICC WJZ WMAL WMT WOWO WREN WSPD WSYR WTCN WXYZ

C — Wayne King and Orchestra
KDB KERN KFAB KFBK KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRNT KSL KVI
KWG WAAB WABC WADC WBBM
WBNS WBT WCAO WCAU WCCO
WDRC WEAN WFBL WFBM WHAS
WHK WIBW WJAS WJR WJSV
WKBW WKRC WOKO WSPD WWL

ED-10:30 p.m., E-9:30, C-8:30, M-7:30 C — Eddie Cantor; Deanna Durbin KFPY | KGAR | KIRO | KLZ | KNX KOIN KOY KSFO | KSL | KVI | WFBM

R — Burns and Allen
KARK KDYL KFBK KFI KFYR
KFBX KGHL KGIR KGNC KGO
KGW KHQ KMJ KOA KOMO KPO
KPRC KSD KSTP KTAR KTBS
KVOO KWG WAVE WDAF WDAY
WEBC WFAA WIBA WJDX WKY
WMC WOAI WOW WSB WSMB

M — The Lone Ranger
KDB KDON KFRC KFXM KGB
KGDM KHJ KPMC KVOE KXO
Available also to West Coast Soction

ED-11:00 p.m., E-10:00, C-9:00, M-8:00
C—Entertainment; Jack Fulton
KERN KFAB KFBK KFPY KFRC
KGB KHJ KLRA KLZ KMBC KMOX
KOIN KOL KOMA KRLD KRNT
KSL KTRH KTSA KVI WBBM
WBRC WCCO WFBM WGST WLAC
WREC WWL

R — Amos 'n' Andy
KDYL KERN KFBK KFI KGW
KHQ KMJ KOA KOMO KPO KPRC
KSD KWG WDAF WFAA WHO
WIRE WKY WMAQ WMC WOAI
WOW WSB WSM WSMB

ED-11:30 p.m., E-10:30, C-9:30, M-8:30 C — Pick and Pat

KFPY KGKO KLRA KLZ KMOX KNX KOIN KOL KOMA KRLD KRNT KSCJ KSFO KSL KTUL KVI KWKH WACO WBRC WCCO WFBM WHAS WLAC WREC

TUESDAY

ED-6:30 p.m., E-5:30, C-4:30, M-3:30 C — Boake Carter. see Monday

ED-6:45 p.m., E-5:45, C-4:45, M-3:45 B — Lowell Thomas, See Monday

ED-7:00 p.m., E-6:00, C-5:00, M-4:00 C — Jack Fulton, See Monday R — Amos 'n' Andy, See Monday

dl

静

ΠŮ

M

11

NC.

GO

B — Easy Aces
KDKA KDYL KFI KGW KHQ KOA
KOIL KOMO KPO KSO KWK WBAL
WBZ WBZA WCKY WENR WFIL
WGAR WHAM WHIO WIRE WJZ
WMAL WMT WSYR WXYZ

ED-7:15 p.m., E-6:15, C-5:15, M-4:15
C — Geo. McCall, Hollywood Talk
KFAB KFH KLRA KMOX KNOW
KOMA KRLD KRNT KTRH KTSA
KWKH WABC WADC WBBM WBNS
WBT WCAO WCAU WCCO WCHS
WDAE WDBO WDOD WDRC WEEI
WFBL WGAR WGBI WGST WHAS
WHEC WHIO WIBW WISN WJAS

WJR WJSV WKRC WLAC WMAS WMBR WOC WOKO WORC WPRO WQAM WREC WRVA WWL

ED-7:30 p.m., E-6:30, C-5:30, M-4:30 C — Helen Menken, Drama

KFAB KFPY KIRO KLZ KMBC
KMOX KNX KOIN KRNT KSFO
KSL KVI WABC WBBM WCAO
WCAU WDRC WEEI WFBL WGAR
WGR WHAS WHEC WHIO WJAS
WJR WJSV WKRC WOKO WORC

B — Dorothy Thompson; News WBAL WBZ WBZA WENR WHAM WJZ WSYR

ED-8:00 p.m., E-7:00, C-6:00, M-5:00 R — Johnny with Russ Morgan

KFYR KPRC KSD KSTP KTBS
KTHS KVOO KYW WAVE WBAP
WBEN WCAE WCSH WDAF WDAY
WEAF WEBC WFBR WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WNAC WOW WPTF WRC
WRVA WSB WSM WSMB WSOC
WSUN WTAG WTAM WTAR WTIC
WTMJ WWJ WWNC

C—Edward Robinson; Claire Trevor
CBM CFRB KFAB KFH KFFY
KIRO KLRA KLZ KMBC KMOX
KNOW KNX KOIN KOMA KRLD
KRNT KSFO KSL KTRH KTSA
KTUL KVI WABC WADC WBBM
WBNS WBRC WBT WCAO WCAU
WCCO WDAE WDBJ WDRC WEEI
WFBL WFBM WGAR WGR WGST
WHAS WHEC WHIO WIBX WISN
WJAS WJR WJSV WKRC WLAC
WMAS WMBD WNAX WOKO WORC
WPRO WQAM WREC WRVA WWL
Also on Canadian Network

ED-8:30 p.m., E-7:30, C-6:30, M-5:30 C — Al Joison; Parkyakarkus

CFRB CRCM KFAB KFH KLRA KMBC KMOX KNOW KOMA KRLD KRNT KTRH KTSA KTUL WABC WADC WBBM WBNS WBRC WBT WCAO WCAU WCCO WDAE WDBJ WDRC WEEI WFBL WFBM WGAR WGST WHAS WHEC WHIO WIBX WISN WJAS WJR WJSV WKRC WLAC WMAS WMBD WNAX WOKO WORC WPRO WQAM WREC WRVA WWL

Also on Canadian Network

R—Wayne King and Orchestra
KFYR KPRC KSD KSTP KTBS
KVOO KYW WAVE WBAP WBEN
WCAE WCKY WCSH WDAF WDAY
WEAF WEBC WEEI WFBR WGY
WHO WHIO WIBA WIRE WJAR
WJDX WKY WMAQ WMC WOAI
WOW WRC WSB WSM WSMB
WTAG WTAM WTIC WTMJ WWJ

ED-8:45 p.m., E-7:45, C-6:45, M-5:45 C — Boake Carter, see Monday

ED-9:00 p.m., E-8:00, C-7:00, M-6:00 C — Al Pearce and Gang CFRB CKAC KFAB KFH KGKO

CFRB CKAC KFAB KFH KGKO KLRA KMBC KMOX KOMA KRLD KRNT KSCJ KTRH KTSA KTUL KWKH WABC WACO WADC WALA WBBM WBIG WBNS WBRC WBT WCAQ WCAU WCCO WDAE WDBJ WDBO WDNC WDOD WDRC WEAN WFBL WFBM WFEA WGST WHAS WHEC WHK WHP WIBW WIBX

WICC WISN WJAS WJR WJSV WKBH WKBN WKBW WKRC WLAC WLBZ WMAS WMBD WMBG WMBR WMMN WNAC WNAX WNBF WNOX WOC WOKO WORC WOWO WPG WQAM WREC WSBT WSFA WSJS WSPD WTOC WWL

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

B — Horace Heidt Orchestra
KANS KDKA KFI KFSD KGA KGO
KGW KJR KLO KOIL KPRC KSO
KTHS KVOD KWK WAVE WBAL
WBAP WBZ WBZA WEAN WEBR
WFIL WFLA WHAM WHK WICC
WIOD WIS WJAX WJZ WKY WLS
WLW WMAL WMC WMT WOAI
WPTF WREN WSB WSM WSMB
WSOC WSPD WSUN WSYR WTAR

R — Fibber McGee and Molly
CFCF CRCT KDYL KFI KGHL
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KTBS KVOO
KYW WAVE WBAP WBEN WCAE
WCOL WCSC WCSH WDAF WDEL
WEAF WEBC WFBR WFLA WGY
WHO WIBA WIOD WIRE WIS
WJAR WJAX WKY WMAQ WMBG
WMC WNAC WOAI WOOD WOW
WRC WSB WSM WSMB WSOC
WTAG WTAM WTAR WTIC WTMJ

ED-10:00 p.m., E-9:00, C-8:00, M-7:00 C — Time To Shine

Station list not available.

ED-10:30 p.m., E-9:30, C-8:30, M-7:30 R — Jimmy Fidler Hollywood Gossip KDYL KFI KGW KHQ KOA KOMO KPO KSD KTAR KYW WBEN WCAE WCSH WDAF WEAF WFBR WGY WHO WJAR WLW WMAQ WNAC WOOD WOW WRC WTAG WTAM WTIC WWJ

ED-10:45 p.m., E-9:45, C-8:45, M-7:45 R — Dale Carnegie; Winning Friends KDYL KFI KGW KHQ KOA KOMO KPO KSD KSTP KYW WBEN WCAE WCSH WDAF WDEL WEAF WFBR WGY WHO WIRE WJAR WLW WMAQ WNAC WOW WRC WTAG WTAM WTIC WWJ

ED-11:00 p.m., E-10:00, C-9:00, M-8:00 R — Amos 'n' Andy, See Monday

TUESDAY (Continued)

ED-11:15 p.m., E-10:15, C-9:15, M-8:15 C—Geo. McCail, Hollywood Talk KFPY KIRO KLZ KMBC KNX KOIN KSFO KSL KVI

ED-11:30 p.m., E-10:30, C-9:30, M-8:30 C — Al Joison; Parkyakarkus KFPY KLZ KNX KOIN KOL KSFO KSL KVI Also on Canadian Network

ED-Midn't., E-11:00, C-10:00, M-9:00 C — Al Pearce and Gang KFBB KFPY KGVO KLZ KNX KOH KOIN KOL KOY KSFO KSL KYI KVOR

WEDNESDAY

ED-6:30 p.m., E-5:30, C-4:30, M-3:30 C — Boake Carter, see Monday

ED-6:45 p.m., E-5:45, C-4:45, M-3:45 B — Lowell Thomas, See Monday C — Lum and Abner, see Monday

ED-7:00 p.m., E-6:00, C-5:00, M-4:00 C — Jack Fulton, 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 R — Uncle Ezra, See Monday

ED-7:30 p.m., E-6:30, C-5:30, M-4:30 M — Lone Ranger, see Mon.

ED-7:45 p.m., E-6:45, C-5:45, M-4:45 R — "Cheer Up"; Henry Burbig KYW WEAF WENR WTAM

ED-8:00 p.m., E-7:00, C-6:00, M-5:00 C — Cavalcade of America KDB KERN KFAB KFBK KFPY KFRC KGB KHJ KLZ KMBC KMJ KMOX KOIN KOL KRLD KRNT KSL KVI KWG WABC WBBM WBNS WCAU WCCO WDRC WEAN WFBL WFBM WGR WHAS WHEC WHK WJAS WJR WJSV WKRC WLAC WMBG WNAC WOKO WTOC WWL

R - One Man's Family

KDYL KFI KFYR KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTAR KTBS KTHS KVOO KYW WAPI WAVE WBAP WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFAA WFBR WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WLW WMAQ WMC WOAI WOW WPTF WRC WRVA WSB WSM WSMB WSOC WSUN WTAG WTAM WTAR WTIC WTMJ WWJ WWNC

Also on Canadian Network

ED-8:30 p.m., E-7:30, C-6:30, M-5:30 C — Ben Bernie; Lew Lehr KDAL KFAB KFBB KFH KFPY KGAR KGKO KGLO KIRO KLRA KLZ KMBC KMOX KNOW KNX KOH KOIN KOMA KOY KRLD KRNT KSCJ KSFO KSL KTRH KTSA KTUL KVI KVOR KWKH WABC WACO WALA WBBM WBIG WBNS WBT WCAO WCAU WCCO WCHS WCOA WCOC WDAE WDBJ WDBO WDNC WDOD WDRC WEEJ WEOA WFBL WFBM WGAR WGBI WGST WHAS WHEC WHIO WHLB WHP WIBW WIBX WISN WJAS WJNO WJR WJSV WKBB WKBH WKBW WKRC WLBZ WMAS

WMBD WMBR WMFG WMMN WNAX WNBF WNBX WNOX WOC WOKO WORC WPG WPRO WQAM WREC WRVA WSBT WSFA·WSJS WTAQ WTOC WWL

B — Harriet Parsons

KDKA KECA KFEL KFSD KGA KGO KJR KLO KOIL KSO KWK WBAL WBZ WBZA WCKY WEAN WEBR WFIL WHAM WHK WICC WJZ WIS WMAL WMT WOWO WREN WSPD WSYR WXYZ

R — Tommy Dorsey Orchestra
KDYL KFI KGW KHQ KOA KOMO
KPO KPRC KSD KSTP KTBS KYW
WAVE WBEN WBRC WCAE WCSH
WDAF WDEI. WEAF WFAA WFBR
WFI.A WGY WHO WIOD WIRE
WIS WJAR WJAX WKY WLW
WMAQ WMBG WMC WNAC WOOD
WOW WPTF WRC WSB WSM
WSMB WSUN WTAG WTAM WTAR
WTIC WWJ WWNC

ED-8:45 p.m., E-7:45, C-6:45, M-5:45 C — Boake Carter, see Monday

ED-9:00 p.m., E-8:00, C-7:00, M-6:00 C — Chesterfield: Andre Kostelanetz KDB KERN KFAB KFBK KFH KFPY KFRC KGB KGKO KGMB KHJ KLKA 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 WBRC WBT WCAO WCAU WCCO WCOA WDAE WDBG WDBO WDNC WDOD WDRC WEAN WFBL WFBM WFEA WGST WHAS WHEC WHK WHP WIBW WIBX WICC WISN WJAS WJR WJSV WKBH WKBW WKRC WLAC WLBZ WMBR WMBG WMAS WMBD WNAC WNAX WNBF WNOX WOC WOKO WORC WOWO WPG WQAM WREC WSFA WSJS WSPD WTOC wwr.

R — Town Hall Tonight

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

ED-10:00 p.m., E-9:00, C-8:00, M-7:00 C — Crime Crusade; Phil Lord

KDB KERN KFAB KFBK KFH
KFPY KFRC KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOL
KOMA KRLD KRNT KSL KTRH
KTSA KTUL KVI KWG KWKH
WABC WACO WBBM WBNS WBRC
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDRC WEAN WFBL
WFBM WGST WHAS WHEC WHK
WICC WISN WJAS WJR WJSV
WKBW WKRC WLAC WLBZ WMBG
WMBR WNAC WOKO WORC WOWO
WQAM WREC WTOC WWL

R — Kay Kyser Orchestra
KARK KDYL KERN KFBK KFI
KFYR KGBX KGHL KGIR KGNC
KGU KGW KHQ KIDO KMJ KOA
KOB KOMO KPO KPRC KSD KSEI
KSTP KTAR KTBS KTHS KTSM
KWG KYW WAVE WBEN WBRC

WCAE WCSC WCSH WDAF WDAY WDEL WEAF WEBC WFAA WFBC WFBR WFLA WFLA WGL WGY WHO WIBA WIOD WIRE WIS WJAR WJAX WJDX WKY WLW WMAQ WMBG WMC WNAC WOAI WOOD WORK WOW WPTF WRC WSB WSM WSMB WSOC WSUN WTAG WTAM WTAR WTIC WTMJ WWJ WWY WNC

ED-10:30 p.m., E-9:30, C-8:30, M-7:30 C— It Can Be Done
KFAB KMBC KMOX KRNT WABC
WBBM WBNS WCAU WCHS WDRC
WEEI WFBL WFBM WHAS WHEC
WHIO WIBX WJAS WJR WKBW
WMAS WNBF WOC WOKO WORC

M — Lone Ranger, see Mon.

WPRO

ED-11:00 p.m., E-10:00, C-9:00, M-8:00 C — Jack Fulton, See Monday R — Amos 'n' Andy, See Monday

ED-11:30 p.m., E-10:30, C-9:30, M-8:30 C — Ben Bernie; Lew Lehr KARM KFBB KFPY KGAR KIRO KLZ KNX KOH KOIN KOMA KOY KSFO KSL KVI

THURSDAY

ED-6:30 p.m., E-5:30, C-4:30, M-3:30 C — Boake Carter, see Monday

ED-6:45 p.m., E-5:45, C-4:45, M-3:45 B — Lowell Thomas, See Monday

ED-7:00 p.m., E-6:00, C-5:00, M-4:00 C — Jack Fulton, See Monday R — Amos 'n' Andy, See Monday

ED-7:15 p.m., E-6:15, C-5:15, M-4:15 C — Geo. McCall, see Tues.

B — Easy Aces, See Tuesday

ED-7:30 p.m., E-6:30, C-5:30, M-4:30 C — "We, The People."

KFAB KMBC KMOX KNOW KOMA KRLD KRNT KSCJ KTRH KTSA KTUL WABC WBBM WBNS WCAO WCAU WCCO WDAE WDBO WDRC WEEI WFBL WGAR WGR WHAS WHEC WHIO WHP WIBX WISN WJAS WJR WJSV WKRC WMBD WMBR WOC WOKO WPRO WQAM

ED-8:00 p.m., E-7:00, C-6:00, M-5:00 C — Kate Smith; Jack Miller CFRB CRCM KDAL KFAB KFH KGKO KLRA KMBC KMOX KNOW KOMA KRLD KRNT KSCJ KTRH KTSA KTUL KWKH WABC WACO WADC WBBM WBNS WBRC WBT WCAO WCAU WCCO WDAE WDBJ WDBO WDOD WDRC WEEI WEOA WFBL WFBM WGAR WGR WGST WHAS WHEC WHIO WHP WIBW WISN WJAS WJR WJSV WKBN WKRC WLAC WLBZ WMBD WMBR WNAX WNOX WOC WOKO WORC WPRO WQAM WRVA WREC WSFA WTAQ WWL

R—Rudy Vallee's Variety Hour CFCF CRCT KDYL KFI KFYR KGW KHQ KOA KOMO KPO KSD KSTP KTAR KYW WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFBR WGY WHO WJAR WLW WMAQ WOW WRC WTAM WTIC WTMJ WWJ

THURSDAY (Continued)

B - The March of Time KDKA KECA KERN KFBK KFEL KFSD KGA KGO KJR KLO KMJ KOIL KSO KWG KWK KXYZ WABY WAGA WBAL WBZ WBZA WCKY WCOL WCSC WDSU WEAN WEBR WFIL WHAM WHK WICC WJZ WLS WMAL WMPS WMT

ED-8:45 p.m., E-7:45, C-6:45. M-5:45 C - Boake Carter, see Monday

WREN WSPD WSYR WXYZ

ED-9:00 p.m., E-8:00, C-7:00, M-6:00 C — Major Bowes' Amateurs CFRB CKAC KDB KERN KFAB KFBK KFH KFPY KFRC KGB KGKO KLRA KLZ KMBC KMJ KGKO KLIGA KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRLD
KRNT KSCJ KSL KTRH KTSA
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM WBIG WBNS WBRC WBT WCAO WCAU WCCO WCOA WDAE WDBJ WDBO WDNC WDOD WDRC WEAN WFBL WFBM WFEA WGST WHAS WHEC WHK WHP WIBW WIBX WICC WISN WJAS WJR WJSV WKBN WKBW WKRC WLAC WLBZ RAMW WMBD WMBG WMBR WMMN WNAC WNAX WOC WOKO WORC WOWO WPG WQAM WREC WSFA WSJS WSPD WTOC WWL

R - MGM Program

CRCT KDYL KERN KFBK KFI KFYR KGHL KGIR KGNC KGW KMJ KOA KOMO KPO KPRC KSD KSTP KTBS KWG KYW WAPI WAVE WBAP WBEN WCAE WCSH WDAF WDAY WEBC WFBR WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WLW WMAQ WMBG WMC WNAC WOAI WOOD WPTF WRC WSB WSM WSMB WSOC WSUN WTAG WTAM WTAR WTIC WTMJ WWJ WWNC

ED-10:00 p.m., E-9:00, C-8:00, M-7:00 R — Bob Burns; Bing Crosby

CFCF CRCT KDYL KFI KFYR KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTAR KTBS KTHS KVOO KYW WAVE WBAP WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEL WFBR WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WLW WMAQ WMC WOAI WOW WPTF WRC WRVA WSB WSM WSMB WSOC WTAG WTAM WTAR WTIC WTMJ WWJ WWNC

Also on Canadian Network

ED-11:00 p.m., E-10:00, C-9:00, M-8:00 C - Jack Fulton, See Monday R - Amos 'n' Andy, See Monday

ED-11:15 p.m., E-10:15, C-9:15, M-8:15 C — Kate Smith; Jack Miller KFBB KFPY KGVO KIRO KLZ KNX KOIN KOY KSFO KSL KVI KVOR

FRIDAY

ED-6:30 p.m., E-5:30, C-4:30, M-3:30 C - Boake Carter, see Monday

ED-6:45 p.m., E-5:45, C-4:45, M-3:45 B - Lowell Thomas, See Monday C - Lum and Abner, see Monday

ED-7:00 p.m., E-6:00, C-5:00, M-4:00 R - Frank Munn; Abe Lyman C - Jack Fulton, See Monday Amos 'n' Andy, See Monday

ED-7:15 p.m., E-6:15, C-5:15, M-4:15 R-Uncle Ezra, See Monday

ED-7:30 p.m., E-6:30, C-5:30, M-4:30 M - Lone Ranger, see Mon.

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

ED-8:00 p.m., E-7:00, C-6:00, M-5:00 R - Cities Service Concert

CRCT CFYR KOA KPRC KSD KSTP KTBS KTHS KVOO KYW WBAP WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFAA WFBR WGY WHO WIBA WIOD WJAR WKY WMAQ WOAI WOW WRC WRVA WSAI WTAG WTAM WTIC WTMJ WWJ

ED-8:30 p.m., E-7:30, C-6:30, M-5:30 C — Paul Whiteman; Deems Taylor KFAB KFH KGKO KLRA KMBC KMOX KOMA KRLD KRNT KSCJ KTRH KTSA KTUL KWKH WABC WACO WADC WALA WBBM WBIG WBNS WBRC WBT WCAO WCAU WCCO WCOA WDAE WDBJ WDBO WDNC WDOD WDRC WEEI WFBL WFBM WFEA WGR WGST WHAS WHEC WHIO WHK WHP WIBW WIBX WISN WJAS WJR WJSV WKBN WKRC WLAC WLBZ WMAS WMBG WMBR WMBD WMMN WNAX WNBF WNOX WOC WOKO WORC WOWO WPG WPRO WQAM WREC WSFA WSJS WSPD WTOC WWI.

B — Death Valley Days

KDKA KDYL KFI KGW KHQ KOIL KOMO KPO KSO KWK WBAL WBZ WBZA WFIL WGAR WHAM WJZ WLS WLW WMAL WMT WREN WSYR WXYZ

ED-8:45 p.m., E-7:45, C-6:45, M-5:45 C - Boake Carter, see Monday

ED-9:00 p.m., E-8:00, C-7:00, M-6:00 B - Royal Crown Revue

KDKA KFEL KLO KOIL KPRC KSO KTAR KTBS KVOO KWK WABY WAVE WBAL WBRC WBZ WBZA WCSC WEAN WEBC WEBR WFAA WFBC WFIL WFLA WHAM WICC WIOD WIS WJAX WJDX WJZ WKY WLS WLW WMAL WMC WMT WOAI WOWO WPTF WREN WROL WRTD WSB WSM WSMB WSOC WSPD WSUN WSYR WTAR WTCN WWNC WXYZ

C — Hollywood Hotel

CFRB CKAC KDB KERN KFAB KFBK KFH KFPY KFRC KGB KHJ KLRA KLZ KMBC KMJ KMOX KOIN KOL KOMA KRLD KRNT KSCJ KSL KTRH KTSA KTUL KVI KVOR KWG KWKH WABC WADC WBBM WBNS WBRC WBT WCAO WCAU WCCO WDAE WDBJ WDBO WDRC WEAN WFBL WFBM WFEA WGST WHAS WHEC WHK WHP WIBW WIBX WICC WJAS WJR WJSV WKBW WKRC WLAC WLBZ WMBD WMBG WMBR WMAS WNAC WNAX WNOX WOKO WORC WPG WQAM WREC WSPD WWL Also on Canadian Network

KSD KYW WBEN WCAE WCSH WDAF WEAF 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

KSD KYW WBEN WCAE WCSH WEAF WEEL WFBR WGY WHO WHIO WJAR WMAQ WOW WRC WTAG WTAM WTIC WWJ

ED-10:00 p.m., E-9:00, C-8:00, M-7:00 - Alice Cornett; Reed Kennedy C — Alice Cornett; Reed Kennedy
KDAL KFAB KFBB KFH KFPY
KGKO KGLO KGVO KRLA KLZ
KMOX KNOW KNX KOH KOIN
KOL KOMA KOY KRLD KRNT
KSCJ KSFO KSL KTRH KTSA
KTUL KVI KVOR KWKH WABC WACO WADC WALA WBBM WBIG WBNS WBRC WBT WCAO WCAU WCCO WCHS WCOA WCOC WDAE WDBJ WDBO WDNC WDOD WDRC WEEI WEOA WFBL WFBM WGAR WGBI WGST WHAS WHEC WHIO WHP WIBW WIBX WISN WJAS WJNO WJR WJSV WKBB WKBW WKRC WLAC WLBZ WMAS WMBD WMBR WMMN WNBF WNOX WOC WOKO WORC WPAR WPG WPRO WOAM WREC WRVAWSBT WSFA WSJS WTOC WWL

CBC — Canada 1938

CBF CBL CBM CBO CBR CBW CFAC CFCF CFCH CFCN CFCO CFCY CFJC CFNB CFPL CFQC CHAB CHNS CHRC CHSJ CHWK CJAT CJCA CJCB CJIC CJKL CJOC CKBI CKCK CKCW CKGB CKOV CKOC CKPR CKSO CKX CKY

R — First Nighter; Drama

KDYL KFI KFYR KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTBS KTHS KYW WAVE WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEL WFAA WFBR WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WLW WMAQ WMC 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 M - Lone Ranger, see Mon.

R — Jimmy Fldler

KDYL KFI KGW KHQ KOA KOMO KPO KSD KSTP KYW WBEN WCAE WCSH WDAF WDEL WEAF WFBR WGY WIBA WIRE WJAR WLW WMAQ WNAC WOW WRC WTAG WTAM WTIC WTMJ WWJ

ED-10:45 p.m., E-9:45, C-8:45, M-7:45 R — Dorothy Thompson—News KDYL KFI KGW KHQ KOA KOMO

KPO KSD KSTP KYW WBEN WCAE WCSH WDAF WDEL WEAF WFBR WGY WIRE WJAR WLW WMAQ WNAC WOW WRC WTAG WTAM WTIC WWJ

ED-11:00 p.m., E-10:00, C-9:00, M-8:00 C - Jack Fulton, See Monday R - Amos 'n' Andy, See Monday

ED-11:15 p.m., E-10:15, C-9:15, M-8:15 C — Boake Carter, See Monday

FRIDAY (Continued)

ED-11:30 p.m., E-10:30, C-9:30, M-8:30 C — Paul Whiteman; Deems Taylor KFBB KFPY KGAR KGMB KGVO KIRO KLZ KNX KOH KOIN KOY KSFO KSL KVI KVOR

ED-Midn't., E-11:00, C-10:00, M-9:00 CBC — Northern Messenger To Mideast and Western Networks

SATURDAY

ED-7:00 p.m., E-6:00, C-5:00, M-4:00 C — Saturday Night Swing Club Available to Columbia Network

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

C — Carborundum Band
KFAB KMBC KMOX WABC WBBM
WBT WCAO WCAU WCCO WEEI
WFBL WGAR WGR WHAS WJAS
WJR WKRC WPRO

B — Uncle Jim's Question Bee KDKA WBZ WBZA WGY WHK WJZ WMAQ

ED-8:00 p.m., E-7:00, C-6:00, M-5:00 R — "Belleve-It-or-not." Ripley KANS KDYL KFYR KGNC KOA KPRC KSD KSTP KYW WAPI WAVE WBAP WBEN WCAE WCSH WDAF WDAY WDEL WEAF WEBC WFBC WFBR WGY WHO WIBA WIRE WJAR WKY WLW WMAQ WMBG WNAC WMC WOAI WOOD WOW WPTF WRC WSB WSMB WSOC WSPD WTAG WTAM WTAR

WTIC WTMJ WWJ

ED-8:30 p.m., E-7:30, C-6:30, M-5:30
C — Johnny Presents Russ Morgan
KFAB KFH KMBC KMOX KRNT
WABC WADC WBBM WBIG WBNS
WBT WCAO WCAU WCCO WCOA
WDRC WEEI WFBL WFBM WGR
WGST WHAS WHEC WHIO WHK
WHP WISN WJAS WJR WJSV
WKRC WMBD WMBG WNBF WOC
WOKO WPRO WSBT WWVA

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

C — Prof. Quiz
KDB KERN KFAB KFBK KFPY
KFRC KGB KHJ KLRA KLZ KMBC
KMJ KMOX KOIN KOL KOMA
KRLD KRNT KSL KTRH KTSA
KVI KWG WABC WBBM WBNS
WBT WCAO WCAU WCCO WDAE
WDBO WDRC WEAN WFBL WFBM
WJAS WJR WJSV WKBW WKRC
WMBR WOKO WQAM WREC WSPD

B — National Barn Dance

KDKA KOIL KPRC KSO KTBS
KTHS KWK WABY WAPI WAVE
WBAL WBAP WBZ WBZA WFIL
WFLA WHK WHAM WIOD WIRE
WIS WJAX WJDX WJZ WKY WLS
WMAL WMC WMT WOAI WOOD
WPTF WREN WRVA WSB WSMB
WSOC WSUN WSYR WTAR WWNC

ED-9:30 p.m., E-8:30, C-7:30, M-6:30 C — Saturday Night Serenade

KFAB KFH KFPY KGKO KLRA KLZ KMBC KMOX KNOW KNX KOIN KOL KOMA KRLD KSFO KTRH KTSA KTUL KVI KWKH WALA WBBM WBIG WBNS WBRC WBT WCOA WDAE WDBO WDOD WEEI WFBL WFBM WGAR WGST WHAS WHEC WJAS WJR WJSV WKBW WLAC WMBD WMBR WMMN WNOX WOC WQAM WREC WRVA WSFA WTOC WWL

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

C — Your Hit Parade KERN KFAB KFBK KFH KFPY KFRC 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 WBRC WBT WCAO WCAU WCCO WCOA WDAE WDBJ WDBO WDNC WDOD WDRC WEAN WFBL WFBM WFEA WGST WHAS WHEC WHK WHP WIBW WIBX WICC WISN WJAS WJR WJSV WKBW WKRC WLAC WLBZ WMAS WMBD WMBG WMBR WNAC WNAX WNOX WOC WOKO WORC WPG WQAM WREC WSBT WSFA WSJS WSPD WTOC WWL WWVA

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

B — National Barn Dance
KDYL KFI KFSD KFYR KGHL
KGIR KGU KGW KHQ KOA KOMO
KPO KSTP KTAR WDAY WEBC
WIBA WLW WTMJ

ED-11:30 p.m., E-10:30, C-9:30, M-8:30 C — Johnny Presents Russ Morgan KFBB KFPY KGVO KIRO KLZ KNX KOIN KSFO KSL KVI KVOR

ED-Mldn't., E-11:00, C-10:00, M-9:00

C — Professor Quiz KFBB KFPY KIRO KNX KOH KOIN KOY KSFO KSL KVI

R — "Believe-It-Dr-Not" Ripley KERN KFBK KFI KGW KHQ KMJ KOMO KPO KWG

SUNDAY

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

C — Major Bowes' "Family"
CFRB KERN KFAB KFBH KFBK
KFH KFPY KFRC KGB KGVO
KMBC KOH KOL KRLD KSL KTRH
KTSA KVI KVOR KWG KWKH
WABC WACO WADC WALA WBNS
WBRC WCAO WCCO WDAE WDBJ
WDBO WDNC WESG WFBL WFEA
WHAS WHK WIBX WJAS WJR
WKRC WLBZ WMBD WMBR
WMMN WOC WOKO WORC WPG
WQAM WSBT WSJS WSPD WTOC

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

C — Sait Lake Tabernacle Choir CFRB KFAB KFBB KFBK KFH KFPY KFRC KGB KLZ KOH KOL KRLD KSL KTRH KTSA KVI KVOR KWG WABC WACO WADC WALA WBIG WBNS WBRC WCAO WCCO WDAE WDBJ WDBO WESG WFBL

WFEA WGR WHAS WICC WJAS WJR WKRC WLBC WMBR WMMN WOC WOKO WORC WQAM WSBT WSJS WSPD WTOC

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

C — Church of the Air
KFBK KFH KFPY KFRC KGB
KHJ KMOX KOH KOL KOMA KRLD
KRNT KSCJ KSL KTRH KTSA KVI
KVOR KWG WABC WALA WBNS
WBT WCAO WCCO WDAE WDBJ
WDBO WDRC WESG WFBL WFBM
WGR WHAS WHP WIBX WJAS
WJSV WKBN WKRC WLAC WLBZ
WMBR WNBF WOC WOKO WORC
WPG WQAM WREC WSBT WSJS
WSPD WTOC WWVA

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

B — Magic Key of RCA
CFCF CRCT KDKA KDYL KFI
KFYR KGU KGW KHQ KOA KOIL
KOMO KPO KPRC KSO KSTP KTBS
KTHS KVOO 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 WPTF
WREN WRVA WSB WSM WSMB
WSOC WSYR WTAR WTMJ WWNC

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

C — Jean Hershelt, "Dr. Christian."
CFRB KFAB KFH KMBC KMOX
KNOW KOMA KRLD KRNT KSCJ
KTRH KTSA KWKH WABC WADC
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WCHS WDAE WDBO
WDRC WEEI WFBI. WFBM WGAR
WGST WHAS WHEC WHIO WHP
WIBW WJAS WJR WJSV WKBW
WKRC WLAC WI.BZ WMAS WMBR
WOKO WORC WPRO WQAM WREC
WRVA WWL

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

C — N. Y. Philharmonic
CFRB CKAC KFAB KFBB KFH
KGKO KGVO KLRA KLZ KMBC
KMOX KNOW KOL KRLD KSCJ
KSL KTRH KTSA KWKH WABC
WADC WALA WBNS WBT WCAO
WCCO WCHS WDAE WDBJ WDBO
WDRC WEEI WESG WFBL WFBM
WHAS WHK WHP WIBW WIBY
WJAS WJR WJSY WKBB WKBN
WKBW WKRC WLAC WLBZ WMAS
WMBD WMBG WMBR WMMN
WNBF WOC WOKO WORC WPAR
WPRO WQAM WSBT WSJS WTAQ
WTOC WWL

Also on Canadian Network

R — The Radio News Reei
KSD KSTP KYW WBEN WCAE
WCSH WDAF WDEL WEAF WFBR
WGY WHO WIRE WJAR WMAQ
WNAC WOW WRC WSAI WTAG
WTAM WTIC WWJ

ED-4:30 p.m., E-3:30, C-2:30, M-1:30 R — The World Is Yours; Drama Available to Red Network

SUNDAY (Continued)

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

ED-5:00 p.m., E-4:00, C-3:00, M-2:00 C- Magazine of the Air CFRB CKAC KFAB KFPY KLZ KMBC KMOX KNOW KNX KOIN KOL KOMA KRLD KRNT KSFO KSL KTRH KTSA KTUL KVI WABC WADC WBBM WBNS WCAO WCAU WCCO WDAE WDRC WEEL WGAR WGR WGST WHAS WHEC WHIO WJAS WJR WJSV WKRC WMBR WOKO WPRO WQAM WWL

R — Marion Talley

KDYL KFI KGW KHQ KOA KOMO KPO KSTP KYW WBEN WCAE WCOL WCSH WDAF WDEL WEAF WEBC WFBR WGY WHO WIBA WIRE WJAR WMAQ WNAC WOOD WOW WRC WSAI WTAG WTAM WTIC WTMJ WWJ

ED-5:30 p.m., E-4:30, C-3:30, M-2:30 C — Guy Lombardo and Orchestra KFH KMBC KMOX KOMA KTUL WAAB WABC WBNS WCAO WCAU WDRC WEAN WFBL WFBM WGR WHAS WHEC WHK WIBX WICC WJR WJSV WMAS WOKO WORC WSPD WWVA

- Smiling Ed McConnell

KANS KOKA KECA KERN KEX KFBK KFSD KFYR KGA KGIR KGO KJR KLO KMJ KOIL KSO KTAR KWG KWK WAVE WBAL WBZ WBZA WCKY WCOL WDAY WDSU WEAN WEBC WEBR WENR WFIL WHAM WHK WICC WJZ WMAL WMT WREN WRTD WSM WSPD WSYR WTCN WXYZ

– Mickey Mouse Theater

KANS KDYL KFI KGNC KGW KHQ KOA KOMO KPO KPRC KSD KSTP KVOO KYW WAVE WBAP WBEN WBRC WCAE WCSH WDAF WDEL WEAF WFBC WFBR WFLA WGY WHO WIBA WIOD WIRE WIS WJAR WJAX WKY WLW WMAQ WMBG WMC WNAC WOAI WOOD WOW WPTF WRC WSB WSM WSMB WSUN WTAG WTAM WTAR WTIC WTMJ WWJ

ED-6:00 p.m., E-5:00, C-4:00, M-3:00 C — Joe Penner; Gene Austin

KFAB KFPY KGLO KLZ KMBC KMOX KNOW KNX KOIN KOL KOMA KRLD KRNT KSFO KSL KTRH KTSA KVI WABC WBBM WBNS WBRC WBT WCAO WCAU WCCO WDAE WDBO WDRC WEEI WFBL WFBM WGAR WGST WHAS WHEC WJAS WJR WJSV WKBW WKRC WOKO WORC WPRO WQAM WREC WRVA

M - George Jessel: Tommy Tucker To entire MBS and Michigan Networks

ED-6:30 p.m., E-5:30, C-4:30, M-3:30 R — A Tale of Today WBEN WEAF WGY WJAR WMAQ

WOW WRC WTAM

ED-7:00 p.m., E-6:00, C-5:00, M-4:00 R — Jack Benny; Mary Livingstone KSD KYA KYW WBEN WCAE WCSH WDAF WEAF WFBR WGY WHO WJAR WLW WMAQ WNAC WOW WRC WTAG WTAM WTIC

Also on Canadian Network

ED-7:30 p.m., E-6:30, C-5:30, M-4:30 C - Phil Baker; Oscar Bradley

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

- Ozzie Nelson; Harriet Hilliard

KARK KDKA KECA KFEL KEX KFSD KFYR KGA KGO KJR KLO KOIL KPRC KSO KSTP KTAR KTBS KTHS KVOO KWK WABY WAPI WAVE WBAL WBAP WBZ WBZA WCKY WCOL WDAY WEAN WEBC WEBR WFIL WFLA WHAM WHK WIBA WICC WIOD WIS
WJAX WJDX WJZ WKY WLEU
WLS WMAL WMC WMT WOAI
WPTF WREN WRTD WSB WSM WSMB WSOC WSUN WSYR WTAR WTMJ WWMC WXYZ

ED-8:00 p.m., E-7:00, C-6:00, M-5:00 R -- Don Ameche; Edgar Bergen

CFCF CRCT KDYL KFI KFYR KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTAR KTBS KVOO KYW WAVE WBEN WCAE WCSH WDAF WDAY WEAF WEBC WFAA WFBR WFLA WGY WHO WIBA WIOD WIRE WIS WJAR WJAX
WJDX WKY WLW WMAQ WMC
WNAC WOAI WOW WPTF WRC
WRVA WSB WSM WSMB WSOC WSUN WTAG WTAM WTAR WTIC WTMJ WWJ WWNC

Also on Canadian Network

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

To full network and CBC French

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

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

Tyrone Power; Drama

KDKA KECA KFSD KGA KGHL KGIR KGO KJR KLO KOIL KSO KTAR KWK WBAL WBZ WBZA WEBC WEBR WENR WFIL WGAR WHAM WICC WJZ WLW WMAL WMT WREN WSYR WXYZ

R - Manhattan Merry-Go-Round CFCF KDYL KFI KFYR KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTBS KTHS KYW WAVE WBEN WCAE WCKY WCSH WDAF WDAY WEAF WEBC WEEI WFAA WFBR 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

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

CFCF CRCT KDYL KFI KFYR KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTBS KYW WAPI WAVE WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFAA WFBR WFLA WGY WHO WIBA WISH WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WMAQ WMC WOAI WOW WPTF WRC WRVA WSAI WSB WSM WSMB WSOC WTAG WTAM WTAR WTMJ WWJ WWNC

Walter Winchell

KDKA KECA KEX KFSD KGA KGHL KGIR KGO KJR KLO KOIL KSO KTAR KWK WBAL WBZ WBZA WENR WFIL WGAR WHAM WRZ WJZ WLW WMAL WMT WREN WSYR WXYZ

ED-9:45 p.m., E-8:45, C-7:45, M-6:45 B — Irene Rich, Drama

KDKA KOIL KSO KWK WBAL WBZ WBZA WCKY WEAN WEBR WENR WFIL WHAM WHK WICC WJZ WMAL WMT WREN WSPD WSYR WTCN WXYZ

ED-10:00 p.m., E-9:00, C-8:00, M-7:00 R - Rising Musical Stars

KDYL KFI KGBX KGW KHQ KOA KPO KPRC KSD KSTP KTAR KTBS KTHS KYW WAVE WBAP WBEN WCAE WCSH WDAF WEAF WFBR
WFLA WGY WHO WIBA WIOD
WIRE WIS WJAR WJAX WJDX
WKY WMAQ WMC WNAC WOAI
WOOD 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 B — Tyrone Power; Drama

KARK KPRC KTBS WAPI WAVE WBAP WJDX WKY WMC WOAI WSB WSM WSMB

ED-11:00 p.m., E-10:00, C-9:00, M-8:00 B -- Irene Rich, Drama

KECA KERN KEX KFBK KFSD KGA KGO KJR KLO KMJ KVOD KWG WAPI WAVE WJDX WMC WSB WSM WSMB

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

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

ED-11:30 p.m., E-10:30, C-9:30, M-8:30 R - Jack Benny-Mary Livingstone KDYL KERN KFBK KFI KFSD KGHL KGIR KGU KGW KHQ KIDO KMJ KOA KOMO KPO KTAR KWG

CLASSIFIED INDEX TO CHAIN PROGRAMS

Time in Eastern Daylight

C-Columbia; R-National (Red); B-National (Blue); M-Mutual

COMEDY

Fred Ailen, 9:00 p.m. Wed., Red Phil Baker, 7:30 p.m. Sun., CBS
Jack Benny-Mary Livingstone, 7 and 11:30 p.m. Sun., Red
Edgar Bergen-Charlie McCarthy, 8 p.m. Sun., Red
Edgar Burbig, 7:45 p.m. Wed., Red
Burns Burbig, 7:45 p.m. Wed., Red
Bob Burns, 10:00 p.m. Thurs., Red
Burns and Ailen, 8 and 10:30 p.m., Mon., Red
Eddie Cantor, 7:30 and 10:30 p.m. Mon., CBS
Arlene Harris, 9 and 12 p.m. Tues., CBS
George Jessel, 6:00 p.m. Sun., MBS
Al Jolson, 8:30 and 11:30 p.m. Tues., CBS
Lew Lehr, 8:30 and 11:30 p.m. Wed., CBS
Parkyakarkus, 8:30 and 11:30 p.m. Tues., CBS
Al Pearce, 9 and 12 p.m. Tues., CBS
Joe Penner, 6:00 p.m. Sun, CBS
Joe Penner, 6:00 p.m. Sun, CBS

CONCERTS

Frank Black, 2:00 p.m. Sun., Blue Ford Sunday Evening Hour, 9:00 p.m. Sun., CBS Andre Kostelanetz, 9:00 p.m. Wed., CBS N. Y. Phiharmonic, 3:00 p.m. Sun., CBS Philadelphia Symphony, 9:00 p.m. Sun., Blue

DANCE BANDS

Robert Armbruster, 8:00 p.m. Sun., Red Ben Bernie, 8:30 and 11:30 p.m. Wed., CBS Oscar Bradley, 7:30 p.m. Sun., CBS
Don Donnie, 9 p.m. Sun., Red
Tommy Dorsey, 8:30 p.m. Wed., Red
Edgar Fairchild, 7:30 and 10:30 p.m. Mon., CBS Jan Garber, 8 and 10:30 p.m. Mon., Red Al Goodman, 10:00 p.m. Sat., CBS Benny Goodman, 9:30 p.m. Tues., CBS Gustav Haenschen, 9:30 p.m. Sun., Red; 10:00 p.m. Fri., CBS Phil Harris, 7 and 11:30 p.m. Sun., Red Horace Heidt, 9:00 p.m. Tues., Blue Richard Himber, 8 p.m. Mon., CBS Carl Hoff, 9 and 12 p.m. Tues., CBS Carl Hohengarten, 7 and 11 p.m. Mon. thru Fri.. CBS Hal Kemp, 10 p.m. Tues., CBS Wayne King, 8:30 p.m. Tues., Red; 10 p.m. Mon., CBS Benny Kreuger, 8:30 p.m. Mon., CBS Kay Kyser, 10 p.m. Wed., Red Guy Lombardo, 5:30 p.m. Sun., CBS Abe Lyman, 9:00 p.m. Fri., Red Frankie Masters, 10:30 p.m. Wed., CBS Jack Miller, 8 and 11:15 p.m. Thurs., CBS Billy Mills, 9:30 p.m. Tues., Red Russ Morgan, 8:30 and 11:30 p.m. Sat., CBS; 8:00 p.m. Tues., Red Ozzie Nelson, 7:30 p.m. Sun., Blue Raymond Paige, 9:00 p.m. Fri., CBS Ben Pollack, 6 and 11 p.m. Sun., CBS B. A. Rolfe, 8:00 and 12:00 p.m. Sat., Red Seymour Simons, 6:30 p.m. Sun., CBS Harry Sosnik, 9 and 10:30 p.m. Sun., Blue Phil Spitalny, 9 p.m. Mon., Red Johnny Trotter, 10:00 p.m. Thurs., Red Tommy Tucker, 6:00 p.m. Sun., MBS Rudy Vallee, 8:00 p.m. Thurs., Red Peter Van Steeden, 9:00 p.m. Mon., Red Don Voorhees, 8:00 p.m. Wed., CBS
Mark Warnow, 7:30 and 10:30 p.m. Thurs., CBS:
5 p.m. Sun., CBS

Paul Whiteman, 8:30 and 11:30 Fri., CBS

Meredith Willson, 9:00 p.m. Thurs., Red Victor Young, 8:30 and 11:30 p.m. Tues., CBS

DIALOG

١

Amos 'n' Andy, 7:00 and 11:00 p.m. Mon. through Fri., Red
Easy Aces, 7:00 p.m. Tues., Wed., Thurs., Blue Fibber McGee and Molly, 9:30 p.m. Tues., Red
Lum and Abner, 6:45 p.m. Mon., Wed., Fri., CBS
Pick and Pat, 8:30 and 11:30 p.m. Mon., CBS
Stroud Twins, 8:00 p.m. Sun., Red
Tim and Irene, 9 p.m. Fri., Blue

DRAMA

Don Ameche, 8 p.m. Sun., Red
Campana's First Nighter, 10:00 p.m. Frl., Red
Death Valley Days, 8:30 p.m. Frl., Blue
Gang Busters, 10:00 p.m. Wed., CBS
Eddie Guest, 10:30 p.m. Wed., CBS
Eddie Guest, 10:30 p.m. Sun., CBS
Hollywood Hotel, 9:00 p.m. Frl., CBS
Hollywood Playhouse, 9:00 and 11:30 p.m. Sun., Blue
Lone Ranger, 7:30 and 10:30 p.m. Mon., Wed., Frl.,
MBS
Lux Radio Theater, 9:00 p.m. Mon., CBS
Helen Menken, 7:30 p.m. Tues., CBS
One Man's Family, 8:00 p.m. Wed., Red
Tyrone Power, 9:00 and 10:00 p.m. Sun., Blue
Irene Rich, 9:45 and 11:00 p.m. Sun., Blue
Irene Rich, 9:45 and 10:00 p.m. Sun., Red
Those We Love, 8:30 p.m. Mon., Red
Those We Love, 8:30 p.m. Mon., Blue
Claire Trevor, 8:00 p.m. Tues., CBS
We, The People, 7:30 and 10:30 p.m. Thurs., CBS

POPULAR PROGRAMS American Album of Familiar Music, 9:30 p.m. Sun.,

Red Believe It Or Not, 8:00 and 12:00 p.m. Sat., Red Major Bowes' Family, 11:30 a.m. Sun., CBS
Carborundum Band, 7:30 p.m. Sat., CBS Cavalcade of America, 8:00 p.m. Wed., CBS Chase and Sanborn Hour, 8:00 p.m. Sun., Red Cheer Up, America, 7:45 p.m. Wed., Red Cities Service Concert, 8:00 p.m. Fri, Red Contented Program, 10:00 p.m. Mon., Red Death Valley Days, 8:30 p.m. Frl., Blue Gang Busters, 10:00 p.m. Wed., CBS Jack Haley's Variety Show, 8:30 p.m. Sat., Red Hawaii Calls, 8:30 p.m. Sun., MBS Hour of Charm, 9 p.m. Mon., Red How To Win Friends and Influence People, 10:45 p.m. Tues., Red It Can Be Done, 10:30 p.m. Wed., CBS Jello Program, 7:00 and 11:30 p.m. Sun., Red Johnny Presents—, 8:00 p.m. Tues., Red; 8:30 and 11:30 p.m. Sat., CBS Just Entertainment, 7 and 11 p.m. Mon. thru Fri., CBS Kraft Music Hall, 10:00 p.m. Thurs., Red Warden Lawes, 10:00 p.m. Mon., Blue Magazine of the Air, 5 p.m. Sun., CBS Magic Key of RCA, 2:00 p.m. Sun., Blue Manhattan Merry-Go-Round, 9:00 p.m., Sun., Red March of Time, 8:00 p.m. Thurs., Blue MGM Program, 9:00 p.m. Thurs., Red Mickey Mouse Theater, 5:30 p.m. Sun., Red Monday Night Show, 8 p.m. Mon., CBS National Barn Dance, 9:00 and 11:00 p.m. Sat., Blue Northern Messenger, 11:00 p.m. Sat., CBC Jack Oakie's College, 9:30 p.m. Tues., CBS

Professor Quiz, 9:00 and 12:00 p.m. Sat., CBS Radio News Reel, 3:00 p.m. Sun., Red Royal Crown Revue, 9 p.m. Fri., Blue Salt Lake City Tabernacle, 12:30 p.m. Sun., CBS Saturday Night Serenade, 9:30 p.m. Sat., CBS Saturday Night Swing Club, 7:00 p.m. Sat., CBS Kate Smith Hour, 8:00 and 11:15 p.m. Thurs., CBS Songshop, 10:00 p.m. Fri., CBS Station E-Z-R-A, 7:15 p.m. Mon., Wed., Fri., Red Swing School, 10:00 p.m. Tues., CBS Time To Shine, 10 p.m. Tues., CBS Town Hall Tonight, 9:00 p.m. Wed., Red True Story Court, 9:30 p.m. Fri., Red Uncle Jim's Question Bee, 7:30 p.m. Sat., Blue Vick's Open House, 7:00 p.m. Sun., CBS Voice of Firestone, 8:30 p.m. Mon., Red Vox Pop, 9:00 p.m. Tues., Red Waltz Time, 9:00 p.m. Fri., Red Watch the Fun go By, 9:00 and 12:00 p.m. Tues., CBS We, The People, 7:30 p.m. Thurs., CBS Your Hit Parade, 10:00 p.m. Sat., CBS

SINGERS

Stuart Allen, 10:00 p.m. Sat., CBS Gene Austin, 6:00 p.m. Sun., CBS Kenny Baker, 7:00 and 11:30 p.m. Sun., Red Henry Burr, 9:00 and 11:00 p.m. Sat., Blue Rachel Carlay, 9:00 p.m. Sun., Red John Carter, 8 p.m. Sun., Red Buddy Clark, 8:30 and 11:30 p.m. Wed., CBS Alice Cornett, 10:00 p.m. Fri., CBS Richard Crooks, 8:30 p.m. Mon., Red Bing Crosby, 10:00 p.m. Thurs., Red Jean Dickenson, 9:30 p.m. Sun., Red Deanna Durbin, 7:30 and 10:30 p.m. Mon., CBS Mary Eastman, 9:30 p.m. Sat., CBS Jack Fulton, 7:00 and 11:00 p.m. Mon. through Fri., Paula Gayle, 6 and 11 p.m. Sun., CBS Fredda Gibson, 10:00 p.m. Sat., CBS: 9 p.m. Fri., Blue Harriet Hilliard, 7:30 p.m. Sun., Blue Al Jolson, 8:30 and 11:30 p.m. Tues., CBS Alan Jones, 9 p.m. Thurs., Red Reed Kennedy, 10:00 p.m. Fri., CBS Dorothy Lamour, 8:00 p.m. Sun., Red Frances Langford, 9:00 p.m. Sun., Red Frances Langford, 9:00 p.m. Fri., CBS Pierre Le Kreeun, 9:00 p.m. Sun., Red Luliaby Lady, 10:00 p.m. Mon.; Red Lulu Belle, 9:00 and 11:00 p.m. Sat., Blue Smiling Ed McConnell, 5:30 p.m. Sun., Blue Lucille Manners, 8:00 p.m. Fri., Red Tony Martin, 8:00 and 10:30 p.m. Mon., Red Frank Munn, 9:30 p.m. Sun., Red: 9:00 p.m. Fri., Red Frank Parker, 9 p.m. Fri., CBS Jane Pickens, 8:30 and 11:30 p.m. Wed., CBS Martha Raye, 8:30 and 11:30 p.m. Tues., CBS Kate Smith, 8:00 and 11:15 p.m. Thurs., CBS Margaret Speaks, 8:30 p.m. Mon., Red Marion Talley, 5:00 p.m. Sun., Red Kay Thompson, 8 p.m. Mon., CBS

TALKS

Dale Carnegle, 10:45 p.m. Tues., Red
Boake Carter, 6:30 and 8:45 p.m. daily, CBS
Jimmy Fidler, 10:30 p.m. Tues., Fri., Red
Gabriel Heatter, 7:30 and 10:30 p.m. Thurs., CBS
John B. Kennedy, 8:00 p.m. Sun., Blue
Geo. McCall, 7:15 and 11:15 p.m. Tues., Thurs., CBS
Harriet Parsons, 8:30 p.m. Wed., Blue
Robert L. Ripley, 8:00 and 12:00 p.m. Sat., Red
Deems Taylor, 9:00 p.m. Wed., CBS; 8:30 and 11:30
p.m. Fri., CBS
Lowell Thomas, 6:45 p.m. Mon. through Fri., Blue
Dorothy Thompson, 10:45 p.m. Fri., Red; 7:30 p.m.
Tues., Blue
Walter Winchell, 9:30 and 11:15 p.m. Sun., Blue

KYW's New Home

gd

Official opening of KYW's new

ultra-modern home at 1619 Walnut Street, to be known as Philadelphia's Radio Center, will be held the week of May 16.

Previously scheduled for last November, the opening has been postponed because of the contractor's inability to receive essential construction materials, but at the present rate applying the finishing touches, and barring unforeseen delays, the \$600,000 air-conditioned structure will be dedicated opened for public inspection, with appropriate ceremony by the middle of May.

Save for the ground floor store area, the entire structure will be devoted to the broadcasting activities of KYW, which has rapidly outgrown the present cramped quarters on Chestnut Street. The new Radio Center will not only permit greater efficiency in daily operations; it also provides room for future expansion.

Two full floors, the fifth and sixth, have been reserved for television. According to Mr. Joy, no television equipment has been ordered, but present plans call for its installation no sooner than RCA and NBC have perfected their experimental equipment and received licenses and allocations from the Government.

"As regards television," said Mr. Joy, "KYW is fortunately situated. We happen to be at the terminus of the coaxial cable line which goes to New York, where the National Broadcasting Company has its television studios."

All the room units designed for broadcasting purposes are patterned after the system of studio suspension used so successfully by NBC in its Radio City headquarters. The studios are completely-isolated shells protected against shocks and vibrations by an elaborate system of springs.

KEY TO SYMBOLS

Second Column Symbols

100

500

1000

N

ak

ak

ak

CKCL

CKUA

KMJ

postage.

Verifies reception for return

As shown in the Index by Frequencies and Dial Numbers

National "Red" network.

to increase

Sunday only. Synchronized.

permit

Frequency is given in kilocycles; wave lengths in meters. Night power is shown in watts in third column. Daytime power is shown in parentheses 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.

Weather or time only.

n

```
No information available.
Fourth Column Symbols
National "Blue" network
b
     Verifies only occasionally
                                                                    network.
                                                                                       Has
     Does not verify.
                                              Columbia network.
                                                                                         power.
                                              Day time only.
Day time with occasional
      Verification 10c; letter 25c.
                                         D
                                                                                       Has permit to change lo-
     Sends own station stamp
                                         Dn
                                                                                         cation.
                                              evening hours.
Canadian Brdcstg. Corp.
        for 10c.
                                                                                       Has permit to change fre-
     Sends own station stamp
                                                                                         quency.
                                             Mutual Brdestg. Sys.
National "Red" and
"Blue" networks.
        for 5c.
                                         M
                                                                                 a-b-c. Small letters show stations
     Sends own station
                                         N
                              stamp
                                                                                         using same transmitter.
        for postage.
                                                                                 1-2-3. Figures denote stations
     Has no stamps.
                                              Has
                                                    construction
                                                                                         sharing time.
                                                                      permit
                                                only.
                                                                                  .... No information.
     Verifies for 5c.
  The sign-on and sign-off time of stations is shown in Eastern Standard Time. "ss" means "sunset."
540 keys. (555.2)
                                Regina, Sask.
Nassau, Bahamas
                                                            -9:30 am-1:30 am
-1:30 pm-9:30 pm
550 keys. (545.1)
                                                              -7:00 am—11:00 pm
-8:00 am—Midnight
-8:00 am—1:00 am
CFNB
                 500
                       \mathbf{F}(1)
                                Fredericton, N. B.
                                St. Louis, Mo.
Bismarck, N. Dak.
Corvallis, Ore.
St. Louis, Mo.
KFUO
                 500
                        2 (1)
          ak
KFYŘ
                       N (5)
                1000
          ak
                                                              Noon—Midnight
                1000
KOAC
          ak
                       2R (5)
KSD
          ak
                1000
                                San Antonio, Tex.
Waterbury, Vt.
Buffalo, N. Y.
Cincinnati, Ohio
                       C (5)
KTSA
          ak
                1000
WDEV
          ak
                 500
                       C (5)
C (5)
WGR
                1000
                                                              -7:00 am—midnight
          ak
WKRC
          ak
                1000
                                                             -6:30 am−...
WSVA
XEFC
          ak
                 500
                       Ď
                                Harrisonburg, Va.
                 100
                                 Merida, Yuc.
560 kcys. (535.4)
                       (1) N
C (5)
C (5)
KFDM
                 500
          ak
                                 Beaumont, Texas
                1000
                                                              -8:30 am—2:00 am
KLZ
          ak
                                 Denver, Colo.
KSFO
                                                              -10:00 am—4:00 am
          ak
                1000
                                San Francisco, Cal.
KWTO
                                 Springfield, Mo.
Philadelphia, Pa.
          ak
                5000
                       D
                                                              -6:00 am-
WFIL
          ak
                1000
                       BM
                                                              -7:00 am—midnight
WIND
          ak
                1000
                        (5)
                                 Gary, Ind.
                                                               6:00 am—4:00 am
                       Ñ (5)
WIS
                1000
                                 Columbia, S. C.
                                                              -7:00 am—midnight
-6:00 am—midnight
           ak
WOAM ak
                1000
                                 Miami, Fla.
570 kcys. (526.0)
CMCY
KGKO
KMTR
           ak
                5000
                                Havana, Cuba
                       CXY(1) Wichita Falls, Tex.

Los Angeles, Calif.
C (5) Tacoma, Wash.
                 250
          ak
                1000
           ak
                                                            -9:00 am-3:00 am
KVI
           ak
                1000
                                 Youngstown, Ohio
New York, N. Y.
Yankton, S. Dak.
WKBN
                 500
                        CI
           ak
WMCA
           ak
                1000
                        \ddot{\mathbf{C}} (5)
WNAX
WOSU
           ak
                1000
                                                              -6:45 am—
                       B (WSYU) Syracuse, N. Y.
N. Asheville, N. C.
                 750
                                                              -9:00 am—11:00 pm
-7:00 am—1:00 am
           ak
          ak
                1000
WSYR
                                                              -7:30 am—1:00 am
                1000
          ak
580 kcys. (516.9)
                                 Prince Rupert, B. C.
Quebec, P. Q.
                                                              -8:00 am—midnight
-8:00 am—midnight
-8:00 am—midnight
                   50
CFPR
           ak
CHRC
                  100
           ak
                                 Toronto, Ont.
```

--10:00 am-3:00 am

Edmonton, Alta.

Fresno, Calif.

```
Manhattan, Kans.
Charleston, W. Va.
                                                       -10:30 am-6:30 pm
KSAC
WCHS
                500
                     2(1)
               500
                     C (1)
C(5)
         ak
                              Orlando, Fla.
Topeka, Kans.
Urbana, Ill.
                                                       —7:00 am—midnight
WDBO
         ak
              1000
                                                       —5:00 am— . . . .
—9:00 am—ss
              1000
                     2Č (5)
WIBW
         ak
              1000
                     D
WILL
         ak
                              Worcester, Mass.
Tijuana, B. Cfa.
Piedras Negras, Coah.
                                                         -7:30 am-1:00 am
              1000
WTAG
         ak
                     R
         ak 10000
XELO
                      . . . .
XEMU
               250
590 kcys. (508.2)
                              Spokane, Wash.
Boston, Mass.
KHO
WEEI
          ak
              1000
                     R (5)
C (5)
                                                      -6:45 am--...
          ak
              1000
                              Kalamazoo, Mich.
WKZO
          ak
              1000
                      BDX
                                                       -7:00 am-3:30 am
wow
          ak
              1000
                     R (5)
                              Omaha, Nebr.
600 kcys. (499.7)
                500
                      BF
                              Montreal, P. Q.
CFCF
          ak
                              Vancouver, B. C.
                                                       -7:45 am-1:00 am
CJOR
                500
          ak
CMQ
          ak 25000
                              Havana, Cuba
                              St. Pierre, Miquelon —.....
San Diego, Calif.
Baltimore, Md.
FON
          ad
                250
                      609
               1000
KFSD
                      B
          ak
                      \tilde{\mathbf{C}} (1)
WCAO
          ak
                500
500
                                                       --6:00 am--1:00 am
                      BM (1) Bridgeport, Conn.
BM (5) Cedar Rapids, Iowa
WICC
          ak
                                                       -6:30 am-1:00 am
WMT
          ak
               1000
                                                         -7:30 am-1:00 am
                      C(5)
WREC
          ak
               1000
                              Memphis, Tenn.
XEOJ
XET
          ak
              5000
                              Monterrey, N. L.
610 kcys. (491.5)
                              San Francisco, Cal.
               1000
                      M (5)
KFRC
                              Cleveland, Ohio.
                                                       -6:45 am-ss
-7:30 am-1:00 am
                500
                      DM
 WCLE
          ak
                      R (5) Kansas City, Mo. N(WMBF) Miami, Fla.
 WDAF
          яk
               1000
               1000
 WIOD
          ak
                              Philadelphia, Pa
Mexico City, D. F.
Mexico City, D. F.
                                                        -7:00 am-1:00 am
 WIP
               1000
          ak
XÊXM
                500
                                                          - . . . . . .
XEYO
                500
620 kcys. (483.6)
                                                        _9:00 am—2:00 am
          ak
               1000
                      R (5)
                               Portland, Ore.
 KGW
                                                        —9:00 am—1:15 am
               1600
                              Phoenix, Ariz.
San Jose, Costa Rica
 KTAR
           ak
                      625 San Jose, Conn.
Na (5) Tampa, Fla.
Greensburg, Pa.
 TIPG
               2000
           Z.
                                                          -7:00 am—1:00 am
 WFLA
           ak
               1000
                                                        -8:00 am-5:00 pm
 WHJB
           ak
                250
                      CM (1) Bangor, Maine
                500
 WLBZ
           ak
                      Na (5) St. Petersburg, Fla.
N (5) Milwaukee, Wis.
                                                        -7:00 am-1:00 am
-7:15 am-1:30 am
 WSUN
               1000
           ak
               1000
 WTMJ
           ak
 630 kcys. (475.9)
                               Chatham, Ont. —8:00 am—10:30 pm
Charlottetown, P.E.I.—9:00 am—11:00 pm
 CFCO
           ak
                100
 CFCY
CJRC
           ak
                1000
                                                         -8:30 am-2:00 am
                               Winnipeg, Man.
Kelowna, B. C.
Havana, Cuba
                      F (1)
                 500
           ak
                                                        -11:00 am-1:30 am
                 100
 CKOV
           ak
                                                        —10:00 am—11:30 pm
                 250
 CMCD
           ak
                               Columbia, Mo.
Pierre, S. Dak.
Evansville, Ind.
                                                          -7:00 am-9:30 pm
                       1(1)
 KFRU
           ak
                 500
 KGFX
                 200
                       D
           ak
                      N1 (1)
B (.5)
C (1)
 WGBF
                 500
           ak
                               Washington, D. C.
                                                         -6:30 am-2:00 am
 WMAL
           ak
                 250
                               Providence, R. I.
Merida, Yuc.
Havana, Cuba
                                                          7:00 am-1:00 am
                 500
 WPRO
           ak
 XEZ
           z
                 500
              10000
           7.
 640 kcys. (468.5)
                                                        -9:45 am-3:00 am
                               Los Angeles, Calif.
 KFI
           ak 50000
  WGAN
                 500
                       ĎΡ
                               Portland, Maine
                                                        -6:30 am-8:15 pm
                               Columbus, Ohio
 WHKC
WOI
           ak
                 500
                       D...
                5000
                                Ames, Iowa
           ak
                 250
                               Sabinas, Coah.
 XEBX
           z
                               San Salvador, E. S.
                 500
  YSS
           ak
                     (461.3)
 650
         kcys.
                                San Jose, C. R.
                1000
                                                         -7:30 am-1:00 am
                       MN
           ak 50000
                                Nashville, Tenn.
```

	STATIONS BY FR
660 kcys. (454.3)	
WAAW ak 500 D Omaha, Nebr. WEAF ak 50000 R New York, N. Y. XEAL z 1000 Mexico City, D. 1 XEAO ak 250 Mexicali, B. Cfa.	F
670 kcys. (447.5)	7.00 am 1.00
	—7:00 am—1:00 am
680 kcys. (440.9)	
CMBQ z 5000 P Havana, Cuba CMCG ak 1000 Havana, Cuba KFEQ ak 2500 D St. Joseph, Mo. KPO ak 50000 R San Francisco, C VAS akn 2000 685 Glace Bay, N. S. VOWR ck 500 681 St. John's, Nfld. WLAW z 1000 D Lawrence, Mass.	—7:00 am—midnight —7:00 am—s ₈ cal. —11:00 am—3:00 am
WPTF ak 1000 N (5) Raleigh, N. C.	—6:30 am—11:00 рm
690 kcys. (434.5)	
CFRB ak 10000 C Toronto, Ont. CJCJ ak 100 F Calgary, Alta.	—8:00 am—midnight —9:30 am—1:00 am
700 kcys. (428.3)	
WLW ak 500000 MN (W8XO) Cincinnati,	O5:45 am-1:30 am
710 kcys. (422.3)	
KIRO ak 1000 C Seattle, Wash. KMPC ak 500 Beverly Hills, Cal WOR ak 50000 M Newark, N. J.	—9:00 am—5:00 am if. —9:00 am—4:00 am ——2:00 am
720 kcys. (416.4)	7
CMK ak 3000 Havana, Cuba WGN ak 50000 M Chicago, Ill.	
XEH ak 250 Monterrey, N. L.	—10:00 am—9:00 pm
730 kcys. (410.7) CFPL ak 100 F London, Ont.	0.00 - 2.00
CJCA ak 1000 F Edmonton, Alta. CKAC ak 5000 C Montreal, P. Q. CKPR ak 100 F Fort William, On	—9:00 am—3:00 am —9:00 am—2:00 am —7:30 am—1:00 am t. —9:00 am—11:00 pm
CMCL z 10000 P XEPN ak 100000 Piedras Negras, Co XERB z 100000 Rosarito Bch., B. 0	oah.—5:45 am—
740 kcys. (405.2)	٦
KMMJ ak 1000 D Clay Center, Nebr	
KTRB ak 250 D Modesto, Calif. WHEB ak 250 D Portsmouth, N. H WSB ak 50000 R Atlanta, Ga.	—9:00 am—8:30 pm i. —6:55 am—1:00 am
750 kcys. (399.8)	7
CMBL z 2500 Havana, Cuba KGU aj 2500 N Honolulu, Hawaii WJR ak 50000 C Detroit, Mick.	—8:00 am—12:15 am —11:30 am—4:30 am —5:45 am—2:00 am
XEAA ak 200 Mexicali, B. Cfa. XEAM z 25 Matamoros, Tams	
760 kcys. (394.5)	7
CMHX ak 200 Cienfuegos, Cuba	- .

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

		MERCIONIA B. C.	STATIONS DI TRI
KXA ak WBAL ak WEW ak WJZ ak XEOK ak	2500 BMS 1000 D 50000 BSy		6:00 pm 9:00 pm1:00 am 8:00 amss 7:30 am1:00 am All night station
CMBF z KFAB ak	ys. (389 10000 CSy 50000 CSy	Havana, Cuba Lincoln, Nebr. Chicago, Ill.	7:00 am1:00 am
780 kc	ys. (384	.4)	
CHWK dk CKSO ak CMJK ak KEHE ak KFDY ak KFQD ck KGHL ak KWLK z WEAN ak	100 F 1000 F 250 1000 (5) 1000 D 250 1000 N (5) 250 DP	Chilliwack, B. C. Sudbury, Ont. Camaguey, Cuba Los Angeles, Calif. Brookings, S. Dak. Anchorage, Alaska Billings, Mont. Longview, Wash.	-11:00 am-1:15 am -9:00 am-midnight -11:00 am-10:00 pm -1:30 pm-3 pm -11:00 pm-5:00 am -10:00 am-1:00 am
WMC ak WTAR ak	1000 N	(5) Providence, R. I. Memphis, Tenn. Norfolk, Va.	—6:00 am— —7:45 am—1:00 am
CMGH ak KGO ak KOAM z	ys. (379	Mexico City, D. F. 5) Matanzas, Cuba San Francisco, Cal. Pittsburg, Kans.	
	50000 R	Schenectady, N. Y.	—7:00 am—1:00 am
	ys. (374	,	
	50000 Na 50000 Na	Trujillo, D. R. Fort Worth, Texas Dallas, Texas Cumberland, Md.	—6:45 am—midnight —9:00 am—12:30 am —8:30 am—ss
810 kc	ys. (370	.2)	
CMCF ak WCCO ak WNYC ak XEBZ ad XEDF z	50000 C 1000 D	Havana, Cuba Minneapolis, Minn. New York, N. Y. Mexico City, D. F. Nuevo Laredo, Tam	. —7:30 am—1:00 am —7:00 am—7:00 pm — s. —11:00 am—8:15 pm
820 kc	ys. (365	.6)	
CMHW ak WHAS ak XEBG z	100 50000 C 1000	Santa Clara, Cuba Louisville, Ky, Tijuana, B. Cfa.	—6:45 ат—
830 kc	ys. (361	.2)	
CMJX ak KOA ak WEEU ak WHDH ak WRUF ak	50000 R 1000 D 1000 Dn	Camaguey, Cuba Denver, Colo. Reading, Pa. Boston, Mass. Gainsville, Fla.	—9:00 am—11:30 pm —9:00 am—2:00 am —8:00 am—5:00 pm —7:00 am—6:30 pm
840 kc	ys. (356	.9)	
CFQC ak VOGY ak		Toronto, Ont. Saskatoon, Sask. St. John's, Nfld. Villa Acuna, Coah.	—All night station
850 kc	ys. (352	.7)	
CMCM ak KIEV ak WESG ak	250 D	Havana, Cuba Glendale, Calif. Elmira, N. Y.	—8:00 am—midnight —7:30 am—6:00 pm

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

NORTH AMERICAL	V D. C. STATIONS DI FRE
WKAR ak 1000 D E. Lansin WWL ak 10000 CX New Orle	ng, Mich. —7:00 am—5:00 pm ans, La. —6:30 am—1:00 am
860 kcys. (348.6)	
WABC ak 50000 C (WBOQ) New Years WHB ak 1000 DM Kansas C XEMO ak 5000 Tijuana, XENC z 50 Mexico C	ity, Mo. B. Cfa. —9:45 am—3:00 am
870 kcys. (344.6)	
WENR ak 50000 Ba Chicago, Chicago, Chicago, Chicago, Monterre XEJW XEFB ak 200 Monterre Mexico Company	III. —6:30 am—3:00 pm
880 kcys. (340.7)	
CBO ak 1000 F Ottawa, CFJC ak 1000 F Kamloop CMW ak 1400 X Havana, KFKA ak 500 2M (1) Greeley, KLX ak 1000 Oakland, KPOF ak 1000 2 Denver, CTIEP ak 1000 San Jose, WCOC ak 500 CX (1) Meridian WGBI ak 500 CI (1) Scranton WQAN ak 500 D Richmon WRNL ak 500 D Richmon	s, B. C. —12:30 pm—1:15 am Cuba —7:00 am—midnight Colo. —7:30 am—1:00 am Calif. —10:30 am—2:30 am Colo. , Costa Rica , Miss. , Pa. —12:30 pm—10:30 pm , Pa. —12:30 pm—10:00 pm dd, Va. —6:30 am—ss
WSUI ak 500 (1) Iowa Cit;	y, Iowa —10:00 am—11:00 pm
WBAA ak 500 (1) W. Lafay WGST ak 1000 C (5) Atlanta, WJAR ak 1000 R (5) Providenc WMMN ak 500 C (1)X Fairmon	oah, Iowa —6:30 am—1:00 am , Wash. —9:50 am—3:00 am on, S. Dak. yette, Ind. —Noon—6:00 pm Ga.
900 kcys. (333.1)	
KHJ ak 1000 M (5) Los Ange KSEI ak 250 (1)N Pocatello WBEN ak 1000 R (5) Buffalo, I WELI ak 500 D New Hav WFMD ak 500 D Frederick WJAX ak 1000 N (5) Jacksony	N. Y. —7:00 am—1:00 am en, Conn. —6:00 am—ss c, Md. —6:30 am—ss rille, Fla. —6:45 am—1:00 am a City, Ok. —7:45 am—1:00 am -9:00 am—5:00 pm
910 kcys. (329.6)	
CBF ak 50000 FN Montrea CKY ak 15000 F Winnipe CJAT ak 1000 F Trail, B. XENT ak 150000 Nuevo La	g, Man. —8:30 am—1:00 am
920 kcys. (325.9)	
CMX ak 1000 X Havana, KFEL ak 500 Ma Denver, KOMO ak 1000 R (5) Seattle, KPRC ak 1000 R (5) Houston KVOD ak 500 Ba Denver, WAAF ak 1000 D Chicago, WORL ak 500 D Boston,	Colo. —8:00 am—2:30 am Wash. , Texas Colo. III. —6:00 am—ss Mass.
WPEN ak 1000 2 Philadel	phia, Pa.

```
WRAX ak 1000
                               Philadelphia, Pa.
          ak 1000
                      Ď
                               Spartanburg, S. C.
WSPA
                      \bar{\mathbf{R}}
                                                        —6:00 am—....
WWJ
          ak 5000
                               Detroit, Mich.
930 keys. (322.4)
               1000
                              Calgary, Alta.
North Bay, Ont.
                                                        -9:00 am-2:00 am
CFAC
CFCH
          ak
                      F
          ak
                100
                                                        -7:00 am-10:00 pm
-7:30 am-11:00 pm
                      ŗ.
                               Prescott, Ont.
Halifax, N. S.
CFLC
          ak
                100
CHNS
               1000
          ak
                      Ē
                               Brantford, Ont.
CKPC
          ak
                100
               1000
                      (5)
                               Shenandoah, Iowa
                                                          -6:00 am-
KMA
          ak
KROW
               1000
                               Oakland, Calif.
                                                         -9:00 am-5:00 am
          ak
                                                         -8:00 am-12:30 am
-7:00 am-midnight
                      R(5)
                               Birmingham, Ala.
WBRC
               1000
          ak
                               Roanoke, Va
WDBJ
          ak
               1000
                      C(5)
                               Hermosillo, Son.
                                                          -1:00 pm—midnight
XEBH
          ak
                500
940 kcys. (319.0)
                      C (5) Portland, Ore.
St. John's, Nfld.
D Jersey City, N. J.
N Louisville, Ky.
R (2.5) Portland, Maine
N (5) Madison, Wis.
D Madison, Wis.
               1000
KOIN
          ak
VOAS
          ak
                100
WAAT
WAVE
WCSH
                500
                                                         -6:30 am-6:00 pm
          ak
                                                         -8:00-1:00 am
               1000
          ak
                                                         -8:00 am-midnight
-6:00 am-1:00 am
-9:00 am-5:30 pm
               1000
          ak
               1000
WDAY
          ak
               5000
WHA
          ak
                              Ashtabula, Ohio
Mexico City, D. F.
                      D
WICA
          ak
                250
          ak
              5000
950 keys. (315.6)
                                                         -9:00 am-1:00 am
-6:55 am-midnight
                               Lethbridge, Alta.
                      F
CJOC
           ak
                 100
                               Havana, Cuba
Quebec, P. Q.
Hollywood, Calif.
                      <u>.</u>...
              10000
CMBC
          Z
CRCK
           ak
               1000
                       \overline{(5)}
                                                         -9:30 am-4:00 am
KFWB
          ak
               1000
                                                         -6:55 am-1:00 am
               1000
                       \tilde{\mathbf{C}} (5)
                               Kansas City, Mo.
KMBC
          ak
                 500
                      ĎP
                               Saginaw, Mich.
 WHAL
          z
                       RX (1) Washington, D. C.
           ak
                 500
                                                         -6:00 am-...
WRC
960 kcys. (312.3)
                                                         -9:30 am-2:00 am
-7:30 am-11:00 pm
CFRN
CHNC
                 100
                               Edmonton, Alta.
           ak
                               New Carlisle, P. Q.
Guantanamo, Cuba
                      F
           ak 1000
CMKS
           \mathbf{z}
                      Ė
                               Toronto, Ont.
Reynosa, Tams.
                 100
 CRCY
           ck
          c 100000
                                                         -5:45 am-...
XEAW
970 keys. (309.1)
                               Havana, Cuba
Seattle, Wash.
                                                          -8:55 am-11:00 pm
CMBY
                 150
               5000
                       B
KJR
WCFL
           ak
                               Chicago, Ill.
                       N
D
           ak
                5000
                 100
                               Glenside, Pa.
980 kcys. (306.0)
                               Pittsburgh, Pa.
Tijuana, B. Cfa.
           bk 50000
                       В
 KDKA
           ak 1000
                               Nuevo Laredo, Tams.
                 250
990 kcys. (302.8)
                                                         -6:00 am-1:00 am
-6:00 am-1:00 am
                       BSy
           ak 50000
                                Boston, Mass.
 WBZ
                       ВSу
                               Springfield, Mass.
           ak 1000
 WBZA
XEAF
XES
                               Nogales, Son.
           ak
                 750
                       . . . .
                 250
                               Tampico, Tams.
 1000 kcys.
                       (299.8)
                                                         —7:45 am—midnight
—9:00 am—8:15 pm
                 500
                       (1) X
                               Havana, Cuba
 CMBZ
           ak
                               Los Angeles, Calif.
St. John's, Nfld.
 KFVD
           ak
                1000
                       Dn
 VOCM
                 200
                       1006
```

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

				TATIONS BT PREQUENCIES
WHO XEBI	ak 50000 ak 25	R 	Des Moines, Iowa Aguascalientes, Ags,	-8:00 am-2:00 am
1010	kcys.	(296	5.9)	
CHML CKCD CKCK CKCO CKIC CKWX CMJA KGGF KOW WHN WNAD	ak 100 ak 1000 ak 1000 ak 500 ak 1000 ak 300 ak 1000 ak 1000 ak 1000	F 1 F F 1 2M M (5) 2	Hamilton, Ont. Vancouver, B. C. Regina, Sask. Ottawa, Ont. Wolfville, N. S. Vancouver, B. C. Camaguey, Cuba Coffeyville, Kans. San Jose, Calif, New York, N. Y. Norman, Okla.	-8:00 am-midnight -9:30 am-2:00 am -Noon-11:30 pm -Noon-4:00 am -9:30 am-3:00 am -7:00 am-1:00 am -3:00 pm-10:15 pm
WNOX XEFQ XEU	ak 1000 ak 50 ak 250	C (5)	Knoxville, Tenn. Cananea, Son. Veracruz, Ver.	-6:30 am-2:00 am -8:00 am-1:00 am
1020	kcys.	(293	3.9)	
K YW WDZ XEJ	ak 10000 ak 250 ak 1000	R D 	Philadelphia, Pa. Tuscola, III. Juarez, Chih.	—7:05 am—10:00 pm —7:00 am—6:00 pm
1030	kcys.	(291	.1)	
CFCN CJBR CKLW CMCK XEB	ak 10000 z 1000 ak 5000 z ak 10000	F F M	Calgary, Alta. Rimouski, P. Q. Windsor, Ont. Havana, Cuba Mexico City, D. F.	—9:00 am—1:30 am -6:00 am—4:00 am —10:00 am—12:15 am
1040	kcys.	(288	5.3)	
KRLD KWJJ KYOS WTIC	ak 10000 ak 500 bk 250 ah 50000	C D R	Dallas, Texas Portland, Ore. Merced, Calif. Hartford, Conn.	—7:00 am—1:00 am —All night station —6:00 am—
1050	kcys.	(285	5.5)	
CBM CMKD HIT KFBI KNX WEAU WGVA	ak 5000 ak 250 z 50 ak 5000 ak 50000 z 1000 z 1000	F Dn C D DD	Montreal, P. Q. Santiago, Cuba Trujillo, D. R. Abilene, Kans. Los Angeles, Calif. Eau Claire, Wis. Indianapolis, Ind.	-7:00 am-7:45 pm -9:30 am-3:15 am
1060	kcys.	(282	8)	
KTHS VOAC WBAL WJAG W3XJ	ak 10000 z 40 ak 10000 ak 1000 z 100	N 1065 BM D P	Hot Springs, Ark. St. John's, Nfld. Baltimore, Md. Norfolk, Nebr. College Park, Md.	—9:00 am—ss —6:00 am—9:00 pm —7:30 am—ss —Midnight to 6:00 am
1070	kcys.	(280	0.2)	·
CMBX CMHA KJBS WCAZ WTAM	ak 500 z 50 ak 500 ak 100 ak 50000	 D R	Havana, Cuba Sagua la Grande, Cul San Francisco, Calif Carthage, III. Cleveland, Ohio	ba . —All night station —6:00 am—midnight
1080	kcys.	(277	7.6)	
CMJQ WBT WCBD WMBI XEBA XEBK XEDP	z 200 ak 50000 ak 50000 ak 50000 z 20 ak 100 ak 5000	C Dnl Dnl	Camaguey, Cuba Charlotte, N. C. Chicago, III. Chicago, III. Guzman, Jal. Nuevo Laredo, Tams Mexico City, D. F.	—6:30 am—midnight

	HOR	. II AIV	IERICAN D. C. S	TATIONS DI TRE
1090	kcys.	(275	.1)	
KMOX	ak 50000	C	St. Louis. Mo.	-6:30 am-1:00 am
1100	kcys.	(272	.6)	
CBR KGDM KWKH WBIL WPG XEL	ak 5000 ak 1000 ak 10000 ak 5000 ak 5000 z 250	F DM C 1 C1	Vancouver, B. C. Stockton, Calif. Shreveport, La. New York, N. Y. Atlantic City, N. J. Mexico City, D. F.	- 9:00 am- ss 7:30 am-1:00 am
1110	kcys.	(270	.1)	
CMCJ KSOO WRVA	ak 500 ak 2500 ak 5000	X DnNX CM	Havana, Cuba Sioux Falls, S. Dak. Richmond, Va.	7:00 am6:45 pm 7:00 ammidnight
1120	kcys.	(267	.7)	
CHLP CHSJ CKOC CKX	ak 100 ak 500 ak 500 ak 1000	F F (1) F (1)	Montreal, P. Q. St. John, N. B. Hamilton, Ont. Brandon, Man.	—9:00 am—11:00 pm —5:00 am—midnight
CMGF CMKM CRCS KFIO	ak 250		Matanzas, Cuba. Manzanillo, Cuba Chicoutimi, P. Q. Spokane, Wash.	-8:00 am-10:00 pm
KFSG KRKD KRSC KTBC	ak 500 ak 500 ak 250 z 1000	a (2.5) a (2.5) DP	Los Angeles, Calif. Los Angeles, Calif. Seattle, Wash. Austin, Texas	-9:00 am-3:00 am -All night station
WCOP WDEL WISN WJBO WTAW	ak 500 ak 250 ak 250 ak 500 ak 500	D	Boston, Mass. Wilmington, Del. Milwaukee, Wis. Baton Rouge, La. College Sta., Tex.	—8:00 am—4:00 pm —9:00 am—11:00 pm —8:00 am—1:00 am —7:45 pm—1:00 am
1130	kcys.	(265	5.3)	
CMJI KSL WJJD WOV XEJP	ak 150 ak 50000 ak 20000 ak 1000 z 100	C Dn D	Clego de Avila, Cuba Salt Lake City, Ut. Chicago, Ill. New York, N. Y. Mexico City, D. F.	Noon10:00 pm 8:30 am3:00 am 6:45 am6:45 pm
1140	kcys.	(263	.0)	
CMCW KVOO WAPI WSPR	dk 500 ak 25000 ak 5000 ak 500	N1 C1 DM	Havana, Cuba Tulsa, Okia. Birmingham, Ala. Springfield, Mass.	6:55 am 7:00 am5:45 pm
1150	kcys.	(260	0.7)	
CMJF WHAM XEBP XEC XEDW	z 200 ak 50000 z 250 ak 100 z 20	B	Camaguey, Cuba Rochester, N. Y. Durango, Dgo. Tijuana, B. Cfa. Minatitlan, Ver.	6:30 ammidnight
1160	kcys.	(258	3.5)	
CMHJ CMKG WOWO WWVA XEAS XED XEFM XEFM	ak 175 z ak 10000 ak 5000 ak 50 ak 2500 z 20 ak 500	B1 C1	Cienfuegos, Cuba Santiago, Cuba Fort Wayne, Ind. Wheeling, W. Va. Saltillo, Coah. Guadalajara, Jal. Leon, Gto. Juarez, Chih.	-6:00 amNoon-midnight9:00 am-2:00 am

```
1170 kcys.
                      (256.3)
          ak
                                Havana, Cuba
                                                           8:00 am—midnight
                               Philadelphia, Pa.
Mexico City, D. F.
          ak 50000
                                                           -6:00 am-1:00 am
               1000
1180 kcys.
                      (254.1)
CMJO
          ak
                               Ciego de Avila, Cuba
                      B2
KEX
          ak
               5000
                               Portland, Ore.
                      Albuquerque, N. M.
CDn(5) Minneapolis, Minn.
New York, N. Y.
C(5) Macon, Ga.
ков
          ak 10000
                                                         -1:00 pm-11:00 pm
WDGY
               1000
          ak
WINS
          ak
               1000
WMAZ
               1000
          ak
                                                           -6:45 pm—7:00 pm
                500
XEFA
                                Tacuba, D. F.
                      (252.0)
1190
          kcys.
                      D . . .
                               Santiago, Cuba
Visalia, Calif.
KTKC
                 250
          ak
VONF
                500
                       1195
          ak
                               St. John's, Nfld.
WATR
                               Waterbury, Conn.
San Antonio, Tex.
Huntington, W. Va.
          ak
                 100
                      DXZ
WOAI
          ak 50000
                                                           -7:30 am--12:30 am
WSAZ
          ak
               1000
                                                           -6:00 am-7:00 pm
         kcys.
                      (249.9)
1200
                      ....F
CFGP
                 100
            z
                                Grande Prairie, Alta.
CHAB
CKNX
                 100
          ak
                                                          —9:00 am—12:30 am
                               Moose Jaw, Sask.
Wingham, Ont.
                                                         —11:00 am—1:00 am
—9:30 am—11:30 pm
          dk
                 100
CKTB
          ak
                 100
                               St. Catharines, Ont.
CMCO
          ad
                 250
                                Havana, Cuba
                               Ada, Okla.
Jonesboro, Ark.
KADA
          ak
                 100
                       DM
                      (.25) P
N
KBTM
          ak
                 100
KDNC
          7.
                 100
                               Lewistown, Mont.
Sioux Falls, S. Dak.
KELO
                 100
          7.
                       (.25)
(.25)
(.25)
KFJB
          ak
                 100
                                Marshalltown, Ia.
                                                           -7:00 am—10:00 pm
                               Mampa, Idaho
Grand Junc., Colo.
Coeur d'Alene, Idaho
Fergus Falls, Minn.
KFXD
          ak
                 100
                                                          -8:00 am-11:00 pm
KFXJ
          ak
                 100
KGCI
                 100
                       ĎΡ
          z
KGDE
KGEK
KGFJ
                       (.25)
                 100
          c
                                                         -8:00 am-10:00 pm
          ak
                100
                               Sterling, Colo
          ak
                 100
                               Los Angeles, Calif.
                                                          —24 hours daily
                       (.25)
KGHI
          ak
                 100
                               Little Rock, Ark.
Greenville, Texas
                                                            8:30 am-11:00 pm
KGVL
                 100
                       ĎΡ
                      (.25)
(.25)
(.25)
KMLB
          ak
                 100
                               Monroe, La.
KOOS
          ak
                100
                               Marsh field, Ore.
                                                          -10:00 am-7:45 pm
-11:00 am-midnight
                               Lowell, Ariz.
KSUN
                 100
          ak
KVCV
KVEC
                      Ď...
                               Redding, Calif.
San Luis Obispo, Calif.
Bellingham, Wash.
                100
          ak
                 250
          ak
KVOS
          dk
                 100
                        M
KWG
                               Stockton, Calif.
Winona, Minn.
Bangor, Maine
          ak
                 100
                                                          -10:00 am-3:00 am
KWNO
          ٠z
                 250
                       D
                      (.25)
C
WABI
          ak
                 100
WAIM
          ak
                 100
                                Anderson, S. C.
                                                          -6:00 am-10:00 pm
WAYX
                       (.25)
                                Waycross, Ga.
          ak
                 100
WBBZ
                       M (.25) Ponca City, Okla.
Huntsville, Ala.
          ak
                 100
                                                          -8:00 am-10:00 pm
WBHP
                 100
          ak
                                New Orleans, La.
Rapid City, S. Dak.
WBNO
          ak
                 100
                                                            -1:00 pm to midnight
WCAT
WCAX
WCLO
                                                         -Noon-2:00 pm
          ak
                 100
                       D
                       (.25)
(.25)
                               Burlington, Vt.
Janesville, Wis.
                 100
          ak
                 100
          ak
                      (.25)
P
WCPO
WDSM
                                                          -7:00 am-11:30 pm
          ak
                 100
                                Cincinnati, Ohio
                 100
                                Superior, Wis.
WEST
          ak
                 100
                       3 (.25)
                                Easton, Pa.
                                South Bend, Ind.
WFAM
          ak
                 100
                       (.25) Kinston, N. C.
(.25) Canton, Ohio
(.25) Green Bay, Wis.
C (.25) Utica, N. Y.
WFTC
                 100
          ak
WHBC
          ak
                 100
WHBY
          ak
                 100
WIBX
          ak
                 100
                                                          -5:30 am-1:00 am
WIL
          ak
                 100
                       (.25)
                                St. Louis, Mo.
WJBC
          ak
                       Š (.25)
                               Bloomington, Ill.
                                                          -4:00 pm-8:30 pm
                 100
WJBL
                 100
                                Decatur, Ill.
New Orleans, La.
          ak
WJBW
          ak
                 100
                                                           -All night station
WJNO
                 100
                         (.25)
                               W. Palm Beach, Fla.
          ak
                                                         -7:00 am-11:00 pm
WJRD
          ak
                 250
                       D
                                Tuscaloosa, Ala.
                       3 (.25)
                                                         -8:00 am-11:00 pm
-7:00 am-11:00 pm
WKBO
          ak
                 100
                               Harrisburg, Pa.
WLVA
                       (.25)
                               Lynchburg, Va.
High Point, N. C.
          ak
                 100
                       Ď
WMFR
          ak
                 100
                       (.25)
                               Lapeer, Mich.
                 100
WMPC
          ak
```

```
WOLS
                            Florence, S. C.
                            Columbus, Ga.
Salisbury, Md.
Hartford, Conn.
                    (.25)
D
                                                   -8:00 am-10:30 pm
WRBL
         ak
               100
WSAL
               250
WTHT
         ak
              100
                    M
                                                   -7:00 am-4:15 pm
                    DP
WTOL
              100
                            Toledo, Ohio
         7.
WWAE
                            Hammond, Ind
              100
         ak
                           Chihuahua, Chih.
XEBU
               50
```

1210 kcys. (247.8)

```
Sherbrooke, P. Q.
Stratford, Ont.
Aklavik, N.W.T.
Prince Albert, Sask.
                100
CHLT
          z
                                                         -8:00 am-9:00 pm
CJCS
          ak
                 50
                       . . . .
CJCU
                 50
          z
CKBI
          ak
                100
                                                          -9:45 am—1:00 am
                               Hull, P. Q.
Cobalt, Ont.
Santa Clara, Cuba
CKCH
                      F
                                                         -8:00 am-11:00 pm
          ak
                100
CKMC
          ak
                 50
                150
CMHI
          ak
                               Alexandria, La.
Wichita, Kans.
                                                         -7:00 am-
                      (.25)
KALB
          ak
                100
                                                         -7:30 am-midnight
KANS
                100
                      Ň
          ak
KASA
                               Elk City, Okla.
                                                           -7:00 am—8:00 pm
                100
                       . . . .
                               Devils Lake, N. D.
                                                           -7:30 am—9:30 pm
KDLR
          ak
                100
                      M
                               Monterey, Calif.
                100
KDON
                100
                               Klamath Falls, Ore.
KFJI
KFOR
          ak
                                                         -8:00 am-11:15 pm
                       CM(.25) Lincoln, Nebr.
          ak
                100
                               Fort Smith, Ark.
Cape Girardeau, Mo.
KFPW
                 100
                       5 (.25)
M2
KFVS
          ak
                 100
                               San Bernardino, Cal. -9:00 am-3:00 am
                 100
KFXM
          ak
KGLO
                       C (.25) Mason City, Iowa
M Olympia, Wash.
                 100
          7.
          ak
                      M
                 100
                               Okmulgee, Okla.
Garden City, Kans.
Carlsbad, N. Mex.
Kilgore, Texas
Helena, Mont.
KHBG
                 100
                      D
                                                         -8:00 am-10:00 pm
KIUL
          ak
                 100
                 100
KLAH
          ak
KOCA
          ak
                 100
                       (.25)
KPFA
                 100
                       (.25)
                               Pasadena, Calif
                                                         KPPC
          ak
                 100
                       ĈΦ
                 100
                               Sacramento, Calif.
KROY
          ak
                      M (.25) Ardmore, Okla.
Watertown, S. Dak.
                                                         -8:00 am-11:00 pm
KVSO
          ak
                100
KWTN
          ak
                 100
                                                         -7:00 am-9:00 pm
                               Zanesville, Ohio
WALR
          ak
                 100
                      M
                 100
                               Wilkes-Barre, Pa.
WBAX
          ak
                                                          —Sun, 11:00 am—9:15 pm
WBBL
          ak
                               Richmond, Va.
                 100
                               Lima, Ohio
Red Bank, N. J.
                                                           -6:00 \text{ am} - 5:15 \text{ pm}
WBLY
          ak
                 100
                       D
WBRB
          ak
                 100
                       3
N
                               Columbus, Ohio
                                                           -7:00 am—11:00 pm
WCOL
          ak
                 100
                                                          -11:00 am-7:00 pm
WCRW
          ak
                 100
                                Chicago, Ill.
                         (.25) Harrisburg, Ill.
Chicago, Ill.
White Plains, N. Y.
WEBO
          ak
                 100
                 100
WEDĊ
          ak
WFAS
                 100
          ak
                               St. Augustine, Fla. Freeport, N. Y.
                       (.25)
WFOY
WGBB
                 100
          ak
                               Freeport, N. Y. Gulfport. Miss
                 100
          ak
                       (.25)
WGCM
          ak
                 100
                               Newburgh, N. Y. Grenada, Miss.
                                                         -7:30 am-midnight
WGNY
                 100
WGRM
          ak
                 100
                 250
                       DP
                                Greenfield, Mass.
WHAI
                       (.25)
(.25)
(.25)
                                                         -7:00 am-1:05 am
WHBF
          ak
                 100
                               Rock Island, Ill.
          ak
ak
                               Anderson, Ind.
Poynette, Wis.
WHBŪ
                 100
WIBU
                 100
                               Gadsden, Ala.
Hagerstown, Md.
                                                          -8:00 am-10:30 pm
                        .25)
WJBY
                 100
          ak
                       Dn(.1)
WJEJ
          ak
                  50
                                                          —7:15 am—12:30 am
WJIM
                 100
                        .25)
                               Lansing, Mich.
                               Jamestown, N. Y.
WJTN
          ak
                 100
                       B (.25)
                                                         —8:00 am—10:30 pm
—6:00 am—midnight
WJW
WKOK
                       (.25)
                                Akron, Ohio
          ak
                 100
                                Sunbury, Pa.
          ak
                 100
                       P (.25) Middlesboro, Ky.
WLMU
                 100
          Z
                                                          —7:30 am—10:00 pm
                       (.25)
                                Hibbing, Minn.
Manitowoc, Wis.
          ak
                 100
WMFG
WOMT
          ak
                 100
                       D..
                               Thomasville, Ga.
Rochester, N. Y.
Chicago, Ill.
                                                            -8:00 am--6:00 pm
WPAX
WSAY
           ak
                 100
                                                          -7:00 am-4:30 pm
                 100
                       D
                       4 (.25)
(.25)
                                                           -6:00 am—midnight
-7:00 am—1:00 am
WSBC
          ak
                 100
                                Nashville, Tenn.
WSIX
WSNJ
           яk
                 100
                      D Bridgeton, N. J.
N (.25) Charlotte, N. C.
Springfield, Ill.
                 100
                                                          —7:00 am—midnight
 WSOC
           ak
                 100
 WTAX
           ak
                 100
                                                          —11:00 am—9:00 pm
XEAT
           ak
                 250
                                Parral, Chih.
                       . . . .
 XEE
           ak
                  50
                                Durango, Dgo.
Juarez, Chih.
                       . . . .
XEFV
           ak
                 100
                                Puebla, Pue.
XETH
           ak
                 100
                       . . . .
```

1220 kcys. CMJE z 50 KFKU ak 1000 KTMS z 500 KWSC ak 1000 WCAD ak 500 WCAE ak 1000 WDAE ak 1000 WREN ak 1000 XEBL z 50 XEDA z 200 XETF ak 12	Camaguey, Cuba a (5) Lawrence, Kans. B Santa Barbara, Cal. S2 Seattle, Wash. 2 (5) Pulman, Wash. D Canton, N. Y. MR (5) Pittsburgh, Pa. C (5) Tampa, Fla. Ba(5) Lawrence, Kans Mazatlan, Sin Gral. Anaya, D. F Veracruz, Ver.	-3:30 pm-7:30 pm -9:45 am-12:30 am -12:30 pm-4:00 pm -7:00 am-2:30 am -7:30 am-midn't8:00 am-7:00 pm
1230 kcys. CMCB z 150 KGBX ak 500 KGGM ak 1000 KYA ak 1000 WFBM ak 1000 WNAC ak 1000 XEAZ z 200 XEG z 250 1240 kcys.	(243.8) Havana, Cuba N Springfield, Mo Albuquerque, N. M. (5) San Francisco, Cal. C (5) Indianapolis, Ind. R (5) Boston, Mass Zacatecas, Zac Monterrey, N. L. (241.8)	8:00 am11:00 pm 9:30 am11:30 pm 7:30 am1:00 am 6:00 am1:00 am
CJCB ak 1000 CMHB z 50 KGCU ak 250 KLPM ak 1000 KTFI ak 1000 WKAQ ak 1000 WXYQ ak 1000 XEKL z 500 XEKL z 500 XEME z 50	F Syndey, N. S. Sancti Spiritus, Cub I Mandan, N. Dak. IXZ Minot, N. Dak. M Fort Worth, Texas Twin Falls, Idaho San Juan, P. R. Detroit, Mich. Leon, Guan. Saltillo, Coah. Merida, Yuc.	—7:00 am—11:00 pm a —6:00 am—9:30 pm —
CMCK ak 150	(239.9) Santiago, Guba	
NRN C S0 KFOX ak 1000 KIT ak 250 KXOK z 1000 WAIR ak 1000 WHBI ak 1000 WHBI ak 1000 WNEW ak 1000 WTCN ak 1000 XEAI z 500 XEXH z 250	Tegucigalpa, Hond. Long Beach, Calif. M (.5) Yakima, Wash. P St. Louis, Mo. D WinstSalem, N. C. 2 XZ Northfield, Minn. B New Orleans, La. a (2.5) Newark, N. J. 2 XZ Minneapolis, Minn. a (2.5) New York, N. Y. B (5) Minneapolis, Minn. Mexico City, D. F. San Luis Pot., S.L.P.	-6:00 am-88 -7:00 am-midnight -All night station -7:00 am-midnight
KFOX ak 1000 KIT ak 250 KXOK z 1000 WAIR ak 250 WCAL ah 1000 WDSU ak 1000 WHBI ak 1000 WLB ak 1000 WNEW ak 1000 WTCN ak 1000 XEAI z 500	Tegucigalpa, Hond. Long Beach, Calif. M (.5) Yakima, Wash. P St. Louis, Mo. WinstSalem, N. C. XZ Northfield, Minn. New Orleans, La. a (2.5) Newark, N. J. XZ Minneapolls, Minn. a (2.5) New York, N. Y. B (5) Minneapolls, Minn. Mexico City, D. F.	-7:00 am-midnight -All night station -7:00 am-midnight

```
Grd. Rpds., Mich.
Baltimore, Md.
                                                              -6:30 am-midnight
WASH
                 500
                       DaN
                 500
                       R (1)
R (5)
                                                              -7:00 am—midnight
WFBR
          ak
                                 Jackson, Miss.
WJDX
          ak
                1000
                                 Gd. Rapids, Mich.
WOOD
          ak
                 500
                        Na
                                                            -7:00 am-midnight
                 250
                                 Jalapa, Ver.
XEXB
          ak
                        . . . .
XEXE
                                 Texcoco, D. F.
                  17
          7
1280 kcys. (234.2)
CMKO
KFBB
                                 Holguin, Cuba
           ak
                1000
                        C (5)
                                 Great Falls, Mont.
                                 Oakland, Calif.
Camden, N. J.
Asbury Park, N. J.
Chattanooga, Tenn. —7:30 am—12:30 am
Madison, Wis.
KLS
WCAM
           яk
                 500
          аk
WCAP
           ak
                 500
                        C (5)
N (5)
WDOD
           ak
                1000
WIBA
           ak
                1000
                                                            -8:00 am-midnight
-8:00 am-midnight
                        C
M
                                 Worcester, Mass.
                 500
WORC
           ak
WRR
WTNJ
                 500
                                 Dallas, Texas
           ak
                 500
                                 Trenton, N. J.
Mexico City, D. F.
           ak
                        1
                 100
XEMX
           Z.
1290 kcys.
                        (232.4)
                                                            -6:55 am-1:00 am
-8:00 am-3:00 am
CMCU
KDYL
KLCN
                  500
                                 Havana, Cuba
           яk
                 1000
                        RX
                                 Salt Lake City, Ut.
           ak
                 100
                        D
                                 Blytheville, Ark.
           ak
                                 Houston, Texas
Duluth, Minn.
                        C (5)
N (5)
C (5)
KTRH
                 1000
           яk
                                                              -8:00 am-1:00 am
WEBC
           ak
                 1000
                                                            —7:30 am—12:30 am
—9:30 am—ss
                                 Pittsburgh, Pa.
Saranac Lake, N. Y.
 WJAS
           ak
                 1000
 WNBZ
           ak
                  100
                        D
                                                             -5:45 am-11:30 pm
                        (2.5)
                 1000
                                  San Juan, P. R.
 WNEL
           ak
1300 kcys.
                        (230.6)
                                  Trujillo, D. R.
Portland, Ore.
 HI7P
                 1000
                        M
 KALE
           ak
                                  Los Angeles, Calif.
 KFAC
           ak
                 1000
                                                             -All night station
 KFH
                        C(5)
                                  Wichita, Kans.
           ak
                 1000
                                  Guatemala City, Guat.
                        1305
 TG1
           ak
                 1000
                                 Brooklyn, N. Y.
New York, N. Y.
New York, N. Y.
 WBBR
           ak
 WEVD
           ak
                 1000
                 1000
1000
 WFAB
           ak
                                  Greenville, S. C.
 WFBC
                        N(5)
           ak
                                                             -6:00 pm-midnight
                 1000
                                  Troy, N. Y.
 WHAZ
           ak
                                  Sheboygan, Wis.
 WHRI.
                  250
                        (228.9)
 1310 kcys.
                        ....F
                                  Charlottetown, P.E.I.
 CHCK
                   50
            ak
 CJKL
CJLS
                  100
                                  North Bay, Ont.
Yarmouth, N. S.
            ak
                  100
            яk
                                  Quebec, P. Q.
Corsicana, Tex.
Fresno, Calif.
Kansas City, Kans.
                                                              -7:55 am-11:30 pm
 CKCV
                  100
            ak
                  100
 KAND
KARM
                        D
            ak
                  100
                         \mathbf{c}
 KCKN
            ak
                   100
                         (.25)
                                  Jerome, Ariz.
Dublin, Texas
Okla. City, Okla.
Lubbock, Texas
Kalispell, Mont,
Kearney, Nebr.
Watsonville, Calif.
 KCRJ
                   100
            ak
                                                              —7:00 am—10:45 pm
                         (.25)
(.25)
 KFPL
            dk
                  100
                                                              -8:00 am-midnight
                  100
 KFXR
KFYO
            ak
                                                              —8:00 am—10:15 pm
—9:00 am—11:00 pm
                         (.25)
            ak
                   100
                                                               -9:00 am-
 KGEZ
            ak
                   100
                         . . . .
                                                              —7:00 am—10:00 pm
 KGFW
            ak
                   100
  KHUB
            ak
                   250
                         D
XZ
                                  Juneau, Alaska
Pampa, Texas
Lufkin, Texas
 KINY
            ak
                   100
 KPDN
            ak
                   100
                         ĎΡ
                   100
  KRBA
                         (.25)
(.25)
                                  Shreveport, La.
Rochester, Minn.
Santa Fe, N. Mex.
Sherman, Texas
                   100
  KRMD
            ak
                                                              -7:00 am-12:15 am
                   100
  KROC
            ak
 KRQA
KRRV
                   100
            ak
                   250
                         D Santa Rosa, Calif.
Cedar City, Utah
N(.25) El Paso, Texas
                                                              —11:00 am—9:00 pm
  KSRO
                   250
  KSUB
                   100
            ak
                                                              —8:30 am—1:00 am
  KTSM
            ak
                   100
                                                               --7:00 am---ss
                                   Lafayette, La,
Moorhead, Minn.
  KVOL
            ak
                   100
                          (.25)
  KVOX
                   100
             z
                         DP Poplar Bluff, Mo.
D Jefferson City, Mo.
M(.25) Aberdeen, Wash.
                   100
  KWOC
  KWOS
                   100
                                                              --10:00 am--2:00 am
--8:00 am--8:00 pm
  KXRO
                   100
            ak
                                   Laurel, Miss.
                   100
                          (.25)
            ak
  WAML
                                                                -10:30 am-5:30 pm
                                   Marquette, Mich,
                   100
             ak
  WBEO
```

Į

```
WBOW
                         N (.25) Terre Haute, Ind.
                                                             -7:00 am-midnight
                                  Wilkes-Barre, Pa.
  WBRE
             ak
                   100
  WBRK
                   100
             7
                         C (.25) Pittsfield, Mass.
                                                             -7:00 am-1:00 am
  WCLS
                                                             -8:00 am-9:30 pm
-6:00 am-11:30 pm
             ak
                   100
                                  Joliet, III.
                         Solution (25) Ashland, Ky.
S (.25) El Paso, Texas
B (.25) Buffalo, N. Y.
Milwaukee, Wis.
Royal Oak, Mich.
  WCMI
             ak
                   100
  WĎAH
                    100
             ak
                                                               -11:30 am—10:30 pm (Sun. only)
  WEBR
             ak
                   100
                                                               7:00 am-midnight
  WEMP
             ak
                   100
                                                             -7:30 am-
                                                                          -88
  WEXL
                    50
             ak
                                                                           4:00 am
                                                               8:00 am-
  WFBG
                   100
            яk
                                  Altoona, Pa.
                                                             -7:00 am-
                                                                          -10:30 pm
  WFDF
             ak
                   100
                                  Flint, Mich.
                                                              6:00 am-midnight
  WGAU
WGH
WGTM
                                  Athens, Ga.
Newport News, Va.
Wilson, N. C.
                         (.25)
            7
                   100
             ak
                   100
                          (.25)
                                                            -7:00 am-midnight
                   100
                         Ď
  WHAT
            ak
                   100
                                  Philadelphia, Pa.
  WJAC
            ak
                   100
                         3 (.25)
                                 Johnstown, Pa.
  WLAK
                   100
            7.
                                  Lakeland, Fla.
                                 Muncie, Ind.
Laconia, N. H.
Auburn, N. Y.
Plattsburg, N. Y.
                         (.25)
  WLBC
            ak
                   100
                                                            -7:00 am-midnight
  WLNH
            ak
                   100
                         M
  WMBO
            ak
                   100
            ak
  WMFF
                   100
                         (.25)
                        M (.25) New Bedford, Mass.
MZ Washington, D. C.
  WNBH
                   100
            ak
                                                           -7:30 am-11:15 pm
  WOL
                  1000
  WRAW
                   100
            ak
                                 Reading, Pa.
Knoxville, Tenn.
                                                            -7:00 am-11:00 pm
  WROL
            ak
                   100
                         N(.25)
  WSAJ
            яk
                   100
                                  Grove City, Pa.
  WSGN
WSJS
            ak
                   100
                         B (.25) Birmingham, Ala.
                                 Birmingham, Ala. —8:00 am—midnight
Winston-Salem, N. C.—8:00 am—10:00 pm
Tallahassee, Fla. —8:00 am—midnight
            ak
                   100
 WTAL
WTEL
            ak
                  100
                        (.25)
                                 Tallahassee, Fla.
            ak
                  100
                                 Philadelphia, Pa.
                                                              -8:00 am—midnight
  WTJS
            ak
                  100
                         (.25)
                                 Jackson, Tenn.
Elkhart, Ind.
  WTRC
                  100
            ak
                         (.25)
                                                            -7:00 am-10:30 pm
                                 Cordoba, Ver.
Irapuato, Guan.
Tampico, Tams.
Torreon, Coah.
 XEAG
                    10
            z
                         . . . .
 XEBO
                    25
            Z
                         . . . .
 XEFW
            ak
                  300
                        . . . .
                                                            -11:00 am-10:00 pm
 XETB
            ak
                  125
                         . . . .
 XEX
           ak
                  125
                                 Monterrey, N. L
 XEXS
           7
                  100
                                 Mexico City, D. F.
                        (227.1)
 1320
          kcys.
 CMOX
           ak
                  200
                                 Havana, Cuba
                                 Pueblo, Colo.
Honolulu, Hawaii
 KGHF
           ak
                  500
                                                             -9:00 am-1:00 am
                        \tilde{\mathbf{C}} M
 KGMB
           ak
                 1000
                                                             -1:30 am-6:00 pm
 KID
                  500
                                 Idaho Falls, Idaho
Des Moines, Iowa
                        (1)
           яk
 KRNT
           ak
                1000
                        C (5)
                                                             -6:00 am—1:00 am
-7:00 am—1:00 am
 WADC
                1000
                                 Akron, Ohio
York, Pa.
           ak
                        Ñ
 WORK
           ak
                1000
                                                             8:00 am-10:00 pm
 WSMB
           ak
                                 New Orleans, La.
                1009
                        R
 XEAU
                                 Tijuana, B. Cfa.
                        (225.4)
 1330
           kcys.
 CMHK
           z
                  250
                                 Cruces, Cuba
 KGB
           ak
                1000
                                 San Diego, Calif.
Tacoma, Wash.
                                                             -10:00 am—4:00 am
 KMO
                1000
                        M
                                                             -9:00 am-3:00 am
                                Corpus Christi, Tex.
Sioux City, Iowa
Hartford, Conn.
 KRIS
                  500
           7.
                       C (5)
 KSCJ
           ak
                1000
                                                           —7:00 am—1:00 am
—7:00 am—midnight
—7:00 am—1:00 am
 WDRC
                1000
           яk
 WSAI
                1000
                        MN(5)
           яk
                                 Cincinnati, Ohio
WTAO
                1000
           ak
                                Green Bay, Wis.
                       (223.7)
          kcys.
1340
CMAB
                 300
           7.
                                Pinar del Rio, Cuba
CMJL
KDTH
                       Camaguey, Cuba
DP Dubuque, Iowa
Huron, S. Dak,
N (2.5) Butte, Mont,
Dodge City, Kans.
C(1) Pensacola, Fla.
                  75
           z
                 500
           7.
KGDY
KGIR
           ak ·
                 250
                                                           -10:00 am-1:00 am
           ak
                1000
KGNO
           ak
                 250
                                                            -8:30 am—midnight
WCOA
          ak
                 500
WFEA
                 500
          ak
                       MN(1) Manchester, N. H.
                                                          -6:30 am-1:00 am
WSPD
               1000
                       B (5)
          ak
                                Toledo, Ohio
                                                            -6:30 am-
                                Obregon, Son.
Mexico City, D. F.
XEAP
                  50
          z
                       . . . .
                                                           —....
                 200
XEBS
                       . . . .
                                                            -.....
XEDH
                 200
                                Villa Acuna, Coah.
          z
                                                             -. . . . . .
XEXD
                 350
                                Jalapa, Ver.
                       (222.1)
          kcys.
1350
CMCA
                 450
                               Havana, Cuba
```

```
CMKW
KIDO
                           N (2.5) Boise, Idaho
BM(5) St. Louis, Mo.
1 (1) Zarephath, N. J.
New York, N. Y.
R Richmond, Va.
                   1000
            ak
                                                                      -9:00 am-2:00 am
                                                                   -6:30 am-1:00 am
-6:00 am-...
 KWK
            ak
                   1000
 WAWZ
                    500
            ak
 WBNX
            ak
                   1000
            ak
 WMBG
                    500
                                                                   -7:00 am-midnight
 1360 kcys.
                           (220.4)
                     50
                                     Ciego de Avila, Cuba
Enid, Okla.
 KCRC
                    250
                           M
            ak
                                                                     -8:00 am-11:00 pm
 KGER
                  1000
            аk
                                     Long Beach, Calif.
                           N (1)
C (5)
 WCSC
                                     Charleston, S. C.
Syracuse, N. Y.
Chicago, Ill.
                                                                   —7:00 am—midnight
—7:00 am—1:00 am
—8:00 am—9:00 pm
            ak
                    500
 WFBL
WGES
            ak
                  1000
            ak
                   500
                           1(1)
 WOBC
                  1000
                                     Vicksburg, Miss.
 WSBT
                   500
                                     South Bend, Ind.
                           (218.8)
 1370
            kcys.
                          \dot{\mathbf{F}}^{\cdots}
                                     Flin Flon, Man.
Moncton, N. B.
CFAR
                    100
CKCW
CMGE
            ak
                    100
                                     Cardenas, Cuba
Astoria, Ore.
Kansas City, Mo.
Seattle, Wash.
                    150
                                                                   —10:00 am—10:30 pm
—11:00 am—8:30 pm
—7:00 am—2:00 am
—3:00 pm—1:00 am
            ak
 KAST
            ak
                    100
                          <u>.</u>...
 KCMO
                    100
            ak
 KEEN
            ak
                    100
 KELD
                    100
                                     El Dorado, Ark
                                                                   —11:00 am—3:00 am
—7:00 am—2:00 pm
—7:30 am—midnight
 KERN
            ak
                    100
                                     Bakersfield, Calif.
                                    Boone, Iowa
Fort Worth, Texas
Longview, Texas
KFGQ
            ak
                    100
                          D
KFJZ
                           (.25)
                    100
KFRO
                    250
                          Ď
            ak
                                                                      -7:00 am —ss
 KGAR
                          C (.25) Tucson, Arizona
4 Roswell, N. Mex.
                    100
            аk
 KGFL
            ak
                    100
KGKL
KICA
                    100
                           (.25)
                                    San Angelo, Texas
Clovis, N. Mex.
Durango, Colo.
            ak
            ak
                    100
                                                                   --9:00 am--11:00 pm
KIUP
            ak
                   100
                                                                   —10:00 am—11:00 pm
                                    Galveston, Texas
San Antonio, Tex.
Rapid City, S. Dak.
La Junta, Colo.
 KLUF
            ak
                   100
                                                                   —9:00 am—midnight
—8:00 am—9:00 pm
—8:00 am—midnight
                          5 (.25)
(.25)
 KMAC
            ak
                   100
KOBH
                    100
            ak
KOKO
KONO
                   100
                                                                     -8:00 am—11:30 pm
-7:00 am—11:00 pm
            аk
                          5
(.25)
3
            ak
                   100
                                     San Antonio, Tex.
                                     Berkeley, Calif.
Everett, Wash.
KRE
            ak
                   100
                                                                     -24 hours daily
KRKO
                     50
            ak
 KRMC
                   100
                          (.25)
M
                                     Jamestown, N. D.
            7.
KSLM
            ak
                   100
                                     Salem, Ore.
                                                                   -10:00 am-1:00 am
KTEM
            ak
                    250
                                     Temple, Texas
KTOK
                   100
                                    Oklahoma City, Ok.
Walla Walla, Wash.
Great Bend, Kans.
            hk
                          M
KUJ
            ak
                   100
                                                                   —9:30 am—1:00 am
KVGB
                   100
                          (.25)P
                                    Rock Springs, Wyo.
Sheridan, Wyo.
Albany, N. Y.
KVRS
                   100
KWYO
                   100
                           (.25)
            ak
                                                                   -9:00 am-midnight
WABY
                          B(.25)
            ak
                   100
                                                                   -7:00 am-midnight
WAGF
WATL
                   250
100
            ak
                                    Dothan, Ala.
Atlanta, Ga.
                          D
                                                                   --9:00 am-
                          (.25)
            яk
                                                                     -7:00 am-
                                                                                   -1:00 am
WBLK
                   100
                                    Clarksburg, W. Va.
Buffalo, N. Y.
            ak
                                                                    -6:00 am-
                          2 (.25)
(.25)
(.25)
(.25)
(.25)
WBNY
                   100
                                    Buffalo, N.
                                                                     7:30 am-midnight
WBTM
                   100
                                    Danville, Va.
                                                                  -7:00 am-10:00 pm
WCBM
                   100
            ak
                                    Baltimore, Md.
WDAS
WDWS
                   100
                                    Philadelphia, Pa.
            ak
                                                                  -8:00 am-midnight
                   100
           ak
                                    Champaign, Ill.
                          C(.25)
WEOA
            ak
                   100
                                    Evansville, Ind.
WFOR
                                    Hattiesburg, Miss.
           ak
                   100
                                                                  -8:00 am-9:00 pm
                                    Fort Wayne, Ind.
New Albany, Ind.
WGL
            ak
                   100
WGRC
                   250
                          D
                                    Memphis, Tenn.
Calumet, Mich.
Virginia, Minn.
Jackson, Mich.
WHBQ
           ak
                   100
                                                                     -8:00 am—11:30 pm
                          (.25)
C(.25)
(.25)
WHDF
           ak
                   100
                                                                   -10:30 am-6:30 pm
WHLB
                   100
           ak
WIBM
           ak
                   100
                                                                    -6:30 am—12:30 am
-7:30 am—midnight
                          Sy Lawrence, Mass. MSy(.25) Lowell, Mass. C (.25) Jacksonville, Fla.
WLLH
WLLH
                   100
           ak
           ak
                   100
                                                                    -7:30 am—midnight
-7:30 am—midnight
WMBR
           ak
                   100
WMFD
                   100
                                    Wilmington, N. C.
           ak
WMFO
                                   Decatur, Ala.
St. Paul, Minn.
           ak
                   100
                          D
                                                                  —8:00 am—6:30 pm
—7:00 am—1:00 am
—7:00 am—1:00 am
—7:00 am—10:15 pm
                          (.25) St. Paul, Minn.
C (.25) Davenport, Iowa
WMIN
                   100
           яk
WOC
           ak
                   100
WPAY
WPRA
WRAK
           ak
                   100
                                   Portsmouth, Ohio Mayaguez, P. R.
                          (.25)
           z
                   100
           ak
                   100
                          (.25)
                                    Williamsport, Pa.
                                   Augusta, Maine
Racine, Wis.
WRDO
           ak
                   100
                          M
                                                                  —8:00 am—11:15 pm
—8:25 am—midnight
                          (.25)
WRJN
                   100
```

```
WSAU
WSVS
XECZ
XEI
                               Wausau, Wis.
Buffalo, N. Y.
San L. Pot., S.L.P.
                                                          -7:00 am-11:15 pm
                 100
                       2D
                  50
          ak
                100
          7.
                       . . . .
                                Morelia, Mich.
          ak
                125
                       . . . .
                                Mexico City, D. F.
Owen Sound, Ont.
XĔĹZ
                 100
                       . . . .
                 100
                       (217.3)
1380
          kcys.
CMCR
                                Havana, Cuba
CMCX
KOH
                 150
                                Havana, Cuba
Reno, Nevada
                                                           -9:00 am-11:00 pm
          z
                       \dot{\mathbf{c}} . . .
                 500
                                                          -11:00 am-3:00 am
          ak
                                                            -7:00 am—10:00 pm
-8:30 am—midnight
KOV
WALA
                       Č1
                                Pittsburgh, Pa. Mobile, Ala.
          ak
                 500
                       Č (1)
                 500
          ak
                                La Crosse, Wis.
New Britain, Conn.
WKBH
                1000
          ak
                       \bar{\mathbf{D}}
                                                           —7:00 am <del>−s</del>s
WNBC
          ak
                 250
WSMK
                 200
                       C 1
          ak
                                Dayton, Ohio
                                                          --6:00 am-...
                       (215.7)
1390
          kcys.
                                                           -8:30 am-12:30 am
                                Yorkton, Sask
CJGX
           ak
                 100
                                Camaguey, Cuba
Little Rock, Ark.
CMJC
                 150
                       C (5)
KLRA
           ak
                1000
                                Phoenix, Ariz
                                                           -9:00 am-12:15 am
           ak
                1000
KOY
                 250
                                Lewiston, Idaho
KRLC
           ak
                       BM(2.5) Cleveland, Ohlo
D St. Albans, Vt.
                                                           -6:30 am-midnight
           ak
                1000
WHK
WODM
           dk
                1000
                       (214.2)
1400
          kcys.
                                Matanzas, Cuba
Santiago, Cuba
Hilo, T. H.
Ogden, Utah
Tulsa, Okla.
                                                           -8:00 am-11:00 pm
                 150
CKKR
                 100
                       CM
KHBC
                 250
           ak
KLO
KTUL
                 500
                                                           —9:30 am-—1:30 am
                       В
           ak
                       C (1)
                 500
           ak
                                Brooklyn, N. Y.
Brooklyn, N. Y.
Olean, N. Y.
                 500
WARD
           ak
                       \bar{2} (1)
WBBC
           ak
                 500
WHDL
           ak
                 250
                       n
                                                           -7:30 am-1:00 am
WIRE
           ak
                1000
                       MR (5) Indianapolis, Ind.
                                Brooklyn, N. Y. Brooklyn, N. Y.
WLTH
                 500
           яk
                 500
ŴŸŦŴ
           ak
                       (212.6)
          kcys.
 1410
                                 Vancouver, B. C.
Vancouver, B. C.
                   50
CKFC
           ak
CKMO
CMCQ
                  100
                       5
           ak
                                 Havana, Cuba
Grand Forks, N. D.
           ak
                5000
                 500
                        (1)
           ak
KFJM
                        (2.5) N Amarillo, Texas
N Medford, Ore.
                1000
 KGNC
           ak
 KMED
           ck
                  250
                                Boston, Mass.
Bay City, Mich.
Bluefield, W. Va.
                                                             -24 hours daily
                       M (1)
 WAAB
           ak
                 500
                                                           —9:00 am—12:30 am
—5:00 am—....
 WBCM
                 500
                        (1)
           ak
                 500
                        (1)
 WHIS
           ak
                                                             -7:30 am—midnight
-7:30 am—midnight
                 500
                                 Rockford, Ill.
 WROK
           ak
                       (1)
C (1)
                                Montgomery, Ala.
                 500
 WSFA
           ak
                        (211.1)
           kcys.
 1420
                                 Three Rivers, P. Q.
 CHLN
                  100
                                North Bay, Ont.
San Antonio, Texas
Aberdeen, S. D.
                                                             -11:00 am—11:30 pm
           ak
                  100
 CKGB
                                                           -7:00 am-12:15 am
                        (.25)
XZ
 KABC
           ak
                  100
                 100
 KABR
           ak
                                                           —7:30 am—ss
—2:00 pm—8:00 pm
                                 Albert Lea, Minn.
           ak
                  250
                       D
 KATE
                                 Portland, Ore.
 KBPS
                  100
           ak
                        (.25)
                                 Texarkana, Tex.
 KCMC
           ak
                  100
                                 Denton, Tex.
Price, Utah
                        ĎΡ
                  100
 KDNT
                       . . . .
P
                                                           -9:30 am-midnight
                  100
 KEUB
           ak
                                 St. Cloud, Minn.
 KFAM
                  100
                                 Fond du Lac, Wis.
 KFIZ
           ak
                  100
                        (.25) M Shawnee, Okla.
                                                           -8:00 am-10:00 pm
 KGFF
           ak
                  100
KGGC
KGIW
KIDW
                                 San Francisco, Cal.
                  100
           ak
                                                              -9:30 am—10:30 pm
           ak
                  100
                                 Alamosa, Colo.
                                Lamar, Colo.
Pecos, Texas
La Grande, Ore.
Palestine, Texas
Eugene, Ore.
Abilene, Texas
                                                             -9:00 am-8:00 pm
           ak
                  100
                                                             -8:00 am-10:00 pm
                  100
 KIUN
           ak
                       (.25) P
D
 KLBM
                  100
 KNET
           ak
                  100
 KORE
                  100
                        M
           àk
                        (.25)
P
                                                           -8:00 am-10:00 pm
           ak
                  100
 KRBC
                                 Beaumont, Tex.
                  100
 KRIC
           Z
                        D
                                 Midland, Texas
 KRLH
           ak
                  100
                        (.25) P Sloux City, Iowa
                  100
 KTRI
```

į

```
Yuma, Ariz.
KUMA
KWBG
KXL
                             Hutchnison, Kans.
         ak
               100
                     4 (.25)
               100
         ak
                             Portland, Ore.
                                                        All night station
WACO
WAGM
               100
                     \mathbf{C}
                             Waco, Texas
         яk
                             Presque Isle, Me.
         ak
               100
                                                        -11:00 am-7:00 pm
                                                        11:00 am— 7:00 pm
-7:00 am—7:00 pm
-9:00 am—10:00 pm
                     (.25)
               100
                             Chattanooga, Tenn.
WAPO
         ak
WAZL
         ak
               100
                             Hazleton, Pa.
WCBS
         ak
               100
                     (.25)
                              Springfield, Ill.
                                                       -8:00 am
                                                                   -11:00 pm
                     3 (.25)
3 (.25)
                             Charlottesville, Va.
Rocky Mount, N. C.
WCHV
         ak
               100
                                                        7:00 am
                                                                   midnight
WEED
         яk
               100
                             Battle Creek, Mich.
WELL
               100
                                                        7:30 am—midnight
         яk
                             Albany, Ga.
Cicero, Ill.
               100
         ak
WGPC
WHFC
                     (.25)
               100
                                                      —7:00 am—1:00 am
          ak
                             Wilmington, Del.
WILM
               100
                             Ironwood, Mich.
WJMS
               100
                     (.25)
WLAP
          ak
               100
                             Lexington, Ky.
                     (.25) B Erie, Pa.
C (.25) Springfield, Mass.
(.25) Detroit, Mich.
WLEU
          ak
               100
               100
                                                        7:00 am -midnight
WMAS
          яk
                             Detroit, Mich.
Joplin, Mo.
WMBC
                     (.25)
D
                                                        7:30 am
                                                                  -midnight
          ak
                100
WMBH
          ak
               100
                              Uniontown, Pa
                                                                   6:00 pm
                                                        4.00 am
WMBS
          ak
                250
                             Daytona Bch., Fla.
                100
WMFJ
          ak
                              Sheffield, Ala.
WMSD
                                                      —8:00 am—11:00 pm
                100
          ak
                     (.25) P
                             Watertown, N. Y.
WNNY
                100
          Z
WPAD
                     (.25)
C
                              Paducah, Ky.
                                                        7:00 am—midnight
          ak
                100
                              Parkersburg, W. V.
                100
WPAR
          ak
                     (.25)
                              Ponce, Puerto Rico
WPRP
          z
                100
                              Kenora, Ont.
                100
                     (209.7)
1430 kcys.
CMJP
                              Moron, Cuba
          ak
                     (5) B Los Angeles, Cal.
D North Platte, Neb.
BM(2.5) Des Moines, Iowa
                                                         10:00 am-3:00 am
               1000
KECA
          ak
                                                        8:00 am-6:15 pm
KGNF
               1000
          ak
                     C (1) X Columbus, Ohio
C (1) Rochester, N. Y.
C (1) Harrishura P.
KSO
          ak
                500
WBNS
                                                       -6:30 am
          ak
                500
                                                        -7:00 am-midnight
 WHEC
                500
          ak
ŴĦP
          ak
                500
                              Harrisburg, Pa. Memphis, Tenn.
                                                        -6:30 am—midnight
 ₩MPS
                500
                      (1) B
                              Memphis, Ter
Albany, N. Y.
          ak
                     \widetilde{\mathbf{C}}(\mathbf{1})
                                                        -8:00 am—1:00 am
                500
woko
          ak
                      (208.2)
 1440
          kcys.
                150
                              Havana, Cuba
Casper, Wyo.
CMOA
                500
 KDFN
          ak
                      M
                              Centralia, Wash
Houston, Texas
                                          Wash.
KELA
KXYZ
          ak
                500
               1000
                      В
                                                         -24 hours daily
          ak
                                                         6:30 am—11:30 pm
                              Greensboro, N. C.
Allentown, Pa.
 WBIG
               1000
                      C
          ak
                                                         6:30 am-
                                                                   –11:30 pm
 WCBA
                500
                     a
C(5)
          aj
                                                         7:00 am-midnight
 WMBD
          ak
               1000
                              Peoria, Ill.
                                                         1:00 pm-11:30 pm
 WSAN
                500
                      Na
                              Allentown, Pa
 XEFI
                250
                              Chihuahua, Chih.
         kcys.
 1450
                      (206.8)
                     · · · ·
                500
                              Victoria, B. C.
                                                        -10:45 am—12:15 am
 CFCT
          ak
                              Summerside, P.E.I.
Cienfuegos, Cuba
Wolf Point, Mont.
                                                         6:30 am-10:00 pm
                 50
 CHGS
          ak
 CMHM
                100
          7.
                      . . . .
 KGCX
          ak
               1000
                                                       —10:00 am—1:00 am
 KIEM
          ak
                500
                      M(1)
                              Eureka, Calif.
                                                       —7:30 am—1:00 am
 KTBS
                              Shreveport, La.
          ak
               1000
                      B (1)
C (1)
                              Atlanta, Ga.
 WAGA
                500
          ak
                              Cleveland, Ohio
                                                         6:30 am—midnight
                500
          ak
 WGAR
                              Jersey City, N. J.
Fall River, Mass.
                250
                                                         7:00 am—midnight
 WHOM
          ak
                      M
 WSAR
               1000
          ak
 XEF
                100
                              Juarez, Chih.
                      (205.4)
 1460
          kcys.
                              Holguin, Cuba
St. Paul, Minn.
Washington, D. C.
 CMKF
           ak 10000
                                                       —7:00 am—2:00°am
                      R (25)
 KSTP
WJSV
           ak 10000
                      (204.0)
 1470 kcys.
                              Spokane, Wash.
               5000
                      BM
               5000
                              Nashville, Tenn.
 WLAC
          ak
                      (202.6)
 1480 kcys.
                                                       -7:30 am-1:00 am
                              Oklahoma City, Ok.
 KOMA ak 5000
                      \mathbf{C}
```

```
WHIP
               5000
                             Hammond, Ind.
Buffalo, N. Y.
                                                      -7:30 am-5:30 pm
 WKBW ak
               5000
                                                      8:00 am-1:00 am
 1490 kcys.
                     (201.2)
 KFBK
           ak 5000
                             Sacramento, Calif.
 WCKY
          ak 10000
                             Covington, Ky.
                                                    -7:00 am-midnight
 1500 kcys.
                     (199.9)
 CJIC
                100
                             S. S. Marie, Ont.
                                                    -10:00 am-10:00 pm
 KAWM
                             Gallup, N. Mex.
          7.
                100
 KBIX
                     M
          ak
                100
                             Muskogee, Okla.
                                                    -8:00 am-11:00 pm
 KBST
                100
                             Big Spring, Texas
 KDAL
          ak
                100
                             Duluth, Minn.
 KDB
                     M(.25) Santa Barbara, Cal.
                100
          ak
 KGFI
                     (.25)
(.25)
          ak
                100
                             Brownsville, Tex.
 KGKB
KGKY
          ak
                100
                             Tyler, Texas
                     (.25)
D
          яk
                100
                             Scottsbluff, Neb.
                                                     -8:30 am-11:00 pm
 KNEL
                250
          ak
                             Brady, Texas
                                                      8:00 am-6:00 pm
 KNOW
                100
          ak
                             Austin, Texas
 KOTN
          ak
                100
                     D
                                                    —8:00 am—ss
—8:00 am—10:00 pm
                             Pine Bluff, Ark.
 KOVC
KPAB
KPLC
KPLT
                     (.25) Valley City, N. D.
(.25) P Laredo, Texas
(.25) Lake Charles, La.
                100
          ak
                100
          ak
                100
                250
                     Ď
                             Paris, Texas
 KPO
KRNR
          ak
                100M (.25)
                             Wenatchee, Wash.
                100M (.25)
100 P
          ak
                             Roseburg, Ore.
El Paso, Texas
 KROD
          ak
                             El Paso, Texa
Salina, Kans.
 KSAL
KUTA
                     (.25)
          ak
                100
          z
                100
                             Salt Lake City, Ut.
Logan, Utah
 KVNU
KVOE
                100
                     P
          ak
                     M
                100
                             Santa Ana, Calif.
                                                    -Noon to 2:00 am
 KWEW
                100
                     DP
          7.
                             Hobbs, N. Mex
K Y S M
K Y S M
W C N W
W D N C
               100
          ak
                             El Centro, Calif.
                                                    -11:00 am-midnight
                     (.25)P
               100
                            Mankato, Minn.
Brooklyn, N. Y.
          Z.
                     î (.25)
C
(.25)
          ak
               100
                                                     -9:00 am—midnight
          ak
               100
                             Durham, N. C.
                                                    -7:30 am-12:30 am
 WGAL
          ak
               100
                            Lancaster, Pa.
 WGIL
                250
                     ĎΡ
                             Galesburg, III.
 WHBB
               100
          ak
                                                    —7:30 am—ss
—7:30 am—10:00 pm
                             Selma, Ala.
                     (.25)
(.25)
 WHEF
               100
          ak
                             Kosciusko, Miss.
 WJBK
          ak
               100
                             Detroit, Mich.
                                                    —24 hours daily
 WKAT
                             Miami Beach, Fla.
               100
                     (.25) CY E. Dubuque, Ill.
 WKBB
          ak
               100
 WKBŸ
                            Richmond, Ind.
               100
                     (.25)
          ak
WKBZ
                     (.25)
D
          ak
               100
                            Muskegon, Mich.
                                                   -7:00 am -10:00 pm
WKEU
          ak
               100
                            Griffin, Ga.
WMBQ
         ak
               100
                            Brooklyn, N. Y.
WMEX
         ak
               100
                     (.25)
                             Boston, Mass.
WNBF
WNLC
          ak
               100
                            Binghamton, N. Y.
          ak
                     DΜ
               100
                            New London, Conn.
WOMI
         ak
               100
                     (.25)
                            Owensboro, Ky.
                                                     -6:00 am-midnight
WOPI
               100
         ak
                            Bristol, Tenn.
                                                    -7:00 am-10:30 pm
WRDW
                     C(.25)
         ak
               100
                            Augusta, Ga.
                                                     7:00 am—9:00 pm
WRGA
                                                   -8:00 am-11:00 pm
         ak
               100
                     (.25)
                            Rome, Ga.
                            Richmond, Va.
Rutland, Vt.
WRTD
               100
                                                     -7:00 am—1:00 am
WSYB
         ak
               100
                                                     -10:00 am---9:00 pm
WTMV
                     (.25)
         ak
               100
                           E. St. Louis, III.
Woodside, N. Y.
WWRL
         ak
               100
                    1 (.25)
(.25)
                                                    –8:00 am—midnight
wwsw
               100
                            Pittsburgh, Pa.
                    (198.6)
1510
        kcys.
CFRC
                            Kingston, Ont.
                                                     -Noon—11:00 pm
CKCR
               100
         ak
                            Waterloo, Ont.
                                                     -8:00 am—11:00 pm
                     (197.3)
1520
        kcys.
TGW
         ak 1000
                            Guatemala City, Guat.
1530 kcys.
                    (196.0)
KXBY
         ak
             1000
                            Kansas City, Mo. —
Guatemala City, Guat.
                                                   -8:00 am-3:30 am
TGW
         ak
             1000
                    'n
WBRY
         ak 1000
                            Waterbury, Conn.
                                                    -8:00 am-midnight
1550 kcys.
                    (193.4)
KPMC
        ak 1000
                    M
                           Bakersfield, Calif.
                                                    -10:00 am-2:00 am
-10:00 am-9:15 pm
WQXR ak
            1000
                           New York, N. Y.
```

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, M Mutual.

ALABAMA	Pine Bluff	<u>KSF</u> O 560 1000 C	DELAWARE
Discolations	KOTN 1500 100	KYA 1230 1000	
Birmingham WAPI 1140 5000 C WBRC 930 1000 R	Siloam Springs KUOA 1260 5000	San Jose KQW 1010 1000M	Wilmington WDEL 1120 250 R WILM 1420 100
WSGN 1310 100 B Decatur	CALIFORNIA	San Luis Obispo KVEC 1200 250	DISTRICT OF
WMFO 1370 100		Santa Ana KVOE 1500 100M	COLUMBIA
Dothan WAGF 1370 250	Bakersfield KERN 1370 100 N KPMC 1550 1000M	Santa Barbara KDB 1500 100M	Washington WJSV 1460 10000 C
Gadsden WJBY 1210 100	Berkeley KRE 1370 100	KTMS 1220 500 B Santa Rosa	WMAL 630 250 B WOL 1310 1000M
Huntsville WBHP 1200 100	Beverly Hills KMPC 710 500	KSRO 1310 250 Stockton	WRC 950 500 R
Mobile WALA 1380 500 C	Chico KHSL 1260 250	KGDM 1100 1000M KWG 1200 100 N	FLORIDA —
Montgomery WSFA 1410 500 C	El Centro KXO 1500 100	Visalia KTKC 1190 250	Daytona Beach WMFJ 1420 100
Selma WHBB 1500 100	Eureka KIEM 1450 500M Fresno	Watsonville KHUB 1310 250	Gainesville WRUF 830 5000
Sheffield WMSD 1420 100	KARM 1310 100 C KMJ 580 1000 N	HIIOD 1310 230	Jacksonville WJAX 900 1000 N
Tuscaloosa	Glendale KIEV 850 250	COLORADO	WMBR 1370 1000 N Lakeland
WJRD 1200 250	Hollywood KFWB 950 1000	Alamosa	WLAK 1310 100
ALASKA	Long Beach KFOX 1250 1000	KGIW 1420 100 Colorado Springs	Miami WIOD 610 1000 N
Anchorage KFOD 780 250	KGER 1360 1000 Los Angeles	KVOR 1270 1000 C Denver	WMBF 610 1000 WQAM 560 1000 C
Juneau	KECA 1430 1000 B	KFEL 920 500M KLZ 560 1000 C	Miami Beach WKAT 1500 100
KINY 1310 100 Ketchikan	KEHE 780 1000 KFAC 1300 1000	KOA 830 50000 R KPOF 880 1000	Orlando WDBO 580 1000 C
KGBU 900 500	KFI 640 50000 R KFSG 1120 500 KFVD 1000 1000	KVOD 920 500 B Durango	Pensacola
	KFVD 1000 1000 KGFJ 1200 100	KIUP 1370 100	WCOA 1340 500 C
ARIZONA	KHJ 900 1000M KMTR 570 1000	Grand Junction KFXJ 1200 100	St. Augustine WFOY 1210 100
Jerome KCRJ 1310 100	KNX 1050 50000 C KRKD 1120 500	Greeley KFKA 880 500M	St. Petersburg WSUN 620 1000 N
Lowell KSUN 1200 100	Merced KYOS 1040 250	La Junta KOKO 1370 100	'Γallahassee WTAL 1310 100
Phoenix	Modesto	Lamar	Tampa WDAE 1220 1000 C
KOY 1390 1000 C KTAR 620 1000 N	KTRB 740 250	KIDW 1420 100	WFLA 620 1000 N
Tucson	Monterey KDON 1210 100M	Pueblo KGHF 1320 500 B	West Palm Beach WJNO 1200 100 C
KGAR 1370 100 C	Oakland	Sterling	
KVOA 1260 1000 Yuma	KLS 1280 250 KLX 880 1000	KGEK 1200 100	GEORGIA
KUMA 1420 100	KROW 930 1000	CONNECTION	Albany WGPC 1420 100
ARKANSAS	Pasadena KPPC 1210 100	CONNECTICUT	Athens WGAU 1310 100
	Redding KVCV 1200 100	Bridgeport	Atlanta WAGA 1450 500 B
Blytheville KLCN 1290 100	Sacramento	WICC 600 500M , Hartford	WATL 1370 100
El Dorado KELD 1370 100	KFBK 1490 5000 N KROY 1210 100 C	WDRC 1330 1000 C WTIC 1040 50000 R	WGST
Fort Smith KFPW 1210 100	San Bernardino KFXM 1210 100M	WTHT 1200 100M New Britain	WRDW 1500 100 C Columbus
Hot Springs	San Diego KFSD 600 1000 B	WNBC 1380 250 New Haven	WRBL 1200 100 Griffin
KTHS 1060 10000 N Jonesboro	KGB 1330 1000M San Francisco	WELI 900 500	WKEU 1500 100 Macon
KBTM 1200 100 Little Rock	KFRC 610 1000M KGGC 1420 100	New London WNLC 1500 100M	WMAZ 1180 1000 C Rome
KARK 890 500 N		I 33741	TVDC 4 1500 100
KGHI 1200 100	KGO	Waterbury WATR 1190 100	WRGA 1500 100 Savannah WTOC 1260 1000 C

NORTH	AMERICAN B. C.	STATIONS BY LOC	ATIONS
Thomasville WPAX 1210 100	Rockford WROK 1410 500	Marshalltown	Lake Charles
Waycross WAYX 1200 100	Rock Island	KFJB 1200 100 Mason City	KPLC 1500 100 Monroe
WATA 1200 100	WHBF 1210 100 Springfield	KGLO 1210 100 C Shenandoah	KMLB 1200 100 New Orleans
HAWAII	WCBS 1420 100 WTAX 1210 100	KFNF 890 500	WBNO 1200 100
Hilo	Tuscola	Sioux City	WDSU 1250 1000 B WJBW 1200 100
KHBC 1400 250M Honolulu	WDZ 1020 250 Urbana	KSCJ 1330 1000 C KTRI 1420 100	WSMB 1320 1000 ₄ R WWL 850 10000 C
KGMB 1320 1000 C KGU 750 2500 N	WILL 580 1000		Shreveport KRMD 1310 100
KGC 750 2500 N	INDIANA	KANSAS	KTBS 1450 1000 N KWKH 1100 10000 C
IDAHO		Abilene KFBI 1050 5000	KWKII 1100 10000 C
Boise	Anderson WHBU 1210 100	Coffeyville KGGF 1010 1000M	MAINE
KIDO 1350 1000 N Coeur d'Alene	Elkhart	KGGF 1010 1000M Dodge City	Augusta
GGCI 1200 100	WTRC 1310 100 Evansville	KGNO 1340 250 Garden City	WRDO 1370 100M Bangor
Idaho Falls CID 1320 500	WEOA 1370 100 C WGBF 630 500 N	KIUL 1210 100	WABI 1200 100 WLBZ 620 500 C
Lewiston	Fort Wayne	Great Bend KVGB 1370 100	Portland
KRLC 1390 250 Nampa	WGL 1370 100 N WOWO 1160 10000 B	Hutchinson	WCSH 940 1000 R WGAN 640 500
FXD 1200 100 Pocatello	Gary WIND 560 1000	Kansas City	Presque Isle WAGM 1420 100
KSEI 900 250 N	Hammond	KCKN 1310 100 Lawrence	
Twin Falls KTFI 1240 1000 N	WHIP 1480 5000 WWAE 1200 100	KFKU 1220 1000 WREN 1220 1000 B	MARYLAND
	Indianapolis WFBM 1230 1000 C	Manhattan	Baltimore
ILLINOIS	WGVA 1050 1000 WIRE 1400 1000 R	KSAC 580 500 Pittsburg	WBAL 760 2500 B WBAL 1060 10000 B
Bloomington	Muncie	KOAM 790 1000 N	WCAO 600 500 C WCBM 1370 100
VJBC 1200 100 Carthage	WLBC 1310 100 New Albany	Salina KSAL 1500 100	WFBR 1270 500 R
VCAZ 1070 100	WGRC 1370 250	Topeka WIBW 580 1000 C	College Park W3XJ 1060 100
Champaign VDWS 1370 100	Richmond WKBV 1500 100	Wichita	Cumberland WTBO 800 250
Chicago VAAF 920 1000	South Bend WFAM 1200 100	KANS 1210 100 B KFH 1300 1000 C	Frederick
VBBM 770 50000 C VCBD 1080 5000	WSBT 1360 500		WFMD 900 500 Hagerstown
VČFL 970 5000 N	Terre Haute WBOW 1310 100 N	KENTUCKY	WJEJ 1210 50
VCRW 1210 100 VEDC 1210 100	West Lafayette WBAA 890 500	Ashland	Salisbury WSAL 1200 250
VENR 870 50000 B VGES 1360 500	WBAA 370 300	WCMI 1310 100 Covington	
/GN 720 50000M /JJD 1130 20000	IOWA	WCKY 1490 10000 N	MASSACHUSETTS
VLS 870 50000 B VMAQ 670 50000 R	Ames	Lexington WLAP 1420 100	Boston WAAB 1410 500M
/MBI 1080 5000 /SBC 1210 100	WOI 640 5000	Louisville WAVE 940 1000 N	WBZ 990 50000 B
Cicero	Boone KFGO 1370 100	WHAS 820 50000 C	WEEI 590 1000 C
VHFC 1420 100 Decatur	Cedar Rapids WMT 600 1000 B	Middlesboro WLMU 1210 100	WHDH 830 1000 WMEX 1500 100
VJBL 1200 100 East Dubuque	Davenport	Owensboro WOMI 1500 100	WNAC 1230 1000 R WORL 920 500
VKBB 1500 100 C	WOC 1370 100 C Decorah	Paducah	Fall River WSAR 1450 1000M
East St. Louis VTMV 1500 100	KGCA 1270 100 KWLC 1270 100	WPAD 1420 100	Greenfield WHAI 1210 250
Galesburg VGIL 1500 250	Des Moines	LOUISIANA.	Lawrence
Harrisburg VEBQ 1210 100	KRNT 1320 1000 C KSO 1430 500 B	Alexandria	WLAW 680 1000 WLLH 1370 100
Joliet VCLS 1310 100	WHO 1000 50000 R	KALB 1210 100	Lowell WLLH 1370 100M
Peoria WMBD 1440 1000 C	Dubuque KDTH 1340 500	Baton Rouge WJBO 1120 500 B	New Bedford WNBH 1310 100M
Quincy WTAD 900 1000	Iowa City WSUI 880 500	Lafayette KVOL 1310 100	Pittsfield WBRK 1310 100 C
77 I I I I I I I I I I I I I I I I I I	11.501 300 000	KVOL 1510 100 ¿	WBRE 1310 100 C

NOR'	TH AMERICAN B.	C. STATIONS BY	LOCATIONS
Springfield	St. Paul	Wolf Point	Gallup
WBZA 990 1000			1000 KAWM 1500 100
	OC WMIN 1370 10		Hobbs
	OM Virginia		E STATE STATE AND 100
Worcester		OC NEBRASK	
	OC Winona	~~	Roswell KGFL 1370 100
WTAG 580 1000		Clay Center	
WIAG 580 100	OK KWINO 1200 23	KMMJ 740	1000 Santa Fe
		Кеагпеу	KRQA 1310 100
MICHIGAN	MISSISSIPPI	KGFW 1310	100
MICHIGAN	MISSISSITTI	Lincoln	
B1 C 1	Grenada	KFAB 770 1	0000 C NEW YORK
Battle Creek	I	EFOR 1210	100 C
WELL 1420 10		Norfolk	
Bay City	Gulfport	WIAC 1040	1000 Albany
WBCM 1410 50	0 WGCM 1210 10	North Platte	WADI 1370 100
Calumet	Hattiesburg	VCNE 1420	1000 WOKO 1430 500 C
	WFOR 1370 10	0 Omaha	Auburn
WHDF 1370 10	Jackson	VOII 12/0	1000 B WMBO 1310 100
Detroit			500 Binghamton
WJBK 1500 10	Rosciusko	332/0332 500	
WJR 750 5000		0 WOW 590	
WMBC 1420 10		Scottsbluff	Brooklyn
	0 R WAML 1310 10	0 KGKY 1500	100 WARD 1400 500
	0 B Meridian		WBBC 1400 500
East Lansing	WCOC 880 50	0 C	WBBR 1300 1000
WKAR 850 100	0 Vicksburg	NEVADA	WCNW 1500 100
Flint	WOBC 1360 100	0	WLTH 1400 500
WFDF 1310 10	0 426. 2000	Reno	WMBO 1500 100
Grand Rapids		КОН 1380	500 C WVFW 1400 500
WASH 1270 50	00 N MISSOURI		Buffalo
	00 N	NEW HANGE	TUDENT DOO 1000 D
Ironwood	Cape Girardeau	— NEW HAMPS	WBNY 1370 100
WJMS 1420 10	00 KFVS 1210 10		WEBR 1310 100 B
Jackson	Columbia	Lacoma	WCD 550 1000 C
WIBM 1370 10		WLNH 1310	100M WGR 550 1000 C
Kalamazoo	I KING OOO O	Manchester	WSVS 1370 50
	Jefferson City	WEEA 1240	500 N Canton
		V	WCAD 1220 500
Lansing	Joplin	Portsmouth	
WJIM 1210 10		00 WHEB 740	
Lapeer	Kansas City		WESG 850 1000 C
	00 KCMO 1370 10		Freeport
	KMBC 950 100	JU (-)	WGBD 1210 100
Marguette	00 KXBY 1530 100		Jamestown
	WDIN OIG 10	TO IN TARCAD 1280	500
Muskegon		JU IVI	Mewpurgu
WKBZ 1500 10	00 Poplar Bluff	Atlantic Cit	
Royal Oak	KWOC 1310 10	00 WPG 1100	5000 C New York
	St. Joseph	Bridgeton	WABC 860 50000 C
	- 1 KEEO 680 25	00 WSNJ 1210	100 WBIL 1100 5000
Saginaw	St. Louis	Camden	WBNX 1350 1000
WHAL 950 50	ייי KFUO 550 5	/U 12/CAR4 1200	500 WBOQ 860 50000
	KMOX 1090 500	<i>10 G</i>	WEAR 000 S0000 K
NATION TO COME.		00 R Jersey City	WEVD 1300 1000
MINNESOTA	IX 11 IX 1330 IV	DO B WAAT 940	500 WFAB 1300 1000
	KXOK 1250 10		250 WHN 1010 1000
Albert Lea	WEW 760 10	00 Newark	WINS 1180 1000
KATE 1420 2		00 WHBI 1250	1000 WJZ 760 50000 B
Duluth	Springfield		50000M WMGA 570 1000
		no N	WNEW 1250 1000
	00 N KWTO 560 50	no Ked Bank	WNYC 810 1000
Fergus Falls		WBKB 1210	100 WOY 1130 1000
	00	— Trenton	WQXR 1550 1000
	MONTANA	WTNJ 1280	500 Olean
Hibbing WMFG 1210 1	00	Whippany	WHDL 1400 250
Mankato	Billings		50000
		nn N	liucisburg
Minneapolis	Butte	Larepnath	WMFF 1310 100
WCCO 810 500		00 N WAWZ 1350	500 Rochester
	00 C Great Falls	~~	WHAM 1150 50000 E
		00 C NEW MEX	WILEC 1420 500 C
	AA D	00 C NEW MEX	WSAY 1210 100
	Helelia	A **	
Moorhead		00 Albuquerqu	
	00 Kalispell	KGGM 1230	
Northfield	KGEZ 1310 1	00 KOB 1180	10000 N Schenectady
WCAL 1250 10	00 Lewistown	Carlsbad	WGY 790 50000 F
			100 Syracuse
Rochester	aa KDNC 1200 1	(() KLAN 1210	
Rochester KROC 1310 1	.00	••	Jineuse
Rochester KROC 1310 1 St. Cloud	Missoula	00 C KICA 1370	WFBL 1360 1000 (WSYR 570 1000 F

		OTHER DI LO	CATIONS
Troy WHAZ 1300 1000	WSAI 1330 1000 N W8XO 700 500000	Portland KALE 1300 1000M	York WORK 1320 1000 N
Utica WIBX 1200 100 C	Cleveland WCLE 610 500M	KBPS 1420 100 KEX 1180 5000 B	PUERTO RICO
Watertown WNNY 1420 100	WGAR 1450 500 C WHK 1390 1000 B	KGW 620 1000 R KOIN 940 1000 C	Mayaguez
White Plains	WTAM 1070 50000 R Columbus	KWJJ 1040 500 KXL 1420 100	WPRA 1370 100
WFAS 1210 100 Woodside	WBNS 1430 500 C	Roseburg	Ponce WPRP 1420 100
WWRL 1500 100	WCOL 1210 100 N WHKC 640 500	KRNR 1500 100M Salem	San Juan WKAQ 1240 1000
NORTH CAROLINA	WOSU 570 750 Dayton	KSLM 1370 100M	WNEL 1290 1000
	WHIO 1260 1000 C	DDNINGW	RHODE ISLAND
Asheville WWNC 570 1000 N	Lima	PENNSYLVANIA	Providence
Charlotte WBT 1080 50000 C	WBLY 1210 100	Allentown	WEAN 780 1000M WJAR 890 1000 R
WSOC 1210 100 N Durham	Portsmouth WPAY 1370 100	WCBA 1440 500 WSAN 1440 500 N	,WPRO 630 500 C
WDNC 1500 100 C Greensboro	Toledo WSPD 1340 1000 B	Altoona	SOUTH CAROLINA
WBIG 1440 1000 C	WTOL 1200 100	WFBG 1310 100 Easton	Anderson
High Point WMFR 1200 100	Youngstown WKBN 570 500 C	WEST 1200 100	WAIM 1200 100 C
Kinston WFTC 1200 100	Zanesville WALR 1210 100	Erie WLEU 1420 100 B	WCSC 1360 500 N
Raleigh WPTF 680 1000 N	1210 100	Glenside	Columbia WIS 560 1000 N
Rocky Mount	OKLAHOMA	WIBG 970 100 Greensburg	Florence WOLS 1200 100
WEED 1420 100 Wilmington	Ada	WHJB 620 250 C	Greenville WFBC 1300 1000 N
WMFD 1370 100	KADA 1200 100M Ardmore	Grove City WSAJ 1310 100	Spartanburg
Wilson WGTM 1310 100	KVSO 1210 100M Elk City	Harrisburg WHP 1430 500 C	WSPA 920 1000
Winston-Salem	KASA 1210 100 Enid	WKBO 1200 100	SOUTH DAKOTA
WAIR 1250 250 WSJS 1310 100 C	KCRC 1360 250M	Hazleton WAZL 1420 100	Aberdeen KABR 1420 100
	Muskogee KBIX 1500 100M	Johnstown WIAC 1210 100	Brookings
NORTH DAKOTA	Norman WNAD 1010 1000	WJAC 1310 100 Lancaster	KFDY 780 1000 Huron
Bismarck KFYR 550 1000 N	Oklahoma City KFXR 1310 100	WGAL 1500 100	KGDY 1340 250 Pierre
Devils Lake	KOMA 1480 5000 C KTOK 1370 100M	Philadelphia KYW 1020 10000 R	KGFX 630 200 Rapid City
KDLR 1210 100 Fargo	WKY 900 1000 N	WCAU 1170 50000 C WDAS 1370 100	KOBH 1370 100
WDAŸ 940 1000 N	Okmulgee KHBG 1210 100	WFIL 560 1000 B WHAT 1310 100	Sioux Falls
Grand Forks KFJM 1410 500	Ponca City WBBZ 1200 100M	WIP 610 1000	KELO 1200 100 N KSOO 1110 2500 N
Jamestown	Shawnee	WRAX 920 1000	Vermillion KUSD 890 500
KRMC 1370 100 Mandan	KGFF 1420 100M Tulsa	WTEL 1310 100 Pittsburgh	Watertown
KGCU 1240 250	KTUL 1400 500 C KVOO 1140 25000 N	KDKA 980 50000 B KQV 1380 500 C	Yankton
Minot KLPM 1240 250		WCAE 1220 1000 R	WNAX 570 1000 C
Valley City KOVC 1500 100	OREGON	WJAS 1290 1000 C WWSW 1500 100	TENNESSEE
KOVC 1500 100	Astoria	Reading WEEU 830 1000	Bristol
ОНЮ	KAST 1370 100 Corvallis	WRAW 1310 190	WOPI 1500 100 _Chattanooga
Akron	KOAC 550 1000	Scranton WGBI 880 500	WAPO 1420 100
WADC 1320 1000 C WJW 1210 100	Eugene KORE 1420 100M	WQAN 880 500 Sunbury	WDOD 1280 1000 C Jackson
Ashtabula	Klamath Falls KFJI 1210 100	WKOK 1210 100	WTJS 1310 100 Knoxville
WICA 940 250 Canton	La Grande	Uniontown WMBS 1420 250	WNOX 1010 1000 C
WHBC 1200 100	KLBM 1420 100 Marshfield	Wilkes-Barre	WROL 1310 100 N Memphis
Cincinnati WCPO 1200 100	KOOS 1200 100	WBAX 1210 100M WBRE 1310 100N	WHBQ 1370 100 WMC 780 1000 R
WKRC 550 1000 C WLW 700 500000 N	Medford KMED 1410 250 N	Williamsport WRAK 1370 100	WMPS 1430 500 B
		10/4 144	WREC 600 1000 C

		STITTONS BI LOC	ATTONG
Nashville	San Angelo	Pollingham	WYCY 4400 050 G
WLAC 1470 5000 C	KGKL 1370 100	Bellingham KVOS 1200 100M	WISN 1120 250 C WTMJ 620 1000 N
WSIX 1210 100	San Antonio	Centralia	WTMJ 620 1000 N Poynette
WSM 650 50000 N	KABC 1420 100	KELA 1440 500M	WIBU 1210 100
	KMAC 1370 100	Everett	Racine
TEXAS	KONO 1370 100	KRKO 1370 50	WRJN 1370 100
Abilene	KTSA 550 1000 C WOAI 1190 50000 N	Longview	Sheboygan
KRBC 1420 100	Sherman	KWLK 780 250	WHBL 1300 250 Stevens Point
Amarillo	KRRV 1310 250	Olympia KGY 1210 100M	WLBL 900 5000
KGNC 1410 1000 N	Temple	Pullman	Superior
Austin	KTEM 1370 250	KWSC 1220 1000	WDSM 1200 100
KNOW 1500 100 C	Texarkana KCMC 1420 100	Seattle	Wausau
KTBC 1120 1000	Tyler	KEEN 1370 100	WSAU 1370 100
Beaumont	KGKB 1500 100	KIRO - 710 1000 C KJR 970 5000 B	***************************************
KFDM 560 500 N	Waco	KJR 970 5000 B KOL 1270 1000M	WYOMING
KRIC 1420 100	WACO 1420 100 C	KOMO 920 1000 R	Casper
Big Spring	Weslaco	KRSC 1120 250	KDFN 1440 500
KBST 1500 100	KRGV 1260 1000 N Wichita Falls	KTW 1220 1000	Rock Springs
Brady	KGKO 570 250 C	KXA 760 250	KVRS 1370 100
KNEL 1500 250		Spokane KFIO 1120 100	Sheridan
Brownsville		KFPY 890 1000 C	KWYO 1370 100
KGFI 1500 100	Codes City	KGA 1470 5000 B	
College Station	Cedar City KSUB 1310 100	KHQ 590 1000 R	BAHAMAS
WTAW 1120 500 .	Logan	Tacoma KMO 1330 1000M	Nassau
Corpus Christi KRIS 1330 500 N	KVNU 1500 100	KMO 1330 1000M KVI 570 1000 C	ZNS 540 400
	Ogden	Walla Walla	
Corsicana KAND 1310 100	KLO 1400 500 B	KUJ 1370 100	CANADA
Dallas	KEUB 1420 100	Wenatchee KPO 1500 100M	AT DEDOCTA
KRLD 1040 10000 C	Salt Lake City	KPQ 1500 100M Yakima	ALBERTA
WFAA 800 50000 N	KDYL 1290 1000 R KSL 1130 50000 C	KIT 1250 250M	Calgary
WRR 1280 500M	KSL 1130 50000 C KUTA 1500 100		CFAC 930 1000 F
Denton KDNT 1420 100		WEST VIRGINIA	CFCN 1030 10000 F
Dublin	VERMONT	WEST VIRGINIA	CJCJ 690 100 F
KFPL 1310 100		Bluefield	Edmonton CFRN 960 100 F
El Paso	Burlington WCAX 1200 100	WHIS 1410 500	CJCA 730 1000 F
KROD 1500 100 KTSM 1310 100 N	Rutland	Charleston	CKUA 580 500 F
WDAH 1310 100 N	WSYB 1500 100	WCHS 580 500 C	Grande Prairie
Fort Worth	St. Albans	Clarksburg WBLK 1370 100	CFGP 1200 100
KFJZ 1370 100	WQDM 1390 1000 Springfield	Fairmont	Lethbridge
KTAT 1240 1000M WBAP 800 50000 N	WNBX 1260 500 C	WMMN 890 500 C	CJOC 950 100 F
Galveston	Waterbury	Huntington	DDIM GOVINGE
KLUF 1370 100	WDEV 550 500	WSAZ 1190 1000 Parkersburg	BRIT. COLUMBIA
Greenville	VIRGINIA	WPAR 1420 100 C	Chilliwack
KGVL 1200 100 Houston		Wheeling	CHWK 780 100 F
KPRC 920 1000 R	Charlottesville	WWVA 1160 5000 C	Kamloops
KTRH 1290 1000 C	WCHV 1420 100 Danville		CFJC 880 1000 F
KXYZ 1440 1000 B	WBTM 1370 100		Kelowna
Kilgore KOCA 1210 100	Harrisonburg	WISCONSIN	CKOV 630 100 F
Laredo	WSVA 550 500	Eau Claire	Prince Rupert CFPR 580 50
KPAB 1500 100	Lynchburg	WEAU 1050 1000	
Longview	WLVA 1200 100	Fond du Lac	Trail CJAT 910 1000 F
KFRO 1370 250 Lubbock	Newport News	KFIZ 1420 100	Vancouver
KFYO 1310 100	WGH 1310 100	Green Bay	CBR 1100 5000 F
Lufkin	Norfolk	WHBY 1200 100	CJOR 600 500
KRBA 1310 100	WTAR 780 1000 N Richmond	WTAQ 1330 1000 C	CKCD 1010 100
Midland KRLH 1420 100	WBBL 1210 100	Janesville	CKFC 1410 50
	WMBG 1350 500 R	WCLO 1200 100	CKMO 1410 100 CKWX 1010 100
Palestine KNET 1420 100	WRNL 880 500	LaCrosse	Victoria
Pampa	WRTD 1500 100 B WRVA 1110 5000 C	WKBH 1380 1000 C	CFCT 1450 500
KPDN 1310 100	Roanoke	Madison	
Paris	WDBJ 930 1000 C	WHA 940 5000 WIBA 1280 1000 N	MANITOBA
KPLT 1500 250	E1	Manitowoc	Brandon
Pecos ` KIUN 1420 100	WASHINGTON	WOMT 1210 100	CKX 1120 1000 F
Port Arthur	Aberdeen	Milwaukee	Flin Flon
KPAC 1260 500	KXRO 1310 100M	WEMP 1310 100	CFAR 1370 100

Winnipeg	Windsor	Ciego de Avila	DOMINICAN
CJRC 630 500 F CKY 910 15000 F	CKLW 1030 5000 F	CMJH 1360 50 CMJI 1130 150	REPUBLIC
	Wingham CKNX 1200 100	CMJO 1180 50	Trujillo
NEW BRUNSWICK		Cienfuegos	HIT 1050 50 HIX 800 800
Fredericton	PRINCE EDWARD	CMHJ 1160 175	HI7P 1300 25
CFNB 550 500 F	ISLAND	CMHM 1450 100 CMHX 760 200	
Moncton	Charlottetown	Cruces	EL SALVADOR
CKCW 1370 100 F St. John	CFCY 630 1000 F	CMHK 1330 250	San Salvador
CHSJ 1120 500 F	CHCK 1310 50	Guantanamo	YSS 640 500
N. W. MDD D IMOD V	Summerside CHGS 1450 50 F	CMKS 960	GUATEMALA
N. W. TERRITORY		Havana	Guatemala City
Aklavik	QUEBEC.	CMBC 950 10000 CMBD 1260 500	TGW 1520 1000 TG1 1305
CJCU 1210 50	Chicoutimi	CMBF 770 10000	1303
NOVA SCOTIA	CRCS 1120 100 F	CMBL 750 2500	HONDURAS
	Hull	CMBQ 680 5000 CMBS 1170 150	Tegucigalpa
Glace Bay	CKCH 1210 100 F	CMBX 1070 500	HRN 1250 50
VAS 685 2000 Halifax	Montreal CBF 910 50000 N	CMBY 970 150	MEXICO
CHNS 930 1000 F	CBM 1050 5000 F	CMBZ 1000 500 CMC 1260 150	AGUASCALIENTES
Sydney	CFCF 600 500 B	CMCA 1350 450	
CJCB 1240 1000 F Wolfville	CHLP 1120 100 F CKAC 730 5000 C	CMCB 1230 150	Aguascalientes XEBI 1000 25
CKIC 1010 50	New Carlisle	CMCD 630 250 CMCF 810 600	
Yarmouth	CHNC 960 1000 F	CMCG 680 1000	BAJA CALIFORNIA
CJLS 1310 100	Quebec CHRC 580 100	CMCJ 1110 500 CMCK 1030	Mexicali
ONTARIO	CKCV 1310 100 F	CMCL 730 10000	XEAA 750 200
	CRCK 950 1000 F	CMCM 850	XEAO 660 250
Brantford CKPC 930 100 F	Rimouski	CMCO 1200 250 CMCO 1410 5000	Rosarito Beach
Chatham	CJBR 1030 1000 F Sherbrooke	CMCR 1380	XERB 730 100000
CFCO 630 100 F	CHLT 1210 100	CMCU 1290 500	Tijuana XEAC 980 1000
Cobalt CKMC 1210 50	Three Rivers	CMCW 1140 500 CMCX 1380 150	XEAU 1320
Fort William	CHLN 1420 100	CMCY 570 5000	XEBG 820 1000
CKPR 730 100 F	SASKATCHEWAN	CMK 720 3000	XEC 1150 100 XELO 580 10000
Hamilton	SASKATCHEWAN	CMOA 1440 150 CMOX 1320 200	XEMO 860 5000
CHML 1010 100 F CKOC 1120 500 F	Moose Jaw	CMO 600 25000	XEOK 760 2500
	CHAB 1200 100 F	CMW 880 1400	CHIHUAHUA
Kenora 1420 100	Prince Albert CKBI 1210 100 F	CMX 920 1000 630 10000	
Kingston	Regina	Holguin	Chihuahua XEBU 1200 50
CFRC 1510 100 F	CJRM 540 1000 F	CMFK 1460 250	XEFI 1440 250
London 100 F	CKCK 1010 1000 F	CMKO 1280	Juarez
CFPL 730 100 F	Saskatoon	Manzanillo CMKM 1120 200	XEFV 1210 100
North Bay CFCH 930 100 F	CFQC 840 1000 F Yorkton	Matanzas	XEF 1450 100 XEJ 1020 1000
CJKL 1310 100	CJGX 1390 100 F	CMGC 1400 150	XEP 1160 500
CKGB 1420 100		CMGF 1120 250	Parral XEAT 1210 250
Ottawa CBO 880 1000 F	COSTA RICA	CMGH 790 500	XEAT 1210 250
CBO 880 1000 F CKCO 1010 100 F	San Jose	Moron	COAHUILA
Owen Sound	TIEP 880 1000	CMJP 1430 75	Piedras Negras
1370 100 Prescott	TIPG 625 2000 TIX 650 1000	Pinar del Rio CMAB 1340 300	XEMU 580 250
CFLC 930 100	112 000 1000	Sagua la Grande	XEPN 730 100000
St. Catharines	CUBA	CMHA 1070 50	Sabinas XEBX 640 250
CKTB 1200 100 F	Caibarien	Sancti Spiritus	Saltillo
Sault Ste. Marie CJIC 1500 100	CMHD 1270 250	CMHB 1240 50	XEAS 1160 100
Stratford	Camaguey	Santa Clara	XELA 1240 50 Torreon
CJCS 1210 50	CMJA 1010 300 CMJC 1390 150	CMHI 1210 150	XETB 1310 125
Sudbury CKSO 780 1000 F	CMJE 1390 150 CMJE 1220 50	CMHW 820 100	Villa Acuna
Toronto	CMJF 1150 200	Santiago	XEDH 1340 200
CBL 840 50000 F CFRB 690 10000 C	CMJK 780 250 CMJL 1340 75	CMKC 1250 150 CMKD 1050 250	XERA 840 250000
CFRB 690 10000 C	CMJL 1340 75 CMJO 1080 200	CMKG 1160	D. F.
CKCL 580 100 F CRCY 960 100 F	CMJX 830 500	CMKR 1400 100	C 1 A
CKCL 580 100 F		CMKR 1400 100 CMKW 1350 CMKX 1190	Gral. Anaya XEDA 1220 200

Mexico City	Leon	SINALOA	VERACRUZ
XEAI 1250 500 XEAL 660 1000 XEB 1030 10000 XEBS 1340 200	XEFM 1160 20 XEKL 1240 500 JALISCO	Mazatlan XEBL 1220 50	Cordoba XEAG 1310 10 Jalapa XEXB 1270 250
XEBZ 810 100 XEDP 1080 500	Guadalajara XED 1160 2500	SONORA	XEXB 1270 250 XEXD 1340 350 Minatitlan
XEFO 940 5000 XEJP 1130 100 XEIW 870 500	XED	Cananea XEFO 1010 50	XEDW 1150 20 Veracruz
XEJW 870 500 XEK 890 100 XEL 1100 250	MICHOACAN	Hermosillo XEBH 930 500	XETF 1220 12 XEU 1010 250
XELZ 1370 100 XEMX 1280 100	Morelia	Nogales XEAF 990 750	YUCATAN Merida
XEN 780 1000 XENC 860 50 XEW 890 50000	XEI 1370 125	Obregon XEAP 1340 50	XEFC 550 100 XEME 1240 50 XEZ 630 500
XEXM 610 500 XEXS 1310 100	Monterrey XEFB 870 200	TAMAULIPAS	ZACATECAS
XEXX 1170 1000 XEYO 610 500 Tacuba	XEG 1230 250 XEH 720 250	Matamoros	Zacatecas XEAZ 1230 200
XEFA 1180 500 Texcoco	XET 600 5000 XEX 1310 125	XEAM 750 25 Nuevo Laredo	MIQUELON St. Pierre
XEXE 1270 17 DURANGO	PUEBLA	XEBK 1080 100 XEDF 810 100	FQN 609 250 NEWFOUNDLAND
Durango	Puebla XETH 1210 100	XEFE 980 250 XENT 910 150000	St. John's VOAC 1065 40
XEE 1210 50	SAN LUIS POTOSI	Reynosa XEAW 960 100000	VOAS 940 100 VOCM 1006 200 VOGY 840 400
GUANAJUATO Irapuato	San Luis Potosi XECZ 1370 100 XEXH 1250 250	Tampico XEFW 1310 300 XES '990 250	VOGY 840 400 VONF 1195 500 VOWR 681 500
XEBO 1310 25	AEAH 1250 250	ALG 770 200	

	FNB 550 500 redericton, N. B.	CHSJ 1120 50 St. John, N. B.
CBL 840 50000	FPL 730 100 ondon, Ont.	CHWK 780 10 Chilliwack, B. C.
CBM 1050 5000	FPR 580 50	CJAT 910 100 Trail, B. C.
CBO 880 1000	FQC 840 1000 askatoon, Sask.	CJBR 1030 100 Rimouski, P. Q.
CBR 1100 5000	FRB 690 10000	CJCA 730 100 Edmonton, Alta.
CEAC 930 1000	FRC 1510 100	CJCB 1240 100
CFAR 1370 100	Kingston, Ont. CFRN 960 100	Sydney, N. S. CJCJ 690 10
Flin Flon, Man.	Edmonton, Alta.	Calgary, Alta.
Montreal, Que.	Moose Jaw, Sask.	Stratford, Ont. CJCU 1210
North Bay, Ont.	Charlottetown, P.E.I.	Aklavik, N. W. T. CJGX 1390 1
Calgary, Alta.	Summerside, P.E.I.	Yorkton, Sask.
Chatham, Ont.	CHLN 1420 100 Three Rivers, P. Q.	S. Ste. Marie, Ont.
CFCT 1450 500	CHLP 1120 100 Montreal, Que.	North Bay, Ont.
CECY 630 1000	CHLT 1210 100 Sherbrooke, P. Q.	CJLS 1310 1 Yarmouth, N. S.
CEGP 1200 100	CHML 1010 100 Hamilton, Ont.	CJOC 950 1 Lethbridge, Alta.
CFJC 880 1000	CHNC 960 1000 New Carlisie, Que.	CJOR 600 5 Vancouver, B. C.
CFLC 930 100	CHNS 930 1000 Hallfax, N. S.	CJRC 630 5 Winnipeg, Man.
Prescott. Ont.	CHRC 580 100	CJRM 540 10 Regina, Sask.

	CKAC 730 5000		
	Montreal, Que.	CMBY 970 150 Havana, Cuba	CMJH 1360 50
	CKBI 1210 100	CMBZ 1000 500	Clego de Avila, Cuba CMJI 1130 150
	Prince Albert, Sask.	Havana, Cuba CMC 1260 150	Ciego de Avila, Cuba
	Vancouver, B. C.	Havana, Cuba	CMJK 780 250 Camaguey, Cuba
L	CKCH 1210 100 Hull, Que.	CMCA 1350 450 Havana, Cuba	CMJO 1180 50
	CKCK 1010 1000	CMCB 1230 150	Clego de Avila, Cuba CMJP 1430 75
<u> </u>	Regina, Sask. CKCL 580 100	Havana, Cuba	Camaguey, Cuba
	Toronto, Ont.	CMCD 630 250 Havana, Cuba	CMJQ 1080 200 Camaguey, Cuba
	CKCO 1010 100 Ottawa, Ont.	CMCF 810 600	CMJW 1340 300
	CKCR 1510 100	Havana, Cuba CMCG 680 1000	Camaguey, Cuba
	Waterloo, Ont.	Havana, Cuba	CMJX 830 500 Camaguey, Cuba
	CKCV 1310 100 Quebec, Que.	CMCJ 1110 500 Havana, Cuba	CMK 720 3000
	CKCW 1370 100	CMCK 1030 5000	Havana, Cuba CMKC 1250 150
 	Moneton, N. B.	Havana, Cuba	Santiago, Cuba
	Vancouver, B. C.	CMCL 730 10000 Havana, Cuba	CMKD 1050 250 Santiago, Cuba
	CKGB 1420 100 North Bay, Ont.	CMCM 850	CMKF 1460 250
	CKIC 1010 50	Havana, Cuba	Holguin, Cuba CMKG 1160
 	Wolfville, N. S. CKLW 1030 5000	Havana, Cuba	Santiago, Cuba
	Windsor, Ont.	CMCQ 1410 5000 Havana, Cuba	CMKL 990 Bayamo, Cuba
	CKMC 1210 50 Cobalt, Ont.	CMCR 1380	CMKM 1120 200
	CKMO 1410 100	Havana, Cuba CMCU 1290 500	Manzanillo, Cuba CMKO 1280
	Vancouver, B. C.	Havana, Cuba	Holguin, Cuba
	CKNX 1200 100 Wingham, Ont.	CMCW 1140 500 Havana, Cuba	CMKR 1400 100 Santiago, Cuba
1	CKOC 1120 500 Hamilton, Ont.	CMCX 1380 150	CMKS 960
	CKOV 630 100	Havana, Cuba CMCY 570 5000	Guantanamo, Cuba CMKW 1350
	Kelowna, B. C.	Havana, Cuba	Santiago, Cuba
L	CKPC 930 100 Brantford, Ont.	CMGC 1400 150 Matanzas, Cuba	Santiago, Cuba
	CKPR 730 100	CMGE 1370 150	CMOA 1440 150
	Fort William, Ont.	Cardenas, Cuba CMGF 1120 250	Havana, Cuba CMOX 1320 200
ļ	Sudbury, Ont.	Matanzas, Cuba	Havana, Cuba
	St. Catharines, Ont.	CMGH 790 500 Matanzas, Cuba	CMQ 600 25000 Havana, Cuba
[CKUA 580 500	CMHA 1070 50	CMW 880 1400
<u> </u>	Edmonton, Alta.	Sagua la Grande, Cuba CMHB 1240 50	Havana, Cuba CMX 920 1000
	Vancouver, B. C.	Sancti Spiritus, Cuba	Havana, Cuba
	CKX 1120 1000 Brandon, Man.	CMHD 1270 250 Calbarien, Cuba	Quebec, Que.
	CKY 910 15000	CMHI 1210 150	CRCS 1120 100
 	Winnipeg, Man. CMAB 1340 300	Santa Ciara, Cuba CMHJ 1160 175	Chicoutimi, Que.
<u> </u>	Pinar del Rio, Cuba	Cienfuegos, Cuba	Toronto, Ont.
l	CMBC 950 10000 Havana, Cuba	CMHK 1330 250 Cruces, Cuba	FQN 609 250 St. Pierre, Miquelon
	CMBD 1260 500	CMHM 1450 190	HIT 1050 50
	Havana, Cuba CMBF 770 10000	Cienfuegos, Cuba CMHW 820 100	Trujillo, D. R. HIX 800 800
	Havana, Cuba	Santa Clara, Cuba	HIX 800 800 Trujillo, D. R.
	CMBL 750 2500 Havana, Cuba	CMHX 760 200 Clenfuegos, Cuba	HI7P 1300 25 Trujiilo, D. R.
	CMBQ 680 5000	CMJA 1010 300	HRN 1250 50
	Havana, Cuba CMBS 1170 150	Camaguey, Cuba	Tegucigalpa, Honduras
	Havana, Cuba	Camaguey, Cuba	San Antonio, Texas
	CMBX 1070 500 Havana, Cuba	CMJE 1220 50 Camaguey, Cuba	KABR 1420 100
		CMJF 1150 200	Aberdeen, S. Dak. KADA 1200 100
		Camaguey, Cuba	Ada, Okla,

MALE 1300 1000	500	KFSG 1120 Los Angeles, Calif.	100	KERN 1370 Bakersfield, Calif.	100	KALB 1210 Alexandria, La.	
MAND 1310 100 MEX 1318 500 Corsciena, Texas MARS 1210 More	500	KFUO 550		KEUB 1420	1000	KALE 1300	
Corstean, Texas	1000		5000		100	· ·	
Wichita, Kans				Portland, Ore.		Corsicana, Texas	
MARK \$90 \$00	100		10000		100		
NARM 1310 10	1000		1000		500	•	
Fresno, Calif. St. Cloud, Minn. Nampa, Idaho	100				100		
Eik City, Okia. KAST 1370 100 Astoria, Ore. KAST 1370 100 Astoria, Ore. KAST 1370 100 Astoria, Ore. KATE 1420 250 Abliene, Kans. KERK 1430 5000 Abliene, Kans. KERK 1430 (Akiahoma City, Okiahoma City, Okiah	100		100		100		
MAST 1370 100	100				100		
Astoria, Ore. KATE 1220 259 Albient Lea, Minn. KAWM 1500 100 Gallup, N. Mex. KBIX 1500 100 Muskogee, Okla. KBPS 1420 100 Portland, Ore. KBST 1500 100 Big Spring, Texas KBTM 1200 100 Jonesboro, Ark. KCMC 1420 100 KCMC 1310 KFFH 1300 1000 Kansas City, Kans. KCMC 1420 100 Texarkana, Texas KCMC 1420 100 KCRO 1310 100 KAnsas City, Mo. KCRO 1300 KFIZ 1420 100 Jenome, Ariz. KCRI 1310 100 KAnsas City, Mo. KCRO 1300 KFIZ 1420 100 KGC 1120 Deorah, lowa KGC 1120 Marshalitown, Jowa KGC 1120 Mandan, N. D. KGCI 1200 Marshalitown, Jowa KGCX 1450 Wolf Point, Mont. KDB 1500 100 Santa Barbara, Callf. KDBN 1440 500 Casper, Wyo. KDAL 1500 100 Devils Lake, N. D. KFIR 1310 100 KFIR 1310 100 KGCX 1450 Wolf Point, Mont. KDDR 1210 100 Devils Lake, N. D. KFIR 1310 100 KFIR 1310 100 Devils Lake, N. D. KFIR 1310 100 KFIR 1310 100 Devils Lake, N. D. KFIR 1310 100 Lewistown, Mont. KDNT 1420 100 Devils Lake, N. D. KFOR 1210 100 Lewistown, Mont. KDNT 1420 100 Denton, Texas KDON 1210 100 KGCFI 1300 KGCFI 1300 KGCFI 1300 KGCFI 1300 Cosaper, Wyo. KFOR 1210 100 KGCFI 1300 KGCFI 130	2010. 100			_	100		<u> </u>
Albert Lea, Minn. Sacramento, Calif. Oktahoma City, Ok Galiup, N. Mex. Beaumont, Texas Lubhock, Texas RFPY 780 1000 RFPS 1420 100 Eprokinss, S. D. RFEL 920 500 Eprokinss, S. D. REPUBLIANS Eprokinss, S. D. Eprok	alif.			→		Astoria, Ore.	
MAWM 1500	100 Okla		1				
MBIX 1500 100	100	KFYO 1310	500	KFDM 560		KAWM 1500	
Muskogee, Okla. Brookings, S. D. Hismarck, N. D.	1000			_	100		
Portland, Ore.	1000		1000				
MBST 1500 100	5000		500		100		-
MBTM 1200 100	100	•	2500	_	100	· ·	-
Joneshoro, Ark. Boone, Iowa San Diego, Calif.	1000				100		
RCKN 1310	1000		100		100		
NCMC 1420	500		1000	1		KCKN 1310	
Texarkana, Texas	1 500		50000	_			
Kansas City, Mo. Spokane, Wash. Decorah, Iowa KCRC 1360 250 Enid, Okia. Fond du Lac, Wis. Fond du Lac, Wis. KGCI 1200 Coeur d'Alene, Idat KGCJ 1310 Marshailtown, Iowa Mardan, N. D. KGCX 1450 Marshailtown, Iowa Mardan, N. D. KGCX 1450 Montan, N. D. KGCX 1450 Wolf Point, Mont. KDB 1500 100 KFJI 1210 100 KGCX 1450 Wolf Point, Mont. KDB 1500 KFJI 1370 100 KGDM 1100 KGDM 1200 Casper, Wyo. Fort Worth, Texas KGDM 1200 Casper, Wyo. KFKA 880 500 KGDM 1340 Huron, S. D. KGDM 1200 Lawrence, Kans. Steekton, Calif. KGDY 1340 Huron, S. D. KGEK 1220 Steekton, Calif. KGDY 1340 Long Beach, Calif. KGDX 1250 1000 KGER 1360 Long Beach, Calif. KGDX 1250 1000 KGER 1360 KGER 1360 Chong Beach, Calif. KGPI 1200 KGFI 1200 KGFI 1200 KGFI 1310 KGFI 1310 KGFI 1300 KGFI 1300 KGFI 1300 KGFI 1300 KGFI 1300 KGFI 1300 KGFI 1200 KGFI 1270			I	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
RCRC 1360 250 Enid, Okla. Fond du Lac, Wis. Coeur d'Alene, Idah KCRJ 1310 100 KFJB 1200 100 Marshalitown, Iowa Mandan, N. D. Mandan, N.	100		100		I		
RCRJ 1310 100	100		100	→		4	
Jerome, Ariz. Marshalltown, Iowa Mandan, N. D.				-	100	4	
Duluth, Minn. Kiamath Falls, Ore. Wolf Point, Mont. KDB 1500 100 KFJM 1410 500 Fergus Falls, Minn. KDFN 1440 500 KFJZ 1370 100 KGDM 1100 Stockton, Calif. KDKA 980 50000 Fort Worth, Texas KGDY 1340 Huron, S. D. KGDK 1200 Huron, S. D. KGDK 1200 Huron, S. D. KGNC 1200 100 KFNF 890 500 KGER 1360 KGDN 1210 Lawrence, Kans. KDNT 1420 100 KFNF 890 500 KGER 1360 KGDN 1210 Long Beach, Calif. KGDN 1210 Long Beach, Calif. KGDTH 1340 500 Dubuque, Iowa KDYL 1290 1000 KFPW 1210 100 KGFJ 1200 KGFJ 1500 Balt Lake City, Utah KECA 1430 1000 KFPY 890 1000 KGFL 1370 KGFL 137	250				100		
KDB 1500 100 Santa Barbara, Calif. Grand Forks. N. D. KGDE 1200 Fergus Falls, Minn.	1000				100	KDAL 1500	7
Santa Barbara, Calif. Grand Forks. N. D. Fergus Falis, Minn.	100			_	100		
Casper, Wyo.	n.				Calif.	Santa Barbara, Ca	
KDKA 980 50000 RFKA 880 500 RGDY 1340 Huron, S. D.	1000				500		
KDLR 1210 100 Lawrence, Kans. Sterling, Colo. Sterling, Co	250			—	50000	4	-
Devils Lake, N. D.		1	1000	_	100		
KDNC 1200 100 KFNF 890 500 Lewistown, Mont. Shenandoah, Iowa Long Beach, Calif.	100						
MENT 1420	1000	KGER 1360					
Denton, Texas	100	•		⊣			-
Monterey, Calif. Long Beach, Calif. Shawnee, Okla		Kalispell, Mont.		Lincoln, Neb.		Denton, Texas	
MDTH 1340 500 Dubuque, Iowa Dublin, Texas Brownsville, Tex.	100				100		
KDYL 1290 1000 KFPW 1210 100 Los Angeles, Calif. KECA 1430 1000 KFPY 890 1000 KGFL 1370 Roswell, N. M. KEEN 1370 100 KFQD 780 250 KGFW 1310 KGFW 1	100	KGFI 1500			500	KDTH 1340	
Salt Lake City, Utah Fort Smith, Ark. Los Angeles, Calif.	100	4	100		1000		
Los Angeles, Calif. Spokane, Wash. Roswell, N. M.	if.	Los Angeles, Calif					
KEEN 1370 100 KFQD 780 250 KGFW 1310	100		1000				
Seattle, Wash. KEHE 780 1000 Los Angeles, Calif. Anchorage, Alaska Kearney, Neb. KGFX 630 Pierre, S. D.	100	KGFW 1310	250	_			-
Los Angeles, Calif. San Francisco, Calif. Pierre, S. D.	200			Anchorage, Alask		Seattle, Wash.	
	200						
	100	KGGC 1420	250	KFRO 1370	500	KELA 1440	1
Centralia, Wash. KELD 1370 100 Longview, Texas San Francisco, Ca	alif. 1000	1					
El Dorado, Ark. Columbia, Mo. Coffeyville, Kans.	١.	Coffeyville, Kans.		Columbia, Mo.		El Dorado, Ark.	
KELO 1200 100 KFSD 600 1000 KGGM 1230 Sloux Falls, S. Dak. San Diego, Calif. Albuquerque, N. M.	1000 M.						
GIUUA FAIIS, S. Dan.		1		Dan Diego, Calif.	· un·	Sioux Falls, S. Da	1
		1	L				

	-				
	KGHF 1320 500 Pueblo, Colo.		KIUL 1210 100 Garden City, Kans.		KOCA 1210 100
	KGHI 1200 100	-	KIUN 1420 100		Kligore, Texas KOH 1380 500
	Little Rock, Ark.		Pecos, Texas	L	Reno, Nev.
	KGHL 780 1000 Billings, Mont.		KIUP 1370 100 Durango, Colo.		KOIL 1260 1000
	KGIR 1340 1000		KJBS 1070 500		Omaha, Neb. KOIN 940 1000
<u> </u>	Butte, Mont. KGIW 1420 100		San Francisco, Calif.		Portland, Ore.
	KGIW 1420 100 Alamosa, Colo.		KJR 970 5000 Seattle, Wash.		KOKO 1370 100 La Junta, Colo.
	KGKB 1500 100		KLAH 1210 100	_	KOL 1270 1000
	Tyler, Texas KGKL 1370 100		Carlsbad, N. Mex.	 	Seattle, Wash. KOMA 1480 5000
	San Angelo, Texas		La Grande, Ore.		KOMA 1480 5000 Oklahoma City, Okla.
	KGKO 570 250 Wichita Falls, Texas		KLCN 1290 100		KOMO 920 1000
	KGKY 1500 100		Blytheville, Ark. KLO 1400 500		Seattle, Wash. KONO 1370 100
	Scottsbluff, Neb.		Ogden, Utah		San Antonio, Texas
	Mason City, Iowa		KLPM 1240 250 Minot, N. D.		KOOS 1200 100 Marshfield, Ore.
	KGMB 1320 1000		KLRA 1390 1000		KORE 1420 100
· -	Honolulu, T. H. KGNC 1410 1000		Little Rock, Ark.	-	Eugene, Ore.
	Amarillo, Texas		KLS 1280 250 Oakland, Calif.		KOTN 1500 100 Pine Bluff, Ark.
	KGNF 1430 1000		KLUF 1370 100		KOVC 1500 100
	North Platte, Neb.	-	Galveston, Texas	— —	Valley City, N. Dak, KOY 1390 1000
	Dodge City, Kans.		Oakland, Calif.		KOY 1390 1000 Phoenix, Ariz.
	KGO 790 7500 San Francisco, Calif.		KLZ 560 1000 Denver, Colo.	'	KPAB 1500 100
	KGU 750 2500		KMA 930 1000		Laredo, Texas KPAC 1260 500
	Honolulu, T. H. KGVL 1200 100	ļ	Shenandoah, Iowa	<u> </u>	Port Arthur, Texas
	KGVL 1200 100 Greenville, Texas		San Antonio, Texas		KPDN 1310 100 Pampa, Texas
	KGVO 1260 1000		KMBC 950 1000		KPFA 1210 100
	Missoula, Mont. KGW 620 1000	 	Kansas City, Mo. KMED 1410 250		Helena, Mont. KPLC 1500 100
	Portland, Ore.		Medford, Ore.		Lake Charles, La.
	KGY 1210 100 Olympia, Wash,		KMJ 580 1000 Fresno, Calif.		KPLT 1500 100 Paris, Texas
	KHBC 1400 250		KMLB 1200 100		KPMC 1550 1000
	Hilo, T. H. KHBG 1210 100	\vdash	Monroe, La.	-	Bakersfield, Calif.
	Okniulgee, Okla.		KMMJ 740 1000 Clay Center, Neb.		KPO 680 50000 San Francisco, Calif.
l	KHJ 900 1000		KMO 1330 1000		KPOF 880 1000
-	Los Angeles, Calif. KHQ 590 1000	<u> </u>	Tacoma, Wash. KMOX 1090 50000		Denver, Colo. KPPC 1210 100
ļ <u>.</u>	Spokane, Wash.		St. Louis, Mo.		Pasadena, Calif.
	KHSL 1260 250 Chico, Calif.		KMPC 710 500 Beverly Hills, Calif.	1 1	KPQ 1500 100 Wenatchee, Wash.
	KHUB 1310 250		KMTR 570 1000		KPRC 920 1000
	Watsonville, Callf. KICA 1370 100	$\vdash \vdash \vdash$	Los Angeles, Calif. KNEL 1500 250	<u> </u>	Houston, Texas KQV 1380 500
	Clovis, N. M.		KNEL 1500 250 Brady, Texas		Pittsburgh, Pa.
	KID 1320 500		KNET 1420 100		KQW 1010 1000
	Idaho Falls, Idaho KIDO 1350 1000	 	Palestine, Texas KNOW 1500 100		San Jose, Calif. KRBA 1310 100
	Boise, Idaho		Austin, Texas		Lufkin, Texas
	KIDW 1420 100 Lamar, Colo.		KNX 1050 50000 Los Angeles, Calif.		KRBC 1420 100 Abilene, Texas
	KIEM 1450 500		KOA 830 50000		KRE 1370 100
	Eureka, Callf. KIEV 850 250	\vdash	Denver, Colo. KOAC 550 1000	\vdash	Berkeley, Calif. KRGV 1260 1000
	Glendale, Calif.		Corvallis, Ore.		Weslaco, Texas
	KINY 1310 100		KOAM 790 1000		KRIC 1420 100 Beaumont, Texas
-	Juneau, Alaska KIRO 710 1000	 	Pittsburg, Kans. KOB 1180 10000		KRIS 1330 500
	Seattle, Wash.		Albuquerque, N. M.		Corpus Christi, Tex.
	KIT 1250 250 Yakima, Wash.		KOBH 1370 100 Rapid City, S. Dak.		KRKD 1120 500 Los Angeles, Calif.
	,				

_	KRKO 1370 50		KTHS 1060 10000	KWK 1350 1000	o
	Everett, Wash.		Hot Springs, Ark,	St. Louis, Mo.	
	KRLC 1390 250		KTKC 1190 250	KWKH 1100 10000	J
 	Lewiston, Idaho KRLD 1040 10000		Visalia, Calif. KTMS 1220 500	Shreveport, La. KWLC 1270 100	0
	Dallas, Texas		Santa Barbara, Calif.	Decorah, Iowa	
	KRLH 1420 100		KTOK 1370 100	KWLK 780 250	D
	Midland, Texas KRMC 1370 100		Oklahoma City, Okla. KTRB 740 250	Longview, Wash.	n
	Jamestown, N. Dak.		Modesto, Calif.	Winona, Minn.	
	KRMD 1310 100		KTRH 1290 1000	KWOC 1310 100	0
	Shreveport, La. KRNR 1500 100		Houston, Texas	Poplar Bluff, Mo. KWOS 1310 100	n
1	KRNR 1500 100 Roseburg, Ore.		Sioux City, Iowa	Jefferson City, Mo.	•
	KRNT 1320 1000		KTSA 550 1000	KWSC 1220 1000	0
-	Des Moines, Iowa		San Antonio, Texas KTSM 1310 100	Pullman, Wash. KWTN 1210 10	0
	Rochester, Minn.	}	El Paso, Texas	Watertown, S. Dak.	•
	KROD 1500 100		KTUL 1400 500	KWTO 560 500	0
	El Paso, Texas KROW 930 1000		Tulsa, Okla. KTW 1220 1000	Springfield, Mo.	0
	Oakland, Calif.	ļ	Seattle, Wash.	Sheridan, Wyo.	•
	KROY 1210 100		KUJ 1370 100	KXA 760 25	0
	Sacramento, Calif KRQA 1310 100	ļ	Walla Walla, Wash.	Seattle, Wash.	
	Santa Fe, N. Mex.	1	Yuma, Ariz.	KXBY 1530 100 Kansas City, Mo.	U
	KRRV 1310 250		KUOA 1260 5000	KXL 1420 10	0
	Sherman, Texas KRSC 1120 250	<u> </u>	Siloam Springs, Ark.	Portland, Ore. KXO 1500 10	ın.
	Seattle, Wash.	· .	Vermillion, S. Dak.	El Centro, Calif.	
	KSAC 580 500		KUTA 1500 100	KXOK 1250 100	10
	Manhattan, Kans.		Salt Lake City, Utah	St. I.ouls, Mo. KXRO 1310 10	10
-	Salina, Kans.	l	Redding, Calif.	Aberdeen, Wash.	
	KSCJ 1330 1000		KVEC 1200 250	KXYZ 1440 100	10
L	Sioux City, Iowa KSD 550 1000		San Luis Obispo, Cal. KVGB 1370 100	Houston, Texas	00
	KSD 550 1000 St. Louis, Mo.		Great Bend, Kans.	San Francisco, Calif.	
	KSEI 900 250		KVI 570 1000	1	50
	Pocatello, Idaho KSFO 560 1000		Tacoma, Wash.	Merced, Calif. KYSM 1500 10	an
	San Francisco, Calif.		Logan, Utah	Mankato, Minn.	~
	KSL 1130 50000		KVOA 1260 1000	KYW 1020 1000	00
	Salt Lake City, Utah KSLM 1370 100		Tucson, Ariz.	Philadelphia, Pa. TGW 1520 100	00
	Salem, Ore.		Denver, Colo.	Guatemala City, Guat.	
	KSO 1430 500		KVOE 1500 100	TG1 1305	
	Des Moines, Iowa KSOO 1110 2500	-	Santa Ana, Calif.	Guatemala City, Guat.	
	KSOO 1110 2500 Sioux Falls, S. Dak.	1	Lafayette, La.	San Jose, Costa Rica	
	KSRO 1310 · 250		KVOO 1140 25000	TIPG 625 200 San Jose, Costa Rica	00
	Santa Rosa, Calif. KSTP 1460 10000	-	Tulsa, Okia. KVOR 1270 1000	San Jose, Costa Rica TIX 650 100	00
	St. Paul, Minn.		Colorado Springs, Colo.	San Jose, Costa Rica	
	KSUB 1310 100		KVOS 1200 100	VAS 685 200	00
<u> </u>	Cedar City, Utah KSUN 1200 100	-	Bellingham, Wash.	Glace Bay, N. S. VOAC 1065	40
	KSUN 1200 100 Lowell, Ariz.		Moorhead, Minn.	St. John's, Nfld.	
	KTAR 620 1000		KVRS 1370 100	VOAS 940 1 St. John's, Nfld.	00
	Phoenix, Ariz.	-	Rock Springs, Wyo.		00
	Fort Worth, Texas		Ardmore, Okla.	St. John's, Nfld.	
	KTBC 1120 1000		KWBG 1420 100	vogy 840 4 St. John's, Nfid.	00
	Austin, Texas KTBS 1450 1000	<u> </u>	Hutchinson, Kans.		00
	Shreveport, La.	L	Hobbs, N. Mex.	St. John's, Nfld.	
	KTEM 1370 250		KWG 1200 100	VOWR 681 5 St. John's, Nfld.	00
	Temple, Texas	 	Stockton, Calif.		00
	Twin Falls, Idaho		Portland, Ore.	Boston, Mass.	
	_		_		

ľ						
	WAAF 920 1000 Chicago, Ill.	·	WBBZ 1200 100 Ponca City, Okla.		WCBD 1080 Chicago, Ill.	5000
Ī	WAAT 940 500 Jersey City, N. J.)	WBCM 1410 500		WCBM 1370	100
	WAAW 660 500	,	Bay City, Mich. WBEN 900 1000		Baltimore, Md. WCBS 1420	100
	Omaha, Neb. WABC 860 50000	,	Buffalo, N. Y. WBEO 1310 100		Springfield, Ill.	
	New York, N. Y. WABI 1200 100	,	Marquette, Mich.		WCCO 810 Minneapolis, Minn.	50000
	Bangor, Maine		WBHP 1200 100 Huntsville, Ala.		WCFL 970 Chicago, Ill.	5000
	WABY 1370 100 Albany, N. Y.	'	WBIG 1440 1000 Greensboro, N. C.		WCHS 580 Charleston, W. Va	500
	WACO 1420 100 Waco, Texas		WBIL 1100 5000		WCHV 1420	100
	WADC 1320 1000	,	New York, N. Y. WBLK 1370 100		Charlottesville, Va. WCKY 1490	.10000
	Akron, Ohio WAGA 1450 500	,	Clarksburg, W. Va. WBLY 1210 100	-	Covington, Ky.	
	Atlanta, Ga.	<u> </u>	Lima, Ohio		Cleveland, Ohio	500
	Dothan, Ala.		WBNO 1200 100 New Orleans, La.		WCLO 1200 Janesville, Wis.	100
_	WAGM 1420 100 Presque Isle, Me.	'	WBNS 1430 500 Columbus, Ohio		WCLS 1310	100
	WAIM 1200 100		WBNX 1350 1000		Joliet, III. WCMI 1310	100
	Anderson, S. C. WAIR 1250 250		New York, N. Y WBNY 1370 100	<u> </u>	Ashland, Ky. WCNW 1500	100
	Winston-Salem, N. C. WALA 1380 500		Buffalo, N. Y. WBOQ 860 50000		Brooklyn, N. Y.	
	Mobile, Ala.		WBOQ 860 50000 New York, N. Y.		WCOA 1340 Pensacola, Fla.	500
	WALR 1210 100 Zanesville, Ohio		WBOW 1310 100 Terre Haute, Ind.		WCOC 880 Meridian, Miss.	500
	WAML 1310 100 Laurel, Miss.		WBRB 1210 100 Red Bank, N. J.		WCOL 1210	100
	WAPI 1140 5000		WBRC 930 1000		Columbus, Ohio WCOP 1120	500
	Birmingham, Ala. WAPO 1420 100		Birmingham, Ala. WBRE 1310 100		Boston, Mass. WCPO 1200	, 100
	Chattanooga, Tenn. WARD 1400 500	-	Wilkes-Barre, Pa.	<u> </u>	Cincinnati, Ohio	
	Brooklyn, N. Y.		WBRK 1310 100 Pittsfield, Mass.		WCRW 1210 Chicago, Ill.	100
	WASH 1270 500 Grand Rapids, Mich.		WBRY 1530 1000 Waterbury, Conn.		WCSC 1360 Charleston, S. C.	500
	WATL 1370 100 Atlanta, Ga.		WBT 1080 50000 Charlotte, N. C.		WCSH 940	1000
1	WATR 1190 100		WBTM 1370 100		Portland, Me. WDAE 1220	1000
	Waterbury, Conn. WAVE 940 1000		Danville, Va. WBZ 990 50000		Tampa, Fla. WDAF 610	1000
	Louisville, Ky. WAWZ 1350 500		Boston, Mass. WBZA 990 1000		Kansas City, Mo.	
:	Zarephath, N. J.		Springfield, Mass.		WDAH 1310 El Paso, Texas	100
	WAYX 1200 100 Waycross, Ga.		WCAD 1220 500 Canton, N. Y.	1	WDAS 1370 Philadelphia, Pa.	100
	WAZL 1420 100 Hazleton, Pa.		WCAE 1220 1000 Plttsburgh, Pa.		WDAY 940	1000
1	WBAA 890 500		WCAL 1250 1000		Fargo, N. Dak. WDBJ 930	1000
	West Lafayette, Ind. WBAL 760 2500		Northfield, Minn. WCAM 1280 500		Roanoke, Va. WDBO 580	1000
	Baltimore, Md. WBAL 1060 10000		Camden, N. J. WCAO 600 500		Orlando, Fla.	
1	Baltimore, Md.		Baltimore, Md.		WDEL 1120 Wilmington, Del.	250
	WBAP 800 50000 Fort Worth, Texas		WCAP 1280 500 Asbury Park, N. J.		WDEV 550 Waterbury, Vt.	500
	WBAX 1210 100 Wilkes-Barre, Pa.		WCAT 1200 100 Rapid City, S. Dak.		WDGY 1180	1000
,	WBBC 1400 500		WCAU 1170 50000		Minneapolis, Minn. WDNC 1500	100
	Brooklyn, N. Y. WBBL 1210 100		Philadelphia, Pa. WCAX 1200 100	\vdash	Durham, N. C. WDOD 1280	1000
	Richmond, Va. WBBM 770 50000	— —	Burlington, Vt.		Chattanooga, Tenn	
	Chicago, Ill.		Carthage, Ill.		WDRC 1330 Hartford, Conn.	1000
	WBBR 1300 1000 Brooklyn, N. Y.		WCBA 1440 500 Allentown, Pa.		WDSM 1200 Superior, Wis.	100

	WDSU 1250 1000 New Orleans, La.		WFIL 560 1000 Philadelphia, Pa.		WHB 860 Kansas City, Mo.	1000
Ties and the second	WDWS 1370 100		WFLA 620 1000	<u> </u>	WHBB 1500	100
	Champaign, Ill. WDZ 1020 250		Tampa, Fla. WFMD 900 500		Selma, Ala. WHBC 1200	100
	Tuscola, Ill. WEAF 660 50000		Frederick, Md. WFOR 1370 100	 	Canton, Ohlo WHBF 1210	100
	New York, N. Y. WEAN 780 1000	<u> </u>	Hattlesburg, Miss. WFOY 1210 100		Rock Island, Ill. WHBI 1250	1000
_	Providence, R. I. WEAU 1050 1000	-	St. Augustine, Fla. WFTC 1200 100		Newark, N. J. WHBL 1300	250
	Eau Claire, Wis. WEBC 1290 1000		Kinston, N. C WGAL 1500 100		Sheboygan, Wis. WHBQ 1370	100
-	Duluth, Minn.		Lancaster, Pa.	ļ	Memphis, Tenn.	
	WEBQ 1210 100 Harrisburg, Ill.		WGAN 640 500 Portland, Me.		WHBU 1210 Anderson, Ind.	100
	WEBR 1310 100 Buffalo, N. Y.		WGAR 1450 500 Cleveland, Ohio		WHBY 1200 Green Bay, Wis.	100
	WEDC 1210 100 Chicago, Ill.		WGAU] 1310 100 Athens, Ga.		WHDF 1370 Calumet, Mich.	100
	WEED 1420 100 Rocky Mount, N. C.		WGBB 1210 100 Freeport, N. Y.		WHDH 830 Boston, Mass.	1000
	WEEI 590 1000 Boston, Mass.		WGBF 630 500 Evansville, Ind.		WHDL 1400 Olean, N. Y.	250
<u> </u>	WEEU 830 1000 Reading, Pa.		WGBI 880 500 Scranton, Pa.		WHEB 740 Portsmouth, N. H.	250
	WELI 900 500		WGCM 1210 100		WHEC 1430	500
	New Haven, Conn. WELL 1420 100		Gulfport, Miss. WGES 1360 500		Rochester, N. Y. WHEF 1500	100
	Battle Creek, Mich. WEMP 1310 100	-	Chicago, Ill. WGH 1310 100		Kosciusko, Miss. WHFC 1420	100
	Milwaukee. Wis. WENR 870 50000		Newport News, Va. WGIL 1500 250	<u> </u>	Cicero, III.	1000
	Chicago, Iil. WEOA. 1370 100		Galesburg, Ill. WGL 1370 100		Dayton, Ohio WHIP 1480	5000
	Evansville, Ind.		Fort Wayne, Ind. WGN 720 50000	<u> </u>	Hammond, Ind.	500
	WESG 850 1000 Elmira, N. Y.		Chicago, Ill.		Bluefield, W. Va.	
	WEST 1200 100 Easton, Pa.		WGNY 1210 100 Newburgh, N. Y.		WHJB 620 Greensburg, Pa.	250
	WEVD 1300 1000 New York, N. Y.		WGPC 1420 100 Albany, Ga.		WHK 1390 Cleveland, Ohio	1000
	WEW 760 1000 St. Louis, Mo.		WGR 550 1000 Buffalo, N. Y.		WHKC 640 Columbus, Ohio	500
	WEXL 1310 50 Royal Oak, Mich.		WGRC 1370 250 New Albany, Ind.		WHLB 1370 Virginia, Minn.	100
	WFAA 800 50000	,	WGRM 1210 100 Grenada, Miss.		WHN 1010 New York, N. Y.	1000
-	Dallas, Texas WFAB 1300 1000	<u> </u>	WGST 890 1000	-	WHO 1000	50000
ļ	New York, N. Y. WFAM 1200 100		Atlanta, Ga. WGTM 1310 100	-	Des Moines, Iowa WHOM 1450	250
	South Bend, Ind. WFAS 1210 100	ļ	Wilson, N. C. WGVA 1050 1000		Jersey City, N. J. WHP 1430	500
	White Plains, N. Y. WFBC 1300 1000	-	Indianapolis, Ind. WGY 790 50000		Harrisburg, Pa. WIBA 1280	1000
	Greenville, S. C. WFBG 1310 100	_	Schenectady, N. Y. WHA 940 5000		Madison, Wis.	100
	Altoona, Pa. WFBL 1360 1000		Madison, Wis.	ļ	Glenside, Pa. WIBM 1370	100
	Syracuse, N. Y.	ļ	Greenfield, Mass.		Jackson, Mich.	100
	WFBM 1230 1000 Indianapolis, Ind.	L	Saginaw, Mich.		Poynette, Wis.	1000
	WFBR 1270 500 Baltimore, Md.		WHAM 1150 50000 Rochester, N. Y.		WIBW 580 Topeka, Kans.	
	WFDF 1310 100 Flint, Mich.		WHAS 820 50000 Louisville, Ky.		WIBX 1200 Utica, N Y.	100
	WFEA 1340 500		WHAT 1310 100 Philadelphia, Pa.		WICA 940 Ashtabula, Ohio	250
	Manchester, N. H.		WHAZ 1300 1000 Troy, N. Y.			
100			1 1109, 111 11	\vdash	4	

	1 111100 000						_
	WICC 600 Bridgeport, Conn.	500	1	WKAQ 1240 1000 San Juan, P. R.		WMAS 1420 1 Springfield, Mass.	00
	WIL 1200	100		WKAR 850 1000		WMAZ 1180 10	00
-	St. Louis, Mo.	1000		East Lansing, Mich.		Macon, Ga. WMBC 1420 1	
	Urbana, Ill.		1	Miami Beach, Fla.		Detroit, Mich.	00
	WILM 1420 Wilmington, Del.	100		WKBB 1500 100		WMBD 1440 10	00
	WIND 560	1000	<u> </u>	East Dubuque, III. WKBH 1380 1000	<u> </u>	Peoria, Ill. WMBF 610 10	00
	Gary, Ind.	4000		LaCrosse, Wis.		Miami, Fla.	
	WINS 1180 New York, N. Y.	1000	1	WKBN 570 500 Youngstown, Ohio		WMBG 1350 5 Richmond, Va.	00
	WICD 610	1000		WKBO 1200 100			00
	Miami, Fla.	1000	<u> </u>	Harrisburg, Pa. WKBV 1500 100		Joplin, Mo. WMBI 1080 50	
	Philadelphia, Pa.			WKBV 1500 100 Richmond, Ind.		WMBI 1080 50 Chicago, Ill.	00
	WIRE 1400 Indianapolis, Ind.	1000		WKBW 1480 5000			00
	Wis 560	1000		Buffalo, N. Y. WKBZ 1500 100	<u> </u>	Auburn, N. Y. WMBQ 1500 1	00
	Columbia, S. C.	250		Muskegon, Mich.		Brooklyn, N. Y.	
	WISN 1120 Milwaukee, Wis.	250	1	WKEU 1500 100 Griffin, Ga.		WMBR 1370 1 Jacksonville, Fla.	.00
	WJAC 1310	100		WKOK 1210 100		WMBS 1420 2	50
	Johnstown, Pa.	1000	<u></u>	Sunbury, Pa. WKRC 550 1000	<u> </u>	Uniontown, Pa. WMC 780 10	00
	Norfolk, Neb.			Cincinnati, Ohio		Memphis, Tenn.	
	WJAR 890 Providence, R. I.	1000		WKY 900 1000 Oklahoma City, Okla.		WMCA 570 10 New York, N. Y.	00
	WJAS 1290	1000	<u> </u>	WKZO 590 1000			.00
<u> </u>	Pittsburgh, Pa.	1000	<u> </u>	Kalamazoo, Mich.		Boston, Mass.	
	WJAX 900 Jacksonville, Fla.	1000	İ	WLAC 1470 5000 Nashville, Tenn.		WMFD 1370 1 Wilmington, N. C.	.00
	WJBC 1200	100		WLAK 1310 100		WMFF 1310 1	.00
-	Bloomington, Iii.	100	<u> </u>	Lakeland, Fla. WLAP 1420 100	<u> </u>	Plattsburg, N. Y. WMFG 1210 1	.00
	Detroit, Mich.			Lexington, Ky.		Hibbing, Minn.	
1	WJBL 1200 Decatur, Ill.	100		WLAW 680 1000 Lawrence, Mass.		WMFJ 1420 1 Daytona Beach, Fla.	.00
	WJBO 1120	500		WLB 1250 1000		· ·	00
<u> </u>	Baton Rouge, La.	100	<u> </u>	Minneapolis, Minn. WLBC 1310 100		Decatur, Ala. WMFR 1200 1	
	New Orleans, La.	100		Muncle, Ind.		High Point, N. C.	.00
1	WJBY 1210 Gadsden, Ala.	100		WLBL 900 5000 Stevens Point, Wis.		WMIN 1370 1 St. Paul, Minn.	00
	WJDX 1270	1000		WLBZ 620 500		1	00
	Jackson, Miss. WJEJ 1210	50		Bangor, Me. WLEU 1420 100		Fairmont, W. Va.	
	WJEJ 1210 Hagerstown, Md,	30		WLEU 1420 100 Erie, Pa.		WMPC 1200 1 Lapeer, Mich.	.00
	WJIM 1210	100		WLLH 1370 100 Lawrence, Mass.			00
	Lansing, Mich	20000		WLLH 1370 100		Memphis, Tenn. WMSD 1420 1	.00
	Chicago, Ill.			Lowell, Mass.		Sheffield, Ala.	
	Ironwood, Mich.	100		WLMU 1210 100 Middlesboro, Ky.		WMT - 600 10 Cedar Rapids, Iowa	100
	WJNO 1200	100		WLNH 1310 100		WNAC 1230 10	00
<u> </u>	W. Palm Beach, Fla		<u> </u>	Laconia, N. H. WLS 870 50000	 	Boston, Mass.	000
	Detroit, Mich.			Chicago, Iil.		Norman, Okla.	
	WJRD 1200 Tuscaloosa, Ala.	250		WLTH 1400 500 Brooklyn, N. Y.		WNAX 570 10 Yankton, S. D.	100
	WJSV 1460	10000		WLVA 1200 100		WNBC 1380 2	250
	Washington, D. C. WJTN 1210	100	<u> </u>	Lynchburg, Va. WLW 700 500000		New Britain, Conn. WNBF 1500 1	100
	Jamestown, N. Y.			Cincinnati, Ohio		Binghamton, N. Y.	
	WJW 1210 Akron, Ohio	100		WMAL 630 250 Washington, D. C.		WNBH 1316 1 New Bedford, Mass.	100
	WJZ 760	50000		WMAQ 670 50000		WNBX 1260 5	00
	New York, N. Y.			Chicago, Ill.	<u> </u>	Springfield, Vt.	
]				
]						
L	J		L)	

				4000 F	 ,	WSFA 1410	500
	WNBZ 1290 100		WPTF 680 Raleigh, N. C.	1000		WSFA 1410 Montgomery, Ala.	300
 	Saranac Lake, N. Y. WNFL 1290 1000		WQAM 560	1000		WSGN 1310	100
	WNEL 1290 1000 San Juan, P. R.		Miami, Fla.			Birmingham, Ala.	
1	WNEW 1250 1000		WQAN 880	500		WSIX 1210	100
	New York, N. Y.		Scranton, Pa.			Nashville, Tenn.	
	WNLC 1500 100		WQBC 1360	1000		WSJS 1310 Winston-Salem, N.	_ 100
	New London, Conn.		Vicksburg, Miss. WQDM 1390	1000			50000
	WNNY 1420 100		St. Albans, Vt.	1000		Nashville, Tenn.	
 	Watertown, N. Y. WNOX 1010 1000		WQXR 1550	1000		WSMB 1320	1000
1	Knoxville, Tenn.		New York, N. Y.			New Orleans, La.	
-	WNYC 810 1000		WRAK 1370	100		WSMK 1380	200
	New York, N. Y.		Williamsport, Pa.			Dayton, Ohio WSNJ 1210	100
	WOAI 1190 50000		WRAW 1310	100		Brldgeton, N. J.	100
<u> </u>	San Antonio, Texas		Reading, Pa. WRAX 920	1000		WSOC 1210	100
1	WOC 1370 100		Philadelphia, Pa.	1000		Charlotte, N. C.	
-	Davenport, Iowa WOI 640 5000		WRBL 1200	100		WSPA 920	1000
	Ames, Iowa		Columbus, Ga.			Spartanburg, S. C.	
	WOKO 1430 500		WRC 950	1000		WSPD 1340	1000
	Albany, N. Y.		Washington, D. C	100		Toledo, Ohio WSPR 1140	500
	WOL 1310 1000		WRDO 1370 Augusta, Me.	100	1 1	Springfield, Mass.	300
	Washington, D. C.		WRDW 1500	100		WSUI 880	500
	WOLS 1200 100 Florence, S. C.		Augusta, Ga.			İowa City, Iowa	
	WOMI 1500 100		WREC 600	1000		WSUN 620	1000
	Owensboro, Ky.	L	Memphis, Tenn.			St. Petersburg, Fl	
	WOMT 1210 100		WREN 1220	1000		WSVA 550	500
	Manitowoc, Wis.	<u> </u>	Lawrence, Kans.	100	<u> </u>	Harrisonburg, Va. WSVS 1370	50
	WOOD 1270 500 Grand Rapids, Mich.	l	WRGA 1500 Rome, Ga:	100	1 1	Buffalo, N. Y.	•••
			WRJN 1370	100		WSYB 1500	100
	WOPI 1500 100 Bristol, Tenn.	ì	Racine, Wis.			Rutland, Vt.	
	WOR 710 50000		WRNL 880	500		WSYR 570 Syracuse, N. Y.	1000
	Newark, N. J.		Richmond, Va.			WTAD 900	1000
	WORC 1280 500		WROK 1410	500		Quincy, Ili.	1000
-	Worcester, Mass.		Rockford, Ill.	100		WTAG 580	1000
	WORK 1320 1000	1	WROL 1310 Knoxville, Tenn.	100	1	Worcester, Mass.	
	York, Pa. work 920 500		WRR 1280	500		WTAL 1310	100
1	Boston, Mass.		Dallas, Texas			Tallahassee, Fla.	
	WOSU 570 750		WRTD 1500	100		WTAM 1070 Cleveland, Ohio	50000
	Columbus, Ohio		Richmond, Va.			WTAQ 1330	1000
	WOV 1130 1000	1	WRUF 830	5000		Green Bay, Wis.	
	New York, N. Y.		Gainesville, Fia.	5000		WTAR 780	1000
1	WOW 590 1000 Omaha, Neb.		Richmond, Va.	0000	1	Norfolk, Va.	
	WOWO 1160 10000	—	WSAI 1330	1000		WTAW 1120	500
	Fort Wayne, Ind.	1	Cincinnati, Ohio			College Station. T	ex.
<u> </u>	WPAD 1420 100		WSAJ 1310	100		WTAX 1210 Springfield, Ill.	100
	Paducah, Ky.		Grove City, Pa.			WTBO 800	250
	WPAR 1420 100		WSAL 1200 Salisbury, Md.	250		Cumberland, Md.	
	Parkersburg, W. Va.	 	wsan 1440	500		WTCN 1250	1000
	WPAX 1210 100 Thomasville, Ga.		Allentown, Pa.			Minneapolis, Mini	
— —	WPAY 1370 100		WSAR 1450	1000		WTEL 1310	100
	Portsmouth, Ohio	i	Fall River, Mass.			Philadelphia, Pa.	100
 	WPEN 920 1000		WSAU 1370	100		WTHT 1200 Hartford, Conn.	100
	Philadelphia, Pa.		Wausau, Wis.	400		WTIC 1040	50000
	WPG 1100 5000	1	WSAY 1210	100		Hartford, Conn.	
T	Atlantic City, N. J.	 	Rochester, N. Y	1000		WTJS 1310	100
	Mayaguez, P. R.		Huntington, W.			Jackson, Tenn.	
-	WPRO 630 500		WSB 740	50000		WTMJ 620	1000
	Providence, R. I.		Atlanta, Ga.			Milwaukee, Wis.	100
	WPRP 1420 100		WSBC 1210	100	1	East St. Louis, Il	
	Ponce, P. R.		Chicago, Ill. WSBT 1360	500	 	1	
			South Bend, Ind		1		
			-			1	
	1		l		L	J	
<u> </u>							

	WTNJ 1280 500	XEBL 1220 50	
<u> </u>	Trenton, N. J.	Mazatlan, Sin.	XEL 1100 250 Mexico City, D. F.
	WTOC 1260 1000 Savannah, Ga.	XEBO 1310 25 Irapuato, Guan.	XELA 1240 50
	WTOL 1200 100	XEBP 1150 250	Saltillo, Coah. XELO 580 10000
	Toledo, Ohio WTRC 1310 100	Durango, Dgo. XEBS 1340 200	Tijuana, B. Cfa.
	Elkhart, Ind.	Mexico City, D. F.	XELZ 1370 100 Mexico City, D.F.
	WVFW 1400 500 Brooklyn, N. Y.	XEBU 1200 50 Chihuahua, Chih.	XEMO 860 5000
	WWAE 1200 100	XEBX 640 250	Tijuana, L. C. XEMU 580 250
	Hammond, Ind. WWJ 920 5000	Sabinas, Coah. XEBZ 810 100	Piedras Negras, Coah.
<u> </u>	Detroit, Mich.	Mexico City, D. F.	Mexico City, D. F.
	WWL 850 10000 New Orleans, La.	XEC 1150 100 Tijuana, L. C.	XEN 780 1000
	WWNC 570 1000	XECZ 1370 100	Mexico City, D. F. XENC 860 50
 -	Asheville, N. C. WWRL 1500 100	San Luis Potosi, S.L.P. XED 1160 2500	Mexico City, D. F.
	Woodside, N. Y.	Guadalajara, Jal.	XENT 910 150000 Nuevo Laredo, Tams.
	WWSW 1500 100 Pittsburgh, Pa.	XEDA 1220 200 Grai. Anaya, D. F.	XEOJ
	WWVA 1160 5000	XEDF 810 100	 XEOK 760 2500
	Wheeling, W. Va. WXYZ 1240 1000	Nuevo Laredo, Tams. XEDH 1340 200	Tijuana, L. C.
	Detroit, Mich.	Villa Acuna, Coah.	XEP 1160 500 Juarez, Chih.
	W3XDD 50000 Whippany, N. J.	XEDP 1080 500 Mexico City, D. F.	XEPN 730 100000
	W3XJ 1060 100	XEDW 1150 20	Piedras Negras, Coah. XERA 840 250000
	College Park, Md. W8XO 700 500000	Minatitian, Ver. XEE 1210 50	Villa Acuna, Coah.
	Cincinnati, Ohio	Durango, Dgo.	Rosarito Beach, B. Cfa.
	XEAA 750 200 Mexicali, B. C.	XEF 1450 100 Juarez, Chih.	XES 990 250
	XEAC 980 1000	XEFA 1180 500	Tampico, Tams.
	Tijuana, L. C. XEAF 990 750	Tacuba, D. F. XEFB 870 200	Monterrey, N. L.
	Nogales, Son.	XEFB 870 200 Monterrey, N. L.	XETB 1310 125 Torreon, Coah.
-	XEAG 1310 10 Cordoba, Ver.	XEFC 550 100 Merida, Yuc.	XETF 1220 12
	XEAI 1250 500	XEFE 980 250	Veracruz, Ver. XETH 1210 100
	Mexico City, D. F. XEAL 660 1000	Nuevo Laredo, Tams. XEFI 1440 250	Puebla, Pue.
	Mexico City, D. F.	Chihuahua, Chih.	XEU 1010 250 Veracruz, Ver.
.	XEAM 750 25 Matamoros, Tams.	XEFM 1160 20 Leon, Gto.	XEW 890 50000
	XEAO 660 250	XEFO 940 5000	Mexico City, D. F XEX 1310 125
	Mexicall, B. C. XEAP 1340 50	Mexico City, D. F. XEFQ 1010 50	Monterrey, N. L.
	Obregon, Son.	XEFQ 1010 50 Cananea, Son.	XEXB 1270 250 Jalapa, Ver.
	XEAS 1160 100 Saitillo, Coah.	XEFV 1210 100 Juarez, Chih.	XEXD 1340 350
	XEAT 1210 250	XEFW 1310 300	Jalapa, Ver. XEXE 1270 17
	Parral, Chih. XEAU 1320	Tampico, Tams. XEG 1230 250	Texcoco, D. F.
	Tijuana, B. Cfa.	Monterrey, N. L.	San Luis Potosi, S.L.P.
l	XEAW 960 100000 Reynosa, Tams.	XEH 720 250 Monterrey, N. L.	XEXM 610 500
	XEB 1030 10000	XEI 1370 125	Mexico City, D. F. XEXS 1310 100
	Mexico City, D. F. XEBA 1080 20	Morelia, Mich. XEJ 1020 1000	Mexico City, D. F.
	Guzman, Jal.	Juarez, Chih.	XEXX 1170 1000 Mexico City, D. F.
	XEBG 820 1000 Tijuana, B. Cfa.	XEJP 1130 100 Mexico City, D. F.	XEYO 610 500
	XEBH 930 500	XEJW 870 500	Mexico City, D. F. XEZ 630 500
	Hermosillo, Sonora XEBI 1000 25	Mexico City, D. F. XEK 890 100	Merida, Yuc.
j	Aguascalientes, Ags.	Mexico City, D. F.	ZNS 540 400 Nassau, Bahamas
	XEBK 1080 100 Neuvo Laredo, Tams.	XEKL 1240 500 Leon, Guan.	YSS 640 500
		, Doug, Guan.	San Salvador, E. S.

At DEADLINE . . .

THE International Telecommuni-Lations Conference at Cairo has set aside the band 4775 to 4895 kilocycles for broadcasting in tropical America, and the band 4835 to 4965 kilocycles for broadcasting in tropical regions in other parts of the world.

From the Postmaster General's Department at Melbourne, we learn of the following changes in Australian station data:

in Charleville, Qsld., moved from 1430 to 570 kcs.

7QT in Queenstown, Tas. has moved from 900 to 680 kcs.

4TO in Townsville, Qsld., changed from 1160 to 780 kcs.

3UL in Warragul, Vic. moved from 1000 to 900 kcs.

7EX, a new station, for Launceston, Tas., to work on 1000 kcs with 500 watts power.

4RO, Rockhampton, Qsld., moved from 1330 to 1080 kcs.

2AD, Armidale, NSW, changed from 1080 to 1130 kcs.

A new station in Young, NSW, was assigned the letters 2LF. It works on 1330 kcs with one hundred watts.

4BU in Bundaberg, Qsld., moved from 1480 to 1330 kcs.

5SE, Mount Gambier, S. A., moved from 1340 to 1370 kcs.

4MK in Mackay, Qsld., changed from 1080 to 1390 kcs.

7DY is a new station on 1400 kcs with 100 watts. Its location has been variously given as Burnie, Devonport and Derby.

2WL in Wollongong, NSW, increased power from 200 to 500 watts. It works on 1430 kcs.

KPFA in Helena, Mont., 1210 kcs, has become an outlet for the National Red and Blue Networks.

Time Conversion Table

The time given in our indices is Eastern Standard by the 24-hour clock.

EST 24-hr.	_				
Clock	EST	CST	MST	PST	GMT
0000	Midn't	11 pm	10 pm	9 pm	0500
0100	1 am	Midn't	11 pm	10 pm	0600
0200	2 am	1 am	Midn't	11 pm	0700
0300	3 am	2 am	1 am	Midn't	0800
0400	4 am	3 am	2 am	1 am	0900
0500	5 am	4 am .	3 am	2 am	1000
0600	6 am	5 am	4 am	3 am	1100
0700	7 am	6 am	5 am	4 am	1200
0800	8 am	7 am	6 am	5 am	1300
0900	9 am	8 am	7 am	6 am	1400
1000	10 am	9 am	8 am	7 am	1500
1100	11 am	10 am	9 am	8 am	1600
1200	Noon	11 am	10 am	9 am	1700
1300	. 1 pm	Noon	11 am	10 am	1800
1400	2 pm	1 pm	Noon	11 am	1900
1500	3 pm	2 pm	1 pm	Noon	2000
1600	4 pm	3 pm	2 pm	1 pm	2100
1700	5 pm	4 pm	3 pm	2 pm	2200
1800	6 pm	5 pm	4 pm	3 pm	2300
1900	7 pm	6 pm	5 pm	4 pm	2400
2000	8 pm	7 pm	6 pm	5 pm	0100
2100	9 pm	8 pm	7 pm	6 pm	0200
2200	10 pm	9 pm	8 pm		0300
2300	11 pm	10 pm	9 pm		0400
2400	Midn't	11 pm	10 pm	9 pm	0500
For time	s throughou	t the entire	world	consult the	RADEX

Time Converter.

TIME CONVERTER

The RADEX Map of the World with Time Converting Dial is the most useful accessory any radio fan could have around. Just a twirl of the dial shows the correct time at any location in the world. No calculation is necessary; the dial does all the work.

You Can't Get Along Without It.

The price is only

25c

(26c in Ohio)

QUICK INDEX TO STATION DATA

North American Broadcast

By FrequenciesMay	'38,	p.	62
By LocationsMay	'38,	p.	79
By CallsMay	'38,	p.	85
Frequency Checks May	' 38,	p.	40
Names of OwnersOct.	'37,	p.	63
Owners' AddressesDec.	'37,	p.	63

Time on the AirMay '38, p. 62
Shortwaves
Broadcasters, with Time on Air . May '38, p. 43
North American PoliceApr. '38, p. 47
Owners and Addresses May '38, p. 43
By Locations
By Calls
Foreign Broadcast
By Frequencies Dec. '36, p. 43
By Locations Dec. '36, p. 52
By Calls Dec. '36, p. 57
AsiaFeb. '38, p. 46
Oceania
South America
EuropeJune '37, p. 49
Long Waves
By FrequenciesApr. '36, p. 49
By Locations
By Calls
Miscellaneous
Radio Codes ExplainedOct. '37, p. 3
Choosing a RadioSept. '37, p. 3
Roster of DX ClubsNov. '37, p. 58
NBC Network StationsFeb. '38, p. 49
Columbia Network Stations Mar. '38, p. 47
Mutual Network Stations Feb. '37, p. 16
Canadian Network StationsMar. '37, p. 49

INSURE YOUR RADIO ENJOYMENT

SEND THIS BLANK TODAY

The Radex Press 14717 Detroit Ave., Cleveland, Ohio:

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

- ☐ One year's subscription to RADEX, 10 issues...... \$1.75

Print Name Plainly.....

Street and Number.....

.

City and State.....

FOR BETTER RECEPTION

The Perfect Phone Adapter makes it easy to attach headphones to any radio set. Anyone can install it, without tools, in no time at all,

IDEAL FOR THE HARD-OF-HEARING

Those who are very hard of hearing can enjoy radio reception by using our new HOH Model Adapter. The speaker can be silenced if desired.

In ordering be sure to give make and model of receiver and a list of the tubes used.

The HOII Model Phone Adapter \$3.95

We pay the postage on all orders

If you live in Ohio add 3% for Sales Tax



THE RADEX PRESS
14717 Detroit Ave., Cleveland, Ohio

ACCESSORIES FOR USE WITH

Prices on single-unit or special 'phones on request.

We pay the postage on all orders
If you live in Ohio add 3% for Sales Tax

THE RADEX PRESS 14717 Detroit Ave., Cleveland, Ohio

J. E. SMITH, President National Radio Institute Established 1914

Here's Proof



Earned \$50 First Month In Spare Time

"I knew nothing about Radio. After four lessons I began

servicing Radios, carning \$50 the first month. Last winter I made as high as \$100 a month in spare time."—G. F. WALTON, 808 West Olney Road, Norfolk, Va.

Own Business Pays \$300 a Month

"I now have my own Radio business which shows three hundred dollars a month profit—thanks

profit—thanks again to National Radlo."— FRANK T. REESE, 39-N. Felton St., Philadelphia, Penna.



Get My LESSON on Radio Servicing Tips FREE

I'll prove that my Training is just what you need to master Radio. My sample lesson text, "Radio Receiver Troubles — Their Cause and Remedy" covers a long list of Radio receiver troubles in A.C., D.C. battery, universal, auto, T.R.F., super-heterodyne, all-wave, and other types of sets, cross-indexed for quick reference. Special section on receiver check-up, alignment, balancing, neutralizing, testing. Get this lesson Free. Mall the Coupon.

I WILL TRAIN YOU

TO START A SPARE TIME OR FULL TIME RADIO SERVICE BUSINESS WITHOUT CAPITAL

Do you want to make more money? The world wide use of Radio has made many opportunities for you to have a spare time or full time Radio service business of your own. Three out of every four nomes in the United States have Radio sets which regularly require repairs, servicing, new tubes, etc. I will train you at home in your spare time to sell, install, service, all types of Radio sets—to start your own Radio business and build it up on money you make in your spare time while learning. Mail coupon for my 64-page book. Its Free—it shows what I have done for others—what I am ready to do for you.

Many Make \$5, \$10, \$15 a Week Extra In Spare Time While Learning

Almost every neighborhood needs a good spare time serviceman. The day you enroll I start sending you Extra Money Job Sheets. They show you how to do Radio repair jobs that you can cash in on quickly. Throughout your training I send you plans and ideas that have made good spare time money—from \$200 to \$500 a year—for hundreds of fellows. I send you special equipment which gives you practical Radio experiments and build circuits which flustrate important Radio principles.

Get Ready Now for Your Own Radio Business and for Jobs Like These

Radio broadcasting stations employ engineers, operators, station managers and pay up to \$5,000 a year. Spare time

Radio set servicing pays as much as \$200 to \$500 a year—full time servicing jobs pay as much as \$30, \$50, \$75 a week. Many Radio Experts own their own full time or part time Radio businesses. Radio manufacturers and jobbers employ testers, inspectors, foremen, englineers, service men, paying up to \$6,000 a year. Radio operators on ships get good pay, see the world besides. Automobile, police, aviation, commercial Radio, loud speaker systems offer good opportunities. Television promises nany good jobs soon. Men I have trained at home hold good jobs in these branches of Radio.

Find Out What Radlo Offers You

Mail the coupon now for my Free Lesson and my book, "Rich Rewards in Radio." Both are free to anyone over 16 years old. My book points out Radio's spare time and full time opportunities and those coming in Television; tells about my Training in Radio and Television; shows you letters from men I have trained, telling what they are doing and earning; tells about my money back agreement. MAIL THE COUPON in an envelope, or paste it on a penny post eard—NOW!

J. E. SMITH, President National Radio Institute, Dept. 8EO Washington, D.C.



GOOD FOR BOTH 64 PAGE BOOK FREE

	J. E. SMITH, President, Dept. 8EO National Radie Institute, Washington, D. C. Dear Mr. Smith: Without obligating me, send your sample lesson and the book which tells about spare time and full time Radio opportunities, and how I can train for them at home in spare time. (Please write plainly.)
ı	Name
	Address
ı	City