



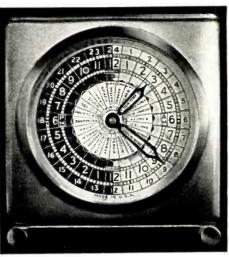
The All-wave Radio Log





Short Wave List Showing Names and Addresses, Location, Slogans, And Schedules of all Stations Amateur Stations Heard





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THE RADEX PRESS

14717 Detroit Ave.,

Cleveland, Ohio

MAY 1, 1938







Publisher PAGE TAYLOR Editor

ASSOCIATE EDITORS B. FRANCIS DASHIELL, Technical CARLETON LORD, Broadcast

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1

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 preceeded 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 Anniversarv 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.

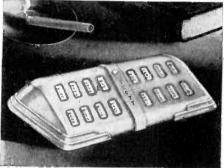
The address is Sr. Amando Cespedes Marin, Apartado 40, Heredia, Costa Rica.

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.
- 5. To Radio News and Short Wave Radio, and Laurence M. Cockaday.
- 6. To The United States of America.

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- 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.
- 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.
- 10. 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.
- To the New Zealand shortwave radio clubs and Mr. A. B. Mc-Donaugh 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.
- 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.
- To Mr. William H. Reeks, and his sister, Miss Edith Reeks, of Chicago, Ill.
- 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

THE 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.

r	requen	•	
Station	сy	Location	Schedule
KTSA	550	San Antonio, Tex	1st Mon. of the month, 1-1:15.
WPAY	1370	Portsmouth, Ohio	.1st Mon. of month, 4-4:30.
WRR	1280	Dallas, Tex.	.1st and 3rd Tues., 1-1:30.
KLAH	1210	Carlsbad, N. Mex.	.1st Tues., 4-4:30.
KAND	1310	Corsicana, Tex.	.1st Tues, 4-5.
KWOS	1310	Jefferson City, Mo.	.1st Wed., 2-2:30.
KWBG	1420	Hutchinson, Kans.	. 1st and 3rd Wed., 6:30-7.
KNOW	1500	Austin, Texas	.1st Thurs., 1:45-2:15.
WACO	1420	Waco, Texas	.1st Fri., 1:45-2.15.
KIUN	1420	Pecos, Texas	.1st Fri., 2:30-3.
KAWM	1500	Gallup, N. Mex	. Every Thurs. except the 2nd of month, 4-5.
KEUB	1420	Price, Utah	.1st Sat., 2-2:30.
KGFI	1500	Brownsville, Tex	.1st Sat., 2-2:30.
KSAL	1500	Salina, Kans.	.1st Sat., 2:30-3.
KTEM	1370	Temple, Tex.	•On the 5th of every month, 3-3:30.
WGRC	1370	New Albany, Ind.	.On the 6th of every month, 3:30-4.
KVGB	1370	Great Bend, Kans	. On the 7th of every month, 3-3:30.
WPAD	1420	Paducan, Ky.	. On the 7th of every month, 3-3:30.
WHEF	1500	Kosciusko, Miss.	.2nd Tues., 2:30-3.
WJAG	1060	Norfolk, Nebr.	. 2nd Fri., 1:30-2.
KPOF	880	Denver, Colo.	. 2nd FTL, 2:15-2:45.
WCAZ	1070	Carthage, Ill.	2nd Sal., 3:30-4.
KGFW	1310	Levington Vy	. On the 15th and 29th of every month, 2-2:30.
WLAP	1420	Ado Oklo	Last Fri. of the month, 2-2:30.
KADA	$1200 \\ 1500$	Mughoreo Okla	On the 25th of every month, 2:45-3:15
KBIX WBBZ	1200	Muskogee, Okla.	. On the 29th of every month, $6-6:30$.
WSUI	880	Iowa City Iowa	. On the Wed, morning preceding the 1st
waui	000	10wa City, 10wa	Sat. of every month, 1:30-2:30.

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

Frequer.

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 kcs, 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

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-

• • • By CARLETON LORD



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 Monduss at 7:30 pm EDST. This is a new all-request program featuring the orchestra of Freidie Rich.

tioned whether there was a need to have the program repeated every few weeks during the winter It was pointed out that, months. 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 lineup 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 special broadcast. Securing dedications 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' responsive. were more stations Take the case of WSPR at Bosh! 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 are schedule, so they have no frequency check. 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 guestion due to conditions beyond their control. The spirit of DX was there, but other factors were a handicap. Not to be discouraged, I again wrote Mr. details Brackett, outlining many 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. To me, that proves conclusively that DX-minded if apare stations proached 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. Next 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 4tube 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. "Commencing 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 Puerto Rico. Reports are out to 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 4tube 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 а 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 keys. Down on 1080 I have heard HJIABB, 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 kcvs. 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 weekdays 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 recommended 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 kcys., 50 watts; XEME, Merida, Yuc., 1249 kcys., 50 watts; and XEXX, Mexico City, on 1170 kcys., 1000 watts. Other changes find XEXS, Mexico City, on 1310 with 100 watts, XEYO on 610 kcys., XEXE in Texcoco instead of Mexico City, XEXB with 250 watts, XEBS and XEAP on 1340 kcys., 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. "In 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 kcys. 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. Its 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 els. from which reports will be sent out to a great many stations all over the world. Distributed about the 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.

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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. Separate 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. Α 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. Between 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 ing. February 22nd, the West Coast was pounding in. KOA was R7, KNX R6. KFI R4 and KSL R7. And from the practically every South. 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 Brinkley episode was funny," 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

• • • 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. The dyspeaker, because of this namic 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 current. 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 to 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 dynamic 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 be purchased from the leading 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 fo 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.

pre-selector is of value, of Α course, for it provides more r-f amplification and, therefore, will amplify weak signals from the antenna before they are passed into The Allied receiver. radio the 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 The amateurs seem to reband. peat 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 when 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 receiver carefully have the to 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 of 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 short 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 of radio-frequency amplification. 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. а careful checking for neutralization and 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

My 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 set. 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 guestion 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 noise the line, are affected. 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. If a 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 a 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 amperage 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, the 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 Jacksonville, Ill., and in Charleston, S. C.

Five Years of GERMAN Broadcasting

"T 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 and 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. They 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 send booklets. travel literature, 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	15200 kcs	Sunday, 11:10 am t 12:25 pm	0
DJB	15200 kcs	4:50 pm to 10:45 pm	
DJD	11770 kcs	4:50 pm to 10:45 pm	
DJL	$15110 \mathrm{~kcs}$	S:00 am to 9:00 am	
		For Asia	
DJA	9560 kcs	12:05 am to 11:00 am	
DJB	15200 kcs	12:05 am to 11:00 am	
DJE	17760 kcs	12:05 am to 5:50 am	
DJE	17760 kcs	8:10 am to 10:00 am	
DJQ	15280 kcs	12:05 am to 5:50 am	
DJQ	15280 kcs	8:10 am to 10:00 am	
DJS	21450 kcs	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
\mathbf{DJL}	15110 kcs	Sundays,	6:00 to	8:00 am

For Central America

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

For South America

DJE	17760 kcs	6:00 am to 8:00 am	
DJE	17760 kcs	Sunday, 11:10 am 12:25 pm	to
		12.20 pm	
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 am	to
		12:25 pm	
DJQ	15280 kcs	4:50 pm to 10:45 pm	

Broadcasting in BULGARIA

• • By Douglas E. Manke

A 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.

Bulgaria Broadcasting in was 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 expenses are defrayed by the sale of

a weekly radio magazine, and by contributions from listeners. Due to the scarcity of funds, program organizers have to rely greatly on phonograph records, and to take commercial announcements. The 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, 2 kilowatts.

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, S. I.

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 kcs. 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, is 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." Although 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 Ocean, north of the Andaman 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. (RN91 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 kcs, daily 10:30 pm to midnight, and 2-4 am, EST.

VUD3, 11870 kcs, not on the air yet.

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 cast. 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. As 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 midnight, EST. (Velasco, RX52 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 operate. 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 Their programs aerials into use. 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 kcs, 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

W2XGB at Hicksville, N. Y., 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. The 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, KTGR2, WAMC, WWMA and WYYA, (RX33 Kans.)

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 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, Martin Van Buren, William Henry Harrison, John Tyler, James Polk, Millard Fillmore, Franklin Pierce, James Buchanan, Andrew Johnson, Chester A. Arthur, and Calvin 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 4½ c, 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 in-

cluded 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 Martha Washington. 2cJohn Adams, 3c Jefferson, 4c Madison, 4½c Monroe. 5c John Quincy 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 6c deep ultramarine America). (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 %d. 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

THERE 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 August 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 1¹/₈ 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

 $T_{
m dances}^{
m HE\ rhythm\ of\ some\ of\ the}$ 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 varavi. 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 is 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, Freda 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. The 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") Bolero Son ("Adela") Pregon ("El Manicero") Rumba ("Cachita") Conga ("Alegre Conga") 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")

Colombia

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

Ecuador

Yaravi ("Cayambe")

Sanjuanito ("Al pie del Capuli") Fox Incaico ("Recuerdos del Chimborazo") Pasacalle ("Cholita Linda")

Pasillo ("Oyeme")

Peru

Yaravi Huaino Marinera Tondero

Bolivia

Cueca

Zamacueca

Chile

Tonada Argentina

Tango ("Adios Muchachos") Ranchera

anchera

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 modest power. Α "CQ" rather 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, Saskatchewan. Paul Luseland. 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. No 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	2R04	Rome, Italy. 25 kw. (B).
		"Radio Roma-Napoli." Ann:
		usually by lady. s/o: two nat'l
		anthems, "Giovinezza" and
		"Marchia Reale." Add: EIAR,
		Via Montello 5. Hrs: 5 a.m
		12:20 p.m.
12000	RNE	Moscow, 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: "Inter-
		nationale." Add: Solianka 12.
19869	W9XDH	Elgin, Ill. (Ex). Press Wireless.
12002	" JADH	Inc.
12870	17170	Mingaladon, Burma. 1500 w.
12870	V V 8	
		(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 Rupahuni 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. He 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. When 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 20meter 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, ZL2BJ 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 No attempt is made to show 14.400. exact frequencies a 8 they vary80 areatly)

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 Zealand.
- 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. Key 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

anegacycles—fen Meters
Heard by (w): E19D; G6DH.
Heard by (z): CN8AV; G-: 2ZV; 5BM;
5LJ; 6AG; 6BW; 6GO; 6GX; 6WU; 8GX;
SSA; HI7G; K4FAY; K6MVV; LU4EL;
ON4FE; ON4PA; VP6YB; VP9R; TV5AA;
VV5AK YV5AK.

YV5AK. 14 Megacycles—Twenty Meters A-CAC3KX (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); 2EA (x); 2GL (x); 2JM (x); 2DV (x); 2EA (a) muz; SMA (g); SMU (m); 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); 7CZ (x); 7CX (gx); 7UP (g); 8BC (x); SJK (x); SRQ (x); SYB (x); CT-: 1AY (o); 1EA (t); 1GQ (fgotw); 1JW (u); 1QH (g); CX2AK (df); CX2AU (g).

 $\begin{array}{c} \mathbf{E} \cdot \mathbf{F} \\ \mathbf{E} \cdot \mathbf{F} \\ \mathbf{E} \cdot \mathbf{S} \\ \mathbf{$ E-F

SQD (hmot); SUE (mo); SWE (m); SXL (t); SXN (hot); SZF (t). GI: 2CC (dgostu); 2CP (t); 5QX (gou); GM:: 2DI (u); 2UU (fjmoru); 3BD (g); 5MW (ou); 5ST (u); 6RV (f); 6WU (fhp); SRJ (hu); GWSUW (u); GWSCT (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 (fmos); 2VB (t); 2VT (k); 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 (hwo); 5KH (adho); 5KV (r); 5LU (fhox); 5KL (adfhowx); 5NA (o); 5NI (htx); 5OV (j); 5PP (do1; 5QN (hjmotx); 5RV (hmo); 5TP (h); 5TZ (f); 5WH (ah); 5XT (o); 5YV (hmo); 5ZG (jort); 5ZJ (ow); 6AB (t); 6AG (df(wx); 6AZ (x); 6BL (a); 6BW (ghotx); 6BX (t); 6CT (mot); 6DW (t); 6FJ (a); 6FS (m); 6GF (tx); 6GO (f): 6GW (t); 6HV (o); 6IA (tu); 6JF (fhotw); 6LL (s); 6JQ (gt); 6KL (fmo); 6LA (dt); 6LJ (d); 6LX (dhfmort); 6LA (dt); 6LL (h); 6KY (t); 6FF (u); 6NJ (t); 6NL (h); 6NY (t); 6FF (u); 6RS (t); 6RX (t); 6SF (tz); 6CZ (t); 6RX (t); 6SF (tx); 6GO (f): 6GW (f); 6NL (h); 6NY (r); 6OA (f); 6RG (f); 6NL (h); 6NY (r); 6OA (f); 6RG (f); 6RX (h); 6VY (d); 6WX (dfhosx); 6WY (m); 6XR (dhfhw); 6YX (o); 8AU (f); SBI (os); 8BS (o); 8BX (mo); 8IG (h); 8IT (w); 8EZ (m); 8MA (hmost); 8MF (uw); 8EZ (m); 8MA (hmost); 8MF (uw); 8SE (o); 8UV (f). HHB-: 9BG (h); 9BJ (o); 9BL (o); 9BL (o); 9EM (o); 9BL (o); 9BL (o); 9EM (o); 9BL (o); 9BL (o); 9BL н

 $\begin{array}{c} H\\ \textbf{HB-:} 9BG(h); 9BJ(o); 9BL(o); 9BR\\ (h); \textbf{HC-:} 1FG(losz); 1JB(ahlmxz);\\ 1JW(ouw); \textbf{HI-:} 2B(ahlx); 2LD(w);\\ 2PB(u); 2X(au); 4AS(af); 5FA\\ (ahotwxy); \textbf{HI-:} 2W(dfox); 3N\\ (adhowx); 3W(o); 4F(o); 5A(k); 5X\\ (adhotwz); 7G(x); 7I(ao); 7L(d); 7N\\ (a); \textbf{HK-:} 1BG(h); 1DG(dfx); 1GC(x);\\ \end{array}$

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

IJ-K ITKM (w); J2NF (p); J2NS (g); **KA**-: **IME** (k); **IMG** (k); IZL (k); 2OB (u); **K4**-: DDH (fotux); EIL (o); EJF (lpx); EMG (u); ENT (qu); 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); 7BK (a); 8AB (x); 8DR (z); 9BV (dm); 9PA (u); Malaga (u); NY2AE (lz).

OP OP 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).

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).

(b), 211D (c), 211 (), 6G (p). 2KP (t); 2RC (akx); 6G (p). V VE-: 1BE (k); 1DC (g); 1FG (k); 1FX (k); 2CA (g); 2EE (g); 2KX (g); 3AHA (g); 3C1 (g); 3IX (g); 4MO (g); 4YO (g); 5ABD (g); 5AN (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 (mi; 2AS (u); 2BQ (mA); 2CE (g); 2CP (y); 2DK (A); 2GU (flmrz); 2HF (koz); 2HJ (m); 2HV (m); 21L (x); 2JH (m); 2JU (agi); 2JV (m); 2OQ (fu); 2RQ (p); 2UC (mo); 3EZ (moq); 3DQ (x); 3GD (k); 3GG (m); 3HJ (y); 3JR (s); 3KX (fo); 3LA (m); 3MX (fm; 3NG (f); NP (fiA); 3TT (ag); 3PL (i); 3PO (k); 3MC (k); 3TT (ag); 3PL (i); 3PO (k); 3MC (k); 3TT (mu;); 3ZX (o); 3ZZ (agmq); 4EC (mq); 4G (fu); 4JU (m); 5WD (m); 5XJ (kmoy); 5XP (i); 1DQ (z); 1I (o); 1P (o); 1R (A); 1T (x); 1X (ow); 1Y (owx); 2N (x); 2Z (x); 3Z (f); 4A (u); 6D (adf)fortux); 6J (fou); 3XYZ (u); 4GA (adghuz); 4TH (u); 5PZ (u); 6AR (agghu); 1DA (x); 2DA (au); 3XYZ (u); 4GA (adghuz); 4TH (u); 5PZ (u); 6AR (o); 6FO (z); 6MR (adfoxz); 6TR (ahox); 6YB (oux); TNA (uxz); 9G (uwx); 9L (uxA); 9R (aiptx); VRA(N); (u); VR6A (bdmqu); VR6AY (puA); VU2CQ (u). $\dot{V}U2CQ$ (*u*).

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

W10XAB (adknowxA), X-Y **XE**: 1BC (x); 1BT (d); 1F (k); 1FF (dl); 1GK (kx); 1GS (k); 1H (z); 1S (k); 2AC (k); 2BJ (dk); 2CY (kx); 2F (n); 2GS (k); 2HD (dfkx); 2HR (n); 2IY (il); 2JK (k); 2SY (k); 3AR (z); 1BA (x); Y12BA (t); **YN**: 1HS (u); 1OP (hA); 3DG (dA); YR5AA (u); **YV**: 1AA (wz); 1AB (l); 1AC (o); 1AG (z); 1AP (ehmoyz); 1AQ (ahklotuwxz); 4AA (achlmxz); 4AB (acouz); 4AN (a); 4AO (uvxz); 4AX (u); 5ABQ (aco); 5ABA (ox); 5ABF (ckovz); 5ABQ (aco); 5ABY (acfklopuwxz); 5AD (ah); 5AG (fmo); 5AK (o); 5AM (c); 5AN (afx); 5AQ (ak); 5AZ (acovxz).

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

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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.

	S	iecond	Monday	
3:00-3:15	WABY	1370	Albany, N. Y.	4
3:05-3:20	WMAS	1420	Springfield, Mass.	4
3:10-3:25	WCAX	1200	Burlington, Vt.	
3:15-3:30	WRDO	1370	Augusta, Maine	4
3:20-3:35	WAGM	1420	Presque Isle, Me.	4
3:30-3:45	WQDM	1390	St. Albans, Vt.	
3:35-3:50	WMFF	1310	Plattsburg, N. Y.	4
3:40-3:55	WABI	1200	Bangor, Maine	-
3:45-4:00	WCAD	1220	Canton, N. Y.	4
3:50-4:05	WLNH	1310	Laconia, N. H.	
3:55-4:10	WIBX	1200	Utica, N. Y.	4
4:00-4:15	WWRL	1500	Woodside, N.Y.	
4:05-4:20	WMBO	1310	Auburn, N. Y.	4
4:10-4:25	WBRB	1210	Red Bank, N. J.	4
4:20-4:35	KVOX	1310	Moorhead, Minn.	4 5
4:25-4:40	KFPW	1210	Fort Smith, Ark.	5
4:30-4:45	WMIN	1370	St. Paul, Minn.	5
4:35-4:50	KNET	1420	Palestine, Texas	3
4:40-4:55	WBBZ	1200	Ponca City, Okla.	0
4:45-5:00	KFGQ	1370	Boone, Iowa	3
4:50-5:05	KRBC	1420	Abilenc, Texas	5
4:55-5:10	KGIII	1200	LittlewRock, Ark.	5
5:00-5:15	KTEM	1370	Temple, Texas	5
5:05-5:20	KABR	1420	Aberdeen, S. D.	5 5 5 5 5 5 5 5 5 5 5 6 6
5:10-5:25	KGEK	1200	Sterling, Colo.	0
5:15-5:30	KFJZ	1370	Fort Worth, Texas	0
5:20-5:35	WMBH	1420	Joplin, Mo.	6
5:25-5:40	WIL	1200	St. Louis, Mo.	
5:30-5:45	WOC	1370	Davenport, lowa	6
5:35-5:50	KABC	1420	San Antonio, Texas	6 6
5:40-5:55	KADA	1200	Ada, Okla	
5:45-6:00	KLUF	1370	Galveston, Texas	6
5:55-6:10	KHBC	1400	Hilo, Hawaii	6 6
6:00-6:15	KRE	1370	Berkeley, Calif.	
6:05-6:20	KXO	1500	El Centro, Calif.	6
6:10-6:25	KWG	1200	Stockton, Calif.	7
6:15-6:30	KERN	1370	Bakersfield, Calif.	
6:20-6:35	KUMA	1420	Yuma, Ariz.	3
6:25-6:40	KVCV	1200	Redding, Calif.	3
6:30-6:45	KLS	1280	Oakland, Calif.	3
6:35-6:50	KYOS	1040	Merced, Callf.	3
6:40-6:55	KSUN	1200	Lowell, Ariz.	3
6:45-7:00	KGDM	1100	Stockton, Callf.	3
6:50-7:05	KIEM	1450	Eureka, Calif.	3
6:55-7:10	KVEC	1200	San Luis Obispo, Calif.	3
0.00 1.10				

		econd	
3:00-3:15	WSJS	1310	Winston-Salem, N. C.
3:05-3:20 3:10-3:25	WMFJ WAIM	$1420 \\ 1200$	Daytona Beach, Fla.
3:15-3:30	WMFD	1370	Anderson, S. C. Wilmington, N. C.
3:20-3:35	WEED	1420	Rocky Mount, N. C.
3:25-3:40	WJNO	1200	W. Palm Beach, Fla.
3:30-3:45	WRDW	1500	Augusta, Ga.
3:35-3:50	WICA	940	Ashtabula, Ohio
	WIOD	610	Mlami Fla.
3:40-3:55	WAYX	1200	Waycross, Ga.
3:45-4:00	WBLY WDNC	$1210 \\ 1500$	Lima, Ohio Durham, N. C.
3.43-4.00	WPAY	1370	Portsmouth, Ohio
3:50-4:05	WAIR	1250	Winston-Salem, N. C.
	WMBC	1420	Detroit, Mich.
3:55-4:10	WALR	1210	Zanesville, Ohio
	WMFR	1200	High Point, N. C.
4:00-4:15	WHBB	1500	Selma, Ala.
	WKRC	550	Cincinnati, Ohio Clevcland, Ohio
4 :05-4 :20	WCLE	610	New Orleans, La.
4:10-4:25	WSMB KALB	1320 1210	Alexandria, La.
4.10-4.20	WLBC	1310	Muncie, Ind.
4:15-4:30	KELD	1370	El Dorado, Ark.
	WOPI	1500	Bristol, Tenn.
	WWAE	1200	Hammond, Ind.
4:20-4:35	WACO WBCM	1420	Waco, Texas Bay City, Mich. Orlando, Fla.
	WBCM	1410	Bay City, Mich.
	WDBO	580	Orlando, Fla.
4:25-4:40	KNYZ WCMI	1440 1310	Houston, Texas Ashiand, Ky
	WSIX	1210	Nashville, Tenn.
4:30-4:45	KGKL	1370	San Angelo, Tex.
100 110	WHBY	1200	San Angelo, Tex. Green Bay, Wis.
	WHEF	1500	Kosciusko, Miss.
4:35-4:50	KCMC	1420	Texarkana, Tex.
	WHK	1390	Cieveland, Ohio
4:40-4:55	KRGV	1260	Weslaco, Texas
4:45-5:00	WADC KTOK	$1320 \\ 1370$	Akron, Ohio Oklahoma City, Okla.
4.40-0.00	WJBK	1570	Detroit, Mich.
4:50-5:05	KGFF	1420	Shawnee, Okla.
4:55-5:10	KFVS	1210	Cape Girardeau, Mo.
5:00~5:15	K MAC	1370	San Antonio, Texas Corsicana, Texas Carlsbad, N. Mex.
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 KDLR	1310 1210	Oklahoma City, Okla. Devils Lake, N. D.
5:25-5:40 5:30-5:45	KICA	1370	Clovis N Mex.
5:35-5:50	KGMB	1320	Clovis, N. Mex. Honolulu, Hawaii
5:40-5:55	KBTM	1200	Jonesboro, Ark.
5:45-6:00	KRMC	1370	Jamestown, N. D.
6:05-6:20	KORE	142Q	Eugene, Ore.
6:10-6:25	KOOS	1200	Marshfield, Ore.
6:15-6:30	KAST	1370	Astoria, Ore.
6:20-6:35	KPQ KFXD	$1500 \\ 1200$	Wenatchee, Wash. Nampa, Idaho
6:25-6:40 6:30-6:45	KUJ	1200	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	1 37 0	Everett, Wash.
			/ednesday
3:00-3:15	WTEL	1310	Philadelphia, Pa.
3:05-3:20	WNBF	1500	Philadelphia, Pa. Binghamton, N. Y. Lynchburg, Va.
3:10-3:25	WLVA	1200	Lynchburg, Va. Grove City, Pa.
3:15-3:30	WSAJ	1310	Pittsburgh, Pa.
3:20-3:35 3:25-3:40	WWSW WBAX	$1500 \\ 1210$	Wilkes-Barre, Pa.
3:25-3:40	WHAT	1310	Philadelphia, Pa.
3:35-3:50	WRTD	1500	Richmond, Va.

3:40-3:55	WBBL	1210	Richmond, Va.		WTRC	1310	Eikhart, Ind.
3:45-4:00	WBNY	1370	Buffalo, N. Y.	5:10-5:25	KHBG	1210	Okmulgee, Okla.
3:50-4:05	WHIS	1410	Bluefield, W. Va.	5:15-5:25	KONO	1370	San Antonio, Tex.
	WKOK	1210	Sunbury, Pa.	5:20-5:35	KGKB	1500	Tyler, Texas
3:55-4:10				5:25-5:40	KASA	1210	Elk City, Okla.
4:00-4:15	WFBG	1310	Altoona. Pa.	5:30-5:45	KFRO	1370	Longview, Texas
4:05-4:20	WQAN	880	Scranton, Pa.			1500	
4:10-4:25	KWNO	1200	Winona, Minn.	5:35-5:50	KNOW		Austin, Texas
	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
1110 1100	WEBR	1310	Buffalo, N. Y.	5:50-6:05	KCRJ	1310	Jerome, Ariz.
		1370	Jackson, Mich.	5:55-6:10	KIUL	1210	Garden City, Kans.
	WIBM			0.00-0.10	KVOA	1260	Tucson, Ariz.
4:20-4:35	KBST	1500	Big Spring, Texas	0.05.0.00			
	WPAR	1420	Parkersburg, W. Va.	6:05-6:20	KIIUB	1310	Warsonville, Calif.
4 :25-4 :40	KSO	1430	Des Moines, Iowa	6:10-6:25	KGGC	1420	San Francisco, Callf.
	WCLO	1200	Janesville, Wis.	6:15-6:30	KGAR	1370	Tucson, Ariz.
4:30-4:45	KROC	1310	Rochester, Minn.	6:20-6:35	KSRO	1310	Santa Rosa, Calif.
4.00-4.10	WEOA	1370	Evansville, Ind.	6:25-6:40	KTRB	740	Modesto, Calif.
4.95 4.50		1500	Duluth, Minn.	6:30-6:45	KJBS	1070	San Francisco, Calif.
4:35-4:50	KDAL		Duluth, Minh.		KSUB	1310	Cedar City, Utah
	WELL	1420	Battle Creek, Mich.	6:35-6:50	REON		
4:40-4:55	WHBC	1200	Canton, Ohio	6:40-6:55	KDON	1210	Monterey, Calif.
	WTAW	1120	College Station, Tex.	6:45-7:00	KGU	75 0	Honolulu, Hawali
4:45-5:00	KRMD	1310	Shreveport, La.	6:50-7:05	KHSL	126 0	Chico, Calif.
1110 0100	WSAU	1370	Wausau, Wis.	6:55-7:10	KROY	1210	Sacramento, Calif.
4:50-5:05	KNEL	1500	Brady, Texas				
4:00-0.00					-		Friday
	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	3:20-3:35	WLEU	1420	Erie, Pa.
0.00-0.20	WCBS	1420	Springfield, 111.				
				3:25-3:40	WCAP	1280	Asbury Park, N. J.
5:10-5:25	KGKO	570	Wichita Falls, Tex.		WSAY	1210	Rochester, N.Y.
5:15-5:30	KFPL	1310	Dublin, Texas	3:30-3:45	WDEV	550	Waterbury, Vt.
	WDWS	1370	Champaign, Ill.		WGH	1310	Newport News, Va.
5:20-5:35	KAWM	1500	Gallup, N. Mex.	3:35-3:50	WCNW	1500	Brooklyn, N. Y.
0.22.2.2.2	WPAD	1420	Paducah, Ky.	0.00 0.00	WMBS	1420	Uniontown, Pa.
5:25-5:40	KGLO	1210	Mason City, Iowa	3:40-3:55	WFAS	1210	White Plains, N. Y.
0.20-0.10	WJBC	1200	Bloomington, Ill.	0.40-0.00			
F.00 F.4F					WMBG	1350	Richmond, Va.
5:30-5:45	KRRV	1310	Sherman, Texas	3:45-4:00	WORO	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.
0.10-0.00				3:55-4:10	WSYB WNBZ	1500 1290	Rutland, Vt. Saranac Lake NJY.
0.10-0.00	S	econd	Thursday	3:55-4:10	WNBZ	1290	Saranac Lake, N.Y.
3:00-3:15	S WKAT	econd 1500	Thursday Miami Beach, Fla.		WNBZ WSYR	1290 570	Saranac Lake, N.Y. Syracuse, N.Y.
3:00-3:15	S WKAT	econd 1500	Thursday Miami Beach, Fla.	4:00-4:15	WNBZ WSYR WBRE	1290 570 1310	Saranac Lake, N. JY. Syracuse, N. Y. Wilkes-Barre, Pa.
3:00-3:15 3:05-3:20	S WKAT WJRD	econd 1500 1200	Thursday Miami Beach, Fla. Tuscaloosa, Ala.		WNBZ WSYR WBRE WBTM	1290 570 1310 1370	Saranac Lake, N. JY. Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va.
3:00-3:15 3:05-3:20 3:10-3:35	S WKAT WJRD WSOC	econd 1500 1200 1210	Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C.	4 :00-4:15 4 :05-4:20	WNBZ WSYR WBRE WBTM WNLC	1290 570 1310 1370 1500	Saranac Lake, N. JY. 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	S WKAT WJRD WSOC WAML	econd 1500 1200 1210 1310	Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss.	4:00-4:15	WNBZ WSYR WBRE WBTM	1290 570 1310 1370	Saranac Lake, N. J Y. Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y.
3:00-3:15 3:05-3:20 3:10-3:35 3:15-3:30 3:20-3:35	S WKAT WJRD WSOC WAML WPRA	econd 1500 1200 1210 1310 1370	Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R.	4 :00-4:15 4 :05-4:20	WNBZ WSYR WBRE WBTM WNLC WGBB	1290 570 1310 1370 1500	Saranac Lake, N. J Y. Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, 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	S WKAT WJRD WSOC WAML WPRA WPAX	econd 1500 1200 1210 1310 1370 1210	Thursday Miami Beach, Fla. Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomasville, Ga.	4:00-4:15 4:05-4:20 4:10-4:25	WNBZ WSYR WBRE WBTM WNLC WGBB WHEC	1290 570 1310 1370 1500 1210 1430	Saranac Lake, N.JY. Syraouse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, 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	S WKAT WJRD WSOC WAML WPRA WPAX WQAM	econd 1500 1200 1210 1310 1370 1210 560	Thursday Miami Beach, Fia, 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 4:15-4:30	WNBZ WSYR WBRE WBTM WNLC WGBB WHEC WHEC	1290 570 1310 1370 1500 1210 1430 1200	Saranac Lake, N.JY. 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	S WKAT WJRD WSOC WAML WPRA WPAX WQAM WPRP	econd 1500 1200 1210 1310 1370 1210 560 1420	Thursday Miami Beach, Fia, 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	WNBZ WSYR WBRE WBTM WNLC WGBB WHEC WTHT WMBQ	1290 570 1310 1370 1500 1210 1430 1200 1500	Saranac Lake, N. J Y. Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, 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	S WKAT WJRD WSOC WAML WPRA WPAX WQAM	econd 1500 1200 1210 1310 1370 1210 560	Thursday Miami Beach, Fia, Tuscaloosa, Ala. Charlotte, N. C. Laurel, Miss. Mayaguez, P. R. Thomaaville, 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	WNBZ WSYR WBRE WBTM WNLC WGBB WHEC WTHT WMBQ WRAK	1290 570 1310 1370 1500 1210 1430 1200 1500 1370	Saranac Lake, N. JY . Syracuse, N. Y. Wilkes-Barre, Pa. Danville, Va. New London, Conn. Freeport, N. Y. Rochester, N. Y. Hartford, Conn. Brooklyn, N. Y. Williamsport, Pa.
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3:50-4:05	WGAR	1450	Cleveland, Ohio
	WOLS	1200	Florence, S. C.
3:55-4:10	WCOL	1210	Columbus, Ohio
0100 -110	WLAK	1310	Lakeland, Fla
4:00-4:15	WCAZ	1070	Carthage, Ill.
1.00-1.10			Vicksburg, Miss.
4.05 1.00	WQBC	1360	
4:05-4:20	WJBO	1120	Baton Rouge, La.
	WSMK	1380	Dayton, Ohio
4:10-4:25	WOMT	1210	Manitowoc, Wis.
	WTAL	1310	Tallahassee, Fla.
4:15-4:30	WNEL	1290	San Juan, P. R.
	WOSU	570	Columbus, Ohio
4:20-4:35	WDZ	1020	Tuscola, Ill.
	WMSD	1420	Muscle Shoals, Ala.
4:25-4:40	WGTM	1310	Wilson, N. C.
1.10	WHBU	1210	Anderson, Ind.
4:30-4:45	WJBW	1200	New Orleans, La.
4.00-1.10	WKBN	570	Youngstown, Ohlo
4:35-4:50	WGPC	1420	Albany, Ga.
4.30-4.00		1010	
	WNAD		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.
0100 0110	WBNO	1200	New Orleans, La.
5:05-5:20	KPAC	1260	Port Arthur, Tex.
5:10-5:25	KANS	1210	Wichita, Kans.
0.10-0.20	WROL		Knoxville, Tenn.
5.15 5.90		1310	
5:15-5:30	KMLB	1200	Monroe, La.
* 00 * 0*	KTRH	1290	Houston, Texas
5:20-5:35	KLPM	1240	Minot, N. D.
5:25-5:40	KVSO	1210	Ardmore, Okla.
5:30-5:45	KWLC	1270	Decorab, Iowa
5:35-5:50	KTSM	1310	El l'aso, l'exas
5:40-5:55	KWTN	1210	Watertown, S. D.
5:45-6:00	WLB	1250	Minneapolis, Minn.
5:50-6:05	KOBH	1370	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	Elamath Falls, Ore.
6:15-6:30	KGEZ	1310	Kalispell, Mont.
6:20-6:35	KGVO	1260	Missoula Mont
6:25-6:40	KGY	1210	Missoula, Mont. Olympia, Wash.
6:30-6:45	KXRO		Abordoon Wosh
		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

600	XEOJ	
1080	CMJQ	Camaguey, Cuba.
1230	XEAZ	Zacatecas, Zac.
1320	NEAU	Tijuana, B. Cfa.
1420	KDNT	
	KRIC	Beaumont, Tex. Beaumont Brdestg. Assn.
1500	KPAB	Laredo, Tex. Mervel M. Valentine
	KVNU	Logan, Utah. Cache Valley Brdestg.
		Co.
		FREQUENCY
1305	TGI	Guatemaia City, Guat., from 1510
		LOCATION
620	WELA	Tampa, Fia., from Clearwater
		NETWORK
900	KSEI	Pocatello, Idaho, new NBC
1210	WBAX	
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

3500 to AMATEURS

4000 CT2AJ 4002 Ponta Delgada, Azores (B) 400. 4098 WND (X) Hialeah, Fla. (C). Phones Bermuda. 4107 HCJB Quito, Ecuador. 1000. (B). 'Broadcasting Provincial." Add: Clarence W. Jones, Casilla 691. Hrs: Daily exc. Mon., 7-8:15 a.m.; 11:30 a.m.-2:30 p.m.; 4:45-10:15 p.m. 4110 **** Trans-Western Airlines **** 4123 Southern Airlines KBAY Ogden, Utah. (1 Ogden, Utah. (F) 4135 (F) KBAZ 4178 WOO (X) Ocean Gate, N. J. 20 kw. (SS)4230 HRX4 La Lima, Honduras. (C) (X) Lawrenceville, N. J. 4253 WKF (C) 4273 **RV15** Khabarovsk, U.S.S.R. 20 kw. (TH) Hrs: 4-10 a.m. (19). Hrs: 4-10 a.m., Italian Ships; Phone IAC and WOO; Add: Italian Lines, 1 State St., New York, N. Y. IBEJ S. S. "Conte Rosso" IBGI S. S. "Conte Verde" IBLI S. S. "Conte di Savoia" ICEJ S. S. "Res" 4280 4295 WTDV CharlotteAmalie, Virgin Islands, 250. (Em) St. Croix, V. I. 250. (E St. John, V. I. 250. (Em) WTDW (Em)WTDX 4335 **** United Airlines VFN 4355 Montreal, P. Q. (A). Dominion Skyways, Ltd. S.S. "Normandie." (SS). Works 4390 FNSK Paris. French Lines, Pier 88, Foot of 48th St., NYC. Arlington, Va. Time signals at NAA 9:55 a.m. and 9:55 p.m. S.S. "Normandie." (SS). Works 4410 FNSK WOO. See 4390 kcs. for Add. S. S. "Manhattan." 400. (SS). WIEA Add: Pier 59, North River, NYC 4412 VQJM S. S. 'Monarch of Bermuda.

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	Jap—Japanese
Eng—English	Port—Portugese
Fr—French	Ru-Russian
Ger—German	Sp—Spanish
It—Italian	

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.

		(88). Add: Furness-Bermuda Lines.
4413	111111	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"
		GLRZ S. S. "Aquitania"
		GMBJ S. S. "Empr. of Britain"
		French Ships. Work WOO, Add:
		French Lines, Pler 57, Hudson
		River, NYC.
		FNSM S. S. "Paris" FNTQ S. S. "Ile de France"
		FNTQ S. S. "Ile de France"
		German Ships. Work DAF and WOO. Add: North German
		Lloyd, Pler 42, North River,
		Morton St., NYC.
		DDBRSS ''Berlin''
		DDCP S. S. "Cap Polonio"
		DDFF S. S. "Reilance"
		DDFT S. S. 'Oceana''
		German Ships. Work DAF and
		WOO. Add: Hamburg America
		Lines, Pier 86. North River, W. 46th St., NYC.
		W. 46th St., NYC.
		DHAO S. S. "Hansa"
		DHEY S. S. "Deutschland"
		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"
		DOALS, S. "Europa"
44 20	ZMBJ	T. S. S. ''Awatea.'' 300 w. (SS).
		Add: Union S. S. Co. of New
4400	NOTE	Zealand, Ltd., Auckland.
4430	VQJP	S.S. "Queen of Bermuda." (SS). Works WOO and ZFA, Add:
		Furness-Bermuda Lines,
4436	VDO	Vancouver, B.C.400.(C).Add:
1100		North-West Telephone Co., 768
		Seymour St.

4465	CFA2	Drummondville, P. Q. (C).
		Canadian Marconi Co., Box
		1690, Montreal, P. Q.
4500	CZ5K	Shaboygama, P. Q. (A). Domin-
		ion Skyways, Ltd.
4512	ZFS	Nassau Bahamas (C) Works
5. C		Nassau, Bahamas. (C). Works WNC. Add: Supt. of Telegraphs.
		Central Bay St., Nassau, N. P.
4550	WDN	Central Bay St., Nassau, N. P. (X) Rocky Point, N. Y. (C)
4600	HC2ET	(X) Guayaquil, Ecuador. (B).
		(X) Guayaquil, Ecuador. (B). Int: 12 chimes.
4610	KBAI	Juneau, Alaska. (F)
	KBEN	Juncau, Alaska. (F)
	KBEO	Juneau, Alaska. (F) Juneau, Alaska. (F)
	KBEP KMYA	Detrol Deet "Forester" (F)
	KMYB	Patrol Boat "Forester." (F) Patrol Boat "Ranger 10." (F)
4650	****	Braniff Airlines
4690	****	American Airlines
4736	HJ6ABC	Ibague, Colombia. (B)
4740	****	Southern Airlines
4745	****	Southern Airlines Southern Airlines
4753	WOO	(X) Ocean Gate, N. J. 20 kw.
		(SS)
4755	CFU	Rossland, B. C. (C). Consoli-
		dated Mining & Smelting Co.,
4746		Ltd.
4760	HJ1ABJ	Santa Marta, Colombia. 50w. (B). "La Voz de Santa Marta."
		(B). La voz de Santa Marta. Owner: Julio A. Sanchez T. Hrs:
		11:30 a.m2 p.m.: 5:30-10:30 p.m.
4780	HJIABB	Barranouilla. Colombia. 300w
*****	11011100	Barranquilla. Colombia. 300w. (B). La Voz de Barranq."
		Relays HJ1ABA. Int: 3 chimes.
		Add: Aptdo, 715.
4787	HJ7ABC	Cuauta Colombia 250 m (D)
		"La Voz de Cucuta." Elgin, II. Time signals at 8:55, 9:55 and 10:55 a.m. and 12:55 p.m. daily exc. Sunday. Certoregue, Colombia. (B) Add:
4797	W9XAM	Elgin, Ill. Time signals at 8:55,
		9:55 and 10:55 a.m. and 12:55
	** **	p.m. daily exc. Sunday.
480 0	HJ1ABE	Cartagena, Colombia. (B). Add: Aptdo. 31. Hrs: 7 a.m1:30 p.m.;
4810	YDE2	4-11 p.m. Solo, Java, N.E.1, 100 w. (B).
1010	1 DLL	A NIROM station
4820	GDW	Rugby, Gt. Britain. (C). Works NYCnights Add :G.P.O. (Radio.
		NYCnights Add :G.P.O. (Radio.
		Section), Armour House, St. Martin's le Grand, London EC1
		Martin's le Grand, London EC1
4840	HJ3ABD	Bogota, Colombia. (Barrio Ola- ya). 1 kw. (B). s/o: "Para ti Rio Rita." and nat'i anthem. Add: Colombia Broadcasting,
		ya). 1 kw. (B). s/o: Para ti
		Rio Rita. and nat i anthem.
		Add: Colombia Broadcasting, Aptdo. 509. Hrs: 9 a.m2 p.m.;
		Appag. 505. 115. 9 a.m2 p.m.;
		6 nm-midnight
4860	CVS	6 p.mmidnight.
4860	CYS	6 p.mmidnight. Schumaker, Ont. (A). Dominion
4860	CZ5K	6 p.mmidnight. Schumaker, Ont. (A). Dominion
4860	CZ5K CZ5L	6 p.mmidnight. Schumaker, Ont. (A). Dominion
4860	CZ5K CZ5L CZ5M	6 p.mmidnight. Schumaker, Ont. (A). Dominion
4860	CZ5K CZ5L CZ5M CZ9U	6 p.mmidnight. Schumaker, Ont. (A). Dominion Skyways, Ltd. Shaboygama, P. Q. (A). D.S.L. Mud Lake, Ont. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. St. Felicien, P. Q. (A). D.S.L.
4860	CZ5K CZ5L CZ5M	6 p.mmidnight. Schumaker, Ont. (A). Dominion Skyways, Ltd. Shaboygamä, P. Q. (A). D.S.L. Mud Lake, Ont. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. St. Fellcien, P. Q. (A). D.S.L. Northwest River, Labrador.
4860	CZ5K CZ5L CZ5M CZ9U	 p.mmidnight. Schumaker, Ont. (A). Dominion Skyways, Ltd. Shaboygama, P. Q. (A). D.S.L. Mud Lake, Ont. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. St. Felicien, P. Q. (A). D.S.L. Northwest River, Labrador. (A). Newfoundiand Skyways,
	CZ5K CZ5L CZ5M CZ9U VOWM	 p.mmidnight. Schumaker, Ont. (A). Dominion Skyways, Ltd. Shaboygama, P. Q. (A). D.S.L. Mud Lake, Ont. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. St. Felicien, P. Q. (A). D.S.L. Northwest River, Labrador, (A). Newfoundland Skyways, Ltd.
4860 4865	CZ5K CZ5L CZ5M CZ9U	 p.mmidnight. Schumaker, Ont. (A). Dominion Skyways, Ltd. Shaboygama, P. Q. (A). D.S.L. Mud Lake, Ont. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. St. Felicien, P. Q. (A). D.S.L. Northwest River, Labrador, (A). Newfoundland Skyways, Ltd.
	CZ5K CZ5L CZ5M CZ9U VOWM	6 p.mmidnight. Schumaker, Ont. (A). Dominion Skyways, Ltd. Shaboygama, P. Q. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. St. Felicien, P. Q. (A). D.S.L. Northwest River, Labrador. (A). Newfoundland Skyways, Ltd. Vancouver, B. C. 400 w. (C). North-West Telephone Co., 768 Common: St.
4865	CZ5K CZ5L CZ5M CZ9U VOWM VOWM	6 p.mmidnight. Schumaker, Ont. (A). Dominion Skyways, Ltd. Shaboygama, P. Q. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. St. Felicien, P. Q. (A). D.S.L. Northwest River, Labrador. (A). Newfoundland Skyways, Ltd. Vancouver, B. C. 400 w. (C). North-West Telephone Co., 768 Common: St.
	CZ5K CZ5L CZ5M CZ9U VOWM	6 p.mmidnight. Schumaker, Ont. (A). Dominion Skyways, Ltd. Shaboygama, P. Q. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. St. Felicien, P. Q. (A). D.S.L. Northwest River, Labrador. (A). Newfoundland Skyways, Ltd. Vancouver, B. C. 400 w. (C). North-West Telephone Co., 768 Common: St.
4865	CZ5K CZ5L CZ5M CZ9U VOWM VOWM	6 p.mmidnight. Schumaker, Ont. (A). Dominion Skyways, Lid. Shaboygama, P. Q. (A). D.S.L. Mud Lake, Ont. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. St. Felleien, P. Q. (A). D.S.L. Northwest River, Labrador. (A). Newfoundland Skyways, Ltd. Vancouver, B. C. 400 w. (C). North-West Telephone Co., 768 Seymour St. Medellin, Colombia. 2500 w. (B). "Emisora Philco." Relays HIAA BO. Hrss. 6-11 p.m.
4865	CZ5K CZ5L CZ5M CZ9U VOWM VDO HJ4ABP	6 p.mmidnight. Schumaker, Ont. (A). Dominion Skyways, Lid. Shaboygama, P. Q. (A). D.S.L. Mud Lake, Ont. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. St. Felleien, P. Q. (A). D.S.L. Northwest River, Labrador. (A). Newfoundland Skyways, Ltd. Vancouver, B. C. 400 w. (C). North-West Telephone Co., 768 Seymour St. Medellin, Colombia. 2500 w. (B). "Emisora Philco." Relays HIAA BO. Hrss. 6-11 p.m.
48 65 4 880	CZ5K CZ5L CZ5M CZ9U VOWM VDO HJ4ABP	6 p.mmidnight. Schumaker, Ont. (A). Dominion Skyways, Lid. Shaboygama, P. Q. (A). D.S.L. Mud Lake, Ont. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. St. Felleien, P. Q. (A). D.S.L. Northwest River, Labrador. (A). Newfoundland Skyways, Ltd. Vancouver, B. C. 400 w. (C). North-West Telephone Co., 768 Seymour St. Medellin, Colombia. 2500 w. (B). "Emisora Philco." Relays HIAA BO. Hrss. 6-11 p.m.
48 65 4 880	CZ5K CZ5L CZ5M CZ9U VOWM VDO HJ4ABP	6 p.mmidnight. Schumaker, Ont. (A). Dominion Skyways, Lid. Shaboygama, P. Q. (A). D.S.L. Nud Lake, Ont. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. St. Felicien, P. Q. (A). D.S.L. Northwest River, Labrador. (A). Newfoundiand Skyways, Ltd. Vancouver, B. C. 400 w. (C). North-West Telephone Co., 768 Seymour St. Medellin, Colombia. 2500 w. (B). "Emisora Phileo." Relays HJ4ABQ. Hrs: 6-11 p.m. Bogota, Colombia. 1200 w. (B). "La Voz de la Victor." s/o: "Russian Luilaby." Add: Alma-
48 65 4 880	CZ5K CZ5L CZ5M CZ9U VOWM VDO HJ4ABP	6 p.mmidnight. 8chumaker, Ont. (A). Dominion Skyways, Ltd. Schumaker, Ont. (A). D.S.L. Shaboygama, P. Q. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. Northwest River, Labrador. (A). Newfoundland Skyways, Ltd. Vancouver, B. C. 400 w. (C). North-West Telephone Co., 768 Seymour St. Medellin, Colombia. 2500 w. (B). "Emisora Phileo." Relays HJ4ABQ. Hrs: 6-11 p.m. Bogota, Colombia. 1200 w. (B). "La Voz de la Victor." s/o: "Russian Luilaby." Add: Almacenes Victor, Aptdo 565. Hrs:
4865 4880 4900	CZ5K CZ5L CZ5M CZ9U VOWM VOWM HJ4AHP HJ3ABH	6 p.mmidnight. Schumaker, Ont. (A). Dominion Skyways, Ltd. Shaboygama, P. Q. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. St. Felicien, P. Q. (A). D.S.L. Northwest River, Labrador. (A). Newfoundland Skyways, Ltd. Vancouver, B. C. 400 w. (C). North-West Telephone Co., 768 Seymour St. Medellin, Colombia. 2500 w. (B). "Emisora Philco." Relays HJ4ABQ, Hrs: 6-11 p.m. Bogota, Colombia. 1200 w. (B). "La Voz de la Vietor." s/o: "Russian Lullaby." Add: Alma- cenes Victor, Aptdo 565. Hrs: 6-11 p.m.
4865 4880 4900 4918	CZ5K CZ5L CZ5M CZ9U VOWM VDO HJ4ABP HJ3ABH	 6 p.mmidnight. 6 p.mmidnight. Schumaker, Ont. (A). Dominion Skyways, Lid. Shaboygamä, P.Q. (A). D.S.L. Nud Lake, Ont. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. Northwest River, Labrador. (A). Newfoundiand Skyways, Ltd. Vancouver, B. C. 400 w. (C). North-West Telephone Co., 768 Seymour St. Medellin, Colombia. 2500 w. (B). "Emisora Phileo." Relays HJ4ABQ. Hrs: 6-11 p.m. Bogota, Colombia. 1200 w. (B). "La Voz de la Victor." s/o: "Russian Luilaby." Add: Almacenes Victor, Aptdo 565. Hrs: 6-11 p.m.
4865 4880 4900 4918 4938	CZ5K CZ5L CZ5U CZ9U VOWM V DO HJ4ABP HJ3ABH	6 p.mmidnight. Schumaker, Ont. (A). Dominion Skyways, Lid. Shaboygama, P. Q. (A). D.S.L. Nud Lake, Ont. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. St. Felleien, P. Q. (A). D.S.L. Northwest River, Labrador. (A). Newfoundland Skyways, Ltd. Vancouver, B. C. 400 w. (C). North-West Telephone Co., 768 Seymour St. Medellin, Colombia. 2500 w. (B). "Emisora Phileo." Relays HI4ABQ. Hrs: 6-11 p.m. Bogota, Colombia. 1200 w. (B). "La Voz de la Victor." s/o: "Russian Luliaby." Add: Alma- cenes Victor, Aptdo 565. Hrs: 6-11 p.m.
4865 4880 4900 4918 4938 4948	CZ5K CZ5L CZ5U CZ9U VOWM VDO HJ4ABP HJ3ABH	6 p.mmidnight. Schumaker, Ont. (A). Dominion Skyways, Lid. Shaboygama, P. Q. (A). D.S.L. Nud Lake, Ont. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. St. Felleien, P. Q. (A). D.S.L. Northwest River, Labrador. (A). Newfoundland Skyways, Ltd. Vancouver, B. C. 400 w. (C). North-West Telephone Co., 768 Seymour St. Medellin, Colombia. 2500 w. (B). "Emisora Phileo." Relays HI4ABQ. Hrs: 6-11 p.m. Bogota, Colombia. 1200 w. (B). "La Voz de la Victor." s/o: "Russian Luliaby." Add: Alma- cenes Victor, Aptdo 565. Hrs: 6-11 p.m.
4865 4580 4900 4918 4938 4938 4953	CZ5K CZ5L CZ5L CZ9U VOWM V DO HJ4ABP HJ3ABH	6 p.mmidnight. Schumaker, Ont. (A). Dominion Skyways, Lid. Shaboygama, P. Q. (A). D.S.L. Nud Lake, Ont. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. St. Felleien, P. Q. (A). D.S.L. Northwest River, Labrador. (A). Newfoundland Skyways, Ltd. Vancouver, B. C. 400 w. (C). North-West Telephone Co., 768 Seymour St. Medellin, Colombia. 2500 w. (B). "Emisora Phileo." Relays HI4ABQ. Hrs: 6-11 p.m. Bogota, Colombia. 1200 w. (B). "La Voz de la Victor." s/o: "Russian Luliaby." Add: Alma- cenes Victor, Aptdo 565. Hrs: 6-11 p.m.
4865 4880 4900 4918 4938 4948 4948 4958	CZ5K CZ5L CZ5U VOWM VDO HJ4ABP HJ3ABH	6 p.mmidnight. Schumaker, Ont. (A). Dominion Skyways, Lid. Shaboygama, P. Q. (A). D.S.L. Nud Lake, Ont. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. St. Felleien, P. Q. (A). D.S.L. Northwest River, Labrador. (A). Newfoundland Skyways, Ltd. Vancouver, B. C. 400 w. (C). North-West Telephone Co., 768 Seymour St. Medellin, Colombia. 2500 w. (B). "Emisora Phileo." Relays HI4ABQ. Hrs: 6-11 p.m. Bogota, Colombia. 1200 w. (B). "La Voz de la Victor." s/o: "Russian Luliaby." Add: Alma- cenes Victor, Aptdo 565. Hrs: 6-11 p.m.
4865 4580 4900 4918 4938 4938 4953	CZ5K CZ5L CZ5U CZ9U VOWM VDO HJ4ABP HJ3ABH	 6 p.mmidnight. 6 p.mmidnight. Schumaker, Ont. (A). Dominion Skyways, Lid. Shaboygamä, P.Q. (A). D.S.L. Nud Lake, Ont. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. Rouyn, P. Q. (A). D.S.L. Northwest River, Labrador. (A). Newfoundiand Skyways, Ltd. Vancouver, B. C. 400 w. (C). North-West Telephone Co., 768 Seymour St. Medellin, Colombia. 2500 w. (B). "Emisora Phileo." Relays HJ4ABQ. Hrs: 6-11 p.m. Bogota, Colombia. 1200 w. (B). "La Voz de la Victor." s/o: "Russian Luilaby." Add: Almacenes Victor, Aptdo 565. Hrs: 6-11 p.m.

KAMX	Utopia Creek, Aaa. 40 w. (C).
KANR	L. McGee. Hrs: days Kalskag Aan 20 w (C) Fred
	Kalskag, Aaa. 20 w. (C). Fred H. Whiteher. Hrs: days Alatna, Aaa. 20 w. (C). Sam Dubin. Hrs: days
KASI	Alatna, Aaa. 20 w. (C). Sam
	Dubin. Hrs: days Folger, Aaa. 40 w. (C). Odin
	Folger, Aaa. 40 w. (C). Odin Strandberg.
****	Pan American Airways
****	Pacific Alaska Airways
YAH KADW	Kabul, Afghanistan (C) Umnak, Alaska. (C)
KAEW KAJJ	Atka, Aaa. (C)
KAQF	Unalaska, Aaa. (C)
****	Southern Airlines
HRL6	Southern Airlines La Lima, Honduras. (C)
**** ****	Pacific Alaska Airways Pan American Airways
****	Pan American Airways Northwort tirlinou
****	Northwest Airlines Pan American Airways
PMY	Bandoeng, Java, N.E.I. 450 w.
	Bandoeng, Java, N.E.I. 450 w. (B). Add: Bandoengsche Radio
	Vereeniging. Hrs: 5:30-10 a.m.
XTL	Hankow, China. (C)
<i>T15HH ****</i>	San Ramon, Costa Rica. 200 w.
****	United Air Lines United Airlines
****	United Airlines
****	American Airlines
****	American Airlines
**** ****	American Airlines Southern Airlines
****	Trans Western Airlines
****	United Airlines
****	Trans Western Airlines
****	Braniff Airlines Pacific Alaska Airways Trans Western Airlines
**** ****	Pacific Alaska Airways
****	Trans Western Airlines
TGS	Southern Airlines Guatemala City Guat 200 tr (B)
JVV	Guatemala City, Guat. 200 w. (B) Nazaki, Japan. 10kw. (C). Add:
	Kokusai Denwa Kaisha, Osaka
	Kokusal Denwa Kaisha, Osaka Bldg., Tokyo Quito, Ecuador. (B). "El Palomar" Add: J. Leonardo Ponce, Aptdo. 664. Hrs: Sat. 9-11 p.m.
HC1PM	Quito, Ecuador. (B). "El
	Ponce Antdo 664 Hrs Sat
	9-11 p.m.
YV2RA	San Cristobal, Venez, 1 kw. (B). "La Voz del Tachira" or "La Emisora de Fidelidad Real."
	"La Voz del Tachira" or "La
	Relays YV1RB. s/o: "El Capi-
	ten Merch'' Add: Antdo 37
	$Hrs \cdot 11 \cdot 30 = m - 12 \cdot 30 = m \cdot 5 \cdot 45$.
	9:30 p.m.
YNOP	Managua, Nicaragua. (B).
	"Radiodifusora Bayer." Hrs:
	8-9:30 p.m. Unused USA stamps for verification.
TG25	Mobile in Guatemala. (C)
JVU	Nazaki, Japan. 10 kw. (C).
	Add: JVV on 5730 kcs.
YV5RC	Caracas, Venez. 1 kw. (B).
	Mobile in Guatemala. (C) Mobile in Guatemala. (C) Nazaki, Japan. 10 kw. (C). Add: JVV on 5730 kcs. Caracas, Venez. 1 kw. (B). "Radio Caracas." Relays YVSRA. 8/0: "March IBC." Add. Avde. UWW. Her. Stuc.
	Add: Aptdo 2009. Hrs: Sun.,
	,
-	

5000 TFL

5003 HCT

5025 ZFA

5033 WDI

5043 ****

5077 WCN 5123 ****

5138 KALY

5165

5200

5207

5310 5330

5375

5378

5405

5415

5480

5500

56**6**3 5673

5683 5693

5708

5710 5730 5735

5755

5758

5770

5790

5800

wwv

Reykjavik, Iceland

Guayaquil, Ecuador.

"Radio Telefonica"

Braniff Airlines

United Airlines

 (\mathbf{C})

 (\mathbf{C})

Beltsville, Md. 1 kw. Standard frequency transmissions Tues., Wed., Fri., 2:30-3:30 p.m. Add: Nat'l Bureau of Standards, Washington, D. C.

(X) Hamilton, Bermuda, 1500 w.

(X) Ocean Gate, N. J. 20 kw.

(X) Lawrenceville, N. J. (C)

R. B. Julian. Hrs: days

Egavik, Alaska. 25 w. (C).

(B).

		8:30-11:30 a.m.; 3:30-9:30 p.m. Weekdays, 6:30 a.m10:30 p.m.
581.3	TIGPH2	San Jose, Costa Rica
5820		
5820	CLC	Santiago, Chile. (La Granja). Add: Cia. Internacional de Radio, Casilla 16-D.
5825	TIGPH	and TIXGP-3 San Jose, Costa
0020	i idi n	Rica. (B). "Alma Tica." Add: Aptdo 800.
5830	TDD	Shinkio, Manchukuo. 20 kw. (C)
		Manchukuo Telephone & Tele- graph Co
58 50	WOB	(X) Lawrenceville, N. J. (C) Maracaibo, Venez. (Las Delici- as). 300 w. (B). "Ecos del Zulia." Relays YV1RA. Int; gong and xylophone. s/o: "Strike Up the Band." Add: Aptdo. 37. Hrs: Sun., 8:30 a.m 2 p.m.; 3:30-9:30 p.m. Weekdays 5:45.0:45. am : 10:30 a.m.; 145.
	YVIRB	Maracaibo, Venez. (Las Delici-
		as). 300 w. (B). "Ecos del
		Zulia." Relays YV1RA. Int:
		gong and xylophone. s/o:
		Aptdo 27 Uno Sun S20 a m
		2 n m 13:30-9:30 p m Weekdays
		5:45-9:45 a.m.; 10:30 a.m1:45
		p.m.; 3:30-10:45 p.m.
5855	HIIJ	San Pedro de Macoris, D. R. 40
		w. (B) Add: Fausto M. Donas-
		torg, Aptdo. 204.
5875	HRN	Tegucigalpa, Honduras, 500 w.
		(B). "La Voz de Honduras."
		Int: notes from nat'l anthem.
		s/o: "Goodnight Waltz." Ann:
		Tegucigalpa, Honduras. 500 w. (B). "La Voz de Honduras." Int: notes from nat'l anthem. s/o: "Goodnight Waltz." Ann: Eng., Sp. Hrs: 7-10:30 p.m.
5880	IUA	Addis Ababa, Ethiopia. (C)
	ZEA	Salisbury, Southern Rhodesia. (C). Add: Box 792, G.P.O.
		(C). Add: Box 792, G.P.O.
5885	HI9B	Santjago de los Caballeros, D. R. 200 w. (B). "Broadcasting Hotel Mercedes." s/o: Nat'l anthem. Add: Aptdo 95. Hrs: 11:45 a.m
		Margados '' s/o: Nat'l anthem
		Add: Antdo 95 Hrs: 11:45 a m
		2:15 p.m.; 4:45-7:45 p.m.
5888	****	American Airlines
	****	Braniff Airlines North West Airlines
5890	**** JIC	North West Airlines
9990	JIC	Taihoku, Taiwan. (C) Satgon, French Indo-China. (B) Berguisimeto Vanoz (B) ''I a
5895	YV3RA	Salgon, French Indo-China. (B) Barquisimeto, Venez. (B), "La
		Voz de Lara." Relays YV3RB.
		Hrs: 6-10 p.m.
5 90 0	ZNB	Satyon, French Indo-Cinida. (B) Barquisimeto, Venez. (B). "La Voz de Lara." Relays YV3RB. Hrs: 6-10 p.m. Mafeking, Bechuanaland. 250 w.
5905	TILS	(C). 6-7 a.m.; 1-2:30 p.m. San Jose, Costa Rica. (B). Add:
0.00	111.65	Aptdo, 3
5913	YV4RH	Aptdo. 3 Valencia, Venez. (B). "Radio Valencia." Relays YV4RE. H7s:
		Valencia." Relays YV4RE. HTS:
	******	5 p.m1 a.m.
5925	HH2S	Port-au-Prince, Haiti. (B). Add: Societe Haltienne de Radio-
		diffusion, Bolte Postal 103.
		Hrs: 7-10 p.m.
5935	YV1RL	Maracaibo, Venez. 300 w. (B).
		"Radio Popular". Relays
		YVIRK. s/o: "National Em-
		VVIRK. s/o: "National Em- blem March," Ann: Eng. Sp. Add: Sr. Jose A. Higuera M,
		Antdo 247 Hrs: 5-10:30 n m.
5940	PJC1	Aptdo. 247. Hrs: 5-10:30 p.m. Willemstad, Curacao, Nether- land Antilles. 150 w. (B). "Ra- dio Curom." Add: Curacaosobe
		land Antilles. 150 w. (B). "Ra-
		dio Curom." Add: Curacaosche
		Radio vereenging, Emmastad.
5945	TG2X	Hrs: 6:35-8:35 p.m. Guatemala City, Guat. 200 w.
0010	10231	(B). "Policia Nacional." Add:
		Ministerio de Fomento. Verifies
		FREE.
5969	HVJ	FREE. Vatican City. 15 kw. (B). Int: ticking of clock. Ann: "Lau-
		ticking of clock. Ann: "Lau- datur Jesus Christus." Add:
		datur Jesus Christus." Add: Pontificia Accademia Della
		datur Jesus Christus." Add: Pontificia Accademia Della Scienze, Roma-Castina Pio IV, Shinkio, Manchukuo. (C),
5970	TDF	Shinkio, Manchukuo. (C).
		Manchukuo Telegraph & Tele-
		phone Co.

- 5975 OAX4P Huancayo, Peru. 250 w. (B). "Radio Andina Junin." Add: J. Alberto Maduano, Cuzco 25.
- 5997 CS2WD Lisbon, Portugal. (B). "Radio Renascena."
- 6000 CXA2 Montevideo, Uruguay. (Sayago). 5 kw. (B). Add: Cia. de Radiopublicidad Continental, J. C. Gomez 1431. Hrs: 10 a.m.-10 p.m.
 - RV59 Moscow, U.S.R.
 XEBT Mexico City, D. F. 500 w. (B). Int: cuckoo. s/o: "Liebestraume." Add: El Buen Tono, S. A., Aptdo 79-44. Hrs: 10 a.m.midut.
 - . Tananarive, Madagascar
 - Alderney, Channel Islands. Add: Alderney Radio, Ltd.
- 6005 CFCX Montreal, P. Q. 75 w. (B). Relays CFCF. Add: Canadian Marconi Co., Ltd., 1231 St. Catherine St., Montreal. Hrs: 7 a.m.-midnight. HP5K Colon Panama. (B). "La Voz
 - 7 a.m.-midnight.
 Colon, Panama. (B). "La Voz de la Victor." Add: Aptdo 33. Hrs: 6-11 p.m.
 - VE9DN Montreal, P. Q. (Drummondrelle). 6 kw. (B). Relays CFCP. Add; See CFCN above. XZ1GY Rangoon, Burma. Add: 15th
 - XZ1GY Rangoon, Burma. Add: 15th Mile Prome Road.
- 6007 ZRH Pretoria, Union of So. Africa. (Roberts Heights). 5 kw. (B). Opens: bugle call. Ann "Johannesburg calling." Add: So. African Brdestg. Corp., Box 4559, Johannesburg. Hrs. Sat. 10 a.m.4:45 p.m. Sun. 8 a.m.noon; 12:15-3:15 p.m. Other days 10 a.m.4 p.m.
- 6010 CJCX Sydney, N.S. i kw. (B). Relays CJCB. Add: Eastern Broadcasters, Ltd., Radio Bidg. COCO Hayana, Cuba, 2500 w. (B).
 - Havana, Cuba. 2500 w. (B). Relays CMCK. Add: Luis Casas R., Box 98. Hrs: 4-10 p.m.
 Prague, Czechoslovakia. (Pode-
 - OLR2A Prague, Czechoslovakia, (Podebrady). 35 kw. (B).
 PRA8 Reclfe (Pernambuco) Brazil. 5 kw. (B). "A Vox do Norte." Int: time signal at noon and 7
 - Kw. (B). "A Vox do Norte."
 Int: time signal at noon and 7
 p.m. Brazil Time. s/o: Natilanthem. Ann: Eng., Port. Add: Radio Club do Pernambuco, Avenida Cruz Cabuga 304. Hrs: 9 a.m.-noon; 1-3 p.m.; 4-9 p.m.
- 6015 H13U Santiago de los Caballeros, D. R. 125 w. (B). "La Voz del Comercio." s/o: "Maria la O" on organ, and nat'l anthem. Add; Moises Franco y Franco. Aptdo 23. Hrs: 7:15-8:45 a.m.; 11:45 a.m.-1:45 p.m.; 4:45-6:45 p.m.
 - HJ3ABX Bogota, Colombia, 1 kw. (B). "La Voz de Colombia." Int: notes from nat'l anthem. s/o: "Indian Love Call." Add: Aptdo 2665. Hrs: Sun., noon-I:30 p.m.; 6-11 p.m. Weekdays, I:30 a.m.-2 p.m.; 5:30-11 p.m., XEWI Mexico City, D. F. 400 w. (B). Add: Institucion Mundial A

1:30 p.m.; 5-11 p.m., Weekdays,
10:30 a.m.-2 p.m.; 5:30-11 p.m.,
XEWI Mexico City, D. F. 400 w. (B),
Add: Institucion Mundial de
la V. I., Mina 56.
6020 DJC Berlin, Germany, (Zeesen), 50
kw. (B). Int: music box tune
(Ueb' immer Treu und Redlichkeit-Ever be true and honest),
s/o: "Horst Wessel Lied" and

6022	XEUW	Reichs - Rundfunkgesellschaft, Haus des Rundfunk, Masuren- allee, Berlin-Charlottenburg 9. Hrs: 10:40 a.m12:30 p.m. Veraeruz; Ver. 20 w. (B). DRIFTS, Verlifes tor 3c USA stamp. "El Eco de Sotavento desde Veracruz." s/o: "La Colordium !!" Add. Av. Info
6030	HP5B	 stamp. El Eco de Solvento desde Véracruz." s'o: "La Golondrina." Add: Av. Independencia 98. Hrs: s a.mmidnt. Panama City, Panama. 100 w. (B). "Estacion Radiodifusora Miramar." Add: Aptdo 910.
	OLR2B	Hrs: 5-10 p.m. Prague, Czecho, (Podebrady).
	VE9BJ	35 kw. (B) St. John, N. B. 50 w. (B). Add: N. B. Brdestg. Co., Ltd., Ad-
	XEBQ	miral Beatty Hotel. Mazallan. Sin. 100 w. (B). "La Voz del Pactfico." Int: 4 chimes. s/o: "Luxemburg March." Add:
6040	WIXAL	Aptdo 95. Boston, Mass. 20 kw. (B). "Dedicated to Enlightenment." Add: Educational Director, Uni-
	$W_4 X B$	Miant, Fla. 5 kw. (B). Relays WIOD.
	YDA	Tandiong Prick, Java, N.E.I.
		10 kw. (B). s/o: "End of a Perfect Day." Paris, France. (Essarts). (B). "Radio Coloniale."
60 42	HJIABG	"Radio Coloniale." Barranquilla, Colombia. 150 w. (B). "Emisora Atlantico." Add: Aptdo 445. Hrs: 11 a.m11 p.m.
6044	ZP14	Aptdo 445. Hrs: 11 a.m11 p.m. Villarica, Paraguay. Hrs: 5-6
6 04 5	XETW	p.m. Tampico, Tams. 100 w. Relays
6 050	GSA	NEFW, Add: Floresy Martinez, Francisco I, Madero 204 Ote, Hrs: Sun. 10 a.m4 p.m. Week- days 10 a.m10 p.m. London, Gt. Britaln. (Daven- try). 20 kw. (H) "A for Aerial." Int: Bow Bells: time signal from Greenwich on even hours: Big Ben strikes hours, irregularly, preceded by Westminster Chimes. s/o: "God Save The King." Add: British Broadcast-
	НЈ6 АВА	ing Corp., London W1. Pereira, Colombia. (B). La
60 60	VQ7LO	Voz de Pereira." Nairobi, Kenya. (B). Cable & Wireless Itd. Box 777
	W3XAU	Philadelphia, Pa. (Newtown Square). 10 kw. (B). Relays
	W8XAL	 King, '' Add: British Broadcast- ing Corp., London W1. Pereira, Colombia, (B), ''La Yoz de Pereira, '' Nairobi, Kenya. (B). Cable & Wireless, Ltd., Box 777. Philadelphia, Pa. (Newtown Square). 10 kw. (B). Relays CBS-WCAU. Add: WCAU Brdestg. Co., 1622 Chestnut St. Hrs: 8-11 p.m. Cincinnati, Ohio. (Mason). 10 kw. (B). Relays NBC-WLW. Add: Corp., 1329 Arlington St. Hrs: Daily 11 p.m 2 a.m. Sun., 8 a.m8 p.m. Week- days, 6 a.m3 p.m.
6065	HP5F SBO	Colon Panama (B)
	XEXR	Stockholm, Sweden. (Motala). 500 w. (B). s/o: Nat'l anthem. Add: Telegrafverket Tjanste- brev Nr. 5. Hrs: 1:30-5 p.m. Mexico City, D. F. 100 w. (B). Secretaria de Educacion Pub- lica, Argentina y L. G. Obregon
6079	CFRX	Tenento Ont 1 km (B) Relays
	HJ3ABF	CFRB. Add: Rogers Radio Brdestg. Co., Ltd., 37 Bloor St., W. Hrs: 10 a.m11 p.m. Bogota, Colombia. 50 w. (B). "La Voz de Bogota." Some-

	V P3MR	times announces as HKF. s/o: "Song of the Islands." Hrs: 7-10:30 p.m. (B). "The Volce of Guiana. 150 w. (B). "The Volce of Guiana." Add: 16 Robb and Hineks Sts. Hrs: 7:45-10:15 a.m.; 4:45-8:45
	YVIRD	p.m. Maracaibo, Venez. (B). "Radio difusora Maracaibo." Relays YV1RE. Hrs: 7 p.mmidnt.
6072	OER2	Vienna, Austria. 1500 w. (B).
6075	XECU	Guhanajara, Jai. 250 W. (B). "Estaclon del Viajero del Mun- do." Opens: "Humoresque" on organ. Int: train whistle. s/o: "Adios, Mariquita Linda." Add: Union Nacional de Industria y
6 08 0	DJM	Comercio, Av. Hidalgo 579. Hrs: 9 a.m11 p.m. Berlin, Germany. (Zeesen). 50 kw. (B). For particulars see DJC on 6020 kes.
	VE9CS	Vancouver, B. C. 10 w. (B), Relays CKFC, Add: Standard Brdestg. System, Ltd., 1001 Stock Exchange Bidg. Hrs:
	W9XAA	2 p.minidat. Chicago, Ill. 20 kw. (B). "The Voice of Labor." Relays NBC- WCFL. s/o: in Eng., Fr., Ger., Norwegian, Polish, Ru, Sp. Add: Chicago Federation of Labor, 666 Lake Shore Drive. Merico City, D. F. Penang, Federated Malay States Lima, Peru. 10 kw. (B). "Radio Nacional." Relays OAN4A. s/o: Nat'l anthem. Add: Peruvian
	XEWW	666 Lake Shore Drive. Mexico City, D. F.
60 82	2HJ OA X4Z	Penang, Federated Malay States Lima, Peru. 10 kw. (B). "Radio Nacional." Relays OA X4A, s/o: Nat'l anthem. Add: Peruvian Gov't., Av. Petit-Thouars 447. Hrs: 7-11:30 p.m.
6085	HJ5ABD	Cali, Colombia. (B). "La Voz del Valle." s/o: "Goodnight Waltz." Add: Aptdo. 270. Hrs: Mon., Wed., Fri., 7 a.m10:30 p.m.
	XECU ZHO	Guadalajara, Jal. Assigned 6075 Singapore, St. Settlements.
6 090	CRCX	Toronto, Ont. (Bowmanville). 1 kw. (B). Relays CBC. Add: Canadian Brdestg. Corp., 805 Davenport Rd. Hrs: 7:45 a.m
	нјбавс	5 p.m. Ibague, Colombia. "Ecos de Combeima."
	XEBF	Jalapa, Ver. 100 w. (B). Add: Pedro Coronel Aburto, Insur- gentes 34. Hrs: 10 a.m11 p.m. Hong Kong. 2400 w. Add: Bor 200
6095	ZBW2 JZH	Hong Kong, 2400 w. Add: Box 200 Nazaki Japan (C)
0000	ZGE	Nazaki, Japan. (C). Kuala Lampur, Fed. Malay States. (B).
6097	ZRJ	Johannesburg, Union of So. Africa. (Maralsburg), 200 w. (B). Opens: bugle call. Ann: "Johan- nesburg calling." Add: South African Brdestg. Corp., Box
	ZRK	4559, Johannesburg. Cape Town, Union of So. Africa. (Klipheuvel). 5 kw. (B). See ZRJ above for more data. Hrs: Sūn. noon-3 p.m. Weekdays, peop.4 n.m.
6100	W3XAL	New York, N. Y. (Bound Brook, N. J.). 35 kw. (B). Ann: Eng., Fr., Ger., It., Sp. s/o: "Star Spangied Banner." Add: NBC, Rockefeller Plaza, NYC. Hrs: Sat., Sun. 6 p.m1 a.m. Other days. 7 p.m1 a.m.

	W9XF	Chicago, Ill. (Downers Grove). 10 kw. (B). Relays NBC- WENR. S/o: Eng. Pr. Ger. It. Jap. Ru, Sp. Swedish. Add: Audience Mail Dept., NBC, Inc., Merchandise Mart. Hrs: Sat. 1:05-2 a.m.; 4-5:30 p.m. Sun. 1-5:45 p.m. Other days 1:05-2 a.m.; 4-5:45 p.m.
	YUA	Beigrade, Jugoslavia. 1 kw. "Radio Beograd." Add: Bureau Central de Presse, Poste Emet- teur a Ondes Courtes. Hrs:
6108	HJ6ABB	noon-5 p.m. Manizales, Colombia. "Radio Manizales." Hrs: 6 p.mmidnt.
6110	GSL	"L for Liberty." See GSA 6050 kcs for more data. Hrs: 9:20-
	VE9 BA	11:20 p.m. Ottawa Ont 100 m Partable
	VUC XEGW	Calcuta, India. (B). Mexico City, D. F. 250 w. (B). Add: Jose G. Garza Fox, San
		Add: Jose G. Carza Fox, San Juan de Letran 31.
6115	OLR2C XEUZ	Prague, Czecho. 35 kw. (B). Merico City, D. F. Asstaned 6130
61 2 0	W2XE	New York, N. Y. (Wayne, N. J.). 10 kw (B) Belays CBS-WABC
		Aud. Jose C. Carza Pox, Sall Juan de Letran 31. Prazue, Czecho. 35 kw. (B). Mezico City, D. F. Assigned 6130 New York, N. Y. (Wayne, N. J.). 10 kw. (B). Relays CBS-WABC. s/o: "Star Spangied Banner." Add: Columbia Brdestz. Sys., 485 Madison Ave. NYC.
	YDA5	Aud: Columbia Bracste. Sys., 485 Madison Ave., NYC. Bandoeng, Java, N.E.I. 1500 w. (B). Add: N. V. Nederlandsche Indische Radio Omroep Moat- chappij, Tegallegah 23. Bogota, Colombia. Assigned 6015 Areguiga, Peru. 100 v. (B).
61 22	HJSABX	chappij, Tegallegah 23. Bogota, Colombia Assigned 6015
	0A X6A	"Radio Areguipa." Add: Eduado L. Caceres, Munoz Najar 141.
6125	HP5H	L. Caceres, Munoz Najar 141. Panama City, Panama. (B).
6128	OAX7A	Panama City, Panama. (B). Cuzco, Peru. 109 w. Add: Car- los Lizarraga Fisher, Montero 43 Havana, Cuba. 350 w. (B).
6130	COCD	Havana, Cuba. 350 w. (B). "La Voz del Aire." Relays CMCD. Int: 4 chimes. s'o; "Goodnight Waltz." Add: Hotei Palace, Calle 25 y G, Vedado. Hrs: 5 p.m1 s.m. Oslo, Norway (Jeloy). (B). Hrs: 1-20 s w. 5-20 s.w.
	LKJ	Oslo, Norway (Jeloy), (B). Hrs:
	VE9HX	11:30 a.m5:30 p.m. Halifax, N.S. 500 w. (B). Relays CBC-CHNS. Add: Maritime Brdestg. Co., Ltd., Box 998.
	XEUZ	Hrs: 5-11 p.m. Mexico City, D. F. 100 w. (B). Add: Partido Nacional Revo- lucionario. Add: 5 de Mayo 21.
6132 6133	VP3BG XEXA	Hers: 10 a.m., 2 a.m. Georgetown, Br. Guiana. (B), Mexico City, D. F. 100 w. (B), Add: Secretaria de Educacion Publica, Argentina y L. G. Obregon
6137	CR7AA	Lourenco Marques, Port. East Africa. (B). Ann: Eng, Port. Add: Caixa Postal 594. Hrs: Sun. 6-9 a.m. Weekdays 5-7 a.m.
6140	W8XK	(N) Pittsburgh, Pa. (Saxonburg), (N) Pittsburgh, Pa. (Saxonburg), 40kw. (B). Relays NBC-KDKA, Add: Westinghouse Electric & Mfg. Co., Grant Bidg. Hrs: 11 p.m1 a.m.
6145	НЈ4АВЕ	Medellin, Colombia. 1 kw. (B). "La Voz de Antioquia." Relays HJ4ABK. Int: 3 chimes. Hrs: 6-10:30 p.m.
6147	ZEB	Bulawayo, Southern Rhodesia. (C). Add: Box 792, G.P.O., Salis- bury. Hrs: Sun. 3-5 a.m.
6 150	CJRO	Winnipeg, Man. (Middlechurch).

2 kw. (B). Add: James Richardson & Sons, Ltd., 157 Royal Alexandra Hotel. Hrs: 6 p.m.midnt.

- CSL L4shon, Portugal. (B)
 Moca, D. R. (100 w. (B), "La
 Voz de Moca" Int: 5 strokes on gonz. s/o: nat'l anthem. Add: Calle Saleedo 72. Hrs: 6:15-7:45 a.m.: 11:45 a.m.-1:45 p.m.; 5:45-7:45 p.m.
 VI'B. Columba Coulon. 200 w. (B)
 - Colombo, Ceylon. 300 w. (B). Add: Central Telegraph Office. Hrs: Sun.7-11:30 a.m. Weekdays 6:30 a.m.-12:30 p.m.
 - Durban, U. of So. Africa. 10 w. (B). For details see ZRJ on 6097 kcs.
- 6158 YV5RD Caracas, Venez. (B). "Radiodifusora Venezuela." Relays YV5RB. Hrs: 10:30 a.m.-1:30 p.m.: 3:30-10 p.m.

6174 XEXA Mexico City, D. F. (B). Relays XEXM. s/o: "March of The Toys." Add: Departamento Autonomo de Prensa Publicidad (DAP1). Hrs: \$30 a.m.-midnt. Guatemala City, Guat. (B). Add:

Director General of Electrical Communications.Verifies FREE, 6190 HIJA Santiago de los Caballeros, D. R. 50 w. (B). "La Voz del Yaque." Add: Rafael Western. Hrs:

ZRD

- 6200 COKG Santiago de Cuba. 50 w. (B). "Ask for Bacardi." Relays CMKG. Add: Srcs. Grau y Cambaco. Atda 137 Hrs:
 - Caminero, Aptdo 137. Hrs: Daily exc Sat., 9 a.n.-11 p.m. XEXS Mexico City, D. F. 100 w. (B). Add: Departamento de Salubridad Publica.
- 6205 YVIRI Coro, Venezuela. 150 w. (B). "La Voz de Coro." Owner: Rodger Leyba Hrs: 5-10 p.m.
- 6206 HISQ Rodger Leyba, Hrs: 5-10 p.m. Trujillo, D. R. 200 w. (B), "La Voz de la Philco," Int: gong, s'o: nat'l anthem. Add: Av, Wencesiao Alvarez No. 3. Hrs: Sun. 6-10 p.m. Weekdays 8:30
- 6210 TG2 a.m.-noon; 2:30-5 p.m. Guatemala City, Guat. Assigned 6180
- Kalera, Venez. (B). "Radio Valera, Venez. (B). "Radio Valera." Owuer: J. L. Febres Jelambi. Hrs: 5:30-7:30 p.m.
 HRD La Celba, Honduras. 250 w. (B).
 - La Celba, Honduras, 250 w. (B),
 "La Voz de Atlantida." Hrs:
 8-11 p.m.
- 6243 H1N Trujillo, D. R. 740 w. (B). "Broadcasting Nacional." s/o: nat'l anthem, Add: Frank Hatton, Dominican Gov't., Carle Arzobispo Merino 79, Hrs: Weekdays, noon-2:30 p.m.; 5:45-10 p.m.
- 6250 YV5RJ Caracas, Venez. (B). "La Voz de la Estera." Relays YV5RI, Add: Suegart y Cla., Box 1908, Hrs: 10 a.m.-10 p.m.
- 6270
 YV5RP
 Caracas, Venez. 1200 w. (B). "La Voz de Philco." Relays YV5RQ. Add: Aptdo 508. Hrs; 7 a.m.-1:30 p.m.; 3:30-9:30 p.m.; 6280

 6280
 HIG
 Trujilo, D. R. 150 w. (B). "La Opinion." s/o: nat") anthem
 - Add: Andres Cordero Puello, Santiago Rodriguez No. 12. Hrs: Weekdays 7-9 a.m.: noon-2:30 p.m.; 4-9 p.m.

6282 COHB Sancti-Spiritus, Cuba. 150 w.

		(B). Relays CMHB. Add: V. E. Weiss y O. Ramirez, Aptdo 85.
6295	OAX4G	Hrs: 9-11 p.m. Lima, Peru, 400 w. (B). "Radio Greilaud." Relays OAX4B, Add: Roberto Greilaud y Cia., Sen
6300	YV4RD	Abancay 915-23. Hrs: 7-9:30p.m. Maracay, Venez. (B). "La Voz de Aragua." Relays YV4RG. Owner: Luis y Victor Croquer.
6310	HIZ	Owner: Luis y Victor Croquer. Hrs: 5-11 p.m. Trujillo, D. R. 100 w. (B). Add: Cattle Duarte 68. Hrs: Sun. 11:40 a.m2:40 p.m. Weekdays 11:10- a.m2:10 p.m.; 4:40-9:40 p.m. Villarrica, Paragaay. 1 ko. (B). "Radto Cultura." Hrs.: 11 a.m 6 p.m.
6312	ZP14	a.m2:10 p.m.; 4:40-9:40 p.m. Villarrica, Paragnay. 1 kw. (B). "Radio Cultura." Hrs.: 11 a.m
63 30	COCW	Havana, Cuba. (B). Relays CMW. "La Voz de las Antillas."
6335	OAX1A	7 a.mmidnt. Chiclayo, Peru 200 w. (B). "La Voz de Chiciayo." s/o: "Good- night Waltz." Add: Carlos J.
6340	них	Add: rased us Nation for the state for the state of the s
63,57 6360	HRP1 YV1RH	Jucs, J.J., O D.J., San Pedro Sula, Honduras. (C) Maracaibo, Venezueia. (La Arringa). 350 w. (B). "Ondas del Lago." Relays YV1RF. Int: notes from "Jealousy". Add: Nicolas Vale Quintero. Aptdo oft. Micro Sum 6:30 a m.2:30
		201. 1115. 3011., 3.30 a.m. 2.30
6375	YV5RF	p.m., Weekdays, 6:15-7:15 a.m.; 11 a.m1:30 p.m.; 4-11 p.m. Caracas, Venez. (B). "Ecos del Caribe." Relays YV5RE. Add: Estudios America. Aptdo 963. Hrs: 11:30 a.m10 p.m. Basseterre, St. Kitts. 500 w. (B) Opens: "Rule Brittania." s/o: "God Save The King." Add: P. O. Bayes & Hes.14.45 p.m. dally.
6384	VP2LO	Hrs: 11:30 a.m10 p.m. Basseterre, St. Kitts. 500 w. (B) Opens: "Rule Brittania." s/o: "God Save The King." Add: P.
6385	WO9	Mitchell Field, L. I., N. Y. (A).
6400	YV5RH	O. S. Army Caracas, Venezuela. (B). "On- das Populares." Relays YV5RG.
6410	TIPG	Add: Aptro. 1931. San Jose, Costa Rica. 1 kw. (B). "La Voz de la Victor," Ann: Eng, Sp. s/o: "Good Night Sweetheart." Add: Perry Gir- ton, Aptdo 224. Hrs: 6-10:30 p.m.
64 16	YV6RC	Bolivar, Venezuela. (B). "Radio Bolivar."
6420	IIIIS	Puntingo da los Caballaros D. P.
	TGQA	Santingo tensor Cabanetos, D. K. 20 w. (B). "La Voz de la His- paniola." Hrs: 6-11 p.m. Quezatemanço, Guata. (B). Add: Director General of Electrical Communications. Verfites FREE. Hrs: 8-10 p.m.
6425	OAX4K	Lama, Peru. 200 w. (B). "Radio Goincochea." Relays OAX4E. Add:
	W2XGB	Hicksville, N. Y. 5 kw. (E).
	W3XL	Goncocrd ^{2,*} Tedays OAAAB, Add. Ing. Juan F. Gohcochea, Ocona 158 Hicksville, N. Y. 5 kw. (E). Press Wireless, Inc. New York, N. Y. (Bound Brook, N. J.). 100 kw. (E). Add: NBC, Rock cfeller Plaza, NYC.
6450	HI4V	San Francisco de Macoris, D. R. 25 w. (B). "La Voz de la Mari- na." Hrs: 2:40-4:40 p.m.; 7:10- 9:10 p.m.
6465	YV3RD	Barquisimeto, Venez. (B). "La Voz de Lara." Ann: Eng, Fr, It, Sp.

6479	HI8A	Trujillo, D. R. (B). "Fa Doc en el Aire."
	HIIL	el Aire." Santiago de los Caballeros, D. R. (B). "Emisora Nacional." Add: El Diario, Calle Presidente Tru-
		(B). "Emisora Ivacional: Adul- El Diario, Calle Presidente Tru- jillo 97. Hrs: 6:30-8 a.m.; 5:30- 7 p.m.; 8-9 p.m. North West Airlines
64 90	****	7 p.m.; 8-9 p.m. North West Airlines
6500	J2AA	Tokyo, Japan. (naneua Air-
	HIL YV1RM	Trujillo, D. R. 50 w. (B).
	YVIRM	difusora Maracaibo." Relays
6508	÷	
$6510 \\ 6520$	**** YV4RB	Trans Western Airlines Valencia, Venez. (B). "La Voz de Carabobo." Relays YV4RA. Int: chimes, then short plano
0520	1 4 4 16 19	de Carabobo." Relays YV4RA.
		selection, then chimes. Owner:
		selection, then chimes. Owner: Sres. Hermann y Williams Deg- witz. Hrs: 5-10 p.m.
6530	****	Trans Western Airlines Trans Western Airlines
6540	YN1GG	Managua Nicaragua. (B).
		Wants unused USA stamps for veries. "La Voz de los Lagos."
6545	**** YV6RB	American Airlines Bolivar, Venez. 200 w. (B). "Ecos del Orinoco." Relays YVØRA. Int: bell. s/o: "Sin Nombre": a one-step. Add: En- rique Torres Valencia, Aptido34.
		"Ecos del Orinoco." Relays
		Nombre," a one-step. Add: En-
		Hrs: 10:30 a.mnoon; 7-9:30 p.m. San Jose, Costa Rtca
6550	T1RCC ****	American Airlines
6555	H14D	Trujillo, D. R. 25 w. (B). "La Voz de Quisqueya" Hrs: 5-
6560	****	8 p.m.
	****	Pacific Alaska Airways
6570	****	Pacific Alaska Airways Pan American Airways _
6575	HCIVT	American Animes Pacific Alaska Aliways Pacific Alaska Aliways Pan American Aliways Ambato, Ecuador. (B). "Radio Ambato."
6580 6590	**** COCU	Pan American Airways
0030	0000	Havana, Cuba. (B). Add: Estrada Palma 25, Vibora. Hrs:
		Sun. 7 p.mmidnt. Weekdays 7 p.m1 a.m.
660 0 6610	**** YNLG	Southern Airlines Managua, Nicaragua, 1 kw. (B).
		noons, "Till We Meet Again."
		calls and a march. Sole After- noons, "Till We Meet Again," Evenings, "Good Night, Ladies," Add: 5a Calle Noroeste No. 207. Hrs: 8-10 a.m.; 1-3 p. 6 a.m.; middle Noroeste
		No. 207. Hrs: 8-10 a.m.; 1-3 p.m.; 6 p.mmidnt.
6622	PRADO	Riobamba, Ecuador. (B). "Estacion El Prado." Add:
		Fabrica de Tejidos de El Prado.
6 630	HIT	Trujillo, D. R. 200 w. (B). "La
		bells. s/o: Nat'l anthem. Add:
		A. L. Pichardo, Aptdo 1105. Hrs: Sun. 10:45 p.m1:45 a.m.
6660	WOGK	 No. 207. 113. Serio Attin, 1-5 p.m.; 6 p.m.; 6 p.m.; midht. Riobamba, Ecuador. (B). "Estacion El Prado." Add: Fabrica de Telidos de El Prado. Aptio 98. Hrs: Thurs., 9-11 p.m. Trujillo, D. R. 209 w. (B). "La Voz de la RCA-Victor." Int: bells. s/o: Nat'i anthem. Add: A. L. Pichardo, Aptdo 1105. Hrs: Sun. 10:45 p.m1:45 a.m. Yaeht "Mako." 100 w. (SS). Thorne Donnelley Ketchikan, Alaska. (C).
6662	WXH	Thorne Donnelley Ketchikan Alaska (C)
6668	HC2RL	Ketchikan, Alaska. (C). Guayaquil, Ecuador. 200 w. (B). "Quinta Piedad." Int: "Hello, America." s/o: Nat'l anthem.
		America." s/o: Nat'l anthem.
		America. 8/0: Nati anthem. Add: Dr. Roberto Levi, Casilla 759. Hrs: Sun. 5:30-7:30 p.m. Tues., 9-11 p.m.
6672	YVQ	Tues., 9-11 p.m. Maracay, Venezuela. (C).
6672 6675	HBQ	Geneva, Switzerland (Prangins).
		(B). "Radio Nations". Add:

		Information Section, League of
6690	TIEP	Nations. San Jose, Costa Rica. (B). "La Voz de Isthmo." Add: Eduardo Pinto Hernandez, Apt-
e700	<i>m</i> , , , , , , , , , , , , , , , , , , ,	do 257. Hrs: 4-11 p.m.
<i>6700</i> 6710	<i>TIVL</i> KEF	(X) Bolinas Calif (C)
0,10	PMH	Bandoeng, Java, N.E.I. 1500 w.
6720	CFU	do 257. Hrs: 4-11 p.m. San Jose, Costa Rica (X) Bolinas, Calif. (C). Bandoeng, Java, N.E.I. 1500 w. Rossiand, B. C. (c). Con- solidated Mining & Smelting Co. Ja Romana, D. R. (B). "La
6730	H13C	La Romana, D. R. (B). "La Voz de la Feria." Hrs: 5:45- 8 p.m.
6755	WOA	(X) Lawrenceville, N. J. (C).
6762	TDA	 (X) Lawrenceville, N. J. (C). Shinkio, Manchukuo. 20 kw. (C). Manchukuo Telegraph &
6780	нін	Telephone Co., Ltd. San Pedro de Macoris, D. R. 150 w. (B). "La Voz de Higu- amo." Owner: Sr. Domingo
6800	HI7P	Dominguez. Trujillo, D. R. 25 w. (B), DRIFTS. "Diarlo del Com-
68 45 6850	<i>PZH</i> KEN TIOW	 Marimba, Add: Calle Jose Reyes 35. Hrs: Sun. 10-11 a.m., Weekdays 1-3 p.m.; 7-9 p.m. Paramurbo, Surtnam (X) Bolinus, Calif. (C). Puerto Limon, Costa Rica. 400 w. (B). Owner: Otto F. Wimmer. Hrs: Sun. 4-5 p.m. Weekdays noon-1 p.m.
6860 6890	KEL KEB	 (X) Bolinas, Calif. (C). (X) Bolinas, Calif. (C).
		(X) Bonnas, Cant. (C).
6905	GDS	Rugby, Gt. Britain, 15 kw. (C). Add: Engineer-in-Chief, G.P.O., Armour House, St. Martins le Grand, London EC1.
6915	XBA	Tacubaya, D. F. (C). Servicio Meteorologico Mexicano.
6950	GBY	Rugby, Gt. Britain. (C). See GDS 6905 kcs for more data
7000	PZH	Paramaribo, Surinam
7000		
to	AMATEU	JRS
7300		
7090	FO8AA	Papeete, Tahiti. 200 w. (B)- Owner: Radio Club Oceanien. Hrs: Tues., Fri., 11 p.mmidnt.
7 <i>200</i>	YNAM	Managua, Nicaragua. (B). Unused USA stamps for vertes. "La Voz del Pacifico." Hrs: 8 p.mmidni.
7300	VIG	Port Moresby, Papua. (B)- Relays 4PM.
7380	XECR	
		Mexico City, D. F. 20 kw. (B) Ann: Eng, Sp. Add: Scoretaria de Relaciones Exteriores. Hrs: Sun. 6-8 p.m.
		Paris, France. (B). "Radio Liberte."
7500		Salamanca, Spain. ''Radio Nacional''
7510	JVP	Tokyo, Japan. (Nazaki). 50 kw. (B). Ann: Chinese, Eng, Fr,
		Ger, Jap, Port. Sp. s/o: "Kima- gayo," nat'l anthem. Add: Nippon Hoso Kyokal, Overseas Section, Broadcasting Corp. of Japan, Atago-Yama, Tokyo. Hrs: 2:30-4 p.m.
7520	KKH RKI	(X) Kahuku, Hawaii. 10 kw. (C). Moscow, U.S.S.R. (B and C). Hrs: Daily 7-9 p.m.
7532	HJA3	Bogota, Colombia. (C).
7555	woz	(X) Lawrenceville, N. J. 20 kw.(C).

7565	KWY	(X) Dixon, Calif. (C).
7570	WDJ TDG	(X) Ocean Gate, N. J. 2 kw. (C). Shinkio Manchukuo (C) Man-
1010		 (X) Dixon, Calif. (C). (X) Ocean Gate, N. J. 2 kw. (C). Shinkio, Manchukuo. (C). Man- chukuo Telegraph & Telephone Co.
7610	KWX	(X) Dixon, Calif. 40 kw. (C).
7620 7700	IUB TYC2	Addis Ababa, Ethiopia. (C). Ste. Assise, France. (SS). Add:
		L'Engenieur en Chef, Directors de Service de la Telegraphie sans
		de Service de la Telegraphie sans Fil, 5 Rue Froidevaux (14e)
		Paris.
7715	**** KEE	Airways (X) Bolinas, Calif. 40 kw. (C),
7750	CMA5	
7797	HBP	Geneva, Switzerland. (Pran-
		Nations." Add: Information
	UCIDD	Section, League of Nations.
7870	HCIRB	 Havana, Cuba. (C). Geneva, Switzerland. (Prangins). 20 kw. (B). "Radio Nations." Add: Information Section, League of Nations. Quito, Ecuador. (B). "La Voz de Quito." Hrs: 8:30-11:30 p.m. Palembang, Sumatra, N.E.I. (C). Add: 4th Telegraph and Telephone District Hrs: Phones
	YBB	Palembang, Sumatra, N.E.I.
		(C). Add: 4th Telegraph and Telephone District. Hrs: Phones
		Java 8:30 p.m7 a.m. San Salvador, E. S. (B). "Radio Nacional." Relays YSS. Add: Director General de Telegrafos, Tablemar y Bedie Nacionales
7894	YSD	Nacional." Relays YSS. Add:
		Director General de Telegrafos,
		Hrs: 0-10:30 n m
7901	LSL1	Buenos Aires, Argentina. (C), Add: Cla Internacional de Radio, S. A., Defensa 143. Rugby, Gt. Britain. (C). Add:
		Radio, S. A., Defensa 143.
7 9 20	GDP	Rugby Gt. Britain. (C). Add:
		Section), Armour House. St.
7968	HSJ	 Add. Cha International de Radio, S. A., Defensa 143. Rugby, Gt. Britain. (C). Add: General Post Office, (Radio Section), Armour House. St. Martin's le Grand, London ECI. Bangkok Slam. (C) Add: Poet
		and Telegraph Dept.
7 970 7977	NGL	Shanghai, China. (C). (X) Lawrenceville, N. J. 20 kw.
		(C).
8050 8070	WXA KAEW	Juneau, Alaska. (C). Umnak, Alaska. (C).
	KAJJ	Atka, Aaa. (C).
	KAQF ****	Unalaska, Aaa. (C). Airways
8075 8095	WEZ	(X) Rocky Point, N. Y. (C).
8095	VLK ****	Sydney, Australia. (C). North West Airlines
8220	****	
8543	IBGI	Pan American Airways S.S. "Conte Verde." (SS). Add Italian Lines, 1 State St., NYC.
8560	<i>W</i> .00	Italian Lines, 1 State St., NYC. (X) Ocean Gate, N. J. 20 kw.
		(88)
8580	YNPR	Managua, Nicaragua. 500 w (B). Unused USA stamps for
8600	HC1EC	1:30-2:30 p.m.: 8-10 p.m. Quito, Ecuador. (B).
	HPF4	Panama City, Panama. (C). Seattle, Wash. (C). Alaskan
8620	WVD	Seattle, Wash. (C). Alaskan Telephone Co., 517 Federal
0000		
8630	VOWQ	Office Bidg. Northwest River, Labrador. (A) Newfoundland Skyways, Ltd.
8640	LI TA A DIT	Ltd. Medellin Gelembin (D) tiddi
	HJ4ABU	Universidad de Antioquia
86 65	COLK	Camaguey, Cuba. 2400 w. (B). "Radio Zenith." Relays CMJK. Add: Finlay 3. Hrs: 6 p.m1
		Add: Finlay 3. Hrs: 6 p.m1
8680	GBC	8.m. Bughy (4t Britain (SS) Add
		See GDP on 7920.
8690	VWZ	Kirkee Poona India 10 kw
		(C). Add: Indian Radio & Cable Communications Co., Poona 6.
	KBB	(X) Manila, Philippine Isl. (C).
873 0	GCI	Rugby, Gt. Britain. (C). Add: See GDP on 7920.

8740 8770	WXV ICEJ	 Fairbanks, Alaska. (C). S. S. "Rex." (SS). Add: Italian Lines, I State St., NYC. Bogota, Colombia. (E). Minis- try of War. S. "Normandie." (SS). French Lines, pier 88, North River, Foot of W. 48th St., NYC. S. "Conte di Savoia." (SS). Add: Italian Lines, I State St.
879 8	HKV	Bogota, Colombia. (E). Minis-
8810	FNSK	S. S. "Normandie." (SS). French Lines, pier 88, North
	IBLI	River, Foot of W. 48th St., NYC. S. S. "Conte di Savoia." (SS). Add: Italian Lines, 1 State St NYC.
8820	нсјв	Quito, Ecuador. 1 kw. (B). "La Voz de los Andes." Add: Clarence W. Jones, Casilla 691. Hrs: Daily exc. Mon., 7-8:15 a.m.; 11:30-2:30 p.m.; 4:45-10:15 p.m.
	WOGK	Yacht 'Mako.'' 100 w. (SS). Thorne Donnelley.
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. "Majustic" GMBJ S. S. "Empress of Bri- tain"
		French Ships. Work WOO. Add: French Lines, Pier 57, Hudson River, NYC. FNSK S. S. "Normandie" FNSM S. S. "Paris" FNTQ S. S. "Tie de France"
		Furness-Bernuda Lines. VQJM S. S. "Monarch of Ber- muda" VQJP S. S. "Queen of Bernu-
		da" German Ships. Work DAF and WOO. Add: North German Lloyd, Pier 42, North River, Morton St. NVC
		German Snips. Work DAF and WOO. Add: North German Lloyd, Pier 42, North German DDFF 8.8. "Berlin" DDFF 8.8. "Gap Polonio" DDFF 8.8. "Gap Polonio" DDFF 8.8. "Gap Polonio" DHDL 8.8. "Cap Polonio" DHDL 8.8. "Cap Polonio" DHDL 8.8. "Cap Arecoa" German ships. Work DAF and WOO. Add: Handburg American Lines, Pier 86, North River, W. 46th St., NYC. DHAO 8.8. "Hannsa" DHEY 8.8. "Beutschand" DHZ 8.8. "Hannsa" DHEY 8.8. "Hannsa" DHEY 8.8. "Beutschand" DHZ 8.8. "Hannsa" DHEY 8.8. "Beutschand" DHZ 8.8. "Hannsa" DHZ 8.8. "Hannsa" DHZ 8.8. "Beutschand" DHZ 8.8. "Beutschand" DHZ 8.8. "Beutschand" DHZ 8.8. "Brooklyn, N.Y. DOAH 8.8. "Brooklyn, N.Y. DOAH 8.8. "Brooklyn, N.Y.
		German Lloyd, Pier 4, Foot of 58th St., Brooklyn, N. Y. DOAH S. S. "Bremen" DOAI S. S. "Europa"
8840	ZMBJ	T. S. S. "Awatea." (SS). Add: Union Steamship Co. of N. Z., Auckland.
8850	FNSK	S. S. "Normandie." See 8830 kcs.
8960	TPZ	Alger, Algiers. (C). Address reports to Director du Service de la Teiegraphie sans fil, 5 rue Froidevaux, Paris.
9010 9020	KEJ GCS	 (X) Bolinas, Calif. (C). Rugby, Gt. Britain. 15 kw. (C). Add: See GDP on 7920
9030	COBZ	Havana, Cuba. (B), DRIFTS. "Radio Salas." Relays CMBZ. Add: Aptdo. 866.
9 038	VWY	Kirkee, Poona, India. See VWZ on 8690.

9040	TYA2	Pontoise, France. 10 kw. (C). Add: See TYC2 on 7700.
9045		Kirkee, Poona, India. See VWZ on 8690.
9050	NPO	Cavite, Philppine Islands. Time signals at 5:55 p.m. EST.
9080 9100	XTK	Hankow, China. (C).
9 125	НАТ4	Ravana, Cuba, (b), DAAF 15, Relays CuCA. Add: Testar y Gonzales, Box 3488. Budapest, Hungary (Szekesfe- hervar), 20 kw. (B), "Justice for Hungary," Ann: usually by Iddy, In Eng, Fr, Hungarian, s/o; Nat'i anthem, "Isten add
		Hungarian). Add: Radiolabor, Kiserleti Allomas, Gyali-ut 22, Budapest IX. Hrs: Sun., Wed.,
9168	YVR	7-8 p.m.; Sat., 6-7 p.m. Maracay, Venezuela. (C).
9180	HC1GQ	Quito, Ecuador (Nariz del Diablo). (B). s/o: "Blue Danube Waltz." Add: Aptdo 159. Hrs:
	ZSR	Hungarian). Add: Radiolabor, Kiserieti Allomas, Gyal-ut 22, Budapest IX. Hrs: Sun., Wed., 7-8 p.m.; Sat., 6-7 p.m. Maracay, Venezuela. (C). Quito, Ecuador (Nariz del Diablo). (B). s/o: "Biue Danube Waitz." Add: Aptol 159. Hrs: Mon., Wed., Sat., 9-10:30 p.m. Klipheuvel, Union of So. Africa. (C). Add: Overseas Communi- cations of So. Africa, Ltd., Box 962, Cape Town. Havana, Cuba. (B). DRIFTS.
9200	COBX	962, Cape Town. Havana, Cuba. (B). DRIFTS. Relays CMBX. Add: Alberto
9250	HC2CW	902, Cape Iown. Havana, Cuba. (B). DRIFTS Relays CMBX. Add: Alberto Alvarez, San Miguei 194. Guayaquil, Ecuasior. (B). Ondas del Pacifico.'' Add: Aptdo. 1166.
	NAA	Arlington, Va. Time signals at 9:55 a.m. and 9:55 p.m. EST.
9280	GCB	Rugby, Gt. Britain. 15 kw. (C).
	XGU	Shanghat, China. (C)
<i>9285</i> 9300	Х <i>РС</i> НІ G	Trutillo D B 250 w (B). "La
		Add: See GDF on 1920. Shanphat, China. (C) Shanphat, China. (C) Trutillo, D. R. 250 w. (B). "La Oplinion." s/o: Nat'l anthem. Add: Andres Cordero Puello, Santiago Rodriguez 12. Hrs: Weekdays noon-12:30 p.m.; 4-9 p.m.
9300	<i>NTC</i> YNGU	Shanghat, 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.
9310	****	Airways
	OAX4J	Lima, Peru. Assigned 9520
934 5	HBL	Geneva. Switzerland. (Pran- gins). "Radio Nations." Add: Information Section, League of Nations.
9350	HC1ETC HS8PJ	Quito, Ecundor. (B). Rangkok, Siam. (B). Ann: Eng. Fr. Siamese. Int: 3 chimes. Add: Post and Telegraph Dept. Canton, China. (C). Add: Chimese Commercial Badia Chimese
	XTR	Sussoon House, Jinkee Road,
		Shanghat. Fort de France, Martinique. (B). "Radio Fort de France."
9355	WNK	(X) Hialeah, Fla. (C).
9363	COBC	Havana, Cuba. (B). DRIFTS. "El Progreso Cubano." Relays CMBC. Add: Av. Monte 139,
9415	PJC2	or, Aptdo 132. Willemstad, Curacao. (B). "Radio Curom." Add: Cura- caosche Radio Vereeniging, Em- mastad. Hrs: Sun. 10:30 a.m 12:30 p.m.

	PLV	Bandoeng, Java, N.E.I. 80 kw. (C). Add: Governments Radio-		
		dienst.		OAX4
9425	NAA	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,		
		6:55 and 11:55 p.m.		
9428	COCH	Havana, Cuba 150 w. (B). Add: General Electric Co. of Cuba, No. 2 "B" St., Vedado. Hrs: 7 a.m1 a.m.		/
		Hrs: 7 a.m1 a.m.		OZF
9445	HC2RA	Voz de Alma'' Hrs: Sun. 4-10		
9448	WES	(X) Rocky Point N Y (C).		
9450		 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. Tripoli. 2 kw. (C). 		XEDQ
9460	ICK WKJ	Tripoli. 2 kw. (C).		
947 0	PJC1	(X) New Brunswick, N. J. (C).Willemstad, Curacao. 150 ♥.		
		 (a) How Balawica, A. J. (a) Willemstad, Curacao. 150 w. (B). "Radio Curom." Add: Curacaosche Radio Vereeniging Hrs: Sun. 10:30 a.m12:30 p.m. 		
	WET	(X) Rocky Point, N. Y. (C).		
9475 9480	<i>EAH</i> EAR	Madrid, Spain. (C) Madrid, Spain. 20 kw. (B). "La Voz de Espana." Add:		Y SH
		Medinaceli 6. Hrs: 7:30-8 p.m.;		
	KES	8:30-9 p.m. (N) Bolinas, Calif. (C).	9523	ZRH
9490	XTV	Canton, China. (C).	0010	
9500	HJIABE	Cartagena, Colombia. (B). "La Voz de los Laboratorios, Fuentes." Add: Aptdo 31.		
	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		
		Add: Aptdo 2516. Hrs: 8:55 a.m	9525	ZBW3
	XGW	midnt. Shanghat, China	3020	20,00
9 501	PRF5		0500	110
		Rio de Janeiro, Brazil. 60 kw. (B). "A Vox do Brasil." Add: Cia. Internacional do Brasil. Box 709.	9530	LKC W2XA
9504	OLR3B	Prague, Czechoslovakia. 35 kw. (B).		
9510	CXA8	Colonia, Uruguay, 2500 w. (B).		
		"Real de San Carlos." Relays LR3 of Buenos Aires. Add:		
		Real de San Carlos Colonia.		
		Real de San Carlos, Colonia, Hrs: 6 a.m10 p.m.		W6XB
	GSB	London, Gt. Britain. (Daven- try) 20 km (B) "B for Broad-	9535	JZ1
		try). 20 kw. (B). "B for Broad- 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		
		minster Chimes. s/o: "God		
		Save The King." Add: British Brdestg Corp London W1		
		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-	9536	VPD2
		4:15-6 p.m.; 6-8:30 p.m.; 9:20- 11:20 p.m.		
	HJU	Buenaventura, Colombia, 1 kw.	9540	DJN
		Buenaventura, Colombia. 1 kw. (B). "La Voz del Pacifico." s/o: "Palmira March." Add:		
		National Railroads of Colombia.		
	HS8PJ	Bangkok, Siam. (B). Opening and interval sigs: 3 ascending		
		and interval sigs: 3 ascending chimes Ann: Eng Fr Siamese		
		chimes. Ann: Eng. Fr. Siamese. Add: Colonel Phra Aram, Post		
		and Telegraph Dept. Hrs; Mon.,		
	VK3ME	Thurs., 8-10 a.m. Melbourne, Australia. (Bray-	9 550	OLR3
		bank), 5 kw. (B). Add: Amalga-		
		Melbourne, Australia. (Bray- bank). 5 kw. (B). Add: Amalga- mated Wireless (A/sia) Ltd., Box 1272L, Elizabeth St. P. O.		
		Hrs: weekdays 4-7 a.m.		
9520	HJ6ABH	Armenia, Colombia. 1 kw. (B). "La Voz de Armenia." Relays HJ6ABN. Add: Hoyos, Gutier-		W2XA
		HJ6ABN, Add: Hoyos, Gutler-		

rez y Aristizabal. Hrs: 8-11 a.m.; 6-10 p.m.

a.m.; 6-10 p.m. Lima, Peru. 500 w. (B). "La Voz de Lima." Relays OAN41, Opens: "Broadway Rhythm." OAX4J Int: 3 chimes. s/o: "Whistler and His Dog." Ann: Eng. Fr. Ger, Sp. Add: Radio Inter-nacional, Inc., Aptdo 1166. Hrs: noon-3 p.m.; 5-11 p.m.

Copenhagen, Denmark. (Skamlebaek). 6 kw. (B). Add: Mail and Telegraph Dept., Technical Division, Statsradiofonien, 32 Bernstorffsgade. Hrs: 2-6:40 p.m.

p.m. Guadalajara, Jal. 500 w. (B). "Hablando a los continentes desde Guadalajara." Relays XED. Int:4 chimes s/o: "Jarabe XEDQ Tapatio." Add: Radio Fono-Tapatio." Add: Radio Fono-grafica de Guadalajara, S. A., Aptdo. 197. Hrs: noon-4:30 p.m.: 8 p.m.-midnt. San Salvador, E. S. (B). Relays YSH

YSS.

- Paris, France. (B). "Radio Liberte." Add: 10 Ave. de la Liberte, Becon, Courbevole. France Pretoria, Union of So. Africa. (Roberts Heights). 5 kw. (B). Opens: bugle call. Ann: "Johan-nesburg calling." Add: South African Broadcasting Corp., Box 4559, Johannesburg. Hrs: Bun, 3:30-4:30 a.m. or 4-5 a.m. Daily exc. Sun., 5-7:30 a.m.; 11:45 p.m.-12:45 a.m.
- Hong Kong. 2500 w. (B). Add: Hong Kong Brdcstg. Committee. Box 200.
- Jeloy, Norway. 1 kw. (B). Hrs: 5-8 a m
- Schenectady, N. Y. 40 kw. (B). "The Voice of Electricity." Relays NBC-WGY. Opens: W2XAF electrical discharge of 10 million volts of man-made lightning. Add: General Electric Co. Hrs: Sat. noon-midnt. Other days 4 p.m.-midnt.
- Belmont, Calif. 20 kw. (B). Add: W6XBE General Electric Co.
- Tokyo, Japan. (Nazaki). 50 kw. (B). Ann: Chinese, Eng, Fr, Ger, Jap, Port, Sp. s/o: "Kimagayo," nat'l anthem. Add: 535 JZ1 Nippon Hoso Kyokai, Overseas Section, Broadcasting Corp. of Japan, Atago-Yama, Tokyo. Hrs: 2:30-4 p.m.; 4:30-5:30 p.m. Suva, Fiji. 2 kw. (B). Add: Amaigamated Wireless (A/sia) 536 VPD2 Ltd. Hrs: 5:30-7 a.m.
- 40 DJN Berlin, Germany. (Zeesen). 50 Berin, Gernany. (Zeesen), 50 kw. (B). Int: music box tune, s/o: "Horst Wessel Lied" and "Deutschlandlied." Add: Reichs - Rundfunk - Gesell-schaft, Haus des Rundfunks, Meruschlege Burlin, Cher-Masurenallee, Berlin - Char-lottenburg 9. Hrs: 4:50-10:45 D.m.

Prague, Czechoslovakia. (Pode-50 OLR3A brady). 35 kw. (B). Int: trumpet tune from "New World Symphony." Add: Fochova Tr. 16, Praha XII. Hrs: Mon., Tues., 4:40-5 p.m. W2XAD Schenectady, N. Y. 50 kw. (B)

General Electric Co. Hrs: 7:30 p.m.-midnt.

	XEFT	Veracruz, Ver. 20 w. (B). "La Voz de Veracruz." Relays XETF. s/o: "Vals Poetico." Add: Av. Independencia 28. Hrs: 10:30 a.m4:30 p.m.; 7:30
		Paris, France. (Essarts). (B).
95 60	DJA	"Radio Coloniale." Berlin, Germany. (Zeeson). 50 kw. (B). See DJN on 9540. Hrs: 12:05-11 a.m.; 4:50-10:45
	YDB	p.m. Sourabaya, Java, N.E.I. 1 kw.
9562	OAX4T	(B). Lima, Peru. 10 kw. (B). "Radlo Nacional." Relays OAX4A. Add: Peruvlan Gov't., Av. Petit Thouars 447. Hrs: 11:30 a.u1:30 p.m.
95 65	VUB	Bombay, India. 4500 w. (B). Add: All India Radio, Irwin House, Sprott Road, Ballard
9570	KZRM	Manila Philippine Isl. Add: Erlanger & Galinger, Inc., Boging Bidg David St.
	WIXK	 Istate. Manila, Philippine Isl. Add: Erlanger & Galinger, Inc., Regina Bidg., David St. (X) Boston, Mass. (Millis). 10 kw. (B). Relays NBC-WBZ- WBZA. Add: Westinghouse Elec. & Mfg. Co. Hrs: Sun. 8 a.m1 a.m. Other days 6 a.m
9580	W8XK GSC	 (X) Puttsburgh, Pa. Not used now. London, Gt, Britain. (Daventry) 20 kw. (B). "C" for Corporation. See GSB on 9510 kcs. Hrs: 4:15-6 p.m.; 6-8:30 p.m.; 9:20-11:20
	VLR	p.m. Melbourne, Australia (Lynd-
9590	PCJ	hurst). Hrs: 1-9:45 a.m. Huizen, Netherlands. 20 kw. (B). Ann: Du, Eng, Fr, Ger, Malay,
	VK2ME	Ann: Du, Eng, Fr, Ger, Maiay, Port, Sp. s/o: Natl anthem. Add: Philips' Omroep Holland Indie, Emmasingel 29, Eind- hoven. Hrs: Sun. 2-3 p.m.; 7-9 p.m. Tues., 1:45-3:30 p.m. Wed 7-9:30 p.m. Sydney, Australia. (Pennent Hills). 20 kw. (B). Int: laughing call of the kookaburra. Add: Amalgamated Wireless, (A/sia) Ltd., 47 York St. Hrs: Sun.,
	VK6ME	1-3 a.m.; 5-11 a.m. Perth, Australia, 5 kw. (B). Add: Amalgamated Wireless, (A/sia) Ltd. Hrs: Daily exc Sun, 4-6 a.m.
	VUD2	Sun. 4-6 a.m. Delhi, India. (B). Heard 9:30 p.mmidnt.
	W£XE W3XAU	Delhi, India. (B). Heard 9:30 p.mmidnt. New York, N. Y. (Wayne, N. J.) Philadelphia, Pa. (Newtown Square). 10 kw. (B). Relays CBS-WCAU. Add: WCAU Brdesty. Co., 1622 Chestnut St. Hrs: noon-8 p.m.; 11 p.m midnt.
	W8XAL	Cincinnati, Ohio. (Mason). 10 Itw. (B),
9595	HBL	Geneva, Switzerland. (Pran- gins). 18 kw. (B). "Radio Nations." Add: Information Section League of Nations
	RAN	Rations. Jeague of Nations. Section, League of Nations. Moscow, U.S.S.R. (B). Add: Radio Center, Solianka 12/ Hrs: 7-9:15 p.m. Singapore, Straits Settlements,
0000		Singapore, Straits Settlements,
9600	CB960	Santiago de Chile. (B). "Radio, difusora Pilot." s/o: "Rhapsody in Blue." Add. Compania Inter- nacional de Radio, Casilla 16-D. Hrs. 6-7:80 p.m.

- NEYU Mexico City, D. F. 1500 w. (B). Relays NEXN. Ann: Eng, Fr. Sp. Add: Universidad Nacional de Mexico, Justo Sierra No. 16, Mexico City. Hrs: 3:30-4:30 p.m.; 8 p.m.-midnt.
- 9605 HP5J Panama City, Panama. 1 kw. (B). "La Voz de Panama." Add: Manuel Diaz Doce, Aptdo 867. Hrs 6:30-11 p.m.
- 9606 ZRK Cape Town, Union of So. Africa. (Kilpheuvel). 5 kw. (B). See ZRH on 9523 kcs for details. Hrs: Best time 11:45 p.m.to 12:45 a.m.
- 9618 HJ1ABP Cartagena, Colombia. 750 w. (B). "Radio Cartagena." Add: Aptdo 37. Hrs: 6-10 p.m.
- 9630 HJ7ABD Bucaramanga, Colombia. (B). "Radio Bucaramanga." s/o: "La Guabina." Add: Radio Bucaramanga, Inc., Aptdo 34. Hrs: Sun. 7:30-9:30 p.m. Weekdays 11 a.m.-1 p.m.; 6-11 p.m. 9635 2RO3 Rome, Italy. 25 kw. (B).
 - Hrs: Sun. 7:30-9:30 p.m. Week-days 11 a.m.-1 p.m.; 6-11 p.m.
 ROO3 Roma-Napoli." Ann: usually by a lady. s/o: two nat'l anthems, "Glovinezza" and "Marcha Reale." Add:
 Ente Italiano per le Audizioni Radiofoniche, Via Montello 5. Hrs: 12:20 p.m.-9 p.m.
- 9636 JFO Itabushi, Taiwan. (B). Relays JFAK. Add: Kokusai Denwa Kaisba, Churchi Gai. Shinebhu, Taiwan. Hrs: 6-8:30 a.m.
- 9645 HH3W Port-au-Prince, Haiti. 30 w. (B). Add: C. Ricardo Widmaier, Box A-117, Hrs: 7-8 p.m.
- 9650 CS2WA Lisbon, Portugal. 2 kw. (B). "Radio Coloniale." Int: 3 cuckoos. Add: Senhor Abilio Nunes dos Santos, Jr., Av. Antonio Augusto d'Aguiar 136. Hrs: Tues., Thur., Sat. 4-7 p.m.
- 9660 CR6AA Lobito, Ancola, Port, West Africa, 500 w. (B), Add: Box 103, Hrs: Wed., Sat., 2:45-4:45 p.m.
 - LRN Buenos Aires, Argentina. 5 kw. (B). "Radio El Mundo." Relays LR1. Add: Calle Maipu 555. Hrs: 10:30 a.m.-12:30 a.m.
- 9670 TI4NRH Heredia, Costa Rica. 500 w. (B). "The Volce of Costa Rica." Add: Amando Cespedes Marin, Aptdo 40. Hrs: Tues., Thurs., Sat., 9-10 p.m. Sun., 7-8 a.m. Send ten cents for veri.
- 9675 DZA Berlin, Germany. (Zeesen)-(E).
- 9685 TGWA Guatemala City, Guat. 10 kw. (B). "Radio Nacional." Relays TGW. Add: Ministerio de Fomento. Verifies FREE.
- 9700 Fort de France, Martinique. 200 w. (B). "Radio Martinique" Ann: Eng, Fr, Ger. s/o: "Marseillaise." Add: Poste Seri, Boite 136. Hrs: 6:45-7:45 and irregular.
- Havana, Cuba. (B). DRIFTS. "de la RCA-Victor." Relays CMQ. s/o: "Siboney." Add; Calle 26 No. 225, Vedado.
 WDL (X) Ocean Gate, N. J. 20 kw. (C), WOF (X) Lawrenceville, N. J. (C).
 9775 COCM Havana, Cuba. (B), DRIFTS,
- "Radio Columbia." 9830 IRF Rome, Italy. (E).

9870	WON	(X) Lawrenceville, N. J. 20 kw.(C).	
98 90	LSN2	Buenos Aires, Argentina, (C).	
99 25	JDY	Dairen, Kwantung. 10 kw. (B and C). Relays JQAK. Add:	
		and C). Relays JQAK. Add; Manchuria Telephone and Tele-	
		graph Co., Shotokugai 3, Dairen.	
		TT 7 0	
9 940	CSW	Lisbon, Portugal. 5 kw. (B).	
		"Emisora Nacional." Add: Rua do Quelhas Hrs: 1-8 p.m.	
	HRL7	La Lima, Honduras. (C).	
	JDY	 His: 1-8 (1.0). Lisbon, Portugal. 5 kw. (B). "Emisora Nacional." Add: Rua do Quelhas. Hrs: 1-8 p.m. La Lima, Honduras. (C). Datren, Kwantung. Assigned 9925. 	
	WCT	San Juan, Puerto Rico, 400 W.	
9950	GCU	(C). Radio Corp. of P.R. Rugby, Gt. Britain. 15 kw. (C).	
0000	17.17	For details see GDP on 7920 (X) Manila, Philippine Isl. 40 kw. (C). Radio Corp. of the	
9990	KAZ	(X) Manua, Philippine 181. 40 kw (C) Badio Corp of the	
		Philippines.	
10000	COBC WWV	Havana, Cuba. (B). DR1FTS.	
	** ** *	Havana, Cuba. (B). DRIFTS. Beltsville, Md. 1 kw. Standard frequency transmissions on Wed. from 1:15-2:15 p.m.	
		from 1:15-2:15 p.m.	
10042	DZB	Berlin, Germany. (Zeesen)	
10055	suv	(E). Cairo, Egypt. (Abu Zabal). 10	
		kw. (C).	
	ZFB	(X) Hamilton, Bermuda. (St George). 1500 w. (C).	
10065	CON	Macau, Portuguese China.	
	TDE	Shinkio, Manchukuo. (C).	
		Manchukuo Telephone & Tele-	
10080	RIR	graph Co. Tiflis, U.S.S.R. (C).	
10105	TDB	Shinkio, Manchukuo. 20 kw.	
		(C). Manchukuo Tele. & Teleg. Co.	
10125	****	Airways	
10135	OPM	Leopoldville, Belgian Congo.	
		(C). Phones Belgium at 3 a.m. and 1-4 p.m.	
1 0 190	****		
10220	PSH	 American Airlines Rio de Janeiro, Brazil. 12 kw. (B). Verifies for IRC or unused stamps of any country. Relays PRF4. Ann: Eng. Fr. It, Ger. Port, Sp. s/o: Nat'l anthem. Add: Cla. Radio Internacional do Brasil, Calxa 709. Hrs: 6-9 nm 	
		stamps of any country. Relays	
		PRF4. Ann: Eng. Fr. It, Ger.	
		Port, Sp. s/o: Nat'l anthem.	
		do Brasil, Caixa 709. Hrs: 6-9	
10000	0.000		
10230	CED	Antofagasta, Chile. (C). Owner: Cia. de Telefonos de Chile.	
10250	LSK3	Duonos Airen Ascentino (Unit	
10260	PMN	ingham). 5 kw. (C).	
10200	PAIN	Bandoeng, Java, N.E.I. 1500 w. (C). Owner: Gouvernements Radio-Dienst. Hrs: 5:30-11 a.m.	
		Radio-Dienst. Hrs: 5:30-11 a.m.	
10290 10300	FZC LSL2	Berlin, Germany (Zeesen). (E). Buenos Aires, Argentina. (C). Rio de Janeiro, Brazil. (Mara-	
10310	PPM	Rio de Janeiro, Brazil. (Mara-	
10000		picu). (C).	
1 033 0	ORK	Rio de Janeiro, Brazil. (Mara- picu). (C). Brussels, Belgium. (Ruys- selede). 11 kw. (C).	
10335	ZFD	picu). (C). Brussels, Belgium. (Ruys- selede). 11 kw. (C). (X) Hamilton, Hermuda (St. George). 1500 w. (C).	
10350	LSX	George). 1500 w. (C).	
10000	LOA	Buenos Aires, Argentina. (Monte Grande). 20 kw. (B and E). Add: Cia. Radiotelegrafica Arg.,	
		Add: Cia. Radiotelegrafica Arg .,	
10370		S. A., San Martin 329. Salamanca, Spain. (B). 'Radio	
10010		Nacional."	
	EAJ43	Santa Cruz de Teneriffe, Canary Jalanda – Adda Ban 2015	
10400	KEZ	Islands. Add: Box 225. (X) Bolinas, Calif. (C),	
10420	XGW	Shanghat, China.	
	TYE3	Pontoise, France. (C).	
10535		Taihoku, Taiwan. (Chureki).	
		6 kw. (B and C). Relays JFAK.	

		Add: Kokusai Denwa Kaisha,
		Chureki Gai, Shinchiku, Taiwan, Hrs: 9-10:30 p.m.
10578		Pontoise, France. (C). Belize, Br. Honduras. (B). British Honduras Gov't. Hrs:
10 600	Z1K2	British Honduras (B).
		Tues., Thur., Sat., 7:30-7:45
		p.m.
10610	WEA	(X) Rocky Point, N. Y. 40 kw. (C).
10660		Nazaki, Japan. (C).
10670	CEC	Nazaki, Japan. (C). Santiago, Chile. (La Granja).
		4 kw. (C). Add: Cia. Inter-
10700		Paris, France. "Radio Milan."
10700 10740 10770	JVM	Nazaki, Japan. 20 kw. (C).
10770	GCP	Salutako, Chile. (La Granja), A kw. (C). Add: Cla. Inter- nacional de Radio, Casilla 16-D. Parts, France. "Radio Milan." Nazaki, Japan. 20 kw. (C). Rugby, Gt. Britain. 15 kw. (C). For details see GDP on 7920. Selumanea Snain. (B). "Badío
10823		Calimination, Opath, (D), Itaulo
10040	KWV	Nacional."
10840 10890	OWAR	(X) Dixon, Cant. 20 kW. (C). Hayana Cuba (C)
10890	ZLT	Wellington, New Zealand, (C).
11000	PLP	Nacional." (N) Dixon, Calif. 20 kw. (C). Havana, Cuba. (C). Wellington, New Zealand. (C). Bandoeng, Java, N.E.J. 1500 w.
	ZLT4	
		Weilington, New Zealand. (C). Post & Telegraph Dept, R.M.S. "Equeen Mary." Lisbon, Portugal. 5 kv. (B). "Emisora Nacional."
11018	GBTT CSW	R.M.S. "Queen Mary."
11040	CSW	Lisbon, Portugal. 5 kw. (B).
11390		Montgomery, Ala.
11402	HBO	Geneva, Switzerland (Prangins).
		"Radio Nations." Add: In- formation Section, League of
11410	XTB COCX	Shanghai. China. (C)
11400	000.5	Relays CMX. "Casa Lavin "
		Shanshai, China. (C) Havana, Cuba. (B), DRIFTS., Relays CMN. "Casa Lavin." Add: Aptdo 32. Hrs: Sun. 6-9 p.m. Weekdays 8 a.mmidnt.
11470	VTS	p.m. Weekdays 8 a.mmidnt.
11500	NTS PMK	Bandoeng, Java, N.E.I. (C)
11535	SPD	Warsaw, Poland. 2 kw. (B).
		p.m. weekdays S.a.mmidnt. Swatow, China. (C). Bandoeng, Java, N.E.I. (C). Warsaw, Poland. 2 kw. (B). Int: "The Haunted Castle." Add: Polskie Radjo, 5 Mazo- windthe St. Hert Dealty 6 - a co-
		Sun. until 8 p.m. Shanghai, China. (C)
11540	NGR VRR4	Shanghat, China. (C) Stoney Hill, Jamaica. (C)
11660	JVL	Nazaki, Japan. (C).
11670	PPQ	Nazaki, Japan. (C). Rio de Janeiro, Brazil. (Santa
		Cruz). (C). Add: Cia. Radio- telegraphica Brasileira, Calxa
		500
11680	KIO	 (X) Kahuku, Hawaii. (C). Santiago de Chile. 1 kw. (B). "Radio Otto Becker." Relays CB89. s/o: "Unsere Marine," march. Add: Otto Becker, Casilia 706. Hrs: Sun. 9 a.m 11 n.m. Wackduws 10 a.m
11700	CB1170	"Badio Otto Backer" Rolays
		CB89. s/o: "Unsere Marine."
		march. Add: Otto Beeker,
		Casilla 706. Hrs: Sun. 9 a.m 11 p.m. Weekdays 10 a.m2
		p.m.; 4-11 p.m.
	HP5A	p.m.; 4-11 p.m. Panama City, Panama, 300 w. (B). "Radio-Teatro Estrella de
		(B). Radio-Teatro Estrella de Panama.'' s/o: ''Anvil Chorus ''
		Add: Radio-Teatro, Inc., Aptdo
		Panama." s/o: "Anvil Chorus." Add: Radio-Teatro, Inc., Aptdo 954. Hrs: Sun. 9 a.m1 p.m.; 6-10 p.m. Weekdays 11:45 a.m
		1 p.m.; 6-10 p.m.
		Saigon French Indo-China (B)
		"Radio Phileo." Add: Rue Cantinat. Hrs: 5-11 a.m. Stockholm, Sweden. (Motala).
11705	SBP	Stockholm, Sweden. (Motala).
		500 w. (B). s/o: nat'l anthem. Add: Telegrafverket Tjanste-
		brev No. 5. Hrs: Sat. 1:20-2 a m :
		6 a.m1:30 p.m. Sun., 3 a.m
		6 a.m1:30 p.m. Sun., 3 a.m 1:30 p.m. Other days, 1:20- 2 a.m.; 6-9 a.m.; 11 a.m1:30
		2 a.m.; 6-9 a.m.; 11 a.m1:30 p.m.
		-

The shortwave list will be concluded in the June issue.

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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 WNAX WLAC WMBD WMBR 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 WDAF WDBJ WDRC WEEI WFBL WFBM WGAT 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 WCCL WCSH WDAF WDAY WEAF WEBC WFAA WFBR WGBF WGY WHO WIBA WHE 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 C — Eddie Cantor; Deanna Durbin KDAL KFAB KPH 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 WDB0 WDNC WDOD WDRC WEEI WCAW WCCO WCHS WDAE WGBI WCAW WCCO WOHS WHAE WHIO WHLB WHP WIBW WIBX WISN WJAS WJNO WJR WKSY WKBH WKBN WKRC WLAC WLBZ WMAS WMBD WMBR WMFG WMMN WMAX WNBF WNBX WNOX WOC WOKO WORC WPRO WQAM WREC WRVA WSFA WTAQ WTOC WWL

M — The Lone Ranger WFIL 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 WDEN WCAE WCSC WCSH WDAF WDAY WEAF WEDC WEEI WFAA WFBC 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

B --- Those We Love

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

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 WLS WMAL WREN WRTD WSPD WSYR WTCN WXYZ

C - Lux Radio Theater

CFRB CKAC KFAB KFH KFPY KLRA KLZ KMBC KMOX KNOW KOH KOIN KOL KOMA KNX 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 KCHL KCHR KGW KHQ KIDO KOA KOMO KPO KPRC KSD KSEL KSTP KTAR KVOO KYW WAVE WBEN WBRC WCAE WCSHI WDAF WDEL WEAF WFAA WFBR WFLA WGY WHO WIBA WOD WIRE WIS WJAR WJAX WKY WLW WMAQ WMBG WMC WNAC WOAI WOW WPTF WRC WSB WSM WSMB WSOC WTAG WTAM WTAR WTIC WTMJ WWJ

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 Netwôrk

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 WIIK 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 KNN KOIN KOY KSFO KSL KVI WFBM R — Burns and Allen

KARK KDYL K'ERK 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 Section

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

C — Entertainment; Jack Fulton KERN KFAB KFBK NFPY 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 KWKI 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 B — Easy Aces

KDKA KDYL KFI KGW KHQ KOA KOIL KOMO KPO KSO KWK WBAL WBZ WBZA WCKY WENR WFIL WGAR WHAM WIHO WIRE WJZ WMAL WMT WSYR WNYZ

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 WBDM 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 KSI, KVI WABC WBBM WCAO WCAU WDRC WEEI WFAL WGAR WGR WHAS WHEC WHIO WJAS WJR WJSY WKRC WOKO WORC WPRO

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 WIDO 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 KFPY KIRO KLRA KLZ KMBC KMOX KNOW KNX KOIN KONA KRLD KRNT KSFO KSL KTRH KTSA KTUL KVI WABC WADC WBBM WENS WBRC WBT WCAO WCAU WCCO WDAE WDHJ WDHC WEBI WFBL WFBMI WGAR WGR WGST WHAS WHEC WHIO WIBX WISN WJAS WJR WJSV WKRC WLAC WMAS WMBD WNAX WOKO WORC WPAO WQAM WREC WRVA WWL Also on Canadian Network

ED-8:30 p.m., E-7:30, C-6:30, M-5:30 C — AI Jolson; Parkyakarkus CFRB CRCM KPAB KFH KLRA KMBC KMOX KNOW KOMA KRLD KRNT KTHI KTSA KTUL WABC WADC WBBM WBNS WBRC WBT WCAO WCAU WCCO WDAE WDBJ WDRC WEEI WFBL WFBM WGAB WGR WCST WHAS WHEW WHO 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 — AI Pearce and Gang 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 WCAO 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 WNAF 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 WDAP 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 WTCN WXYZ

ED-9:30 p.m., E-8:30, C-7:30, M-6:30 C — Benny Godman's Orchestra KFAB KFH KFPY KGKO KIRO KIXA KLZ KMBC KMOX KNOW KNX KOIN KOMA KOY KRLD KRNT KSCJ KSFO KSI KTRH WARG WACO WADC WALA WBBM WBIG WBNS WBRC WBT WCAO WCAU WCCO WCHS WDAE WDBJ WDBO WDNC WDOD WDRC WEBI WFBI WCAR WGST WHAS WHEC WHIO WHP WIBW WIBX WISN WJAS WJR WJSY WKBB WKBN WKBW WKRC WLAC WLBZ WMAS WMBD WMBR WNAX WNBF WNOX WOC WORO WWL

 $\label{eq:response} \begin{array}{l} \mathbf{R} \longrightarrow \mathbf{Fibber\ McGee\ and\ Molly}\\ \mathbf{CFCF\ CRCT\ KDYL\ KFI\ KGHL}\\ \mathbf{KGW\ KHQ\ KOMO\ KPO\ KPRC\ KSD\ KSTP\ KTAR\ KTBS\ KVOO\\ KSD\ KSTP\ KTAR\ KTBS\ KVOO\\ WCOL\ WCSC\ WCSH\ WDAF\ WDEF WOEL\\ WEAF\ WEBC\ WFBR\ WFLA\ WQY\\ WHO\ WHEA\ WIOD\ WIRE\ WIS\\ WJAR\ WJAX\ WKY\ WMAQ\ WMB\\ WSOC\\ WTAG\ WTAM\ WTAR\ WTIC\ WTMJ\\ WWJ\\ \end{array}$

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 KPI KGW KNQ 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 $R \rightarrow Dale$ Carnegie; Winning Friends KDYL KFI KGW KHQ KOA KOMO KPO KSD KSTP KYW WBEN WCAE WCSHI 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. McCall, 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 Jolson; 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 KVI 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 WWI.

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 WENS WBT WCAO WCAO WCHS WCOA WCOC WDAŁ WDBJ WDBO WDC WDDO WDRC WEDI WEOA WFEL WFBM WGAR WGBI WGST WHAS WHEC WHIO WHLB WHP WIBW WIBX WISN WJAS WJNO WJR WJSV WKBB WKBH

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 WLS WMAL WMT WOWO WREN WSPD WSYR WXYZ

R — Tommy Dorsey Orchestra KDYL, KFI KGW KNQ KOA KOMO KPO KPRC KSD KSTP KTBS KYW WDAF WBEN WBRC WCAE WCSH WDAF WDEL, WEAF WFAA WFBR WFLA WGY WHO WIOD WIRE WISA WJAR WJAN WKY WLW WMAQ WHBC WAC 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 WMBD WMBG WMBR WMAS WNAC WNAX WNBF WNOX WOC WOKO WORC WOWO WPG WQAM WREC WSFA WSJS WSPD WTOC WWL

R — Town Hall Tonight

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

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

KDB KERN KFAB KFFK KFH KFPY KFRC KGB KII KJ.RA KLZ KMBC KMJ KMOX KOIN KOL KOMA KRLD KRNT KSL KTRH KTSA KTUL KVI KWG KWKII WABC WACO WBBM WBNS WBRC 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 WAYE WBEN WBRC

WCAE WCSC WCSH WDAF WDAF WDEL WEAF WEBC WFAA WFBC WFBR WFEA WFLA WGL WGY WHO WHBA WIOD WIRE WIS WJAR WJAX WJDN WKY WLW WMAQ WMBG WMC WNAC WOAH WOOD WORK WOW WPTF WRC WSB WSM WSMB WSOC WSUN WTAG WTAM WTAR WTIC WTMJ WWJ WWNC

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 WPRO

M — Lone Ranger, see Mon.

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 B — Easy Aces, See Tuesday

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

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 KTLL 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)

The March of Time KDKA KECA KERN KFBK KFEL KFSD KGA KGO KJR KLO KMJ KSO KWG KWK KXYZ ROIL WABY WAGA WBAL WBZ WBZA WCKY WCOL WCSC WDSU WEAN WEBR WFIL WHAM WHK WICC WJZ WLS WMAL WMPS WMT WREN WSPD 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 C - Malor Bowes' Amateurs C-Major bowes Amateurs CFRB CKAC KDB KERN KFAB KFBK KFH KFPY KFRC KGB KGKO KLRA 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 WMAS 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 KFJ 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 WOW 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 KHO KOA KOMO KPO KPRC KSD KSTP KTAR KTBS KTHS KVOO KYW WAVE WBAP WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFBR WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WLW WMAQ WMC WOAI 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 Fuiton, 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 - 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 R - Amos 'n' Andy, See Monday

ED-7:15 p.m., E-6:15, C-5:15, M-4:15 R-Uncie 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 KTES KTES 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 KWKII 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 WMBD WMBG WMBR WMMN WNAX WNBF WNOX WOC WOKO WORC WOWO WPG WPRO WQAM WREC WSFA WSJS WSPD WTOC WWL.

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 WHK 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 WMAS WMBD WMBG WMBR WNAC WNAX WNOX WOKO WORC WPG WOAM 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 WEEI 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 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 WQAM WREC WRVAWSBT WSFA WSJS WTOC WWL

CBC — Canada 1938

CBC — Canada 1355 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 WEEI 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 Fidler

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-18:15, 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

- Uncle Jim's Question Bee B-KDKA WBZ WBZA WGY WHK WIZ WMAO

ED-8:00 p.m., E-7:00, C-6:00, M-5:00 R — "Believe-it-or-not." Ripley KANS KDYL KFYR KGNC KOA WAPI 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 WPTF WRC WSB WSMB WOW 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 WISN WJAS WJR WJSV WHP 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 WWL

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 WIS WMAL WMC WMT WOAI WOOD WPTF WREN WRVA WSB WSMB WSOC WSUN WSYR WTAR WWNC WXYZ

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 WCAO WCAU 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 WWVA

ED-10:00 p.m., E-9:00, C-8:00, M-7:00 C — Your Hit Parade

C — Your Hit Parade KERN KFAB KFBK KFH KFPY KFRC KGB KGKO KGMB KHJ KLRA KLZ KMBC KMJ KAOX KOH KOIN KOL KOMA KRLD KRNT KSCJ KSL KTRI KTSA KTUL KVJ KVOG KWG KWGH WABG WACO WADC WALA WBBM WDIC WBNS WBDC WBT WCAO 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 WHEC WHK WHP WIBW WIBX WICC WISN WJAS WJR WJSV WKBW WKRC WLAC WLBZ WMAS WMBR WNAC WMBD WMBG WNAX WNOX WOC WOKO WORC WPG WOAM WREC WSBT WSFA WSJS WSPD WTOC WWL WWVA

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

В-- 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 n.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-Midn't., E-11:00, C-10:00, M-9:00

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

- "Believe-It-Or-Not" Ripley R-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 WMBR WKRC WLBZ WMBD 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 — Salt 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 WSIS 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 WXYZ

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

C --- Jean Hersholt, "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 WFBL WFBM WGAR WGST WHAS WHEC WHIO WHP WIBW WJAS WJR WJSV WKBW WKRC WLAC WLBZ 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 KTRII KTSA KWKH WABC WADC WALA WBNS WBT WCAO WCCO WCHS WDAE WDBJ WDBO WDRC WEEI WESG WFBL WFBM WHAS WHK WHP WIBW WIBX WJAS WJR WJSV 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

Ω. The Radio News Reel 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 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 WEEI WGAR WGR WGST WHAS WHEC WHIO WJAS WJR WJSV WKRC WHBR WOKO WPRO WOAM 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 JyJR WJSY WMAS WOKO WORC WSPD WWA

B — Smiling Ed McConnell

KANS KDKA KECA KERN KEX KFBK KFSD KFYR KGA KGIR KGO KJR KLO KMJ KGIL 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 WSAT WSPD WSYR WTCN WXYZ

R — Mickey Mouse Theater KANS KDYL KFI KGNC

KANS KDYL KFI KGNC KGW KHQ KOA KOMO KPO KPRC KSD KSTP KVOO KYW WAVE WBAP WBEN WBRC WCAE WCSHI WDAF WDEL WEAF WFBC WFBR WFLA WGY WHO WIBA WIOD WIRE WIS WJAR WJAX WKY WLW WMAQ WMBG WMCC 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

 $C \rightarrow Joe$ Penner; Lene Austin: KFAB KFPY KGLO KLZ KMBC KMOX KNOW KNX KOIN KOL KOMA KRLD KKNT KSFO KSL KTRH KTSA KVI WABC WBBM WBNS WBRC WBT WCAO WCAU WCCO WDAE WDBO WDRC WEEH WFBL WFIM 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 WWJ

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 KNLD 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 WHAK 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 WWYA

B — 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 WEBA WICC WIOD WIS WJAX WJDX WJZ WKY WLEU WLS WMAL WMC WAT 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 KPOC 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 Network

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 KIJ 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 WDT WCAO WCAU WCCO WCOA WDAE WDBJ WDBO WDNC WDOD WDRC WEAN WFBL WFRM WFEA WGR WGST WHAS WHCC WISA WJAS WJR WJSV WKEN WKRC WLAC WLBZ WJAS WMBD WMBR WAC WNAX WOC WOKO WORC WQAM WRCC WSBT WSFA WSJS WSPD WTOC WWL WWVA

B — 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 WNYZ

R — Manhattan Merry-Go-Round CFCF KDYL KFI KFYR KGW KHQ KOA KOMO KPO KPPC KSD KSTP KTBS KTHS KYW WAVE

WBEN WCAE WCKY WCSH WDAF WDAY WEAF WEBC WEEI WFAA WFDR 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 WHC 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 WFBC WEEI WFAA WFBR WFLA WGY WHO WIBA WIOD WIS WJAR WJAN WJDX WKY WNAQ WNIC WOAI WOW WPTF WRC WRYA WSAI WSB WSM WSMC WTAG WTAM WTAR WTMJ WWJ WWNC

B — Walter Winchell

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

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

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 WBA 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 KEN KFBR 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 Allen, 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 Fannie Brice, 9 p.m. Thurs., Red Henry Burbig, 7:45 p.m. Wed., Red Bob Burns, 10:00 p.m. Thurs., Red Burns and Allen, 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 Arlene Harris, 9 and 12 p.m. 1025, 000 George Jessel, 6:00 p.m. Sun., MBS Al Joison, 8:30 and 11:30 p.m. Tues., CBS Lew Lebr, 8:30 and 11:30 p.m. Tues., 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 Rines, 5:30 p.m. Sun., Red

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. Philharmonic, 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

- Ben Bernie, 8:30 and 11:30 p.m. ven., 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
- Johnny Trotter, 10:00 p.m. Ked Johnny Trotter, 10:00 p.m. Thurs., 1 Tornmy Tucker, 6:00 p.m. Sun., MBS Red
- 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

Amos 'n' Andy, 7:00 and 11:00 p.m. Mon. through Fri., Red

Easy Aces, 7:00 p.m. Tues., Wed., Thurs., Blue Fiber 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. Fri., Red Gang Busters, 10:00 p.m. Fri., Blue Gang Busters, 10:00 p.m. Wed., CBS Eddie Guest, 10:30 p.m. Wed., CBS Jean Hersholt, 2:30 p.m. Sun., CBS Hollywood Hotel, 9:00 p.m. Fri., CBS Hollywood Playhouse, 9:00 and 11:30 p.m. Sun., Blue Lone Ranger, 7:30 and 10:30 p.m. Mon., Wed., Fri., 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 Irenc Rich, 9:45 and 11:00 p.m. Sun., Blue Edward G. Robinson, 8:00 p.m. Sun., Blue Edward G. Robinson, 8:00 p.m. Tues., CBS A Tale of Today, 6:30 p.m. Sun., 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' Amateurs, 9:00 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. Fri., 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 Musie 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
- Sait Lake City Tabernacie, 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
- Volce 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

SINGER

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. Frl., CBS Richard Crooks, 8:30 p.m. Mon., Red Bing Crosby, 10:00 p.m. Thurs., Red Dean 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., CBS 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 Joison, 8:30 and 11:30 p.m. Tues., CBS Alan Jones, 9 p.m. Thurs., Red Reed Kennedy, 10:00 p.m. Fri., CBS Protocol Lamour, 8:00 p.m. Fri, Che Frances Langford, 9:00 p.m. Sun., Red Frances Langford, 9:00 p.m. Sun., Red Pierre Le Areeun, 5:00 p.m. Sun, 1:00 Luliaby Lady, 10:00 p.m. Mon.; Red Lulu Belle, 9:00 and 11:00 p.m. Sat., Biue 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 Carnegie, 10:45 p.m. Tues., Red
- Boake Carter, 6:30 and 8:45 p.m. daily, CBS Jimmy Fidler, 10:30 p.m. Tues., Frl., Red
- Gabriel Heatter, 7:30 and 10:30 p.m. Thurs., CBS
- John B. Kennedy, 8:00 p.m. Sun., Blue
- Geo. McCali, 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

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 of applying the finishing touches, and barring unforeseen delays, the \$600.000 air-conditioned structure will be dedicated and 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 headquar-The studios are completelyters. isolated shells protected against shocks and vibrations by an elaborate system of springs.

As shown in the Index by Frequencies and Dial Numbers

KEY TO SYMBOLS

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.

b Verifics only Does not verification Verification Sends own for 10c. Sends own for 5c. Sends own for postag Has no stam Werifies for	ption for return occasionally. rify. 10c; letter 25c. station stamp station stamp e. ps. jc.	only.	 Is Sy Synchronized. ork. X Has permit to increase power. Y Has permit to change lo- cation. Z Has permit to change fre-
540 kcys.	(555.2)		
CJRM ak 100 ZNS ak 40		a, Sask. —9:30 am- u, Bahamas —1:30 pm-	
550 kcys.	(545.1)	1	
CFNB ak 50 KFUO ak 50 KFYR ak 100 KOAC ak 100 KSD ak 100	0 F (1) Freder 0 2 (1) St. Lo 0 N (5) Bisma 0 Corva	ricton, N. B. —7:00 am- uis, Mo. —8:00 am- urck, N. Dak. —8:00 am- liis, Ore. —Noon—M uis, Mo. ntonio, Tex.	-Midnight -1:00 am
KTSA ak 100 WDEV ak 50 WGR ak 100 WKRC ak 100 WSVA ak 50 XEFC ak 10	00 D Water 00 C (5) Buffal 00 C (5) Cincir 00 D Harris	bury, Vt.	-midnight
560 kcys. KFDM ak 56 KLZ ak 100 KSFO ak 500 WFIL ak 100 WIND ak 100 WIND ak 100 WOAM ak 100	10 (1) N Beau 10 C (5) Denve 10 C (5) San F 10 D Spring 10 D Spring 10 BM Philao 10 (5) Gary, 10 N (5) Column	nbia, S. C. — 7:00 am-	4:00 am
570 kcys.	(526.0)		
KMTR ak 10 KVI ak 10 WKBN ak 5 WMCA ak 10 WNAX ak 10	50 CXY(1) Wict 00 Los A 00 C (5) Tacor 00 C1 Youn 00 New `` 00 Youn 00 New `` 00 New `` 00 Yank 50 1 (1) Colunt 00 B (WSYU) Sy Sy	na, Cuba nita Falls, Tex. ngeles, Calif. na, Wash. —9:00 am- gstown, Ohio York, N. Y. ton, S. Dak. —6:45 am- nbus, Ohio —9:00 am- racuse, N. Y. —7:00 am- rille, N. C. —7:30 am-	
580 kcys.	(516.9)		
CFPR ak CHRC ak 1 CKCL ak 1	50 Princ 00 Queb 00 F Toror 00 F Edma	ec, P. Q8:00 am	—midnight —midnight —midnight ——3:00 am

KSAC	ak 500	2(1)	Manhattan, Kans.	-10:30 am-6:30 pm
WCHS	ak 500	2 (1) C (1) C(5)	Manhattan, Kans. Charleston, W. Va.	
WDBO WIBW	ak 1000 ak 1000	C(5)	Orlando, Fla. Topeka, Kans. Urbanā, III.	-7:00 am-midnight
WILL	ak 1000 ak 1000	2C (5) D	Ilthana Hi	
WTAG	ak 1000	Ř	Worcester, Mass.	-7:30 am-1:00 am
XELO	ak 10000		Tijuana, B. Cfa. Piedras Negras, Coah	
XEMU	z 250		Piedras Negras, Coah	-
590 1	kcys.	(508.)	2)	
кно	ak 1000	R (5) C (5)	Spokane, Wash.	
WEEI WKZO	ak 1000	C (5) BDX	Boston, Mass.	-6:45 am
WOW	ak 1000 ak 1000	BDX R (5)	Kalamazoo, Mich. Omaha, Nebr.	
	ak 1000	K (0)		7.00 am 5.50 am
	ccys.			
CFCF	ak 500	BF	Montreal, P. Q.	7 45
CJOR CMQ	ak 500 ak 25000	* • • •	Vancouver, B. C. Havana, Cuba	-7:45 am-1:00 am
FON	ad 250	609	St. Pierre, Miquelon	
KFSD	ak 1000	В	St. Pierre, Miquelon San Diego, Calif. Baltimore, Md.	
WCAO	ak 500 ak 500	C (1)	Baltimore, Md.	6.00 ama 1.00 ama
WICC WMT	ak 500 ak 1000	BM (5	Cedar Rapids Iowa	
WREC	ak 1000	C (5)) Bridgeport, Conn.) Cedar Rapids, Iowa Memphis, Tenn.	-7:30 am-1:00 am
XEOJ	Z			
XET	ak 5000		Monterrey, N. L.	
610 1	kcys.	(491.	5)	
KFRC	c 1000	M (5)	San Francisco, Cal.	
WCLE	ak 500	DM	Cieveland, Ohio.	6:45 amss
WDAF WIOD	ak 1000 ak 1000	R (5)	Kansas City, Mo. (BF) Miami, Fla.	-7:30 am-1:00 am
WIP	ak 1000	14(44.141	Philadelphia Pa	
XEXM XEYO	z 500	2	Mexico City, D. F. Mexico City, D. F.	
XEYO	z 500	2	Movico City D K	The second secon
		2	meater only, b. F.	· · · · · · · · · · · · · · · · · · ·
620 1		(483.)		
KGW	ACYS.	(483.) R (5)	6) Portland, Ore.	—9:00 am—2:00 am
KGW KTAR	ACYS. ak 1000 ak 1000	(483.) R (5) N	6) Portland, Ore.	9:00 am2:00 am 9:00 am1:15 am
KGW KTAR TIPG	ACYS. ak 1000 ak 1000 z 2000	(483.) R (5) N 625	6) Portland, Ore.	9:00 am2:00 am 9:00 am1:15 am
KGW KTAR TIPG WFLA WHJB	XCYS. ak 1000 ak 1000 z 2000 ak 1000 ak 250	(483.) R (5) 625 Na (5) CD	6) Portland, Ore. Phoenix, Ariz. San Jose, Costa Rica Tampa, Fla. Greensburg, Pa.	9:00 am2:00 am 9:00 am1:15 am
KGW KTAR TIPG WFLA WHJB WLBZ	AK 1000 ak 1000 z 2000 ak 1000 ak 250 ak 500	(483.) R (5) 625 Na (5) CD CD	6) Portland, Ore. Phoenix, Ariz. San Jose, Costa Rica Tampa, Fla. Greensburg, Pa. Banéor, Maine	9:00 am2:00 am 9:00 am1:15 am 7:00 am1:00 am 8:00 am5:00 pm
KGW KTAR TIPG WFLA WHJB WLBZ WSUN	ACYS. ak 1000 ak 1000 z 2000 ak 1000 ak 250 ak 500 ak 1000	(483.) R (5) 625 Na (5) CD CM (1) Na (5)	6) Portland, Ore. Phoenix, Ariz. San Jose, Costa Rica Tampa, Fla. Greensburg, Pa. Banéor, Maine	—9:00 am—2:00 am —9:00 am—1:15 am —7:00 am—1:00 am
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KGW KTAR TIPG WFLA WHJB WSUN WTMJ 630 1 CFCO CFCY CJRC CKOV CMCD KFRU KGFX WGBF WMAL	ACYS. ak 1000 ak 1000 z 2000 ak 1000 ak 250 ak 1000 ak 1000 ak 1000 ak 1000 ak 250 ak 250 ak 500 ak 250 ak 500 ak 250 ak 1000 ak 250 ak 250	(483.) R (5) R (5) R (625 Na (5) CD CM (1) Na (5) N (5) (475.) F F F F (1) F I (1) D N1 (1)	6) Portland, Ore. Phoenix, Ariz. San Jose, Costa Rica Tampa, Fla. Greensburg, Pa. Bangor, Maine St. Petersburg, Fla. Milwaukee, Wis. 9) Chatham, Ont. Charlottetown, P.E.I Winnipeg, Man. Kelowna, B. C. Havana, Cuba Columbia, Mo. Pierre, S. Dak. Evansville, Ind. Washington, D. C.	9:00 am-2:00 am -9:00 am-1:15 am -7:00 am-1:00 am -8:00 am-5:00 pm -7:00 am-1:00 am -7:15 am-1:30 am -9:00 am-11:00 pm -8:30 am-2:00 am -11:00 am-11:30 pm -7:00 am-9:30 pm -7:00 am-9:30 pm
KGW KTAR TIPG WFLA WHJB WLBZ WSUN WTMJ 630 1 CFC0 CFCY CJRC CCFCY CCFCY CMCD KFRU KGFX WGBF	ACYS. ak 1000 z 2000 ak 250 ak 500 ak 500 ak 1000 ak 1000 ak 1000 ak 1000 ak 500 ak 500 ak 500 ak 500 ak 500 ak 500	(483.(R (5) N (5) CD CD CD CD CM (1) Na (5) N (5) (475.(F F (1) F F (1) F (1) D (1) B (.5) C (1) C (1)	 6)	9:00 am-2:00 am 9:00 am-1:15 am 7:00 am-1:00 am 8:00 am-5:00 pm 7:00 am-1:00 am 7:15 am-1:30 am 9:00 am-11:00 pm 8:30 am-2:00 am 11:00 am-1:30 am 10:00 am-1:30 pm 7:00 am-9:30 pm
KGW KTAR TIPG WFJA WHJB WLBZ WSUN WTMJ 630 1 CFCO CFCY CKOV CFCY CKOV CMCD KFRU KGFX WGBF WMAL WPRO	ACYS. ak 1000 z 2000 ak 1000 ak 250 ak 500 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 500 ak 500 ak 500 ak 250 ak 500 ak 500 ak 500	(483.) R (5) R (5) R (625 Na (5) CD CM (1) Na (5) N (5) (475.) F F F F (1) F I (1) D N1 (1)	6) Portland, Ore. Phoenix, Ariz. San Jose, Costa Rica Tampa, Fla. Greensburg, Pa. Bangor, Maine St. Petersburg, Fla. Milwaukee, Wis. 9) Chatham, Ont. Charlottetown, P.E.I Winnipeg, Man. Kelowna, B. C. Havana, Cuba Columbia, Mo. Pierre, S. Dak. Evansville, Ind. Washington, D. C.	9:00 am-2:00 am -9:00 am-1:15 am -7:00 am-1:00 am -8:00 am-5:00 pm -7:00 am-1:00 am -7:15 am-1:30 am -9:00 am-11:00 pm -8:30 am-2:00 am -11:00 am-11:30 pm -7:00 am-9:30 pm -7:00 am-9:30 pm
KGW KTAR TIPG WHJB WHJB WSUN 630 1 CFCO CFCY CARC CKOV CMCD KFRU KGFX WGBF WMAL WPRO XEZ	ACYS. ak 1000 ak 1000 z 2000 ak 1000 ak 250 ak 500 ak 1000 ak 1000 ak 1000 ak 1000 ak 250 ak 250 ak 500 ak 500	(483.(R (5) N (5) CD CD CD CD CM (1) Na (5) (475.(F F (1) F F (1) F T (1) D N1 (1) B (.5) C (1) P	6) Portland, Ore. Phoenix, Ariz. San Jose, Costa Rica Tampa, Fla. Greensburg, Pa. Bangor, Maine St. Petersburg, Fla. Milwaukee, Wis. 9) Chatham, Ont. Chatham, Ont. Chathottetown, P.E.I Winnipeg, Man. Kelowna, B. C. Havana, Cuba Columbia, Mo. Pierre, S. Dak. Evansville, Ind. Washington, D. C. Providence, R. I. Merida, Yuc. Havana, Cuba	9:00 am-2:00 am -9:00 am-1:15 am -7:00 am-1:00 am -8:00 am-5:00 pm -7:00 am-1:00 am -7:15 am-1:30 am -9:00 am-11:00 pm -8:30 am-2:00 am -11:00 am-11:30 pm -7:00 am-9:30 pm -7:00 am-9:30 pm
KGW KTAR TIPG WFLA WHJB WLBZ WSUN WTMJ 630 1 CFCO CFCY CJRC CKOV CHCC CKOV CHCC CKOV KFRU KGRL WGBF WMAL WPRO XEZ	KCYS. ak 1000 ak 1000 ak 1000 ak 250 ak 250 ak 500 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 500 ak 200 ak 200 ak 200 ak 250 ak 500	(483.(R (5) 625 Na (5) CD CD (CD (1)) Na (5) N (5) (475.(FF F (1) F f(1) D N1 (1) B (.5) C (1) P (468.(6)	9:00 am-2:00 am 9:00 am-1:15 am 7:00 am-1:00 am 8:00 am-5:00 pm 7:00 am-1:00 am 7:15 am-1:30 am 9:00 am-11:00 pm 9:00 am-1:30 am 11:00 am-2:00 am 7:00 am-2:00 am 7:00 am-2:00 am
KGW KTAR TIPG WHJB WHJB WSUN 630 1 CFCO CFCY CARC CKOV CMCD KFRU KGFX WGBF WMAL WPRO XEZ	ACYS. ak 1000 ak 1000 z 2000 ak 1000 ak 250 ak 500 ak 1000 ak 1000 ak 1000 ak 1000 ak 250 ak 250 ak 500 ak 500	(483.(R (5) N (5) CD CD CD CD CM (1) Na (5) (475.(F F (1) F F (1) F T (1) D N1 (1) B (.5) C (1) P	6) Portland, Ore. Phoenix, Ariz. San Jose, Costa Rica Tampa, Fla. Greensburg, Pa. Bangor, Maine St. Petersburg, Fla. Milwaukee, Wis. 9) Chatham, Ont. Chatham, Ont. Chathottetown, P.E.I Winnipeg, Man. Kelowna, B. C. Havana, Cuba Columbia, Mo. Pierre, S. Dak. Evansville, Ind. Washington, D. C. Providence, R. I. Merida, Yuc. Havana, Cuba	-9:00 am-2:00 am -9:00 am-1:15 am -7:00 am-1:00 am -8:00 am-5:00 pm -7:15 am-1:30 am -9:00 am-11:00 pm -9:00 am-11:00 pm -11:00 am-1:30 am -11:00 am-2:00 am -11:00 am-1:30 pm -7:00 am-1:30 pm -7:00 am-1:30 pm -7:00 am-1:30 pm -7:00 am-1:30 pm -6:30 am-2:00 am -7:00 am-1:00 am
KGW KTAR WHJBC WHJB WLBZ WSUN 630 1 CFCO CFCY CJRC CFCY CJRC CKOV CMCD KFRU WFMO XEZ 640 1 KFI WGAN KFI	ACYS. ak 1000 ak 1000 z 2000 ak 1000 ak 250 ak 500 ak 1000 ak 1000 ak 1000 ak 1000 ak 250 ak 500 ak 500	$(483.($ R (5) N N S O	6) Portland, Ore. Phoenix, Ariz. San Jose, Costa Rica Tampa, Fla. Bangor, Maine St. Petersburg, Pa. Bangor, Maine St. Petersburg, Fla. Milwaukee, Wis. 9) Chatham, Ont. Chatham, Ont. Chatlottetown, P.E.I Winnipeg, Man. Kelowna, B. C. Havana, Cuba Columbia, Mo. Pierre, S. Dak. Evansville, Ind. Washington, D. C. Providence, R. I. Merida, Yuc. Havana, Cuba 5) Los Angeles, Calif. Portland, Maine Columbus, Ohio	9:00 am-2:00 am 9:00 am-1:15 am 7:00 am-1:00 am 8:00 am-5:00 pm 7:00 am-1:00 am 7:15 am-1:30 am 9:00 am-11:00 pm 9:00 am-1:30 am 11:00 am-2:00 am 7:00 am-2:00 am 7:00 am-2:00 am
KGW KTAR TIPG WHJB WHZ WHJB WHZ WHZ WHZ CFCO CFCY CJRC CFCY CJRC CFCY CJRC CFCY CJRC CKOV KGFX WGAD KGFI WHAL WFRO XEZ CHON CHON KGAN WHA KGAN WHA KGAN WHA KGAN WHA KGAN KGAN KGAN KGAN KGAN KGAN KGAN KGA	ACYS. ak 1000 ak 2000 ak 2000 ak 2000 ak 200 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 500 ak 500 ak 500 ak 50000 z 10000 Ak 50000 z 5000 ak 50000 ak 50000 ak 50000 ak 50000 ak 50000 ak 50000 be ak 500000 be ak 50000 be ak 500000 be ak 50000 be ak 500000 be ak 5000000 be ak 5000000 be ak 500000 be ak 500000 be ak 500000 be ak 500000 be ak 5000000 be ak 500000 be ak 50000000 be ak 50000000000 be ak 500000000000000000000000000000000000	(483.(R (5) 8625 Na (5) CD CD CD CD CD CD CD CD CD CD	 6)	-9:00 am-2:00 am -9:00 am-1:15 am -7:00 am-1:00 am -8:00 am-5:00 pm -7:15 am-1:30 am -9:00 am-11:00 pm -9:00 am-11:00 pm -11:00 am-1:30 am -11:00 am-2:00 am -11:00 am-1:30 pm -7:00 am-1:30 pm -7:00 am-1:30 pm -7:00 am-1:30 pm -7:00 am-1:30 pm -6:30 am-2:00 am -7:00 am-1:00 am
KGW KTAR WHJBC WHJB WLBZ WSUN 630 1 CFCO CFCY CJRC CFCY CJRC CKOV CMCD KFRU WFMO XEZ 640 1 KFI WGAN KFI	KCYS. ak 1000 ak 1000 ak 1000 ak 2000 ak 1000 ak 500 ak 1000 ak 1000 ak 1000 ak 1000 ak 500 ak 500 ak 500 ak 500 z 10000 XCYS. ak ak 500 ak 500 ak 500 ak 500 ak 5000	$(483.($ R (5) N N S O	 6)	-9:00 am-2:00 am -9:00 am-1:15 am -7:00 am-1:00 am -8:00 am-5:00 pm -7:15 am-1:30 am -9:00 am-11:00 pm -9:00 am-11:00 pm -11:00 am-1:30 am -11:00 am-2:00 am -11:00 am-1:30 pm -7:00 am-1:30 pm -7:00 am-1:30 pm -7:00 am-1:30 pm -7:00 am-1:30 pm -6:30 am-2:00 am -7:00 am-1:00 am
KGW KTAR TIPG WFLA WHJB WLBZ WSUN WTMJ 630 1 CFC0 CFCY CJRC CFCY CJRC CFCY CARC CKOV CMCD KFRU KFRU WPRO XEZ KFRU KFRU WMAL KFR WMAL KFR WMAL KFR WMAL KFR WMAL KFR WMAL KFR WMAL KFR WMAL KFR KFR WMAL KFR KFR KFR KFR KFR KFR KFR KFR KFR KFR	KCYS. ak 1000 ak 1000 ak 1000 ak 2000 ak 1000 ak 500 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 500	(483.(R (5) 8625 Na (5) CD CD CD CD CD CD CD CD CD CD	 6)	-9:00 am-2:00 am -9:00 am-1:15 am -7:00 am-1:00 am -8:00 am-5:00 pm -7:15 am-1:30 am -9:00 am-11:00 pm -9:00 am-11:00 pm -11:00 am-1:30 am -11:00 am-2:00 am -11:00 am-1:30 pm -7:00 am-1:30 pm -7:00 am-1:30 pm -7:00 am-1:30 pm -7:00 am-1:30 pm -6:30 am-2:00 am -7:00 am-1:00 am
KGW KTAR TIPG WFLA WHJB WLRZ WSUN WTMJ 630 1 CFCO CFCY CJRC CFCY CJRC CKOY CJRC CKOY CHCD KFRU KGFX WGAN WHKO WHKC WGAN WHKC WGAN WHKC WOI XEBX YSS 650 1	KCYS. ak 1000 ak 1000 ak 1000 ak 500 ak 500 ak 1000 ak 500 ak 500 ak 500 z 5000 z 5000 ak 5000 z 5000 ak 500	(483.(R (5) 8 (5) 8 (25) CD CD CD CM (1) N (5) (475.(F F F (1) F F (1) F (1) F (1) (2) (1) (1) (1) (2) (1) (2) (2) (1) (2) (2) (3) (3) (475.((3) (475.((1) (1) (3) (475.((1) (1) (3) (475.((1) (1) (3) (475.((1) (1) (3) (475.((1) (1) (3) (3) (475.((1) (3) (3) (475.((1) (3) (3) (475.((1) (3) (3) (475.((1) (3) (3) (3) (3) (475.((1) (3) (3) (3) (475.((1) (3) (3) (3) (3) (3) (3) (3) (475.((1) (3) (3) (3) (3) (3) (475.((1) (3) (3) (3) (3) (3) (3) (3) (3) (3) (468.((3) (3) (3) (468.((3) (3) (3) (468.((3) (3) (3) (468.((3) (3) (3) (468.((3)	 6)	-9:00 am-2:00 am -9:00 am-1:15 am -7:00 am-1:00 am -8:00 am-5:00 pm -7:15 am-1:30 am -9:00 am-11:00 pm -9:00 am-11:00 pm -11:00 am-1:30 am -11:00 am-2:00 am -11:00 am-1:30 pm -7:00 am-1:30 pm -7:00 am-1:30 pm -7:00 am-1:30 pm -7:00 am-1:30 pm -6:30 am-2:00 am -7:00 am-1:00 am
KGW KTAR TIPG WFLA WHJB WLBZ WSUN WTMJ 630 1 CFC0 CFCY CJRC CFCY CJRC CFCY CARC CKOV CMCD KFRU KFRU WPRO XEZ KFRU KFRU WMAL KFR WMAL KFR WMAL KFR WMAL KFR WMAL KFR WMAL KFR WMAL KFR WMAL KFR KFR WMAL KFR KFR KFR KFR KFR KFR KFR KFR KFR KFR	KCYS. ak 1000 ak 1000 ak 1000 ak 2000 ak 1000 ak 500 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 500	(483.(R (5) 8 (5) 8 (25) CD CD CD CM (1) N (5) (475.(F F F (1) F F (1) F (1) F (1) (2) (1) (1) (1) (2) (1) (2) (2) (1) (2) (2) (3) (3) (475.((3) (475.((1) (1) (3) (475.((1) (1) (3) (475.((1) (1) (3) (475.((1) (1) (3) (475.((1) (1) (3) (3) (475.((1) (3) (3) (475.((1) (3) (3) (475.((1) (3) (3) (475.((1) (3) (3) (3) (3) (475.((1) (3) (3) (3) (475.((1) (3) (3) (3) (3) (3) (3) (3) (475.((1) (3) (3) (3) (3) (3) (475.((1) (3) (3) (3) (3) (3) (3) (3) (3) (3) (468.((3) (3) (3) (468.((3) (3) (3) (468.((3) (3) (3) (468.((3) (3) (3) (468.((3)	 6)	-9:00 am-2:00 am -9:00 am-1:15 am -7:00 am-1:00 am -8:00 am-5:00 pm -7:15 am-1:30 am -9:00 am-11:00 pm -9:00 am-11:00 pm -11:00 am-1:30 am -11:00 am-2:00 am -11:00 am-1:30 pm -7:00 am-1:30 pm -7:00 am-1:30 pm -7:00 am-1:30 pm -7:00 am-1:30 pm -6:30 am-2:00 am -7:00 am-1:00 am

660 kcys. (454.	3)	
WAAW ak 500 D WEAF ak 50000 R XEAL z 1000 XEAO ak 250	Omaha, Nebr. New York, N. Y. Mexico City, D. F. Mexicali, B. Cfa.	—7:00 am—ss —7:30 am—1:00 am
670 kcys. (447. WMAQ ak 50000 R	5) Chicago, III.	
680 kcys. (440. CMBQ z 5000 P	Havana, Cuba	
CMCG ak 1000 KFEQ ak 2500 D KPO ak 50000 R VAS akn 2000 685 VOWR ck 500 681	Havana, Cuba St. Joseph, Mo. San Francisco, Cal. Glace Bay, N. S. St. John's, Nfld. Lawrence, Mass. Raleigh, N. C.	—7:00 am—midnight —7:00 am—ss —11:00 am—3:00 am
VOWR ck 500 681 WLAW z 1000 D WPTF ak 1000 N (5)		6:30 am11:00 pm
690 kcys. (434.	5)	
CFRB ak 10000 C CJCJ ak 100 F	Toronto, Ont. Calgary, Alta.	—8:00 am—midnight —9:30 am—1:00 am
700 kcys. (428.	3)	
•	V8XO) Cincinnati, O.	—5:45 am—1:30 am
710 kcys. (422.	3)	
KIRO ak 1000 C KMPC ak 500 WOR ak 50000 M	Seattle, Wash. Beverly Hills, Calif. Newark, N. J.	—9:00 am—5:00 am —9:00 am—4:00 am —2:00 am
720 kcys. (416.	4)	
CMK ak 3000 WGN ak 50000 M XEH ak 250	Havana, Cuba Chicago, III. Monterrey, N. L.	—10:00 am—9:00 pm
730 kcys. (410.	7)	
CFPL ak 100 F CJCA ak 1000 F CKAC ak 5000 C CKPR ak 100 F CMCL z 10000 P XEPN ak 100000	London, Ont. Edmonton, Alta. Montreal, P. Q. Fort William, Ont. Havana, Cuba Piedras Negras, Coah Rosarito Bch., B. Cfa	-9:00 am-3:00 am -9:00 am-2:00 am -7:30 am-1:00 am -9:00 am-11:00 pm
XERB z 100000	Rosarito Bch., B. Cfa	
740 kcys. (405.		
KMMJ ak 1000 D KTRB ak 250 D WHEB ak 250 D WSB ak 50000 R	Clay Center, Nebr. Modesto, Calif. Portsmouth, N. H.	-6:00 am- -9:00 am-8:30 pm
	Atlanta, Ga.	6:55 am-1:00 am
750 kcys. (399.	8)	
CMBL z 2500 KGU aj 2500 N WJR ak 50000 C XEAA ak 200 XEAM z 25	Havana, Cuba Honolulu, Hawaii Detroit, Mick. Mexicali, B. Cfa. Matamoros, Tams.	—8:00 am—12:15 am —11:30 am—4:30 am —5:45 am—2:00 am
760 kcys. (394.	5)	
	Cienfuegos, Cuba	

KXA WBAL 250 ak (.5)X Seattle, Wash -6:00 pm BMSy Baltimore, Md. D St. Louis, Mo. BSy New York, N. Y. Tijuana, B. Cfa. -9:00 pm-1:00 am ak 2500 WEW ak 1000 -8:00 am-ss WJZ ak 50000 7:30 am-1:00 am XĚŐK ak 2500 All night station 770 kcys. (389.4) CMBF z 10000 Havana, Cuba Lincoln, Nebr. **KFAB** ak 10000 CSv -7:00 am-1:00 am WBBM ak 50000 ČŠv Chicago, Ill. 780 kcys. (384.4) CHWK dk 100 F Chilliwack, B. C. -11:00 am—1:15 am CKSO Ē ak 1000 Sudbury, Ont. Camaguey, Cuba ak 250 KEHE Los Angeles, Calif. Brookings, S. Dak. Anchorage, Alaska Billings, Mont. ak 1000 (5) KFDY ak 1000 Ď --1:30 pm--3 pm --11:00 pm---5:00 am --10:00 am---1:00 am KFOD KGHL ck 250 ak 1000 N (5) DP KWLK 250 7. Longview, Wash, BM (5) Providence, R. I. R (5) Memphis, Tenn. N Norfolk, Va. WEAN āk 1000 -6:00 am-WMC ak 1000 -7:45 am-1:00 am WTAR 1000 ak Mexico City, D. F. XEN ak 1000 790 kcys. (379.5)CMGH ak 500 Matanzas, Cuba -10:00 am-3:00 am KGO ak 7500 R San Francisco, Cal. -7:00 am-1:00 am KOAM WG Y 1000 ΰN Z Pittsburg, Kans. ak 50000 R Schenectady, N. Y. -7:00 am—1:00 am 800 kcys. (374.8) H1X WBAP ak 800 Trujillo, D. R. Fort Worth, Texas ak 50000 Na -6:45 am-midnight WFAA ak 50000 Na Dallas, Texas -9:00 am-12:30 am WTBO ak 250 D Cumberland, Md. -8:30 am-ss 810 kcys. (370.2) CMCF 600 х ak Havana, Cuba WCCO WNYC ak 50000 Ĉ Minneapolis, Minn. – New York, N. Y. – Mexico City, D. F. – Nuevo Laredo, Tams. – -7:30 am-1:00 am 1000 D ak 7:00 an1-7:00 pm XEBZ XEDF 100 ad 100 z -11:00 am--8:15 pm 820 kcys. (365.6)CMHW 100 ak Santa Clara, Cuba Louisville, Ky. WHAS ak 50000 Ċ -6:45 am-... XEBG Tijuana, B. Cfa. 1000 7. 830 kcys. (361.2) CMJX 500 ak Camaguey, Cuba -9:00 am-11:30 pm KOA ak 50000 R Denver, Colo. 2:00 am WEEU ak 1000 Đ Reading, Pa. Boston, Mass -8:00 am 5:00 pm WHDH ak 1000 Dn WRUF ak 5000 Dn Gainsville, Fla. 7:00 am-6:30 pm 840 kcys. (356.9)ak 50000 ÷ CBL F Toronto, Ont. ČFŐC VOGY 1000 Saskatoon, Sask, St. John's, Nfld. \mathbf{ak} Ē ak 400 ck 250000 XĒRĀ Villa Acuna, Coah. -All night station 850 kcys. (352.7) CMCM ak Havana, Cuba -8:00 am-midnight KIEV ak 250 D Glendale, Calif. Elmira, N. Y. WESG ak 1000 CD -7:30 am-6:00 pm

NORTH A	MERICAN D. C. S	TATIONS BT THE
WKAR ak 1000 D WWL ak 10000 CX	E. Lansing, Mich. New Orleans, La.	7:00 am5:00 pm 6:30 am1:00 am
860 kcys. (348	3.6)	
WABC ak 50000 C (W WHB ak 1000 DM XEMO ak 5000 XENC z 50	VBOQ) New York, N. Y. Kansas City, Mo. Tijuana, B. Cfa. Mexico City, D. F.	7:30 am1:00 am 9:45 am3:00 am
870 kcys. (344	.6)	
WENR ak 50000 Ba WLS ak 50000 Ba XEFB ak 200 XEJW z 500	Chicago, 111. Chicago, 111. Monterrey, N. L. Mexico City, D. F.	Noonmidnight 6:30 am3:00 pm
880 kcys. (340).7)	
CBO ak 1000 F CFJC ak 1000 F CMW ak 1000 X KFKA ak 500 2M KLX ak 1000 KPOF ak 1000 TIEP ak 1000 WCOCC ak 500 CX	Ottawa, Ont. Kamloops, B. C. Havana, Cuba (1) Greeley, Colo. Oakland, Calif. Denver, Colo. San Jose, Costa Ric (1) Meridian, Miss. I) Scranton, Pa. Scranton, Pa. Bichmond Va	10:30 ammidnight 12:30 pm1:15 am 7:00 ammidnight 7:30 am1:00 am 10:30 am2:30 am a
WGBI ak 500 C1 (WQAN ak 500 1 (1) WRNL ak 500 D WSUI ak 500 (1)	 Scranton, Pa. Scranton, Pa. Richmond, Va. Iowa City, Iowa 	
890 kcys. (336	5.9)	
KARK ak 500 N (1 KFNF ak 500 2 (1) KFPY ak 1000 C (5 KUSD ak 500 2 WGST ak 1000 C (1) WGST ak 1000 C (5	 Spokane, Wash. Vermillion, S. Dak. W. Lafayette, Ind. Atlanta, Ga. Providence, R. I. X Fairmont, W. Va. 	7:00 am1:00 am 6:30 am1:00 am 9:50 am3:00 am Noon6:00 pm 7:30 am1:00 am 7:00 am1:00 am
900 kcys. (333	3.1)	
KGBU ak 500 X KHJ ak 1000 M (i KSEI ak 250 (1)N WBEN ak 1000 R (5 WELI ak 500 D WJAX ak 1000 N (5 WKY ak 1000 N (5 WLBL ak 5000 D WTAD ak 1000 D	 Buffalo, N. Y. New Haven, Conn. Frederick, Md. jacksonville, Fla. 	4:00 am -9:30 am-1:00 am -7:00 am-1:00 am -6:00 am -ss -6:30 am -ss -6:45 am -1:00 am -7:45 am -1:00 am -9:00 am -5:00 pm -8:00 am -5:45 pm
910 kcys. (329	9.6)	
CBF ak 50000 FN CKY ak 15000 F CJAT ak 1000 F XENT ak 150000	Montreal, P. Q. Winnipeg, Man. Trail, B. C. Nuevo Laredo, Tams	
920 kcys. (32	5.9)	
CMX ak 1000 X KFEL ak 500 Ma KOMO ak 1000 R (5 KPRC ak 1000 R (5	Havana, Cuba Denver, Colo	—8:00 am—1:00 am —8:00 am—2:30 am
KVOD ak 500 Ba WAAF ak 1000 D WORL ak 500 D WPEN ak 1000 2	Denver, Colo. Chicago, III. Boston, Mass. Philadelphia, Pa.	6:00 am—ss
		66

	non	III A	VIERICAN B. C. S	TATIONS BI FRE
WRAX WSPA WWJ	ak 1000 ak 1000 ak 5000	2 D R	Philadelphia, Pa. Spartanburg, S. C. Detroit, Mich.	— 6:00 am—
9 30	kcys.	(322.	4)	
CFAC CFCH CFLC CHNS CKPC	ak 1000 ak 100 ak 100 ak 1000 ak 1000 ak 100	F F F F	Calgary, Alta. North Bay, Ont. Prescott, Ont. Halifax, N. S. Brantford, Ont.	9:00 am2:00 am 7:00 am10:00 pm 7:30 am11:00 pm
KMA KROW WBRC WDBJ XEBH	ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 500	(5) R(5) C (5)	Shenandoah, Iowa Oakland, Calif. Birmingham, Ala. Roanoke, Va. Hermosillo, Son.	6:00 am 9:00 am5:00 am 8:00 am12:30 am 7:00 am
940	kcys.	(319.	0)	
KOIN VOAS WAAT WAVE WCSH WDAY WHA WICA XEFO	ak 1000 ak 100 ak 500 ak 1000 ak 1000 ak 1000 ak 5000 ak 250 ak 5000	C (5) D R (2.5 N (5) D D	Portland, Ore. St. John's, Nfld. Jersey City, N. J. Louisville, Ky. Portland, Maine Fargo, N. Dak. Madison, Wis. Ashtabula, Ohio Mexico City, D. F.	6:30 am6:00 pm 8:001:00 am 8:00 ammidnight 6:00 am1:00 am 9:00 am5:30 pm
950 (kcys.	(315.	6)	
CJOC CMBC CRCK KFWB KMBC WHAL WRC	ak 100 z 10000 ak 1000 ak 1000 ak 1000 z 500 ak 500	F (5) C (5) DP RX (1	Lethbridge, Alta. Havana, Cuba Quebec, P. O. Hollywood, Calif. Kansas City, Mo. Saginaw, Mich.) Washington, D. C.	9:00 am1:00 am 6:55 ammidnight 9:30 am4:00 am 6:55 am1:00 am 6:00 am
		(312.		
CFRN CHNC CMKS CRCY XEAW	ak 100 ak 1000 z ck 100 c 100000	F F F	Edmonton. Alta. New Carlisle, P. Q. Guantanamo, Cuba Toronto, Ont. Reynosa. Tams.	9:30 am2:00 am 7:30 am11:00 pm 5:45 am
970	kcys. ((309.		
CMBY KJR WCFL WIBG	z 150 ak 5000 ak 5000 ak 100	B N D	Havana, Cuba Seattle, Wash, Chicago, III, Glenside, Pa.	-8:55 am-11:00 pm
980 1	kcys. ((306.	0)	
KDKA Xeac Xefe	bk 50000 ak 1000 z 250	B z	Pittsburgh, Pa. Tijuana, B. Cfa. Nuevo Laredo, Tams.	
9 90 1	kcys. ((302.)	8)	
WBZ WBZA XEAF XES	ak 50000 ak 1000 ak 750 ak 250	BSy BSy	Boston, Mass. Springfield, Mass. Nogales, Son. Tampico, Tams.	—6:00 am—1:00 am —6:00 am—1:00 am
1000	kcys.	(299		
CMBZ KFVD VOCM	ak 500 ak 1000 z 200	(1) X Dn 1006	Havana, Cuba Los Angeles, Calif. St. John's, Nfld.	—7:45 am—midnight —9:00 am—8:15 pm

	NORI	H AN	IERICAN B. C. S	TATIONS BT FREE
WHO XEBI	ak 50000 ak 25	R	Des Moines, Iowa Aguascalientes, Ags.	-8:00 am-2:00 am
1010	kcys.	(296	.9)	
CHML CKCD CKCK CKCO CKIC CCWX CMJA KGGF KQW WHN WNAD WNAD WNOX XEFQ XEU	ak 100 ak 100 ak 100 ak 100 ak 50 ak 100 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 250	F 1 F F 2M M (5) 2 C (5) 	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. Knoxville, Tenn. Cananea, Son. Veracruz, Ver.	
1020	kcys.	(293		
K YW WDZ XEJ	ak 10000 ak 250 ak 1000	R D	Philadelphia, Pa. Tuscola, Ill. Juarez, Chih.	—7:05 am—10:00 pm —7:00 am—6:00 pm
1030 CFCN CJBR CKLW CMCK XEB	kcys. ak 10000 z 1000 ak 5000 z ak 10000	(291 F M	.1) Calgary, Alta. Rimouski, P. O. 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 KRLD KWJJ KYOS WTIC		(288 c D R		7:00 am1:00 am All night station 6:00 am
1050	kcys.	(285	.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 DP	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	.2)	
CMBX CMHA KJBS WCAZ WTAM	ak 500 z 50 ak 500 ak 100 ak 50000	D R	Havana, Cuba Sagua la Grande, Cu San Francisco, Calif Carthage, Ill. Cleveland, Ohio	ba . —All night station —6:00 am—midnight
1080 wbt wcbd wmbi xeba xebk xedp	kcys. z 200 ak 50000 ak 5000 ak 5000 z 20 ak 100 ak 500	(277	7.6) Camaguey, Cuba Charlotte, N. C. Chicago, III. Chicago, III. Guzman, Jal. Nuevo Laredo, Tam. Mexico City, D. F.	6:30 am-midnight s.
				60

1090	kcys.	(275.1)	
	ak 50000		-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 Vancouver, B. C. DM Stockton, Calif. C Shreveport, La, 1 New York, N. Y. C1 Atlantic City, N. J. Merico City, D. F.	9:00 am ss 7:30 am1:00 am
1110	kcys.	(270.1)	
CMCJ KSOO WRVA	ak 500 ak 2500 ak 5000	X Havana, Cuba DnNX Sioux Falls, S. Dak. CM Richmond, Va.	—7:00 am—6:45 pm —7:00 am—midnight
1120	kcys.	(267.7)	
CHLP CHSJ CKOC CKX	ak 100 ak 500 ak 500 ak 1000	F Montreal, P. Q. F (1) St. John, N. B. F (1) Hamilton, Ont. F Brandon, Man.	—9:00 am—11:00 pm —5:00 am—midnight
CKX CMGF CMKM CRCS KFIO	ak 250 ak 200 ak 100 ak 100	Matanzas, Cuba. Manzanillo, Cuba F Chicoutimi, P. Q. D Snokane Wash	
KFSG KRKD KRSC KTBC	ak 500 ak 500 ak 250 z 1000 ak 500	a (2.5) Los Angeles, Calif. a (2.5) Los Angeles, Calif. Seattle, Wash. DP Austin, Texas D Boston, Mass.	—9:00 am—3:00 am —All night station
WCOP WDEL WISN	ak 250 ak 250	K (.5) Wilmington, Del. C (1) Milwaukee Wis	—8:00 am—4:00 pm —9:00 am—11:00 pm —8:00 am—1:00 am
WJBO WTAW	ak 500 ak 500	B Baton Rouge, La. College Sta., Tex.	-7:45 pm-1:00 am
1130	kcys.	(265.3)	
CMJI KSL WJJD	ak 150 ak 50000 ak 20000	Ciego de Avila, Cuba C Salt Lake City, Ut.	-8:30 am-3:00 am
WOV XEJP	ak 1000 z 100	Dn Chicago, HI. D New York, N. Y. Mexico City, D. F.	6:45 am6:45 pm
1140	kcys.	(263.0)	
CMCW KVOO	dk 500 ak 25000	NI Tulsa, Okla.	=-6:55 am—
WAPI WSPR	ak 5000 ak 500	Cl Birmingham, Ala. DM Springfield, Mass.	
1150	kcys.	(260.7)	
CMJF WHAM	z 200 ak 50000	B Rochester, N. Y.	-6:30 am-midnight
XEBP XEC XEDW	z 250 ak 100 z 20	Camaguey, Cuba B Rochester, N. Y, Durango, Dgo. Tijuana, B. Cfa. Minatitlan, Ver,	
1160	kcys.	(258.5)	
CMHJ CMKG	ak 175 z	Cienfuegos, Cuba Santiago, Cuba Bl Fort Wayne, Ind. Cl Wheeling, W. Va. Saltillo, Coah, Cuadalaira, Ial	
WOWO WWVA XEAS	ak 10000 ak 5000 ak 50	Bl Fort Wayne, Ind. Cl Wheeling, W. Va. Saltillo, Coah.	-6:00 am
XED XEFM XEP	ak 2500 z 20	Leon, Gto.	-Noon-midnight
ALP	ak 500	Juarez, Chih.	9:00 am2:00 am

				-
1170	kcys.	(256	3)	
CMBS WCAU	ak 150 ak 50000	X C	Havana, Cuba —8:00 am—midn Philadelphia, Pa. —6:00 am—1:00 a	
XEXX	z 1000	u	Philadelphia, Pa. —6:00 am—1:00 a Mexico City, D. F.	
		10 - 1		
1180	kcys.	(254	.1)	
СМЈО	ak 50		Ciego de Avila, Cuba	
KEX	ak 5000	B2	Portland, Ore.	
KOB WDG Y	ak 10000 ak 1000	N2 CDr/5	Albuquerque, N. M. —1:00 pm—11:00	pm
WINS	ak 1000	CDI(3	Albuquerque, N. M. —1:00 pm—11:00) Minneapolis, Minn. New York, N. Y.	
WMAZ	ak 1000	C(5)	Macon, Ga. —0:45 pm—7:00 p	m
XEFA	z 500	11111	Tacuba, D. F.	
1190	kcys.	(252	0)	
		(202		
CMKX KTKC	z ak 250	D	Santiago, Cuba Visalia, Calif.	
VONF	ak 500	1195	St. John's Nfld	
WATR	ak 100	DXZ	Waterbury, Conn.	
WOAI WSAZ	ak 50000 ak 1000	N	San Antonio, Tex7:30 am-12:30 Huntington, W. Va6:00 am-7:00 p	
1200	kcys.	(249	.9)	
OFCD		•		
CFGP CHAB	z 100 ak 100	F	Grande Prairie, Alta. Moose Jaw, Sask, -9:00 am-12:30	a m
CKNX CKTB	dk 100		Wingham, Ont	am
CKTB	ak 100	F	St. Catharines, Ont9:30 am-11:30	pm
CMCO KADA	ad 250 ak 100	DM	Havana, Cuba Ada, Okla.	
KBTM	ak 100	D	Jonesboro, Ark	
KDNC	z 100	(.25) P N	Lewistown, Mont.	
KELO KFJB	z 100 ak 100	N (.25)	Sioux Falls, S. Dak. Marshalltown, Ia. —7:00 am—10:00	
KFXD	ak 100	(.25)	Nampa, Idaho -8:00 am-11:00	pm
KFXJ	ak 100	(.25)	Grand Junc., Colo.	
KGCI KGDE	z 100 c 100	DP (.25)	Coeur d'Alene, Idaho Fergus Falls, Minn. —8:00 am—10:00	
KGEK	ak 100	()	Sterling, Colo.	pm
KGEK KGFJ	ak 100		Los Angeles Calif24 hours daily	
KGHI KGVL	ak 100 z 100	(.25) DP	Little Rock, Ark. —8:30 am—11:00 Greenville, Texas	pm
KMLB	ak 100	(25)	Monroe, La,	
KOOS	ak 100	(.25)	Marsh field, Ore10:00 am-7:45	
KSUN KVCV	ak 100 ak 100	(.25)	Lowell, Ariz. —11:00 am—mid Redding Calif	night
KVE C	ak 250	D	Redding, Calif. San Luis Obispo, Calif.	
KVOS	dk 100	M	Bellingham, Wash.	
KWG KWNO	ak 100 z 250	N D	Stockton, Calif. —10:00 am—3:00 Winona Minn	am
WABI	ak 100	(.25) C	Winona, Minn. Bangor, Maine	
WAIM	ak 100	C	Anderson, S. C. —6:00 am—10:00	pm
WAYX WBBZ	ak 100 ak 100	(.25) M (.25)	Waycross, Ga.) Ponca City, Okla. —8:00 am—10:00	pm
WBHP	ak 100	1.0.0	Huntsville, Ala.	
WBNO WCAT	ak 100 ak 100	2	New Orleans, La. —1:00 pm to mid Rapid City, S. Dak. —Noon—2:00 pm	
WCAT	ak 100 ak 100	D (.25)	Burlington, Vt.	
WCLO	ak 100	(.25)	Janesville, Wis.	
WCPO WDSM	ak 100 z 100	(.25) P	Cincinnati, Ohio —7:00 am—11:30 Superior, Wis.	pm
WEST	ak 100	3 (.25)	Easton, Pa.	
WFAM	ak 100	4	South Bend, Ind.	
WFTC WHBC	ak 100 ak 100	(.25) (.25)	Kinston, N. C. Canton, Ohio	
WHBY	ak 100 ak 100	(.25)	Green Bay, Wis.	
WIBX	ak 100	C (.25) (.25)	Green Bay, Wis. Utica, N. Y5:30 am-1:00 a	m
WIL WJBC	ak 100 ak 100	(.25) 5 (.25)	St. Louis, Mo. Bloomington, 111. — 4:00 pm—8:30 p	
WJBL	ak 100	5 (.25)	Decatur, Ill.	
WJBW	ak 10 6	2	New Orleans, La. —All night statio	
WJNO WJRD	ak 100 ak 250	C (.25) D	W. Palm Beach, Fla. —7:00 am—11:00 Tuscaloosa, Ala.	pm
WKBO	ak 100	3 (.25)	Harrisburg, Pa8:00 am-11:00	pm
WLVA	ak 100	(.25) D	Lynchburg, Va7:00 am-11:00	pm
WMFR WMPC	ak 100 ak 100	D (.25)	High Point, N. C. Lapeer, Mich.	
		(

WOLS WRBL	z ak	100 100	D (25)	Florence, S. C.	8.00 10.20
WSAL	z	250	(.25) D	Columbus, Ga. Salisbury, Md. Hartford, Conn.	
WTHT WTOL	ak z	100 100	M DP	Hartford, Conn. Toledo, Ohio	—7:00 am—4:15 pm
WWAE	āk	100	8	Hammond, Ind.	
XEBU	Z	50		Chihuahua, Chih.	
1210	kc	vs.	(247	.8)	
	•	,	、		
CHLT	z.	100		Sherbrooke, P. Q.	
CJCS CJCU	ak z	50 50	F	Stratford, Ont. Aklavik, N.W.T. Prince Albert, Sask.	—8:00 am—9:00 pm
CKBI CKCH	ak	100	F F	Prince Albert, Sask.	-9:45 am-1:00 am
CKMC	ak ak	100 50	г 	Hull, P. Q. Cobalt, Ont,	
CMHI Kalb	ak ak	150 100	(.25)	Santa Clara, Cuba Alexandria, La.	—7:00 am—
KANS	ak	100	N	Wichita, Kans.	—7:30 am—midnight
KASA	C.	100		Elk City, Okla.	-7:00 am-8:00 pm
KDLR KDON	ak z	100 100	M	Devils Lake, N. D. Monterey, Calif.	—7:30 am—9:30 pm
KFJI	ak	100	1.1.1	Klamath Falls, Ore.	B 40 14 45
KFOR KFPW	ak ak	100 100	CM(.2	5) Lincoln, Nebr. Fort Smith, Ark.	-8:00 am-11:15 pm
KFVS	ak	100	5 (.25)	Cape Girardeau, Mo.	
KFXM KGLO	ak z	100 100	M^2 C (25)	San Bernardino, Cal. Mason City Jowa	—9:00 am—3:00 am
KGY KHBG	ak	100	M (Mason City, Iowa Olympia, Wash.	
KHBG KIUL	z ak	100 100	D	Okmulgee, Okla. Cardon City, Kans	
KLAH	ak	100		Garden City, Kans. Carlsbad, N. Mex. Kilgore, Texas Helena, Mont.	0.00 am 10.00 pm
KOCA KPFA	ak z	100 100	(.25) (.25)	Kilgore, Texas Helena Mont	
KPPC	âk	100	2	Pasadena, Cant.	-10:00 am-12:30 am
KROY KVSO	ak ak	100 100	CD M (25)	Sacramento, Calif, Ardmore, Okla.	
KWTN	ak	100	WI (120)	Watertown, S. Dak.	
WALR WBAX	ak ak	100 - 100 -	M	Zanesville, Ohio Wilkes-Barre, Pa.	
WBBL	ak	100	S	Richmond, Va.	-Sun, 11:00 am-9:15 pm
WBLY WBRB	ak ak	100 100	D 3	Lima, Ohio Red Bank, N. J.	
WCOL	ak	100	N	Columbus, Ohio	-7:00 am-11:00 pm
WCRW WEBQ	ak ak	100 100	4 5 (.25)	Chicago, Ill. Harrisburg, Ill.	-11:00 am-7:00 pm
WEDC	ak	100	4	Chicago, Ill.	
WFAS WFOY	ak ak	100 100	3 (.25)	White Plains, N. Y. St. Augustine, Fla.	
WGBB	ak	100	3	Freeport, N. Y.	
WGCM WGNY	ak ak	100 100	(.25) 3	Gulfport, Miss. Newburgh, N. Y.	-7:30 am-midnight
WGRM	ak	100		Grenada, Miss.	, ioo and incompare
WHAI WHBF	z ak	250 100	DP (.25)	Greenfield, Mass. Rock Island, 111.	
WHBU	ak	100		Anderson, Ind.	
WIBU WJB Y	ak ak	100 100	(.25) (.25)	Poynette, Wis. Gadsden, Ala.	
WJEJ	ak	50	$\hat{D}n(.1)$	Hagerstown, Md.	-
WJIM WJTN	z ak	100 100	(.25) B (.25)	Lansing, Mich. Jamestown, N. Y.	7:15 am12:30 am
WJW	ak	100	(.25)	Akron. Ohio	-8:00 am-10:30 pm
WKOK WLMU	ak z	100 100	P (.25)	Sunbury, Pa. Middlesboro, Ky.	-6:00 am-midnight
WMFG	ak	100	(.25)	Hibbing, Minn.	7:30 am10:00 pm
WOMT WPAX	ak ak	100 100	D	Manitowoc, Wis. Thomasville, Ga.	
WSAY	z	100	D	Rochester, N. Y.	
WSBC WSIX	ak ak	100 100	4 (.25) (.25)	Chicago, Ill. Nashville, Tenn.	6:00 ammidnight 7:00 am1:00 am
WSNJ	z	100	Ď	Bridgeton, N. J.	
WSOC WTAX	ak ak	100 100	N (.25)	Bridgeton, N. J. Charlotte, N. C. Springfield, Ill.	7:00 ammidnight
WTAX XEAT	ak	230		rarrai, Gnin.	—11:00 am—9:00 pm
XEE XEFV	ak ak	50 100		Durango, Dgo. Juarez, Chih.	
XETH	ak	100	1.1.1	Puebla, Pue.	

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1220	1	(215	8)	
1220		(245	.0)	
CMJE	z 50	112.4	Camaguey, Cuba Lawrence, Kans.	7 30
KFKU KTMS	ak 1000	a (5)	Lawrence, Kans.	—3:30 pm—7:30 pm
KTMS	z 500	B	Santa Barbara, Cal.	
KTW	ak 1000	S2	Seattle, Wash.	-9:45 am-12:30 am
KWSC	ak 1000	2 (5) D	Pullman, Wash. Canton, N. Y. Pittsburgh, Pa. Tampa, Fla. Lawrence, Kans.	
WCAD WCAE	ak 500 ak 1000	MR (5)	Pittsburgh, Pa	-7:00 am-2:30 am
WDAE	ak 1000	$\mathbf{C}(5)$	Tampa, Fla.	—7:30 am—midn't.
WREN	ak 1000	Ba(5)	Lawrence, Kans.	8:00 am7:00 pm
XEBL	z 50		Mazatlan, Sin,	
XEDA XETF	z 200		Gral. Anaya, D. F. Veracruz, Ver.	
XETF	ak 12		Veracruz, Ver.	
1230	kcys.	(243	.8)	
		(210		0.00. 11.00
CMCB	z 150		Havana, Cuba	8:00 am11:00 pm
KGBX	ak 500	N	Springfield, Mo.	9:30 am
KGGM	ak 1000	155	Albuquerque, N. M. San Francisco, Cal.	-9.30 am-11.30 pm
K YA WFBM	ak 1000 ak 1000	(5)	Indianapolis, Ind.	-7:30 am-1:00 am
WNAC	ak 1000	C (5) R (5)	Boston, Mass.	6:00 am-1:00 am
XEAZ	z 200		Zacatecas, Zac.	
XEG	z 250		Monterrey, N. L.	
1120				
1240	love	(241	8)	
1240	kcys.	(211		
CJCB	ak 1000	F	Syndey, N. S. Sancti Spiritus, Cub	—7:00 am—11:00 pm
СМНВ	z 50		Sancti Spiritus, Cub	a
KGCU	ak 250	1	Mandan, N. Dak.	
KLPM	ak 250	1XZ	Minot, N. Dak.	
KTAT	ak 1000	M	Fort worth, lexas	
KTFI	ak 1000 ak 1000		Mandan, N. Dak. Minot, N. Dak. Fort Worth, Texas Twin Falls, Idaho San Juan, P. R.	-6:00 am-9:30 pm
WKAO WX YZ	ak 1000 ak 1000	B	Detroit Mich	
XEKL	z 500		Detroit, Mich. Leon, Guan.	
XELA	z 50		Saltillo, Coah. Merida, Yuc.	
XEME	z 50		Merida Yuc.	
			MICINGIN, PROV	
		(239		
1250	kcys.	(239	.9)	
1250 смск	kcys. ak 150	(239	.9)	
1250 CMCK HRN	kcys.	•	.9) Santiago. Cuba Tegucigalpa, Hond.	
1250 CMCK HRN KFOX	kcys. ak 150 c 50 ak 1000		.9) Santiago, Cuba Tegucigalpa, Hond. Long Beach, Calif.	
1250 CMCK HRN KFOX KIT	kcys. ak 150 c 50 ak 1000 ak 250	M (.5)	.9) Santiago, Cuba Tegucigalpa, Hond. Long Beach, Calif. Yakima, Wash.	
1250 CMCK HRN KFOX KIT KXOK	kcys. ak 150 c 50 ak 1000 ak 250 z 1000	M (.5) P	.9) Santiago, Cuba Tegucigalpa, Hond. Long Beach, Calif. Yakima, Wash.	6:00 ames
1250 CMCK HRN KFOX KIT KXOK	kcys. ak 150 c 50 ak 1000 ak 250 z 1000 ak 250	M (.5) P D	.9)	
1250 CMCK HRN KFOX KIT	kcys. ak 150 c 50 ak 1000 ak 250 z 1000 ak 250 ah 1000	M (.5) P D 2 XZ B	.9) Santiago, Cuba Tegucigalpa, Hond. Long Beach, Calif. Yakima, Wash. St. Louis, Mo. WinstSalem, N. C. Northfield, Minn. New Orleans, La.	
1250 CMCK HRN KFOX KIT KXOK WAIR WCAL WDSU WHBI	kcys. ak 150 c 50 ak 1000 ak 250 z 1000 ak 250 ah 1000 ak 1000	M (.5) P D 2 XZ B	.9)	
1250 CMCK HRN KFOX KIT KXOK WAIR WCAL WDSU WHBI WLB	kcys. ak 150 c 50 ak 1000 ak 250 ah 1000 ak 1000 ak 1000 ak 1000	M (.5) P D 2 XZ B a (2.5) 2 XZ	.9) Santiago, Cuba Tegucigalpa, Hond. Long Beach, Calif. Yakima, Wash. St. Louis, Mo. WinstSalem, N. C. Northfield, Minn. New Orleans, La. Newark, N. J. Minneapolis, Minn.	—7:00 am—midnight
1250 CMCK HRN KFOX KIT KXOK WAIR WCAL WDSU WHBI WLB	kcys. ak 150 c 50 ak 1000 ak 250 z 1000 ak 250 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000	M (.5) P D 2 XZ B a (2.5) 2 XZ a (2.5)	.9) Santiago, Cuba Tegucigalpa, Hond. Long Beach, Calif. Yakima, Wash. St. Louis, Mo. WinstSalem, N. C. Northfield, Minn. New Orleans, La. Newark, N. J. Minneapolis, Minn.	—7:00 am—midnight —All night station
1250 CMCK HRN KFOX KI KXOK WAIR WCAL WDSU WHBI WLB WNEW WTCN	kcys. ak 150 c 50 ak 1000 ak 250 z 1000 ak 250 ah 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000	M (.5) P D 2 XZ B a (2.5) 2 XZ	.9)	—7:00 am—midnight —All night station —7:00 am—midnight
1250 CMCK HRN KFOX KIT KXOK WAIR WDSU WHBI WLB WNEW WNEW WTCN XEAI	kcys. ak 150 c 50 ak 1000 ak 250 z 1000 ak 250 ah 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000	M (.5) P D 2 XZ B a (2.5) 2 XZ a (2.5)	.9)	—7:00 am—midnight —All night station —7:00 am—midnight
1250 CMCK HRN KFOX KI KXOK WAIR WCAL WDSU WHBI WLB WNEW WTCN	kcys. ak 150 c 50 ak 1000 ak 250 z 1000 ak 250 ah 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000	M (.5) P D 2 XZ B a (2.5) 2 XZ a (2.5)	.9) Santiago, Cuba Tegucigalpa, Hond. Long Beach, Calif. Yakima, Wash. St. Louis, Mo. WinstSalem, N. C. Northfield, Minn. New Orleans, La. Newark, N. J. Minneapolis, Minn.	—7:00 am—midnight —All night station —7:00 am—midnight
1250 CMCK HRN KFOX KIT KXOK WCAL WDSU WHBI WLB WLB WLB WNEW WTCN XEAI XEXH	kcys. ak 150 c 50 ak 1000 ak 2500 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 z 500 z 250	M (.5) P D 2 XZ B a (2.5) 2 XZ a (2.5) B (5)	.9)	—7:00 am—midnight —All night station —7:00 am—midnight
1250 CMCK HRN KFOX KIT KXOK WAIR WDSU WHBI WLB WNEW WNEW WTCN XEAI	kcys. ak 150 c 50 ak 1000 ak 2500 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 z 500 z 250	M (.5) P D 2 XZ B a (2.5) 2 XZ a (2.5)	.9)	—7:00 am—midnight —All night station —7:00 am—midnight —
1250 CMCK HRN KFOX KIT KXOK WAIR WCAL WDSU WHBI WLB WNEW WTCN XEAI XEXH 1260	kcys. ak 150 c 50 ak 1000 ak 250 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 2500 z 500 z 250 kcys.	M (.5) P D 2 XZ B a (2.5) 2 XZ b (2.5) B (5) (238 2 X	.9)	-7:00 am-midnight -All night station -7:00 am-midnight - 7:00 am-midnight
1250 CMCK HRN KFOX KIT KXOK WAIR WCAL WHBI WLB WNEW WLB WNEW WLEAI XEXH 1260 CMBD	kcys. ak 150 ak 250 ak 1000 ak 250 ak 250 ah 1000 ak 1000 a 2500 a 250 a 250 a 2500 a 2	M (.5) P D 2 XZ B a (2.5) 2XZ a (2.5) B (5) (238 2X 2X 2X	.9)	-7:00 am-midnight -All night station -7:00 am-midnight - 7:00 am-midnight - 8:00 am-midnight
1250 CMCK HRN KTOX KIT KXOK WOAL WDSU WCAU WDSU WHBI WLB WNEW WTCN XEAI XEXH 1260 CMBD CMC	kcys. ak 150 c 50 ak 1000 ak 2500 ak 2500 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 z 2500 z 250 kcys. ak 500 z 1500 ak 1000	M (.5) P D 2 XZ a (2.5) 2 KZ a (2.5) B (5) (238	.9)	-7:00 am-midnight -All night station -7:00 am-midnight - 7:00 am-midnight
1250 CMCK HRN KFOX KIT KXOK WAIR WCAL WHDI WHDI WHDI WHDI WHDI WHDI WHDI WHDI	kcys. ak 150 c 50 ak 1000 ak 250 ak 250 ak 200 ak 250 ak 1000 ak 250 ak	M (.5) P D 2 XZ B a (2.5) 2 XZ a (2.5) B (5) (238 2 X 2 C 	.9)	-7:00 am-midnight -All night station -7:00 am-midnight - 7:00 am-midnight -8:00 am-midnight -9:00 am-1:00 am
1250 CMCK HRN KFOX KIX KXOK WOSU WCAN WOSU WHEI WNEW WHEI XEXH 1260 CMBD CMC KGVO KHSL KOIL	kcys. ak 150 c 50 ak 1000 ak 250 z 1000 ak 1000 ak 1000 ak 1000 ak 1000 z 500 z 2500 kcys. ak 500 ak 1000 ak 1000	M (.5) P D 2 XZ B a (2.5) 2 XZ a (2.5) 2 XZ a (2.5) C C BM(5)	.9)	
1250 CMCK HRN KFOX KIT KXOK WAIR WOSU WHEI WNEW WNEW WTCN XEAI XEXH 1260 CMC KGVO KHSL KOAL	kcys. ak 150 c 50 ak 1000 ak 250 z 1000 ak 250 ah 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 z 250 z 250 kcys. ak 500 z 150 ak 1000 ak 500 z 500	M (.5) P D XZ B a (2.5) 2XZ a (2.5) B (5) C C C BM((5) D	.9)	
1250 CMCK HRN KFOX KTOX KFOX WOAL WDSU WCA WCA WCA WCA WCA WCA WCA WCA WCA WCA	kcys. ak 150 ak 250 ak 200 ak 200 ak 200 ak 1000 ak	M (.5) P D 2 XZ B a (2.5) 2 XZ a (2.5) B (5) C BM(5) D N	.9)	
1250 CMCK HRN KFOX KIT KXOK WAIR WOSU WHEI WNEW WEW WACAL WOSU WHEI WALE WALE WALE WALE KOSU CMC KGVO KHSL KOAC KROV	kcys. ak 150 ck 150 ck 1000 ak 2500 ak 2000 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 zk 1000 z 2500 z 2500 z 1500 ak 2500 z 1500 ak 1000 ak 5000 z 500 z 500	M (.5) P D XZ B a (2.5) 2XZ a (2.5) B (5) C C C BM((5) D	.9)	7:00 ammidnight All night station 7:00 ammidnight 7:00 ammidnight
1250 CMCK HRN KTK KXOK WOAL WDSU WCA WOSU WCA WCA WCA WCA KTCN XEXH 1260 CMBD CMC CMC KGVO KIL KOIL KOIL KOA KVOA	kcys. ak 150 ak 250 ak 200 ak 200 ak 250 ak 1000 ak 5000 ak 250 ak 250 ak 250 ak 250 ak 1000 ak 10	M (.5) P D 2 XZ B a (2.5) 2 XZ a (2.5) B (5) C BM(5) D N D D	.9)	
1250 CMCKK HRN KFOX KIT KXOK WAIR WOSU WUB WNEW WIEW WIEW WIEW WIEW KOL KGVO KGVO KGVO KISL KOA KOA KVOA	kcys. ak 150 ak 1000 ak 250 ak 200 ak 200 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 z 500 z 250 kcys. ak 500 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 5000 ak 1000 ak 1000	M (.5) P 2 XZ B a (2.5) 2 XZ a (2.5) B (5) C 238 2X 2 C B M(5) D D C (5)	.9)	
1250 CMCK HRN KTK KXOK WOAL WDSU WCA WOSU WCA WCA WCA WCA KTCN XEXH 1260 CMBD CMC CMC KGVO KIL KOIL KOIL KOA KVOA	kcys. ak 150 ak 1000 ak 250 ak 1000 ak 2500 ah 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 z 500 z 250 kcys. ak 500 ak 1000 ak 10	M (.5) P D 2 XZ B a (2.5) 2 XZ a (2.5) B (5) C BM(5) D N D D	.9)	7:00 ammidnight All night station 7:00 ammidnight 7:00 ammidnight
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1250 CMCKK HRN KFOX KTOX WLB WNEW WLB WNEW WHB WNEW WHEW WTCN XEAI XEXH 1260 CMBD CMC KGVO KHSL KOIL KPAC KGVO KHSL KOIL KOIL KOIL KOIL KOI CMBD CMC KGVO KHSL KOI KOI KOI KOI KOI KOI KOI KOI KOI KOI	kcys. ak 150 ak 250 ak 2000 ak 2000 ak 2000 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 1000 ak 5000 ak 5000 ak 1000 ak 5000 ak 1000 ak 100	M (5) P D 2 XZ B a (2.5) 2 XZ B B (5) C C C M (238 2 X 2 C C C C M (1) C C M (5) C M (5) C C M (5) C C M (5) C C C C C C C C C C C C C C C C C C C	.9)	7:00 ammidnight All night station 7:00 ammidnight 7:00 ammidnight 8:00 am1:00 am 6:00 am1:00 am 6:00 am1:00 pm 6:00 am1:00 am 7:00 ammidnight 8:45 am3:30 pm 9:00 am1:00 am

WASH					
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	ak	500	DaN	Grd. Rpds., Mich. Baltimore, Md. Jackson, Miss. Gd. Rapids, Mich.	-6:30 am-midnight
WFBR	ak	500	R (1)	Baltimore, Md.	7:00 ammidnight
WJDX	ak	1000	R (1) R (5)	Jackson, Miss.	
WOOD	ak	500	Na	Gd Ranids Mich	7:00 ammidnight
XEXB	ak	250		Jalana Var	7.00 am monght
				Jalapa, Ver.	
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смко	z			Holguin, Cuba	
VEDD	āk	1000	C (5)	Great Falls, Mont.	
KFBB			U (5)		
KLS	ak	250	1.1.1.1	Oakland, Calif.	
WCAM	ak	500	1	Camden, N. J.	
WCAP	ak	500	1	Camden, N. J. Asbury Park, N. J. Chattanooga, Tenn.	
WDOD	ak	1000	C (5) N (5)	Chattanooga Tenn.	
WIBA	ak	1000	NI (E)	Chattanooga, Tenn. Madison, Wis.	
WIDA		1000	I (5)	Wadison, Wis.	
WORC	ak	500	C	Worcester, Mass.	-8:00 am-midnight
WRR	ak	500	М	Dallas, Texas	
WTNJ	ak	500	1	Trenton, N. J.	
XEMX	z	100		Mexico City, D. F.	
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CMCU	ak	50 0		Havana, Cuba	6:55 am1:00 am
KDYL	ak	1000	RX	Havana, Cuba Salt Lake City, Ut.	-8:00 am-3:00 am
KLCN				Bluth anillo Ash	0.00 am 0.00 am
	ak	100	D	Blytheville, Ark.	
KTRH	ak	1000	Č (5) N (5)	Houston, Texas Duluth, Minn.	
WEBC	ak	1000	N (5)	Duluth, Minn.	<u>—8:00 am—1:00 am</u>
WJAS	ak	1000	C (5)	Pittsburgh, Pa.	7:30 am12:30 am
WNBZ	ak	100	Ď	Pittsburgh, Pa. Saranac Lake, N. Y.	-9:30 am-ss
				San Juan, P. R.	-5:45 am-11:30 pm
WNEL	ak	1000	(2,5)	San Juan, I. K.	-5.45 am-11.50 pm
1300	120	110	(230	6)	
1000	nu	eys.	(200	.0/	
IIIan		25		Taught D. P.	
HI7P	ak		2211	Trujillo, D. R.	
KALE	ak	1000	M	Portland, Ore.	
KFAC	ak	1000		Los Angeles, Calif.	—All night station
KFH	ak	10:00	C (5)	Wichita, Kans.	
TGI	ak		1305	Customala City Gu	at
WDDD		1000	1	Brooklyn, N. Y. New York, N. Y.	
WBBR	ak		-	brooklyn, N. I.	
WEVD	ak	1000	1	New YORK, N. Y.	
WFAB	ak	1000	s 1	New York, N. Y.	
WFBC	ak	1000	N (5)	Greenville, S. C.	
				T1 NT N7	(00
				TTOV N. Y	-6:00 pm-manignt
WHAZ	ak	10 00	1	New York, N. Y. Greenville, S. C. Troy, N. Y. Sheboygan Wis	—6:00 pm—midnight
WHAZ	ak ak			Troy, N. Y. Sheboygan, Wis,	-6:00 pm-manight
WHBL	ak	10 00 250		Sheboygan, Wis,	—6:00 pm—mianight
WHBL	ak	10 00 250		Sheboygan, Wis,	—6:00 pm—mianight
	ak	10 00	(228	Sheboygan, Wis,	—6:00 pm—mianigat
wнвl 1310	^{ak}	^{10 00} 250 250		.9)	
wнвl 1310 снск	ak ko ak	^{10 00} 250 250 250 250	(228	Sheboygan, Wis. .9) Charlottetown, P.E.	
WHBL 1310 CHCK CJKL	ak kc ak ak	^{10 00} 250 250 250 50 100		Sheboygan, Wis. .9) Charlottetown, P.E. North Bay, Ont	
WHBL 1310 CHCK CJKL CJLS	ak kc ak ak ak	10 00 250 CYS. 50 100 100	(228 F	Sheboygan, Wis. .9) Charlottetown, P.E. North Bay, Ont	Ι.
WHBL 1310 CHCK CJKL CJLS CKCV	ak kc ak ak	^{10 00} 250 250 250 50 100	(228	Sheboygan, Wis. .9) Charlottetown, P.E. North Bay, Ont	
WHBL 1310 CHCK CJKL CJLS CKCV	ak kc ak ak ak	10 00 250 250 250 250 250 100 100 100	(228 F F	Sheboygan, Wis. .9) Charlottetown, P.E. North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex.	Ι.
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WHBL 1310 CHCK CJKL CJLS CKCV KAND KARM KCKN	ak ak ak ak ak z ak ak	1000 250 250 250 250 100 100 100 100 100	(228 F F C	Sheboygan, Wis. .9) Charlottetown, P.E. North Bay, Ont. Yarmouth, N. S. Quebec, P. Q. Corsicana, Tex. Fresno, Calif. Kansas City, Kans. Jerome Ariz	Ι.
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WHBL 1310 CHCK CJLS CKCV KAND KARM KCKN KCRJ KFPL	ak ak ak ak ak ak ak ak ak ak ak	1000 250 250 250 250 100 100 100 100 100 100 100	(228 F D C (.25) (.25)	Sheboygan, Wis. .9) Charlottetown, P.E. North Bay, Ont. Yarmouth, N. S. Quebec, P. Q. Corsicana, Tex. Fresno, Calif. Kansas City, Kans. Jerome Ariz	I. —7:55 am—11:30 pm —7:00 am—10:45 pm
WHBL 1310 CHCK CJLS CKCV KAND KARM KCRJ KFPL KFXR	ak ak ak ak ak ak ak ak ak ak ak	1000 250 250 250 250 100 100 100 100 100 100 100	(228 F D C (.25) (.25) (.25)	Sheboygan, Wis. .9) Charlottetown, P.E. North Bay, Ont. Yarmouth, N. S. Quebec, P. Q. Corsicana, Tex. Fresno, Calif. Kansas City, Kans. Jerome Ariz	I. —7:55 am—11:30 pm —7:00 am—10:45 pm —8:00 am—midnight
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WHBL 1310 CHCK CJLS CKCV KARM KCKN KCKN KCKN KCKN KCKN KCKJ KFPL KFYR KGEZ KGFW KHUB	ak ak ak ak ak ak ak ak ak ak	1000 250 250 50 100 100 100 100 100 100 100 100 10	(228 F D C (.25) (.25) (.25) (.25)	Sheboygan, Wis. .9) Charlottetown, P.E. North Bay, Ont. Yarmouth, N. S. Quebec, P. O. Corsicana, Tex. Fresno, Calif. Kansas City, Kans. Jerome, Ariz. Dublin, Texas Okla. City, Okla. Lubbock, Texas Kalispell, Mont. Kearney, Nebr. Warsonville, Calif.	I. 7:55 am11:30 pm 7:00 am10:45 pm 8:00 ammidnight 8:00 am11:00 pm 9:00 am11:00 pm
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WBOW			IN (.25) Terre Haute, Ind.	—7:00 am—midnight	
WBRE	ak	100	N	Wilkes-Barre, Pa.		
WBRK	z.	100	- C (, 25)) Pittsfield, Mass.	—7:00 am—1:00 am	
WCLS	ak	100		Joliet, Ill.	-8:00 am-9:30 pm	
WCMI	ak	100	(.25)	Ashland, Ky. El Paso, Texas Buffalo, N. Y.	6:00 am11:30 pm	
WDAH	ak	100	S (.25)	El Paso, Texas	-11:30 am-10:30 pm	(Sun. only)
WEBR	ak	100	B (.25) Buffalo, N. Y.	—7:00 am—midnight	
WEMP	ak	100	D	Milwaukee Wis	-7:30 am-ss	
WEXL	ak	50		Milwaukee, Wis. Royal Oak, Mich.	-8:00 am-4:00 am	
WFBG	ak	100	3	Alteono Do	-7:00 am-10:30 pm	
WEDE	ak		3	Altoona, Pa.		
WFDF		100	1 30	Flint, Mich.	6:00 am—midnight	
WGAU WGH	z_	100	(.25)	Athens, Ga.	_	
WGH	ak	100	(.25)	Newport News, Va.	—7:00 am—midnight	
WGTM		100	Ď	Wilson, N. C.		
WHAT	ak	100	4	Philadelphia, Pa.		
WJAC	ak	100	3 (.25)	Johnstown, Pa.		
WLAK	z	100		Lokoland Fla		
WLBC	ak	100	(.25)	Muncie, Ind. Laconia, N. H. Auburn, N. Y.	—7:00 am—midnight	
WLNH	ak	100	M	Laconia N H	7.00 am—munight	
WMBO	ak	100	141	Auburn N V		
			(35)	Plattsburg, N. Y.		
WMFF	ak	100	(.25)	Plattsburg, N. I.		
WNBH	ak	100	M (.25) New Bedford, Mass.	7:30 am11:15 pm	
WOL	ak	1000	MZ	Washington, D. C.		
WRAW	ak	100		Reading, Pa. Knoxville, Tenn.	7:00 am11:00 pm	
WROL	ak	100	N(.25)	Knoxville, Tenn.	-	
WSAJ	ak	100		Grove City, Pa.		
WSGN	ak	100	B (.25)	Birmingham, Ala.	-8:00 am-midnight	
WSJS	ak	100	Č`	Winston-Salem N (2.—8:00 am—10:00 pm	
WTAL	ak	100	(.25)	Tallahassee, Fla.	8.00 am midmidht	
WTEL	ak	100	4	Dhiladalahia Da	-8:00 am-midnight	
wrjs		100	(.25)	Philadelphia, Pa.	—8:00 am—midnight	
	ak			Jackson, Tenn.	_ . _	
WTRC	ak	100	(.25)	Elkhart, Ind.	—7:00 am—10:30 pm	
XEAG	z	10	· • • •	Cordoba, Ver.		
XEBO	z	25		Irapuato, Guan. Tampico, Tams.		
XEFW	ak	300		Tampico, Tams.	-11:00 am-10:00 pm	
XETB	ak	125		Torreon, Coah.	· · · · · · · · · · · · · · · · · · ·	
XEX	ak	125		Monterrey, N. L.		
XEX XEXS	z	100		Mexico City, D. F.		
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смох	ak	200		Havana, Cuba		
CMOX KGHF	ak ak	200 500	B	Havana, Cuba Pueblo, Colo.	9:00 am1:00 am	
CMOX KGHF KGMB	ak ak ak	200 500 1000	B C M	Havana, Cuba Pueblo, Colo. Honolulu, Hawaii	—9:00 am—1:00 am —1:30 am—6:00 pm	6
CMOX KGHF KGMB KID	ak ak ak ak	200 500 1000 500	B C M (1)	Havana, Cuba Pueblo, Colo. Honolulu, Hawaii		6
CMOX KGHF KGMB KID KRNT	ak ak ak ak ak	200 500 1000 500 1000	B C M (1) C (5)	Havana, Cuba Pueblo, Colo. Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa	—1:30 am—6:00 pm —6:00 am—1:00 am	8 ⁻
CMOX KGHF KGMB KID KRNT WADC	ak ak ak ak ak ak	200 500 1000 500 1000 1000	B C M (1) C (5) C	Havana, Cuba Pueblo, Colo. Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa Akron, Ohio	-1:30 am-6:00 pm	6
CMOX KGHF KGMB KID KRNT	ak ak ak ak ak	200 500 1000 500 1000	B C M (1) C (5) C N	Havana, Cuba Pueblo, Colo. Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa Akron, Ohio	—1:30 am—6:00 pm —6:00 am—1:00 am —7:00 am—1:00 am	6
CMOX KGHF KGMB KID KRNT WADC	ak ak ak ak ak ak	200 500 1000 500 1000 1000	B C M (1) C (5) C	Havana, Cuba Pueblo, Colo. Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa Akron, Ohio York, Pa.	—1:30 am—6:00 pm —6:00 am—1:00 am	
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CMOX KGHF KGMB KID KRNT WADC WORK WSMB XEAU 1330 CMHK	ak ak ak ak ak ak ak z z z	200 500 1000 500 1000 1000 1000 1000 100	B C M (1) C (5) C N R (225	Havana, Cuba Pueblo, Colo. Honolulu, Hawaii Idaho Falls, Idaho Des Moines, Iowa Akron, Ohio York, Pa. New Orleans, La. Tijuana, B. Cfa. .4) Cruces, Cuba	1:30 am6:00 pm 6:00 am1:00 am 7:00 am1:00 am 8:00 am10:00 pm	·
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KCRC ak 250 M Enid, Okla. $-8:00$ am KGER ak 1000 Long Beach, Calif. $-7:00$ am WCSC ak 500 N(1) Charleston, S. C. $-7:00$ am WFBL ak 1000 C(5) Syracuse, N. Y. $-7:00$ am WGES ak 500 1 (1) Chicago, III. $-8:00$ am WOBC ak 1000 D Vicksburg, Miss. $-8:00$ am WSBT ak 500 1 South Bend, Ind. $-8:00$ am CFAR z 100 Flin Flon, Man. $-8:00$ ar CKCW ak 100 Flin Flon, Man. $-10:00$ ar CMGE ak 150 Cardenas, Cuba $-10:00$ ar KAST ak 100 Astoria, Ore. $-11:00$ ar KEEN ak 100 Seattle, Wash. $-7:00$ am KEEN ak 100 Seattle, Wash. $-3:00$ pm	m—midnight n—1:00 am n—9:00 pm m—8:30 pm n—2:00 am n—2:00 am m—3:00 am
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WOBC ak 1000 D Vicksburg, Miss. 0.00 all WSBT ak 500 I South Bend, Ind. 1370 kcys. (218.8)	m—midnight n—1:00 am n—9:00 pm m—8:30 pm n—2:00 am n—2:00 am m—3:00 am
WOBC ak 1000 D Vicksburg, Miss. 0.00 all WSBT ak 500 I South Bend, Ind. 1370 kcys. (218.8)	m—1:00 am n—9:00 pm m—8:30 pm n—2:00 am n—1:00 am m—3:00 am
WOBC ak 1000 D Vicksburg, Miss. 0.00 all WSBT ak 500 I South Bend, Ind. 1370 kcys. (218.8)	m—1:00 am n—9:00 pm m—8:30 pm n—2:00 am n—1:00 am m—3:00 am
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L IVU EI DUTAGO, ATK.	m3:00 am
	m-3:00 am
KERN ak 100 N Bakersfield, Calif. —11:00 ar	
KFGQ ak 100 D Boone, Iowa -7:00 am	a2:00 pm
KFJZ ak 100 (.25) Fort Worth, Texas -7:30 am	n-midnight
KFRO ak 250 D Longview, Texas -7:00 am	1-88
KGAR ak 100 C (.25) Tucson, Arizona	
ROAR ak 100 C (.25) I deson, Arizona	
KGFL ak 100 4 Roswell, N. Mex.	
VCVI -1 (00 (27) Grant 1 (P)	
KGKL ak 100 (.25) San Angelo, Texas	
KICA ak 100 4 Clovis, N. Mex9:00 am	11.00 pm
Rith a loo f Cloris, It. Mcx. 7.00 all	n—11:00 pm
KIUP ak 100 Durango, Colo,10:00 an	m—11:00 pm
KLUF ak 100 Galveston, Texas -9:00 am	n—midnight
KMAC ak 100 $5(.25)$ San Antonio, Tex3:00 am KOBH ak 100 $(.25)$ Rapid City, S. Dak8:00 am KOKO ak 100 \dots La Junta, Colo8:00 am KONO ak 100 \dots San Antonio, Tex7:00 am KOPC ak 100 $(.25)$ San Antonio, Tex7:00 am	n—9:00 pm
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KOBH ak 100 (.25) Rapid City, S. Dak8:00 am	n—midnight
KOKO ak 100 La Junta, Colo, -8:00 am	
RORO ak 100 La Junta, Colo. —8:00 am	
KONO ak 100 5 San Antonio, Tex7:00 am	n—11:30 pm
KRE ak 100 (.25) Berkeley, Calif24 hour	n—11:30 pm 1—11:00 pm
KRE ak 100 (.25) Berkeley, Calif24 hour	n—11:30 pm n—11:00 pm
KRKO ak 50 3 Everett Wash	n—11:30 pm n—11:00 pm
KDMC 100 (27) You ND	n—11:30 pm n—11:00 pm rs daily
	n—11:30 pm n—11:00 pm
KRMC z 100 (.25) Jamestown, N. D.	n—11:30 pm n—11:00 pm
	n—11:30 pm n—11:00 pm rs daily
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KSEM ak 100 M Salem, Ore, $-10:00$ an KTEM ak 100 M Oklahoma City, Ok. KUJ ak 100 Great Bend, Kans. KVGB z 100 Great Bend, Kans. KVRS z 100 Great Bend, Kans. KVRS z 100 Great Bend, Kans. KWYO ak 100 (.25) Sheridan, Wyo. -9:00 am WAAF ak 100 (.25) Sheridan, Wyo. -7:00 am WAAF ak 100 (.25) Sheridan, Wyo. -7:00 am WATL ak 100 (.25) Atlanta, Ga. -7:00 am WBTM ak 100 (.25) Buffanore, Md. -7:30 am WBTM ak 100 (.25) Buffanore, Md. -7:30 am WDWS ak 100 (.25) Buffanore, Md. -8:00 am WDWS ak 100 C.(.25) Evansville, Ind. -8:00 am WBDK <t< th=""><td>n-11:00 pm rs daily m-1:00 am n-1:00 am n-1:00 am n-1:00 am n-midnight n-38 n-1:00 am n-midnight n-10:00 pm n-11:30 pm n-11:30 pm n-11:30 pm n-11:30 pm n-11:30 pm n-11:30 pm n-11:00 am n-10:15 pm</td></t<>	n-11:00 pm rs daily m-1:00 am n-1:00 am n-1:00 am n-1:00 am n-midnight n-38 n-1:00 am n-midnight n-10:00 pm n-11:30 pm n-11:30 pm n-11:30 pm n-11:30 pm n-11:30 pm n-11:30 pm n-11:00 am n-10:15 pm

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1380	kc	ys.	(217	.3)	
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CMCR	z			Havana, Cuba	-9:00 am-11:00 pm
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WVFW 1410 CKFC CKMO CMCO KFJM KGNC KMED WAAB	kc ak ak ak ak ak ck ak	500 500 500 5000 5000 500 1000 250 500	(212 5 5 (1) (2.5) N N M (1)	Vancouver, B. C. Vancouver, B. C. Havana, Cuba Grand Forks, N. D. Amarilio, Texas Medford, Ore. Boston Mass	24 hours daily 9:00 am12:30 am
WVFW 1410 CKFC CKMO CMCQ KFJM KGNC KMED WAAB WBCM	kc ak ak ak ak ak ck ak ak	500 500 500 5000 5000 500 1000 250 500 500	(212) 5 5 (1) (2.5) N N M (1) (1)	Vancouver, B. C. Vancouver, B. C. Havana, Cuba Grand Forks, N. D. Amarilio, Texas Medford, Ore. Boston Mass	—9:00 am—12:30 am
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wvfw 1410 ckfc ckmcd ckfc ckmo ckgc kgmc kgmc kgmc kggc chln ckgb kabr kabr kabr kabr kabr kkbr kgfz kgfc kgfc kgfc kgb kabr kkbr khl kht kgfc kgfc kgfc kbb kabr kkbr kht kbb kht kgfc kgfc kbb kht kgfc kgfc kbb kht kgfc kbb kht kht kgfc kgfc kbb kbb kht kbb kht kht kht kht kbbb kht kbbb kht kbbb kht kbbb kht kbbb kht kbbb kht kbbb kht kbbb kht kbbbb kht kbbbb kht kbbbbb kht kbbbbb kht kbbbbbbbbbb	K abakakakakaka K zababakaka za zababakaka za	500 500 500 5000 5000 5000 500 5	$\begin{array}{c} (212\\ 5\\ 5\\ (2.5) \\ N\\ M\\ (1)\\ (1)\\ (1)\\ (1)\\ (1)\\ (1)\\ (211\\ (211\\ F\\ (25)\\ DP\\ P\\ (25)\\ DP\\	2.6) Vancouver, B. C. Vancouver, B. C. Havana, Cuba Grand Forks, N. D. Amarillo, Texas Medford, Ore. Boston, Mass. Bay City, Mich. Biuefield, W. Va. Rockford, Ili. Montgomery, Ala. .1) Three Rivers, P. Q. North Bay, Ont. San Antonio, Texas Aberdeen, S. D. Albert Lea, Minn. Portland, Ore. Texarkana, Tex. Denton, Tex. Price. Utah St. Cloud, Minn. St. Cloud, Min	
wvfw 1410 ckfc ckkoc ckkoc kgnc kgnc kgnc kgnc kgnc kgnc kgr kgr kgr kgr kgr kgr kgr kgr kgr kgr	K ahakkakkakaka K zahahaha za zahahakaka zah	500 500 500 5000 5000 5000 5000 500 500	$\begin{array}{c} (212\\ 5\\ 5\\ (2.5) N\\ N\\ (1)\\ (1)\\ (1)\\ (1)\\ (2.5) N\\ (1)\\ (2)\\ (25)\\ XZ\\ D\\ P\\ (.25)\\ XZ\\ D\\ P\\ (.25) N\\ 1\\ (.25) N\\ P\\ (.25) N\\ P\\ 0\\ (.25) N\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	2.6) Vancouver, B. C. Vancouver, B. C. Havana, Cuba Grand Forks, N. D. Amarillo, Texas Medford, Ore. Boston, Mass. Bay City, Mich. Biuefield, W. Va. Rockford, Ili. Montgomery, Ala. .1) Three Rivers, P. Q. North Bay, Ont. San Antonio, Texas Aberdeen, S. D. Albert Lea, Minn. Portland, Ore. Texarkana, Tex. Denton, Tex. Price. Utah St. Cloud, Minn. St. Cloud, Min	-9:00 am-12:30 am -5:00 am -7:30 ammidnight -7:30 ammidnight -7:30 am11:30 pm -7:00 am12:15 am -7:30 am -2:00 pm 8:00 pm -9:30 am -9:30 am -9:30 am -9:30 pm -9:30 pm -9
wvfw 1410 ckfc ckkoc ckkoc ckgo kkgnc kkgnc kkgnc kkgc kkgc kkgc kkgc k	K abakakkakaka K zababaha za zababaka zababa	500 500 500 5000 5000 5000 5000 500 100 1	$\begin{array}{c} (212\\ 5\\ 5\\ (2.5) N\\ N\\ (1)\\ (1)\\ (1)\\ (1)\\ (2.5) N\\ (1)\\ (2)\\ (25)\\ XZ\\ D\\ P\\ (.25)\\ XZ\\ D\\ P\\ (.25) N\\ 1\\ (.25) N\\ P\\ (.25) N\\ P\\ 0\\ (.25) N\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	2.6) Vancouver, B. C. Vancouver, B. C. Havana, Cuba Grand Forks, N. D. Amarillo, Texas Medford, Ore. Boston, Mass, Bay City, Mich. Biuefield, W. Va. Rockford, Ill. Montgomery, Ala. .1) Three Rivers, P. Q. North Bay, Ont. San Antonio, Texas Aberdeen, S. D. Albert Lea, Minn. Portland, Ore. Texarkana, Tex. Denton, Tex. Price. Utah St. Cloud, Minn. Fond du Lac, Wis. A Shawnee, Okla. San Francisco, Cal. Alamosa, Colo. La Grande, Ore. Palestine, Texas Eugene, Ore. Abilene Texas	
WVFW 1410 CKFC CKMOO CMCOO KFJM KGMCD WAAB WBCM WHIS WROK WHIS WROK WHIS WROK WHIS WROK WHIS CHLN CKGBB KABC KABC KABC KABC KABC KABC KABC KA	K ahakkakkakaka K zabahahazak zabahahaka zabaha	500 500 500 5000 5000 5000 500 500 500	$\begin{array}{c} (212\\ 5\\ 5\\ (2.5) N\\ N\\ (1)\\ (1)\\ (1)\\ (1)\\ (2)\\ (2)\\ (2)\\ (2)\\ (2)\\ (2)\\ (2)\\ (2$	2.6) Vancouver, B. C. Vancouver, B. C. Havana, Cuba Grand Forks, N. D. Amarillo, Texas Medford, Ore. Boston, Mass, Bay City, Mich. Biuefield, W. Va. Rockford, Ill. Montgomery, Ala. .1) Three Rivers, P. Q. North Bay, Ont. San Antonio, Texas Aberdeen, S. D. Albert Lea, Minn. Portland, Ore. Texarkana, Tex. Denton, Tex. Price. Utah St. Cloud, Minn. Fond du Lac, Wis. A Shawnee, Okla. San Francisco, Cal. Alamosa, Colo. La Grande, Ore. Palestine, Texas Eugene, Ore. Abilene Texas	-9:00 am-12:30 am -5:00 am -7:30 ammidnight -7:30 ammidnight -7:30 am11:30 pm -7:00 am12:15 am -7:30 am -2:00 pm 8:00 pm -9:30 am -9:30 am -9:30 am -9:30 pm -9:30 pm -9
wvfw 1410 ckfc ckkoc ckkoc ckgo kkgnc kkgnc kkgnc kkgc kkgc kkgc kkgc k	K abakakkakaka K zababaha za zababaka zababa	500 500 500 5000 5000 5000 5000 500 100 1	$\begin{array}{c} (212\\ 5\\ 5\\ (2.5) N\\ N\\ (1)\\ (1)\\ (1)\\ (1)\\ (2)\\ (25)\\ XZ\\ D\\ 4\\ (.25)\\ XZ\\ DP\\ P\\ (.25) N\\ (.25) N\\ 1\\ (.25) F\\ P\\ D\\ M\\ (.25) F\\ P\\ D\end{array}$	2.6) Vancouver, B. C. Vancouver, B. C. Havana, Cuba Grand Forks, N. D. Amarillo, Texas Medford, Ore. Boston, Mass. Bay City, Mich. Biuefield, W. Va. Rockford, Ili. Montgomery, Ala. .1) Three Rivers, P. Q. North Bay, Ont. San Antonio, Texas Aberdeen, S. D. Albert Lea, Minn. Portland, Ore. Texarkana, Tex. Denton, Tex. Price. Utah St. Cloud, Minn. St. Cloud, Min	-9:00 am-12:30 am -5:00 am -7:30 ammidnight -7:30 ammidnight -7:30 am11:30 pm -7:00 am12:15 am -7:30 am -2:00 pm 8:00 pm -9:30 am -9:30 am -9:30 am -9:30 pm -9:30 pm -9

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KUMA	a1;	100		Vumo Aria	
KUMA	ak			Yuma, Ariz.	
KWBG	ak	100	2	Hutchnison, Kans.	
KXL	ak	100	4 (.25)	Portland, Ore.	—All night station
WACO	ak	100	C	Waco, Texas	1.2
WAGM	ak	100		Presque Isle, Me.	
			(35)	Chatter iste, Me.	7.00 am 7.00 pm
WAPO	ak	100	(.25)	Chattanooga, Tenn.	-7:00 am-7:00 pm
WAZL	ak	100	2	Hazleton, Pa.	—9:00 am—10:00 pm
WCBS	ak	100	(.25)	Springfield, Ill.	—9:00 am—10:00 pm —8:00 am—11:00 pm
WCHV	ak	100	3 (.25)	Charlottesville, Va.	-7:00 am-midnight
				Dealer Merry N.C.	7,00 and midnight
WEED	ak	100	3 (.25)	Rocky Mount, N. C.	
WELL	ak	100	1.1.1.1	Battle Creek, Mich.	—7:30 am—midnight
WGPC	ak	100		Albany, Ga. Cicero, Ill.	
WHFC	ak	100	(.25)	Cicoro III	—7;00 am—1;00 am
WHFG			(.23)	Cicero, In.	-7;00 am-1;00 am
WILM	aj	100	2	Wilmington, Del.	
WJMS	ak	100		Wilmington, Del. Ironwood, Mich.	
WLAP	ak	100	(.25)	Lexington, Ky.	
			25) B	Erie, Pa.	
WLEU	ak	100	1.25) 1		7 0 0
WMAS	ak	100	C (.25)	Springfield, Mass.	—7:00 am —midnight
WMBC	ak	100	(.25)	Detroit, Mich. Joplin, Mo.	—7:30 am —midnight
WMBH	ak	100	(.25)	Joplin, Mo	
WMBS	ak	250	D.	Uniontown, Pa.	6:00 am6:00 pm
					-0.00 am -0.00 pm
WMFJ	ak	100		Daytona Bch., Fla.	
WMSD	ak	100		Sheffield, Ala. Watertown, N. Y. Paducah, Ky.	
WNN Y	2	100	(.25) P (.25)	Watertown, N. Y.	
WPAD	ak	100	25	Paducah Ky	—7:00 am—midnight
WDAD			(.2.3)	Dealershand W.V	7.00 and minungine
WPAR	ak	100	C	Parkersburg, W. V.	
WPRP	z	100	(.25)	Ponce, Puerto Rico	
	z	100		Kenora, Ont.	
	-				
1/20	1		1200	7)	
1430	ĸ	eys.	(209	•/)	
			`		
CMJP	ak	75		Moron, Cuba	
KECA	ak	1000	(5) B	Los Angeles, Cal.	—10:00 am—3:00 am
KGNF	ak	1000	D D	Los Angeles, Cal. North Platte, Neb. 5) Des Moines, Iowa	
KSO	ak	500	BM(2)	Des Moines Iona	<i>i</i>
WDNO			C (1)V	Culumbus Obts	-6:30 am
WBNS	ak	500	U (I)A	Columbus, Onio	
WHEC	ak	500	<u>u</u> (1)	Kochester, N. Y.	-7:00 am-midnight
WHP	ak	500	C (1)	5) Des Moines, Iowa Columbus, Ohio Rochester, N. Y. Harrisburg, Pa. Memphis, Tenn.	—6:30 am—mldnight
WMPS	ak	500	(1) B	Memphis, Tenn.	
WOKO	ak	500	Č (1)	Memphis, Tenn. Albany, N. Y.	
			0(1)		0.00 um 1100 um
	-				0.00 um 1100 um
1440	-		(208		
1440	ka	eys.		.2)	
1440 смоа	ko z	cys. 150		.2)	
1440	ka	eys.	(208	.2) Havana, Cuba Casper, Wyo,	
1440 CMOA KDFN	kc z ak	2ys. 150 500	(208	.2) Havana, Cuba Casper, Wyo,	
1440 CMOA KDFN KELA	kc z ak ak	2YS. 150 500 500	(208 м	.2) Havana, Cuba Casper, Wyo,	
1440 CMOA KDFN KELA KXYZ	kc z ak ak	2YS. 150 500 500 1000	(208 ^M B	.2) Havana, Cuba Casper, Wyo. Centralia, Wash. Houston, Texas	-24 hours daily
1440 CMOA KDFN KELA KX YZ WBIG	kc z ak ak ak ak	2YS. 150 500 1000 1000	(208 M B C	.2) Havana, Cuba Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C.	—24 hours daily —6:30 am—11:30 pm
1440 CMOA KDFN KELA KXYZ WBIG WCBA	z ak ak ak ak ak	2YS. 150 500 1000 1000 500	(208 M B C a	.2) Havana, Cuba Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa.	24 hours daily 6:30 am11:30 pm 6:30 am11:30 pm
1440 CMOA KDFN KELA KX YZ WBIG WCBA WMBD	kc z ak ak	2YS. 150 500 1000 1000	(208 M B C a	.2) Havana, Cuba Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa.	—24 hours daily —6:30 am—11:30 pm
1440 CMOA KDFN KELA KX YZ WBIG WCBA WMBD	kc z ak ak ak ak aj ak	2YS. 150 500 1000 1000 500 1000	(208 M B C a C(5)	.2) Havana, Cuba Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, III.	24 hours daily 6:30 am11:30 pm 6:30 am11:30 pm 7:00 ammidnight
1440 CMOA KDFN KELA KX YZ WBIG WCBA WMBD WSAN	kc z ak ak ak aj ak	CYS. 150 500 1000 1000 500 1000 500	(208 M B C a	.2)	24 hours daily 6:30 am11:30 pm 6:30 am11:30 pm
1440 CMOA KDFN KELA KX YZ WBIG WCBA WMBD	kc z ak ak ak ak aj ak	2YS. 150 500 1000 1000 500 1000	(208 M B C a C(5)	.2) Havana, Cuba Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, III.	24 hours daily 6:30 am11:30 pm 6:30 am11:30 pm 7:00 ammidnight
1440 CMOA KDFN KELA KXYZ WBIG WCBA WMBD WSAN XEFI	z z ak ak ak ak ak ak	2YS. 150 500 1000 1000 1000 500 250	(208 M B C a C(5) Na	.2)	24 hours daily 6:30 am11:30 pm 6:30 am11:30 pm 7:00 ammidnight
1440 CMOA KDFN KELA KX YZ WBIG WCBA WMBD WSAN	z z ak ak ak ak ak ak	2YS. 150 500 1000 1000 1000 500 250	(208 M B C a C(5) Na	.2)	24 hours daily 6:30 am11:30 pm 6:30 am11:30 pm 7:00 ammidnight
1440 CMOA KDFN KELA KXYZ WBIG WCBA WMBD WSAN XEFI 1450	kc ^z ^{ak} ^{ak} ^{ak} ^{ak} ^{ak}	Cys. 150 500 1000 1000 500 1000 500 250 Cys.	(208 M B C a C(5) Na (206	.2) Havana, Cuba Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, III. Allontown, Pa. Chihuahua, Chih. .8)	24 hours daily 6:30 am11:30 pm 6:30 am11:30 pm 7:00 ammidnight 1:00 pm11:30 pm
1440 CMOA KDFN KELA KX YZ WBIG WCBA WMBD WSAN XEFI 1450 CFCT	kc z ak ak ak ak ak ak ak	Cys. 150 500 1000 1000 1000 500 250 Cys. 500	(208 M B C a C(5) Na (206	.2) Havana, Cuba Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Chihuabua, Chih. .8) Victoria, B. C.	24 hours daily 6:30 am11:30 pm 6:30 am11:30 pm 7:00 ammidnight 1:00 pm11:30 pm 10:45 am12:15 am
1440 CMOA KDFN KELA KX YZ WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS	kc ^z ^{ak} ^{ak} ^{ak} ^{ak} ^{ak}	Cys. 150 500 1000 1000 1000 500 250 Cys. 500 500	(208 M B C a C(5) Na (206	.2)	24 hours daily 6:30 am11:30 pm 6:30 am11:30 pm 7:00 ammidnight 1:00 pm11:30 pm
1440 CMOA KDFN KELA KX YZ WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS	kc z ak ak ak ak ak ak ak	Cys. 150 500 1000 1000 1000 500 250 Cys. 500	(208 M B C a C(5) Na (206 F	.2)	24 hours daily 6:30 am11:30 pm 6:30 am11:30 pm 7:00 ammidnight 1:00 pm11:30 pm 10:45 am12:15 am
1440 CMOA KDEN KELA KX YZ WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS CMHM	ko zakaak akakaaj akakaaj akaka akakz	Cys. 150 500 1000 1000 500 250 Cys. 500 500 100	(208 M B C a C(5) Na (206	.2)	24 hours daily 6:30 am11:30 pm 6:30 am11:30 pm 7:00 ammidnight 1:00 pm11:30 pm 10:45 am12:15 am
1440 CMOA KDFN KELA WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS CMHM KGCX	ko zakaka akaka aka zak akazak	Cys. 150 500 1000 1000 500 1000 250 Cys. 500 500 1000	(208 M B C a C(5) Na (206 F 	.2) Havana, Cuba Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, III. Allentown, Pa. Chihuabua, Chih. .8) Victoria, B. C. Summerside, P.E.I. Cienfuegos, Cuba Wolf Point, Mont.	24 hours daily 6:30 am11:30 pm 6:30 am11:30 pm 7:00 ammidnight 1:00 pm11:30 pm 10:45 am12:15 am 6:30 am10:00 pm
1440 CMOA KDFN KELA WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS CMHM KGCX	ko zakaakaa aakaa aakaa aakaa aakaa aakaa aakaa aakaa aakaa aakaa	Cys. 150 500 1000 500 1000 500 250 Cys. 500 500 1000 500 500 500 500 50	(208 M B C a C(5) Na (206 F M(i)	.2)	24 hours daily 6:30 am11:30 pm 6:30 am11:30 pm -7:00 ammidnight -1:00 pm11:30 pm 10:45 am12:15 am 6:30 am10:00 pm 10:00 am1:00 am
1440 CMOA KDFN KELA WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS CMHM KGCX	kC zakakaajaa kC akk zakkak	Cys. 150 5000 1000 1000 500 250 Cys. 500 500 1000 500 5	(208 M B C a C(5) Na (206 F M(1) N	.2) Havana, Cuba Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Peoria, III. Allentown, Pa. Chihuabua, Chih. .8) Victoria, B. C. Summerside, P.E.I. Cienfuegos, Cuba Wolf Point, Mont. Eureka, Calif. Shreveport, La.	24 hours daily 6:30 am11:30 pm 6:30 am11:30 pm 7:00 ammidnight 1:00 pm11:30 pm 10:45 am12:15 am 6:30 am10:00 pm
1440 CMOA KDFN KELA KXYZ WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS CMHM KGCX KIEM KTBS WAGA	KC zakkaakaa aa aa ka aa ka zakkaakaak	Cys. 150 500 1000 500 250 Cys. 500 500 1000 500 500 1000 500 1000 500 5	$(208) \\ M \\ B \\ C \\ a \\ C(5) \\ Na \\ (206) \\ F \\ F \\ M \\ B \\ (1) \\ B \\ (1) \\ $.2)	24 hours daily 6:30 am11:30 pm 7:00 ammidnight 1:00 pm11:30 pm 10:45 am12:15 am 6:30 am10:00 pm 10:00 am1:00 am 7:30 am1:00 am
1440 CMOA KDFN KELA WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS CMHM KGCX	kC zakakaajaa kC akk zakkak	Cys. 150 5000 1000 1000 500 250 Cys. 500 1000 500 5	$(208) \\ M \\ B \\ C \\ a \\ C(5) \\ Na \\ (206) \\ F \\ F \\ M \\ B \\ (1) \\ B \\ (1) \\ $.2) Havana, Cuba Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Chihuabua, Chih. Allentown, Pa. Chihuabua, Chih. .8) Victoria, B. C. Summerside, P.E.I. Cienfuegos, Cuba Wolf Point, Mont. Eureka, Calif. Shreveport, La. Atlanta, Ga. Cleveland, Ohio	24 hours daily 6:30 am11:30 pm 7:00 am11:30 pm 7:00 ammidnight 1:00 pm11:30 pm 10:45 am12:15 am 6:30 am12:00 pm 10:00 am1:00 am 7:30 am1:00 am
1440 CMOA KDFN KELA KXYZ WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS CMHM KGCX KIEM KTBS WAGA	K zakaka a a a a a a a a a a a a a a a a	Cys. 150 500 1000 1000 1000 500 250 Cys. 500 1000 500 1000 500 1000 500 1000 500 5	(208 M B C a C(5) Na (206 F M(1) N	.2) Havana, Cuba Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Chihuabua, Chih. Allentown, Pa. Chihuabua, Chih. .8) Victoria, B. C. Summerside, P.E.I. Cienfuegos, Cuba Wolf Point, Mont. Eureka, Calif. Shreveport, La. Atlanta, Ga. Cleveland, Ohio	24 hours daily 6:30 am11:30 pm 7:00 am11:30 pm 7:00 ammidnight 1:00 pm11:30 pm 10:45 am12:15 am 6:30 am12:00 pm 10:00 am1:00 am 7:30 am1:00 am
1440 CMOA KDFN KELA KXYZ WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS CMHM KGCX KIEM KTBSA WAGAR WGAR	K zakaka a a a a a a a a a a a a a a a a	$\begin{array}{c} \text{(ys.)}\\ 150\\ 500\\ 1000\\ 1000\\ 500\\ 250\\ 250\\ \text{(ys.)}\\ 500\\ 500\\ 1000\\ 500\\ 1000\\ 500\\ 500\\ 5$	$(208) \\ \begin{array}{c} & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & $.2) Havana, Cuba Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Chihuabua, Chih. Allentown, Pa. Chihuabua, Chih. .8) Victoria, B. C. Summerside, P.E.I. Cienfuegos, Cuba Wolf Point, Mont. Eureka, Calif. Shreveport, La. Atlanta, Ga. Cleveland, Ohio	24 hours daily 6:30 am11:30 pm 7:00 ammidnight 1:00 pm11:30 pm 10:45 am12:15 am 6:30 am10:00 pm 10:00 am1:00 am 7:30 am1:00 am
1440 CMOA KDFN KELA KY WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS CMHM KTBS WAGA WGAR WHOM WSAR	K zakaka a a a a a a a a a a a a a a a a	Cys. 150 500 1000 1000 500 250 Cys. 500 1000 500 1000 500 1000 500 250 250 1000 1000 500 250 1000 1000 250 1000 1000 250 1000 1000 250 1000 1000 250 1000 1000 250 1000 1000 250 1000 1000 500 1000 250 1000 1000 500 1000 250 1000 1000 250 1000 1000 500 1000 1000 500 1000 1000 500 1000 1000 500 1000 1000 1000 500 10	$(208) \\ \begin{array}{c} M \\ M \\ B \\ C(5) \\ Na \\ \hline \\ (206) \\ F \\ \hline \\ M(1) \\ C(1) \\ M \\ \end{array}$.2)	24 hours daily 6:30 am11:30 pm 7:00 am11:30 pm 7:00 ammidnight 1:00 pm11:30 pm 10:45 am12:15 am 6:30 am12:00 pm 10:00 am1:00 am 7:30 am1:00 am
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1440 CMOA KDFN KELA KYZZ WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS CMHM KGCX KIEM KTBS WAGA KGAR WGAR WGAR	K zakaka a a a a a a a a a a a a a a a a	Cys. 150 500 1000 1000 500 250 Cys. 500 1000 500 500 1000 500 1000 500 1000 500 1000 1	$(208) \\ \begin{array}{c} M \\ B \\ C \\ a \\ C \\ S \\ Na \\ \hline \\ (206) \\ F \\ F \\ \hline \\ M \\ C \\ (1) \\ B \\ (1) \\ C \\ (1) \\ M \\ \hline \\ M \\ \hline \end{array} $.2)	24 hours daily 6:30 am11:30 pm 7:00 am11:30 pm 7:00 ammidnight 1:00 pm11:30 pm 10:45 am12:15 am 6:30 am12:00 pm 10:00 am1:00 am 7:30 am1:00 am
1440 CMOA KDFN KELA KY WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS CMHM KTBS WAGA WGAR WHOM WSAR	K zakaka a a a a a a a a a a a a a a a a	Cys. 150 500 1000 1000 500 250 Cys. 500 1000 500 500 1000 500 1000 500 1000 500 1000 1	$(208) \\ \begin{array}{c} M \\ B \\ C \\ a \\ C(5) \\ Na \\ \hline \\ (206) \\ F \\ \hline \\ M(i) \\ B \\ C \\ (1) \\ M \\ \hline \\ M \\ \hline \\ \end{array} $.2)	24 hours daily 6:30 am11:30 pm 7:00 am11:30 pm 7:00 ammidnight 1:00 pm11:30 pm 10:45 am12:15 am 6:30 am10:00 pm 10:00 am1:00 am 7:30 am1:00 am
1440 CMOA KDFN KELA KXYZ WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS CMHM KTBSA WAGA WGAR WOA WSAR XEF 1460	K zakaka a a a a a a a a a a a a a a a a	<pre></pre>	$(208) \\ \begin{array}{c} M \\ M \\ B \\ C(5) \\ Na \\ \hline \\ (206) \\ F \\ \hline \\ M(1) \\ C(1) \\ M \\ \end{array}$.2)	24 hours daily 6:30 am11:30 pm 7:00 am11:30 pm 7:00 ammidnight 1:00 pm11:30 pm 10:45 am12:15 am 6:30 am12:00 pm 10:00 am1:00 am 7:30 am1:00 am
1440 CMOA KDFN KELA KYZZ WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS CMHM KGCX KIEM KTBS WAGA KGAR WGAR WGAR	k zakakaka a a a a a a a a a a a a a a a	Cys. 1500 5000 10000 10000 2500 2500 Cys. 5000 5000 2500 2500 10000 5000 2500 10000 5000 10000 10000 250 25	$(208) \\ \begin{array}{c} M \\ B \\ C \\ a \\ C(5) \\ Na \\ \hline \\ (206) \\ F \\ \hline \\ M(i) \\ B \\ C \\ (1) \\ M \\ \hline \\ M \\ \hline \\ \end{array} $.2)	24 hours daily 6:30 am-11:30 pm 7:00 am-11:30 pm 7:00 am-midnight 1:00 pm11:30 pm 10:45 am12:15 am 6:30 am10:00 pm 10:00 am1:00 am 7:30 am1:00 am 6:30 ammidnight
1440 CMOA KDFN KELA KXYZ WBIG WCBA WCBA WCBA KTBS CFCT CHGS CHHM KGCX KIEM KTBS WAGA WGAR KTBS T460 CMKF	k zakakaka a a a a a a a a a a a a a a a	Cys. 1500 5000 10000 10000 2500 2500 Cys. 5000 5000 2500 2500 10000 5000 2500 10000 5000 10000 10000 250 25	(208 M B C a C(5) Na (206 F M(i) B (1) C (205 M (205 (205) M (205)	.2)	24 hours daily 6:30 am11:30 pm 7:00 am11:30 pm 7:00 ammidnight 1:00 pm11:30 pm 10:45 am12:15 am 6:30 am12:00 pm 10:00 am1:00 am 7:30 am1:00 am
1440 CMOA KDFN KELA KXYZ WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS CHGS CHGS CHGS CHGS CHGS CHGS CHGS	K zakakaki ala k kak zakakakakak K zak	$\begin{array}{c} \text{ys.} \\ 1500 \\ 5000 \\ 5000 \\ 10000 \\ 5000 \\ 2500 \\ 2500 \\ 2500 \\ 2500 \\ 5000 \\ 5000 \\ 5000 \\ 5000 \\ 5000 \\ 5000 \\ 5000 \\ 10000 \\ 1000 $	$(208) \\ \begin{array}{c} M \\ B \\ C \\ a \\ C(5) \\ Na \\ \hline \\ (206) \\ F \\ \hline \\ M(i) \\ B \\ C \\ (1) \\ M \\ \hline \\ M \\ \hline \\ \end{array} $.2)	24 hours daily 6:30 am-11:30 pm 7:00 am-11:30 pm 7:00 am-midnight 1:00 pm11:30 pm 10:45 am12:15 am 6:30 am10:00 pm 10:00 am1:00 am 7:30 am1:00 am 6:30 ammidnight
1440 CMOA KDFN KELA KXYZ WBIG WCBA WCBA WCBA KTBS CFCT CHGS CHHM KGCX KIEM KTBS WAGA WGAR KTBS T460 CMKF	K zakakaki ala k kak zakakakakak K zak	Cys. 1500 5000 10000 10000 2500 2500 Cys. 5000 5000 2500 2500 10000 5000 2500 10000 5000 10000 10000 250 25	(208 M B C a C(5) Na (206 F M(i) B (1) C (205 M (205 (205) M (205)	.2) Havana, Cuba Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Chihuahua, Chih. .8) Victoria, B. C. Summerside, P.E.I. Cienfuegos, Cuba Wolf Point, Mont. Eureka, Calif. Shreveport, La. Atlanta, Ga. Cleveland. Ohio Jersey City, N. J. Fall River, Mass. Juarez, Chih. .4) Holguin, Cuba	24 hours daily 6:30 am-11:30 pm 7:00 am-11:30 pm 7:00 am-midnight 1:00 pm11:30 pm 10:45 am12:15 am 6:30 am10:00 pm 10:00 am1:00 am 7:30 am1:00 am 6:30 ammidnight
1440 CMOA KDFN KELA KXYZ WBIG WCBA WABD WSAN XEFI 1450 CFCT CHGS CMHM KGCX KIEM KTBS WAGA WGA WAGA WAGA CMKF KSTP WJSV	K zakaka a a a a k a a zakaka a a a a a a	CYS. 150 500 500 1000 1000 500 500 5	$(208) \\ \stackrel{M}{\longrightarrow} \\ \stackrel{M}{\longrightarrow} \\ \stackrel{C}{\longrightarrow} \\ \stackrel{C}{\longrightarrow} \\ (206) \\ \stackrel{F}{\longrightarrow} \\ \stackrel{M}{\longrightarrow} \\ \stackrel{M}{\longrightarrow} \\ (205) \\ \stackrel{M}{\longrightarrow} \\ (205) \\ \stackrel{R}{\longrightarrow} \\ (25) \\ \stackrel{C}{\longrightarrow} \\ (25) \\ \stackrel{R}{\longrightarrow} \\ ($.2)	24 hours daily 6:30 am-11:30 pm 7:00 am-11:30 pm 7:00 am-midnight 1:00 pm11:30 pm 10:45 am12:15 am 6:30 am10:00 pm 10:00 am1:00 am 7:30 am1:00 am 6:30 ammidnight
1440 CMOA KDFN KELA KXYZ WBIG WCBA WMBD WSAN XEFI 1450 CFCT CHGS CHGS CHGS CHGS CHGS CHGS CHGS CHGS	K zakaka a a a a k a a zakaka a a a a a a	CYS. 150 500 500 1000 1000 500 500 5	(208 M B C a C(5) Na (206 F M(i) B (1) C (205 M (205 (205) M (205)	.2)	24 hours daily 6:30 am-11:30 pm 7:00 am-11:30 pm 7:00 am-midnight 1:00 pm11:30 pm 10:45 am12:15 am 6:30 am10:00 pm 10:00 am1:00 am 7:30 am1:00 am 6:30 ammidnight
1440 CMOA KDFN KELA KXYZ WBIG WCBA WABD WSAN XEFI 1450 CFCT CHGS CMHM KGCX KIEM KTBS WAGA WHOM WSAR XEF 1460 CMKF KSTP WJSV 1470	K zakaka a a a a a a a a a a a a a a a a	CYS. 1500 500 500 500 1000 500 1000 500 5	$\begin{array}{c} (208 \\ & \\ M \\ B \\ C \\ a \\ C(5) \\ Na \\ \hline \\ (206 \\ F \\ M(i) \\ B \\ (1) \\ C \\ (1) \\ M \\ \hline \\ (205 \\ R \\ (25) \\ C \\ C \\ (204 \\ R \\$.2) Havana, Cuba Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Poria, III. Allentown, Pa. Chihuabua, Chih. .8) Victoria, B. C. Summerside, P.E.I. Cienfuegos, Cuba Wolf Point, Mont. Eureka, Calif. Shreveport, La. Atlanta, Ga. Cleveland. Ohio Jersey City. N. J. Fall River, Mass. Juarez, Chih. .4) Holguin, Cuba St. Paul, Minn. Washington, D. C. .0)	24 hours daily 6:30 am-11:30 pm 7:00 am-11:30 pm 7:00 am-midnight 1:00 pm11:30 pm 10:45 am12:15 am 6:30 am10:00 pm 10:00 am1:00 am 7:30 am1:00 am 6:30 ammidnight
1440 CMOA KDFN KELA KXYZ WBIG WCBA WABD WSAN XEFI 1450 CFCT CHGS CMHM KGCX KIEM KTBS WAGA WHOM WSAR XEF 1460 CMKF KSTP WJSV 1470	K zaaaaaaja K aazaaaaaaaaa K zaa K ak	CYS. 150 500 500 1000 1000 250 CYS. 500 1000 500 500 500 500 500 50	$(208) \\ \begin{array}{c} M \\ M \\ B \\ C \\ a \\ C \\ C \\ T \\ T \\ C \\ C \\ T \\ T \\ T \\ C \\ C$.2) Havana, Cuba Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Poria, III. Allentown, Pa. Chihuabua, Chih. .8) Victoria, B. C. Summerside, P.E.I. Cienfuegos, Cuba Wolf Point, Mont. Eureka, Calif. Shreveport, La. Atlanta, Ga. Cleveland. Ohio Jersey City. N. J. Fall River, Mass. Juarez, Chih. .4) Holguin, Cuba St. Paul, Minn. Washington, D. C. .0)	24 hours daily 6:30 am-11:30 pm 7:00 am-11:30 pm 7:00 am-midnight 1:00 pm11:30 pm 10:45 am12:15 am 6:30 am10:00 pm 10:00 am1:00 am 7:30 am1:00 am 6:30 ammidnight
1440 CMOA KDFN KELA KXYZ WBIG WCBA WABD WSAN XEFI 1450 CFCT CHGS CMHM KGCX KIEM KTBS WAGA WHOM WSAR XEF 1460 CMKF KSTP WJSV 1470	K zakaka a a a a a a a a a a a a a a a a	CYS. 1500 500 500 500 1000 500 1000 500 5	$\begin{array}{c} (208 \\ & \\ M \\ B \\ C \\ a \\ C(5) \\ Na \\ \hline \\ (206 \\ F \\ M(i) \\ B \\ (1) \\ C \\ (1) \\ M \\ \hline \\ (205 \\ R \\ (25) \\ C \\ C \\ (204 \\ R \\$.2) Havana, Cuba Casper, Wyo. Centralia, Wash. Houston, Texas Greensboro, N. C. Allentown, Pa. Poria, III. Allentown, Pa. Chihuabua, Chih. .8) Victoria, B. C. Summerside, P.E.I. Cienfuegos, Cuba Wolf Point, Mont. Eureka, Calif. Shreveport, La. Atlanta, Ga. Cleveland. Ohio Jersey City. N. J. Fall River, Mass. Juarez, Chih. .4) Holguin, Cuba St. Paul, Minn. Washington, D. C. .0)	24 hours daily 6:30 am-11:30 pm 7:00 am-11:30 pm 7:00 am-midnight -1:00 pm11:30 pm 10:45 am-12:15 am 6:30 am-10:00 pm 10:00 am-1:00 am 7:30 am-1:00 am 6:30 am-midnight
1440 CMOA KDFN KELA KYZZ WBIG WCBA WMBD WSAN XEF 1450 CFCT CHGS CMHM KTBSA WGAR WHOM WSAR XEF 1460 CMKF KSTP WJSV 1470 KGA WLAC	K zaaaaaaja K aazaaaaaaaaa K zaa K aa	CYS. 150 500 500 500 500 500 500 500	$\begin{array}{c} (208 \\ \stackrel{M}{\longrightarrow} \\ B \\ C \\ a \\ C(5) \\ Na \\ (206 \\ \stackrel{F}{\longrightarrow} \\ (206 \\ \stackrel{F}{\longrightarrow} \\ (206 \\ \stackrel{K}{\longrightarrow} \\ (205 \\ \stackrel{R}{\longrightarrow} \\ (205 \\ \stackrel{R}{\longrightarrow} \\ (204 \\ \stackrel{BM}{\longrightarrow} \\ \\ BM \\ C \\ \end{array}$.2)	24 hours daily 6:30 am-11:30 pm 7:00 am-11:30 pm 7:00 am-midnight 1:00 pm11:30 pm 10:45 am12:15 am 6:30 am10:00 pm 10:00 am1:00 am 7:30 am1:00 am 6:30 ammidnight
1440 CMOA KDFN KELA KYZZ WBIG WCBA WMBD WSAN XEF 1450 CFCT CHGS CMHM KTBSA WGAR WHOM WSAR XEF 1460 CMKF KSTP WJSV 1470 KGA WLAC	K zaaaaaaja K aazaaaaaaaaa K zaa K aa	CYS. 150 500 500 500 500 500 500 500	$\begin{array}{c} (208 \\ \stackrel{M}{\longrightarrow} \\ B \\ C \\ a \\ C(5) \\ Na \\ (206 \\ \stackrel{F}{\longrightarrow} \\ (206 \\ \stackrel{F}{\longrightarrow} \\ (206 \\ \stackrel{K}{\longrightarrow} \\ (205 \\ \stackrel{R}{\longrightarrow} \\ (205 \\ \stackrel{R}{\longrightarrow} \\ (204 \\ \stackrel{BM}{\longrightarrow} \\ \\ BM \\ C \\ \end{array}$.2)	24 hours daily 6:30 am-11:30 pm 7:00 am-11:30 pm 7:00 am-midnight 1:00 pm11:30 pm 10:45 am12:15 am 6:30 am10:00 pm 10:00 am1:00 am 7:30 am1:00 am 6:30 ammidnight
1440 CMOA KDFN KELA KXYZ WBIG WCBA WABD WSAN XEFI 1450 CFCT CHGS CMHM KGCX KIEM KTBS WAGA WHOM WSAR XEF 1460 CMKF KSTP WJSV 1470	K zaaaaaaja K aazaaaaaaaaa K zaa K aa	CYS. 150 500 500 1000 1000 250 CYS. 500 1000 500 500 500 500 500 50	$(208) \\ \begin{array}{c} M \\ M \\ B \\ C \\ a \\ C \\ C \\ T \\ M \\ C \\ C \\ T \\ M \\ C \\ C \\ C \\ C \\ C \\ C \\ C \\ C \\ C$.2)	24 hours daily 6:30 am11:30 pm 7:00 ammidnight 1:00 pm11:30 pm 10:45 am12:15 am 6:30 am10:00 pm 10:00 am1:00 am 7:30 am1:00 am 6:30 ammidnight -7:00 am2:00°am
1440 CMOA KDFN KELA KXYZ WBIG WCBA WABD WSAN XEF 1450 CFCT CHGS CHGS CHGS CHGS CHGS CHGS CHGS CHGS	K zakakakajakija K kak zakakakakakak K zaka K aka K	CYS. 150 500 500 1000 1000 250 CYS. 500 500 500 500 500 1000 1000 250 1000 1000 250 1000 250 1000 250 250 1000 250 1000 250 1000 250 1000 250 1000 250 1000 250 1000 250 1000 250 1000 250 1000 250 1000 250 1000 250 1000 250 1000 250 1000 1000 250 1000 1000 250 1000 1000 250 1000 1000 250 1000 1000 250 1000 1000 250 1000 1000 250 1000 1000 250 1000 1000 250 1000 1000 250 1000 1000 250 1000 1000 250 1000 1000 250 1000 1000 250 250 250 250 250 250 250	$\begin{array}{c} (208 \\ \hline M \\ B \\ C \\ a \\ C(5) \\ \hline Na \\ \hline (206 \\ \hline F \\ \hline M \\ C \\ (206 \\ \hline F \\ \hline M \\ C \\ (205 \\ \hline R \\ (25) \\ C \\ (204 \\ BM \\ C \\ (202 \\ \hline C \\ (202 \\ \hline C \\ (202 \\ \hline C \\ C \\ (202 \\ \hline ($.2)	24 hours daily 6:30 am11:30 pm 7:00 ammidnight 1:00 pm11:30 pm 10:45 am12:15 am 6:30 am10:00 pm 10:00 am1:00 am 7:30 am1:00 am 6:30 ammidnight -7:00 am2:00°am
1440 CMOA KDFN KELA KYZZ WBIG WCBA WMBD WSAN XEF 1450 CFCT CHGS CMHM KTBSA WGAR WHOM WSAR XEF 1460 CMKF KSTP WJSV 1470 KGA WLAC	K zaaaaaaja K aazaaaaaaaaa K zaa K aa	CYS. 150 500 500 500 500 500 500 500	$\begin{array}{c} (208 \\ \stackrel{M}{\longrightarrow} \\ B \\ C \\ a \\ C(5) \\ Na \\ (206 \\ \stackrel{F}{\longrightarrow} \\ (206 \\ \stackrel{F}{\longrightarrow} \\ (206 \\ \stackrel{K}{\longrightarrow} \\ (205 \\ \stackrel{R}{\longrightarrow} \\ (205 \\ \stackrel{R}{\longrightarrow} \\ (204 \\ \stackrel{BM}{\longrightarrow} \\ \\ BM \\ C \\ \end{array}$.2)	24 hours daily 6:30 am-11:30 pm 7:00 am-11:30 pm 7:00 am-midnight -1:00 pm11:30 pm 10:45 am-12:15 am 6:30 am-12:00 pm 10:00 am-1:00 am 7:30 am-1:00 am 6:30 am-midnight

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WHIP WKBW	z 5000 ak 5000	D C	Hammond, Ind. Buffalo, N. Y.	—7:30 am—5:30 pm —8:00 am—1:00 am
1490	kcys.	(201	.2)	
KFBK WCK Y	ak 5000 ak 10000	N X N	Sacramento, Calif.	
			Covington, Ky.	—7:00 am—midnight
1500 слс	kcys.	(199		10.00
KAWM KBIX	z 100 ak 100	M	S. S. Marie, Ont. Gallup, N. Mex. Muskedea, Okla	
KBST KDAL	z 100 ak 100	<i>c</i>	Muskogee, Okla. Big Spring, Texas Duluth, Minn.	-8:00 am-11:00 pm
KDB	ak 100	M(.25) (.25)	Santa Barbara, Cal. Brownsville, Tex.	
KGFI KGKB KGKY	ak 100 ak 100	(.25)	i yier, i exas	
KNEL	ak 100 ak 250	$D^{(.23)}$	Scottsbluff, Neb. Brady, Texas Austin, Texas	—8:30 am—11:00 pm —8:00 am—6:00 pm
KNOW KOTN	ak 100 ak 100	й	Austin, Texas Pine Bluff, Ark.	
KOVC KPAB	ak 100 z 100	(.25) (.25) P	Valley City, N. D.	-8:00 am-10:00 pm
KPLC KPLT	ak 100 z 250	(.25) D	Laredo, Texas Lake Charles, La. Paris, Texas	
KPQ KRNR	ak 100N	M(.25) M(.25)	Wenatchee, Wash.	
KROD KSAL	ak 100 ak 100	P	Roseburg, Ore. El Paso, Texas Salina, Kans.	
KUTA KVNU	z 100 z 100	(.25) P P		
KVOE	ak 100	М	Logan, Utah Santa Ana, Calif. Hobbs, N. Mex.	Noon to 2:00 am
KWEW KXO	ak 100	DP	El Centro, Calif.	—11:00 am—midnight
K YSM WCNW	z 100 ak 100	(.25)P 1 (.25)	El Centro, Calif. Mankato, Minn. Brooklyn, N. Y. Durham, N. C.	—9:00 am—midnight
WDNC WGAL	ak 100 ak 100	C (.25)	Lancaster, Pa.	-7:30 am-12:30 am
WGIL WHBB	z 250 ak 100	DP	Galesburg, Ill. Selma, Ala.	
WHEF WJBK WKAT	ak 100 ak 100	(.25) (.25)	Kosciusko, Miss. Detroit, Mich.	
WKAT WKBB	z 100 ak 100	(.25) C	Miami Beach, Fla. Y E. Dubuque, Ill.	·
WKBV WKBZ	ak 100 ak 100	(.25) (.25)	Richmond, Ind. Muskegon, Mich.	-7:00 am-10:00 pm
WKEU WMBQ	ak 100 ak 190	D 1	Griffin, Ga.	
WMEX WNBF	ak 100 ak 100	(.25) C(.25)	Brooklyn, N. Y. Boston, Mass. Binghamton, N. Y.	
WNLC WOMI	ak 100 ak 100	C(.25) DM (.25)	New London, Conn.	6.00 am midnidht
WOPI WRDW	ak 100 ak 100	C(.25)	Owensboro, Ky. Bristol, Tenn.	
WRGA	ak 100	(.25) B	Augusta, Ga. Rome, Ga.	
WRTD WSYB WTMV	z 100 ak 100		Richmond, Va. Rutland, Vt.	7:00 am1:00 am 10:00 am9:00 pm
WWRL	ak 100 ak 100	(.25) 1 (.25) (.25)	E. St. Louis, III. Woodside, N. Y.	
wwsw 1510	ak 100 kcys.	(198	Pittsburgh, Pa.	
CFRC	ak 100	F	Kingston, Ont.	-Noon-11:00 pm
CKCR	ak 100	• • • •	Waterloo, Ont.	-8:00 am-11:00 pm
1520	kcys.	(197	.3)	
TGW	ak 1000 1		Guatemala City, Gu	at.
1530	kcys.	(196.		
KXBY TGW	ak 1000 ak 1000	122	Kansas City, Mo. Guatemala City, Gu	8:00 am3:30 am at.
WBR Y	ak 1000	М	Waterbury, Conn.	-8:00 am-midnight
1550	kcys.	(193.	4)	
KPMC WQXR	ak 1000 ak 1000		Bakersfield, Calif. New York, N. Y.	—10:00 am—2:00 am —10:00 am—9:15 pm
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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.

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ALABAMA	Pine Bluff KOTN 1500 100	KSFO 560 1000 C KYA 1230 1000	DELAWARE
Birmingham	Siloam Springs	San Jose	Wilmington WDEL 1120 250 R
WAPI 1140 5000 C WBRC 930 1000 R	KUOA 1260 5000	KQW 1010 1000M	WILM 1420 100
WSGN 1310 100 B	CALIFORNIA	San Luis Obispo KVEC 1200 250	DISTRICT OF
Decatur WMFO 1370 100	CALIFORNIA	Santa Ana	COLUMBIA
Dothan	Bakersfield	KVOE 1500 100M Santa Barbara	Washington
WAGF 1370 250	KERN 1370 100 N KPMC 1550 1000M	KDB 1500 100M	Washington WJSV 1460 10000 C
Gadsden WJBY 1210 100	Berkeley	KTMS 1220 500 B	WMAL 630 250 B WOL 1310 1000 M
Huntsville	KRE 1370 100 Beverly Hills	Santa Rosa KSRO 1310 250	WRC 950 500 R
WBHP 1200 100	KMPC 710 500 Chico	Stockton	FLORIDA
Mobile WALA 1380 500 C	KHSL 1260 250	KGDM 1100 1000M KWG 1200 100N	FLORIDA
Montgomery	El Centro KXO 1500 100	Visalia	Daytona Beach
WSFA 1410 500 C	Eureka	KTKC 1190 250	WMFJ 1420 100 Gainesville
Selma WHBB 1500 100	KIEM 1450 500M Fresno	Watsonville KHUB 1310 250	WRUF 830 5000
Sheffield	KARM 1310 100 C		Jacksonville WJAX 900 1000 N
WMSD 1420 100 Tuscaloosa	Glendale	COLORADO	WJAX 900 1000 N WMBR 1370 100 C
WJRD 1200 250	KIEV 850 250 Hollywood		Lakeland
	KFWB 950 1000	Alamosa	WLAK 1310 100 Miami
ALASKA	Long Beach KFOX 1250 1000	KGIW 1420 100 Colorado Springs	WIOD 610 1000 N
Anchorage	KGER 1360 1000	KVOR 1270 1000 C	WMBF 610 1000 WOAM 560 1000 C
KFQD 780 250	Los Angeles KECA 1430 1000 B	Denver KFEL 920 500M	Miami Beach
Juneau KINY 1310 100	KEHE 780 1000	KLZ 560 1000 C	WKAT 1500 100
Ketchikan	KFAC 1300 1000 KF1 640 50000 R	KOA 830 50000 R KPOF 880 1000	Orlando WDBO 580 1000 C
KGBU 900 500	KFSG 1120 500	KVOD 920 500 B Durango	Pensacola
1.DIZONA	KFVD 1000 1000 KGFJ 1200 100	KIUP 1370 100	WCOA 1340 500 C St. Augustine
ARIZONA	KHJ 900 1000M KMTR 570 1000	Grand Junction KFXJ 1200 100	WFOY 1210 100
Jerome	KNX 1050 50000 C	Greeley	St. Petersburg WSUN 620 1000 N
KCRJ 1310 100 Lowel1	KRKD 1120 500	KFKA 880 500M	Tallahassee
KSUN 1200 100	Merced KYOS 1040 250	La Junta KOKO 1370 100	WTAL 1310 100 Tampa
Phoenix	Modesto	Lamar	WDAE 1220 1000 C
KOY 1390 1000 C KTAR 620 1000 N	KTRB 740 250	KIDW 1420 100 Pueblo	WFLA 620 1000 N West Palm Beach
Tucson	Monterey KDON 1210 100M	KGHF 1320 500 B	WJNO 1200 100 C
KGAR 1370 100 C KVOA 1260 1000	Oakland	Sterling KGEK 1200 100	GEORGIA
Yuma	KLS 1280 250 KLX 880 1000	KGEK 1200 100	
KUMA 1420 100	KROW 930 1000		Albany WGPC 1420 100
ADVANCAS	Pasadena KPPC 1210 100	CONNECTICUT	Athens
ARKANSAS	Redding	Bridgeport	WGAU 1310 100 Atlanta
Blytheville	KVCV 1200 100	WICC 600 500M	WAGA 1450 500 B
KLČN 1290 100	Sacramento KFBK 1490 5000 N	Hartford WDRC 1330 1000 C	WGST 890 1000 C
El Dorado KELD 1370 100	KROY 1210 100 C	WTIC 1040 50000 R	WSB 740 50000 R Augusta
Fort Smith	San Bernardino KFXM 1210 100M	WTHT 1200 100M	WRDW 1500 100 C
KFPW 1210 100	San Diego	New Britain WNBC 1380 250	Columbus WRBL 1200 100
Hot Springs KTHS 1060 10000 N	KFSD 600 1000 B KGB 1330 1000M	New Haven	Griffin WKEU 1500 100
Jonesboro	San Francisco	WELI 900 500	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	KGO 790 7500 B	Waterbury	WRGA 1500 100
KGHI 1200 100 KLRA 1390 1000 C	KJBS 1070 500 KPO 680 50000 R	WATR 1190 100 WBRY 1530 1000M	Savannah WTOC 1260 1000 C

	P		
Thomasville WPAX 1210 100	Rockford WROK 1410 500	Marshalltown KFJB 1200 100	Lake Charles KPLC 1500 100
Waycross WAYX 1200 100	Rock Island WHBF 1210 100	Mason City KGLO 1210 100 C	Monroe KMLB 1200 100
	Springfield	Shenandoah	New Orleans
HAWAII	WCBS 1420 100 WTAX 1210 100	KFNF 890 500	WBNO 1200 100
1111	Tuscola	KMA 930 1000 Sioux City	WDSU 1250 1000 B WJBW 1200 100
Hilo KHBC 1400 250M	WDZ 1020 250 Urbana	KSCJ 1330 1000 C KTRI 1420 100	WSMB 1320 1000 R WWL 850 10000 C
Honolulu KGMB 1320 1000 C	WILL 580 1000		Shreveport
KGU 750 2500 N		KANSAS	KRMD 1310 100 KTBS 1450 1000 N
	INDIANA	Abilano	KWKH 1100 10000 C
1DAHO		Abilene KFBI 1050 5000	
Putas	Anderson WHBU 1210 100	Coffeyville	MAINE
Boise KIDO 1350 1000 N	Elkhart	KGGF 1010 1000M	Augusta
Coeur d'Alene	WTRC 1310 100	Dodge City KGNO 1340 250	WRDO 1370 100M
KGCI 1200 100	Evansville	Garden City	Bangor
ldaho Falls KID 1320 500	WEOA 1370 100 C WGBF 630 500 N	KIUL 1210 100 Great Bend	WABI 1200 100 WLBZ 620 500 C
Lewiston KRLC 1390 250	Fort Wayne WGL 1370 100 N	KVGB 1370 100	Portland WCSH 940 1000 R
KRLC 1390 250 Nampa	WGL 1370 100 N WOWO 1160 10000 B	Hutchinson KWBG 1420 100	WGAN 640 500
KFXD 1200 100	Gary WIND 560 1000	Kansas City	Presque Isle WAGM 1420 100
Pocatelio KSEI 900 250 N	Hammond	KCKN 1310 100 Lawrence	100
Twin Falls KTFI 1240 1000 N	WHIP 1480 5000 WWAE 1200 100	KFKU 1220 1000	MAR YLAND
KIFI 1240 100014	Indianapolis	WREN 1220 1000 B	D. (
ILLINOIS	WFBM 1230 1000 C WGVA 1050 1000	Manhattan KSAC 580 500	Baltimore WBAL 760 2500 B
	WIRE 1400 1000 R	Pittsburg	WBAL 1060 10000 B
Bloomington	Muncie	KOAM 790 1000 N	WCAO 600 500 C WCBM 1370 100
WJBC 1200 100	WLBG 1310 100	Salina KSAL 1500 100	WFBR 1270 500 R
Carthage WCAZ 1070 100	New Albany WGRC 1370 250	Topeka W1BW 580 1000 C	College Park W3XJ 1060 100
Champaign WDWS 1370 100	Richmond WKBV 1500 100	Wichita	Cumberland WTBO 800 250
Chicago WAAF 920 1000	South Bend WFAM 1200 100	KANS 1210 100 B KFH 1300 1000 C	Frederick
WBBM 770 50000 C	WSBT 1360 500		WFMD 900 500
WCBD 1080 5000 WCFL 970 5000 N	Terre Haute	KENTUCKY	Hagerstown WJEJ 1210 50
WCFL 970 5000 N WCRW 1210 100	WBOW 1310 100 N		Salisbury
WEDC 1210 100 WENR 870 50000 B	West Lafayette WBAA 890 500	Ashland WCM1 1310 100	WSAL 1200 250
WGES 1360 500		Covington	· · · · · · · · · · · · · · · · · · ·
WGN 720 50000M WJJD 1130 20000	IOWA	WCK Y 1490 10000 N	MASSACHUSETTS
WLS 870 50000 B		Lexington	Boston
WMAQ 670 50000 R	Ames	WLAP 1420 100	WAAB 1410 500M
WMBI 1080 5000 WSBC 1210 100	WOI 640 5000	Louisville WAVE 940 1000 N	WBZ 990 50000 B WCOP 1120 500
Cicero	Boone KFGQ 1370 100	WHAS 820 50000 C	WEEI 590 1000 C
WHFC 1420 100	Cedar Rapids	Middlesboro WLMU 1210 100	WHDH 830 1000 WMEX 1500 100
Decatur WJBL 1200 100	WMT 600 1000 B	Owensboro	WNAC 1230 1000 R
East Dubuque	Davenport WOC 1370 100 C	WOMI 1500 100	WORL 920 500
WKBB 1500 100 C East St, Louis	Decorah	Paducah	Fall River WSAR 1450 1000M
WTMV 1500 100	KGCA 1270 100	WPAD 1420 100	Greenfield
Galesburg WGIL 1500 250	KWLC 1270 100	LOUISIANA	WHAI 1210 250 Lawrence
Harrisburg	Des Moines KRNT 1320 1000 C		WLAW 680 1000
WEBO 1210 100 Joliet	KSO 1430 500 B	Alexandria	WLEH 1370 100 Lowell
WCLS 1310 100	WHO 1000 50000 R Dubuque	KALB 1210 100	WLLH 1370 100M
Peoria WMBD 1440 1000 C	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
WEALD 700 1000	1501 000 300	KVOL 1310 100	

Springfield WBZA 990 1000 B	St. Paul KSTP 1460 10000 R	Wolf Point KGCX 1450 1000	Gallup KAWM 1500 100
WMAS 1420 100 C WSPR 1140 500M	WMIN 1370 100 Virginia	NEBRASKA	Hobbs KWEW 1500 100
Worcester	WHLB 1370 100 C	NEBRASKA	Roswell
WORC 1280 500 C WTAG 580 1000 R	Winona KWNO 1200 250	Clay Center	KGFL 1370 100 Santa Fe
		KMMJ 740 1000 Kearney	KRQA 1310 100
MICHIGAN	MISSISSIPPI	KGFW 1310 100 Lincoln KFAB 770 10000 C	NEW YORK
Battle Creek WELL 1420 100	Grenada WGRM 1210 100	KFAB 770 10000 C KFOR 1210 100 C Norfolk	
Bay City WBCM 1410 500	Gulfport WGCM 1210 100	WJAG 1060 1000 North Platte	Albany WABY 1370 100 WOKO 1430 500 C
Calumet	Hattiesburg WFOR 1370 100	KGNF 1430 1000 Omaha	Auburn
WHDF 1370 100 Detroit	Jackson WJDX 1270 1000 R	KOIL 1260 1000 B	WMBO 1310 100
WJBK 1500 100	Kosciusko	WAAW 660 500	Binghamton WNBF 1500 100 C
WJR 750 50000 C WMBC 1420 100	WHEF 1500 100	WOW 590 1000 R	
WWJ 920 5000 R	Laurel WAML 1310 100	Scottsbluff KGKY 1500 100	Brooklyn WARD 1400 500
WXYZ 1240 1000 B	Meridian	ROAT 1000 100	WBBC 1400 500
East Lansing	WCOC 880 500 C	NEVADA	WBBR 1300 1000
WKAR 850 1000 Flint	Vicksburg WOBC 1360 1000	NEVADA	WCNW 1500 100 WLTH 1400 500
WFDF 1310 100	WQBC 1360 1000	Reno	WMBQ 1500 100
Grand Rapids		KOH 1380 500 C	WVFW 1400 500
WASH 1270 500 N	MISSOURI		Buffalo
WOOD 1270 500 N Ironwood		NEW HAMPSHIRE	WBEN 900 1000 R WBNY 1370 100
WJMS 1420 .100	Cape Girardeau KFVS 1210 100	Laconia	WEBR 1310 100 B
Jackson WIBM 1370 100	Columbia	WLNH 1310 100M	WGR 550 1000 C WKBW 1480 5000 C
Kalamazoo	KFRU 630 500 Jefferson City	Manchester	WSVS 1370 50
WKZO 590 1000 B Lansing	KWOS 1310 100 Joplin	WFEA 1340 500 N Portsmouth	Canton WCAD 1220 500
WJIM 1210 100	WMBII 1420 100 Kansas City	WHEB 740 250	Elmira WESG 850 1000 C
Lapeer WMPC 1200 100	KCMO 1370 100 KMBC 950 1000 C	NEW JERSEY	Freeport WGBB 1210 100
Marquette WBEO 1310 100	KXBY 1530 1000 WDAF 610 1000 R	Asbury Park	Jamestown WJTN 1210 100 B
Muskegon WKBZ 1500 100	WHB 860 1000M Poplar Bluff	WCAP 1280 500 Atlantic City	Newburgh WGNY 1210 100
Royal Oak	KWOC 1310 100 St. Joseph	WPG 1100 5000 C	New York WABC 860 50000 C
WEXL 1310 50 Saginaw	KFEQ 680 2500	Bridgeton WSNJ 1210 100	WBIL 1100 5000 WBNX 1350 1000
WHAL 950 500	St. Louis KFUO 550 500	Camden WCAM 1280 500	WBOQ 860 50000
	KMOX 1090 50000 C KSD 550 1000 R	Jersey City	WEAF 660 50000 R WEVD 1300 1000
MINNESOTA	KSD 550 1000 R KWK 1350 1000 B	WAAT 940 500	WFAB 1300 1000
	KXOK 1250 1000	WHOM 1450 250	WHN 1010 1000
Albert Lea KATE 1420 250	WEW 760 1000	Newark	WINS 1180 1000 WJZ 760 50000 B
Duluth	WIL 1200 100 Springfield	WHBI 1250 1000 WOR 710 50000M	WMCA 570 1000
KDAL 1500 100 C	KGBX 1230 500 N		WNEW 1250 1000
WEBC 1290 1000 N	KWTO 560 5000	Red Bank WBRB 1210 100	WNYC 810 1000 WOV 1130 1000
Fergus Falls KGDE 1200 100		Trenton	WQXR 1550 1000
Hibbing	MONTANA	WTNJ 1280 500	Olean
WMFG 1210 100	Billings	Whippany W2XDD 50000	WHDL 1400 250
Mankato KYSM 1500 100	KGHL 780 1000 N	W3XDD 50000 Zarephath	Plattsburg WMFF 1310 100
Minneapolis WCCO 810 50000 C	Butte KGIR 1340 1000 N	WAWZ 1350 500	Rochester
WDGY 1180 1000 C	Great Falls		WHAM 1150 50000 B
WLB 1250 1000 WTCN 1250 1000 B	KFBB 1280 1000 C Helena	NEW MEXICO	WHEC 1430 500 C WSAY 1210 100
Moorhead KVOX 1310 100	KPFA 1210 100	Albuquerque KGGM 1230 1000	Saranac Lake WNBZ 1290 100
Northfield	Kalispell KGEZ 1310 100	KOB 1180 10000 N	Schenectady
WCAL 1250 1000 Rochester	Lewistown KDNC 1200 100	Carisbad KLAH 1210 100	WGY 790 50000 R
KROC 1310 100 St. Cloud	Missoula	Clovis	Syracuse WFBL 1360 1000 C
KFAM 1420 100	KGVO 1260 1000 C	KICA 1370 100	WSYR 570 1000 B
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		THE BELLE	entrono
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	KBPS 1420 100 KEX 1180 5000 B	
Watertown	WGAR 1450 500 C	KGW 620 1000 R	PUERTO RICO
WNNY 1420 100	WHK 1390 1000 B WTAM 1070 50000 R	KOIN 940 1000 C KWJJ 1040 500	Mayaguez WPRA 1370 100
White Plains WFAS 1210 100	Columbus	KXL 1420 100	Ponce
Woodside	WBNS 1430 500 C WCOL 1210 100 N	Roseburg KRNR 1500 100M	WPRP 1420 100 San Juan
WWRL 1500 100	WHKC 640 500 WOSU 570 750	Salem KSLM 1370 100M	WKAQ 1240 1000 WNEL 1290 1000
NORTH CAROLINA	Dayton WHIO 1260 1000 C WSMK 1380 200 C		RHODE ISLAND
Asheville WWNC 570 1000 N	WSMK 1380 200 C	PENNSYLVANIA	Providence
Charlotte WBT 1080 50000 C	WBLY 1210 100	Allentown	WEAN 780 1000M WJAR 890 1000R
WSOC 1210 100 N	Portsmouth WPAY 1370 100	WCBA 1440 500	WPRO 630 500 C
Durham WDNC 1500 100 C	Toledo WSPD 1340 1000 B	WSAN 1440 500 N Altoona	SOUTH CAROLINA
Greensboro WBIG 1440 1000 C	WTOL 1200 100	WFBG 1310 100	Anderson
High Point WMFR 1200 100	Youngstown WKBN 570 500 C	Easton WEST 1200 100 Erie	WAIM 1200 100 C Charleston
Kinston WFTC 1200 100 Raleigh	Zanesville WALR 1210 100	WLEU 1420 100 B	WCSC 1360 500 N Columbia
WPTF 680 1000 N		Glenside WIBG 970 100	WIS 560 1000 N Florence
Rocky Mount WEED 1420 100	Ada	Greensburg WHJB 620 250 C	WOLS 1200 100 Greenville
Wilmington WMFD 1370 100	KADA 1200 100M Ardmore	Grove City WSAJ 1310 100	WFBC 1300 1000 N Spartanburg WSPA 920 1000
Wilson WGTM 1310 100	KVSO 1210 100M Elk City	Harrisburg WHP 1430 500 C	
Winston-Salem WAIR 1250 250	KASA 1210 100 Enid	WKBO 1200 100 Hazleton	SOUTH DAKOTA
WSJS 1310 100 C	KCRC 1360 250M Muskogee	WAZL 1420 100	Aberdeen KABR 1420 100
NORTH DAKOTA	KBIX 1500 100M Norman	Johnstown WJAC 1310 100	Brookings KFDY 780 1000
Bismarck	WNAD 1010 1000 Oklahoma City	Lancaster WGAL 1500 100	Huron KGDY 1340 250
KFYR 550 1000 N Devils Lake	KFXR 1310 100 KOMA 1480 5000 C	Philadelphia KYW 1020 10000 R	Pierre KGFX 630 200
KDLR 1210 100	KTOK 1370 100M WKY 900 1000 N	WCAU 1170 50000 C	KOBH 1370 100
Fargo WDAY 940 1000 N	Okmulgee	WDAS 1370 100 WFIL 560 1000 B	WCAT 1200 100 Sioux Falls
Grand Forks	KHBG 1210 100 Ponca City	WHAT 1310 100 WIP 610 1000	KELO 1200 100 N
KFJM 1410 500	WBBZ 1200 100M	WPEN 920 1000	KSOO 1110 2500 N Vermillion
Jamestown KRMC 1370 100	Shawnee KGFF 1420 100M	WRAX 920 1900 WTEL 1310 100	KUSD 890 500 Watertown
Mandan KGCU 1240 250	Tulsa KTUL 1400 500 C	Pittsburgh KDKA 980 50000 B	KWTN 1210 100 Yankton
Minot KLPM 1240 250	KVOO 1140 25000 N	KOV 1380 500 C WCAE 1220 1000 R	WNAX 570 1000 C
Valley City KOVC 1500 100	OREGON	WJAS 1290 1000 C WWSW 1500 100	TENNESSEE
	Astoria KAST 1370 100	Reading WEEU 830 1000 WRAW 1310 100	Bristol WOPI 1500 100
OHIO	Corvallis KOAC 550 1000	Scranton	Chattanooga WAPO 1420 100
Akron WADC 1320 1000 C	Eugene	WGBI 880 500 WQAN 880 500	WDOD 1280 1000 C
WJW 1210 100 Ashtabula	KORĔ 1420 100M Klamath Falls	Sunbury WKOK 1210 100	Jackson WTJS 1310 100
WICA 940 250	KFJI 1210 100	Uniontown	Knoxville WNOX 1010 1000 C
Canton WHBC 1200 100	La Grande KLBM 1420 100	WMBS 1420 250 Wilkes-Barre	WROL 1310 100 N
Cincinnati WCPO 1200 100	Marshfield KOOS 1200 100	WBAX 1210 100M WBRE 1310 100 N	Memphis WHBQ 1370 100
WKRC 550 1000 C	Medford	Williamsport	WMC 780 1000 R WMPS 1430 500 B
WLW 700 500000 N	KMED 1410 250 N	WRAK 1370 100	WMPS 1430 500 B WREC 600 1000 C

Nashville	San Angelo	Bellingham	WISN 1120 250 C
WLAC 1470 5000 C	KGKL 1370 100	KVOS 1200 100M	WTMJ 620 1000 N
WSIX 1210 100	San Antonio	Centralia	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
	KTSA 550 1000 C	Longview	Sheboygan
Abilene	WOAI 1190 50000 N	KWLK 780 250	WHBL 1300 250
KRBC 1420 100	Sherman	Olympia	Stevens Point
Amarillo	KRRV 1310 250	KGY 1210 100M	WLBL 900 5000
KGNC 1410 1000 N	Temple	Pullman	Superior
Austin	KTEM 1370 250 Texarkana	KWSC 1220 1000	WDSM 1200 100
KNOW 1500 100 C	KCMC 1420 100	Seattle	Wausau
KTBC 1120 1000	Tyler	KEEN 1370 100	WSAU 1370 100
Beaumont KFDM 560 500 N	KGKB 1500 100	KIRO 710 1000 C KJR 970 5000 B	WYOMING
KFDM 560 500 N	Waco	KOL 1270 1000M	Casper
KRIC 1420 100	WACO 1420 100 C	KOMO 920 1000R	
Big Spring	Weslaco	KRSC 1120 250	KDFN 1440 500
KBST 1500 100	KRGV 1260 1000 N	KTW 1220 1000	Rock Springs
Brady	Wichita Falls KGKO 570 250 C	KXA 760 250 Spokane	KVRS 1370 100
KNEL 1500 250	UTAH	KFIO 1120 100	Sheridan
Brownsville		KFPY 890 1000 C	KWYO 1370 100
KGFI 1500 100 College Station	Cedar City	KGA 1470 5000 B KHO 590 1000 R	BAHAMAS
WTAW 1120 500	KSUB 1310 100 Logan	Tacoma	Nassau
Corpus Christi	KVNU 1500 100	KMO 1330 1000M	ZNS 540 400
KRIS 1330 500 N	Ogden	KVI 570 1000 C	
Corsicana	KLO 1400 500 B	Walla Walla	CANADA
KAND 1310 100	Price	KUJ 1370 100	
Dallas	KEUB 1420 100 Salt Lake City	Wenatchee KPQ 1500 100M	ALBERTA
KRLD 1040 10000 C	KDYL 1290 1000 R	Yakima	Calgary
WFAA 800 50000 N	KSL 1130 50000 C	KlT 1250 250M	
WRR 1280 500M Denton	KUTA 1500 100		CFAC 930 1000 F CFCN 1030 10000 F
KDNT 1420 100 Dublin	VERMONT	WEST VIRGINIA	CJCJ 690 100 F Edmonton
KFPL 1310 100	Burlington	Bluefield	CFRN 960 100 F
El Paso		WHIS 1410 500	CJCA 730 1000 F
KROD 1500 100	WCAX 1200 100	Charleston	CKUA 580 500 F
KTSM 1310 100 N	Rutland	WCHS 580 500 C	
WDAH 1310 100	WSYB 1500 100	Clarksburg	Grande Prairie
Fort Worth	St. Albans	WBLK 1370 100	CFGP 1200 100
KFJZ 1370 100	WQDM 1390 1000	Fairmont	Lethbridge
KTAT 1240 1000M	Springfield		CJOC 950 100 F
WBAP 800 50000 N	WNBX 1260 500 C	WMMN 890 500 C	
Galveston	Waterbury	Huntington	
KLUF 1370 100 Greenville	WDEV 550 500	WSAZ 1190 1000 Parkersburg	BRIT. COLUMBIA
KGVL 1200 100	VIRGINIA	WPAR 1420 100 C Wheeling	Chilliwack CHWK 780 100 F
Houston	Charlottesville	WWVA 1160 5000 C	Kamloops
KPRC 920 1000 R	WCHV 1420 100		CFJC 880 1000 F
KTRH 1290 1000 C KXYZ 1440 1000 B	Danville WBTM 1370 100	NUCCONCIN	Kelowna
Kilgore KOCA 1210 100	Harrisonburg	WISCONSIN	CKOV 630 100 F Prince Rupert
Laredo	WSVA 550 500	Eau Claire	CFPR 58Ò 50
KPAB 1500 100	Lynchburg	WEAU 1050 1000	Trail
Longview	WLVA 1200 100	Fond du Lac	CJAT 910 1000 F
KFRO 1370 250	Newport News	KFIZ 1420 100	
Lubbock KFYO 1310 100	WGH 1310 100	Green Bay	Vancouver CBR 1100 5000 F
Lufkin	Norfolk	WHBY 1200 100	CJOR 600 500
KRBA 1310 100	WTAR 780 1000 N	WTAQ 1330 1000 C	CKCD 1010 100
Midland	Richmond	Janesville	CKFC 1410 50
KRLH 1420 100	WBBL 1210 100	WCLO 1200 100	CKMO 1410 100
Palestine	WMBG 1350 500 R WRNL 880 500	LaCrosse	CKWX 1010 100 Victoria
Pampa	WRTD 1500 100 B WRVA 1110 5000 C	WKBH 1380 1000 C Madison	CFCT 1450 500
KPDN 1310 100	Roanoke	WHA 940 5000	MANITOBA
Paris	WDBJ 930 1000 C	WIBA 1280 1000 N	
KPLT 1500 250 Pecos	WASHINGTON	Manitowoc	Brandon
KIUN 1420 100	Aberdeen	WOMT 1210 100	CKX 1120 1000 F
Port Arthur		Milwaukee	Flin Flon
KPAC 1260 500	KXRO 1310 100M	WEMP 1310 100	CFAR 1370 100

NORTH	A
Winnipeg CJRC 630 500 F CKY 910 15000 F	c
NEW BRUNSWICK	C
Fredericton CFNB 550 500 F	
Moneton CKCW 1370 100 F	C
St. John CHSJ 1120 500 F	C C
N. W. TERRITORY	C
Aklavik CJCU 1210 50	
NOVA SCOTIA	C
Glace Bay VAS 685 2000	C
Halifax CHNS 930 1000 F	
Sydney CICB 1240 1000 F	C
Wolfville CKIC 1010 50	
Yarmouth CJLS 1310 100	C
ONTARIO	C C
Brantford CKPC 930 100 F Chatham	Ċ,
CFCO 630 100 F	С
Cobalt CKMC 1210 50 Fort William	CI
CKPR 730 100 F	-
Hamilton CHML 1010 100 F CKOC 1120 500 F	
Kenora	C
1420 100 Kingston CFRC 1510 100 F	-
London CFPL 730 100 F	C. Ci
North Bay	C
CFCH 930 100 F CJKL 1310 100 CKGB 1420 100	C.
Ottawa CBO 880 1000 F CKCO 1010 100 F	
CKCO 1010 100 F Owen Sound 1370 100	
Prescott	Ť
St. Catharines CKTB 1200 100 F	
Sault Ste, Marie	CI
Stratford CICS 1210 50	CI
Sudbury CKSO 780 1000 F	
CKCL 580 100 F CRCY 960 100 F	
Waterloo CKCR 1510 100	CN

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Windsor CKLW 1030 5000 F	С
Wingham CKNX 1200 100	C C C C
BRINGE BRUARD	
PRINCE EDWARD ISLAND	C C C C
Charlottetown CFCY 630 1000 F CHCK 1310 50	C
CHCK 1310 50 Summerside	c
CHGS 1450 50 F	
QUEBEC	Ιč
Chicoutimi	
CRCS 1120 100 F	000000000000000000000000000000000000000
Hull CKCH 1210 100 F Montreal	
CBF 910 50000 N	Ιč
CBM 1050 5000 F	C
CFCF 600 500 B CHLP 1120 100 F	
CHLP 1120 100 F CKAC 730 5000 C	18
New Carlisle CHNC 960 1000 F	č c
Quebec 100	Ċ
CHRC 580 100 CKCV 1310 100 F	1 g
CRCK 950 1000 F	CCCCCC
Rimouski CJBR 1030 1000 F	
Sherbrooke CHLT 1210 100	
Three Rivers	C C
CHLN 1420 100	ΙĞ
SASKATCHEWAN	
Moose Jaw	C
CHAB 1200 100 F	č
Prince Albert CKBI 1210 100 F	C
Regina	
CJRM 540 1000 F CKCK 1010 1000 F	
Saskatoon	
CFQC 840 1000 F	C
Yorkton CJGX 1390 100 F	C
COSTA RICA	CI CI CI
San Jose	
TIEP 880 1000 TIPG 625 2000	C
TIX 650 1000	C
CUBA	
Caibarien CMHD 1270 250	C
Camaguey CMJA 1010 300 CMJC 1390 150 CMJE 1220 50 CMJF 1150 200 CMJF 780 250	
CMJA 1010 300 CMJC 1390 150	
CMJE 1220 50	1 0
CMJF 1150 200	
UNIJK /0V 20V	Ιčί
CMJO 1080 200	CI
CMJX 830 500 Cardenas	
CMGE 1370 150	

Cinto	do A	vila
CMJH	1360	50
Ciego CMJH CMJI CMJI CMJO	1130 1180	150
СМЈО	1180	50
Cienf CMHJ CMHM CMHX	uegos	175
CMHM	1450	100
CMHX	1160 1450 760	200
Cruce CMHK		250
Guan CMKS	tanan	
CMKS	960 19	
Havar CMBC CMBD	950	10000
CMBD CMBF CMBL CMBQ CMBS CMBS CMBX CMBZ	1260	500
CMBF	770 750	10000 2500
CMBO	400	5000
CMBS	1170 1070 970	5000 150
CMBX	1070	500 150
CMBZ	1000	500
CMC	1260	150
CMCA	1350	450
CMCD	1350 1230 630	450 150 250
CMBY CMBZ CMC CMCA CMCB CMCD CMCF CMCG CMCJ	810	600
CMCG	680	1000
CMCC CMCJ CMCK CMCL CMCM CMCO CMCO	1110 1030 730 850	500
CMCL	730	10000
CMCM	850	
CMCO	1200	250
CMCR	1410 1380	5000
CMCU	1290	500
CMCW	1140 1380	500 150
CMCR CMCU CMCW CMCX CMCY CMK CMOA	1380	150 5000
CMK	570 720	3000
CMOA	1440 1320	150
CMOX	1320	200 25000
CMW	880	1400
CMOA CMOX CMO CMQ CMW CMX	920	1000
	630	10000
- Holgu CMEK	in 1460	250
Holgu CMFK CMKO	$1460 \\ 1280$	
Manz: CMKM	anillo 1120	200
Matar	izas	200
CMGC	1400	150
CMGC CMGF CMGH	1400 1120 790	250 500
Moron CMJP		
CMJP Pinar	1430 del F	75
CMAB	1340	300
Sagua CMHA	1a Gi 1070	rande 50
Sancti		ltus
CMHB	1240	50
Santa CMHI	Clara 1210 820	150
CMHW	820	100
Santia CMKC	1250	150
CMKC CMKD CMKG CMKR	1050	250
CMKG	1160	
CMKR	1400	100
CMKW CMKX	1350 1190	

DOMINICAN REPUBLIC			
Truji HIT HIX HI7P	1050 800 1300	50 800 25	
-	SALVA		
YSS	Salvado 640	500	
GUA Guat TGW TG1	TEM emala 1520 1305	ALA City 1000	
	NDUR	_	
HKN	cigalpa 1250	50	
M AGUA	EXIC SCALI	O ENTES	
Agua XEBI	scalien 1000	tes 25	
BAJA	CALIF	ORNIA	
Mexia XEAA XEAO	750 660	200 250	
Rosa XERB		each 100000	
Tijua XEAC XEAU	980	1000	
XEAU XEAU XEBG XEC XELO XEMO	1320 820 1150	1000 100	
XELO XEMO XEOK	580 860 760	10000 5000 2500	
CHIHUAHUA			
Chihr XEBU XEFI		50 250	
Juare XEFV XEF	1210 1450 1020	100 100	
XEJ XEP	1020 1160	1000 500	
Parra XEAT	1 1210	250	
	AHUII		
Piedr XEMU XEPN Sabin	580 730 1	ras 250 00000	
Sabin XEBX Saltil	10	250	
XEAS XELA	1160 1240	100 50	
Torre XETB Villa		125	
XEDH XERA	Acuna 1340 840	200 250000	
D, F.			
Gral. XEDA	Anaya 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 XEJW 870 500	XED 1160 2500 Guzman XEBA 1080 20	Cananea XEFQ 1010 50	XEDW 1150 20 Veracruz
XEK 890 100 XEL 1100 250	MICHOACAN	Hermosillo XEBH 930 500	XETF 1220 12 XEU 1010 250
XELZ 1370 100 XEMX 1280 100 XEN 780 1000	Morelia XEI 1370 125	Nogales XEAF 990 750 Obregon	YUCATAN Merida XEFC 550 100
XENC 860 50 XEW 890 50000 XEXM 610 500	NUEVO LEON	XEAP 1340 50	XEME 1240 50 XEZ 630 500
XEXS 1310 100 XEXX 1170 1000	Monterrey XEFB 870 200 XEG 1230 250	TAMAULIPAS	ZACATECAS Zacatecas
XEYO 610 500 Tacuba XEFA 118 0 500	XEH 720 250 XET 600 5000 XEX 1310 125	Matamoros XEAM 750 25	XEAZ 1230 200 MIQUELON
Тексосо XEXE 1270 17	PUEBLA	Nuevo Laredo XEBK 1080 100 XEDF 810 100	St. Plerre FQN 609 250
DURANGO Durango	Puebla XETH 1210 100	XEFE 980 250 XENT 910 150000	NEWFOUNDLAND St. John's VOAC 1065 40
XEBP 1150 250 XEE 1210 50	SAN LUIS POTOSI	Reynosa XEAW 960 100000	VOAS 940 100 VOCM 1006 200
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
XEBÔ 1310 25	AEAN 1250 250	ALG THE LOC	

NORTH AMERICAN B. C. STATIONS BY CALLS

CBF 910 50000	CFNB 550 500	CHSJ 1120 500
Montreal, P. Q.	Fredericton, N. B.	St. John, N. B.
CBL 840 50000	CFPL 730 100 London, Ont.	CHWK 780 100 Chilliwack, B. C.
Toronto, Ont. CBM 1050 5000 Montreal, P. Q.	CFPR 580 50 Prince Rupert, B. C.	CJAT 910 1000 Trail, B. C.
CBO 880 1000	CFQC 840 1000	CJBR 1030 1000
Ottawa, Ont.	Saskatoon, Sask.	Rimouski, P. Q.
CBR 1100 5000	CFRB 690 10000	CJCA 730 1000
Vancouver, B. C.	Toronto, Ont.	Edmonton, Alta.
CFAC 930 1000	CFRC 1510 100	CJCB 1240 1000
Calgary, Alta.	Kingston, Ont.	Sydney, N. S.
CFAR 1370 100	CFRN 960 100	CJCJ 690 100
Flin Flon, Man.	Edmonton, Alta.	Calgary. Alta.
CFCF 600 509	CHAB 1200 100	CJCS 1210 50
Montreal, Que.	Moose Jaw, Sask	Stratford, Ont.
CFCH 930 100	CHCK 1310 50	CJCU 1210 50
North Bay, Ont.	Charlottetown, P.E.L	Aklavik, N. W. T.
CFCN 1030 10000	CHGS 1450 50	CJGX 1390 100
Calgary, Alta.	Summerside, P.E.I.	Yorkton. Sask.
CFCO 630 100	CHLN 1420 100	CJIC 1500 100
Chatham, Ont.	Three Rivers, P. Q.	S. Ste. Marie, Ont.
CFCT 1450 500	CHLP 1120 100	CJKL 1310 100
Victoria, B. C.	Montreal, Que.	North Bay, Ont.
CFCY 630 1000	CHLT 1210 100	CJLS 1310 100
Charlottetown, P.E.I.	Sherbrooke, P. Q.	Yarmouth, N. S.
CFGP 1200 100	CHML 1010 100	CJOC 950 100
Grande Prairie, Alta.	Hamilton, Ont.	Lethbridge, Alta.
CFJC 880 1060	CHNC 960 1000	CJOR 600 500
Kamloops, B. C.	New Carlisle, Que.	Vancouver, B. C.
CFLC 930 100	CHNS 930 1000	CJRC 630 500
Prescott, Ont.	Halifax, N. S.	Winnipeg, Man.
	CHRC 580 100 Quebec, Que.	CJRM 540 1000 Regina, Sask.

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	CKAC 730 5000 Montreal, Que.	CMBY 970 150 Havana, Cuba	CMJH 1360 50
	CKBI 1210 100	CMBZ 1000 500	Ciego de Avila, Cuba CMJI 1130 150
	Prince Albert, Sask. CKCD 1010 100	Havana, Cuba CMC 1260 150	Ciego de Avila, Cuba
	Vancouver, B. C.	Havana, Cuba	CMJK 780 250 Camaguey, Cuba
	CKCH 1210 100 Hull, Que.	CMCA 1350 450 Havana, Cuba	CMJO 1180 50
	CKCK 1010 1000	CMCB 1230 150	Ciego de Avila, Cuba CMJP 1430 75
<u> </u>	_ Regina, Sask. CKCL 580 100	Havana, Cuba CMCD 630 250	Camaguey, Cuba CMJQ 1080 200
ļ	Toronto, Ont.	Havana, Cuba	Camaguey, Cuba
	CKCO 1010 100 Ottawa, Ont.	CMCF 810 600 Havana, Cuba	CMJW 1340 300 Camaguey, Cuba
	CKCR 1510 100	CMCG 680 1000	CMJX 830 500
	Waterloo, Ont. CKCV 1310 100	Havana, Cuba CMCJ 1110 500	Camaguey, Cuba CMK 720 3000
	Quebec, Que. CKCW 1370 100	Havana, Cuba	Havana, Cuba
	Moncton, N. B.	CMCK 1030 5000 Havana, Cuba	CMKC 1250 150 Santiago, Cuba
	CKFC 1410 50 Vancouver, B. C.	CMCL 730 10000 Havana, Cuba	CMKD 1050 250
	CKGB 1420 100	CMCM 850	Santiago, Cuba CMKF 1460 250
	North Bay, Ont. CKIC 1010 50	Havana, Cuba CMCO 1200 250	Holguin, Cuba CMKG 1160
	Wolfville, N. S.	Havana, Cuba	Santiago, Cuba
	CKLW 1030 5000 Windsor, Ont.	CMCQ 1410 5000 Havana, Cuba	Bayamo, Cuba
	CKMC 1210 50	CMCR 1380	CMKM 1120 200
	Cobalt, Ont. CKMO 1410 100	Havana, Cuba CMCU 1290 500	Manzanillo, Cuba CMKO 1280
	Vancouver, B. C. CKNX 1200 100	Havana, Cuba	Holguin, Cuba
	Wingham, Ont.	CMCW 1140 500 Havana, Cuba	CMKR 1400 100 Santiago, Cuba
	Hamilton, Ont.	CMCX 1380 150 Havana, Cuba	CMKS 960 Guantanamo, Cuba
	CKOV 630 100	CMCY 570 5000	CMKW 1350
	Kelowna, B. C. CKPC 930 100	Havana, Cuba CMGC 1400 150	CMKX 1190
	Brantford, Ont.	Matanzas, Cuba	Santiago, Cuba
	CKPR 730 100 Fort William, Ont.	CMGE 1370 150 Cardenas, Cuba	CMOA 1440 150 Havana, Cuba
	CKSO 780 1000	CMGF 1120 250	CMOX 1320 200
	Sudbury, Ont. CKTB 1200 100	Matanzas, Cuba CMGH 790 500	Havana, Cuba CMQ 600 25000
	St. Catharines, Ont. CKUA 580 500	Matanzas, Cuba	Havana, Cuba
	Edmonton, Alta.	CMHA 1070 50 Sagua la Grande, Cuba	CMW 880 1400 Havana, Cuba
	CKWX 1010 100 Vancouver, B. C.	CMHB 1240 50	CMX 920 1000 Havana, Cuba
	CKX 1120 1000	CMHD 1270 250	CRCK 950 1000
•	Brandon, Man. CKY 910 15000	Caibarien, Cuba CMHI 1210 150	Quebec, Que. CRCS 1120 100
	Winnipeg, Man.	Santa Clara, Cuba	Chicoutimi, Que.
	CMAB 1340 300 Pinar del Rio, Cuba	CMHJ 1160 175 Cienfuegos, Cuba	CRCY 960 100 Toronto, Ont.
	CMBC 950 10000 Havana, Cuba	СМНК 1330 250	FQN 609 250
••••	CMBD 1260 500	Cruces, Cuba CMHM 1450 190	St. Pierre, Miquelon HIT 1050 50
	Havana, Cuba CMBF 770 10000	Cienfuegos, Cuba	Trujillo, D. R.
	CMBF 770 10000 Havana, Cuba	Santa Clara, Cuba	HIX 800 800 Trujilo, D. R.
	CMBL 750 2500 Havana, Cuba	CMHX 760 200 Cienfuegos, Cuba	HI7P 1300 25 Trujillo, D. R.
	CMBQ 680 5000	CMJA 1010 300	HRN 1250 50
	Havana, Cuba CMBS 1170 150	Camaguey, Cuba CMJC 1390 150	Tegucigalpa, Honduras KABC 1420 100
	Havana, Cuba	Camaguey, Cuba	San Antonio, Texas
	CMBX 1070 500 Havana, Cuba	CMJE 1220 50 Camaguey, Cuba	KABR 1420 100 Aberdeen, S. Dak.
		CMJF 1150 200	KADA 1200 100
		Camaguey, Cuba	Ada, Okia.

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	KALB 1210 100 Alexandria, La.	KERN 1370 100 Bakersfield, Calif.	KFSG 1120 500 Los Angeles, Calif.
	KALE 1300 1000	KEUB 1420 100	KFUO 550 500 St. Louis, Mo.
	Portland, Ore. KAND 1310 100	Price, Utah	KFVD 1000 1000
	Corsicana, Texas	Portland, Ore.	Los Angeles, Caltf.
	KANS 1210 100 Wichita, Kans	KFAB 770 10000 Lincoln, Neb.	KFVS 1210 100 Cape Girardeau, Mo
	KARK 890 500	KFAC 1300 1000	KFWB 950 1000
	Little Rock, Ark. KARM 1310 100	Los Angeles, Calif. KFAM 1420 100	Hollywood, Calif. KFXD 1200 100
	Fresno, Calif. KASA 1210 100	St. Cloud, Minn. KFBB 1280 1000	Nampa, Idaho KFXJ 1200 100
	Elk City, Okla.	Great Falls, Mont.	Grand Junction, Colo.
	KAST 1370 100 Astoria, Ore.	KFBI 1050 5000 Abilene, Kans.	KFXM 1210 100 San Bernardino, Callf.
	KATE 1420 250 Albert Lea, Minn.	KFBK 1490 5000 Sacramento, Calif.	KFXR 1310 100
	KAWM 1500 100	KFDM 560 500	Oklahoma City, Okla. KFYO 1310 100
	Gallup, N. Mex. KBIX 1500 100	Beaumont, Texas	Lubbock, Texas KFYR 550 1000
	Muskogee, Okla.	Brookings, S. D.	KFYR 550 1000 Bismarck, N. D.
	KBPS 1420 100 Portland, Ore.	KFEL 920 500 Denver, Colo.	KGA 1470 5000 Spokane, Wash.
	KBST 1500 100	KFEQ 680 2500	KGAR 1370 100
-	Big Spring, Texas KBTM 1200 100	St. Joseph, Mo. KFGQ 1370 100	Tucson, Ariz. KGB 1330 1000
	Jonesboro, Ark.	Boone, Iowa	San Diego, Calif.
	KCKN 1310 100 Kansas City, Kans.	KFH 1300 1000 Wichita, Kans.	KGBU 900 500 Ketchikan Alaska
	KCMC 1420 100	KFI 640 50000	KGBX 1230 50
	KCMO 1370 100	Los Angeles, Calif.	Springfield, Mo. KGCA 1270 10
	Kansas City, Mo.	Spokane, Wash.	Decorah, lowa
	KCRC 1360 250 Enid, Okla.	KF1Z 1420 100 Fond du Lac, Wis.	KGCI 1200 100 Coeur d'Alene, Idaho
	KCRJ 1310 100 Jerome, Ariz.	KFJB 1200 100 Marshalltown, Iowa	KGCU 1240 250 Mandan, N. D.
	KDAL 1500 100	KFJI 1210 100	KGCX 1450 100
	Duluth, Minn. KDB 1500 100	Klamath Falls, Ore.	Wolf Point, Mont. KGDE 1200 100
	Santa Barbara, Calif. KDFN 1440 590	Grand Forks, N. D.	Fergus Falls, Minn.
	Casper, Wyo.	KFJZ 1370 100 Fort Worth, Texas	KGDM 1100 100 Stockton, Calif.
	KDKA 980 50000 Pittsburgh, Pa.	KFKA 880 500 Greeley, Colo.	KGDY 1340 25 Huron, S. D.
	KDLR 1210 100	KFKU 1220 1000	KGEK 1200 10
_	Devils Lake, N. D. KDNC 1200 100	Lawrence, Kans.	KGER 1360 100
	Lewistown, Mont.	Shenandoah, Iowa	Long Beach, Calif.
	Denton, Texas	KFOR 1210 100 Lincoln, Neb.	KGEZ 1310 10 Kalispell, Mont.
	KDON 1210 100	KFOX 1250 1000	KGFF 1420 10
	Monterey, Calif. KDTH 1340 500	Long Beach, Callf.	KGFI 1500 10
	Dubuque, Iowa	Dublin, Texas	Brownsville, Tex.
	KDYL 1290 1000 Salt Lake City, Utah	KFPW 1210 100 Fort Smith, Ark.	KGFJ 1200 10 Los Angeles, Calif.
	KECA 1430 1000 Los Angeles, Calif.	KFPY 890 1000 Spokane, Wash.	KGFL 1370 10 Roswell, N. M.
	KEEN 1370 100	KFQD 780 250	KGFW 1310 10
_	Seattle, Wash. KEHE 780 1000	Anchorage, Alaska KFRC 610 1000	Kearney, Neb. KGFX 630 20
	Los Angeles, Calif.	San Francisco, Calif.	Pierre, S. D.
	KELA 1440 500 Centralia, Wash.	KFRO 1370 250 Longview, Texas	KGGC 1420 10 San Francisco, Calif.
	KELD 1370 100	KFRU 630 500	KGGF 1010 100
	El Dorado, Ark. KELO 1200 100	Columbia, Mo. KFSD 600 1000	Coffeyville, Kans. KGGM 1230 100
	Sioux Falls, S. Dak.	San Diego, Calif.	Albuquerque, N. M.

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	KGHF 1320	500
	Pueblo, Colo. KGHI 1200	100
	Little Rock, Ark. KGHL 780	1000
_	Billings, Mont.	
	KGIR 1340 Butte, Mont.	1000
	KGIW 1420	100
	Alamosa, Colo. KGKB 1500	100
	Tyler, Texas	100
	KGKL 1370 San Angelo, Texas	3
	KGKO 570 Wichita Falls, Tex	250
	KGKY 1500	100
_	Scottsbiuff, Neb. KGLO 1210	100
_	Mason City, Iowa KGMB 1320	1000
	Honolulu, T. H.	
	KGNC 1410 Amarillo, Texas	1000
	KGNF 1430	1000
	North Platte, Neb KGNO 1340	250
	Dodge City, Kans KGO 790	7500
	San Francisco, Ca	,lif,
	KGU 750 Honolulu, T. H.	2500
	KGVL 1200	100
_	Greenville, Texas KGVO 1260	1000
	Missoula, Mont. KGW 620	1000
	Portland, Ore.	
	KGY 1210 Olympia, Wash.	100
	KHBC 1400 Hilo, T. H.	250
	KHBG 1210	100
	Okmulgee, Okia. KHJ 900	1000
_	Los Angeles, Calif	
	KHQ 590 Spokane, Wash	1000
	KHSL 1260 Chico, Calif.	250
	KHUB 1310	250
	Watsonville, Calif KICA 1370	100
	Clovis, N. M. KID 1320	500
	Idaho Fails, Idah	10
	KIDO 1350 Boise, Idaho	1000
	KIDW 1420 Lamar, Colo.	100
	KIEM 1450	500
	Eureka, Calif. KIEV 850	250
	Giendale, Calif.	100
	KINY 1310 Juneau, Alaska	
	KIRO 710 Seattle, Wash.	1000
	KIT 1250	250
	Yakima, Wash.	

	KIUL	1210	100
		lity, Kane	5 .
	KIUN	1420	100
	Pecos, T	exas	
	KIUP	1370 Colo	100
	Durango, KJBS	1070	500
	San Fran	icisco, Cal	
	KJR	970	5000
	Seattle,		
	KLAH Carlsbad	1210 N. Mex.	100
	KLBM	1420	100
	La Gran	de, Ore.	200
	KLCN	1290	100
-	Blythevil	le, Ark.	
	NLO Orden I	1400 Iteh	500
	KLO Ogden, U KLPM Minot, N	1240	250
	Minot, N	I. D.	
	KLRA	1390	1000
	Little Ro	ock, Ark.	
	KLS Oakland,	1280 Calif	250
_	KLUF	1370	100
	Galvesto		
	KLX	880	1000
	Oakland, KLZ	Calif. 560	1000
	Denver.		1000
	KMA	930	1000
		oah, lowa	
	KMAC	1370	100
	KMBC	onio, Texa 950	1000
	Kansas (Dity, Mo.	
	KMED	1410	250
	Medford. KMJ	, Ore. 580	1000
	Fresno.	Calif.	1000
	KMLB	1200	100
	Monroe,		
	KMMJ	740 nter, Neb	1000
	кмо	1330	1000
	Tacoma, KMOX	Wash.	
			50000
	St. Louis KMPC	710	500
	Beverly	Hills, Cali	t.
	KMTR		. 1000
	KNEL	eles, Cali	250
	Brady, 7	rexas	
	Brady, 'I KNET	1420	100
ļ	Palestine		
	KNOW Austin, '	1500 Texas	100
	KNX	1050	50000
	Los Ang	eles, Calif	
	KOA	830 Colo	50000
	Denver.	550	1000
	Corvallis	, Ore.	
	KOAM	790	1000
	Pittsbur KOB	g, Kans. 1180	10000
	Albuque		
	ковн	1370	100
	Rapid C	ity, S. Da	к.
L	-		

	KOCA 12	100
-	Kilgore, Tex KOH 13	
	Reno, Nev.	
	KOIL 12 Omaha, Neb	
1	KOIN 94	10 1000
	Portland, Or KOKO 13	70 100
	La Junta, C KOL 12	olo. 70 1000
_	Seattle, Was KOMA 14	h. 1000
	KOMA 14	80 5000
	Oklahoma C KOMO 9	20 1000
_	Seattle, Was KONO 13	h. 70 100
_	San Antonio	Texas
	KOOS 12 Marshfield,	00 100
	KORE 14	20 100
-	Eugene, Ore KOTN 15	00 10 0
	Pine Bluff, J	Ark.
	KOVC 15 Valley City,	00 100 N. Dak.
	KOY 13	
	Phoenix, Ari KPAB 15	100
_	KPAB 15 Laredo, Tex KPAC 12	as 100
	KPAC 12 Port Arthur	60 300
	KPDN 13	10 100
_	Pampa, Tex KPFA 12	
	Helena, Mor	it.
	KPLC 15 Lake Charle	
	KPLT 15	00 100
-	Paris, Texas KPMC 15	
_	Bakersfield.	
	KPO 6 San Francisc	80 50000 co, Calif.
	KPOF 8	80 1000
-	Denver, Col KPPC 12	o. 10 100
_	Pasadena, C	alif.
	KPQ 15 Wenatchee, KPRC 9	
	KPRC 9	20 1000 xas
-	KQV 13	80 500
_	Pittsburgh, KQW 10	Pa. 10 1000
	San Jose, Ca	
	KRBA 13 Lufkin, Tex	10 100
	KRBC 14	20 100
	Abilene, Ter KRE 13	cas 70 100
	Berkeley, Ca	alif.
	KRGV 12	60 1000
-	Weslaco, Te KRIC 14	
_	Beaumont, ' KRIS 13	Γexas 30 500
	Corpus Chri	sti, Tex.
	KRKD 11 Los Angeles	20 500 Calif
-	105 Augeles	, Cant.
	1	

	KRKO 1370 50	KTHS Hot Spriv	1060 10000 ngs, Ark.		KWK 1350 St. Louis, Mo.	1000
	Everett, Wash. KRLC 1390 250	кткс	1190 250		KWKH 1100	10000
	Lewiston, Idaho	Visalia, (Shreveport, La. KWLC 1270	100
1	KRLD 1040 10000 Dallas, Texas	KTMS Santa Ba	1220 500 rbara, Callf.		Decorah, Iowa	100
	KRLH 1420 100	КТОК	1370 100		KWLK 780	250
	Midland, Texas		a City, Okla.		Longview, Wash.	250
	KRMC 1370 100 Jamestown, N. Dak.	KTRB Modesto	740 250 Calif.		KWNO 1200 Winona, Minn.	230
	KRMD 1310 100	KTRH	1290 1000		KWOC 1310	100
	Shreveport, La.	Houston, KTRI	Texas 1420 100		Poplar Bluff, Mo. KWOS 1310	100
	KRNR 1500 100 Roseburg, Ore.	Sioux Ci			Jefferson City, M	
	KRNT 1320 1000	KTSA	550 1000		KWSC 1220	1000
	Des Moines, Iowa	San Ant	onio, Texas 1310 100		Pullman, Wash. KWTN 1210	100
	KROC 1310 100 Rochester, Minn.	El Paso,			Watertown, S. Dal	
	KROD 1500 100	KTUL	1400 500		KWTO 560	5000
1	El Paso, Texas KROW 930 1000	Tulsa, O KTW	1220 1000		Springfield, Mo. KWYO 1370	100
	Oakland, Calif.	Seattle,	Wash.		Sheridan, Wyo.	
3	KROY 1210 100	KUJ	1370 100 alla, Wash.		KXA 760 Seattle, Wash.	250
	Sacramento, Calif KRQA 1310 100	KUMA	1420 100		KXBY 1530	1000
	Santa Fe, N. Mex.	Yuma, A	Ariz.		Kansas City, Mo.	
	KRRV 1310 250	KUOA Silosm S	1260 5000 prings, Ark.		KXL 1420 Portland, Ore.	100
	Sherman, Texas KRSC 1120 250	KUSD	890 500		KXO 1500	100
	Seattle, Wash.		n, S. Dak. 1500 100		El Centro, Calif.	
	KSAC 580 500 Manhattan, Kans.	KUTA Salt Lak	1500 100 e City, Utah		KXOK 1250 St. Louis, Mo.	1000
	KSAL 1500 100	KVCV	1200 100		KXRO 1310	100
	Salina, Kans.	Redding			Aberdeen, Wash. KXYZ 1440	1000
	KSCJ 1330 1000 Sioux City, Iowa	KVEC San Luis	1200 250 s Obispo, Cal.		KXYZ 1440 Houston, Texas	1000
	KSD 550 1000	KVGB	1370 100		KYA 1230	1000
	St. Louis, Mo. KSEL 900 250	Great B	end, Kans. 570 1000		San Francisco, Ca KYOS' 1040	1111. 250
	KSEI 900 250 Pocatello, Idaho	Tacoma			Merced, Calif.	100
	KSFO 560 1000	KVNU	1500 100		KYSM 1500	100
	San Francisco, Calif. KSL 1130 50000	Logan, KVOA	1260 1000		Mankato, Minn. KYW 1020	10000
	Salt Lake City, Utah	Tucson.			Philadelphia, Pa.	
	KSLM 1370 100 Salem, Ore.	KVOD Denver,	920 500 Colo.		TGW 1520 Guatemala City,	1000 Gust.
	KSO 1430 500	KVOE	1500 100		TG1 1305	
	Des Moines, Iowa		na, Callf.		Guatemala City.	Guat. 1000
	KSOO 1110 2500 Sioux Falls, S. Dak.	KVOL Lafayet	1310 100 te La		TIEP 880 San Jose, Costa F	
	KSRO 1310 250	KV00	1140 25000		TIPG 625	2000
	Santa Rosa, Calif.	Tulsa, KVOR	Okla. 1270 1000		San Jose, Costa I TIX 650	tica 1000
	KSTP 1460 10000 St. Paul, Minn.		lo Springs, Colo.	.	San Jose, Costa	
	KSUB 1310 108	KVOS	1200 100		VAS 685	2000
	Cedar City, Utah	KVOX	am, Wash. 1310 100		Glace Bay, N.S. VOAC 1065	40
	KSUN 1200 100 Lowell, Ariz.	Moorhe	ad, Minn.		St. John's, Nfld.	
	KTAR 620 1000	KVRS	1370 100		VOAS 940 St. John's, Nfld.	100
	Phoenix, Ariz. KTAT 1240 1000	KVS0	prings, Wyo. 1210 100		VOCM 1006	200
	Fort Worth Texas	Ardmon	e, Okla.		St. John's, Nfld.	400
	KTBC 1120 1000 Austin, Texas		1420 100 nson, Kans.	J =	VOGY 840 St. John's, Nild.	400
	KTBS 1450 1000	KWEW	1500 100	0	VONF 1195	500
	Shreveport, La.		N. Mex.	1	St. John's, Nfld.	500
	KTEM 1370 250 Temple, Texas	KWG Stock to	1200 100 on, Calif.		VOWR 681 St. John's, Nfld.	50
	KTFI 1240 1000	KW11	1040 50	0	WAAB 1410	50
			id, Ore.		Boston, Mass.	

	WAAF 920 1000 Chicago, Ill.		WBBZ 1200 Ponca City, Okla.	100		WCBD 1080 Chicago, Ill.	500
	WAAT 940 500		WBCM 1410	500		WCBM 1370	10
	Jersey City, N. J. WAAW 660 500		Bay City, Mich. WBEN 900	1000	-	Baltimore, Md. WCBS 1420	10
_	Omaha, Neb.		Buffalo, N. Y.			Springfield, Ill.	
	WABC 860 50000 New York, N. Y.		WBEO 1310 Marquette, Mich.	100		WCCO 810 Minneapolis, Min	5000 n.
	WABI 1290 100 Bangor, Maine		WBHP 1200 Huntsville, Als.	100		WCFL 970	500
	WABY 1370 100		WBIG 1440	1000		Chicago, Ill. WCHS 580	50
	Albany, N. Y. WACO 1420 100		Greensboro, N. C. WBIL 1100	5000		Charleston, W. V WCHV 1420	a. 10
	Waco, Texas		New York, N. Y.			Charlottesville, V	a.
	WADC 1320 1000 Akron, Ohio		WBLK 1370 Clarksburg, W. Vi	100 5.		WCKY 1490 Covington, Ky.	1000
	WAGA 1450 500		WBLY 1210	100		WCLE 610	50
	Atlanta, Ga. WAGF 1370 250		Lima, Ohio WBNO 1200	100		Cleveland, Ohio WCLO 1200	10
	Dothan, Ala. WAGM 1420 100		New Orleans, La. WBNS 1430	500		Janesville, Wis.	
	Presque Isle, Me.		Columbus, Ohio	500		WCLS 1310 Joliet, Ill.	10
	WAIM 1200 100 Anderson, S. C.		WBNX 1350 New York, N. Y	1000		WCMI 1310 Ashland, Ky.	10
	WAIR 1250 250		WBNY 1370	100	-	WCNW 1500	10
	Winston-Salem, N. C. WALA 1380 500		Buttalo, N. Y. WBOQ 860	50000		Brooklyn, N. Y. WCOA 1340	50
	Mobile, Ala.		New York, N. Y.			Pensacola, Fla.	
	WALR1210100Zanesville, Obio	_	WBOW 1310 Terre Haute, Ind.	100		WCOC 880 Meridian, Miss.	50
	WAML 1310 100 Laurel, Miss.		WBRB 1210	100	a (j	WCOL 1210	10
	WAPI 1140 5000	2	Red Bank, N. J. WBRC 930	1000		Columbus, Ohio WCOP 1120	50
	Birmingham, Ala. WAPO 1420 100	1000	Birmingham, Ala.		-	Boston, Mass. WCPO 1200	
	Chattanooga, Tenn.		WBRE 1310 Wilkes-Barre, Pa.	100		Cincinnati, Ohio	10
	WARD 1400 500 Brooklyn, N. Y.		WBRK 1310	100	6 J.	WCRW 1210	10
	WASH. 1270 500		Pittsfield, Mass. WBRY 1530	1000	-	Chicago, Ill. WCSC 1360	50
	Grand Rapids, Mich. WATL 1370 100		Waterbury, Conn. WBT 1080	50000		Charleston, S. C. WCSH 940	100
	Atlanta, Ga.		Charlotte, N. C.			Portland, Me.	
	WATR 1190 100 Waterbury, Conn.		WBTM 1370 Danville, Va.	100		WDAE 1220 Tampa, Fia.	100
	WAVE 940 1000 Louisville, Ky.		WBZ 990	50000		WDAF 610	100
	WAWZ 1350 500		Boston, Mass. WBZA 990	1000		Kansas City, Mo. WDAH 1310	10
	Zarephath, N. J. WAYX 1200 100		Springfield, Mass. WCAD 1220			El Paso, Texas	
	Waycross, Ga.		WCAD 1220 Canton, N. Y.	500		WDAS 1370 Philadelphia, Pa.	10
	Hazleton, Pa.		WCAE 1220 Pittsburgh, Pa.	1000		WDAY 940 Fargo, N. Dak.	100
	WBAA 890 500 West Lafayette, Ind.		WCAL 1250	1000		WDBJ 930	100
	WBAL 760 2500		Northfield, Minn. WCAM 1280	500		Roanoke, Va. WDBO 580	100
	Baltimore, Md. ' WBAL 1060 10000		Camden, N. J.			Orlando, Fla.	
	Baltimore, Md.		WCAO 600 Baltimore, Md.	500		WDEL 1120 Wilmington, Del.	25
	WBAP 800 50000 Fort Worth, Texas		WCAP 1280 Asbury Park, N. J.	500		WDEV 550	50
	WBAX 1210 100		WCAT 1200	100		Waterbury, Vt. WDGY 1180	100
	Wilkes-Barre, Pa. WBBC 1400 500		Rapid City, S. Dal WCAU 1170	50000		Minneapolis, Minn WDNC 1500	
	Brooklyn, N. Y.		Philadelphia, Pa.			Durham, N. C.	10
	WBBL 1210 100 Richmond, Va.		WCAX 1200 Burlington, Vt.	100		WDOD 1280 Chattanooga, Ten	1000 n.
	WBBM 770 50000 Chicago, Ill.		WCAZ 1070	100		WDRC 1330	1000
	WBBR 1300 1000		Carthage, Ill. WCBA 1440	500		Hartford, Conn. WDSM 1200	100
	Brooklyn, N. Y.		Allentown, Pa.			Superior, Wis.	

<u></u>	WDSU 1250 1000 New Orleans, La.	WFIL 560 1000 WHB 860 Philadelphia, Pa. Kansas City, Mo.	1000
	WDWS 1370 100	WFLA 620 1000 WHBB 1500	100
	Champaign, Ill. WDZ 1020 250	Tampa, Fla. Selma, Ala. WFMD 900 500 WHBC 1200	100
	Tuscola, Ill.	Frederick, Md. Canton, Ohio	
	WEAF 660 50000 New York, N. Y.	WFOR 1370 100 WHBF 1210 Hattiesburg, Miss. Rock Island, 111.	100
	WEAN 780 1000	WFOY 1210 100 WHBI 1250 St. Augustine Fla	1000
	Providence, R. I. WEAU 1050 1000	St. Augustine, Fla Newark, N. J. WFTC 1200 100 WHBL 1300	250
	Eau Claire, Wis.	Kinston, N. C Sheboygan, Wis,	
	WEBC 1290 1000 Duluth, Minn.	WGAL 1500 100 WHBQ 1370 Lancaster, Pa. Memphis, Tenn.	100
	WEBQ 1210 100	WGAN 640 500 WHBU 1210 Portland, Me. Anderson, Ind.	100
	Harrisburg, Ill. WEBR 1310 100	WGAR 1450 500 WHBY 1200	100
	Buffalo, N. Y.	Cleveland, Ohio Green Bay, Wis. WGAU 1310 100 WHDF 1370	100
	WEDC 1210 100 Chicago, Ill.	Athens, Ga. Calumet, Mich.	
	WEED 1420 100	WGBB 1210 100 WHDH 830 Freeport, N. Y. Boston, Mass.	1000
	Rocky Mount, N. C. WEEI 590 1000	WGBF 630 500 WHDL 1400	250
	Boston, Mass. WEEU 830 1000	Evansville, Ind. Olean, N. Y. WGBI 880 500 WHEB 740	250
	Reading, Pa.	Scranton, Pa. Portsmouth, N. H.	
	WELI 900 500 New Haven, Conn.	WGCM1210100WHEC1430Gulfport, Miss.Rochester, N. Y.	500
	WELL 1420 100	WGES 1360 500 WHEF 1500	100
	Battle Creek, Mich. WEMP 1310 100	Chicago, Ill. WGH 1310 100 WHFC 1420	100
	Milwaukee, Wis.	Newport News, Va. Cicero, Ill.	
	WENR 870 50000 Chicago, Ill.	WG1L 1500 250 WHIO 1260 Galesburg, Ill. Dayton, Ohio	1000
	WEOA 1370 100	WGL 1370 100 WHIP 1480	5000
	Evansville, Ind. WESG 850 1000	Fort Wayne, Ind. WGN 720 50000 Hammond, Ind. WHIS 1410	500
	Elmira, N. Y.	Chicago, Ill. Biuefield, W. Va.	250
	WEST 1200 100 Easton, Pa.	WGNY 1210 100 WHJB 620 Newburgh, N. Y. Greensburg, Pa.	230
	WEVD 1300 1000	WGPC 1420 100 WHK 1390 Albany, Ga. Cleveland, Ohio	1000
	New York, N. Y. WEW 760 1000	WGR 550 1000 WHKC 640	500
	St. Louis, Mo.	Buffalo, N. Y. Columbus, Obio WGRC 1370 250 WHLB 1370	100
	WEXL 1310 50 Royal Oak, Mich.	New Atbany, Ind. Virginia, Minn.	
	WFAA 800 50000 Dallas, Texas	WGRM 1210 100 WHN 1010 Grenada, Miss. New York, N. Y. New York, N. Y. New York, N. Y.	1000
	WFAB 1300 1000	WGST 890 1000 WHO 1000	50000
	New York, N. Y. WFAM 1200 100	Atlanta, Ga. Des Moines, Iowa WGTM 1310 100 WHOM 1450	250
	South Bend, Ind.	Wilson, N. C. Jersey City, N. J.	
	WFAS 1210 100 White Plains, N. Y.	WGVA 1050 1000 WHP 1430 Indianapolis, Ind. Harrisburg, Pa.	500
	WFBC 1300 1000	WGY 790 50000 WIBA 1280	1000
	Greenville, S. C. WFBG 1310 100	Schenectady, N. Y. Madison, Wis. WHA 940 5000 WIBG 970	100
	Altoona, Pa.	Madison, Wis. Glenside, Pa.	100
	WFBL 1360 1000 Syracuse, N. Y.	WHAI 1210 250 WIBM 1370 Greenfield, Mass. Jackson, Mich.	100
	WFBM 1230 1000	WHAL 950 500 WIBU 1210 Saginaw, Mich. Poynette, Wis.	100
	Indianapolis, Ind. WFBR 1270 500	WHAM 1150 50000 WIBW 580	1000
	Baltimore, Md.	Rochester, N. Y. Topeka, Kans. WHAS 820 50000 WIBX 1200	100
	WFDF 1310 100 Flint, Mich.	Louisville, Ky. Utica, N Y.	
	WFEA 1340 500	WHAT1310100WICA940Philadelphia, Pa.Ashtabula, Ohlo	250
	Manchester, N. H.	WHAZ 1300 1000	
	4 4	Troy, N. Y.	

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 WICC 600 Bridgeport, Conn.	500		WKAQ 1240 1000 San Juan, P. R.		WMAS 1420 Springfield, Mass.	10
WIL 1200 St. Louis, Mo,	100		WKAR 850 1000 East Lansing, Mich.		WMAZ 1180 Macon, Ga.	100
 WILL 580	1000		WKAT 1500 100		WMBC 1429	10
 Urbana, Ill. WILM 1420	100	-	Miami Beach, Fla. WKBB 1500 100		Detroit, Mich. WMBD 1440	100
Wilmington, Del. WIND 560	1000	L	East Dubuque, Ill.		Peoria, Ill. WMBF 610	100
Gary, Ind.			WKBH 1380 1000 LaCrosse, Wis.		Miami, Fla.	
WINS 1180 New York, N. Y.	1000		WKBN 570 500 Youngstown, Ohio		WMBG 1350 Richmond, Va.	50
 WIOD 610	1000		WKBO 1200 100		WMBH 1420	10
 Miami, Fla, WIP 610	1000		Harrisburg, Pa. WKBV 1500 100		Joplin, Mo. WMBI 1080	500
 Philadelphia, Pa. WIRE 1400	1000	50 m m	Richmond, Ind. WKBW 1480 5000		Chicago, Ill. WMBO 1310	10
Indianapolis, Ind.			Buffalo, N. Y.		Auburn, N. Y.	
WIS 560 Columbia, S. C.	1000		WKBZ 1500 100 Muskegon, Mich.		WMBQ 1500 Brooklyn, N. Y.	10
WISN 1120	250		WKEU 1500 100		WMBR 1370	10
 Milwaukee, Wis. WJAC 1310	100		Griffin, Ga. WKOK 1210 100		Jacksonville, Fla. WMBS 1420	25
 Johnstown, Pa. WJAG 1060	1000		Sunbury, Pa. WKRC 550 1000		Uniontown, Pa. WMC 780	100
 Norfolk, Neb.			Cincinnati, Ohio		Memphis, Tenn.	
WJAR 890 Providence, R, I.	1000		WKY 900 1000 Oklahoma City, Okla.		WMCA 570 New York, N. Y.	100
WJAS 1290 Pittsburgh, Pa.	1000		WKZO 590 1000 Kalamazoo, Mich.		WMEX 1500 Boston, Mass.	10
 WJAX 900	1000		WLAC 1470 5000		WMFD 1370	10
Jacksonville, Fla. WJBC 1200	100		Nashville, Tenn. WLAK 1310 100		Wilmington, N. C. WMFF 1310	10
 Bloomington, Ill.	100		Lakeland, Fla.		Plattsburg, N. Y.	
WJBK 1500 Detroit, Mich,	100		WLAP 1420 100 Lexington, Ky.		WMFG 1210 Hibbing, Minn.	10
WJBL 1200 Decatur, Ill.	100		WLAW 680 1000 Lawrence, Mass.		WMFJ 1420 Daytona Beach, Fl	1(a
WJBO 1120	500		WLB 1250 1000		WMFO 1370	1
Baton Rouge, La. WJBW 1200	100		Minneapolis, Minn. WLBC 1310 100		Decatur, Ala. WMFR 1200	10
 New Orleans, La.	100		Muncie, Ind. WLBL 900 5000		High Point, N. C. WMIN 1370	1(
 Gadsden, Ala.			Stevens Point, Wis.		St. Paul, Minn.	10
WJDX 1270 Jackson, Miss.	1000		WLBZ 620 500 Bangor, Me.		WMMN 890 Fairmont, W. Va.	5
 WJEJ 1210	50		WLEU 1420 100		WMPC 1200	10
Hagerstown, Md. WJIM 1210	100	<u> </u>	Erie, Pa. WLLH 1370 100		Lapeer, Mich. WMPS 1430	5
 Lansing, Mich.	20000		Lawrence, Mass. WLLH 1370 100		Memphis, Tenn. WMSD 1420	10
 Chicago, Ill.			Lowell, Mass.		Sheffield, Ala.	
WJMS 1420 Ironwood, Mich.	100		WLMU 1210 100 Middlesboro, Ky		WMT 600 Cedar Rapids, Iow	10 7a
WJNO 1200 W. Palm Beach, Fla	100		WLNH 1310 100 Laconia, N. H.		WNAC 1230 Boston, Mass.	10
WJR 750	50000		WLS 870 50000		WNAD 1010	10
 Detroit, Mich. WJRD 1200	250	-	Chicago, Ill. WLTH 1400 500		Norman, Okla. WNAX 570	10
 Tuscaloosa, Ala.	10000		Brooklyn, N. Y. WLVA 1200 100		Yankton, S. D.	
Washington, D. C.			Lynchburg, Va.		WNBC 1380 New Britain, Conr	2: ว.
Jamestown, N. Y.	100		WLW 700 500000 Cincinnati, Ohio		WNBF 1500 Binghamton, N. Y	10
 WJW 1210	100		WMAL 630 250		WNBH 1310	1
Akron, Ohio WJZ 760	50000		Washington, D. C. WMAQ 670 50000		New Bedford, Mas WNBX 1260	is. 5(
 New York, N. Y.			Chicago, Ill.		Springfield, Vt.	

Sau	NBZ 1290 ranac Lake, N. N	100	Raleigh, N. C.	1000	WSFA 1410 50 Montgomery, Ala.
w	NEL 1290	1000	WQAM 560 Mlami, Fla.	1000	WSGN 1310 10 Birmingham, Ala.
W	n Juan, P. R. NEW 1250	1000	WQAN 880	500	WSIX 1210 10 Nashville, Tenn.
	w York, N. Y. NLC 1500	100	Scranton, Pa. WQBC 1360	1000	WSJS 1310 10
Ne	w London, Con	n	Vicksburg, Miss. WQDM 1390	1000	Winston-Salem, N. C. WSM 650 5000
	NNY 1420 atertown, N. Y.		St. Albans, Vt.		Nashville, Tenn.
	NOX 1010 loxville, Tenn.	1000	WQXR 1550 New York, N. Y.	1000	WSMB 1320 100 New Orleans, La.
w	NYC 810	1000	WRAK 1370	100	WSMK 1380 20 Dayton, Ohio
	w York, N. Y. DAI 1190	50000	Williamsport, Pa. WRAW 1310	100	WSNJ 1210 10
Sa	n Antonio, Texa DC 1370	s 100	Reading, Pa. WRAX 920	1000	Bridgeton, N. J. WSOC 1210 10
Dr	venport, Iowa		Philadelphia, Pa.		Charlotte, N. C.
W AT	ol 640 nes, Iowa	5000	WRBL 1200 Columbus, Ga.	100	Spartanburg, 'S. C.
w	OKO 1430	500	WRC 950 Washington, D.	1000	WSPD 1340 100 Toledo, Ohio
w	bany, N. Y. OL 1310	1000	WRDO 1370	100	WSPR 1140 50
	ashington, D. C OLS 1200	100	Augusta, Me. WRDW 1500	100	Springfield, Mass. WSUI 880 56
FI	orence, S. C.		Augusta, Ga.		Iowa City, Iowa WSUN 620 100
	omi 1500 vensboro, Ky.	100	WREC 600 Memphis, Tenn	1000	St. Petersburg, Fla.
	omt 1210 anitowoc, Wis.	100	WREN 1220 Lawrence, Kans.	1000	WSVA 550 5 Harrisonburg, Va.
w	OOD 1270	500	WRGA 1500	100	WSVS 1370 Buffalo, N. Y.
	rand Rapids, Mi OPI 1500	100	Rome, Ga. WRJN 1370	100	WSYB 1500 1
Bi	istol. Tenn.	50000	Racine, Wis. WRNL 880	500	Rutland, Vt. WSYR 570 10
	OR 710 ewark, N. J.		Richmond, Va.		Syracuse, N. Y. WTAD 900 10
	ORC 1280 orcester, Mass.	500	WROK 1410 Rockford, III.	500	Quincy, Ill.
w	ORK 1320	1000	WROL 1310	100	WTAG 580 10 Worcester, Mass.
	ork, Pa. ORL 920	500	Knoxville, Tenn. WRR 1280	500	WTAL 1310 1
	oston, Mass. OSU 570	750	Dallas, Texas WRTD 1500	100	Tallahassee, Fla. WTAM 1070 500
C	olumbus, Ohio		Richmond, Va. WRUF 830	5000	Cleveland, Ohio WTAQ 1330 10
	ov 1130 ew York, N. Y.	1000	Gainesville, Fla.		Green Bay, Wis.
	ow 590 maha, Neb.	1000	WRVA 1110 Richmond, Va.	5000	WTAR 780 10 Norfolk, Va.
W	OWO 1160	10000	WSAI 1330	1000	College Station, Tex.
	ort Wayne, Ind. PAD 1420	100	Cincinnati, Ohio WSAJ 1310	100	WTAX 1210 1
	aducah, Ky. PAR 1420	100	Grove City, Pa. WSAL 1200	250	Springfield, Itl. WTBO 800 2
P	arkersburg, W.	Va.	Salisbury, Md.		Cumberland, Md. WTCN 1250 10
	PAX 1210 homasville, Ga.	100	MSAN 1440 Allentown, Pa.	500	Minneapolis, Minn.
w	PAY 1370 ortsmouth, Ohio	100	WSAR 1450 Fall River, Mass	1000	WTEL 1310 1 Philadelphia, Pa.
	PEN 920	1000	WSAU 1370	100	WTHT 1200 1 Hartford, Conn.
	hiladelphia, Pa. /PG 1100	5000	Wausau, Wis. WSAY 1210	100	WTIC 1040 500
A	tlantic City, N.	J.	Rochester, N. Y	1000	Hartford, Conn. WTJS 1310
	PRA 1370 layaguez, P. R.		WSAZ 1190 Huntington, W.	Va.	Jackson, Tenn.
V	PRO 630 rovidence, R. I.	508	WSB 740 Atlanta, Ga.	50000	WTMJ 620 10 Milwaukee, Wis.
- V	PRP 1420	100	WSBC 1210	100	East St. Louis, Ill.
P	once, P. R.		Chicago, Ill. WSBT 1360	500	rast St. Louis, Ill.
			South Bend, Inc	1.	

	WTNJ 1280 500 Trenton, N. J.	XEBL 1220 50 Mazatlan, Sin.	XEL 1100 25 Mexico City, D. F.
	WTOC 1260 1000 Savannah, Ga.	XEBO 1310 25 Irapuato, Guan.	XELA 1240 Saltillo, Coah.
	WTOL 1200 100 Toledo, Ohio	XEBP 1150 250	XELO 580 100
	WTRC 1310 100	Durango, Dgo. XEBS 1340 200	Tijuana, B. Cfa. XELZ 1370 1
	Elkhart, Ind. WVFW 1400 500	Mexico City, D. F. XEBU 1200 50	Mexico City, D.F. XEMO 860 500
-	Brooklyn, N. Y. WWAE 1200 100	Chihuahua, Chih. XEBX 640 250	Tijuana, L. C.
	Hammond, Ind.	Sabinas, Coah.	Piedras Negras, Coah.
	Detroit, Mich.	Mexico City, D. F.	XEMX 1280 1 Mexico City, D. F.
	WWL 850 10000 New Orleans, La.	XEC 1150 100 Tijuana, L. C.	XEN 780 10 Mexico City, D. F.
	WWNC 570 1000 Asheville, N. C.	XECZ 1370 100 San Luis Potosi, S.L.P.	XENC 860
	WWRL 1500 100	XED 1160 2500	Mexico City, D. F. XENT 910 15000
-	Woodside, N. Y. WWSW 1500 100	Guadalajara, Jal. XEDA 1220 200	Nuevo Laredo, Tams.
	Pittsburgh, Pa. WWVA 1160 5000	Grai. Anaya, D. F. XEDF 810 100	
	Wheeling, W. Va.	Nuevo Laredo, Tams.	XEOK 760 250 Tijuana, L. C.
	Detroit, Mich.	XEDH 1340 200 Villa Acuna, Ceah.	XEP 1160 50 Juarez, Chih.
	W3XDD 50000 Whippany, N. J.	XEDP 1080 500 Mexico City, D. F.	XEPN 730 10000 Piedras Negras, Coah.
	W3XJ 1060 100 College Park, Md.	XEDW 1150 20 Minatitlan, Ver.	XERA 840 25000
	W8XO 700 500000	XEE 1210 50	Villa Acuna, Coah. XERB 730 10000
	Cincinnati, Ohio XEAA 750 200	Durango, Dgo. XEF 1450 100	Rosarito Beach, B. Cfa
	Mexicali, B. C. XEAC 980 1000	Juarez, Chih.	XES 990 25 Tampico, Tams.
	Tijuana, L. C.	XEFA 1180 500 Tacuba, D. F.	XET 600 500 Monterrey, N. L.
	XEAF 990 750 Nogales, Son.	XEFB 870 200 Monterrey, N. L.	XETB 1310 12 Torreon, Coah.
	XEAG 1310 10 Cordoba, Ver.	XEFC 550 100 Merida, Yuc.	XETF 1220 1
	XEAI 1250 500	XEFE 980 250	Veracruz, Ver. XETH 1210 10
	Mexico City, D. F. XEAL 660 1000	XEFI 1440 250	Puebla, Pue. XEU 1010 25
	Mexico City, D. F. XEAM 750 25	Chihuahua, Chih. XEFM 1160 20	Veracruz, Ver.
	Matamoros, Tams.	Leon, Gto.	Mexico City, D. F
	XEAO 660 250 Mexicali, B. C.	XEFO 940 5000 Mexico City, D. F.	XEX 1310 12 Monterrey, N. L.
	XEAP 1340 50 Obregon, Son.	XEFQ 1010 50 Cananea, Son.	XEXB 1270 25
-	XEAS 1160 100 Saitillo, Coah.	XEFV 1210 100	Jalapa, Ver. XEXD 1340 35
-	XEAT 1210 250	Juarez, Chih. XEFW 1310 300	Jalapa, Ver. XEXE 1270 1
-	Parral, Chih. XEAU 1320	Tampico, Tams. XEG 1230 250	Texcoco, D. F.
_	Tijuana, B. Cfa. XEAW 960 100000	Monterrey, N. L.	San Luis Potosi, S.L.P.
	Reynosa, Tams.	XEH 720 250 Monterrey, N. L.	XEXM 610 50 Mexico City, D. F.
	XEB 1030 10000 Mexico City, D. F.	XEI 1370 125 Morelia, Mich.	XEXS 1310 100 Mexico City, D. F.
	XEBA 1080 20 Guzman, Jal.	XEJ 1020 1000 Juarez, Chih.	XEXX 1170 100
	XEBG 820 1000	XEJP 1130 100	Mexico City, D. F. XEYO 610 504
-	Tijuana, B. Cfa. XEBH 930 500	Mexico City, D. F. XEJW 870 500	Mexico City, D. F.
	Hermosillo, Sonora XEBI 1000 25	Mexico City, D. F.	Merida; Yuc.
	Aguascalientes, Ags.	XEK 890 100 Mexico City, D. F.	ZNS 540 400 Nassau, Bahamas
1	XEBK 1080 100 Neuvo Laredo, Tams.	XEKL 1240 500 Leon, Guan.	YSS 640 500 San Salvador, E. S.

At DEADLINE . . .

THE International Telecommunications 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:

4VL in Charleville, Qsld., has moved from 1430 to 570 kcs.

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

4TO in Townsville, Qsld., has 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.

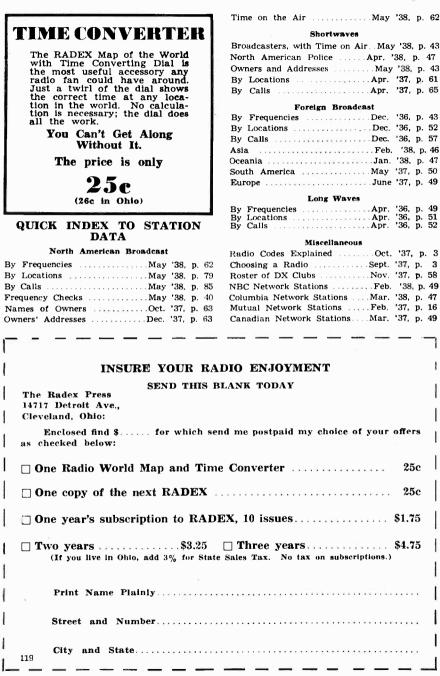
KPFA in Helena, Mont., 1210 kcs, has become an outlet for the National Red and Blue Networks.

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	110 0
0700	7 am	6 am	5 am	4 am	1200
0800	8 am	7 am	6 am	5 am	13 00
0900	9 am	8 am	7 am	6 am	1400
1000	10 am	9 am	8 am	7 am	1500
110 0	11 am	10 am	9 am	8 am	16 00
1200	Noon	11 am	10 am	9 am	1700
1300	1 pm	Noon	11 am	1 0 am	1800
1400	2 pm	1 pm	Noon	11 am	1900
1500	3 pm	2 pm	1 pm	Noon	2000
16 00	4 pm	3 pm	2 pm	1 pm	2100
1700	5 pm	4 pm	3 pm	2 pm	2 200
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	7 pm	0300
2300	11 pm	10 pm	9 pm	8 pm	0400
2400	Midn't	11 pm	10 pm	9 pm	0500
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