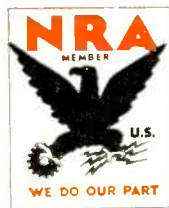


THE NOVEMBER 1933

# RADIO INDEX

THE ALL-WAVE RADIO MAGAZINE



25<sup>c</sup>

30 cents  
in Canada  
Including  
Tax

Monthly Frequency Checks by Channels  
Around the Clock on the Short Waves  
The Beginners' Story of Radio  
Friday's Time on the Air  
Overhauling an Old Set

No. 73

NOVEMBER 1, 1933

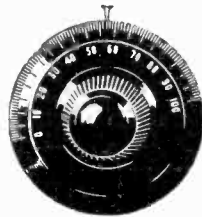


# RADIO INDEX

Reg. U. S. Patent Office

FRED CLAYTON BUTLER

Editor and Publisher



B. FRANCIS DASHIELL  
*Technical Editor*

PAGE TAYLOR  
*Short Wave Editor*

TENTH YEAR

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Published Monthly Excepting July and August  
See Subscription Blank on Page 88

\$1.75 per Year

25c Per Copy

## THE RADEX PRESS, INC.

Publication Office, 404 No. Wesley Ave., Mount Morris, Illinois.

Editorial and Executive Office, Hanna Building, Cleveland, Ohio

Entered as second-class matter November 7, 1932, at the post office at Mount Morris, Ill., under the Act of March 3, 1879. Printed in U. S. A.

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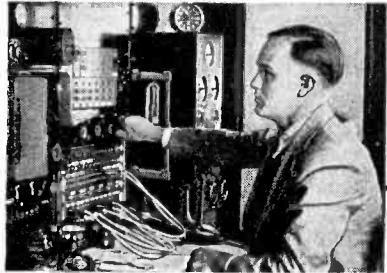
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NAME.....  
ADDRESS.....  
CITY.....STATE.....  
# '1 JS-1'

# NOVEMBER DX CALENDAR

A list of the special DX programs especially for distant listeners, arranged chronologically in Eastern Standard Time. The power is given in parenthesis in kilowatts.

## SUNDAY MORNINGS

Nov. 5-12-19-26

- 12:00-1:00—CMBW, Havana, Cuba, 1140 (.6)  
 CMX, Havana, Cuba, 890 (1)  
 KSO, Des Moines, 1370 (1)  
 XETW, Mexico City, 830 (.5)  
 12:00-3:00—CMCD, Havana, Cuba, 925 (.5)  
 WGES, Chicago, 1360 (.5)  
 1:00-2:00—WDOD, Chattanooga, 1280 (1)  
 1:00-2:30—XLAB, Tamaulipas, 1450 (7.5)  
 1:00-4:00—CMBD, Havana, Cuba, 965 (.25)  
 2:00-5:00—KPYM, Prescott, Ar., 1500 (1)  
 3:00-4:00—KPYM, San Bernardino, 1210 (1)  
 KGRH, Long Beach, 1360 (1)  
 3:00-5:00—CKGV, Kelowna, B. C., 1200 (1)  
 10-AT, Trail, B. C., 1155 (.025)  
 3:00-6:00—XEPD,\* Tijuana, 757 (5)  
 4:00-5:00—CFJC, Kamloops, 1120 (1)  
 CMJK, Camaguey, 790 (.5)  
 \*P. O. Box 1441, San Diego, Calif.

Nov. 5

- 1:00-2:00—WWAE, Hammond, 1200 (1)  
 2:30-4:30—10-BI, Prince Albert, 1200 (.025)  
 3:00-5:00—KPCB, Seattle, 650 (1)  
 4:00-5:00—WCSH, Portland, Me., 940 (2.5)

Nov. 5-19

- 1:30-3:00—CMBL, Havana, 1445 (2)  
 5:00-6:00—XFB, Jalapa, 1290 (1)

Nov. 12-19-26

- 1:00-3:30—WIBM, Jackson, Mich., 1370 (1)

Nov. 12

- 1:00-1:30—WKY, Oklahoma City, 900 (1)  
 1:00-2:00—KUSD, Vermillion, 890 (.5)  
 3:00-4:00—WBHU,\* Anderson, 1210 (1)  
 WOS, Jefferson City, 630 (.5)  
 3:00-4:30—KFOX, Long Beach, 1250 (1)  
 3:00-5:00—KGNO, Dodge City, 1340 (.25)  
 3:30-4:30—CKWX, Vancouver, 1010 (1)  
 4:00-5:00—WBBZ, Ponca City, 1200 (1)  
 WHBD, Mount Orab, 1370 (1)

\*Wants 5c for verification

Nov. 19

- 1:30-2:30—WTMJ, Milwaukee, 620 (1)  
 2:00-3:00—WBBX, New Orleans, 1200 (1)  
 WLEJ, Hagerstown, 1210 (1)  
 WNBX, Springfield, Vt., 1260 (.25)  
 3:00-7:00—KGR, Butte, 1360 (.5)  
 4:00-5:00—KFB, Great Falls, 1280 (1)  
 KFJZ, Fort Worth, 1370 (1)  
 4:00-6:00—WFBC, Greenville, 1200 (.25)  
 XEPV, Jaurez, 1370 (1)

Nov. 26

- 2:00-3:00—WOL,\* Washington, 1310 (1)  
 3:00-4:00—WGLC, Hudson Falls, 1370 (1)  
 3:00-5:00—WFAS, White Plains, 1210 (1)  
 WHAZ, Troy, N. Y., 1300 (.5)  
 XEPV, Jaurez, 1370 (1)

\*Must enclose postage and be postmarked not later than following Monday midnights.

Dec. 3

- 3:00-4:00—CHGS, Summerside, 1120 (1)

## MONDAY MORNINGS

Nov. 6-13-20-27

- 12:00-3:00—WGES, Chicago, 1360 (.5)  
 12:30-1:00—KSQQ, Sioux Falls, 1110 (2.5)  
 2:00-3:00—KPSG, Los Angeles, 1120 (.5)

Nov. 6

- 12:00-4:00—KOOS, Marshfield, 1370 (1)  
 3:45-4:00—KUJ, Walla Walla, 1370 (1)

Nov. 27

- 1:00-2:00—XEPN, Piedras Negras, 585 (75.)  
 2:00-3:00—XENT, Nuevo Laredo, 1115 (75.)  
 3:30-4:30—CP4, La Paz, Bol., 600 (10.)

Nov. 13

- 6:00-8:00—WJAS, Pittsburgh, 1290 (1)

Nov. 20-27

- 3:00-5:00—KOOS, Marshfield, 1370 (1)

## TUESDAY MORNINGS

Nov. 7-14-21-28

- 12:00-1:00—XIEH, Monterrey, 1132 (.25)  
 1:00-1:30—WTOG, Savannah, 1260 (.5)  
 1:00-3:00—CMCW, Havana, 965 (.15)  
 1:00-4:00—WSUI, Iowa City, 880 (.5)  
 4:00-5:00—WCAH, Columbus, 1430 (.5)  
 5:00-6:00—WAWZ, Zarephath, 1350 (.25)

Nov. 7

- 5:00-5:30—WKFI, Greenville, 1210 (1)

Nov. 28

- 1:00-2:00—CMHJ, Cienfuegos, 1125 (.06)

## WEDNESDAY MORNINGS

Nov. 1

- 4:30-5:00—WCAL, Northfield, 1250 (1)

Nov. 8

- 2:00-3:00—WJMS, Ironwood, 1420 (1)

Nov. 15

- 3:00-4:00—WHBQ, Memphis, 1370 (1)  
 3:00-7:00—WOPI, Bristol, 1500 (1)

Nov. 22

- 4:00-5:00—WSPA, Spartanburg, 1420 (.25)

## THURSDAY MORNINGS

Nov. 2-9-16-23-30

- 2:00-4:00—CMK, Havana, 730 (.5)  
 WEDC, Chicago, 1210 (1)

Nov. 2

- 2:30-4:00—CHWK, Chilliwaek, 780 (1)  
 4:30-5:00—WCSB, Springfield, Ill., 1210 (1)  
 5:30-7:00—KGFF, Shawnee, 1420 (1)

Nov. 9

- 12:00-3:00—WCNW, Brooklyn, 1500 (1)

Nov. 23

- 4:00-5:00—WTJS, Jackson, Tenn., 1310 (1)

Nov. 30

- 12:00-7:00—WNBH, New Bedford, 1310 (1)

## FRIDAY MORNINGS

Nov. 3-10-17-24

- 12:00-1:00—KOIL, Council Bluffs, 1260 (1)  
 12:00-6:00—WJAX, Jacksonville, 900 (1)  
 1:00-1:30—WRAM, Wilmington, 1370 (1)  
 1:00-2:00—WBBN, New Orleans, 1200 (1)

Nov. 17

- 12:00-2:00—KIDO, Boise, 1350 (1)

Nov. 24

- 3:00-5:00—XFD, Guadalajara, 1155 (.5)  
 4:00-5:00—KPOF, Denver, 880 (.5)

Dec. 1

- 2:00-3:00—WRAW, Reading, 1310 (1)

## SATURDAY MORNINGS

Nov. 4-11-18-25

- 12:00-1:30—WMBC, Detroit, 1420 (1)  
 1:00-3:00—CMCW, Havana, 965 (.15)  
 4:00-5:00—XEAQ, Mexicali, 560 (1)

Nov. 4

- 3:00-4:00—WJBC, La Salle, 1200 (1)  
 3:00-5:00—XEPV, Jaurez, 1370 (1)

Nov. 4-18

- 2:00-3:00—XES, Tampico, 1020 (.5)

Nov. 11-18-25

- 2:00-3:00—WGLC, Hudson Falls, 1370 (1)

Nov. 11

- 2:00-4:00—XEPV, Jaurez, 1370 (1)  
 3:15-4:15—WMBQ, Brooklyn, 1500 (1)  
 4:00-5:00—10-BQ, Brantford, 1200 (.005)

Nov. 25

- 1:00-7:00—WHET, Troy, Ala., 1210 (1)  
 4:00-5:00—CHRC, Quebec, 645 (1)

Dec. 2

- 4:00-11:00—KFNF, Shenandoah, 890 (1)

# THE MONTHLY FREQUENCY CHECKS

So many of the broadcasting stations who had planned special DX programs for this winter are using their monthly frequency check periods instead, that we are reprinting the list of stations to be checked with the periods allotted them. In the September issue we gave these stations indexed by days of the week; this month we are indexing them by frequencies. The time given is A. M. Eastern Standard and indicates the beginning of the test which will continue in each case for 20 minutes. The call letters will be announced at three-minute intervals. These periods constitute the very best opportunity for logging these stations as the Radio Commission is clearing the air of all possible interference at these times. Our readers in Oceania and other distant countries should bear in mind that these tests will be repeated each month; thus when Friday is indicated it means Friday, Nov. 3, Dec. 1, Jan. 5, Feb. 2, Mar. 2, etc.—the first Friday in each month.

**560 kcs.**  
**KFDM** Beaumont, Tex., Sat. 5:00  
**WQAM** Miami, Fla., Thur. 4:20

**570 kcs.**  
**KGKO** Wichita Falls, Tex., Sun. 5:00  
**WSYR** Syracuse, N. Y., Mon. 5:00

**580 kcs.**  
**WDBO** Orlando, Fla., Thur. 4:00

**590 kcs.**  
**WKZO** Kalamazoo, Mich., Sat. 3:50

**600 kcs.**  
**WCAC** Storrs, Conn., Mon. 5:10  
**WICC** Bridgeport, Conn., Mon. 4:40

**610 kcs.**  
**WJAY** Cleveland, Ohio, Sat. 4:00

**630 kcs.**  
**KGFX** Pierre, S. D., Sun. 4:40

**750 kcs.**  
**KGU** Honolulu, T. H., Tues. 5:30

**760 kcs.**  
**WEW** St. Louis, Mo., Sat. 5:20

**880 kcs.**  
**KFKA** Greeley, Colo., Sun. 5:30  
**KPOF** Denver, Colo., Sun. 5:10  
**WCOC** Meridian, Miss., Thurs. 4:50  
**WSUI** Iowa City, Iowa, Sat. 5:40

**890 kcs.**  
**KARK** Little Rock, Ark., Sun. 4:50

**900 kcs.**  
**KGBU** Ketchikan, Alaska, Mon. 4:10  
**WLBL** Stevens Point, Wis., Wed. 5:10

**920 kcs.**  
**KPRC** Houston, Tex., Sat. 4:40  
**WAAF** Chicago, Ill., Wed. 5:40

**940 kcs.**  
**WAAT** Jersey City, N. J., Mon. 4:50  
**WHA** Madison, Wis., Wed. 5:20

**950 kcs.**  
**KGHL** Billings, Mont., Sat. 4:20

**990 kcs.**  
**WJEM** Tupelo, Miss., Thur. 4:40

**1010 kcs.**  
**WNAD** Norman, Okla., Sun. 5:20

**1040 kcs.**  
**WESG** Elmira, N. Y., Mon. 4:30  
**WKAJ** E. Lansing, Mich., Wed. 5:30

**1070 kcs.**  
**WCAZ** Carthage, Ill., Wed. 4:40  
**WDZ** Tuscola, Ill., Wed. 5:00

**1100 kcs.**  
**KGDM** Stockton, Cal., Tues. 6:00

**1120 kcs.**  
**KFIO** Spokane, Wash., Mon. 6:50  
**KRSC** Seattle, Wash., Mon. 6:30  
**KTRH** Houston, Tex., Sat. 3:00  
**WHAD** Milwaukee, Wis., Wed. 4:30  
**WISN** Milwaukee, Wis., Wed. 4:50  
**WTAW** College Station, Tex., Sat. 3:20

**1200 kcs.**  
**KBTM** Paragould, Ark., Wed. 3:50  
**KERN** Bakersfield, Calif., Tues. 4:20  
**KFJB** Marshalltown, Iowa, Wed. 4:40  
**KFXD** Nampa, Idaho, Mon. 5:00  
**KFXJ** Grand Junction, Colo., Fri. 3:10; Sat. 4:50  
**KGDE** Fergus Falls, Minn., Wed. 5:00  
**KGDK** Yuma, Colo., Fri. 3:30  
**KGHI** Little Rock, Ark., Wed. 3:30  
**KGVO** Missoula, Mont., Mon. 4:20

**KMLB** Monroe, La., Tue. 3:40  
**KVOS** Bellingham, Wash., Mon. 6:10  
**KWG** Stockton, Calif., Tue. 4:00  
**WABI** Bangor, Maine, Mon. 2:40  
**WBBX** New Orleans, La., Tue. 4:40  
**WBBZ** Ponca City, Okla., Wed. 4:20  
**WBHS** Huntsville, Ala., Tue. 2:10  
**WCAT** Rapid City, S. D., Fri. 3:50  
**WCAX** Burlington, Vt., Mon. 3:00  
**WCLD** Janesville, Wis., Fri. 4:30  
**WFAM** South Bend, Ind., Sat. 3:40  
**WFBC** Greenville, S. C., Thur. 2:20  
**WFBE** Cincinnati, Ohio, Fri. 4:10  
**WBHC** Canton, Ohio, Wed. 3:10  
**WBHY** Green Bay, Wis., Thur. 3:00  
**WBXB** Utica, N. Y., Mon. 3:20  
**WIL** St. Louis, Mo., Wed. 5:20  
**WJBC** LaSalle, Ill., Sat. 3:00  
**WJBW** Decatur, Ill., Fri. 4:50  
**WJLP** New Orleans, La., Tue. 5:10  
**WNBO** Louisville, Ky., Fri. 5:50  
**WNBW** Silverhaven, Pa., Mon. 4:30  
**WPHR** Carlisle, Pa., Wed. 2:10  
**WRBL** Petersburg, Va., Wed. 2:50  
**WWAE** Columbus, Ga., Tue. 2:50  
**WWAE** Hammond, Ind., Sat. 3:20

**1210 kcs.**  
**KASA** Elk City, Okla., Sat. 3:30  
**KDLR** Devils Lake, N. D., Sat. 4:30  
**KFJI** Klamath Falls, Ore., Mon. 7:00  
**KFPW** Fort Smith, Ark., Sat. 3:10  
**KFVS** Cape Girardeau, Mo., Sat. 4:10  
**KGCR** Watertown, S. D., Sat. 5:10  
**KGY** Olympia, Wash., Mon. 4:40  
**KIEM** Eureka, Calif., Tue. 4:40  
**WALR** Zanesville, Ohio, Fri. 3:40  
**WBAX** Wilkes-Barre, Pa., Mon. 3:50  
**WBBL** Richmond, Va., Wed. 3:20  
**WCBS** Springfield, Ill., Thur. 4:40  
**WCRV** Chicago, Ill., Fri. 5:30  
**WEBQ** Harrisburg, Ill., Thur. 4:00  
**WEDC** Chicago, Ill., Thur. 3:20  
**WFAS** White Plains, N. Y., Mon. 2:10  
**WGBB** Freeport, N. Y., Sat. 2:50  
**WGCM** Mississippi City, Miss., Thur. 2:50  
**WGNV** Chester, N. Y., Sat. 2:30  
**WHBF** Rock Island, Ill., Thur. 4:20  
**WHBU** Anderson, Ind., Thur. 5:20  
**WHET** Troy, Ala., Tue. 3:10  
**WIBU** Poyette, Wis., Fri. 5:10  
**WJBI** Red Bank, N. J., Sat. 2:10  
**WJBU** Sunbury, Pa., Mon. 4:50  
**WJBY** Gadsden, Ala., Tue. 2:30  
**WJW** Akron, Ohio, Fri. 3:00  
**WKFI** Greenville, Miss., Tue. 4:00  
**WMBG** Richmond, Va., Mon. 4:10  
**WOCL** Jamestown, N. Y., Wed. 3:50  
**WOMT** Mantowoc, Wis., Thur. 5:40  
**WQDX** Thomasville, Ga., Tue. 2:00  
**WSBC** Chicago, Ill., Thur. 3:40  
**WSBN** Columbus, Ohio, Fri. 3:20  
**WSIX** Springfield, Tenn., Tue. 5:30  
**WSOC** Charlotte, N. C., Thur. 2:00  
**WTAX** Springfield, Ill., Thur. 5:00

**1220 kcs.**  
**WCAD** Canton, N. Y., Mon. 4:00  
**WDAE** Tampa, Fla., Thur. 4:30

**1230 kcs.**  
 KFQD Anchorage, Alaska, Mon. 5:50  
 KGGM Albuquerque, N. M., Sat. 5:50

**1240 kcs.**  
 KGCU Mandan, N. D., Fri. 4:00  
 KLPW Minot, N. D., Fri. 4:20  
 WKAQ San Juan, P. R., Thur. 3:10

**1250 kcs.**  
 WCAL Northfield, Minn., Wed. 4:30  
 WLB Minneapolis, Minn., Wed. 5:10

**1260 kcs.**  
 KRGV Harlingen, Tex., Sun. 4:20  
 KUOA Fayetteville, Ark., Sun. 5:40  
 KWWG Brownsville, Tex., Sun. 4:00  
 WMBX Springfield, Vt., Mon. 4:10  
 WTOC Savannah, Ga., Thur. 5:10

**1270 kcs.**  
 KGCA Decorah, Iowa, Sat. 4:00  
 KWLC Decorah, Iowa, Sat. 3:40

**1280 kcs.**  
 WRR Dallas, Tex., Sun. 4:30

**1290 kcs.**  
 KLCN Blytheville, Ark., Sun. 3:00  
 KTSA San Antonio, Tex., Sun. 3:40  
 WEBC Superior, Wis., Wed. 3:00  
 WNBZ Saranac Lake, N. Y., Mon. 4:20

**1310 kcs.**  
 KCRJ Jerome, Ariz., Tue. 5:50  
 KFGQ Boone, Iowa, Thur. 4:20  
 KPFL Dublin, Tex., Fri. 3:40  
 KPFP Greenville, Tex., Thur. 3:40  
 KFXR Oklahoma City, Okla., Fri. 3:20  
 KFYO Lubbock, Tex., Thur. 4:00  
 KGBX Springfield, Mo., Thur. 5:00  
 KGXC Wolf Point, Mont., Mon. 5:40  
 KGEX Kalispell, Mont., Mon. 5:20  
 KGFV Kearney, Neb., Thur. 5:20  
 KIFH Juneau, Alaska, Mon. 6:00  
 KIT Yakima, Wash., Mon. 6:20  
 KMED Medford, Ore., Mon. 7:10  
 KRMD Shreveport, La., Fri. 3:00  
 KRTSM El Paso, Tex., Thur. 3:20  
 KXRO Aberdeen, Wash., Mon. 6:40  
 WAML Laurel, Miss., Tue. 5:20  
 WBEQ Marquette, Mich., Wed. 4:20  
 WBOV Terre Haute, Ind., Wed. 4:00  
 WBRE Wilkes-Barre, Pa., Mon. 4:20  
 WCLS Joliet, Ill., Fri. 4:40  
 WDAH El Paso, Tex., Thur. 3:00  
 WEBR Buffalo, N. Y., Wed. 2:00  
 WBXL Royal Oak, Mich., Fri. 4:20  
 WFBG Altoona, Pa., Wed. 2:40  
 WPDF Flint, Mich., Fri. 4:00  
 WHAT Philadelphia, Pa., Mon. 2:50  
 WIAS Ottumwa, Iowa, Thur. 4:40  
 WJAC Johnstown, Pa., Mon. 2:00  
 WKBB E. Dubuque, Ill., Wed. 3:00  
 WKBC Birmingham, Ala., Thur. 2:30  
 WLBC Muncie, Ind., Sat. 3:30  
 WMBQ Auburn, N. Y., Mon. 3:40  
 WRAW Reading, Pa., Mon. 4:40  
 WROL Knoxville, Tenn., Tue. 4:50  
 WSAJ Grove City, Pa., Wed. 2:20  
 WSJS Winston, Slem, N. C., Tue. 3:20  
 WTFL Philadelphia, Pa., Mon. 3:10  
 WTJS Jackson, Tenn., Tue. 4:10  
 WTRC Elkhart, Ind., Wed. 3:20

**1320 kcs.**  
 KGHF Pueblo, Colo., Wed. 5:30  
 KGMB Honolulu, T. H., Tue. 5:10

**1340 kcs.**  
 KGDY Huron, S. D., Sun. 4:10  
 KGNU Dodge City, Kans., Sat. 3:50  
 WCOA Pensacola, Fla., Thur. 3:40

**1350 kcs.**  
 WAWZ Zarephath, N. J., Sat. 4:10  
 WBNX New York, N. Y., Sat. 3:50  
 WEHC Charlottesville, Va., Wed. 3:30

**1360 kcs.**  
 WCSC Charleston, S. C., Thur. 3:20  
 WQBC Vicksburg, Miss., Thur. 3:50

**1370 kcs.**  
 KCRC Enid, Okla., Fri. 4:10  
 KFBL Everett, Wash., Mon. 4:50  
 KFJM Grand Forks, N. D., Thur. 4:30  
 KFJZ Fort Worth, Tex., Fri. 4:50  
 KGAR Tucson, Ariz., Tue. 5:40  
 KGFG Oklahoma City, Fri. 4:30  
 KGFL Roswell, N. M., Wed. 4:40  
 KGKL San Angelo, Tex., Thur. 3:10  
 KICA Clovis, N. M., Wed. 3:20  
 KLUF Galveston, Texas, Thur. 3:10  
 KMAC San Antonio, Tex., Thur. 3:50  
 KONO San Antonio, Tex., Thur. 4:10  
 KOOS Marshfield, Ore., Mon. 4:30  
 KRE Berkeley, Calif., Tue. 5:20  
 KUJ Walla Walla, Wash., Mon. 5:30  
 KVL Seattle, Wash., Mon. 5:10  
 WBTM Danville, Va., Mon. 2:30  
 WGL Fort Wayne, Ind., Sat. 3:10  
 WGLC Hudson Falls, N. Y., Mon. 3:50  
 WHBD Mt. Orab, Ohio, Thur. 5:10  
 WHBQ Memphis, Tenn., Tue. 2:20  
 WHDF Calumet, Mich., Fri. 5:20  
 WIBM Jackson, Mich., Thur. 5:30  
 WJBK Detroit, Mich., Fri. 5:00  
 WLVA Lynchburg, Va., Mon. 3:00  
 WMBR Tampa, Fla., Tue. 3:00  
 WPPF Hattiesburg, Miss., Tue. 4:20  
 WQDM St. Albans, Vt., Mon. 3:30  
 WRAC Williamsport, Pa., Mon. 2:10  
 WRAM Wilmington, N. C., Tue. 5:00  
 WRJN Racine, Wis., Fri. 5:40  
 WRSV Buffalo, N. Y., Mon. 3:30

**1380 kcs.**  
 WKBY LaCrosse, Wis., Sat. 5:30

**1400 kcs.**  
 KOCW Chickasha, Okla., Sun. 3:50

**1410 kcs.**  
 KFLV Rockford, Ill., Wed. 3:50  
 WBCM Bay City, Mich., Wed. 3:30  
 WHBL Sheboygan, Wis., Wed. 4:10  
 WHIS Bluefield, W. Va., Wed. 2:30  
 WODX Mobile, Ala., Thur. 5:00  
 WRBX Roanoke, Va., Wed. 3:10

**1420 kcs.**  
 KABC San Antonio, Tex., Fri. 4:40  
 KCMC Texarkana, Ark., Thur. 5:10  
 KFIZ Fond du Lac, Wis., Thur. 3:50  
 KGFF Shawnee, Okla., Thur. 5:30  
 KGIW Trinidad, Colo., Wed. 3:10  
 KGIX Las Vegas, Nev., Tue. 5:00  
 KIDW Lamar, Colo., Wed. 3:40  
 KORE Eugene, Ore., Mon. 7:20  
 KWCR Cedar Rapids, Iowa, Fri. 5:00  
 WACO Waco, Tex., Wed. 4:50  
 WAGM Presque Isle, Me., Mon. 2:30  
 WAMC Anniston, Ala., Tue. 3:50  
 WAZL Hazleton, Pa., Mon. 3:20  
 WELL Battle Creek, Mich., Fri. 3:30  
 WENC Americus, Ga., Tue. 4:30  
 WHDL Tupper Lake, N. Y., Mon. 2:50  
 WHFC Cicero, Ill., Thur. 3:30  
 WJBO Baton Rouge, La., Thur. 2:40  
 WJMS Ironwood, Mich., Thur. 3:10  
 WLBF Kansas City, Kans., Fri. 5:20  
 WMAS Springfield, Mass., Sat. 2:00  
 WMBQ Detroit, Mich., Fri. 3:50  
 WMBH Joplin, Mo., Fri. 5:40  
 WPAD Paducah, Ky., Fri. 3:10  
 WSPA Spartanburg, S. C., Thur. 2:10  
 WTBO Cumberland, Md., Mon. 3:40

**1430 kcs.**  
 WNBR Memphis, Tenn., Thur. 4:10  
 WOKO Albany, N. Y., Sat. 3:00

**1440 kcs.**  
 KLS Oakland, Calif., Tue. 4:50  
 KXYZ Houston, Tex., Sun. 3:30  
 WYBZ Greensboro, N. C., Thur. 3:30

**1450 kcs.**  
 KTBS Shreveport, La., Sun. 3:10

(Continued on page 87)

# The BEGINNERS'

## STORY of RADIO

### PART TWO

#### Alternating Currents and Electricity

● ● ● By B. FRANCIS DASHIELL

WE HAVE been impressed by the fact that radio transmission and reception can be accomplished only by vibration. These vibrations are of great importance in a receiver, yet they are simply electrical currents flowing along in wavelike formations. Electricity provides the energy to keep these vibrations or *waves* in motion. When the waves are close together, the vibrations are rapid; when they are far apart, the vibrations are slow.

These vibrating wave forms can be indicated easily by drawings, such as those illustrating this chapter. The different kinds of electric currents assume various wave shapes; one vibrates slowly, like a lazy sea; another more rapidly; one flows steadily; and another pulsates in irregular waves or surges.

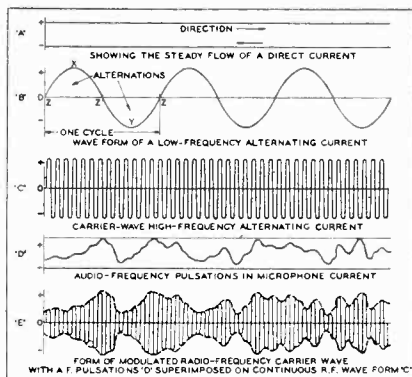
First, we see the *direct-current*, shown in "A"; it flows steadily and never changes its direction. Then there is a slowly vibrating current, with a long wavelike form, as shown by "B." A rapidly vibrating current, with short, wavelike form, is indicated at "C." Now, when direct-current, shown at "A," is varied in intensity, it begins to pulsate and takes irregular wave forms, shown by "D." The most complicated vibration is shown at "E," and it occurs when the rapidly vibrating current, shown at "C," is mixed with the pulsating wave that is indicated by "D." This is a typical radio broadcast wave.

#### A.F. and R.F.

We shall be forced to grasp this subject more clearly, and therefore

must give some study to vibrating electric currents. Radio utilizes two classes of electrical vibrations. The slower vibrations, to which the human ear responds, are known as *audio-frequency* vibrations, and they vary in speed from 25 to slightly more than 10,000 per second, as shown at "B" and "D." Now when the vibrations become very rapid the ear no longer can detect them. These, then, are inaudible, *radio-frequency* vibrations, and they range from 15,000 to 300,000,000 per second, as illustrated at "C."

You have guessed by now that both audio and radio-frequency vibrations are used in radio. All audio-frequency vibrations, as shown by "B," and direct-current pulsations, indicated at "D," produce audible sound. The radio-frequency vibrations, as shown at "C," provide a *continuous*, inaudible *carrier-wave*. This wave carries the audible sound waves through space.



We know that the continuous, radio-frequency wave will conduct the audible, audio-frequency wave into and through our radio sets. Let us now carefully study illustration "E." We observe a radio-frequency carrier wave, similar to "C," but holding to the outline of an audio-frequency sound wave, similar to "D." This combination is the result of *mixing* the two wave forms together. One wave, "C," is the product of the *oscillating*, or electrical vibrating, transmitter in the broadcasting station; the other, "D," comes from the microphone in the studio. Mixing the two causes the carrier wave to assume the form of the audio, pulsating wave, so that the latter can be broadcast far and wide.

A radio wave of the character of "E" now becomes a *modulated* radio-frequency wave or current. The outline of the carrier-wave tops will conform exactly with the sound or microphone wave "D," and it is the impression of these audio-current pulsations on the rapidly vibrating radio wave that converts the original sound waves into rapidly vibrating electrical energy having a modulated continuous-wave motion.

#### A.C. and D.C.

How are electrical vibrations created? *Alternating-current* has solved that problem. Without alternating currents radio in its modern sense could not be possible. But what are alternating currents? Alternating electricity cannot be obtained from a battery; only mechanical motion or oscillating radio tubes can produce it. Batteries give only direct-current. This direct-current flow is a movement of electricity in one direction only. No matter how much the pressure (voltage) of this movement is increased or decreased, it never changes the direction of flow. When direct-current continuously varies in strength but not in direction, as shown at "D," it is called a *pulsating* or surging direct-current.

However, when the pressure behind

electricity flowing through a circuit is reversed, the current flow will also reverse its direction of motion. Now, if the power or pressure is periodically reversed, alternately positive and negative, at regular intervals, then the current flow will likewise reverse and periodically alternate. These, then, are electric vibrations, rushing back and forth through the wires of the circuit like the swinging of a pendulum. And these alternations, or vibrations, may be so regulated as to occur at any desired rate or frequency per unit of time.

#### The 60-cycle Current

The rise and fall of the flow of the current in one direction is called an *alternation*; and the second rise and fall in the opposite direction is another alternation. See X and Y at "B." It takes two alternations for the current to return to its original position at Z in "B." Therefore, two alternations constitute a *cycle*, as shown at "B." The length of time required to complete the full cycle is the time period, which, in our householding circuits of 60 cycles per second, is 1/60th of a second. An alternation, in this particular circuit is, therefore, 1/120th of a second in length. The 60 cycle light-circuit hum we oftentimes get in our radios therefore has a vibration sound of 120 waves per second.

The number of cycles (not alternations) that occur during one second of time is known as the *frequency* of the alternating current. In radio, where many thousands of cycles are needed, the term *kilocycle* is used; 1,000 cycles being equal to 1 kilocycle. And in short-wave work we hear of the *megacycle*, meaning 1,000,000 cycles or 1,000 kilocycles. 2.5 megacycles being equal to 2,500 kilocycles, for instance. Alternating currents having frequencies as high as 600 megacycles have been created in ultra short-wave experiments!

Alternating currents are very valuable. They can be transferred from one circuit to another without elec-



trical contact; they vibrate through space to strike our aeriels, and swarm back and forth through our receivers; they may be amplified instantly to great intensity, or reduced to the faintest whisper.

### The Mysterious Power

What is electricity? It is an agent for the transfer of energy; it cannot be seen or heard except through its effects. It can be produced by friction, chemical action, or mechanical motion. There are two kinds of electricity—*positive* and *negative*. These opposite kinds attract each other and therefore cause a current to flow through a conductor. Like charges tend to repel each other. The same condition is found in the *magnet*, which has *north* and *south* poles. As an example run a hard-rubber comb through the dry hair. The comb becomes charged and will attract bits of paper. If held to the radio antenna a sharp crash will be heard in the speaker, thus proving that *static electricity* was generated by friction.

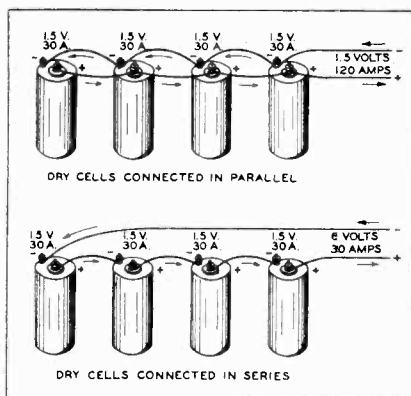
Electricity can be generated by chemical action in a *battery*. The simple voltaic *cell* is the basic form. It consists of two dissimilar metals, zinc and copper, immersed in a dilute acid solution. A current will flow through a wire connecting the two metals. The *dry cell*, a more prac-

ticable form, is essentially similar. Its zinc container, the negative terminal, holds the moist paste acid electrolyte and the central carbon (similar to copper but cheaper) positive electrode. Our B batteries are made up of a large number of small dry cells. *Storage batteries* retain the direct-current sent into them from an outside source (charging operation) because of certain chemical changes in the solution and plates. Single dry cells give 1½ volts and storage cells give 2 volts each. Connecting single cells in *series* adds the voltages of the individual cells together but does not increase the quantity of available current beyond the capacity of one of the single cells. *Parallel* connections do not increase the voltage of the entire group beyond that of a single cell, but adds the total quantity of current available together.

### Terms of Measurement

Electricity is measured by volts, amperes and watts. The *current* is the flow of energy; imagine the wire to be a pipe, and the current to be the motion of the water. The *volt* is the unit of pressure or *electro-motive-force* (e.m.f.), just as the force of water in a pipe is measured by pounds. The *ampere* is the unit of amount or quantity of electricity, just as water is measured by gallons. The *watt* is the unit of electricity consumed or created per unit of time (one hour); it is determined by multiplying volts by amperes. For instance: A device consuming one ampere per hour with a pressure of 110 volts is said to use 110 watts. A radio tube requiring 1.5 amperes at 2.5 volts consumes 3.75 watts per hour. Add all the wattages of your tubes together, plus about 25 per cent for loss of efficiency, and you will get the power consumption of your set. To this must be added also the plate currents of the tubes in milliamperes, which amount can be obtained only from tables of tube characteristics.

(Continued on page 86)



# OVER *the* Editor's DESK

● ● ● *The Monthly Confab*

**D**AY by day, in every way" we are growing bigger and bigger. Ninety-two pages of this issue, crammed "from kiver to kiver" with all-wave radio news and information. A lot of our readers can remember when there were only 32 pages. RADEX is, we believe, now the oldest radio publication in existence under its original management. As we look back from the pinnacle of our ninth birthday, we can see a long procession of radio magazines which have traveled to that bourne from which no one returns. Some of them were mighty good too.

Under the editorship of Page Taylor, our short wave department is steadily growing in interest and importance. The new feature that begins this month—Around the Clock on the Short Waves—is, we think, quite the most convenient method of presenting the time on the air yet devised. We are sure it will be most popular with our devotees of the higher frequencies. RADEX readers are turning more and more to the short waves for new thrills in radio. As they require new sets, they are buying the all-wave receivers in increasing numbers.

"I think you ought to enlarge RADEX, cut out the short-wave stuff, tell more of DX reports and about the stations themselves," advises F. L. Biss, Brittmount, Minn. Well, we are acting on Mr. Biss' first suggestion as we said before and adding eight pages to this issue of your favorite radio magazine, but about cutting out the "short-wave stuff"—Mr. Biss ought to see some of the letters we get from s. w. listeners telling us to devote ourselves to the short waves entirely. Then there are the letters from other readers who suggest cutting out both the short waves and broadcast band and giving them programs exclusively. As we just can't cut out anything,

there was nothing for us to do but add and "we hope you'll like it."

## The Broadcasting Business

Is the broadcasting business too much of a child as yet to have acquired a code of ethics? Many complaints have been made concerning the tendency of some stations to rush to the air unconfirmed rumors they receive without taking the trouble to try to verify them. Grossly exaggerated reports and even some made out of the whole cloth, have been broadcast as "news" flashes. Now the police departments of Indiana and Illinois are taking action against station WIND, claiming that it "faked" a gun-battle between police and gangsters they were chasing. As a result, police hearing the broadcast and tak-



*Among the voices heard in the CBS "March of Time," as well as a number of other dramatic programs, is that of Ann Hastings. She's twenty-two, comes from Albany and has appeared in stock companies throughout the United States.*

ing it for what it purported to be, changed all their plans and rearranged their forces. Unless the National Association of Broadcasters can discipline its own members, the Federal Radio Commission should step in and cancel a license or two and teach broadcasters to be careful concerning the truth of statements they make over their transmitters.

What are we going to do with stations who ask us to list them as verifying reception and then keep the stamps sent them by our readers and make no reply? The fault is not always the station's, as many listeners give vague reports, sign their names illegibly and fail to enclose postage. But we do receive many letters from readers who convince us that they have submitted good reports of reception and enclosed postage, not once, but often five times, and still received no reply. A. H. Bacon, 928 13th Street, New Westminster, B. C., tells us that he has written three letters enclosing U. S. stamps to station KLPM at Minot, N. Dak., and heard nothing in spite of the fact that the announcer invited reports of reception and said all letters would be acknowledged. Mr. Bacon sends us a copy of his report, which is certainly worthy of verification. Again we ask, what shall we do about this situation? In fairness to the stations, we are urging our readers to send postage or pennies always. Now we want the stations to be fair to our readers and give them a reply for their money.

### Punishing the Outlaws

Inquiry was made by one of our readers in a previous issue regarding a so-called station WRB in Bridgeport, Conn. Henry Moeller, Jr., 31 Allview Ave., South Norwalk, Conn., tells us that this station was using the wires of the Connecticut Light & Power Co., broadcasting by "wired wireless." A statement from the FRC regarding this case gives the information that the defense of the owner was that he needed no license as the signals from his transmitting equipment were emitted through the power



*Leah Ray is the cute little Southern girl who sings with Phil Harris and his orchestra over an NBC (Blue) network on Fridays at 9:00 p. m. EST. Leah, still in her 'teens, was featured in Maurice Chevalier's picture, "A Bedtime Story."*

lines and received by sets connected with these power lines. The Government contended that this transmitting equipment acted as a radio station and emitted signals through the air, which signals were picked up by sets connected to ordinary antennae. The Government showed by its agents that the signals were received in the state of New York by a receiving set not connected with the power wires.

The jury rendered a verdict of guilty on two counts and the judge fined the defendant \$25 after a plea for leniency by his counsel.

### Says Thank You

"I am writing to thank you," says Stuart B. Leland, 82 St. John's Place, New Canaan, Conn., "for your extreme kindness in replying to my request for the data on the filter chokes in my Radiola 60, which has been of exceeding help. I would not have been able to get this information otherwise,

as RCA stated they were unable to give it. RADEX offers the utmost help to every radio fan, both the DXer and technical experimenter. Though I am going to try to give up DXing this year, I will see that my subscription is renewed. Frankly, I don't think it would seem like winter unless I could cuddle up in a comfortable chair in the evening and study RADEX."

"I have just finished constructing the noise filter described in the May issue," reports H. C. Lutz, 627 Normal St., Springfield, Mo. "I was surprised to find how much better performance I got with it. Old Man Static was getting a lot of cussing he didn't deserve as I soon found out after I connected the filter."

### The Radex Converter

In the May and June issues of this magazine, our Technical Editor described a simple short-wave converter for home building which could be attached to any receiver. A letter comes to us from W. H. Gould, Morris, N. Y., giving the results he has received. "I have now had the RADEX converter in use for a month and during this time, I have received the following stations: VE9DR, VE9JR, VE9GW, W9XF, W3DAU, W3XAL, W2XE, W8XK, VE9HX, YV1BC, GSB, GSC, GSD, GSE, W2XAF, DJA, DJB, DJC, DJD, EAQ, VK3ME, VK2ME, Pontoise, and many 80-meter amateurs. I hardly expected to receive the Australian stations, but find they come in with as much volume as most locals. The best time to receive them in this locality is between 6:00 a. m. and 8:00 a. m. EST. I am using the converter with a General Electric Model J-85 8-tube superhet. The converter plate voltage is taken from the plate of the 47 tube in the b.c. set with a 5000-ohm variable resistance in series. A separate filament transformer is used for the converter filament current. I am grateful to RADEX for this very fine converter circuit and highly recommend it to any short wave fan."

### That Fly-Weight All-Wave

"The flyweight portable all wave set you told about on pages 17 and 30 of the September issue, is fine. I just built one. I made it a 3-tube set, however. I have heard England, Germany, France, Spain, Italy and many others on short waves, also many long wave stations. Its best features are a short aerial and the fact that it works well on 45 volts B battery; 90 volts gives loudspeaker volume on stations within 500 miles. On the East Coast of Florida on long waves I heard a station that is mighty hard to get off the Florida coast—KSL of Salt Lake City, 1130 kcs. I also heard KOA, Denver. I believe the shaking of a short wave antenna on board ship makes stations harder to get. What do you think?" This interesting report comes to us from Thomas Johnson, of the S. S. Yorba Linda, whose harbor address is Box 1041, 25 South Street, New York City.

That list of 300 stations having monthly frequency checks which we published in the September issue, was certainly manna for our DXers. "Last night I picked up 23 of the 36 stations being monitored," reports F. E. Andrew, 104 19th St., Warwood, W. Va.—typical of the reports of many others. As the frequencies are cleared for these tests, they provide an especially favorable time for tuning in many of the low-powered stations who could not otherwise be heard. The checks are being made during the first week of every month so those you cannot log one month should be tried for the succeeding months.

### Use the Codes

"The codes which you give in the September issue (page 27) for reporting volume and quality of reception, would simplify the giving of such information to a great degree and let the stations know with greater accuracy just how they were being received. After all," wisely concludes Myron A. Sturm, 1421 Sherwin Ave., Chicago, Ill., "the receipt of such information is the main reason for a

station's tolerance of the DXer. If these codes can be used to give the desired data briefly, our debt to them for their courtesy in sending verifications will be met somewhat." Yes, friend Myron, these codes will be readily understood by the engineers of broadcast as well as short-wave stations for they are in use internationally in radio.

"For the past few days I have been rereading my old copies of RADEX," comments James Owen, 1019 W. Webster, Springfield, Mo., "and noticed in the November, 1932, issue that you mentioned the fact that moving your set from one room to another would change your reception a lot. Well, I can verify that statement now. I moved my Philco 7-tube set from the living room to my room and many stations I could hardly hear before come in like locals now. I have been experimenting with new aerials and find that by using two aerials which connect at about a 45-degree angle I get the best results."

Clement Van Velsor, 1033 Sanford Ave., Irvington, N. J., thinks the ballgame which Walter Dmitrzak of Buffalo, mentioned in our October issue, probably originated with KEX. He says, "In Newark where night baseball is not nearly as frequent as in other International League cities, games have ended at 1:00 a.m. I have heard WBEN broadcasting a game between Rochester and Buffalo after 11:00 p.m. I think Mr. Dmitrzak heard a night game in the Pacific Coast League. The only station on 1170 or 1180 in a Pacific Coast League city is KEX."

"By the way," says Clair Calavan, Jefferson, Ore., "about two weeks ago, I noticed that XGOA, Nanking, China, was broadcasting on 660 instead of 681.8—probably to escape interference from the Japs on 680." A brand-new list of the Chinese stations comes to us from the International DXers Alliance, Bloomington, Ill., with XGOA still on 681.8. "Japs and Aussies may be received any morning at any time



*Don Bestor and his orchestra frequently have been heard over NBC networks and the Prince of Wales has placed his stamp of approval on their music by placing a standing order for all their phonograph recordings. At present you can hear Don and his boys over the NBC (Blue) network every Friday at 8:00 p. m. EST on the Nestle's program.*

of the year here," goes on Mr. Calavan, "even during the latter part of June when the nights are shortest."

What owner of a Midwest 1933 16-tube superheterodyne can help this reader? He reports that he can get only local stations and a few nearby U. S. stations and that he is fearfully troubled with howling and squealing and a sort of frying noise. The inquirer is C. A. Maple, 1035 South Vermont Ave., Los Angeles, Calif.

Who has an "Ear" set, or knows where and by whom it is made? John J. Wojcik, 2842 W. 25th Place, Chicago, Ill., has one and is anxious to hear from others who may have a similar set.

#### With Only One Tube

When we published some time ago the story of a reader in Pennsylvania who had heard a number of the Oceanic stations, we were given a barrage

*(Continued on page 87)*

# GOSSIP *from* Radio's White Way

• • • By "BETTY"

**D**EEP RIVER . . . muddy waters gliding aimlessly past gnarled tree trunks . . . soft winds sighing through the leaves . . . weary negro voices serenading the summer moon . . . lonely cabins dotting the fields of swaying cotton—these are the images conjured up by the name of Willard Robison, Evangelist of Rhythm. His music is wholly unique; his arrangements have no conventionalized pattern; his composition is one of those phenomena as truly symbolic of 1933 America as is the architecture of the modern skyscraper. Half-modern, half-folk song in structure, it is a congenial wedding of the tunes of the Old South to the syncopated rhythms of today.

A piano player in a nickelodeon, trouper in small-time vaudeville, entertainer in dance emporiums of oil boom days, attraction in medicine shows, star of the old tab shows, Robison brings a colorful background to his biweekly Columbia broadcasts. He is heard each Sunday at 5:00 p.m. EST, in a program of "Syncopated Sermons," accompanying himself on the piano while David Ross reads a continuity composed entirely of poetry; and each Thursday at Deep River Orchestra.

## His Fight Upward

Robison was born in the obscure little town of Shelbina, Mo., during the closing years of the last century. He studied piano for a few months under a local teacher, and that constitutes his entire academic training. When young Willard was still in his early teens the family moved to Kansas and the youth landed his first job playing in a "jitney" show. He improvised the entire program, providing his themes and his own ar-

rangements. Other jobs in auto shows, medicine shows, and vaudeville followed and Robison organized his original Deep River Orchestra.

He toured the country with his orchestra, played at hotels from Maine to Florida, made numerous phonograph recordings, made several movie shorts, and finally found his way to radio. Robison was featured over the Columbia network in 1929 when he appeared on the old Kodak and Blackstone hours. Since then he has been heard over numerous stations and over another network.

## The Southern Melodies

The negro spiritual and the folk tunes of the Old South have been Robison's inspiration since childhood. He finds sincerity and genuineness in these tunes, the qualities which are



Willard Robison

to him the cornerstone of all music. When he followed Paul Whiteman's advice and came east for the first time, he found that he could not compete with the established Tin Pan Alley composers. He lost a lucrative job with a large publishing firm because he could not write commercially and to order. The facile rhymes and trite melodies of the day were to him counterfeit music, and he could not write unless he had something worth-while to deliver.

An example of the way in which Robison composes is found in his famous song, "Cottage for Sale." He had bought a beautiful home in Crestwood, N. Y., for his wife and daughter, but fortune turned against him and he was forced to give it up. His feelings found expression in the song—and the public appreciated it to such an extent that the composition became a best seller and he was enabled to buy back his cottage.

There is nothing of the suave urbanity typical of the Broadway entertainer about Robison; it is obvious that he is more at home in the sagebrush than the salon. Tall, sandy-haired, slender, he is shy, soft-spoken, and drawling. He has a genuine love for the naive negroes of the southwest whose original melodies have been his inspiration. He considers his negro arranger, William Still, one of the most talented men of his acquaintance and to him attributes a large measure of the success of his Deep River interpretations. Among composers, Stephen Foster is his ideal, and between the two future generations will find more than passing similarity.

#### Your "Cousin Anna"

Agnes Moorehead—the comic "Cousin Anna" to you—of the "Evening in Paris" broadcasts always plays her hunches.

On a hunch, she accepted the wager of a friend and came to New York to prove she could get a job before starvation threatened. After a comparatively short interim, New York audiences were witnessing her per-



*Agnes Moorehead*

formances in shows starring such favorites as Elsie Ferguson, Violet Heming, Gertrude Lawrence, and in the Theatre Guild production, "Marco's Millions."

Then she played the hunch of going into radio. And success was the reward of her venture. It took courage to follow up those hunches, but they were not entirely responsible for her achievements. Hard work has played an all-important part in reaching her present place in the amusement world. And she may be just squeaky-voiced "Cousin Anna" to you, but she's a striking brunette to us.

Although born in Boston, most of her childhood was spent in St. Louis, Mo. She is an alumna of Muskingum College, the University of Wisconsin, and the American Academy of Dramatic Arts.

#### Out of the Parsonage

Agnes, who is a minister's daughter, first studied music at an old-fashioned square piano and progressed to entertaining visiting relatives with musical selections and recitations. The usual dramatic

activities at school and college resulted in her debut with the Municipal Opera in St. Louis during one summer vacation. The following two summers with the same company gave her the ground work needed in musical and dramatic work. Then, New York, the stage and radio.

Of course, Miss Moorhead has definite radio superstitions, as most performers do, her pets being the wearing of an Indian bracelet to each broadcast and not wearing diamonds. She believes a fallen picture is most certainly a bad omen, as is the picking up of her fallen gloves. She stooped to regain them only once, and although refusing to divulge the consequences, says "never again."

The bulk of her fan mail comes from men, although one old lady was so enthusiastic about "Cousin Anna" that she sent her a lively little pink pig in a crate. Of its fate Agnes begs us not to inquire. One of her hobbies is cookery.

Agnes admits she never fails to have "mike fright" just before going on the air, but once the program has begun, concentrates so entirely on the script that her poise soon returns.

Her present ambition is to make sincere characterizations. And she has a hunch that her future ambition will be to retire and raise children and flowers "out where the west begins."

#### Almost a Druggist

Eddie Duchin, talented young maestro-pianist, narrowly missed prescribing remedies for headaches instead of rhythms for blues. His father owns a chain of drug stores in Boston, and Eddie was graduated from Pharmacy College where he prepared to follow his father's footsteps. His career as a pharmacist was interrupted when his hobby, piano playing, came to the fore, to bring him ultimately to the bandstand of the Central Park Casino in New York.

Eddie never considered music as a profession, although that career began to evolve during the summers he worked as a waiter at a boys' camp in



*Eddie Duchin*

New Hampshire. The waiters organized an orchestra of three pieces—piano, saxophone, and fiddle. Here Eddie began to bob his head instead of waving a baton to guide the rest of the outfit. He still bobs his head vigorously as he leads his orchestra—but he wears a full dress suit and a debonair gardenia in his button hole rather than khaki camping regalia.

Eddie was born on April Fool's Day, but this proved no drawback to success. Both Eddie's parents were musically inclined, so he was forced to take piano lessons at the age of nine. One hour of practice a day was expected of him, and he always took care to hit it "on the nose," as in broadcasting, with no wasted moments over the hour traversing the scales with his rebellious hands.

#### His Originality Horrifies

As Eddie progressed in his piano studies, he began to experiment and style his playing, much to the horror of his instructor. Instead of playing measured Bach and Beethoven, Eddie's fingers cavorted over the octaves to jazz patterns. He never thought of making money out of this aptitude for syncopation until a pro-



essional pianist advised him to join the Union. Eddie did so, and began to accumulate extra money in the summers, working in a drug store during the day and playing at local dances in the evenings.

In the summer of his Junior year at Pharmacy College, Eddie won a Leo Reisman audition and joined his orchestra at the old Waldorf-Astoria. He returned to Boston in the autumn to finish school, graduating in 1929 as president of his class.

Instead of joining his father in the pharmacy business, Eddie took a job as pianist with Reisman at the Central Park Casino, and so popular was his tickling of the ivories that within a year he was given an opportunity to organize his own outfit—featuring piano solos by Eddie Duchin.

Eddie says he's a confirmed bachelor . . . he's tall, dark-haired, good-looking. And wherever he plays there is at least a dozen of adoring debutantes seated near the bandstand. He keeps his ear to the pulse of the nation with the type of music his dancers and his radio audience like. It's fast tempo that's popular now. Times are getting better, says Eddie.



*Vee Lawnhurst and John Seagle*

### A Popular Team

Popular melody played and sung with the classical touch accounts for the favor which Vee Lawnhurst and John Seagle have won with Wildroot audiences who hear them each Sunday at 4:15 p. m. EST over an NBC (Red) network.

Vee Lawnhurst started her career as a pianist with a thorough grounding in technique and theory, and studied the classics for many years under competent teachers. Her unusual sense of rhythm, however, diverted her technical ability into the channels of modern composition, in which field she has been highly successful. She has been heard on many NBC programs, both as soloist and as a member of a popular two-piano team.

Working on the Wildroot program with John Seagle is her idea of a good time, says Vee. Whether she plays accompaniments for the handsome young baritone, or joins him in a vocal duet, there's satisfaction in harmonizing with some one who has her own appreciation of the good points of music, according to Miss Lawnhurst.

Seagle also received a training in classical music, his father, Oscar Seagle, having been a teacher and concert artist. John was born in Paris and came to this country after several hair-raising experiences as a child during the World War. Six years ago John and some of his buddies formed a quartet which won popularity on the air. He joined Vee on the Wildroot program several months ago, and they have been burning up the air ever since.

### Dramatizing the News

Actors, musicians, dramatists, sound-effects technicians, production men, casting experts and engineers make up the seventy-odd people whose combined efforts are required to get Columbia's stirring news dramatizations ready for the microphone on the noteworthy March of Time programs, heard each Friday from 8:30 to 9:00 p. m. EST.

More than thirteen hours are put into actual rehearsal of the program. This particular activity is not made any easier by virtue of the fact that eleventh hour news developments may require complete revamping of the program.

Probably the most arduous task belongs to Arthur Pryor, Jr., director of the current events re-enactments. After a conference with the dramatists on Tuesday afternoon, he has an idea of what the world events may develop by Friday night. He then consults Howard Barlow, who has charge of the music, and Ora Nichols, CBS sound-effects expert. On Wednesday, Pryor busies himself with the job of casting. On Thursday morning the actors are given tentative drafts of the March of Time script. After an audition that afternoon, the script is usually torn to bits and revision begins. If Pryor gets to bed before dawn Friday morning he considers himself fortunate. The entire process is repeated the day of the broadcast and ninety minutes before air time there is a final checking of scripts, changing of music, sound-effects and engineering cues, and the insertion and rehearsal of any new scenes occasioned by last-minute happenings in the four corners of the earth.

\* \* \*

James Melton, the tenor, has quietly been studying dramatic acting for the past three months and is just about ready to step into the lead in a Broadway musical show. He still takes three vocal lessons a week, and has done so ever since he came up "Nawth" from Nashville.

\* \* \*

Watch for the world's most famous radio quartette, the Revelers, to blossom out as movie actors. Negotiations are under way now for them to do a series of movie shorts.

\* \* \*

People frequently wonder what it is that Jane Froman's maid carries so

carefully back and forth to the studio, for it's too big to be a jewel case and too small to be a piano. It's a thermos bottle. Jane always drinks coffee before singing and it cannot be too hot or too cold; hence the thermos bottle.

\* \* \*

Don Ross had laryngitis and it brought out one of the best reasons why Jane Froman and he are called "radio's happiest couple." Jane and Don sing songs in the same key, so when Don had a program to do despite his illness, Jane rehearsed the orchestra, did the dress rehearsal and then turned the show, ready, over to hubby.

\* \* \*

Realizing that "The Last Round Up" is going to presage a whole flock of cowboy ballads, members of the Men About Town trio are digging back into their trunks and Arranger Will Donaldson is working overtime to increase their repertoire of the ranch-hand songs.

\* \* \*

Ethel Waters left radio temporarily because she was opening in the new Irving Berlin show and felt she couldn't do justice to both the stage and radio at the same time.

\* \* \*

An emotional person is Lulu McConnell, fast-talking comic lady who made her radio bow as the star of "The Big Show". . . . This stage veteran sat down and broke into tears as soon as she finished her bridge-game skit on the opening program, though she wouldn't say whether they were tears of joy, nervousness or relief. . . . But within two minutes the irrepressible Lulu was making faces at one of Isham Jones' saxophone players.

*"Aerials from a New Zealand Viewpoint" is the title of an interesting article which will appear in our December issue.*

# LOGGING *the* Elusive STATION

• • • *With the* RADEXERS

**I**T CERTAINLY will not be our fault if our DXers waste any time in sleep this month. What with the DX Calendar and the monthly frequency checks arranged by channels, this issue of the radio fan's own magazine is chock full of opportunities to add to any man's log.

"I certainly agree with you when you state that this will be the greatest DX season the world has ever known," asserts Raymond Corbett, 619 12th St., Sacramento, Calif. "The modern sets can't be beat, and the Australian and even Japanese stations should be heard all over the U. S. with regularity.

"Since fall started I have received the following new stations: WBCM, KFLV, WLB, WCAL, KGFI, CKFC, WHAD, WESG and KPBL. If this is a sample of what will come later, I guess I'll set a record of some sort. Heard my first Japanese station, JOHK, this morning, September 24, and it came in with good volume.

"Have noticed that KGBU in Ketchikan has been coming in with a very strong signal lately, better than it has ever come in before. The fans in the east who want Alaska in their list should be able to pick them up quite easily. They can best be heard from 1:00 a.m. PST on."

## From Down Under

An interesting letter (and a subscription) comes to us from Norman T. Ganley (DX234A) 35 West End Ave., Westmere, W2, Auckland, N. Z. Says the preface, "I have before me the March issue of your RADEX which I have had lent to me by a friend. I enjoyed reading your book, finding it both most interesting and instructive.

"I am a keen DXer, having logged 243 stations, but it's only this last three months that I have started send-

ing for verifications. Have sent to KSL, KFI, KHJ, KPO, KGO and KYA in America. The Japs come in fairly strong here. The Mexicans are good at times.

"For the interest of some of your DX fans, our local 1ZR, 1090 kcs., 100 watts, operates Mon., Tue., Wed., Fri., 7:30 a.m. to 2 p.m., 5 to 10:30 p.m. Thu. and Sat. on till 11:00 p.m. and Sun. 11 a.m. to 1:00 p.m., 2:30 to 4:00 p.m. and 6:00 to 9:30. This is our best station. Although not having as much power as our 1YA, 1ZR has a more modern plant with crystal-controlled master oscillator.

"Our 2YA, Wellington, 720 kcs., 5000 watts, is quite a good station and well worth trying for. Tell your readers to watch for 1ZS on 1420 kcs. in the near future; a new company has



*Miss Clementine Heineman, featured soloist and only woman member of Phil Spitalny's Orchestra as it is heard each Friday at 8:30 p. m. EST. on the Goldenrod Revue (CRS). Her instrument is the accordion.*

taken the station over and I believe they are going to increase the power greatly.

"I have a Stewart-Warner 7-tube receiver, Model R-106A. It is a good set both for distance and tone."

From Australia comes the information that 2MO, Gunnedah, on 1320 kcs., is desirous of receiving reports from the U. S. Our correspondent, L. Schnitzerling, 72 Canning St., Warwick, Queensland, Australia, says they are on the air from 7:00 to 9:00 p.m. daily, Eastern Australian Time which, according to the RADEX Time Converter, is 4:00 to 6:00 a.m. EST. "Here is a piece of interesting information about some new stations it is proposed to erect in Australia," adds Mr. Schnitzerling. "At Grafton, N. S. W., 920 kcs., with 20 kilowatts; at Townsville, Queens., 640 kcs. with 20 kws.; at Sale, Vict., 830 kcs. and 10 kws.; at Launceston, Tasm., 630 kcs. and 10 kws. So far tenders only are called, but when these are officially on the air, I will advise you."

### Some Foreign Programs

In the October issue, Earl R. Roberts, 42 Burt Ave., Newark, Ohio, told us of some of the plans for special DX programs by foreign broadcast stations. Now he has this to add: "HHK was unable to DX but hoped we could hear his regular Friday evening broadcast from 8:00 to 9:00 EST on 920 kcs., 1000 watts. LR4 would not DX but gave his schedule as 11:00 a.m. to midnight daily, Argentine time. The new station of the Compañia Radio Boliviana, CP-4, on 600 kcs., 10 kw., agreed to a special broadcast. The date is November 27, 3:30 to 4:30 a.m. EST. This program will also be relayed by its s.w. station, CP-5, on 6080 kcs., 1000 watts.

"Radio Excelsior, LR-5, Buenos Aires, will be with us on December 3, using 830 kcs. and 27 kw., antenna power. Quoting from their letter which was written in English (unusual for a S. A. station) 'The hour that would best suit us would be from 2:00-3:00 a.m. EST, which corres-

ponds to 12:00-1:00 a.m. Argentine time.' The time I requested was 3:30-4:30 EST. I don't understand their statement regarding 2:00-3:00 being midnight to one in Argentine. I look for LR-5 to be on either at midnight their time or at 2:00 a.m. our time on December 3. Their broadcasting hours are 11:00 a.m. to midnight without interruption."

In view of this discrepancy in time, it looks as though Radexers who want to try for LR-5 will have to begin to look for them at midnight EST, Dec. 3rd and stay on until after 3:00 a.m.

### It Was Hot In Texas

"I have a Majestic 8-tube superhet in a midget cabinet, Model 21," comments Charles Lindsey Clark, 506 West 32nd St., Austin, Texas. "The set is three years old and only one tube has been replaced because of physical breakage. I have the aerial terminal grounded with No. 22 copper wire wound around a gas pipe. The ground terminal is left open. The weather down here was very poor yesterday, there being thunderstorms around. But I kept the set on for 20

## A DX REPORT

*W. J. Y. Shenectoday  
General store  
New York*

*Sir*

*I am guide for hunter man wrot come at dis place las - des ille for hunting deer deer hunter man bring it with him machine for her you spark from far place i listen with his sunday nite also tuesday nite i hear song bout my ole moulder date long tam i dont see my moulder an i ting date dame frise song also i hear over song i dont see de man tuesday nite storie for de small boy and girl bout make de star shine for dem if dey is good boy and girl hunter man i luff lak hille an told me ax you how we make some moon shine*

*i hear you spark jus de same lak your at me please i ting you have good machine i listen more nex week*

*thank you and much abtjpl  
jick Camille Porter  
chem P.O. Suite Canada*

hours (it got so hot I had to turn a fan on it) and logged 55 stations. Of course, none is verified yet, but there were two of us listening in and we only gave ourselves credit for a station if we both heard it independently, and we made sure it fitted in with your September lists too.

"I guess my best catch was KGFJ, 100 watts. I also heard the WBBZ police calls, mentioned in RADEX, in between strains of Victor Herbert, Kreisler and Rachmaninoff. I am going to put in new tubes, a good aerial and ground, and have the set thoroughly gone over, so I guess you'll hear from me again."

#### Logging the TP's

"I wrote to RADEX awhile back, telling of my good luck among the Trans-Pacifics, and of the unusually high percentage of verifications," comments M. C. Hesterman, 506 Fourth Ave. No., Saskatoon, Sask. "My verifications now actually do register 100%, as 7ZL, Hobart, Tasmania, have sent me a very fine verification. They completed my list, and that's quite an achievement, isn't it, 100% verification?"

"This DX season I am going to see if the Ollie Ross ground will improve my DXing, though I cannot by any means grumble as things are. Still, a chap is always trying for improvement, that's half the fun in radio. 2UE, in Sydney, broadcast to me at 9:45 p.m., Sydney time, on July 21, and today I received verification of my reception of that date. On the verification they state that they will again try and get through to me, this time at 9:45 p.m. Sydney time, on October 20. Needless to say I shall be there with bells on. By the way, I owe my success in the reception of the Trans-Pacifics to RADEX, as it showed me exactly where to go."

#### Hours of NAA

"I thought you might be interested to know that I got HIJK," contributes Robert M. Musson, 31 Allview Ave., South Norwalk, Conn. "I haven't received any verification yet as I re-



*Adele Ronson, although in her early twenties, has been a frequent performer in radio drama for the past three years. At present with "Buck Rogers in the 25th Century."*

ceived it only on October 1st at about 4:00 a.m. Could you give me any information concerning this rare station?" We are sorry but the information contained in our indices is all that we have. Robert also wants some information about NAA. This station is operated by the United States Navy from Washington, D. C. It broadcasts only the time signals and weather for public reception. The time signals are given from 11:55 a.m. to noon and from 9:55 p.m. to 10:00 EST, on the broadcast band. On the short waves the time is given from 2:55 to 3:00 a.m., 3:55 to 4:00 p.m., 6:55 to 7:00 p.m. and 11:55 to midnight. The weather reports are given daily at 10:10 a.m. and 10:00 p.m. and daily except Sunday and holidays at 3:45 p.m.

"I am using a Majestic 294 12-tube all-wave receiver and have had fair results with it," reports Earl Jackson, Sgt. Detachment Q. M. Cops,

Schofield Barracks, Hawaii. "I am able to hear the following stations with good volume as early as 1:00 p.m. to 9:00 p.m. Honolulu time: KDKA, W1XAF, GSF, VK2ME, J1AA, VE9GW, W3XL, W3XAL and RV15. I am bothered with a fearful noise from the hair clippers in the barber shop in the same building. They oscillate and when they are in use I am compelled to shut off the set. I am also having trouble finding a place for my aerial as the winds here are so strong that at times it is almost impossible to keep an antenna up even by using weights at each end to hold the antenna when the trees sway." On the b. c. band the Sergeant picks up all stations along the West Coast and as far east as New York and Boston.

#### DX In Summer

"On July 27 I bought an RCA Victor radio, five tubes," writes Ray Phillips, 395 Amherst St., Manchester, N. H. "Different people told me that it was no use running the radio in summer, that you could not get much of anything except your local station. On August 10 I bought a RADEX magazine and since then have been what you call DXing. It has been just one month since I started and during that time I have listened to 150 different stations, three of which are in Mexico, several in Canada and one in Porto Rico. The two most distant stations were KFI and KPO. If I can pick up all that at a time when 'there is no use in running your radio,' then I expect to hear many new stations during the winter."

"I started DXing in February and since then I haven't such a big record," confesses August Asor, 1686 State St., New Haven, Conn., "but I think it is very good for the radio I am using. I have six stations in California, three in Mexico, two in Cuba, 18 in Canada, HJN verified in South America, and the rest in different parts of the United States. I have logged a total of 135 stations, 18 of them only 100 watts. It isn't much

of a log compared to some of the ones in RADEX, but I think it pretty good for the radio I have—a Neutrodyne of 1922, 11 years old, and I bought it for only 75c. My antenna is a Lynch type. I will write again when I have verified all my stations."

"Have received 231 stations since last December, including stations in Cuba, Canada and Mexico," reports Lester Hale, 1916 Cleveland Ave., E. St. Louis, Ill. "My best catches are 10-BQ, 10-AB, WEXL and KIEV. These were received on a Model 158 Crosley Suptet. In one night, last winter, I logged 91 stations, which would have been impossible without the help of RADEX. These stations, of course, were not verified, owing to the short length of time each station was heard, being only a few seconds in some cases. However no station was logged until the call letters were distinctly understood. Several other stations were received whose call letters were known, but were not logged because the call letters were not heard."



*Christy Walsh, noted sports authority, is the central figure in the "All-America Football Show" on Fridays at 9:30 p. m. EST. over the CBS.*

"Last season (August 23, 1932, to April 12, 1933) I logged 296 stations from 15 to 150,000 watts," writes Thos. A. FitzGerald, 567 West St., Annapolis, Md., "all but one being North American stations—i.e., YV1BC. I have a Majestic 210, inside aerial, no ground, and am a rather indifferent DXer, because I must keep my staid friends from becoming convinced that dial-twisting is a manifestation of insanity. I have never asked for verifications, but through error I have two or three, for I sometimes write to stations, making tests, for their information, and some have overlooked my statement that I am not seeking a verification."

### Boiled Down

"On the b.c. band I have verified 2CO, 2UE, 2BL, 3HA, 3AR, 4BC, 4RK, 5AD, 5CK, 2YA, 3YA, 4ZW, KGU, HJN, WKAQ, and expecting others," reports J. A. Shanks, Russellville, Tenn. "I logged 2YA in detail 26 times out of 31 last May. The F.R.C. list is great and I have already increased my log with its help. Issue No. 70 certainly is a wonderful help to me in getting T-P's. I am rather proud of all my catches and also very proud of the magazine that helped me to get them. Thanks to RADEX I am a member of I.D.A. and have spent most of my time with this club since I joined."

"I started DXing just two weeks ago," remarks Kenneth C. McCartt, 213 State St., Lexington, Ky. "How's this for a two weeks' log? On the broadcast band: 149 stations on 97 channels and four 'in-betweens'—137 in 36 states in the United States, 6 in three Mexican states, 3 in two Canadian Provinces, 2 in Cuba, and one in Porto Rico. On higher frequencies I have three police radio stations and 14 amateurs. I have a 6-tube TRF Echophone receiver, to which I have attached a one-tube regenerative detector preamplifier that I built myself. It increases the sensitivity and selectivity ten to one hundred times."

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"I am not what you might call a real DXer," admits Harold T. Hammond, Box 111, Marblehead, Mass. "I have the desire but not the time. My duties require a long day so I must do my sleeping when the other boys are listening in. However, in two months' time, listening in only between 10:00 and midnight, excepting Saturdays, when I stay over till 2:00 a.m. Sunday, I picked up 173 stations and have verified 107. I try to pick them up on two different nights before verifying. My best are KFI, KNX, XER, XEPN, XETR, VAS, CMJK, KUSD and CHGS."

### Gets RXKR In Nova Scotia

"Radio reception here has been very good all through the summer," remarks Philip H. Robinson, Shelburne, N. S. "The South Americans have been especially good coming in at least fifteen days a month with from fair to excellent volume. Have

a veri from LR5 for evening of July 17, and from RXKR, for July 1, YV1BC for July 25, all with fair volume. Have also heard Fecamp, France, August 25 and 28; HJN, LT3 and LR2, LR3, LR4, all with good volume, especially the LR's."

"I have only been DXing for the past month," says Donald Reynolds, Newburgh, N. Y., "and find that I have not done so badly with a log of 203 stations in U. S., Canada, Mexico, Cuba and Central America, all worked before midnight. Some of my best catches are 10-AB, KTRH, HIJK, CMCD, CMC, XFB, KFWI, KYA, CJOR, XED, CMCW, HIX. My set is a 5-tube Majestic using a 100-ft. aerial and a ground invention of my own. I wish RADEX was published weekly as I can hardly wait until I get the next issue."

"I am using a Silver Marshall 9-tube superhet, model 36A," advises Jerome Pickard, 324 No. 8th St., Saline, Kans. "On an average night I can receive 85 to 100 stations. Some of my best catches are CFRB, CFCN, CKY, CMAF, KEX, KGO, KECA, KFSD, and a lot of others including several police stations. I would like to hear from someone having the same type set."

"I have been DXing for the last three years and have logged 474 stations," summarizes Edward S. Cope, 36 Vansittart Ave., Woodstock, Ont. "My best are KERN, KFXM, KGFJ, KPCB and HJN. My set is a 7-tube Arcadia made by the Grimes Radio Corp. I would like to hear from other DXers. I have been a reader of RADEX since 1929 and enjoy it very much. It is the best magazine on radio that I have ever read."

"Monday night, September 4, at 11:26 EDST, I pulled in XER while CKAC was going full blast," reports Stanley Brown, Montreal, Que. "I sent a letter to XER, as he announced that he wanted to know how their programs were being received. CKAC's transmitter is located at St. Hyacinthe, about 40 miles southeast of Montreal, but even then that is a



*Gustave Haenschen probably has played for more people than any other conductor on the air. Although he has made but few personal appearances since he was a leader of a local dance orchestra in St. Louis, Gustave has made as many phonograph recordings as any orchestra director on earth and has played for countless broadcasts.*

good 5 kc. separation."

"I cannot understand how anyone can pick up the number of stations given by so many," questions H. J. Wood, Heublein Hotel, Hartford, Conn. "I have stations on every channel from 540 to 1500, except 960, 1340 and 1470, but nothing outside the United States, except Mexico and Porto Rico. I know that some of the receivers on which these reports are made are not remarkable so presume that location must account for the difference."

"My log for the years 1924-31 stood at 490, with many off the air," reminisces Hubert N. Montulet, Eagle Nest, Blue Mtn. Lake, N. Y. "Due to RADEX, NNRC, and an RCA Electrola, with fair headphone attachment, I now have 707, all on the air. Unfortunately I have only 64 verified, but these are all under 250 watts and over 2000 miles."

*(Continued on page 36)*



# Let's CLEAN UP *the* SET

• • • By B. FRANCIS DASHIELL

**L**ET'S get ready for that good winter reception by giving the old receiver a thorough cleaning and overhauling. In another month the cold, north winds will chase static to its southern lair, and we shall want our sets to be in perfect condition for new DX records.

There is not much to wear out in a radio set. Tubes, of course, deteriorate with age, but moving parts, such as condenser shafts and bearings, volume controls and switches, will begin to show some signs of wear after a couple of years. Then, too, the possibility of electrical breakdown in condensers, coils, transformers and resistors, is ever present. But we cannot guard against such potential troubles; we must meet them as they come.

Dirt and dust cause most of the non-mechanical troubles found in a receiver. Loss of sensitivity, poor selectivity, and a general falling off in efficiency usually can be traced to accumulated deposits of dirt and dust.

Most people cannot understand why radio sets are not closed in at the back. Certainly, they argue, this would keep out the dust. We must realize, however, that the rear of the set must remain open for otherwise the sound quality would be badly impaired. And the heat, generated by transformers and tubes, must be permitted to escape readily through the open back of the cabinet.

## Condensers Must Be Clean

Dust quickly gathers between the plates of the tuning condensers. It is not a physical impossibility to enclose condenser units within a tight casing, and we are at a loss why manufacturers have not taken this step. Proper design can in no way interfere with the tuning capacity of the condenser and there would also

be more shielding effect. Dust also covers the insulating support of the stationary, or stator, plates. The slightest leakage of high, or radio-frequency, currents across these dirt-covered surfaces will result in the total loss of some weak, distant signal. And the higher the frequency the greater will be the loss, for it is very difficult to insulate properly against very short waves, even when the surfaces are of the highest quality material. Low-loss insulation always has been of prime importance in radio construction, and certainly dirt and dust cannot help its effectiveness.

First, the chassis must be removed



*Tommy McLaughlin, romantic and robust young baritone, is the featured player of "Threads of Happiness" with Andre Kostelanetz's Orchestra and David Ross, Fridays at 9:15 p. m. EST, over CBS. Tommy is the protégé of that other Irish songster, Morton Downey.*

from its cabinet; this can be accomplished by turning out the four hold-down bolts that pass up through the cabinet floor or its inner self. Disconnect the speaker plug, and also remove the speaker from its baffle-board. If the speaker is attached to the chassis with a soldered cable the two units must be removed together and placed on a table for cleaning.

### Instructions For Cleaning

Now take a brush and dust out the interior of the cabinet. It may be given a coat of shellac if desired. Then, with a clean, soft, camel's-hair brush go carefully over the entire chassis, parts and speaker. Do not injure or press too hard upon the cone of the speaker. Remove all dust from around and between the cone and voice-coil and the surrounding magnet with its fixed field-coil.

A soft cloth, dampened with a good cleansing solution, is used to rub all the parts and surfaces of the chassis. The tube-socket tops must be cleaned, for signal leakage may occur across the flat surface, if covered with a dirt film, and thus between the prongs of the tubes. Polish the chassis and all surfaces with a clean, dry cloth that leaves no fuzz or lint. Get into the out-of-the-way places around the insulating supports and parts of the tuning condensers and polish them carefully. Use a pipe-cleaner between the plates of the condensers. It can be shaped nicely to reach the inaccessible places around the shaft.

Examine the surfaces between the plates with a flash-light and carefully remove any projecting bits of dirt or foreign matter. If the condenser makes contact with the rotating plates by means of friction springs the contacts should be cleaned and brightened. If only the shaft makes contact the bearings must be examined and polished. In most cases, however, continuous contacts are provided for, and then a drop of oil on the bearings will not interfere with the electrical conductivity of the condenser.

### Use Great Care

Great care is exercised in the making of condenser gang-units so that satisfactory and uniform capacities are obtained over the full length of the scale. But, if this arrangement becomes damaged the dial immediately fails to track evenly from end to end. The condenser has everything to do with the manner in which stations will appear on the dial. Adjustment of trimmer or balancing condensers will not correct this fault.

If a condenser is out of balance over part of its scale it is defective. The trouble in nearly every case is due to misalignment of the plates or their being bent out of shape. The obvious remedy is the straightening out of the bad plates. But a very bad injury or defect in condenser plates may call for a complete replacement of the entire gang or unit. If this is deemed necessary be sure to procure an identical unit from the manufacturer. If the capacity is different the entire dial will be thrown off its proper reading, and in severe cases the coils may require changing in order to bring the dial back to its proper tracking.

### The Compensating Condensers

The tiny, balancing condensers, one of which is attached to each of the units of the condenser gang, quickly become detuned when dust accumulates between the leaves. There may be other tiny, trimming condensers scattered about the chassis in different makes of receivers. This dust often accounts for a set becoming hard to tune sharply after it has been in use for some time. Use extreme caution when cleaning these parts so as to not disturb the original adjustment.

We shall not attempt to take up the realigning of a receiver by adjusting its compensating condensers, etc. In nearly every case, particularly superheterodynes, a test oscillator is needed, and we feel, therefore, that the services of a competent serv-

*(Continued on page 85)*

# Simple Remedies for COMPLEX TROUBLES

• • • By the TECHNICAL EDITOR

**P**LEASE tell me whether the -27 tube in my Brunswick model 18 receiver is the oscillator.

The -27 is not the oscillator but is the second detector. One of the -24s is the first detector, and another is the oscillator. The -24 first detector can be located more easily because it is connected to the first tube of the set—the -51 radio frequency tube—by a small fixed condenser that couples the plate of the r. f. -51 tube to the grid of the second detector, -24 tube. The remaining -24 is, therefore, the oscillator.

## About 2-Volt Tubes

*I have an Airline five-tube set and a Fada receiver. Is it practicable for me to change the -01A type tubes over to the two-volt tubes? Please explain what changes will be necessary.*

You have not given the model numbers of these two sets so we are unable to give you definite instructions for the work. But the Fada 5-tube set has four -01A tubes and one -71A power tube, according to our assumption. In this case you can use four -30s in place of the -01As, and a -31 in place of the -71A. The C battery connections will remain the same, and also for the B batteries. But you cannot use the 6-volt battery. A two-volt battery, an Aircell type, must be used. Two dry cells can be utilized, but the three volts will require that a portion of the rheostat be left in the circuit. A voltmeter should be used to determine the position of the knob so that just two volts are applied across the tube filaments when the set is being used.



*Connie Gates, the little songstress from Cleveland, is one of the few one-woman shows in radio. Connie supplies accompaniment to her ballads on the piano. Heard over the CBS network each Tuesday and Thursday at 12:15 p. m. EST.*

## Needs Realignment

*My Zenith model 39-A receiver is not as selective as it was when I first owned it. Can you suggest some manner by which I can bring back its original efficiency?*

The Zenith 39-A receiver is of the tuned-radio-frequency type. Selectivity will be lost through the decreased efficiency of the tubes because of age, wear of condenser shafts, or maladjustments of the variable condensers. Good selectivity can be restored to the receiver by a readjustment of the alignment of the tuning condensers and the replace-

ment of the radio-frequency tubes with new ones. Dust accumulations and moisture tend to lower the operation of the set, and all parts must be carefully cleaned. Gas conduction in any of the r. f. tubes causes poor selectivity. A careful testing of these tubes is indicated.

By far the most important part of the work of restoring the selectivity lies in the proper adjustment of the tuning condensers. Any experienced serviceman should be able to line up these with a modulated oscillator and output meter. Although the mechanical design of the condensers may not permit the direct adjustment of them, the serviceman can improvise a remedy for this. The condenser bearings should be tight and there should be individual adjustment of each tuned circuit for at least 100 kilocycles of the dial. Some times a complete replacement of the condenser gang unit vastly improves the set, especially when adjustments are hard to complete with precision.

#### **Volume Control**

*I get excessive volume on my Sonora set when the volume control is turned all the way down. I tried replacing the synchrotrone modulator tube but with no appreciable effect. What can you suggest?*

It is likely that the ground end of the volume control resistor is open and thus it obtains a series voltage for the control of the screen voltage. The replacement you made was the most obvious place to look for such trouble, and the fact that it did not remedy the trouble proves that the screen control must be at fault. In this case the relatively low value of the volume control resistor will not allow appreciable voltage control at the screens. As soon as the screen circuit is completed by advancing the volume control arm until contact is made the screen voltage is at its maximum, hence the volume is high. Examine and test the resistor; replace it if defective or resolder its connections.

#### **Phones on Lafayette**

*I attached headphones and wafer adapters to the 57 tube of my new Lafayette Economy-Eight receiver. The signals are weak and the tuning is broad and difficult. What is the trouble with the headphone connection?*

The phones should not be connected to the plate of the detector tube—a 57—in this case. Try attaching the wafer adapter to the 56 first audio tube. The detector tuning interference should disappear, and the weak signals will become louder. Or the phones can be connected to the output power tubes so as to obtain all the power of the set. See the February, 1933, issue of RADEX for complete details for all these connections.

#### **No Substitute For A-22**

*I would like to replace the -22 tubes in my receiver. What is the best type to use?*

There is no other type of tube that can be used to replace the -22 tube without making wiring and battery changes in the circuit.

#### **Radio Starting Switch**

*What sort of battery switch must I get to replace the one now on my RCA model 20 receiver?*

If you refer to the snap switch that turns the set on or off, any kind of small radio snap switch will suffice. But if you refer to the volume control with switch at the end of its resistance for cutting the batteries off, you need one having a resistance of 15 ohms. By control in this case we mean the filament resistance.

#### **Radex Converter and Philco**

*Please tell me how to attach the new RADEX converter for short waves to my Philco 15X which uses 6.3-volt tubes.*

The wafer adapter to take the filament current can be placed beneath any tube of the set. In your case we suggest using the -44 or -37 type tubes, which take 6.3 volts. It will

be necessary to connect the filaments of the two converter tubes in series, instead of parallel, in order to consume the additional voltage without burning out the tubes. Or you can connect the converter as shown in our diagram after placing a 4-ohm resistance in series with one of the filament leads from the wafer adapter.

The 180-volt connection to the plate of the converter may be taken from the plate terminal of the -44 screen-grid radio-frequency tube by using a 5-hole wafer adapter having the plate contact only.

### Short Wave Coils

*I have some Silver-Marshall plug-in coils. Can I use them to replace the coils in my Midwest short-wave converter?*

We do not recommend that you attempt to change the coils of the Midwest for the plug-in coils on hand. The set is made and designed for the type of coil arrangement used. To change the coils calls for changes in design and connections, all of which would be impracticable. The converter you have is also efficient, and the dead-end losses in the coils is very slight. Also, your plug-in coils will not replace the fixed coils in the converter due to their windings being different. The oscillator in the converter requires a special type of winding, which cannot be replaced with plug-in coils.

### New Majestic Tubes

*How can I improve my Majestic 20 by using the newer Majestic tubes that have appeared since the receiver came on the market?*

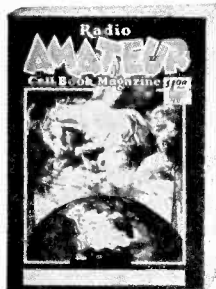
In your set the G-51 may be replaced with G-58-S by using a special adapter and connecting the cathode and additional screen together (which wiring is accomplished in the adapter). This tube, which is to be replaced, is the radio-frequency amplifier. Do not replace the G-27 oscillator with a G-56, nor the G-51 first detector nor the G-51 intermediate frequency with G-58-S types. However,

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the second detector (G-27) may be replaced with a G-56, without an adapter being necessary. No changes are recommended in the power stages or rectifier -80 type tube.

### Tubes In RCA 66

*If I substitute the 50 series of tubes in my RCA 66 set for present tubes will I get better results?*

We do not believe that any material results will be had by replacing your older tubes with newer types, except in the r.f. end. This tube, a -27, which is at the extreme end of the row of tubes, may be replaced with a 56. In the power end the -45 type may be replaced with a -47 pentode by using an adapter.

### Tube Changes In Victor

*Please tell me whether new tubes in my Victor RE-57 will work better than the old tubes and improve its performance.*

The only tube in this receiver which is comparable to any of the newer

types is the -27 detector. All the r.f. tubes are -26s, which are not replaceable. You can insert a 56 in place of the -27 detector and we think the results will be pleasing. Have all the -26s tested and replaced if old and worn out. Dusting and cleaning an old set also works wonders in its operation. Clean between the plates of the variable condensers with an ordinary pipe cleaner.

### Receiver Oscillates

*Recently my RCA 46 receiver began to oscillate badly and spoil reception. It broadened the tuning so I had it aligned again, but without good results.*

The usual cause for oscillation in this receiver is an open screen bypass condenser in either or both of the radio-frequency stages. Also, sometimes the volume control resistor will break or open at the ground or cathode end. This is often accompanied by increased sensitivity until oscillation sets in with poor control of volume. If the control of the volume is just as usual we believe you will likely find the trouble in the screen-grid bypass condensers.

### Set Changes Its Tone

*My Atwater Kent set, model 89, runs for several hours and then a hollow, tinny and blurred tone is taken on. What can I do to remedy the trouble?*

The trouble you mention can be traced to a faulty resistor in the audio system. It is not always possible to localize this resistor because a defect in one of six or eight resistors would have this effect. We suggest first testing the second detector plate resistors under operating conditions, and then the first audio series plate resistor. The grid resistors for the first audio frequency stage as well as the detector and first audio cathode resistors may be defective.

The resistors must be tested after the fault has developed in the resistor as they will show no defect otherwise. In some rare cases the center tap of

the inter-audio transformer will open from ground and block the power tubes, thus having a similar effect. It is indicated that some resistor temporarily breaks down after a period of perfect operation, assuming a very high value reaching normal value only when it becomes cool and inoperative.

### Philco 470 Control

*What volume control is used on my Philco 470? I notice that when automobiles pass my home they set up interference in my short wave receiver, but when the cars turn into a side street they seem to be practically silent. Why is this?*

Your set, the Philco 470, is a combination broadcast and short wave outfit, uses a dual type volume control. It is a high resistance type, and is given part number 5039 by the Philco makers. Order a new one by the number given.

The interference noted in your short-wave combination when automobiles pass the house is commonly experienced by short wave listeners. The sparking of the motors sets up static waves which do not carry far. When the cars turn into a side street it is likely that they keep farther from your antenna and can not be heard.

### Majestic Tube Renewals

*How can I improve the quality of reception on my Majestic model 90 receiver by substituting some of the newer 50 series of tubes for the ones now in use?*

All four of the radio-frequency tubes in your set, which are -27s, may be replaced with 56s without the need of tube adapters. However, some readjustment of the trimmer condensers that are attached to each unit of the four radio-frequency tuning condensers may be necessary in order to rebalance the circuits for the new characteristics of the 56 tubes. The use of a 56 for the -27 detector tube may not give as good results unless the adjustments are very carefully made.

# LATEST NEWS *of the* Short Wave WORLD

• • • *By* PAGE TAYLOR

**M**OST of our readers will no doubt be interested in knowing that two seldom-heard stations will transmit special programs during this month. Mr. Charles A. Morrison, President of the International DX'ers Alliance, Bloomington, Ill., advises us that Station CT3AQ, Funchal, Madeira, will address a program to members of the IDA on Nov. 1st from 2 to 3 am, EST, or 0700 to 0800, GMT. CT3AQ will work on 26.83 meters, which is equivalent to 11,174 kc/s. Their address is Thiago d'Aguiar, Funchal, Maderia Islands.

Another interesting and hard-to-get station is EAR58, Santa Cruz de Tenerife, Canary Islands. This station will broadcast a program for the IDA on November 19 on 41.6 meters (7,207 kc/s) from 2 to 4 am, EST, or 0700-0900, GMT. Reports on reception of this transmission can be sent to the Radio Club de Tenerife.

## From Asia

RADEX is further indebted to Mr. Morrison for the following items: The Public Works Department of Hong Kong Colony operates two commercial s. w. stations, the Cape D'Aguiar Wireless Station VPS and the Victoria Peak Station, ZBW. VPS works on 28.2 and 50.2 meters, while ZBW uses wavelengths of 34.68 and 50.2 meters. CQH is the call used by the Portuguese Government station at Macao, which offers telephone service on 50 meters, with 1 KW power.

Gramophone recordings, news and stock quotations are featured in the programs of the Malayan Amateur Radio Society over their station ZGE at Kuala Lumpur. ZGE is on the air

on Sundays, Tuesdays and Fridays from 6:40 to 8:40 am, EST, on 48.92 meters with 180 watts power. This station is heard occasionally in this country at the present time.

## From Central America

According to Mr. Morrison, the Nassau, Bahamas, telephone station is ZFS instead of VPN. ZFS works with WND, Miami, on 66.43 meters, and is used for broadcasting hurricane warnings frequently at 10:30 am and pm, EST.

Reception of transmissions of the airways stations is the favorite pastime of many short wave fans, so this month RADEX presents, for their convenience, a complete list of the



*Alexander Woollcott, journalist, dramatic critic and playwright, now known as the "Town Crier," is heard each Wednesday and Friday at 10:30 p. m. EST, over the CBS.*

United States Airport stations. Due to the large number of frequencies used by these stations, and the fact that each one uses several different frequencies, it is necessary to designate each one by a key number. Comments from readers concerning this arrangement will be appreciated.

Evidently the Republic of Panama has changed its prefix. G. W. Burns, of Cincinnati, Ohio, tells us of hearing a station HTF in Panama City working with WNC, Miami. Mr. Burns believes HTF is a new call for RXF as the wavelengths used are the same. He also reports reception of CAU, a new Chilean station at Santiago, likewise working with WNC. No frequency was mentioned for this station.

#### From Russia

The Radio Friends of the Soviet Union, Moscow, Warwarka, Ipatyewski Per 14, C. D. R., USSR have sent us a list of the Soviet commercial stations using voice. No doubt this list will clear up a few "mystery" stations for some of our readers. RAU, 19.85 meters, located at Tashkent; RDA, Odessa, 45 meters; RIM, Tashkent, 39.34 and 19.67 meters; RIS, Tiflis, 43.64 m.; RJY, Sinelorkovo, 53.57 m.; RJZ, Tiouvaiskoe, 50.9 m.; RKL, Moscow, 39.89 and 19.95 m.; RKS, Irkutsk, 24 meters; RPK, Moscow, 41.5 and 20.76; RRH, Tashkent, 30.4 and 16.73; and RRLY, Irkutsk, 30.2 and 16.1 meters.

"Kindly accept my apologies in regard to information I recently sent concerning HBL and HBP," postcards I. Beitman, 249 Gates Ave., Elyria, Ohio. "I previously stated these stations were on the air from 11 to 11:45 pm, Central European Time. The official time for these stations is, Saturday afternoons, Eastern Standard Time, 5:30 to 5:45 in English; 5:45 to 6 pm in French and 6 until 6:15 in Spanish."

#### From Europe

Unusually good reception of European stations is reported by one of our Official Auditors in Brooklyn.

N. Y., Arthur C. Gluck, 295 Clinton Ave. He writes: "Short wave stations are coming in better than ever at this time of year. At least that has been my experience as far as European stations are concerned. I use the latest model Comet Pro and it is no trick at all to pick up stations in Europe daily with such volume that the volume control must be turned low. GSG, Daventry on 16.88 meters is best from 8 to 9 am, EST. DJD, Germany, on 19.73 meters is the most powerful station in the 19-meter band. They broadcast a special program for North American listeners each morning from 9 to 11 am. A directional antenna is used, which probably explains why this station is received so strongly. HVJ, 19.84 meters, Vatican City, is heard from 10 to 10:30 am with a powerful signal; they can be picked up easily just below GSF. PHI, Holland, is generally heard on Sunday mornings between 9 and 10, EST, on 16.88 meters. Announcements are made in several languages by their versatile announcer, Mr. Edward Startz. At times PHI broadcasts the siren and bells of a fire engine. In the afternoons the best stations, and the time their signals are the strongest, are, DJB, noon to 2 pm; DJD, 1 to 3 pm; GSE, 1 to 2 pm, and GSD, 1 to 3 pm."

#### From South America

Several readers report very good reception of the new Bolivian station, CP5 of LaPaz. One of these reporters is our Official Auditor, R. W. Evans, 832 Richie Ave., Lima, Ohio, who heard CP5 on 5070 kc/s near 9:30-10 pm, EST. Other information contributed by this correspondent follows: "YV3BC in Caracas, Venezuela, has changed the frequency to about 6160 kc/s and is heard here very well after 5:30 pm. TGW is received fairly well on about 6180 kc/s. HVJ on 15.110 megs. is heard with fair volume from 10 to 10:30 am. VE9DR has changed frequency to about 6060 kc/s."



Cincinnati, Ohio, seems to be favorably located for s. w. reception, judging by the letters received from our Auditor in that city, Geo. W. Burns, of 2466 Wahl Terrace. He says that the Germans are "rather regular, DJB being heard in the morning and after 3:30 pm, QSA5, R8, and DJD coming in after 4 pm, QSA4, R7. Neither of these two is heard at all well between noon and 3 pm. By far the best stations are GSD (on the African and West African programs between 3 and 5:30 pm), and EAQ after 6:15 pm. Strange to say, GSD averages QSA5, R9 on the African program but usually fades out after 6:15 on the Canadian program. Even so, the GSB-GSD arrangement for the Canadian program is the best so far. EAQ is only about QSA2, R4 on the Saturday afternoon transmissions."

HJ4ABB, Manizales, Colombia, 41.6 meters, has changed its schedule so that it is now heard quite often between 9 and 10 pm, EST. This is the well-known amateur broadcaster, Sr. Roberto Baena V. of Apartado 175, who is anxious to have letters about his transmissions and who always acknowledges correct reports.

### From Japan

It seems that short wave reception in Japan differs but very little from reception here, judging from a letter received from Mr. Shokichi Yoshimura of Moji. Mr. Yoshimura writes as follows: "Now short wave reception is slightly noisy and weak, owing to the altered ionization here, so PHI, Pontoise and GSG come in a poor condition, however, I was fortunate to report that, since May to date I have received a number of verifications from WIXAZ, W8XX, W3XAL, GSC, GSD, DJD, HBL, GAA, PCV, SUV, ORK, ZGE and KAY and am now awaiting for veries from IAC, IBEI, LSY, etc. There follow some particulars of the new Bandoeng station, PKIWK. It is owned and operated by J. F. W. de Kort, Bragaweg 34, Bandoeng, Java.



*Milton Berle, Fred Waring and Harry Richman—left to right, respectively, the trio of headliners whose talents, among others, are combined on the CBS "Old Gold" program Wednesdays at 10:00 p. m. EST.*

It works on 49.02 meters, although the wave is given as 49.02 it appears to me to be nearer to 49.5. They work every day from 4 to 6 am and 7:30 to 8:30 am, EST."

### How to Identify

Last May we printed an article for s. w. beginners in which a few tips were given to aid in the identification of overseas stations. In response to several requests, and for the benefit of new comers, some of these tips are repeated here, with a few additions:

LSX announces "Ellay essay eckay, Transradio, Buenos Aires."

I2RO has a lady announcer who says, "Radio Roma-Napoli."

TI4NRH uses bugle calls between selections.

YV1BC announces "Yay vay uno bay say, Broadcasting Caracas, la habla a la nacion."

HJ1ABB announces "La Voz de

Barranquilla."

HJ4ABB plays "Just a Gigolo" as a theme song.

HJ4ABE says, "Achay hota quatro ah bay ay, Medellin, Colombia."

XETE announces in English and signs off with "L'amour, Toujours, L'amour."

The German stations have a series of ten notes played over ten times on a piano, at ten second intervals.

Pontoise commences and closes their programs with "La Marseillaise."

OXY broadcasts chimes at 6 pm, EST (Midnight in Copenhagen).

CT1AA uses a cuckoo call repeated three times.

HVJ announces "Radio-Vatican."

### VE9HX

The correct operating schedule of VE9HX has been received from Mr. William C. Borrett, the Managing Director of the station. VE9HX is now working on 6110 kilocycles under instructions from the Canadian Radio Commission, daily from 6 pm to midnight, Atlantic Standard Time. Mr. Borrett says they are receiving a large volume of mail daily about reception of their station from the Eastern States and as far west as Illinois. The address, The Maritime Broadcasting Co., Ltd., P. O. Box 998, Halifax, Nova Scotia.

### T14NRH

The schedule of T14NRH has been altered again, according to information received from its owner, Sr. Cespedes. He writes that, due to heavy interference in the 30-meter band in the early evening, he has changed his schedule to 10 to 11 pm, EST.

An interesting although incomplete letter was received from a reader in Russellville, Tenn., who failed to sign his name. This unknown correspondent uses a 16-tube Midwest All-Wave receiver on which he has verified reception of the two Australian short wavers, seven of the Empire station wavelengths, the four German broadcasters, EAQ,

HJ2ABA, NRH, HJ4ABB, CT1AA and many other stations, every continent except Africa being included in his log. "I also get Pontoise on 25.6 meters for their late program," he writes. "RV15, Kharbarovsk, Siberia, has been fairly good on 70.65 meters but at times rapid fading develops."

Answering his (or her) questions, VP5—is the prefix for Jamaican stations. Y5U and Y9FZ cannot be located.

### A New Member

"Well, I have joined your list of s. w. fans at last," confesses James Owen, 1019 W. Webster, Springfield, Mo. "Last week I purchased a U. S. Apex Converter, 3 tubes, and connected it to my 8-tube Philco and so far am entirely satisfied with the results. To date I have logged W8XK on three frequencies, HJB talking to WNC, and EAQ. Last night EAQ was received with perfect clarity, and, by the way, anyone who hasn't verified this station as yet should tune in on their programs, which come in fine every evening without exception. They are transmitting programs for the International Broadcasting Co., which seems to be an English concern, and close these programs with a selection that sounds like 'Taps.' VK2ME last Sunday morning was quite good from 4 to 4:30 am, CST, and VK3ME this morning was very good volume from 4:45 until 5 am."

### Some Short Reports

"I received most of my short wave stations by tuning for them at the hours given in RADEX and also find that the lower bands are best in the early daytime and the higher ones best at night," comments Robert L. Weber, West McHenry, Ill. "The short waves have been very good to me, for I have XETE, YV1BC, YV3BC, PRADO, HC2RL, Pontoise, 2RO, GSB, D and F, EAQ, PHI, DJB and D and VK3ME. I will be willing to write any DX fan who would like

to correspond. I use a Midwest 8-tube all-wave set."

Ray La Rocque, 135 Highland St., Worcester, Mass., Chairman of the Courtesy Program Committee of the New England Radio Club, tells us that W3XL, 46.69 meters, now relays the programs of WJZ on Friday nights from 5 pm until 1 am, EST.

Willard D. Cook, R. F. D. No. 1, Woonsocket, R. I., asks if our readers can identify a strange station he heard near 29 meters. He says it begins to come in well at 8 pm and continues at fair volume until 11 pm. Mr. Cook would like to hear from other fans; he uses a Montgomery-Ward s. w. converter.

#### From Our Auditors

"Reception the first week in September was quite good and I was in hopes the past two months of unearthly noises were past but we had a severe storm and since that time . . . well, the wife says 'Cut out the short wave, it's terrible!' complains E. N. Luken, Auditor in Marshall, Minn. Thought I would mention that although XDA is a phoner and about all they do is test, nevertheless they put on some wonderful programs about 7:30 pm CST every night. They come in fine and certainly sound good. About like XETE when putting on a good program, and there is a real station to stay tuned in on. I notice EAQ is doing a lot of English speaking and that should make them more popular than ever. I haven't picked up Pontoise in the evenings yet, in fact, didn't even know they were on evenings until reading September RADEX. I still don't believe they will come in as good as days."

Clarence Sargent, 18 Clinton St., Dansville, N. Y., includes the following information with his regular report as an Official Auditor. "YV3BC on 48.87 meters has been QSA5, R9 for the past two weeks. HBL-HBP, the League of Nations stations, now work on Saturdays instead of Sundays, from 5:30 to 6:15 pm. LSX, Buenos Aires, 28.98 meters broad-

casts music irregularly from 8-9 pm, EST."

The Official Auditor for the Province of Ontario, E. C. Houlgate, 351 Adelaide St., London, contributes the information that CT1AA on 31.25 meters was heard with very good strength during the entire broadcast, from 5 to 7 pm. on two occasions. "The program was quite distorted," he adds. "The transmitter sounds very much as if the speech amplifier is being badly overloaded. HJ3ABD on 40.5 meters is heard quite well nearly any evening. They are usually on the air until around 11:15 pm."

From our Los Angeles Auditor, Stuart Walmsley, 1316 West 58 Place, we have a report in which he writes, "EAQ last week was about an R7 but during the week they have decreased to no more than a faint carrier. During the summer this station can generally be counted on as a fairly consistent performer here on the Pacific Coast. VK2ME on their Saturday night broadcast comes through here at about R6 and are that consistent nearly all the time. Regarding the German stations, I



*Radio's famed piano team, Ohman and Arden, on the NBC Red at 9:30 p. m. Sunday and at other times.*

have never played them. I would like to hear one once. My receiver is a Patterson All-Wave set, manufactured here in Los Angeles."

"DJB Germany comes on at 7 am CST and with short intermissions is on all the forenoon and part of the afternoon," advises S. H. Lawrence, 308 Booth St., Anamosa, Iowa. "During intermissions ten notes are sounded on a piano with about ten seconds in between. It comes in best during the early part of the day. I pick them up easily on the loud-speaker. They give world news from 8 to 8:15 in German and from 8:15 to 8:30 in English, CST."

"Reception has been the most disappointing we have had for a long time but it is storming now and maybe the air will clear and reception improve," concludes C. R. Anderson, 1026 1st St., N. E., Mason City, Iowa. "Nothing much new to write about only there is a new Mexican, not XETE, on about 27.58 meters, a powerful station at 5:45 pm CST, testing; thus far I have not been able to catch the call as all the announcing has been in Spanish. EAQ was received one evening with volume and clearness never before experienced; one could hear the operators in the studio talking in the background, and it was possible to hear the needle start in the record grooves. VE9JR is received here as a local but in spite of their schedule we only catch them around 10:30 am, reading market reports, and in the evenings around 7 pm; might be skip as I'm bothered with it a lot."

"Short wave fans should listen on the 40-meter band after midnight," suggests Official Auditor C. E. Gates, 514 Ivy St., Pittsburgh, Pa. "There are often interesting South and Central American amateur phone stations on around 1 and 2 am. Outstanding are HC1FG, X1Q and X1G. The DJ's have been coming in with fine clarity, but not much volume. They have been the most consistent of the Europeans, even better than EAQ, which was the star station last year.

I2R0 has been just fair, while Pon-toise has been very poor. YVQ has been coming in good of late, around 2-3 pm."

W. T. R. Morris, Jr., Official Auditor, 3219 Garland Ave., Richmond, Va., says he has heard the Alaskan phones recently, usually late in the evenings, and continues, "I have been spending right much time away from dear ole Richmond lately and have not been able to jot down much info on the short wave situation. However, I am back now and ready for a long winter of good s. w. reception. For the past few weeks I don't think I have ever experienced such terrible reception before. It has been absolutely rotten. DJD, my old daytime standby, has been failing here lately, as have GSA and GSB. Today was the first real reception I've had in weeks but it was nothing to brag about. DJD came pounding in here about 11:30 am and was a pretty good signal until 2 pm, then it sorta dwindled away. I think, except for DJD, the static was the loudest signal on the air. The after-6pm-stations seem to never weaken. YV1BC and LSN were pounding in here at 7-9 pm. CT1AA seems to be a pretty good signal when he's on the air, but this is around 5-6 pm and the daytime noises have not yet faded away."

This information regarding the new short wave station HC2RL comes to us from Mel Johnston, 1290 Lafayette Ave., New York City: HS2RL is located in Guyaquil, Ecuador, on the west coast of South America (Mail address, P. O. Box 759). It broadcasts on 45 meters and is on the air every Sunday from 5:45 to 7:45 p.m. and every Tuesday from 9:15 to 11:15 p.m. The announcements are in Spanish and English and the sign-off is a march. Letters are welcomed by the station and replies and verifications are sent out at once. Mr. Johnston reports the station coming in with great signal strength, good modulation and slight fading.

# MY EXPERIENCE

## *with the JO Stations*

• • • *By A. R. CALOW\**

I FIND the Japanese stations very easy to tune in (when conditions are favorable, of course) and I have had as many as 14 and 15 several nights recently while six or eight is a common occurrence. But getting the right "dope" for verification purposes is not so easy.

I find their programs mostly of an uninteresting character but have heard, at times, some excellent music both vocal and instrumental also lectures, news reports, etc., in English but I have not bothered to use this as the basis for verification because such programs are usually on a network of several stations. I did, however, write to JOHK last October reporting a lecture in English which I heard clearly for more than thirty minutes, and in January I received an illustrated booklet containing information about JOHK and other Japanese stations but it wasn't a real verification.

It is not necessary for Pacific Coast fans to sit up all night trying to identify the Japs; the best time to do this is when they sign off as they give their call letters clearly in English then. They sign off at about 10:00 p. m. Japan Time which is 5 a. m. PST. It has been my recent experience that they can be heard best at signing-off time without interference from U. S. early-morning stations during March and April because any of these that were coming through from the East or mid-West had already faded out before 5 a. m. PST owing, I presume, to the effects of daylight at the transmission end, but there is still darkness over the Pacific Ocean and the Japs are still coming in. (No doubt similar conditions obtain in the fall months of September and October—I intend to try that next fall.)

I have also found by recent experiments in tuning them in from 4:45 to

5 a. m. PST that they do not always sign off at exactly 5 a. m. PST (10 p. m. Japan Time) neither do they all sign off at exactly the same time but vary sometimes from five to ten minutes and therefore it is possible (providing one is lucky enough to strike the right ones at the right time) to catch several of them and hear the call letters in English as they sign off. They commence to sign off any minute from about 4:50 to 5 a. m. PST. The following will illustrate what I mean and what can be done:

Monday, April 10th, 1933, I tuned in 10 Japs about 4:35 a. m. PST. JOAK on 870 kcs. gave his call in English at 4:52 and left the air at once. JOFK on 850 kcs. did likewise at 4:51.

Tuesday, April 11th, about the same number were heard clearly at 4:45. JOIK on 830 kcs. gave his call in English at 4:52 and immediately signed off. JOQK, a 500-watter on 920 kcs. followed at 4:56; JOAK on 870 kcs., at 4:57; and JOHK loud and clear on 770 kcs. at 4:59.

Saturday, April 15th, the sign-off in English was as follows: JOBK at 5:01, JOIK at 5:02 and JOHK at 5:08. Sometimes the Jap stations put on test programs after the regular broadcasting hours.

### **Japs do Test**

Saturday, March 18th, from 5:50 to 6:10 a. m. PST (daybreak) I picked up JOFK testing on 850 kcs. with musical selections. I sent in a report and on April 24th, I received a real verification:

"We are very much pleased to hear that you have received our waves on the 18th March and beg to verify with much interest that your receptions are all entirely correct. We were

making the test of our waves radiated from this station at that time. Hoping to hear again

Sincerely yours,  
K. Akana, Program Dept.,  
JOFK, Hiroshima."

This verification proves that the Japs do put on test programs after the regular broadcasting hours are over and DXers should watch for them and get them verified.

I started DXing in March, 1932, after reading your article entitled "What Do You Mean DX?" in No. 57 RADEX. Since that time I have positively identified by call letters nearly 300 stations with 230 verified including the following Australians: 3LO, 4QG, 2UE, 5CK, 2CO and 3AR. I am also expecting verifications from 4BC and 4BH. Others heard include 4RK, 2BL and 4TO. My most consistent "down under" stations are 2YA and 5CK which I hear best from 4:30 to 5:30 a. m. PST. I seem to be able to get these two very easily especially 5CK. His time is: weekdays 11 p. m. Adelaide Time (Zone 45 on the RADEX Time Converter) Saturdays 11:30 p. m., Sunday 10 p. m. I have heard him close down at these times.

5CK usually broadcasts a program of phonograph recordings of popular dance tunes from 5 to 5:30 a. m. PST and then broadcasts the "11 o'clock close-down" as he calls it; this is eleven strokes on the gong, followed by "God Save the King" and he is gone at exactly 5:30 a. m. PST. He sends out a very nice verification card.

My receiver is a 1932 Victor R-20 10-tube super-het and I use loud-speaker only. I would appreciate hearing from any RADEX readers who use this same receiver and will answer all letters received.

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\*1290 19th Ave. East, Vancouver, B. C.

*Mr. Dashiell will discuss the proper methods of attaching microphones and phonograph pick-ups, in an early issue.*

## Those Elusive Stations

*(Continued from page 22)*

### Some DX Tips

So many of our readers have failed in their attempts to log CKY at Winnipeg, Manitoba, that they will be interested in this report from G. E. Jacques, 235 Greeley Ave., Hornell, N. Y. "I do not know if you will call this DX or not but, on the advice of a friend who had heard them on their new frequency, I have heard CKY every night (or rather morning) since August 31st to this date (Sept. 20th). They leave the air at 12:45 a.m. EST. They have a lady announcer who says: 'This is the Canadian Radio Commission station . . . ' a pause and then a man says CKY."

Ralph H. Schiller, President of the Transcontinental Radio DX Club, Hawthorne, N. J., sends us a list of seven b.c. and one short-wave station which will have special DX programs for that club in November. These are being entered in our DX Calendar. We appreciate this sort of cooperation from the DX clubs as it helps us give all of them a big calendar in place of each club having a small one of its own.

Short wave station W1EXZ will broadcast last minute DX tips for the Transcontinental Radio DX Club every Monday night from 7:00 to 7:30 EST on 1750 kcs. Short wave listeners may also try for CP5, La Paz, Bolivia, on Monday morning, November 27th, from 3:30 to 4:30 a.m. EST when that station will carry the DX program of its sister CP4 for the International DXers Alliance.

### From the Stations

From Station KGU, Honolulu, Hawaii: "We would be happy to have your magazine include a short news item saying that KGU in Honolulu will gladly acknowledge all authentic reports of reception with our card and colored stamp. We ask only that the DXer include a U. S. 3c stamp. During the winter months we believe

our programs can be heard at a good many points throughout the United States just as they were throughout New Zealand and Australia during the summer months. Once or twice during the winter we will be glad to put on special programs for DX listeners, using native Hawaiian talent." We have assured KGU that our readers will anxiously await notice of the special DX programs as KGU is still unlogged by many a DXer.

A number of readers have reported hearing WHB of Kansas City on 1120 kcs. instead of the 860 listed in this magazine. A letter to the above station brings a reply which reads: "We are operating experimentally from midnight to 1:00 a.m. CST on 1120 kcs. Our daytime frequency remains the same—860 kcs. Our test programs on 1120 are authorized until Sept. 30th. It is likely that the period will be extended for an additional 90 days or until December 30th."

"Our local stations are being shifted all over the dial to accommodate a new direction-finder and marine commercial station being erected here," advises C. L. Parkins of Station VOKW, St. John's, Nfld. "My license is for 100 watts on 1300 kcs. Just now I am on 1085 with about 7½ watts. VOKW is being rebuilt and will be finished about the end of October. At that time I will gladly give you any information you require re VOKW. As for DX programs, I do not transmit regular ones but may be able to arrange an occasional one if you so desire."

"We wish to announce to the DX listeners," states A. D. Cervantes, Manager of CMCW at Havana, Cuba, "that we will give special and prompt attention to every DX report coming to us in the next season. We have organized a DX department which will handle all correspondence. At the same time we wish to apologize to any DX listeners that received our verifications late last year. A censorship by the last Government caused a large number of our letters to be lost."



*The Revelers, famous harmony group, whose voices are heard over NBC. Left to right they are James Melton, first tenor; Elliott Shaw, baritone; Lewis James, second tenor; Frank Black, arranger and accompanist, and Wilfred Glenn, bass. Black is also general musical director of NBC.*

"Station WCBM, Baltimore, on 1370, is cooperating with the Newark News Radio Club in broadcasting tips weekly, on Thursday nights at midnight EST," advises Robert Emory Base, 4105 Alto Road, Windsor Hills, Baltimore.

### Some Club News

And still another DX club to add to the roster—the National Radio Club of York, Penna. "The purpose of the club is to stimulate an interest in DXing and to pass on DX tips to those interested in receiving them," says Robert H. Weaver, president, whose address is 603 West Market Street, York. "We send out weekly tips and other information. The cost of joining this club is \$1.25 per year. We are planning a gigantic series of broadcasts to take place Friday and Saturday mornings, October 14th and 15th. More than 125 stations have been written asking them to join."

Mr. Weaver sends us a list of four special DX programs which the club has arranged and which are being incorporated in this month's DX Calendar.

Keith L. Freas, 73 Delwood Road, Kenmore, N. Y., writes us that the Buffalo Evening News DX Club of which he has been Secretary, has disbanded and that he has been ap-

pointed to a position in the new National Radio Club at York, Pa. The popular "Singleton and Eliminator" device of the BENDXC will be continued by the new club.

## The DX CONTEST for FOREIGN Stations

**D**ETAILS regarding the DX contest of the International DXers' Alliance of Bloomington, Illinois, are now available. The contest will begin on October 1, 1933, and end at midnight, CST, March 31, 1934. Only verifications of reception during this period will be counted. All verifications must be in the hands of the contest judges for inspection not later than midnight, CST, June 31, 1934.

Verifications must be from stations at least 2000 miles distant and no stations will be counted that are located in the same continent as the contestant. The continents, of course, are North America, South America, Europe, Africa, Asia and Oceania. Stations located on islands more than 2000 miles distant from point of reception will be counted regardless of continent. In exceptional reception localities, the eligibility of stations may be subject to special ruling by the judges.

All verifications must be approved by one of the contest judges. In sending verifications to the judges, return postage must be included. In case of the indecision of a contest judge as to the eligibility or authenticity of any veri, the case will be referred to the Honorary Judges for final decision.

### List of Awards

The Grand Award for the greatest number of verifications from stations on the broadcast band (540 to 1510 kes.) is a 1934 model, custom-built, all-wave deluxe Lincoln Radio Receiver which has been donated by the Lincoln Radio Corp. of Chicago.

Second Award, the famous Ollie

Ross aerial-ground combination, donated by Mr. Ross.

Third Award, a large, handsome world wall map.

Special Award, the Frank Johnson award for the most unusual single verification will be a subscription to RADEX.

Second Special Award, a Reeks sliding scale time converter.

Additional awards will be made to contestants in Oceania, Europe and North America.

The contest judges are Frank A. Johnson, 59 West 66th St., Chicago, Ill., F. H. A. Barnett, 5 Chapman St., Anderston, Dunedin, New Zealand, and Francis Wiseman, 90 Brighton Grove, Newcastle-on-Tyne, England.

The Honory Judges are W. H. Hollister, President of the Lincoln Radio Corp., 329 South Wood St., Chicago; S. Gordon Taylor, Technical Editor, Radio News, 222 West 39th St., New York, and Fred C. Butler, Editor of RADEX, Hanna Building, Cleveland.

## Good Advice to DXers

**T**HE following letter from KVI, Tacoma, applies to all other stations and readers who want their report verified promptly would do well to follow the suggestions:

The writer would be very pleased to have you print the remainder of this letter in your DX section of RADEX; next issue, if possible:

Effective immediately, this station, KVI, will positively verify every report sent in. The writer, one of the announcing staff, and himself an ardent DXer, knows the feelings of the DXer, who, logging a station which he considers a good catch, cannot get it verified.

However, when sending in information to be verified, do not send in numbers and announcements given on Columbia chain programs, as it is not possible to verify these. They may be heard on any one of dozens of other stations. It is suggested that the name of the sponsor of local



spot announcements given on the 15-minute cuts, be given, as these are sure proof.

Another suggestion for those who find it hard to break through to the Pacific Coast on the 570 kc. channel, is that they listen in at midnight, PST, for our sign-off.

If you already have KVI verified, please do not overwhelm me with letters, but those of you who haven't, will not be disappointed. We do not handle stamps, but will verify by letter or card.

You will also be advised, through this magazine, and through the various radio clubs, of the starting date of a series of weekly DX broadcasts, which the writer is planning, to run regularly throughout the winter.

## A LETTER for GERMAN Stations

OUR readers report that their chances of receiving verifications of their reports are greatly increased when their letters are in the language of the station. In the March, 1933, issue of this magazine (No. 67) we gave a model report in the Spanish language and last month (No. 72) the same letter appeared in French. We now give below the same letter in the German language through the courtesy of one of our good friends, Rudolph Kure, of Cincinnati. For the English translation, see the March issue above referred to.

(German translation)

Chefingenieur  
Rundfunkstation (Call)  
(City and Country)  
Sehr geehrter Herr!

Ich habe gerade das grosse Vergnuegen gehabt Ihren Sender (Call) an \_\_\_\_\_ Kc. zu hoeren und erlaube mir Ihnen im nachfolgenden Verzeichnis etliche Stuecke wiederzugeben denen ich zuhoerte. Wollen Sie die Guete haben dieses Verzeichnis zu pruefen, mit Ihrer Senderliste zu verglei-

chen und mir gefl. meinen Empfang Ihres Senders zu beglaubigen?

1. Orchester-Nummer
2. Pianoforte-Nummer
3. Violin-Nummer
4. Orgel-Nummer
5. Marimba-Nummer
6. Ziehharmonika-Nummer
7. Gesangsolo (Herr)
8. Gesangsolo (Dame)
9. Chorgesang
10. Klassische Musik
11. Kolkstuemliche Musik
12. Heimische Musik
13. Tanzmusik
14. Fox-Trot
15. Marsch
16. Walzer
17. Gespraech
18. Senderankuendigungen
19. Empfangsstaerke—schwach
20. Empfangsstaerke—gut
21. Empfangsstaerke—stark
22. Tonbeschaffenheit—schlecht
23. Tonbeschaffenheit—gut
24. Witterungsverhaeltnisse—gut
25. Witterungsverhaeltnisse—schlecht
26. Amerikanische Weisen
27. Deutsche Weisen
28. Gitarre
29. Duett
30. Zeitangabe

Indem ich Ihnen fuer Ihre Senderempfangsbestaetigung zum voraus bestens danke, gebe ich mich der angenehmen Hoffnung hin Ihnen in kurzer Zeit einen weiteren Bericht einzusenden zu koennen und verbleibe

Ihr Aufrichtigster

## He Couldn't Believe It

WHEN I first bought RADEX, I was surprised to see letters from readers reporting reception of stations on the broadcast band as far away as New Zealand and Australia and I just couldn't believe it. To be frank, I really thought they were lies and so I let it go by until I found that in nearly every issue someone was receiving NZ's and Japs and Aussies. So then I began to think, well maybe some of those fellows do get a real distant station *now and then*.

I began to get interested in the b.c. band and so one morning I got up at 5:00 o'clock, EST., and tuned in. I was waiting for my set to warm up and I had my dial set at 720. Not purposely. It just happened to be set at 720. Well sir, what should I hear but a very weak station there

(Continued on page 72)

# AROUND *the* CLOCK on *the* SHORT WAVES

MIDNIGHT TO NOON (EST)

GMT	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00
AST	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
EST	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
CST	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
MST	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
PST	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
	W8XK W9XF	GSD GSF VK2ME W9XF	GSD GSF VK2ME	RV15	RV15	J1AA RV15 VK2ME VK3ME	GSF GSF J1AA RV15 VK2ME VK3ME W1XAZ ZGE	EAR58 GSF GSF PHI H11A RV15 Rabat VE9DR VE9GW VK2ME W1XAZ W8XK ZGE	DJB EAR58 GSF GSF PHI PHI Rabat VE9DR VE9GW VE9GW VK2ME W1XAZ W8XK	DJB GSE GSF GSF PHI Pont. VE9DR VE9GW VE9JR VK2ME W1XAZ W8XK	CT3AQ DJB DJD GSE GSF HVJ Pont. VE9DR VE9GW W1XAL W1XAZ W8XK	CT3AQ DJB DJD GSB GSE GSF Pont. VE9DR VE9GW VE9JR W1XAL W1XAZ W2XE W3XAU W8XK

## NOON TO MIDNIGHT (EST)

GMT	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	1:00	2:00	3:00	4:00
AST	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
EST	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
CST	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
MST	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
PST	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
	DJB DJD GSB GSF H11A H11A I2RO Pont. TGW VE9DR VE9GW VE9JR W1XAL W1XAZ W2XE W3XAL W3XAU W8XK	DJB DJD EAQ GSB H11A H11A I2RO Pont. VE9DR VE9GW VE9JR W1XAZ W3XAL W3XAU W8XK W9XF	DJB DJD EAQ GSB GSD HJ4ABB I2RO ONY Rabat RV59 VE9DR W1XAZ W1XAZ W2XAD W2XE W3XAL W3XAU W8XK W9XF	DJA DJB DJD GSB GSD HJ4ABB I2RO ONY Rabat RV59 VE9DR W1XAZ W2XE W3XAL W3XAU W8XK W9XF YV3BC W8XK	CT1AA DJA DJD GSB GSD EAR58 GSB GSD HBL HBP ONY VE9DR W1XAL W2XAF W2XE W3XAL W3XAU W8XK W9XF YV1BC YV3BC	CT1AA CT3AQ DJA DJD EAQ GSB GSD HBL HBP ONY VE9DR W1XAL W2XAF W2XE W3XAL W3XAU W8XK W9XF YV1BC YV3BC	CT1AA CT3AQ DJA DJB EAQ GSB GSD HBL HBP ONY VE9DR W1XAL W2XAF W2XE W3XAL W3XAU W8XK W9XF YV1BC YV3BC	DJA DJC H11A HJ1ABB 2ABA 4ABB 4ABE LSX Pont. VE9DR VE9GW VE9JR W1XAL W2XAF W2XE W3XAL W3XAU W8XK W9XF YV1BC YV3BC	HJ 1ABB 2ABA 3ABD 4ABB 4ABE Pont. PRADO TGW VE9DR VE9GW VE9JR W1XAL W2XAF W2XE W3XAL W3XAU W8XK W9XF YV1BC YV3BC	HJ 3ABD Pont. PRADO TGW NRF VE9DR VE9GW VE9JR W1XAL W1XAZ W2XE W3XAL W3XAU W8XK W9XF XETE YV1BC YV3BC	HJ 4ABB VE9DR W1XAZ W3XAL W3XAU W8XK W9XF XETE YV1BC YV3BC	

# One Hundred Best

## Short Wave Stations

### Arranged Alphabetically

Stations marked with an asterisk (\*) will not verify. Frequencies are given in megacycles. Times are given in Eastern Standard.

- \*British Ships, 13,220, 8,831, 4,174  
 \*CEC, Chile, 19,678, 15,855  
 CGA, Canada, 13,296, 9,340  
 CNR, Morocco, 12,820  
 CP5, Bolivia, 6,081  
 CT1AA, Portugal, 9,592. Tues. and Fri., 4:30-7 p.m.  
 CT3AQ, Madeira, Tues., Thurs., 5-6:30 p.m.; Sun. 10:30 a.m.-noon  
 DAF, Germany, 12,394  
 DFB, Germany, 17,512  
 DIQ, Germany, 10,285  
 DJA, Germany, 9,552. 7 to 9 p.m.  
 DJB, Germany, 15,160. 8 a.m. to 6:30 p.m.  
 DJC, Germany, 6,017. 7 to 9 p.m.  
 DJD, Germany, 11,753. 10 a.m. to 6 p.m.  
 EAQ, Spain, 9,862. 5:30 to 7 p.m. daily and 1-3 p.m. Sat.  
 EHY, Spain, 10,164  
 FTM, France, 19,282  
 FZS, Indo-China, 11,983  
 \*German Ships, 13,135, 10,163, 8,328, 4,174  
 GAS, England, 13,304  
 GBB, England, 13,500  
 GBS, England, 12,148  
 GBW, England, 14,450  
 GSA, England, 6,050. 1 to 5:30 p.m.  
 GSB, England, 9,510. 11:30 a.m.-12:30 p.m.; 1-5:30 p.m.; 6-8 p.m.  
 GSC, England, 9,585  
 GSD, England, 11,750. 1-3 a.m.; 1-5:30 p.m.; 6-8 p.m.  
 GSE, England, 11,865. 9:30 a.m.-12:30 p.m.  
 GSF, England, 15,140. 1-3 a.m.; 6-8 a.m.; 8:30-11:30 a.m.  
 GSG, England, 17,770. 6 to 8 a.m.; 8:30 to 10:30 a.m.  
 HBL, Switzerland, 9,580. Sat., 5 to 5:45 p.m.  
 HBP, Switzerland, 7,872. Sat., 5 to 5:45 p.m.  
 HI-1-A, Santo Domingo, 6,272. 8-8:30 a.m.; 12:30-1:30 p.m.; 8-9 p.m.  
 \*HJB, Colombia, 14,930  
 \*HJY, Colombia, 18,444  
 HJ1ABB, Colombia, 5,793. 8-10 p.m. daily  
 HJ2ABA, Colombia, 5,876. 7:30 to 10 p.m.  
 HJ3ABD, Colombia, 7,402. 9-11:15 p.m. daily  
 HJ4ABB, Colombia, 7,139. Sat., 11 p.m. to Mid.; Sun. 3-5 p.m.; Wed., 8-10 p.m.  
 HJ4ABC, Colombia, 5,879. Mon., Wed., Fri., 7:30-9:30 p.m.  
 HJ5ABB, Colombia, 6,378  
 HJ5ABF, Colombia, 8,271  
 HKN, Colombia, 7,138. 8-10 p.m., daily  
 HSP, Siam, 17,719  
 HVJ, Vatican City, 15,120  
 IAC, Italy, 12,785  
 IZRO, Italy, 11,800. 11:30 a.m. to 12:30 p.m.; 1:15 to 6 p.m.  
 J1AA, Japan, 9,862. 5 to 8 a.m.  
 KAY, Philippines, 14,980  
 KAZ, Philippines, 9,990  
 \*KKP, Hawaii, 16,024  
 LSN, Argentina, 9,895  
 LSY, Argentina, 10,345  
 LSV, Argentina, 18,116  
 \*OCL, Peru, 18,570  
 OXY, Denmark, 9,520. 2 to 6:30 p.m.  
 PHI, Holland, 17,761. 8-10 a.m. Mon., Tues., and Fri.; 8 to 10:30 a.m. Sat. and Sun.  
 PLV, Java, 9,410  
 Pontoise, France, 15,234. 8-11 a.m.  
 11,898. 11:30 a.m. to 1:15 p.m.  
 11,711. 3-5 p.m. and 6-11 p.m.  
 \*PPU, Brazil, 19,270  
 PRADO, Ecuador, 6,618. Thursday, 9-11 p.m.  
 \*PSF, Brazil, 14,682  
 Rabat, Morocco, 12,820. Sun. 7:30 to 9 a.m.  
 8,218. Sun. 2:30 to 5 p.m.  
 \*RXF, Panama, 14,545  
 RV15, Siberia, 4,273. 3-9 a.m., daily  
 RV56, USSR, 5,996. 3-6 p.m., daily  
 RW50, USSR, 11,923  
 SRI, Poland, 9,488. 1-3 p.m., Tues.; 8-9 a.m., Wed.  
 TGI, Guatemala, 14,545  
 TIR, Costa Rica, 14,545  
 TI4NRH, Costa Rica, 9,670. 10-11 p.m., daily  
 UORZ, Austria, 6,072. 8:30-9 a.m.; 10 a.m.-1 p.m. and 2-4 p.m. on Tuesdays.  
 VE9BJ, Canada, 6,090  
 VE9CS, Canada, 6,074  
 VE9DR, Canada, 6,005. 7:30 a.m. to Midnight; Sun., noon to 11:15 p.m.  
 VE9CW, Canada, 6,092. 3 p.m.-midnight  
 VE9HX, Canada, 6,110. 5-11 p.m., daily  
 VE9JR, Canada, 11,710. Sun. 9-10 p.m.; Sat., 9:30-10 a.m.; 11-11:30 a.m.; 12:45-1:15 p.m.; 7-8:30 p.m.; 9-10:30 p.m. Other days: 9:30-10 a.m.; 11-11:35 a.m.; 2-2:15 p.m.; 3-15-3:35 p.m.; 7-10:30 p.m.  
 VK2ME, Australia, 10,520.  
 9,585. Sunday, 1-3 a.m.; 4:30-8:30 a.m.; 9-11 a.m.  
 VK3ME, Australia, 9,503. Wed., 5-6:30 a.m.; Sat., 5-7 a.m.  
 VFN, Bahamas, 4,313  
 VWN, India, 17,533  
 \*WEA, U. S. A., 10,601  
 \*WEP, U. S. A., 9,488  
 \*WNC, U. S. A., 15,065  
 W1XAL, U. S. A., 15,242. Sunday, 10 a.m.-1 p.m.  
 11,780. Sat., 5:30-11 p.m.; Sun., 6:30-8:30 p.m.  
 W2XAD, U. S. A., 15,320. Mon., Wed., Fri., 3-4 p.m.; Sun., 2-4 p.m.  
 W2XAF, U. S. A., 9,530. 7 p.m. to 1 a.m.  
 W2XNE, U. S. A., 15,258. 11 a.m. to 1 p.m.  
 11,823. 3 to 5 p.m.  
 6,116. 6 to 11 p.m.  
 W3XAL, U. S. A., 17,772. 12:30 to 6:30 p.m. except Sat.  
 6,096. 3 p.m. to midnight, Saturday  
 W3XAU, U. S. A., 9,585. 11 a.m. to 5 p.m.  
 6,057. 7 p.m. to midnight  
 W3XL, U. S. A., 6,421. Irregular  
 W8XX, U. S. A., 21,451. 7 a.m. to 2 p.m.  
 15,204. 10 a.m. to 4:15 p.m.  
 11,870. 4:30-10 p.m.  
 6,140. 4:30 p.m. to 12:30 a.m.  
 W9XAA, U. S. A., 6,076. 3 to 6 p.m.  
 W9XF, U. S. A., 6,100. Silent Sat.; Sun. 1-2:30 p.m.; 4:30-7 p.m.; 9 p.m. to 2 a.m.; other days, 4:30-8 p.m.; 9:30 p.m. to 2 a.m.  
 XAM, Mexico, 11,187  
 XETE, Mexico, 9,600. 2:30-5 p.m.; 6:30 p.m. to midnight  
 \*YNA, Nicaragua, 14,480. Phones Hialeah  
 \*YVQ, Venezuela, 13,337. Phones Hialeah  
 \*YVR, Venezuela, 18,296 and 9,168  
 YV1BC, Venezuela, 6,112. 5:15 to 10 p.m.  
 YV2AM, Venezuela, 14,102. Sun., 6:30 to 11:30 a.m.  
 YV3BC, Venezuela, 9,510. 9:30 to 10 p.m.  
 6,134. 10:30 a.m. to 1 p.m. and 4:30-9:30 p.m.; Sun., 8:30 a.m. to noon and 3-6:30 p.m.  
 \*ZFA, Bermuda, 5,045  
 \*ZFB, Bermuda, 10,060  
 ZGL, Malaya, 5,996. Tues., Fri., 6:30-8:30 a.m. and Sun., 7-9 a.m.

# WHAT'S ON THE AIR TONIGHT?

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

COLUMBIA.....(C)	
Call	Dial

NATIONAL, Red (R)	
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NATIONAL, Blue.(B)	
Call	Dial

CANADIAN.....(F)	
Call	Dial

TIME: E Eastern; C Central; M Mountain; P Pacific.

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

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

## MONDAY

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

C — Buck Rogers in 25th Century

CKLW WAAB WABC WADC WBT WCAO WCAU WDRC WEAN WHK WJSV WKBW WOKO

R — Walter Logan's Ensemble

KDYL KFYR KOA KPO KPRC KSD KSTP KTBS KTHS KVOO WAPI WBEN WCAE WCSH WDAF WDAY WEAF WEEB WFAA WFLA WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WMAQ WMC WOAI WOC WRC WRVA WSAI WSB WSM WSMB WTAG WTAM WWJ WWNC

B — Richard Himber and Orchestra

KOIL KSO KWCR KWK KYW WBAL WBZ WBZA WCKY WENR WHAM WJZ WMAL WREN WSYR

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

C — H-Bar-O Rangers

WAAB WABC WCAU WDRC WEAN WFBL WGR WHFC WHK WLBZ WMAS WOKO WORC

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

C — Vera Van, Contralto

CFRB CKLW KLRA WAAB WABC WADC WBIG WBRC WCAO WDEJ WDRC WDSU WFEA WGST WHC WHK WHP WJSV WKBW WLAC WLBB WMBG WOKO WORC WQAM WREC WSEA WJSJ WTAR WTOC

F — Dinner Music

CFBO CFCE CFCH CFCO CFCY CFEN CFPL CHGS CHNS CHRK CJCX CKCH CKNC CKOC CKPC CKPR CRCA CRCO CRCS CRCT

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

R — Horsensense Philosophy; Andrew Kelly

KOA WAPI WHEN WCAE WCKY WEAF WFAA WFBR WGY WHO WJDX WMAQ WMC WOC WSAI WSB WSM WSMB WTAG WWJ

B — Lowell Thomas

CRCT KDKA WBAL WBZ WBZA WFLA WGAR WHAM WIOD WJAX WJR WJZ WLW WSYR

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

C — Myrt and Margie

CKLW KRLD WABC WADC WBT WCAO WCAU WDAE WDBO WDRC WEAN WFBL WGR WHK WJAS WJSV WKRC WNAC WOKO WQAM WSPD WTOC WYVA

R — Mollie Show; Charlie Leland

KSD WBEN WCAE WCSH WDAF

WEAF WEEL WFBR WGY WHO WJAR WLIT WMAQ WOC WOV WRC WTAG WTAM WTIC WWJ

B — Amos 'n' Andy

CRCT KDKA WBAL WBZ WBZA WCKY WFLA WGAR WHAM WIOD WJR WJZ WLW WMAL WPTF WRVA

F — Harvey Robb, Organist

Stations same as 6:30 Monday

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

C — Just Plain Bill

CFRB CKLW WABC WCAO WCAU WGR WHK WJSV WKRC WNAC

R — Billy Bachelor; Ray Knight

WEAF WGY WJAR WRC WTAG WTAM WWJ

B — Baby Rose Marie, Songs

KDKA WBAL WBZ WBZA WHAM WJZ WMAL WSYR

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

C — Music in the Air

WABC WCAO WCAU WDRC WEAN WFBL WFEA WGR WHFC WICC WJAS WJSV WLBZ WNAC WOKO WORC

R — Lum and Abner

KSD WBEN WCAE WCSH WDAF WEAF WEEL WFBR WGY WJAR WLW WRC WTAG

B — Richfield Country Club

CRCT KDKA WBAL WBZ WBZA WHAM WJZ WMAL WSYR

F — Chamber Music

Stations same as 6:30 Monday

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

C — Boake Carter; Philco

CKLW KMBC KMOX WABC WBBM WBT WCAO WCAU WCCO WGR WHAS WHK WJAS WJSV WNAC

R — The Goldbergs

WBEN WCAE WCSH WDAF WEAF WEEL WENR WFBR WGY WJAR WLIT WOV WRC WSAI WTAG WTAM WWJ

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

C — Happy Bakers

CKLW WABC WADC WCAH WDRC WFBL WGN WGR WHFC WHK WICC WJSV WMAS WMBG WMT WNAC WORC WSPD WYVA

R — Soconyland Sketches—Drama

WBEN WCSH WEAF WEEL WGY WJAR WTAG WTIC

B — Frank Black's String Symphony

CFCE CRCT KDKA KOIL KSO KWCR KWK WBAL WBZ WBZA WCKY WGAR WHAM WJR WJZ WLS WMAL WREN WSYR

F — Blackfoot Trails

CFAC CFBO CFCE CFCH CFCN CFCO CFCY CFEN CFPL CFQC CHAB CHGS CHNS CHRK CHWC CJCA CJCX CJCJ CJGX CJOC CJRM CJRW CKCH CKCK CKNC CKOC CKPC CKPR CKUA CKX CKY CRCA CRCO CRCS CRCT

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

C — Edwin C. Hill

CKLW KMBC KMOX WABC WADC WCAO WCAU WCCO WDRC WEAN WFBL WFBL WGN WGR WHK WJAS WJSV WKRC WNAC WOKO WSPD

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

C — Bing Crosby

CKLW KDB KERN KFBK KPYP KPRC KGB KHJ KLZ KMBC KMJ KMOX KOIN KOL KSL KVI KWG WABC WADC WCAO WCAU WDRC WEAN WFBL WFBL WGN WGR WHAS WHK WJAS WJSV WKRC WNAC WOKO WOV WSPD

R — Johns-Manville; Floyd Gibbons

KDYL KOA KPRC KSD WBEN WCAE WCSH WDAF WEAF WEEL WFBR WFLA WGY WHO WIOD WIS WJAR WJAX WKY WLIT WLW WMAQ WMC WOC WOV WRC WRVA WSB WSM WSMB WTAG WTAM WTIC WWJ

E-8:45 p.m., C-7:45, M-6:45, P-5:45

B — Red Davis—Dramatic Sketch

KDKA WBAL WBZ WBZA WHAM WJR WJZ WLS WSYR

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

C — Evening in Paris

CKLW KLZ KMBC KMOX KOMA KSL WABC WCAO WCAU WCCO WDSU WEAN WGN WGST WHAS WHK WJSV WNAC

R — A. & P. Gypsies

KSD WBEN WCAE WCSH WDAF WEAF WEEL WGY WHO WJAR WLIT WMAQ WOC WOV WRC WSAI WTAG WTAM WTIC WWJ

F — Hour of Gaiety and Romance

CFAC CFBO CFCE CFCH CFCN CFCO CFCY CFJC CFNB CFPL CFQC CHAB CHGS CHNS CHRK CHWC CHWK CJCA CJCX CJCJ CJGX CJOC CJRM CJRW CKCH CKCK CKNC CKOC CKOV CKPC CKPR CKUA CKX CKY CRCA CRCO CRCS CRCT CRV

B — Sinclair Minstrels

KDKA KFYR KOA KOIL KPRC KSO▲KSTP KTBS KTHS KVOO

**MONDAY—(Continued)**

KWCR KWK WBAL WBZ WBGA  
WDAY WDEB WFSA WFLA WWRB  
WHAM WIBA WIOD WIS WJAX  
WJDX WJR WJZ WKY WLS WLW  
WMC WOAI WPTF WREN WRVA  
WSB WSM WSMB WTMJ WWSN

**E-9:15 p.m., C-8:15, M-7:15, P-6:15**  
**C—Kate Smith**  
CFRB KFH KLRA KLZ KMBC  
KMOX KOMA KSL KTRH KTSa  
KVOR WAEC WACO WADC WBIG  
WBRC WCAO WCAU WCCO WDBJ  
WDRS WDSU WFBL WFBM WFEA  
WGST WHAS WHF WBW WISN  
WJAS WJSV WKRW WLWB WMDB  
WMBG WOKO WORC WPG WQAM  
WRCB WSTP WSJS WTAR WTOG

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**C—Isham Jones; Lulu McConnell**  
CFRB CKLW DB KERN KFBK  
KFFY KFRG KGH KHJ KLZ KMBC  
KMI KMXX KOIN KOL KRDL  
KSL KVI KWG WABC WADC  
WBMM WBT WCAH WCAO WCAU  
WCCO WDRS WDSU WEAN WFBL  
WFBM WHAS WHK WICC WJAS  
WJSV WKBW WKRC WLAC WNAC  
WOKO WOVO WPEC WSPD WTAR

**R—Del Monte Ship of Joy**  
KDYL KOA KPRC KSD KSTP  
KTBS KVOD WENR WFAE WFSH  
WEAF WEBC WEEL WFLA WFBM  
WFLA WGY WHO WIOD WIS  
WJAR WJAX WKBF WKY WLIT  
WMAQ WOAI WOC WOW WTR  
WRVA WSAI WTAG WTAM WTMJ  
WJZ WJZW

**B—Jack Frost's Melody Moments**  
KDKA WBSL WENR WGAR WHAM  
WJR WJZ WLW

**E-10:30 p.m., C-9:00, M-8:00, P-7:00**  
**C—Wayne King and Orchestra**  
CKLW KALE KDB KEAN KFRG  
KGB KHJ KLZ KMBC KMOX  
KOIN KOL KSL KWG WAAB WAEC  
WADC WBMM WCAO WCAU WCCO  
WDRS WEAN WFBL WFBM WGR  
WHAS WHK WJAS WJSV WKRC  
WOKO WOVO WSPD  
**R—Contented Program**  
CFRC CRCT KDYL KFI KFJR  
KGO KGW KHQ KOA KOMO KPRC  
KSTP WFSH WFAE WEBC WEEL  
WFBR WJAR WLIT WMC WOAI  
WRB WSB WSM WTAG

**E-10:30 p.m., C-9:30, M-8:30, P-7:30**  
**R—Jules Lande, Violinist**  
KSD WBEN WCAE WFSH WDAF  
WEAF WEEL WFBR WGY WHO  
WIOD WIS WJAR WLIT WLW  
WMAQ WOC WOW WRC WTAG  
WTAM WTTIC WJZ WWSN  
**F—Luigi Romanelli's Orchestra**  
Stations same as 9:00 Monday

**E-10:45 p.m., C-9:45, M-8:45, P-7:45**  
**C—Myrt and Marge**  
KDB KERN KFBK KFFY KFRG  
KGB KHJ KLRA KLZ KMBC KMI  
KMOX KOIN KOL KOMA KSL  
KVI KWG WBMM WBRC WCCO  
WDSU WFBM WGST WHAS WLAC  
WODX WREC

**E-11:00 p.m., C-10:00, M-9:00, P-8:00**  
**C—Howard Barlow's Symphony**  
CKLW KFH KLRA KLZ KMBC  
KOMA KTRH KTSa KVOR WAAB

WABC WACO WADC WBIG WBRC  
WCAO WCCO WDBJ WDRS WDSU  
WEAN WFBL WFBM WGN WGST  
WHAS WHEC WHP WBW WICC  
WIP WISN WJSV WKBW WLAC  
WLWB WMDB WMBG WMT WOKO  
WORC WPG WQAM WREC WSJS  
WTAR WTOG

**B—Amos 'n' Andy**  
KDYL KFI KGO KGW KHQ KOA  
KOIL KOMO KPRC KSTP KTHS  
KWK WBAP WDAF WENR WKY  
WMAQ WMC WOAI WREN WSB  
WSM WSMB WTMJ  
**F—Musical Cavalcade**  
Stations same as 9:00 Monday

**E-11:15 p.m., C-10:15, M-9:15, P-8:15**  
**C—Columbia News Service**  
CFRB CKLW KFH KLRA KLZ  
KMBC KMOX KOMA KTRH KTSa  
KVOR WAAB WABC WACO WADC  
WBIG WBRC WCCO WDBJ WDRS  
WDSU WEAN WFBM WGST WHAS  
WHP WBW WICC WISN WJAS  
WJSV WKBW WLAC WLWB WMDB  
WMBG WMT WOKO WORC WPG  
WQAM WREC WSBT WSJS WTAR  
WTOG

**R—Lum and Abner**  
KFJR KSD WDAF WENR WHO  
WIBA WKBF WOC WOW WTAM  
WTMJ

**E-11:30 p.m., C-10:30, M-9:30, P-8:30**  
**C—Joe Haymes and Orchestra**  
CFRB CKLW KFH KLRA KLZ  
KMBC KOMA KTRH KTSa KVOR  
WABC WADC WBRC WCAO WCAU  
WDBJ WDRS WDSU WEAN WFBL  
WFBM WGST WHAS WHK WHF  
WBW WICC WISN WJSV WKBW  
WLAC WLWB WMDB WMBG WMT  
WNAC WOKO WORC WPG WQAM  
WREC WSBT WSJS WTAR WTOG

**TUESDAY**

**E-6:00 p.m., C-5:00, M-4:00, P-3:00**  
**C—Buck Rogers, See Monday**  
**R—Walter Logan, See Monday**  
**B—Dick Messner and Orchestra**  
KOIL KSO KWCR KYW WBAL  
WCKY WENR WHAM WJR WJZ  
WMAL WREN WSYR

**E-6:15 p.m., C-5:15, M-4:15, P-3:15**  
**C—H-Bar-O Rangers, See Monday**

**E-6:30 p.m., C-5:30, M-4:30, P-3:30**  
**C—Betty Barthell, Songs**  
CFRB CKLW KLRA KOMA WAAB  
WABC WADC WBIG WBRC WCAO  
WDBJ WDRS WDSU WFBM WFEA  
WGST WHEC WHK WHP WJZ  
WKRW WLWB WMBG WOKO WORC  
WQAM WREC WSPA WSJS WTAR  
WTOG

**R—Mid-Week Hymn Sing**  
KDYL KFJR KGR KPO KPRC  
KTBS KTHS KVOD WDAF WEAF  
WFAA WFI WGY WHO WIBA WIS  
WJAX WJDX WMAQ WOAI WOC  
WRC WSAI WTAG WWSN  
**B—Kathryn Newman, Soprano**  
KSO KWCR WBAL WCKY WENR  
WHAM WJZ WREN WSYR  
**F—Dinner Hour, See Monday**

**E-6:45 p.m., C-5:45, M-4:45, P-3:45**  
**R—Elizabeth Lennox, Contralto**  
KDYL KOA KPO KSD WCKY  
WEAF WEEL WFBR WFLA WGY  
WHO WIOD WIS WJAR WJAX

WJDX WMAQ WOC WOW WRVA  
WSAI WSM WTAG WJZ WWSN  
**B—Lowell Thomas, See Monday**

**E-7:00 p.m., C-6:00, M-5:00, P-4:00**  
**C—Myrt and Marge, See Monday**  
**B—Amos 'n' Andy, See Monday**  
**F—Rex Battle's Orchestra**  
Stations same as 6:30 Monday

**E-7:15 p.m., C-6:15, M-5:15, P-4:15**  
**C—Just Plain Bill, See Monday**  
**R—Billy Bachelor, See Monday**  
**B—Radio in Education**  
KDKA KPCC KEX KFSD KFJR  
KGA KGHL KGR KJR KOA KOIL  
KPRC KTR KTBS KTHS KVOD  
KWCR KWIK KYA WAPI WBAP  
WBZ WBZA WCKY WFLA WHAM  
WIBA WIS WJDX WJZ WMAL  
WIVA WJTF WREN WSMB WWSN

**E-7:30 p.m., C-6:30, M-5:30, P-4:30**  
**R—Lum and Abner, See Monday**  
**F—Maritime Presentations**  
Stations same as 6:30 Monday

**E-7:45 p.m., C-6:45, M-5:45, P-4:45**  
**C—Boake Carter, See Monday**  
**R—Goldbergs, See Monday**  
**B—Don Carney's Dog Chats**  
KDKA WBZ WBZA WCKY WGAR  
WHAM WJR WJZ WMAL WMAQ  
WSYR

**E-8:00 p.m., C-7:00, M-6:00, P-5:00**  
**C—Elmer Everett Yess; Comedy**  
CKLW KFAB KFH KMBC KMOX  
KOMA KSOJ KTRH KTSa WAAB  
WABC WADC WBMM WBIG WBRC  
WBT WCAH WCAO WCAU WCCO  
WDAE WDBO WDRD WDRS WDSU  
WEAN WFBL WFBM WGR WGST  
WHAS WHEC WHK WBW WICC  
WJAS WJSV WKBN WKRC WLAC  
WJAS WMBG WMT WOKO WORC  
WOVO WQAM WREC WRR WSPA  
WSPD WTAR WWSA

**R—Blackstone; Sanderson-Crumit**  
WENR WCAE WFSH WEAF WEEL  
WFI WGY WJAR WRC WTAG  
WTAM WJZ  
**B—Eno Crime Clues**  
KDKA KWK WBAL WBSL WBZA  
WGAR WHAM WJR WJZ WLW  
WMAL WMAQ WREN  
**F—Chas. Dornberger's Orchestra**  
Stations same as 6:30 Monday

**E-8:15 p.m., C-7:15, M-6:15, P-5:15**  
**C—Singing Sam, Barbasol Man**  
CKLW WMI KMXX WABC WADC  
WCAO WCAU WCCO WDRS WEAN  
WFBL WFBM WGN WGR WHK  
WJAS WJSV WKRC WNAC WOKO  
WSPD

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
**C—Voice of Experience**  
CKLW KMBC KMXX WABC WBMM  
WBT WCAO WCAU WDRS WEAN  
WGR WHAS WHK WJAS WJSV  
WKRC WNAC  
**R—Wayne King and Orchestra**  
KPRC KSD KSTP WBEN WCAE  
WFSH WDAF WEAF WEEL WFAA  
WFI WGY WHO WJAR WKBF  
WKY WMAQ WMC WOAI WOC  
WOW WRC WSAI WSB WSM WSMB  
WTAG WTAM WTMJ WJZ  
**B—Horlick's Adventures in Health**  
CRCT KDKA KOIL KSO KWCR  
WBAL WBZ WBZA WGAR WHAM  
WJR WJZ WLS WLW WREN

**TUESDAY—(Continued)**

**F — Romantic Pictures—Readings**  
Stations same as 6:30 Monday

**E-8:45 p.m., C-7:45, M-6:45, P-5:45**

**C — Kate Smith**  
CFBR CKLW KFH KLRA KLZ  
KMOX KOMA KSL KTRH KTSa  
KVOR WABC WACO WADC WBIG  
WBRC WCAO WCAU WCCO WDBJ  
WDRS WDSU WEAN WFBL WFEA  
WFBA WGR WGST WHAS WHC  
WHK WHP WHF WIBC WISN  
WJAS WJSY WLAC WLWB WMBG  
WMT WNAQ WOKO WORC WPG  
WQAM WREC WSBT WSJS WTAQ  
WTAR WTOG

**B — Smith Bros.—Trade and Mark**  
KDKA KOIL KSO KWCR KWB  
WBAL WBZ WBZA WGAR WHAM  
WJR WJZ WLS WLW WMAL WREN  
WSYR

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

**C — California Melodies**  
CFBR CKLW KFH KLRA KLZ  
KMBC KMOX KOMA KSL KTRH  
KTSa KVOR WABC WACO WADC  
WABC WBIG WBRC WCAO WCAU  
WCCO WDBJ WDRS WDSU WEAN  
WFBL WFBM WFEA WGST WHAS  
WHC WHK WHF WIBC WISN  
WJAS WJSY WLAC WLWB WMBD  
WMBG WMT WNAQ WOKO WORC  
WPG WQAM WREC WSJS WTAQ  
WTOG

**R — Ben Bernie and Orchestra**  
KFRR KOA KFRC KSD KSTP  
WBAP WBZ WBZA WCAE WCHS WDAY  
WEAF WEEL WEEI WFBR WFI  
WGY WHO WJAR WJAZ WJLB  
WMAQ WMC WOI WRC WYR  
WYR WYR WYR WYR WYR WYR  
WYR WYR WYR WYR WYR WYR

**B — Household Musical Memories**  
KDKA KSO KWK WBAL WBZ WBZA  
WHAM WJR WJZ WKBF WLS  
WREN WSYR

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

**C — Nino Martini, Tenor**  
CFBR CKLW KFH KLRA KLZ  
KMBC KMOX KOMA KRLD KSL  
KTRH KTSa KVOR WABC WACO  
WADC WBIG WBRC WCAO WCAU  
WCCO WDBJ WDRS WDSU WEAN  
WFBL WFBM WFEA WGY WGST  
WHAS WHC WHK WHP WIBW  
WICG WJAS WJSY WKBW WLAC  
WLWB WMBD WMBG WMT WNAQ  
WOKO WORC WPG WQAM WREC  
WSJS WTAQ WTOG

**R — Texaco Fire Chief Program**  
KDYL KFI KFSB KFRR KGHL  
KGR KGO KGW KHQ KOA KOMO  
KFRC KSD KSTP KTR KTRH  
KVOR WBAP WBEN WCAE WCHS  
WDAF WDF WDAF WEAF WEBC  
WEEI WFBR WFI WFLA WGY WIO  
WIBW WIOD WIS WJAR WJAZ  
WJDX WKY WLW WMAQ WMC WOI  
WRC WOM WPTF WRC WYR  
WSB WSM WSMB WTAG WTAM  
WTMJ WWJ WWNC

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

**C — Legend of America**  
CKLW KFH KLRA KLZ KMBC  
KMOX KOMA KTRH KTSa KVOR  
WAAB WABC WACO WADC WBIG  
WBRC WCAO WCAU WCCO WDBJ  
WDRS WDSU WEAN WFBL WFEA  
WFBA WGR WGST WHAS WHC  
WHP WIBW

WICC WJAS WJSY WKBW WLAC  
WLWB WMBD WMBG WMT WOKO  
WORC WPG WQAM WREC WSJS  
WTOC WWVA

**R — Lives at Stake—Drama**

KDYL KFI KGO KGW KHQ KOA  
KOMO KFRC KSD KTSB KTHS  
KVOR WBAP WBEN WCAE WCHS  
WDAF WEAF WEEL WFBR WFI  
WGY WHO WJAR WJAZ WJLB  
WMAQ WMC WOI WRC WYR  
WYR WYR WYR WYR WYR WYR

**B — Ortiz Tirado, Mexican Tenor**

CFCF CRCT KDKA KSO KSTP  
KWCR KWK WBAL WBZ WBZA  
WCKY WDAY WEBC WENR WFLA  
WGAR WHAM WIBA WIOD WIS  
WJAX WJR WJZ WMAL WREN  
WSYR WTMJ WWNC

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

**C — Boswell Sisters**  
CFBR CKLW KFH KLRA KLZ  
KMBC KMOX KOMA KSL KTRH  
KTSa KVOR WAAB WABC WACO  
WADC WBIG WBRC WCAO WCAU  
WCCO WDBJ WDRS WEAN WFBL  
WFBM WFEA WGST WHAS WHC  
WHK WHF WIBW WICC WISN  
WJAS WJSY WKBW WLAC WLWB  
WMBD WMBG WMT WOKO WORC  
WQAM WREC WSJS WTAQ WTOG  
WWVA

**R — Madame Sylvia—Beauty Talk**

KDYL KFI KGO KGW KHQ KOA  
KOMO KSD KSTP WBEN WEAF  
WEBC WEEL WGY WHO WJAZ  
WMAQ WOC WRC WTAG WWJ

**F — Maurice Meerte's Orchestra**

Stations same as 9:00 Monday

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

**C — Myrt and Marge, See Monday**  
**E-11:00 p.m., C-10:00, M-9:00, P-8:00**  
**C — Howard Barlow, See Monday**  
**B — Amos 'n' Andy, See Monday**

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

**C — Columbia News Service, See Mon.**  
**C — Elmer Everett Yess; Comedy**  
KALE KDB KERN KFRC KGB  
KHJ KLZ KMJ KOIN KOL KSL  
KWG  
**R — Lum and Abner, See Monday**

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

**C — Isham Jones and Orchestra**  
CFBR CKLW KFH KLRA KLZ  
KMBC KOMA KSL KTRH KTSa  
WABC WADC WBRC WCAO WDBJ  
WDRS WDSU WEAN WFBL WFBM  
WGST WHK WHP WIBW WISN  
WJSY WKBW WLAC WLWB WMBD  
WMBG WMT WNAQ WOKO WORC  
WQAM WREC WSBT WSJS WTAQ  
WTOC WWVA

**B — Paul Whiteman and Orchestra**

CFCF KDYL KFRR KOIL KPO KSO  
KSTP KWCR KWK WAPI WBAL  
WBZ WBZA WCKY WDAY WEBC  
WENR WFLA WHAM WIBA WIOD  
WIS WJDX WJZ WMAL WMC  
WREN WRVA WSB WSM WSMB  
WSYR WWNC

**E-11:45 p.m., C-10:45, M-9:45, P-8:45**

**C — Voice of Experience**

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

**E-12:00 mid., C-11:00, M-10:00 P-9:00**  
**R — Ben Bernie and Orchestra**  
KFI KGO KGW KHQ KOMO

**WEDNESDAY**

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

**C — Buck Rogers, See Monday**  
**R — Walter Logan, See Monday**  
**B — Ernie Holst and Orchestra**  
KOIL KSO KWCR WBAL WBZ WBZA  
WCKY WJR WJZ WREN

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

**C — H-Bar-O Rangers, See Monday**

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

**C — Vera Van, See Monday**  
**R — Back of News; William Hard**  
KFYR WEAF WFBR WGY WJAZ  
WIS WJAR WJDX WRC WSAI  
WSB WSM WWJ WWNC  
**B — Irene Beasley, Contralto**  
KGO KOA KFRC KSO KTSB KVOR  
KWCR WBAL WBAP WCKY WENR  
WGAR WJZ WOI WREN  
**F — Dinner Hour, See Monday**

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

**B — Lowell Thomas, See Monday**

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

**C — Myrt and Marge, See Monday**  
**R — Mollie Show, See Monday**  
**B — Amos 'n' Andy, See Monday**  
**F — Organ Recital, See Monday**

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

**C — Just Plain Bill, See Monday**  
**R — Billy Bachelor, See Monday**  
**B — John Herrick, Baritone**  
KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WCKY WENR  
WHAM WJZ WMAL WSYR

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

**C — Music in Air, See Monday**  
**R — Lum and Abner, See Monday**  
**F — Dramatic Sketch**  
CFBC CFCF CFCH CFCO CFCY  
CFNB CFFL CHGS CHNS GJCB  
CKCH CKNC CKOC CKPC CKPR  
CRCA CRCO CRCT

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

**C — Boake Carter, See Monday**  
**R — Goldbergs, See Monday**  
**B — Irene Rich for Welch**  
KDKA WBAL WBZ WBZA WCKY  
WJZ WMAL WMAQ WMC WSB  
WSM WSMB WSYR

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

**C — Happy Bakers, See Monday**  
**R — George Olsen; Bert Lehr**  
CFCF CRCT KSD WBEN WCAE  
WCKY WCHS WDAF WEAF WEEL  
WFBR WGY WHO WJAR WLIT  
WLS WOC WOW WRC WSAI WTAG  
WTAM WTIC WWJ  
**B — Eno Crime, See Tuesday**  
**F — Rhapsodies in Rhythm**  
Stations same as 8:00 Monday

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

**C — Edwin C. Hill, See Monday**  
**F — Gamboliers—Harmony Duo**  
Stations same as 8:00 Monday

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

**C — Albert Spalding; Conrad Thibault**  
CFBR CKAC CKLW KDB KERN  
KFBR KFPY KFRC KGB KILJ  
KLRA KLZ KMBC KMJ KMOX

**WEDNESDAY—(Cont'd)**

KOIN KOL KOMA KSL KTAT  
KTRH KTSa KVI KWG WABC  
WBRC WCAO WCAU WCCO WDOD  
WDRG WDSU WDFB WFBL WFBM  
WGN WGR WGST WHAS WHK  
WJAS WJSV WKRC WLAC WMT  
WNAC WOKO WORC WOWO WRFC  
WRR

**R — Abe Lyman; Frank Munn**

WBEN WCHS WDAF WFAF WFBR  
WGY WHO WJAR WLIT WMAQ  
WOC WOW WRC WSAI WTAG  
WTAM WWJ

**E-8:45 p.m., C-7:45, M-6:45, P-5:45**  
**B — Red Davis, See Monday**

**E-9:00 p.m., C-8:00, M-7:00, P-6:00**  
**C — Irvin S. Cobb; Al Goodman**

CKLW KLRA KLZD KTRH KTSa  
WABC WACO WADC WBIG WBRC  
WBT WCAH WCAO WCAU WDAE  
WDBJ WDBO WDOD WDRG WDSU  
WEAN WFBL WFEA WGLC WGST  
WHAS WHK WFCB WJAS WJSV  
WKBW WKRC WLAC WLBC WMA5  
WMBG WNAC WOKO WORC WOWO  
WQAM WREC WSAF WSPD WTAR  
WTOC

**R — Ipana Troubadours**

KDYL KFI KGO KGW KHQ KOA  
KOMO KPRC KSD KSTP KTBS  
KTHS KVOO WAPI WBAP WBEN  
WCAE WCHS WDAF WFAF WFAA  
WFBR WGY WHO WIOD WIS  
WJAR WJAX WKY WLIT WMAQ  
WMC WQAI WOC WOW WRC  
WRVA WSAI WSB WSM WSMB  
WTAG WTAM WTMJ WWJ

**B — Warden Lawes; Sing Sing Drama**

KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WCKY WGAR  
WHAM WJR WJZ WLS WMAL  
WREN WSYR

**F — One Hour With You**

Stations same as 9:00 Monday

**E-9:15 p.m., C-8:15, M-7:15, P-6:15**  
**C — Kate Smith, See Monday**

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

**C — Guy Lombardo — Burns and Allen**

CKLW KDB KERN KFBK KFPY  
KPRC KGB KHJ KLZ KMBC KMJ  
KMOX KOIN KOL KOMA KRLD  
KSL KTRH KTSa KVI KWG WABC  
WADC WBT WCAO WVA WCCO  
WDRG WEAN WFBL WFBM WGN  
WJK WJAS WJSV WKBY WKRC  
WNAC WOKO WORC WOWO WSPD

**R — Leo Reisman's Orchestra**

KSD KSTP WBEN WCAE WCHS  
WDAF WFAF WFBR WGY WJAR  
WLIT WMAQ WOW WRC WSAI  
WTAG WTAM WTMJ WWJ

**B — John McCormack, Tenor**

KDKA KDYL KFI KGO KGW KHQ  
KOA KOIL KOMO KSO KWCR  
KWK WBAL WBZ WBZA WCKY  
WENR WGAR WHAM WJR WJZ  
WMAL WREN WSYR

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

**C — Old Gold — Fred Waring's Orchestra**

CKLW KDB KERN KFBK KFOR  
KFPY KPRC KGB KHJ KLRA KLN  
KMBC KMJ KMOX KOL KOIN  
KOL KOMA KRLD KSCJ KSL  
KTRH KTSa KVI KWCR KWG  
WABC WACO WADC WBIG WBRC  
WBT WCAH WCAO WCAU WCCO  
WDAE WDBJ WDO WDDO WDRG

WDSU WEAN WFBL WFBM WFEA  
WGN WGST WHAS WHEC WHK  
WHP WIBW WICC WISN WJAS  
WJSV WKBH WKBW WKRC WLAC  
WLBW WLBY WMA5 WMBD WMBG  
WMT WNAC WNAX WOKO WORC  
WOWO WPG WQAM WREC WSPD  
WTAR WTOC

**R — Corn Cob Pipe Club**

KDYL KFI KFYR KGHK KGIR  
KGO KGW KHQ KOA KOMO KSD  
KSTP WBEN WCAE WCHS WDAF  
WDAF WFAF WFCB WEEI WENR  
WFBR WGY WHO WIBA WJAR  
WLIT WLW WOC WOW WRC  
WRVA WTAG WTAM WTIC WTAMJ  
WWJ

**B — Pedro Via's Orchestra**

CFPC CROT KDKA KOIL KSO  
KWCR KWK WBAL WBZ WBZA  
WCKY WGAR WHAM WJZ WMAL  
WREN WSYR

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

**C — Alexander Woolcott; "Town Crier"**

CFRB CKLW KLRA KLZ KMOX  
KOMA KSL KTRH KTSa KFOR  
WAAB WABC WACO WADC WBIG  
WBRC WCAO WDBJ WDRG WDSU  
WEAN WFBL WFEA WGR WGST  
WHAS WHEC WHP WIBW WJAS  
WJSV WLAC WLBW WMBD WMBG  
WMT WOKO WORC WPG WQAM  
WREC WSJS WTAR WTOC

**R — National Radio Forum**

KFYR KPRC KSD KSTP KTHS  
KVOO WBEN WCAE WCHS WDAF  
WFAF WFEI WFAA WFBR WFLA  
WGY WHO WIBA WIS WJAR WJAX  
WJDX WKY WMAQ WQAI WOC  
WOW WRC WRVA WSAI WSB WSM  
WSMB WTAG WTAM WTIC WWJ  
WVNC

**B — Ruth Lyon, Soprano**

CFPC KDKA KOIL KSO KWCR  
WBAL WBZ WBZA WCKY WENR  
WGAR WJR WJZ WMAL WREN  
WSYR

**F — Joe DeCourcy's Orchestra**

Stations same as 9:00 Monday

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

**C — Myrt and Marge, See Monday**

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

**C — Evan Evans, Baritone**

CKLW KFH KLRA KLZ KMBC  
KOMA KSL KTRH KTSa WAAB  
WABC WACO WADC WBIG WBRC  
WCAO WCCO WDBJ WDRG WDSU  
WEAN WFBL WGBT WHAS WHEC  
WHP WIBW WIP WISN WJAS  
WJSV WKBW WLAC WLBW WMBD  
WMBG WMT WOKO WORC WPG  
WQAM WREC WSJS WTAR WTOC

**B — Amos 'n' Andy, See Monday**

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

**C — Columbia News Service, See Mon.**

**R — Lum and Abner, See Monday**

**B — Poot Prince, Songs**

KDYL KFI KFYR KGO KGW KHQ  
KOA KOIL KOMO KSO KSTP KTBS  
KTHS KWCR KWK WAPI WBAL  
WCKY WDAY WECB WFAA WIBA  
WJDN WJR WJZ WKY WMAL  
WMAQ WMC WREN WSB WSYR

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

**C — Ozie Nelson and Orchestra**

KLRA WABC WBRC WDBJ WDRG  
WDSU WEAN WGST WICC WLAC  
WMBG WNAC WORC WQAM WREC  
WSJS WTAR WTOC

**B — Jack Denny and Orchestra**  
CFPC CRCT KSO KWCR KWK  
WBAL WBZ WBZA WCKY WENR  
WGAR WJZ WREN WSYR

**THURSDAY**

**E — 6:00 p.m., C-5:00, M-4:00, P-3:00**

**R — Buck Rogers, See Monday**

**R — Roger Gerston and Orchestra**

KDYL KFYR KOA KPO KPRC KSD  
KSTP KTBS KTHS KVOO WAPI  
WBEN WCAE WCHS WDAY WFAF  
WFCB WFAA WGY WHO WIBA  
WIOD WIS WJAR WJAX WJDX  
WKY WMAQ WMC WQAI WOC  
WOW WRC WRVA WSAI WSB WSMB  
WTAG WTAM WWJ WVNC

**B — Dick Messner, See Tuesday**

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

**C — H-Bar-O Rangers, See Monday**

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

**C — Eddie Dooley's Football Dope**

WABC WBIG WBT WCAO WCAU  
WDBJ WDRG WEAN WFBL WFEA  
WHEC WHP WJAS WJSV WKBW  
WLBZ WMBG WNAC WOKO WORC  
WSJS WTAR

**R — John B. Kennedy**

KDYL KFYR KOA KPO KPRC KSD  
KTBS KTHS KVOO WAPI WDAY  
WFAF WFBR WFI WGY WHO WIBA  
WIS WJAX WJDX WMAQ WMC  
WOR WRC WSAI WSB WSMB WTAG  
WWJ WVNC

**B — Old Songs of the Church**

KSO KWCR WBAL WCKY WENR  
WHAM WJZ WREN WSYR

**F — Dinner Hour, See Monday**

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

**R — Sizzlers Trio**

KFYR KOA KPRC KSD KSTP  
KTBS KVOO WAPI WBEN WCKY  
WDAY WFAF WFCB WEEI WFAA  
WFBR WFI WGY WHO WIBA WJAX  
WJDX WKY WMC WQAI WOC WOW  
WSAI WSB WSM WSMB WTAG  
WWJ

**B — Lowell Thomas, See Monday**

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

**C — Myrt and Marge, See Monday**

**B — Amos 'n' Andy, See Monday**

**F — Rex Battle**

Stations same as 6:30 Monday

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

**C — Just Plain Bill, See Monday**

**R — Billy Bachelor, See Monday**

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

**C — Fray and Braggiotti — Piano Duo**

KLRA WABC WBIG WBRC WDBJ  
WDRG WDSU WEAN WFEA WGST  
WLAC WLBY WMBG WNAC WORC  
WQAM WREC WSAF WSJS WTAR

**R — Lum and Abner, See Monday**

**F — Book Review — Prof. Macdonald**

Stations same as 6:30 Monday

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

**C — Boake Carter, See Monday**

**R — Goldbergs, See Monday**

**F — Old World Musicians**

Stations same as 6:30 Monday

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

**R — Elmer E. Yess, See Tuesday**

**R — Rudy Vallee and Orchestra**

CFPC CROT KDYL KFI KFYR KGO  
KGW KHQ KOA KOMO KPRC KSD  
KSTP KTRH KTHS WAPI WBAP  
WBEN WCAE WCHS WDAF WDAY

**THURSDAY—(Continued)**

WEAF WEBC WEEI WFBR WFLA WFLY WHO WIOD WJAR WJAX WJDX WKY WLW WMAQ WMG WQAI WQC WOW WPTF WRC WRVA WSB WSM WSMB WTAG WTAM WTMJ WWJ

**F — Chateau Frontenac Orchestra**  
Stations same as 6:30 Monday

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

**E-8:30 p. m., C-7:30, M-6:30, P-5:30**  
**C — Hall Johnson Singers**

CFRB CKLW KFII KLRA KLZ KMBC KMOX KOMA KSL KTRH KTSB KVOR WABC WACO WADC WBRM WBIG WBRG WCAO WCCO WDBJ WDRC WDSU WEAN WFBL WFBM WFEA WFR WGST WHAS WHFC WHK WHP WIBW WICC WISN WJAS WJSV WLAC WLWB WLBY WMBG WMT WNAC WOKO WORC WPG WQAM WREC WSBT WSFA WSJS WTAQ WTAR WTOG

**B — Horlick's, See Tuesday**  
**F — Musical Etchings**  
Stations same as 6:30 Monday

**E-8:45 p. m., C-7:45, M-6:45, P-5:45**  
**B — Thirteen Male Voices**  
KDKA KOIL KWCR WBAL WBZ WBZA WCKY WGAR WHAM WJZ WLS WMAL WREN WSYR

**E-9:00 p. m., C-8:00, M-7:00, P-6:00**  
**R — Maxwell House Showboat**

KDYL KFI KFSJ KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTAR KTBS WAPI WBAF WBAF WCAE WCKY WCSI WDAF WEAF WEEI WFBR WFLA WGY WHO WIOD WIS WJAR WJAX WJDX WKY WMAQ WMC WQAI WQC WOW WRVA WSAI WSM WSMB WTAG WTAM WTMJ WWJ WNBC

**B — Death Valley Days—Drama**  
KDKA KOIL KSO KWCR KWK WBAL WBZ WBZA WGAR WHAM WJR WJZ WLS WLW WMAL WREN WSYR

**F — Imperial Grenadiers, Male Q.**  
Stations same as 9:00 Monday

**E-9:30 p. m., C-8:30, M-7:30, P-6:30**  
**C — Columbia Dramatic Guild**

CFRB CKLW KFII KLRA KLZ KMBC KMOX KOMA KSL KTRH KTSB KVOR WABC WACO WADC WBRM WBIG WBRG WCAO WCCO WDBJ WDRC WDSU WEAN WFBL WFBM WFEA WFR WGST WHAS WHFC WHK WHP WIBW WICC WJAS WJSV WKBW WLAC WLWB WLBY WMBG WMT WNAC WOKO WORC WQAM WREC WSBT WSJS WTAR WTOG

**B — Wayne King and Orchestra**  
KDKA KOIL KSO KWCR KWK WBAL WBZ WBZA WENR WGAR WHAM WJR WJZ WREN

**E-10:00 p. m., C-9:00, M-8:00, P-7:00**  
**C — Willard Robinson's Orchestra**

CFRB CKLW KLRA KLZ KMBC KOMA KSL KTRH KTSB KVOR WAAB WABC WACO WADC WBIG WBRG WCAO WCAU WCCO WDBJ WDRC WDSU WEAN WFBL WFEA WGST WHAS WHEC WHP WIBW WICC WJAS WJSV WKBW WLAC WLWB WLBY WMBD WMT WOKO

WORC WPG WQAM WREC WSBT WSJS WTAR WTOG

**R — Paul Whiteman and Orchestra**  
KDYL KFI KFPR KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTBS KTHS KVOO WBAF WBSB WCAE WCSI WDAF WDAF WEAF WEEI WFLA WFR WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WLW WMAQ WMC WQAI WQC WOW WRC WRVA WSB WSMB WTAG WTAM WTMJ WWJ WNNC

**C — Hands Across the Border**  
CFAC CFBO CFCE CFCH CFCN CFCE CFY CFIC CFNB CFPL CFQC CHAB CHGS CHNS CHRC CHWC CHWK CJCA CJCB CJCJ CJGX CJOC CJRM CJRW CKCH CKOK CKNC CKOC CKOV CKPC CKPR CKUA CKX CKY CRCO CRCS CRT CRCT CRFC KDKA KOIL KSO KWCR WBAL WBZ WBZA WCKY WGAR WHAM WJR WJZ WMAQ WREN WSYR

**E-10:30 p. m., C-9:30, M-8:30, P-7:30**  
**B — Archer Gibson, Organist**

KDKA KSO KWCR KYW WBAL WBZ WBZA WCKY WGAR WHAM WJZ WMAL WREN

**F — Chas. Dornberger's Orchestra**  
Stations same as 9:00 Monday

**E-10:45 p. m., C-9:45, M-8:45, P-7:45**  
**C — Myrt and Marge, See Monday**

**E-11:00 p. m., C-10:00, M-9:00, P-8:00**  
**C — Gladys Rice, Soprano**

CKLW KFII KLRA KLZ KMBC KSL KTRH KTSB WAAB WABC WACO WADC WBIG WBRG WCAO WCCO WDBJ WDRC WDSU WEAN WFBL WFBM WGN WGST WHAS WHFC WHP WIBW WIP WISN WJAS WKBW WLAC WLWB WLBY WMBD WMBG WMT WOC WORC WPG WQAM WREC WSBT WSJS WTAR WTOG

**B — Amos 'n' Andy, See Monday**

**E-11:15 p. m., C-10:15, M-9:15, P-8:15**  
**C — Colu mbia News Service, See Mon.**

**C — Elmer E. Yess, See Tuesday**  
**R — Lum and Abner, See Monday**  
**B — Poet Prince, See Wednesday**

**E-11:30 p. m., C-10:30, M-9:30, P-8:30**  
**C — Ishma Jones, See Tuesday**

**R — Jack Dennis and Orchestra**  
KSD WENR WCAE WCSI WDAF WEAF WEEI WFBR WFI WGY WHO WJAR WOC WOW WSAI WTAG WTAM

**FRIDAY**

**E-6:00 p. m., C-5:00, M-4:00, P-3:00**  
**C — Jack Miller and Orchestra**

CFRB CKLW KLRA WAAB WABC WADC WBRG WCAO WDBJ WDRC WDSU WFEA WGST WHEC WHK WICZ WJAS WJSV WLAC WLWB WLBY WMBG WOKO WORC WQAM WREC WSFA WSJS WTAR WTOG

**R — Walter Logan, See Monday**

**E-6:15 p. m., C-5:15, M-4:15, P-3:15**  
**C — H-Bar-O Rangers, See Monday**

**E-6:30 p. m., C-5:30, M-4:30, P-3:30**  
**C — Eddie Dooley, See Thursday**

**B — Three X Sisters**  
KDKA KOIL KWCR KWK WBAL WBZ WBZA WCKY WENR WHAM

WJZ WMAL WREN WSYR  
**F — Dinner Hour, See Monday**

**E-6:45 p. m., C-5:45, M-4:45, P-3:45**  
**C — H. V. Kaltenborn**

CKLW KLRA KLZ KMBC KOMA KRLD KSL KTRH KTSB KVOR WAAB WACO WADC WBRG WDBJ WDSU WEAN WFBL WFBM WFEA WGST WHEC WHP WICC WISN WJSV WKBW WLAC WLWB WLBY WMBG WMT WOKO WQAM WREC WSFA WSJS WTAQ WTAR WTOG WVA

**R — Betty Boop Frolies**  
KOA KPO KSD WBSN WCAE WCKY

WEAF WEEI WFBR WJAR WJDX WMAQ WMC WSB WSM WSMB WTAG WWJ

**B — Lowell Thomas, See Monday**

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

**R — Mollie Show, See Monday**  
**B — Amos 'n' Andy, See Monday**  
**F — Organ Recital, See Monday**

**E-7:15 p. m., C-6:15, M-5:15, P-4:15**  
**C — Just Plain Bill, See Monday**

**R — Billy Bachelor, See Monday**

**E-7:30 p. m., C-6:30, M-5:30, P-4:30**  
**C — Music in Air, See Monday**

**B — Scott's Emulsion Circus Days**  
KDKA KWK WBAL WBZ WBZA WENR WGAR WHAM WJR WJZ WLW WMAL WREN

**F — Anlon Young, Baritone**  
Stations same as 6:30 Monday

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

**R — Goldbergs, See Monday**  
**B — Irene Rich, See Wednesday**

**E-8:00 p. m., C-7:00, M-6:00, P-5:00**  
**C — Happy Bakers, See Monday**

**R — Cities Service Concert**  
CHCT KDYL KOA KPRC KSD KTBS KTHS KYW WBSN WCAE WCSI WDAF WEAF WEGS WEEI WFAA WFBR WGY WHO WJAR WJAX WLIT WQAI WQC WOW WRC WRVA WSAI WTAG WTAM WTIC WTMJ WSJ

**B — Nestle's with Ethel Shutta**  
KDKA KWK WBAL WBZ WBZA WCKY WGAR WJR WJZ WLS WMAL WSYR

**F — Allan Clifton's Salon Orchestra**  
Stations same as 8:00 Monday

**E-8:15 p. m., C-7:15, M-6:15, P-5:15**  
**C — Edwin C. Hill, See Monday**

**E-8:30 p. m., C-7:30, M-6:30, P-5:30**  
**C — March of Time**

CKLW KDB KERK KFBK KFPY KPRC KGB KHJ KLZ KMBC KMJ KMOX KOIN KOL KSL KTRH KVI KWG WABC WCAO WCAU WCCO WDRC WDSU WEAN WFBL WFBM WGN WGR WGST WHAS WHK WJAS WJSV WKCW WNAC WOKO WSPD

**F — Jimmy Johnson, Xylophonist**  
Stations same as 6:30 Monday

**E-8:45 p. m., C-7:45, M-6:45, P-5:45**  
**B — Red Davis, See Monday**

**E-9:00 p. m., C-8:00, M-7:00, P-6:00**  
**C — Irvin S. Cobb, See Wednesday**

**R — Fred Allen's Revue**  
KSD WBSN WCSI WEAF WEEI WFBR WGY WJAR WLIT WLW



**FRIDAY—(Continued)**

WMAQ WRC WTAG WTAM WTIC  
WVJ

**B — Phil Harris and Orchestra**

CFCE KDKA KDYL KFI KGHL  
KGR KSO KGW KHQ KOA KOIL  
KOMO KGO KWCR KWK WAPI  
WBAL WBZ WBZA WCKY WFAA  
WGAR WJZ WKY WLS WMAL  
WVAI WREN WSB WSM WSMB  
WSYR

**F — Jack Dale, Tenor**

Stations same as 9:00 Monday

**E-9:15 p. m., C-8:15, M-7:15, P-6:15**

**C — Threads of Happiness**

CKLW KDB KERN KFBK KFH  
KFPY KPRC KGB KHJ KLZ KMBC  
KMOX KJG KMOX KOIN KOL  
KOMA KSL KTRH KTAT KTSa KVI  
KWG WABC WADC WBRC WBT  
WCAO WCAU WCCO WDAE WDRC  
WDSU WEAN WFBL WFBM WGN  
WGST WHAS WHK WJZ WJSV  
WKBW WKRC WLAC WNAC WOKO  
WOWO WREC WRR WSPD WTAR  
WTIC

**F — Gentleman Jim, Comedian**

Stations same as 9:00 Monday

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

**C — All America Football Show**

CKLW KDB KERN KFBK KFH  
KFPY KPRC KGB KHJ KLZ KMBC  
KMOX KJG KMOX KOIN KOL  
KOMA KSL KTRH KTSa KVI KWG  
WABC WACO WADC WBBM WBT  
WCAH WCAO WCAU WCCO WDRC  
WEAN WFBL WFBM WGR WGST  
WHAS WHDC WHK WHP WIBW  
WJAZ WJSV WKRC WLAC WMBG  
WMT WNAC WPD WORC WOWO  
WREC WSPD WTAR

**R — Pond's Program; Lee Wiley**

KSD WBEN WCAE WCHS WDAF  
WEAF WFBZ WGY WHO WJAR  
WLIT WMAQ WOC WOW WRC WSAI  
WTAG WTAM WTIC WVJ

**B — Armour Program; Phil Baker**

KDKA KDYL KFI KGO KGW KHQ  
KOA KOIL KOMO KPRC KSO KSTP  
KTAR KWK WAPI WBAL WBZ  
WBZA WBEZ WENR WFAA WGAR  
WHAM WIOD WJAZ WJR WJZ  
WKY WMC WOAI WENR WRVA  
WSB WSM WSMB WTMJ WWNC

**F — Gems from Lyric Stage**

Stations same as 9:00 Monday

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

**C — Swift Revue—Olson and Johnson**

CKLW KDB KERN KFBK KFPY  
KPRC KGB KHJ KLZ KMBC KJG  
KMOX KOIN KOL KOMA KRLD  
KSCJ KSL KTRH KVI KWG WABC  
WADC WBBM WBRC WBT WCAO  
WCAU WCCO WDRC WEAN WFBL  
WGST WHAS WHK WJAZ WJSV  
WKBW WKRC WNAC WOKO WOWO  
WREC

**R — First Nighter—Drama**

CRCT KDYL KFI KGO KGW KHQ  
KOA KOMO KPRC KSD KSTP  
WAPI WBEN WCAE WCHS WDAF  
WEAF WBEZ WEEI WFBZ WGY  
WHO WJAR WKY WLIT WMAQ  
WOAI WOC WOW WRC WSAI WSB  
WSM WSMB WTAG WTAM WTIC  
WTMJ WVJ

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

**C — Alexander Woolcott, See Wednesday**

**R — Lum and Abner's Sociable**

KFYR KSD WBEN WCAE WCHS  
WDAF WDAY WEAF WEEI WENR  
WFBZ WGY WHO WIBA WJAR  
WKBF WLIT WLW WOC WOW  
WRC WTAG WTAM WTIC WTMJ

**B — Mario Cozzi, Baritone**

KDKA KFYR KOIL KSO WAPI  
WBAL WBZ WBZA WCKY WDAY  
WBEZ WFLA WHAM WIBA WIOD  
WIS WJAZ WJR WJZ WREN WSB  
WSM WSYR WWNC

**F — Billy Bissett's Orchestra**

Stations same as 9:00 Monday

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

**C — Myrt and Marge, See Monday**

**B — Headline Hunter; Floyd Gibbons**

KDKA KFYR KSO WAPI WBAL  
WBZ WBZA WCKY WDAY WBEZ  
WFLA WHAM WIBA WIOD WIS  
WJAZ WJR WJZ WREN WSB WSM  
WSYR WWNC

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

**C — Howard Barlow, See Monday**

**B — Ames 'n' Andy, See Monday**

**F — Souvenirs—Robert Forest**

Stations same as 9:00 Monday

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

**C — Columbia News Service, See Monday**

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

**C — Isha m Jones, See Tuesday**

**E-12:15 a. m., C-11:15, M-10:15, P-9:15**

**R — Fred Allen's Revue**

KDYL KFI KPSD KGO KGW KHQ  
KOA KOMO KTAR WDAF

**SATURDAY**

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

**C — Meet the Artist**

CFRB CKLW KFH KFLA KMBC  
KOMA KSL KTRH KTSa KFOR  
WAAB WABC WACO WADC WBBM  
WBRG WBRC WCAO WCCO WDBJ  
WDSU WFBL WFEA WGR WGST  
WHAS WHDC WHK WHP WIBW  
WICC WIP WISN WJAZ WJSV  
WLAC WLWB WLZ WMBG WMT WOKO  
WQAM WREC WSBT WSFA WSJS  
WTAQ WTAR WTOC WVVA

**B — Richard Himber, See Monday**

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

**C — George Hall and Orchestra**

CFRB CKLW KFH KFLA KMBC  
KMOX KOMA KSL KTRH KTSa  
KFOR WAAB WACO WADC WBIG  
WBRC WCAO WCCO WDBJ WDSU  
WFEA WGR WGST WHAS WHP  
WIBW WICC WIP WISN WJAZ  
WJSV WLAC WLWB WLZ WMBG  
WOKO WQAM WREC WSBT WSFA  
WSJS WTAQ WTAR WTOC WVVA

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

**C — Eddie Dooley, See Thursday**

**B — O'Leary's Irish Minstrels**

KOIL KSO KWCR WBAL WBZ  
WCKY WENR WHAM WJZ WMAL  
WREN WSYR

**F — Dinner Hour, See Monday**

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

**C — Tito Guizar, Tenor**

CKLW KFLA KLZ KMBC KMOX  
KRLD KSL KTRH KTSa KFOR  
WAAB WABC WACO WADC WBIG  
WBRC WCAO WCAU WCCO WDBJ

WDSU WFBL WFBM WFEA WGST  
WHAS WHEC WHP WIBW WICC  
WISN WJSV WKBW WLAC WLWB  
WLWB WMBG WMT WOKO WQAM  
WREC WSBT WSFA WSJS WTAQ  
WTAR WTOC WVVA

**R — Twenty Fingers of Harmony**

CRCT KDYL KOA KSD WBEN  
WCAE WCHS WEAF WFBZ WFI  
WGY WHO WIS WJAR WJAZ WJDX  
WMAQ WMC WOC WOW WRC  
WRVA WSAI WSB WSM WSMB  
WTAG WVJ WWNC

**B — Flying with Capt. Al Williams**

WBAL WBZ WBZA WCKY WGAR  
WHAM WJR WJZ WSYR

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

**C — Frederic William Wile**

CKLW KFH KFLA KLZ KMBC  
KRLD KSL KTRH KTSa KFOR  
WABC WACO WADC WBBM WBIG  
WBRC WCAO WCAU WDBJ WDSU  
WEAN WFBL WFEA WGR WGST  
WHEC WHK WIBW WICC WISN  
WJAZ WJSV WLAC WLWB WJZ  
WMBG WMT WOKO WQAM WREC  
WSBT WSFA WSJS WTAQ WTAR  
WTOC WVVA

**F — Rex Battle**

Stations same as 6:30 Monday

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

**C — Mildred Bailey**

CFRB CKLW KFH KFLA KMBC  
KMOX KOMA KTRH KTSa KFOR  
WABC WACO WADC WBBM WBIG  
WBRC WCAO WCAU WDBJ WDSU  
WEAN WFBL WFBM WFEA WGR  
WGST WHEC WHK WHP WIBW  
WICC WISN WJAZ WJSV WLAC  
WLWB WLZ WMBG WNAC WOKO  
WQAM WREC WSBT WSFA WSJS  
WTAQ WTAR WVVA

**R — Meyer Davis and Orchestra**

CRCT KSD WCAE WEAF WFI WHO  
WJAR WOC WRC WTAG

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

**C — Jane Froman; Charles Carlie**

WABC WDRC WEAN WFBL WFEA  
WGR WJSV WLZ WNAC WOKO  
**R — Optimistic Mrs. Jones**  
KFI KGO KGW KHQ KOA KOMO  
KSD WBEN WCAE WDAF WFAF  
WEEI WFBZ WFI WGY WHO WJAR  
WOC WRC WTAG WTAM WVJ

**B — Circus Days, See Friday**

**F — Sous les Ponts de Paris**

CFRO CFCH CFOO CFYF CFNB  
CFJL CHGS CHLP CHNS CHRC  
CJCB CKAC CKCH CKNC CKOC  
CKPC CKPR CRCA CRCO CRCS  
CRCT

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

**R — Jack and Loretta Clemens**

KDYL KFI KGO KGW KHQ KOA  
KOMO KSD WBEN WCHS WDAF  
WEAF WEEI WFBZ WGY WJAR  
WOW WRC WSAI WTAG WTAM  
WVJ

**B — Annie, Judy and Zeke-Hillbilly**

CFCE KFYR KOIL KPRC KSO  
KSTP KTBS KTHS KWCR WBAL  
WBAP WCKY WENR WHAM WIBA  
WIOD WIS WJR WJZ WKY WMAL  
WMC WOAI WREN WRVA WSB  
WSM WSMB WSYR WWNC

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

**C — Elmer E. Yess, See Tuesday**

**R — K-7—Drama**

KSD KYW WBEN WCHS WDAF

**SATURDAY—(Continued)**

WEAF WBEI WFBR WGY WJAR  
WOW WRC WTAG WTAM WWJ  
**F — Maurice Meerte's Orchestra**  
Stations same as 6:30 Monday

**E-8:15 p. m., C-7:15, M-6:15, P-5:15**  
**C — Gertrude Nielsen, Songs**  
CFRB CKLW KFH KLRA KLZ KMBC  
KMOX KOMA KSL KTRH KTSa  
KVOR WABC WCAO WADC WBIG  
WBRC WCAO WCCO WDBJ WDSU  
WEAN WFBL WFBR WFEA WGR  
WGST WHEC WHP WIBW WICC  
WIP WISN WJAS WJSV WLAC  
WLWB WLZ WMBG WMT WNAC  
WOKO WPG WQAM WREC WSBT  
WSJS WTAQ WTAR WTOC WWVA

**E-8:30 p. m., C-7:30, M-6:30, P-5:30**  
**C — Phil Sitalny's Orchestra**  
CFRB CKLW KFH KLRA KLZ  
KMBC KMOX KOMA KSL KTRH  
KTSa KVOR WABC WADC WBIG  
WBRC WCAO WCCO WDBJ WDSU  
WEAN WFBL WFBR WFEA WGR  
WGST WHEC WHK WHP WIBW  
WICC WISN WJAS WJSV WLAC  
WLWB WLZ WMBG WMT WNAC  
WOKO WPG WQAM WREC WSBT  
WSJS WTAQ WTAR WTOC WWVA

**R — Antobal's Cubans**  
KDYL KFI KGO KGW KHQ KOA  
KOMO KPRC KSD KTBS KTHS  
KVOO WCSH WDAF WDAY WFAE  
WIBC WFAA WFBW WFLA WGY  
WIO WIBA WIS WJAR WJAX  
WJDX WKY WMAQ WMC WOAI  
WOC WRC WRVA WSAI WSB WSM  
WSMB WTAG WTAM WWJ WWCN  
**S — Sous Les Ponts de Paris**  
KDKA KOIL KSO KWCR KYW  
WBAL WBZ WBZA WCKY WGAR  
WHAM WJR WJZ WMAL WREN  
WSYR

**F — Harmonica Band; Round-Up  
Rangers**  
Stations same as 9:00 Monday

**E-9:00 p. m., C-8:00, M-7:00, P-6:00**  
**C — Elder Michaux and Congregation**  
CFRB CKLW KFH KLRA KLZ  
KMBC KMOX KOMA KSL KTRH  
KTSa KVOR WABC WADC WBIG  
WBRC WCAO WCAU WCCO WDBJ  
WDSU WEAN WFBL WFBR WFEA  
WGST WHAS WHEC WHP WIBW  
WICC WISN WJAS WJSV WKRW  
WLAC WLWB WLZ WMBD WMBG  
WMT WNAC WOKO WQAM WREC  
WSBT WSJS WTAQ WTAR WTOC WWVA  
**R — Lucky Strike—Jack Pearl**  
KDYL KFSB KFYR KGO KGU KGW  
KHQ KOA KOMO KPRC KSD KSTP  
KTAR KTBS KTHS WAPI WBAP  
WREN WCAE WCSH WDAF WDAY  
WEAF WECB WEEI WFBR WFI  
WFLA WGY WIBA WIOD WIS WJAR  
WJAX WJDX WKY WLW WMAQ  
WMC WOAI WOW WRC WRVA WSB  
WSMB WTAG WTAM WTMJ WWJ  
WWNC

**B — Jamboree—Variety Show**  
KDKA KOIL KSO KWCR KWK KYW  
WBAL WCKY WGAR WHAM WJR  
WJZ WMAL WREN WSYR  
**F — Concert Program**  
Stations same as 9:00 Monday

**E-9:15 p. m., C-8:15, M-7:15, P-6:15**  
**F — Events of Canadian Interest**  
Stations same as 9:00 Monday

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

**C — Symphonic Strings**  
CFAC CFBO CFCE CFCH CFEN  
CFCC CFYQ CFJQ CFJN CFPL CFQC  
CFAB CHGS CHNS CHRC CHWC  
CHWK CJRA CJCB CJCH CJGN  
CJOC CJRM CJRW CJKH CKOK  
CKNC CKOC CKOV CKPC CKRP  
CKTA CKX CKYX CRCA CRCO  
CHGS CRCT CRCY CKLW KTH  
KLRA KLZ KMBC KMOX KOMA  
KRLD KSL KTRH KTSa KVOR  
WABC WADC WBIG WBRU WABC  
WCCO WDBJ WDSU WEAN WFBL  
WFBR WFEA WGSB WHAS WHEC  
WHR WHP WIBW WICC WJAS WJSV  
WKRW WLAC WLWB WLZ WMBG  
WMT WNAC WOKO WQAM WREC  
WSBT WSJS WTAQ WTAR WTOC WWVA  
**R — Leo Reisman's Yacht Club Boys**  
WREN WCAE WCSH WDAF WFAE  
WFEI WFBR WFI WGY WHO WJAR  
WMAQ WOC WOAI WWC WWSJ  
WTAG WTAM WWJ

**E-10:00 p. m., C-9:00, M-8:00, P-7:00**  
**C — Columbia Public Affairs Institute**

CFRB CKLW KLRA KLZ KMBC  
KMOX KOMA KSL KTRH KTSa  
KVOR WAAB WABC WADC WBIG  
WBRC WCAO WCCO WDBJ WDSU  
WEAN WFBL WFBR WFEA WGR  
WGST WHAS WHEC WHP WIBW WICC  
WJAS WJSV WKRW WLAC WLWB  
WLZ WMBD WMBG WMT WOKO  
WPG WQAM WREC WJSJ WTAQ  
WTOC WWVA

**B — A. Rolfe and Orchestra**  
CRCT KDYL KFI KGO KGW KOA  
KOMO KSD KSTP WBAP WBBN  
WCAE WCSH WDAF WFAE WFEI  
WFBW WFI WGY WHO WJAR WJAX  
WLW WMAQ WOAI WOC WOW  
WRC WRVA WSB WSMB WTAG  
WTAM WTMJ WWJ

**B — Tales of the Titans—Drama**  
KDKA KOIL KWCR KWK KYW  
WBAL WBZ WBZA WCKY WGAR  
WHAM WJR WJZ WMAL WREN  
WSYR

**F — Earle Hill's Orchestra**  
Stations same as 9:00 Monday

**E-10:15 p. m., C-9:15, M-8:15, P-7:15**  
**C — Ann Leaf at Organ**

CFRB CKLW KFH KLRA KLZ  
KMBC KOMA KRLD KSL KTRH  
KTSa KVOR WAAB WABC WADC  
WBIG WBRC WCAO WCAU WCCO  
WDBJ WDSU WEAN WFBL WFEA  
WGST WHEC WHP WIBW WICC  
WJAS WJSV WKRW WLAC WLWB  
WLZ WMBD WMBG WOKO WPG  
WQAM WREC WSJS WTAQ WTOC  
WWVA

**E-10:30 p. m., C-9:30, M-8:30, P-7:30**  
**C — George Jessel**

CFRB CKLW KFH KLRA KLZ  
KMBC KMOX KOMA KRLD KTRH  
KTSa KVOR WAAB WABC WADC  
WBIG WBRC WCAO WCAU WCCO  
WDBJ WDSU WEAN WFBR WFEA  
WGST WHAS WHEC WHK WHP  
WIBW WICC WISN WJAS WJSV  
WKRW WLAC WLWB WLZ WMBD  
WMBG WOKO WPG WQAM WREC  
WSBT WSJS WTAQ WTOC WWVA

**B — Cuckoo—Ray Knight**  
KOIL KSO KWCR KYW WBAL WBZ  
WBAL WCKY WGAR WJZ WMAL  
WREN WSYR

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

**C — Isham Jones and Orchestra**  
CFRB CKLW KLRA KLZ KMBC  
KMOX KOMA KTRH KTSa KVOR  
WAAB WABC WADC WBIG WBRC  
WCAO WCAU WCCO WDBJ WDSU  
WEAN WFBL WFBR WGSB WHAS  
WHP WIBW WICC WISN WJSV  
WKRW WLAC WLWB WLZ WMBD  
WMBG WMT WOKO WPG  
WQAM WREC WSBT WSJS WTAQ  
WTOC

**R — One Man's Family—Sketch**  
CFRC KDYL KFI KFYR KGO KGW  
KHQ KOA KOMO KPO KPRC KSD  
KSTP KTBS KTHS KVOO WBBN  
WCAE WDAF WDAY WFAE WFBW  
WFI WFLA WGY WHO WIBA WIOD  
WIS WJAR WJAX WJDX WKY  
WMAQ WMC WOAI WOC WOW  
WRC WRVA WSAI WSB WSMB  
WTAG WTAM WWJ WWCN

**B — WLS Barn Dance**  
KDKA KOIL KSO KWCR KWK WBZ  
WBZA WGAR WHAM WJR WJZ  
WLW WLW WMAL WREN WSYR  
**F — Saturday Night Frolic**  
Stations same as 9:00 Monday

**E-11:15 p. m., C-10:15, M-9:15, P-8:15**  
**C — Elmer E. Yess, See Tuesday**

**E-11:30 p. m., C-10:30, M-9:30, P-8:30**  
**C — Glen Gray and Orchestra**

CFRB CKLW KLRA KLZ KMBC  
KOMA KSL KTRH KTSa KVOR  
WABC WADC WBRC WCAO WDBJ  
WDSU WEAN WFBL WFBR WGSB  
WHEC WHP WIBW WIP WISN  
WJSV WKRW WLAC WLWB WLZ  
WMBD WMBG WMT WNAC WOKO  
WPG WQAM WREC WSBT WSJS  
WTOC

**SUNDAY**

**E-11:15 a. m., C-10:15, M-9:15, P-8:15**

**R — Major Bowes' Capitol Family**  
KDYL KFYR KOA KPRC KSTP  
KTBS KVOO WAPI WCAE WDAF  
WDAY WFAE WFCB WFAA WFBW  
WFLA WGY WHO WIOD WJAR  
WJAX WKY WMAQ WMC WOAI  
WOC WRC WRVA WSAI WSMB  
WTAG WTAM WWCN

**E-11:30 a. m., C-10:30, M-9:30, P-8:30**  
**C — Salt Lake Tabernacle Choir**

CKLW KLRA KLZ KMBC KOMA  
KSL KTRH KTSa KVOR WABC  
WACO WADC WBIG WBRC WCAO  
WCCO WDBJ WDRC WDSU WEAN  
WFBL WFEA WGN WGR WGST  
WHAS WHEC WHP WIBW WICC  
WISN WJAS WJSV WLAC WLWB  
WMBD WMT WNAC WOKO WORC  
WPG WQAM WSBT WSFA WSJS  
WTAQ WTAR WWVA

**E-12:15 p. m., C-11:15, M-10:15, P-9:15**  
**R — Seeing the Other Americas**

KDYL KFSB KFYR KGO KHQ KOA  
KOMO KPRC KSTP KVoo WAPI  
WBAP WBBN WCSH WDAY WFAE  
WFCB WFI WFLA WGY WHO WIBA  
WIOD WIS WJAR WJAX WJDX  
WMC WOAI WOC WRC WSAI WSB  
WSMB WTAG WTAM

**E-12:30 p. m., C-11:30, M-10:30, P-9:30**  
**C — Tito Guizar's Serenade**

WABC WCAU WDRC WEAN WFEA  
WLZ WNAC WORC

SUNDAY—(Continued)

**B—Radio City Concert**  
CFCE CRCT KDKA KDYL KFI  
KFYR KGO KGW KHQ KOA KOIL  
KOMO KPRC KSO KVOO WAPI  
WBAL WBZ WBZA WCKY WDAY  
WEBC WGAR WHAM WIS WJDX  
WJR WJZ WKY WMAL WOAI WREN  
WSMB WSYR WWNC

**E-12:45 p. m., C-11:45, M-10:45, P-9:45**  
**C—Madison Ensemble**  
CFRB CKLW KLRA KLZ KMBC  
KOMA KSL KTRH KVOR WACO  
WADC WBGW WCAO WCAU WDBJ  
WDRG WDSU WEAN WFBL WFEA  
WGR WGST WHAS WHEC WIBW  
WISN WJAS WJSV WLAC WLWB  
WMBD WMT WNAC WOKO WPG  
WQAM WREC WSBT WSJS WTAQ  
WTAR WTOG WWVA

**E-1:00 p. m., C-12:00, M-11:00, P-10:00**  
**C—Church of the Air**  
CFRB CKLW KLRA KLZ KOMA  
KTRH KTSB KVOR WAAB WABC  
WACO WADC WCCO WDBJ WDRG  
WDSU WFBL WGR WGST WHAS  
WHEC WHP WIBW WJAS WJSV  
WLAC WLWB WMT WOKO WPG  
WQAM WREC WSBT WSJS WTAQ  
WTAR WTOG WWVA

**E-1:30 p. m., C-12:30, M-11:30, P-10:30**  
**C—Lazy Dan, Minstrel Man**  
CKLW KMBC KMOX KRLL WABC  
WBBM WCAH WCAO WCAU WCCO  
WHAS WHK WJAS WJSV WKBW  
WKRC WMBG  
**R—Sonata Recital**  
CFCE CRCT WBN WCAE WCSH  
WDAF WFAE WFEI WFBR WFI  
WGY WHO WJAR WLW WMAQ  
WOC WRC WTAG WTAM WWJ

**B—Highlights of the Bible**  
KDKA KDYL KFI KFYR KGHL  
KGIR KGO KGW KOA KOIL KOMO  
KPRC KSO KVOO KWK WAPI WBAL  
WBZ WBZA WDAY WDCB WHAM  
WIOD WIS WJAX WJDX WJR WJZ  
WMAL WOAI WREN WRVA WSM  
WSMB WSYR WWNC

**E-2:00 p. m., C-1:00, M-12:00, P-11:00**  
**C—Broadway Melodies; Helen Morgan**  
CFRB CKLW KDB KFPY KFRC  
KGB KHJ KLZ KMBC KMOX KOIN  
KOL KRLL KSL KVI WABC WBBM  
WCAO WCAU WCCO WDSU WJAX  
WJAS WJSV WKBW WKRC WLAC  
WNAC

**R—Gene Arnold and Commodores**  
KDYL KFI KGO KGW KHQ KOA  
KOMO KPRC KVOO WBN WCAE  
WCSH WFAE WFCB WFEI WFAA  
WFBR WGY WJAX WJAR WKY  
WLW WMAQ WOAI WOW WPTF  
WRC WRVA WTAG WTAM WWJ  
WWNC

**B—Autumn Idyll**  
CFCE CRCT KFI KFYR KGO KGW  
KHQ KOA KOIL KOMO KSO KSTP  
KTBS KTHS KVOO KWRG KWK  
KYW WAPI WBAL WBZ WBZA  
WCKY WDAY WFSB WFAA WFLA  
WGAR WIOD WIS WJAX WJDX  
WJR WJZ WKY WLW WMAL WMC  
WOAI WREN WBS WSM WSMB  
WSYR WWNC

**E-2:30 p. m., C-1:30, M-12:30, P-11:30**  
**C—Abe Lyman's Orchestra**  
CFRB CKLW KMBC KMOX WABC  
WBBM WCAO WCAU WCCO WDRG  
WBN WFBL WTBM WHEC WHK  
WJW WKBW WKRC WNAC WOKO  
**B—Yeast Foamers; Jan Garber**  
KDKA KDYL KFI KFSD KFYR  
KGHL KGIR KGO KGW KHQ KOA  
KOIL KOMO KPRC KSO KSTP  
KTBS KTHS KTHS KVOO KWRG  
KWK KYW WAPI WBAL WBZ WBZA  
WDAY WFCB WFLA WFLA WGAR  
WHAM WJAX WJDX WJZ WJZ  
WMAL WMC WOAI WPTF WREN  
WRVA WSB WSM WSMB WSYR  
WTMJ WWNC

**E-2:45 p. m., C-1:45, M-12:45, P-11:45**  
**R—Gems of Melody; Muriel Wilson**  
WBN WCAE WCSH WDAF WFAE  
WFEI WFBR WGY WHO WJAR  
WMAQ WOC WOW WRC WSAI  
WTAG WTAM WWJ

**E-3:00 p. m., C-4:00, M-1:00, P-12:00**  
**C—New York Philharmonic Orch.**  
CFAC CFBO CFCE CFCH CFCL  
CFCO CFCE CFJC CFNB CFPL  
CFQC CHAB CHGS CHNS CHPL  
CHWC CHWK CJCA CJCB CJCJ  
CJGX CJOC CJRM CJRW CKHJ  
CKCK CKNC CKOC CKOV CKPC  
CKPR CKTA CKX CKY CRCA  
CRCC CRHS CRCT CRCV CRFB  
CRKW CRLL KLRA KLZ KMBC  
KMOX KOMA KSL KTRH KTSB  
KVOR WABC WADC WBIG WBHC  
WCAO WCAU WCCO WDBJ WDRG  
WDSU WEAN WFBM WFLA WGN  
WGR WGST WHAS WHEC WHK  
WHP WIBW WICC WIP WISN WJAS  
WJSV WLAC WLWB WMBD WMBG  
WMT WNAC WOKO WORC WQAM  
WREC WSBT WSJS WTAQ WTAR  
WTOG WWVA

**R—Wayne King and Orchestra**  
KDYL KFI KGO KGW KHQ KOA  
KOMO KPRC KSD KSTP KVOO  
WBN WCAE WCSH WDAF WFAE  
WFEI WFAA WGY WHO WJAR  
WKBW WKY WLIT WLS WLW  
WOAI WOC WOW WRC WTAG  
WTAM WTAM WWJ

**B—National Opera Concert**  
CFCE CRCT KDKA KOIL KSO  
KWCN KWK WBAL WBZ WBZA  
WCKY WFLA WGAR WHAM WIOD  
WIS WJAX WJDX WJR WJZ WMAL  
WMC WREN WRVA WSB WSM  
WSMB WSYR WWNC

**E-3:30 p. m., C-2:30, M-1:30, P-12:30**  
**R—Radio Pulpit**  
KDYL KFI KFSD KFYR KGHL  
KGIR KGO KGW KHQ KOMO KPRC  
KTBS KTHS KVOO KYW WAPI  
WBN WCAE WCSH WDAF WDAY  
WFAE WFCB WFEI WFAA WFBR  
WFLA WGY WJAX WJDX WJZ WJZ  
WJZ WJZ WKY WLIT WOAI  
WOW WRC WRVA WSA WSB WSM  
WTAG WTAM WWJ WWNC

**E-4:00 p. m., C-3:00, M-2:00, P-1:00**  
**R—Fiddlers Three**  
CFCE CRCT KDYL KFI KFSD  
KFI KFYR KGO KGW KHQ KOA KOMO  
KSD KSTP KTHS KTHS KYW  
WAPI WBN WCAE WDAF WDAY  
WFAE WFCB WFEI WFLA WGY  
WHO WJAX WJDX WIS WJAR  
WJDX WKY WLIT WOAI WOC

WOW WRC WRVA WSAI WSB WSM  
WTAG WTAM WWJ WWNC  
**Rev. Charles E. Coughlin**  
KMOX KSTP KYW WCAO WCAU  
WDRG WBN WFBL WFEA WGAR  
WGR WHB WHO WJCC WJAS WJR  
WLBB WLW WMAS WNAC WOC  
WOL WOR WORC  
**B—Gould and Shefter—Piano Duo**  
KDKA KOIL KWCN KWK WBAL  
WGAR WHAM WJZ WMAL WREN  
WSYR

**E-4:15 p. m., C-3:15, M-2:15, P-1:15**  
**R—Wildroot; Vee and Johnny**  
KDYL KFI KFYR KGO KGW KHQ  
KOA KOMO KPRC KTBS KVOO  
WBN WCAE WCSH WDAF WDAY  
WEAF WFCB WFEI WFAA WFBR  
WGY WJAX WJAR WKY WLIT WLS  
WOAI WOW WRC WSAI WTAG  
WTAM WTAM WWJ

**B—Morris Sisters, Harmony Trio**  
CFCE CRCT KDKA KOIL KSO  
KWCN KWK KYW WBAL WBZ  
WBZA WCKY WFLA WGAR WHAM  
WIOD WJAX WJDX WJR WJZ WLW  
WMAL WREN WRVA WSB WSM  
WSYR WWNC

**E-4:30 p. m., C-3:30, M-2:30, P-1:30**  
**R—Hoover Sentinels**  
CFCE CRCT KDYL KFI KGO KGW  
KHQ KOA KOMO KPRC KVOO  
WBAP WBN WCAE WCSH WDAF  
WEAF WFCB WFEI WFBR WFI  
WGY WJAX WJAR WKY WMAQ  
WOAI WOW WRC WTAG WTAM  
WWJ

**B—Dion Kennedy, Organist**  
CFCE CRCT KDKA KFSD KFYR  
KGO KGW KHQ KOA KOIL KOMO  
KPRC KSO KSTP KTBS KVOO  
KWCN KWK KYW WBAL WBZ  
WBZA WCKY WDAY WFCB WFAA  
WFLA WGAR WHAM WJAX WJDX  
WIS WJAX WJDX WJR WJZ WKY  
WMAL WMC WOAI WREN WRVA  
WSB WSM WSYR WWNC

**E-5:00 p. m., C-4:00, M-3:00, P-2:00**  
**C—Roses and Drums, Drama**  
CKLW KFAB KLRA KLZ KMBC  
KMOX KOMA KRLL KTRH KTSB  
WAAB WABC WADC WBBM WBRC  
WCCO WDSU WGST WHAS WHK  
WJAS WJSV WKRC WREC

**R—Big Ben Dream Drama**  
WBN WCAE WCSH WDAF WFAE  
WFEI WFBR WGY WJAR WMAQ  
WOW WRC WSAI WTAG WTAM  
WWJ

**B—Friendly Hour**  
KDYL KFSD KFYR KGHL KGIR  
KGO KGW KHQ KOA KOIL KPRC  
KSO KSTP KTHS KTHS KVOO  
KWCN KWK WBAL WBZ WBZA  
WCPB WCKY WDAY WFCB WFLA  
WGAR WHAM WJAX WJDX WJZ  
WJZ WJZ WKY WLIT WOAI  
WOW WRC WRVA WSA WSB WSM  
WSB WSMB WSYR WWNC

**F—Vesper Hour**  
Stations same as 9:00 Monday

**E-5:15 p. m., C-4:15, M-3:15, P-2:15**  
**R—Paul Ash and Orchestra**  
CFCE CRCT WBN WCAE WCSH  
WDAF WFAE WFEI WFBR WFI  
WGY WHO WJAR WOC WOW  
WRC WSAI WTAG WTAM WWJ

SUNDAY—(Continued)

E-5:30 p. m., C-4:30, M-3:30, P-2:30
C — Frank Crumit; Julia Sanderson
CKLW KFAB KFH KMBC KMOX
KOMA WAAB WABC WADC WCAH
WCAO WCAU WDRC WDSU WEAN
WFBL WFBM WGR WHBC WHK
WTOC WJSV WNAS WOKO WORC
WSPD WTAR WWVA
B — Talkie Picture Time — Sketch
WCAE WCSH WDAF WEAF WEEI
WFER WFI WGY WJAR WMAQ
WMC WOV WRC WSAI WSM WTAB
B — Grand Hotel — Drama
KDKA KDYL KFI KGO KGW KHQ
KOA KOIL KOMO KSO KSTP KWCR
KWK WBAL WBZ WBZA WCKY
WIBC WENR WGAR WHAM WJR
WJZ WKBF WMAL WREN WSYR
WTMJ

E-6:30 p. m., C-5:00, M-4:00, P-3:00
C — Jacques Renard's Orchestra
CKLW KMBC KMOX WABC WBBM
WCAO WCAU WCCO WFBM WGR
WHK WJAS WJSV WKRC
R — Catholic Hour
KDYL KECA KFYR KGHJ KGIR
KGW KOA KOMO KPO KPRC
KSTP KTAR KTBS KVOO WAPI
WBAF WBNB WCAE WCSH WDAF
WDAY WEAF WEEB WEEI WENR
WFER WFLA WGY WHO WIBA
WIOD WIS WJAR WJAX WJDX
WKY WLIT WMC WOAI WOC WOW
WRC WRVA WSAI WSB WSM
WSMB WTAG WTAM WWJ WWNC
B — Richard Himber and Orchestra
CFPC CRCT KDKA KOIL KSO
KWCR KWK WBAL WCKY WGAR
WHAM WJR WJZ WMAL WMAQ
WREN

E-6:30 p. m., C-5:30, M-4:30, P-3:30
C — Smiling Ed McConnell
CKLW KDB KERN KFAB KFBK
KFH KFPY KFRG KGB KILJ KIZ
KMBC KMOX KOIN KOL KRLD
KSL KVI KGW WAAB WAHC WBBM
WBT WCAH WCAU WCCO WDSU
WEAN WFBL WHAS WHBC WHP
WJAS WJSV WKBW WKRC WLAC
WMT WOKO WQAM WSPD WTAR
WWVA
R — Our American Schools
CFPC CRCT KDYL KECA KFSD
KFYR KGW KOMO KPO KPRC KSD
KSTP KTAR KTBS KVOO WAPI
WBAF WBNB WCAE WCSH WDAF
WDAY WEAF WEEB WEEI WFER
WFLA WGY WHO WIBA WIOD
WJAR WJAX WJDX WKY WLIT
WMAQ WMC WOAI WOC WRC
WRVA WSAI WSB WSM WSMB
WTAG WTAM WWJ WWNC
B — Henri Dearing, Concert Pianist
KDKA KOIL KSO KWCR KWK
WCKY WENR WGAR WHAM WJR
WJZ WLW WMAL WREN WSYR
F — Dinner Hour, See Monday

E-6:45 p. m., C-5:45, M-4:45, P-3:45
C — Willard Robison, Syncopated
Sermons
CKLW KEH KLRA KLZ KMBC
KMOX KOMA KRLD KSL KTRH
KTSB KVOR WJAB WAGO WADC
WBG WBRC WCAO WCCO WDBJ
WDRG WDSU WEAN WFBL WFEA
WGR WGST WHAS WHBC WHP
WIBW WICC WIP WJAS WJSV
WLAC WLBW WOKO WORC WQAM

WREC WSBT WSFA WSJS WTAQ
WTAR WTOG WWVA
B — Trio Romantique
KDKA KOIL KSO KWCR KWK
WOKY WENR WGAR WHAM WJR
WJZ WLW WMAL WREN WSYR

E-7:00 p. m., C-6:00, M-5:00, P-4:00
R — Blue Coal Program
CHCT WBNB WEAF WEEI WFER
WGY WJAR WLIT WRC WTAG
B — Vincent Lopez; Alice Joy
KDKA KDYL KFI KFYR KGO KGW
KHQ KOA KOIL KOMO KPRC KSO
KSTP KTHS KWCR KWK WBAL
WBZ WBZA WDAY WEEB WFAA
WGAR WHAM WIBA WJDX WJZ
WKY WLS WLW WMAL WOAI
WPTF WREN WSB WSM WSMB
WSYR WTMJ

E-7:15 p. m., C-6:15, M-5:15, P-4:15
C — The Gauchos; Tito Guizar
CKLW KEH KLRA KLZ KMBC
KMOX KOMA KSL KTRH KTSB
KVOR WABC WACO WADC WBG
WBRC WCAO WCAU WCCO WDBJ
WDRG WDSU WEAN WFBL WFBM
WFEA WGR WGST WHAS WHBC
WHP WIBW WICC WISN WJAS
WJSV WLAC WLBW WMT WNAC
WOKO WORC WPG WQAM WRC
WSBT WSFA WSJS WTAQ WTAR
WTOC WWVA

E-7:30 p. m., C-6:30, M-5:30, P-4:30
B — Ozzie Nelson; Joe Penner
KDKA KDYL KFI KFYR KGO KGW
KHQ KOA KOIL KOMO KPRC KSO
KSTP KTAR KVOO KWCR KWK
WBAL WBZ WBZA WDAY WEEB
WFAA WFLA WGAR WHAM WIBA
WIOD WJAX WJDX WJR WJZ WKY
WLS WLW WMAL WMC WOAI
WPTF WREN WRVA WSB WSM
WSMB WTMJ WWNC

E-7:45 p. m., C-6:45, M-5:45, P-4:45
C — Rin Tin Tin Thriller
CKLW KMOX WABC WCAU WFBL
WFBM WGN WGR WHAS WHK
WJAS WJSV WKRC WNAC
R — Fitch Program; Wendell Hall
CFPC KSD WBNB WCAE WCSH
WDAF WEAF WFER WGY WHO
WJAR WLIT WMAQ WOC WOW
WRC WSAI WTAG WTAM WWJ

E-8:00 p. m., C-7:00, M-6:00, P-5:00
C — Freddie Rich; Mildred Bailey
CKLW KLRA KLZ KMBC KMOX
KOMA KSL KTRH KTSB KVOR
WAAB WABC WACO WADC WBRC
WCAO WCAU WCCO WDBJ WDRG
WDSU WFBM WFEA WGR WGST
WHAS WHBC WHK WHP WIBW
WISN WJAS WJSV WLAC WLBW
WMT WOKO WORC WQAM WREC
WRFSA WSJS WTAR WTOG WWVA
R — Chase and Sanborn Hour
CFPC CHCT KDYL KFI KFYR KGO
KGW KHQ KOA KOMO KPRC KSD
KSTP KTAR KTHS KVOO WBNB
WCAE WCSH WDAF WDAY WEAF
WEEB WFAA WFER WFLA WGY
WHO WIOD WIS WJAX WJAZ
WMO WOL WOC WOW WPTF WRC
WRVA WSB WSM WSMB WTAG
WTAM WTC WTMJ WWJ WWNC
B — Light Opera Nights
KDKA KOIL KSO KWCR KWK
WBAL WBZ WBZA WCKY WGAR

WHAM WJR WJZ WLS WMAL
WREN WSYR
F — Albert Pratz, Violinist
Stations same as 6:30 Monday

E-9:00 p. m., C-8:00, M-7:00, P-6:00
C — Erno Rapee; Nino Martini
CKLW KDB KERN KFBK KFPY
KFRG KGB KHJ KLRA KLZ KMBC
KMJ KMOX KOIN KOL KOMA
KRLD KSCJ KSL KTRH KVI KGW
WABC WADC WBBM WCAO WCAU
WCCO WDRG WDSU WEAN WFBL
WFBM WGR WGST WHAS WHK
WISN WJAS WJSV WKRC WMT
WNAC WNAX WOKO WORC WOWO
WREC WSPD WTAR
R — Manhattan Merry-Go-Round
KDYL KFI KGO KGW KHQ KOA
KOMO KSD WDAF WEAF WFER
WFI WGY WHO WJAR WMAQ WOC
WOW WTC WSAI WTAM WTIC
WVJ
B — Gulf Headliners; Al Goodman
KDKA KPRC WBAL WBZ WBZA
WFAA WFLA WGAR WHAM WIOD
WIS WJAX WJDX WJR WJZ WLW
WMAL WMC WOAI WPTF WRVA
WSB WSM WSMB WSYR WWNC

E-9:30 p. m., C-8:30, M-7:30, P-6:30
R — Album of Familiar Music
CFPC CRCT KDYL KFI KGO KGW
KHQ KOA KOMO KPRC KSD KSTP
WAPI WBNB WCAE WCKY WCSH
WDAF WEAF WEEI WFAA WFER
WFI WFLA WGY WHO WIOD WJAR
WJAX WJDX WKY WMAQ WMC
WOAI WOC WOW WPTF WRC
WRVA WSAI WSB WSM WSMB
WTAG WTAM WTMJ WWJ
B — Walter Winchell
KDKA KOIL KSO KWCR KWK
WBAL WBZ WBZA WENR WGAR
WHAM WJR WJZ WLW WMAL
WREN WSYR

E-9:45 p. m., C-8:45, M-7:45, P-6:45
B — Novelists Quartet
KDKA KOIL KSO KWCR KWK KYW
WBAL WBZ WBZA WGAR WHAM
WJR WJZ WMAL WREN WSYR

E-10:00 p. m., C-9:00, M-8:00, P-7:00
R — Chevrolet; Jack Benny
KDYL KFI KSD KFYR KGHJ
KGIR KGO KGW KHQ KOA KOMO
KPRC KSTP KTAR KTBS WAPI
WBAF WBNB WCAE WCSH WDAF
WDAY WEAF WEEB WEEI WFER
WFI WFLA WGY WIBA WIOD WIS
WJAR WJDX WKY WMAQ WMC
WOAI WOW WRC WRVA WSB WSM
WSMB WTAG WTAM WTIC WTMJ
WWJ WWNC
B — Green Brothers Novelty Orch.
CFPC KDKA KOIL KSO KWCR
WBAL WENR WGAR WHAM WJZ
WMAL WREN
F — Chateau Laurier Musicale
Stations same as 9:00 Monday

E-10:30 p. m., C-9:30, M-8:30, P-7:30
C — Angelo Patri — "Your Child"
CKLW KDB KERN KFBK KFPY
KFRG KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KSL KVI KGW
WAAB WABC WCAO WCAU WCCO
WDRG WFBM WGN WGR WHAS
WHK WHAS WJSV WKRC WOKO
R — Col. Louis McHenry Howe
KDYL KFYR KGHJ KGIR KGO
KGW KHQ KOA KOMO KPRC KSD
KSTP KVOO WBNB WCAE WDAF

## SUNDAY—(Continued)

WDAY WFAF WEBC WEEL WFAA  
WFBR WFL WGY WHO WIBA WJAR  
WKY WMAQ WMC WOAI WOC  
WOW WRC WSAI WSB WSBM  
WTAG WTAM W TIC WTMJ WWJ  
**B — Phil Ducey, Baritone**  
KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WCKY WGAR  
WJR WJZ WLW WREN

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

**B — Mountain Music**  
CFCE KDKA KOIL KSO KWCR  
WBAL WENR WGAR WHAM WIOD  
WIS WJAX WJZ WMAL WREN  
WRVA WWNC

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

**C — Vincent Lopez and Orchestra**  
CFRB CKLW KPH KLRA KLZ

KMOX KOMA KSL KTRH K TSA  
WABC WACO WADC WBRG WCAO  
WDBJ WDRC WDSU WEAN WFBL  
WFBM WGR WGST WHAS WHEC  
WHK WHIP WICC WIP WISN WJAS  
WJSV WLAC WLWB WMBD WMT  
WNAC WOKO WPG WQAM WRC  
WSBT WSJS WTAR WTOG

**R — Sunday at Seth Parker's**

CRCT KDYL KESD KFJR KGHL  
KGRH KGO KGW KHQ KOA KOMO  
KPRC KSD KSTP KTAR KTBS KYW  
WAPI WBNB WCAE WCSH WDAF  
WDAY WFAF WEBC WEEL WFAA  
WFBR WFLA WGY WHO WIBA  
WIOD WIS WJAR WJAX WJDX  
WMC WOAI WOC WOW WPTF WRC  
WRVA WSAI WSB WSM WSBM  
WTAG WTAM WTMJ WWJ WWNC

**F — Fireside Hour**

Stations same as 9:00 Monday

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

**B — Roxanne Wallace, Contralto**  
KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WCKY WGAR  
WJR WJZ WLW WREN

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

**C — Joe Haymes and Orchestra**  
CFRB CKLW KFH KLRA KLZ  
KOMA KSL KTRH K TSA WABC  
WADC WBRG WCAO WCAU WDBJ  
WDRC WDSU WEAN WFBL WFBM  
WGR WGST WHAS WHEC WHK  
WHP WIBW WISN WJAS WJSV  
WLAC WLWB WMBD WMT WNAC  
WOKO WPG WQAM WREC WSBT  
WSJS WTAR WTOG

**B — Dick Messner and Orchestra**

KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WCKY WGAR  
WJR WJZ WLW WREN

# PROGRAM GOSSIP

The same manufacturer from the Middle West who named a shade of blue "Froman blue" because Jane Froman always wears it, has presented her with a lifetime supply of blue linen sheets and pillow cases.

Don't think Taylor Holmes, the fire chief's uncle, is acting when you hear that rickety laugh of his . . . that's the way he laughs in real life. Did you know that he's the father of Phillips Holmes, the famous movie star?

Frank Luther, of the Men About Town, is fussy about writing, and when a magazine asks for a story, Luther insists on writing it all by himself, with no help . . . Rudy Vallee's another who does that.

Whatever became of . . . Harry Snodgrass, the Wizard of the Ivories, who won his freedom from jail as a radio pianist to find a fortune on the stage? He broke all records when he played the Palace in Cleveland. The second time around he didn't mean a thing because the folks had already seen him. He is running a gasoline station and barbecue in the middle west today.

Moran and Mack . . . The early birds who got the worm. Popular over the air long before Amos 'n' Andy were known. They were the first comedy act to be recruited from

the stage for radio. They started to slip, gave way to guest stars and are now trying a comeback via the movies.

Russ Columbo . . . The singer of romantic songs, who faded with the decline of crooners. He's in Hollywood taking screen tests.

Redferne Hollinshead . . . Star of the Majestic hour and at one time the most popular tenor in radio. He still appears occasionally over Canadian stations.

Wendall Hall . . . The red-headed melodyman. He faded after the Majestic Hour. Is trying to return via a Chicago station.

Pickard Family . . . The flock of hillbillies. They're working on obscure southern stations.

Franklin Baur . . . The Voice of Firestone. Once a great tenor. When his voice started going down to baritone he retired with much money and is in the real estate business in Brooklyn.

Henry Burbig . . . The King of Dialecticians and the outstanding air comic of his time. A comeback failed last winter, so he's making recordings and a personal appearance now and then.

Olive Kline . . . The original La-Palina soprano over Columbia. Kate Smith has her place today.

# CLASSIFIED INDEX TO CHAIN PROGRAMS

*Time in Eastern Standard*

## CONCERTS

Autumn Idyll, 2:00 p. m., Sunday, B.  
Howard Barlow, 11:00 p. m., Mon., Tues. and Fri., C.  
Gauchos, 7:15 p. m., Sunday, C.  
Jules Lande, 10:30 p. m., Monday, R.  
Light Opera, 8:00 p. m., Sunday, B.  
Walter Logan, 6:00 p. m., Mon., Tues., Wed., and Fri., R.  
National Opera, 3:00 p. m., Sunday, B.  
N. Y. Philharmonic Symphony, 3:00 p. m., Sunday, C.  
Radio City Concert, 12:30 p. m., Sunday, B.  
Sonata Recital, 1:30 p. m., Sunday, R.  
Albert Spalding, 8:30 p. m., Wednesday, C.  
String Symphony, 8:00 p. m., Monday, B.  
Symphonic Strings, 9:30 p. m., Saturday, C.  
Trio Romantique, 6:45 p. m., Sunday, B.

## DANCE BANDS

Paul Ash, 5:15 p. m., Sunday, R.  
Ben Bernie, 9:00 p. m., and 12 mid., Tuesday, R.  
Meyer Davis, 7:15 p. m., Saturday, R.  
Jack Denny, 11:30 p. m., Wed., B.; 11:30 p. m., Thurs., R.  
Jan Garber, 2:30 p. m., Sunday, B.  
Roger Gerston, 6:00 p. m., Thursday, R.  
Al Goodman, 9:00 p. m., Sun., B.; 9:00 p. m., Wed. and Fri., C.  
Glen Gray, 11:30 p. m., Saturday, C.  
Green Brothers, 10:00 p. m., Sunday, B.  
George Hall, 6:15 p. m., Saturday, C.  
Phil Harris, 9:00 p. m., Friday, B.  
Joe Haymes, 11:30 p. m., Sun. and Mon., C.  
Richard Himber, 6:00 p. m., Sun., Mon., and Sat., B.  
Ernie Holst, 6:00 p. m., Wednesday, B.  
Isham Jones, 9:30 p. m., Mon.; 11:30 p. m., Tues., Thurs. and Fri.; 11:00 p. m., Sat., C.  
Wayne King, 9:30 p. m., Thurs., B.; 3:00 p. m., Sun.; 8:30 p. m., Tues., R.; 10:00 p. m., Mon., C.  
Guy Lombardo, 9:30 p. m., Wednesday, C.  
Vincent Lopez, 7:00 p. m., Sun., B.; 11:00 p. m., Sun., C.  
Abc Lyman, 8:30 p. m., Wed., R.; 2:30 p. m., Sun., C.  
Dick Messner, 11:30 p. m., Sun.; 6:00 p. m., Tues. and Thurs., B.  
Jack Miller, 6:00 p. m., Friday, C.  
Ozzie Nelson, 7:30 p. m., Sun., B.; 11:30 p. m., Wed., C.  
George Olsen, 8:00 p. m., Wednesday, R.  
Leo Reisman's, 9:30 p. m., Wed. and Sat., R.  
Freddie Rich, 8:00 p. m., Sunday, C.  
Willard Robison, 6:45 p. m., Sun.; 10:00 p. m., Thurs., C.  
B. A. Rolfe, 10:00 p. m., Saturday, R.  
Phil Spitalny, 8:30 p. m., Saturday, C.  
Rudy Vallee, 8:00 p. m., Thursday, R.  
Fred Waring, 10:00 p. m., Wednesday, C.  
Paul Whiteman, 11:30 p. m., Tues., B.; 10:00 p. m., Thurs., R.

## DIALOG

Fred Allen, 9:00 p. m. and 12:15 a. m., Friday, R.  
Amos 'n' Andy, 7:00 and 11: p. m., daily, ex. Sat. and Sun., B.  
Phil Baker, 9:30 p. m., Friday, B.  
Jack Benny, 10:00 p. m., Sunday, R.  
Burns and Allen, 9:30 p. m., Wednesday, C.  
Cuckoo Program, 10:30 p. m., Saturday, B.  
Andrew Kelly, 6:45 p. m., Sunday, R.  
Bert Lahr, 8:00 p. m., Wednesday, R.  
Lum and Abner, 7:30 and 11:15 p. m., Mon., Tues., Wed. and Thurs.; 10:30 p. m., Fri., R.  
Lulu McConnell, 9:30 p. m., Monday, C.  
Moran and Mack, 10:00 p. m., Wednesday, C.  
Walter O'Keefe, 8:00 p. m., Friday, B.  
Olsen and Johnson, 10:00 p. m., Friday, C.  
One Man's Family, 11:00 p. m., Saturday, R.  
Optimistic Mrs. Jones, 7:30 p. m., Saturday, R.  
Jack Pearl, 9:00 p. m., Saturday, R.  
Joe Penner, 7:30 p. m., Sunday, B.  
Potash and Perlmutter, 8:30 p. m., Mon., Wed. and Fri., B.  
Talkie Picture Time, 8:30 p. m., Sunday, R.  
Elmer Everett Yess, 8:00 and 11:15 p. m., Tues., Thurs. and Sat., C.

## DRAMA

Billy Bachelor, 7:15 p. m., daily, ex. Sat. and Sun., R.  
Big Ben, 5:00 p. m., Sunday, R.  
Circus Days, 7:30 p. m., Fri. and Sat., B.  
Columbia Dramatic Guild, 9:30 p. m., Thursday, C.  
Red Davis, 8:45 p. m., Mon., Wed. and Fri., B.  
Death Valley Days, 9:00 p. m., Thursday, B.  
Eno Crime Clues, 8:00 p. m., Tues. and Wed., B.  
First Nighter, 10:00 p. m., Friday, R.  
Goldbergs, 7:45 p. m., daily, ex. Sat. and Sun., R.  
Grand Hotel, 5:30 p. m., Sunday, B.  
H-Bar-O Rangers, 6:15 p. m., daily, ex. Sat. and Sun., C.  
Just Plain Bill, 7:15 p. m., daily, ex. Sat. and Sun., C.  
K-7, 8:00 p. m., Saturday, R.  
Warden Lawes, 9:00 p. m., Wednesday, B.  
Legend of America, 10:00 p. m., Tuesday, C.  
Lives at Stake, 10:00 p. m., Tuesday, R.  
March of Time, 8:30 p. m., Friday, C.  
Myrt and Marge, 7:00 and 10:45 p. m., daily, ex. Sat. and Sun., C.  
Rin Tin Tin, 7:45 p. m., Sunday, C.  
Buck Rogers, 6:00 p. m., daily, ex. Fri., Sat., and Sun., C.  
Roses and Drums, 5:00 p. m., Sunday, C.  
Soconyand Sketches, 8:00 p. m., Monday, R.  
Tales of the Titans, 10:00 p. m., Saturday, B.

## PIANO AND ORGAN

Henri Deering, 6:30 p. m., Sunday, B.  
Fray and Braggiotti, 7:30 p. m., Thursday, C.  
Archer Gibson, 10:30 p. m., Thursday, B.  
Gould and Shelter, 4:00 p. m., Sunday, B.  
Dion Kennedy, 4:30 p. m., Sunday, B.  
Ann Leaf, 10:15 p. m., Saturday, C.  
Ohman and Arden, 9:30 p. m., Sunday, R.  
Twenty Fingers of Harmony, 6:45 p. m., Saturday, R.

## POPULAR PROGRAMS

A. & P. Gypsies, 9:00 p. m., Monday, R.  
Album of Familiar Music, 9:30 p. m., Sunday, R.  
Antonia's Cubans, 8:30 p. m., Saturday, R.  
Armour Program, 9:30 p. m., Friday, B.  
Blackstone Plantation, 8:00 p. m., Tuesday, R.  
Blue Coal Program, 7:00 p. m., Sunday, R.  
Major Bowes' Family, 11:15 a. m., Sunday, R.  
California Melodies, 9:00 p. m., Tuesday, C.  
Chase and Sanborn, 8:00 p. m., Sunday, R.  
Chevrolet Program, 10:00 p. m., Sunday, R.  
Cities Service Concert, 8:00 p. m., Friday, R.  
Contented Program, 10:00 p. m., Monday, R.  
Corn Cob Pipe Club, 10:00 p. m., Wednesday, R.  
Del Monte Ship of Joy, 9:30 p. m., Monday, R.  
Evening in Paris, 9:00 p. m., Monday, C.  
Fiddlers Three, 4:00 p. m., Sunday, R.  
Fleischmann Hour, 8:00 p. m., Thursday, R.  
Jack Frost's Melody, 9:30 p. m., Monday, B.  
Gulf Headliners, 9:00 p. m., Sunday, B.  
Household Musical, 9:00 p. m., Tuesday, B.  
Ipana Troubadours, 9:00 p. m., Wednesday, R.  
Jamboree Variety, 9:00 p. m., Saturday, B.  
Lucky Strike, 9:00 p. m., Saturday, R.  
Lum and Abner Sociable, 10:30 p. m., Friday, R.  
Manhattan Merry-Go-Round, 9:00 p. m., Sunday, R.  
Maxwell House Show Boat, 9:00 p. m., Thursday, R.  
Molle Show, 7:00 p. m., Mon., Wed. and Fri., R.  
Music in the Air, 7:30 p. m., Mon., Wed. and Fri., C.  
Nestle's Program, 8:00 p. m., Friday, B.  
Old Gold, 10:00 p. m., Wednesday, C.  
O'Leary's Irish Minstrels, 6:30 p. m., Saturday, B.  
Pond's Program, 9:30 p. m., Friday, R.  
Richfield Country Club, 7:30 p. m., Monday, B.  
Sinclair Minstrels, 9:00 p. m., Monday, B.  
Sous Les Ponts de Paris, 8:30 p. m., Saturday, B.  
Swift Revue, 10:00 p. m., Friday, C.  
Texaco Fire Chief, 9:30 p. m., Tuesday, R.  
Threads of Happiness, 9:15 p. m., Friday, C.  
Wildroot Institute, 4:15 p. m., Sunday, R.  
WLS Barn Dance, 11:00 p. m., Saturday, B.  
Yeast Foamers, 2:30 p. m., Sunday, B.

## RELIGIOUS

Catholic Hour, 6:00 p. m., Sunday, R.  
 Church of the Air, 1:00 p. m., Sunday, C.  
 Friendly Hour, 5:00 p. m., Sunday, B.  
 High Lights of Bible, 1:30 p. m., Sunday, B.  
 Mid-Week Hymn Sing, 6:30 p. m., Tuesday, R.  
 Old Songs of Church, 6:30 p. m., Thursday, B.  
 Seth Parker's, 11:00 p. m., Sunday, R.  
 Radio Parlat, 3:30 p. m., Sunday, R.  
 Salt Lake Choir, 11:30 a. m., Sunday, C.  
 Vesper Hour, 5:00 p. m., Sunday, F.

## SINGERS

Annie, Judy and Zeke, 7:45 p. m., Saturday, B.  
 Mildred Bailey, 8:00 p. m., Sun.; 7:15 p. m., Sat., C.  
 Betty Barthell, 6:30 p. m., Tuesday, C.  
 Irene Beasley, 6:30 p. m., Wednesday, B.  
 Betty Boop Frolics, 6:45 p. m., Friday, R.  
 Jack and Loretta Clemens, 7:45 p. m., Saturday, R.  
 Mario Cozzi, 10:30 p. m., Friday, B.  
 Bing Crosby, 8:30 p. m., Monday, C.  
 Jessica Dragonette, 8:00 p. m., Friday, R.  
 Phil Ducey, 10:30 p. m., Sun., B.; 9:30 p. m., Wed., R.  
 Evan Evans, 11:00 p. m., Wednesday, C.  
 Jane Froman, 9:00 p. m., Sun.; 7:30 p. m., Sat., C.  
 Tito Guizar, 12:30 p. m. and 7:15 p. m., Sun.; 6:45 p. m., Sat., C.  
 Wendell Hall, 7:45 p. m., Sunday, R.  
 Happy Bakers, 8:00 p. m., Mon., Wed. and Fri., C.  
 John Herrick, 7:15 p. m., Wednesday, B.  
 George Jessel, 10:30 p. m., Saturday, C.  
 Hall Johnson Singers, 8:30 p. m., Thursday, C.  
 Alice Joy, 7:00 p. m., Sunday, B.  
 Lazy Dan, 1:30 p. m., Sunday, C.  
 Elizabeth Lennox, 6:45 p. m., Tuesday, R.  
 Ruth Lyon, 10:30 p. m., Wednesday, B.  
 Nino Martini, 9:00 p. m., Sun.; 9:30 p. m., Tues., C.  
 Smiling Ed McConnell, 6:30 p. m., Sunday, C.  
 John McCormack, 9:30 p. m., Wednesday, B.  
 Helen Morgan, 2:00 p. m., Sunday, C.  
 Morin Sisters, 4:15 p. m., Sunday, B.  
 Frank Munn, 9:30 p. m., Sun.; 8:30 p. m., Wed., R.  
 Kathryn Newman, 8:30 p. m., Tuesday, B.  
 Gertrude Niesen, 9:30 p. m., Mon.; 10:30 p. m., Tues.; 8:15 p. m., Sat., C.  
 Noveliers, 9:45 p. m., Sunday, B.  
 Virginia Rea, 9:30 p. m., Sunday, R.  
 Phil Regan, 10:30 p. m., Thursday, C.  
 Revelers, 9:00 p. m., Sunday, B.  
 Gladys Rice, 11:00 p. m., Thursday, C.  
 Baby Rose Marie, 7:15 p. m., Monday, B.

Lanny Ross, 9:00 p. m., Thursday, R.  
 Sanderson-Crumit, 8:00 p. m., Tues., R.; 5:30 p. m., Sun., C.  
 Ethel Shatta, 8:00 p. m., Friday, B.  
 Singin' Sam, 8:15 p. m., Tues. and Thurs., C.  
 Sizzlers Trio, 6:45 p. m., Thurs. and 6:00 p. m., Sat., R.  
 Smith Bros., 8:45 p. m., Tuesday, B.  
 Kate Smith, 9:15 p. m., Mon. and Wed.; 8:45 p. m., Tues., C.  
 Songs My Mother Used to Sing, 6:00 p. m., Sunday, C.  
 Conrad Thibault, 8:30 p. m., Wednesday, C.  
 Thirteen Male Voices, 8:45 p. m., Thursday, B.  
 Three X Sisters, 6:30 p. m., Friday, B.  
 Ortiz Tirado, 10:00 p. m., Tuesday, B.  
 Vera Van, 6:30 p. m., Mon. and Wed., C.  
 Vee and Johnny, 4:15 p. m., Sunday, R.  
 Lee Wiley, 9:30 p. m., Friday, R.  
 Muriel Wilson, 2:45 p. m., Sunday, R.  
 Yacht Club Boys, 9:30 p. m., Saturday, R.

## TALKS

All America Football, 9:30 p. m., Friday, C.  
 Don Carney's Dog Chats, 7:45 p. m., Tuesday, B.  
 Boake Carter, 7:45 p. m., daily, ex. Sat. and Sun., C.  
 Irvin S. Cobb, 9:00 p. m., Wed. and Fri., C.  
 Columbia News Service, 11:15 p. m., daily, ex. Sunday, C.  
 Columbia Public Affairs, 10:00 p. m., Saturday, C.  
 Father Coughlin, 4:00 p. m., Sunday.  
 Eddie Dooley's Football Dope, 6:30 p. m., Thurs., Fri. and Sat., C.  
 Flying Capt. Williams, 6:45 p. m., Saturday, B.  
 Floyd Gibbons, 10:45 p. m., Fri., B.; 8:30 p. m., Mon., R.  
 William Harl, 6:30 p. m., Wednesday, R.  
 Edwin C. Hill, 8:15 p. m., Mon., Wed. and Fri., C.  
 Horlick's Health, 8:30 p. m., Tues. and Thurs., B.  
 Col. Louis McHenry Howe, 10:30 p. m., Sunday, R.  
 H. V. Kautenborn, 6:45 p. m., Friday, C.  
 John B. Kennedy, 6:30 p. m., Thursday, R.  
 Meet the Artist, 6:00 p. m., Saturday, C.  
 Eider Michaux, 9:09 p. m., Saturday, C.  
 National Radio Forum, 10:30 p. m., Wednesday, R.  
 Our American Schools, 6:30 p. m., Sunday, R.  
 Angelo Patri, 10:30 p. m., Sunday, C.  
 Radio in Education, 7:15 p. m., Tuesday, B.  
 Grantland Rice, 7:30 p. m., Monday, B.  
 Irene Rich, 7:45 p. m., Wed. and Fri., B.  
 Seeing the Other Americas, 12:15 p. m., Sunday, R.  
 Madame Sylvia, 10:30 p. m., Tuesday, R.  
 Lowell Thomas, 6:45 p. m., daily ex. Sat. and Sun., B.  
 Voice of Experience, 8:30 and 11:45 p. m., Tuesday, C.  
 Frederic William Wie, 7:00 p. m., Saturday, C.  
 Walter Winchell, 9:30 p. m., Sunday, B.  
 Alexander Woolcott, 10:30 p. m., Wed. and Fri., C.

## KEY TO SYMBOLS

As Shown in the Index by  
 Frequencies and Dial Numbers

Frequency is given in kilocycles; wavelength in meters. Night power is shown in watts in third column. Daytime power is shown in parenthesis in fourth column in kilowatts, thus (25) indicating 250 watts. Some stations outside the United States use a "split frequency." Their exact frequency is shown in fourth column. Time Zones: A—Atlantic, E—Eastern, C—Central, M—Mountain, P—Pacific, L—Local. A. M. time is shown in light face type.

### Second Column Symbols

- a Verifies reception for return postage.
- b Verifies only occasionally.
- c Does not verify.
- d Verification 10c; letter 25c.
- e Sends Ekko stamp for 10c.
- f Sends Ekko stamp for 5c.
- g Sends Ekko stamp for postage.
- h Sends own station stamp for 10c.
- i Sends own station stamp for 5c.
- j Sends own station stamp for postage.
- k Has no stamps.
- z No information available.

### Fourth Column Symbols

- A Amalgamated Broadcasting System.
- B National "Blue" network.
- C Columbia network.
- D Daytime only.
- Dn Daytime with occasional evening hours.
- E Trans-Canada network.
- F Canadian Radio Broadcast. Commission.
- G All Canadian networks.

- H Yankee network.
- J Orange network.
- K Michigan network.
- L Canadian Pacific Ry. network.
- M Central Canada network.
- N National "Red" and "Blue" networks.
- P Has construction permit only.
- Q Great Lakes network.
- R National "Red" network.
- S Sunday only.
- Sy Synchronized.
- T Don Lee System.
- U Dixie network.
- V Maritime Broadcasting network.
- W All-Florida network.
- W Curtis-Indiana network.
- X Has permit to increase power.
- Y Has permit to change location.
- Z Has permit to change frequency.

a-b-c. Small letters show stations using same transmitter  
 1-2-3. Figures denote stations sharing time.  
 ..... No information.





INDEX BY FREQUENCIES AND DIAL NUMBERS

With Friday's Time on the Air

KCYS.  
710  
DIAL

KFRC	ae	1000	CT	San Francisco, Calif.	P—7:00-1:00
KZEG	ak	1000	618.5	Manila, P. I.	L—7:30-12:15; 1:15-5:00
KZRM	ak	50000	618.5	Manila, P. I.	L—6:30-7:30; 12:15-1:15; 5:10-10:30
TIXA	z	7.5	614	San Jose, C. R.	
WDAF	ak	1000	R	Kansas City, Mo.	C—7:56-12:30
WIP	ae	500	C	Philadelphia, Pa.	E—8:30-12:30
WJAY	ak	500	D	Cleveland, Ohio.	E
XETR	z	1000	.....	Mexico City, D. F.	C—9:00-noon; 1:00-4:00; 5:00-11:00

620 kilocycles 483.6 meters

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KGW	ae	1000	NJ	Portland, Ore.	P—7:00-mid.
KTAR	ae	500	NJ (1)	Phoenix, Ariz.	M—7:00-11:15
WFLA	ae	1000	Na (2.5)	Clearwater, Fla.	E—7:30-mid.
WLBY	ak	500	C	Bangor, Maine.	E
WSUN	ae	1000	Na (2.5)	St. Petersburg, Fla.	E—7:30-mid.
WTMJ	ae	1000	N (2.5)	Milwaukee, Wis.	C—6:45-1:00

630 kilocycles 475.9 meters

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CFCY	ae	500	FVE	Charlottetown, P. E. I.	A—12:00-1:30; 6:00-11:30
CJGX	ck	500	F	Yorkton, Sask.	C—8:30-9:15; 10:30-11:45; 12:40-1:15; 7:00-9:00
CMQ	z	500	2	Havana, Cuba	E
KFRU	ak	500	1	Columbia, Mo.	C—6:00-9:00; 4:00-sunset; 7:00-8:30
KGFY	z	200	D	Pierre, S. D.	C—9:30-sunset
WGBF	ae	500	1	Evansville, Ind.	C
WMAL	ak	250	B (.5)	Washington, D. C.	E—6:45-mid.
WOS	ak	500	1D	Jefferson City, Mo.	C—9:00-4:00
XEZ	z	500	.....	Merida, Yuc.	C
XFG	z	2000	638.3	Mexico City, D. F.	C

640 kilocycles 468.5 meters

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CHRC	ak	100	FZ645	Quebec, Que.	E—9:00-12:30
CKCR	ak	100	M645	Kitchener, Ont.	E—10:00-1:30; 4:00-11:00
KFI	ak	50000	1N	Los Angeles, Calif.	P—6:30-mid.
WAJU	ae	500	1	Columbus, Ohio.	E—6:15-5:00
WOI	ae	5000	D	Ames, Iowa.	C—6:30-11:30; noon-1:45; 3:30-5:00

650 kilocycles 461.3 meters

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KPCB	ae	100	.....	Seattle, Wash.	P—5:30-sunset; 10:00-4:00
WSM	aej	50000	N	Nashville, Tenn.	C—6:30-mid.

660 kilocycles 454.3 meters

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TIGP	z	75	666	San Jose, C. R.	
WAAW	af	500	D	Omaha, Neb.	C—6:00-sunset
WEAF	ak	50000	R	New York, N. Y.	E—8:00-1:00

670 kilocycles 447.5 meters

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WMAQ	ck	5000	N	Chicago, Ill.	C—7:30-1:00
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680 kilocycles 440.9 meters

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CMAF	ak	1000	.....	Havana, Cuba.	E—5:30-11:30
HJN	ak	500	681	Bogota, Colombia.	L—Noon-1:30; 7:00-9:00
KFEQ	ae	2500	D	St. Joseph, Mo.	C—9:30-4:50
KPO	ak	50000	N	San Francisco, Calif.	P—7:30-mid.
VAS	z	2000	685	Glace Bay, N. S.	A—1:00-1:15; 1:00-1:15
WRIF	ae	1000	DnN	Raleigh, N. C.	E—7:30-sunset

690 kilocycles 434.5 meters

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CFAC	ak	500	1	Calgary, Alta.	M
CFRB	ak	10000	C	Toronto, Ont.	E—8:00-mid.
CJ CJ	ak	500	1	Calgary, Alta.	M
NAA	ak	1000	.....	Arlington, Va.	E—11:55-noon; 9:55-10:00
XET	ck	500	.....	Monterrey, N. L.	C—Noon-2:00; 4:00-10:00

700 kilocycles 428.3 meters

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WLW	ak	50000	NX	Cincinnati, Ohio.	E—6:30-2:00
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710 kilocycles 422.3 meters

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KMPC	ae	500	Dn	Beverly Hills, Calif.	P—6:45-12:30
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CUT OUT ON DOTTED LINES

# INDEX BY FREQUENCIES AND DIAL NUMBERS

With Friday's Time on the Air

TIFB z 30 714 San Jose, C. R. C-6:00-10:00  
 WOR ak 5000 Newark, N. J. E-6:45-12:30  
 XEN ak 1000 711 Mexico City, D. F. C-9:00-noon; 1:00-4:00; 5:00-mid.

**720 kilocycles 416.4 meters**   
 WGN ck 25000 C Chicago, Ill. C-7:00-1:30

**730 kilocycles 410.7 meters**   
 CFPL z 100 London, Ont. E  
 CJCA ah 500 F Edmonton, Alta. M  
 CKAC ak 5000 CF Montreal, Que. E-7:30-11:30  
 CMK ae 3150 Havana, Cuba. E-11:00-1:00; 7:00-mid.  
 XEF-  
 XER ak 150000 735 Villa Acuna, Coah. C-7:15-5:00

**740 kilocycles 405.2 meters**   
 KMMJ ae 1000 D Clay Center, Neb. C-5:00-sunset  
 WHEB ak 250 D Portsmouth, N. H. E-8:30-1:30; 3:30-7:45  
 WSB ah 50000 NX Atlanta, Ga. C-6:55-mid.

**750 kilocycles 399.8 meters**   
 KGU aj 2500 N Honolulu, T. H. L-6:30-10:30  
 WJR ak 10000 B Detroit, Mich. E-7:00-1:00  
 XEAN ae 5000 Juarez, Chih. M  
 XEFD ak 5000 757 Tijuana, B. C. P-7:00-mid.

**760 kilocycles 394.5 meters**   
 KXA ae 250 (.5) Seattle, Wash. P  
 WBAL ae 10000 BSy Baltimore, Md. (See 1060 Kcys.)  
 WBW ae 1000 D St. Louis, Mo. C-7:30-6:00  
 WJZ ck 50000 BSy New York, N. Y. E-8:00-1:00

**770 kilocycles 389.4 meters**   
 KFAB ae 5000 CSy Lincoln, Neb. C-5:00-6:45; 9:00-mid.  
 WBBM ae 25000 CSy Chicago, Ill. C

**780 kilocycles 384.4 meters**   
 CHWK ak 100 F Chilliwack, B. C. P-9:00-10:00; 12:00-1:00; 5:30-8:30  
 CJCS ae 500 (1) P Sudbury, Ont. E-8:00-mid.  
 CKPR ak 100 FE Fort William, Ont. E-10:00-2:00; 5:00-11:00  
 CMBS ag 200 1 (.15) Havana, Cuba. E-10:00-noon; 7:00-11:00  
 CMCQ z 1000 1 Havana, Cuba. E  
 KELW ae 500 2 Burbank, Calif. P-10:00-1:00; 5:00-8:00; 4:00-6:00  
 KTM ae 500 2 (1) Los Angeles, Calif. P-6:00-10:00; 1:00-5:00; 8:00-4:00  
 WEAN ae 500 CH Providence, R. I. E-7:30-1:00  
 WMC ak 500 N (1) Memphis, Tenn. C-7:00-mid.  
 WTAR ae 500 C Norfolk, Va. E-7:00-mid.  
 XEP z 1000 Mexico City, D. F. C  
 XEYZ z 10000 Mexico City, D. F. C

**790 kilocycles 379.5 meters**   
 CMJK ak 500 Camaguey, Cuba. E-11:30-12:30; 5:00-11:00  
 KGO ak 7500 N San Francisco, Calif. P-7:00-mid.  
 WGY ak 50000 R Schenectady, N. Y. E-6:45-1:00

**800 kilocycles 374.8 meters**   
 VOAC z 40 St. John's, Newfoundland. L  
 WBAP ak 50000 Na Fort Worth, Texas. C-6:30-7:00; 8:30-10:30; 12:30-3:00; 5:30-6:30;  
 10:00-mid.  
 WFAA ak 50000 Na Dallas, Texas C-7:00-8:30; 10:30-12:30; 3:00-5:30; 6:30-7:00  
 XFC z 350 805 Aguascalientes, Ags.

**810 kilocycles 370.2 meters**   
 VOAS ak 100 St. John's, Nfld. L-11:00-12:30; 4:00-5:30  
 WCCO ae 50000 C Minneapolis, Minn. C-7:00-mid.  
 WNYC ak 500 N New York, N. Y. E-10:00-7:30

**820 kilocycles 365.6 meters**   
 CMGC z 30 Matanzas, Cuba. E  
 WHAS aj 25000 C Louisville, Ky. C-7:00-mid.

# INDEX BY FREQUENCIES AND DIAL NUMBERS

With Friday's Time on the Air

## 830 kilocycles 361.2 meters

CMGA	z	100	834	Colon, Cuba.	E			
KOA	ak	12500	N	Denver, Colo.	M-7:00-mid.			
TIEA	z	7.5	833	San Jose, C. R.	L			
WEEU	ak	1000	D	Reading, Pa.	E-8:00-6:15			
WHDH	ae	1000	DnA	Boston, Mass.	E-7:00-sunset in Denver			
WRUF	ac	5000	Dn	Gainesville, Fla.	E-8:00-6:45			
XETW	dk	500	.....	Mexico City, D. F.	C-Noon-11:00			

## 840 kilocycles 356.9 meters

CJOC	ak	100	F	Lethbridge, Alta.	M-7:30-8:00			
CMC	ae	500	.....	Havana, Cuba.	E-10:30-11:30; 6:45-11:00			
XFX	ak	500	.....	Mexico City, D. F.	C-7:00-noon; 4:30-10:30			

## 850 kilocycles 352.7 meters

KIEV	ak	100	D	Glendale, Calif.	P-6:00-sunset			
KWKH	ae	10000	1	Shreveport, La.	C			
WWL	ae	10000	1Dn	New Orleans, La.	C-8:00-8:30			

## 860 kilocycles 348.6 meters

TIVL	z	30	869	San Jose, C. R.	C-11:00-1:00; 7:00-10:00			
WABC	ae	50000	C	New York, N. Y.	E-7:30-2:00 (WBOQ)			
WHB	ae	500	D	Kansas City, Mo.	C-6:00-5:00			
XETH	ak	100	.....	Puebla, Pue.	C-8:30-11:00; 1:00-3:00; 6:30-11:00			

## 870 kilocycles 344.6 meters

WENR	ak	50000	Na	Chicago, Ill.	C			
WLS	ae	50000	Na	Chicago, Ill.	C-5:30-9:15; 10:45-2:30; 6:00-7:30			
XEAD	z	250	875	Mexico City, D. F.	C			

## 880 kilocycles 340.7 meters

CJCB	ak	50	.....	Sydney, N. S.	A-10:00-11:00; noon-2:00; 5:00-10:00			
CJRM	z	500	.....	Moose Jaw, Sask.	C			
CJRW	ak	500	F	Fleming, Sask.	C-8:00-9:00; 10:00-10:45; 1:00-1:15; 2:15-2:30; 5:30-7:30			
CRCO	z	500	F	Ottawa, Ont.	E			
KFKA	ak	500	2 (1)	Greeley, Colo.	M-6:00-7:30; 9:00-2:30; 4:30-6:00; 8:00-mid.			
KLX	ae	1000	.....	Oakland, Calif.	P-8:00-11:00			
KPOF	ae	500	2	Denver, Colo.	M-7:30-9:00; 2:30-4:30; 6:00-8:00			
WCOC	ae	500	(1)	Meridian, Miss.	C-7:30-2:00 5:00-10:30			
WGBI	ae	250	1	Scranton, Pa.	E-9:30-12:30; 1:30-4:30; 5:30-8:00			
WQAN	ae	250	1	Scranton, Pa.	E-9:00-9:30 12:30-1:30; 4:30-5:30			
WSUI	ae	500	.....	Iowa City, Iowa.	C-9:00-10:00; 11:00-12:30; 2:00-4:00; 6:00-10:00			
YV2BC	z	100	882	Caracas, Venez.	L			

## 890 kilocycles 336.9 meters

CFQC	z	500	Z	Saskatoon, Sask.	C			
CMCF	ak	250	1	Havana, Cuba.	E-5:00-8:00; 9:00-11:00			
CMX	ae	1000	1	Havana, Cuba.	E-Noon-2:00; 8:00-9:00			
KARK	ak	250	1	Little Rock, Ark.	C-7:00-2:30; 4:30-9:00			
KFNF	ak	500	2 (1)	Shenandoah, Iowa.	C-5:00-10:00; 11:00-5:00; 6:00-10:00			
KSEI	ck	250	(.5)	Pocatello, Idaho.	M-7:30-11:00			
KUSD	ae	500	2	Vermillion, S. D.	C-8:00-9:00			
WGST	aeH	250	C (.5)	Atlanta, Ga.	C-7:00-mid.			
WILL	ak	250	2 (.5)	Urbana, Ill.	C-10:00-12:15; 5:00-6:00			
WJAR	ae	500	R	Providence, R. I.	E-8:00-1:00			
WMMN	ae	250	(.5)	Fairmont, W. Va.	E-7:00-9:30			
XETU	z	100	.....	Pachuca, Hdo.				

## 900 kilocycles 333.1 meters

KGBU	ak	500	.....	Ketchikan, Alaska.	L			
KHJ	ae	1000	CT	Los Angeles, Calif.	P-7:00-1:00			
VOWR	ak	500	S	St. John's, Nfld.	L-Silent			
WBEN	ae	1000	R	Buffalo, N. Y.	E-6:45-Mid.			
WJAX	aeH	1000	N	Jacksonville, Fla.	E-7:00-12:30			
WKY	ak	1000	N	Oklahoma City, Okla.	C-6:45-mid.			
WLBL	ae	2500	D	Stevens Point, Wis.	C-8:00-sunset			

**KCY.S.**  
**900**  
**DIAL**

CUT OUT ON DOTTED LINES

# INDEX BY FREQUENCIES AND DIAL NUMBERS

With Friday's Time on the Air

## 910 kilocycles 329.6 meters

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CFRC	ak	100	915	Kingston, Ont.	E
CKY	ak	5000	.....	Winnipeg, Man.	C—8:30-1:30; 4:00-11:00
CRCM	z	5000	F	LaPrairie, Que.	E
TICR	z	75	911	San Jose, C. R.	C—6:30-10:00
XEW	ak	5000	.....	Mexico City, D. F.	C

## 920 kilocycles 325.9 meters

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CMCD	ah	500	(.25)	Havana, Cuba.	E—Noon-11:30
CMDE	z	150	925	Havana Cuba.	E
HHK	ae	1000	.....	Port-au-Prince, Haiti.	E—8:00-9:00
KFEL	ak	500	1	Denver, Colo.	M—6:30-8:30; 10:00-12:30; 3:00-4:30; 9:00-mid.
KFXF	ae	500	1	Denver, Colo.	M—8:30-10:00; 12:30-3:00; 4:30-6:00; 7:30-9:00
KOMO	ak	1000	N	Seattle, Wash.	P—6:55-mid.
KPRC	ae	1000	N (2.5)	Houston, Texas.	C—6:30-mid.
WAAP	ak	500	D	Chicago, Ill.	C—6:00-sunset
WBSO	ae	500	D	Babson Park, Mass.	E—8:30-5:15
WWJ	ae	1000	R	Detroit, Mich.	E—7:30-mid.

## 930 kilocycles 322.4 meters

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CFCH	ak	100	F	North Bay, Ont.	E—Noon-1:30; 5:30-mid.
CFLC	ae	100	.....	Prescott, Ont.	E—8:00-10:00; noon-2:00; 5:00-10:00
CKPC	ae	100	FG	Preston, Ont.	E—6:45-mid.
CKY	ak	500	.....	Brandon, Man.	C
CMJF	z	200	.....	Camaguey, Cuba.	E
KFWI	ak	500	1	San Francisco, Calif.	P
KGBZ	ak	500	2 (1)	York, Neb.	C
KMA	ak	500	2 (1)	Shenandoah, Iowa.	C—6:00-7:30; 9:30-11:00; 12:30-2:00; 3:30-5:00; 6:30-8:30; 10:00-mid.
KROW	ak	500	1 (1)	Oakland, Calif.	P—8:00-9:00; 1:00-6:00; 7:30-8:30
WBRC	ak	500	C (1)	Birmingham, Ala.	C—7:00-11:00
WDBJ	ae	250	C (.5)	Roanoke, Va.	E—8:00-mid.
WIBG	ae	25	D	Glenside, Pa.	E—9:00-sunset.

## 940 kilocycles 319.0 meters

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KOIN	ak	1000	CT	Portland, Ore.	P—6:30-mid.
WAAT	ae	300	D	Jersey City, N. J.	E—6:00-6:00
WGSB	ae	1000	R (2.5)	Portland, Maine.	E—8:00-mid.
WDAY	ae	1000	N	Fargo, N. D.	C—7:00-mid.
WFIV	ak	1000	Y	Hopkinsville, Ky.	C—5:00-7:45; 11:30-1:00; 6:30-9:30
WHA	ak	1000	D	Madison, Wis.	C—8:00-sunset
XEFO	ak	5000	.....	Mexico City, D. F.	C—1:00-3:00; 6:25-mid. (XEO)

## 950 kilocycles 315.6 meters

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CMHD	dk	500	(.25)	Caibarien, Cuba.	E—Silent
KFWB	ak	1000	.....	Hollywood, Calif.	P—7:30-12:30
KGHL	ak	1000	NJ (2.5)	Billings, Mont.	M—8:00-11:00
KMBC	ak	1000	C	Kansas City, Mo.	C—6:00-mid.
WRC	ae	500	R	Washington, D. C.	E—6:30-1:00

## 960 kilocycles 312.3 meters

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CMBD	z	250	965	Havana, Cuba.	E—Noon-6:00
CMCW	ak	150	965	Havana, Cuba.	E—6:00-mid.
CMJL	z	50	.....	Camaguey, Cuba.	E
CRCT	z	5000	NF	Toronto, Ont.	E
XEAW	ak	10000	965	Reynosa, Tams.	C—5:00-1:00
YVIBC	ak	5000	.....	Caracas, Venez.	L—11:00-1:30; 5:30-10:15

## 970 kilocycles 309.1 meters

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CMGF	ak	100	977	Matanzas, Cuba.	E—3:00-5:00; 8:00-10:30
KJR	z	5000	N	Seattle, Wash.	P—6:55-mid.
WCFL	ae	1500	BX	Chicago, Ill.	C—7:00-mid.

## 980 kilocycles 303.9 meters

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KDKA	ak	5000	B	Pittsburgh, Pa.	E—7:00-1:00
XEAE	ak	800	.....	Tijuana, B. C.	P—9:00-mid.

## 990 kilocycles 302.8 meters

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TITV	z	7.5	999	San Jose, C. R.	C—3:00-5:00; 7:00-11:00
WBZ	ak	25000	BSy	Boston, Mass.	E
WBZA	ak	1000	BSy	Springfield, Mass.	E
WJEM	z	500	D	Tupelo, Miss.	C
XÉK	ak	100	.....	Mexico City, D. F.	C—11:00-4:00; 6:00-2:00

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## 1000 kilocycles 299.8 meters

KFVD	ae	250	Dn	Los Angeles, Calif.	P-6:30-sunset; 10:00-mid.
WHO-					
WOC	ak	50000	R	Des Moines, Iowa.	C-7:00-mid.
WORK	ak	1000	D	York, Pa.	E-8:00-6:45
XEA	ak	250	.....	Guadalajara, Jal.	C-8:30-9:00; 6:00-11:00
XEC	z	50	.....	Toluca, D. F.	C
XEFE	z	100	.....	Nuevo Laredo, Tams.	C
XEFJ	ak	100	.....	Monterrey, N. L.	C-11:00-2:00; 7:00-10:00
XEFS	ak	40	.....	Queretaro, Oro.	C-8:00-10:00
XEL	ak	40	.....	Saltillo, Coah.	C-10:30-1:00; 6:00-9:00

## 1010 kilocycles 296.9 meters

CHML	aei	50	M	Hamilton, Ont.	E-8:00-11:00
CHWC	ae	500	3F	Regina, Sask.	M-7:00-9:00; 10:00-11:00; noon-1:00; 3:30-6:30
CKCD	ak	100	.....	Vancouver, B. C.	P-8:30-9:00
CKCK	ak	500	3F	Regina, Sask.	M-9:00-10:00; 11:00-noon; 1:00-3:30; 5:30-11:00
CKCO	z	100	.....	Ottawa, Ont.	E
CKIC	ak	50	.....	Wolfville, N. S.	A-Noon-1:00; 6:00-7:00
CKWX	ae	100	LZ	Vancouver, B. C.	P-7:00-8:30; 9:00-mid.
CMBZ	ak	150	.....	Havana, Cuba.	E-11:00-1:00; 4:00-6:00; 8:30-11:00
CMJO	ak	50	.....	Ciego de Avila, Cuba.	E-9:00-1:00; 6:00-10:00
KGGF	ak	500	2 (1)	Coffeyville, Kans.	C-7:30-2:00; 5:00-10:30
KQW	ae	500	.....	San Jose, Calif.	P-7:00-8:00; 9:00-3:00; 4:30-10:00
TIGA	z	30	1014	Cartago, C. R.	
WHN	ae	250	1	New York, N. Y.	E-9:30-1:00
WIS	ae	500	N (1)	Columbia, S. C.	E-8:00-mid.
WNAD	ae	500	2	Norman, Okla.	C-Silent
WPAP	ae	250	1	New York, N. Y.	E-9:30-3:30
WQAO	ae	250	1	New York, N. Y.	E-Silent
WRNY	ae	250	1	New York, N. Y.	E-1:00-1:30; 3:30-9:30
XEJ	ak	500	1015	Juarez, Chih.	C
XEU	ak	100	.....	Veracruz, Ver.	C-7:00-9:00; 10:00-2:00; 5:00-11:00

KCYS.  
**1070**  
DIAL

## 1020 kilocycles 293.9 meters

KYW	ae	10000	N	Chicago, Ill.	C-8:00-1:00
WRAX	ak	250	D	Philadelphia, Pa.	E-7:00-7:00
XES	dk	250	.....	Tampico, Tams.	E-10:00-2:30; 5:00-10:00

## 1030 kilocycles 291.1 meters

CFCN	ak	10000	.....	Calgary, Alta.	M
CFNB	ae	500	FE	Fredericton, N. B.	A-8:30-9:30; 12:30-2:00; 7:30-10:00
CKNC	ak	100	F	Toronto, Ont.	E-8:00-11:00
CMHI	ak	250	1037	Santa Clara, Cuba.	E-11:00-noon; 8:00-9:00
CMKC	z	150	1034	Santiago, Cuba.	E
XEB	ak	10000	.....	Mexico City, D. F.	C-9:30-10:00

## 1040 kilocycles 288.3 meters

CMGH	ak	15	.....	Matanzas, Cuba.	E-2:00-3:00; 5:00-6:00; 7:30-8:30
KRLD	ae	10000	1C	Dallas, Texas.	C
KTHS	ae	10000	1N	Hot Springs, Ark.	C
WESG	ak	1000	D	Elmira, N. Y.	E-8:00-7:00
WKAR	ak	1000	D	East Lansing, Mich.	E

## 1050 kilocycles 285.5 meters

CHNS	ae	500	FL	Halifax, N. S.	A-8:00-1:30; 2:30-4:30; 6:00-mid.
CMJG	z	50	.....	Camaguey, Cuba.	E
KFB1	ak	5000	Dn	Abilene, Kans.	C-6:00-sunset
KNX	ak	25000	.....	Hollywood, Calif.	P-6:45-11:00
XEFC	ak	100	.....	Merida, Yuc.	C-8:00-10:00

## 1060 kilocycles 282.8 meters

KWJJ	ak	500	.....	Portland, Ore.	P-6:00-8:00; 9:00-2:00
WBAL	ae	10000	1B	Baltimore, Md.	E-7:30-3:00
WJAG	ak	1000	D	Norfolk, Neb.	C-6:45-sunset
WTIC	ak	50000	1R	Hartford, Conn.	E

## 1070 kilocycles 280.2 meters

CMBG	z	225	.....	Havana, Cuba.	E
CMCB	ak	150	.....	Havana, Cuba.	E

CUT OUT ON DOTTED LINES

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With Friday's Time on the Air

KJBS ac 100 D  
 WCAZ ae 50 D  
 WDX ak 100 D  
 WTAM ck 50000 R  
 XEG z 500 1075

San Francisco, Calif. P--12:01-sunset  
 Carthage, Ill. C  
 Tuscola, Ill. C--8:00-4:00  
 Cleveland, Ohio. E--6:30-1:00  
 Mexico City, D. F. C--(Mail returned)

## 1080 kilocycles 277.6 meters

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VOKW z 30 1085  
 WBT ae 25000 CU  
 WCBD ae 5000 1Dn  
 WMBI ae 5000 1Dn  
 XEFG ak 500 1085

St. John's, Nfld. L--Noon-2:00; 9:00-mid.  
 Charlotte, N. C. E--7:00-mid.  
 Zion, Ill. C--7:30-10:30; 1:30-sunset  
 Chicago, Ill. C--7:00-7:30; 10:30-1:30; 3:00-4:00; mid.-1:00  
 Mexico City, D. F. C--10:30-4:00; 7:00-mid.

## 1090 kilocycles 275.1 meters

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KMOX ak 50000 C  
 XEAI z 100

St. Louis, Mo. C--6:30-12:30  
 Mexico City, D. F. (All mail returned)

## 1101 kilocycles 272.6 meters

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CMCU ak 500  
 CRCV ak 500 F  
 KGDm ak 250 D  
 TIRCA ak 500  
 WLWL ae 5000 1  
 WPG ak 5000 1C

Havana, Cuba. E--6:00-mid.  
 Vancouver, B. C. P--10:00-1:00; 5:30-11:00  
 Stockton, Calif. P--6:00-6:30  
 San Jose, C. R. C--11:00-1:00 5:00-10:30  
 New York, N. Y. E--2:00-3:00; 6:00-8:00  
 Atlantic City, N. J. E--9:00-2:00; 3:00-6:00; 8:00-1:00

## 1110 kilocycles 270.1 meters

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KSOO ae 1000 Dn (2.5)  
 WRVA ae 5000 N  
 XENT ak 15000 1115

Sioux Falls, S. D. C--6:00-6:30  
 Richmond, Va. E--7:00-mid.  
 Nuevo Laredo, Tams. C--6:00-8:00; 10:00-2:00; 5:00-10:00

## 1120 kilocycles 267.7 meters

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CHGS ae 100 F  
 CHLP z 100  
 CKOC ae 500 F  
 CMHJ ae 60 1125  
 KFIO ae 100 D  
 KFSG ae 500 a  
 KRKC ae 500 a  
 KRSC ak 100 D  
 KTRH z 1000 2C  
 WDEL ak 250 (.5)A  
 WHAD ak 250 1C  
 WISN ak 250 1  
 WTAW ae 500 2

Summerside, P. E. I. A--7:30-8:45; 10:30-2:00; 4:30-7:30; 9:00-11:00  
 Montreal, Que. E--9:00-mid.  
 Hamilton, Ont. E--7:45-11:30  
 Cienfuegos, Cuba. E--11:00-2:00; 6:00-9:00  
 Spokane, Wash. P--7:00-sunset  
 Los Angeles, Calif. P--6:30-7:15  
 Los Angeles, Calif. P--7:45-mid.  
 Seattle, Wash. P--6:45-6:30  
 Houston, Texas. C--6:30-11:30  
 Wilmington, Del. E--9:00-10:00  
 Milwaukee, Wis. C--9:30-10:15; 3:00-4:00; 8:30-9:30  
 Milwaukee, Wis. C  
 College Station, Texas. C--12:30-1:30

## 1130 kilocycles 265.3 meters

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KSL ae 50000 C  
 WJJD ae 20000 Dn  
 WOV ag 1000 D  
 XEH ak 250 1132

Salt Lake City, Utah. M--6:45-mid.  
 Chicago, Ill. C--6:30-10:00  
 New York, N. Y. E--8:00-2:00; 3:00-6:00  
 Monterrey, N. L. C--8:00-1:30; 5:00-10:30

## 1140 kilocycles 263.0 meters

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CMBJ z 500  
 CMBW ak 600  
 KVOO ae 5000 1N  
 WAPI ae 5000 1N

Havana, Cuba. E--Noon-7:00  
 Havana, Cuba. E--Silent  
 Tulsa, Okla. C--6:30-7:00; 9:00-mid.  
 Birmingham, Ala. C--6:00-9:00

## 1150 kilocycles 260.7 meters

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CMJH ak 50  
 WHAM ae 25000 B  
 XED ak 500 1155  
 10-AT ak 25 1155

Ciego de Avila, Cuba. E--8:00-8:30; 10:00-3:00; 5:30-10:30  
 Rochester, N. Y. E--8:00-mid.  
 Guadalajara, Jal. C--Noon-3:30; 7:00-mid.  
 Trail, B. C. P--9:30-9:00

## 1160 kilocycles 258.5 meters

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WOWO ae 10000 1C  
 WWVA ae 5000 1C

Fort Wayne, Ind. C--8:30-5:45; 7:30-10:00  
 Wheeling, W. Va. E--6:30-8:30; 10:00-mid.

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**1170 kilocycles 256.3 meters**

CMJE	z	50	1175	Camaguey, Cuba.	E.
WCAU	ae	50000	C	Philadelphia, Pa.	E-8:00-1:00

**1180 kilocycles 254.1 meters**

CMBN	ak	150	1185	Havana, Cuba.	E
CMCJ	ak	500	1185	Havana, Cuba.	E-Noon-2:00; 4:00-6:00; 7:00-10:00
HIJK	z	15000	.....	Santo Domingo, D. R.	
KEX	ak	5000	2N	Portland, Ore.	P-7:00-4:45; 8:00-mid.
KOB	ae	10000	2	Albuquerque, N. M.	M-Noon-1:00; 5:00-9:00
WDGY	ak	1000	Dn	Minneapolis, Minn.	C-6:30-8:15
WINS	ae	500	.....	New York, N. Y.	E-6:00-7:00
WMAZ	ak	500	.....	Macon, Ga.	E-7:30-3:00; 5:00-8:15
XETA	z	250	.....	Mexico City, D. F.	

**1190 kilocycles 252.0 meters**

HIJ	z	15	1195	Santo Domingo, D. R.	E-12:30-2:30; 6:30-8:30
VONF	ak	400	1195	St. John's, Nfld.	L-Noon-2:00; 6:00-9:00
WOAI	ae	50000	N	San Antonio, Texas.	C-6:30-11:30
WSAZ	ak	1000	.....	Huntington, W. Va.	E-8:00-8:00

**1200 kilocycles 249.9 meters**

CHAB	ak	25	F	Moose Jaw, Sask.	M-5:30-7:00
CKOV	ak	100	F	Kelowna, B. C.	P
CKTB	ae	100	GP	St. Catharines, Ont.	E
CMGB	z	30	1205	Matanzas, Cuba.	E
KBTM	ak	100	D	Paragould, Ark.	C-7:30-1:30; 2:30-5:30
KERN	ak	100	CT	Bakersfield, Calif.	P-7:00-mid.
KFJB	ak	100	(25)	Marshalltown, Iowa.	C-6:00-9:00; noon-3:00; 6:00-9:00
KFXD	ae	100	.....	Nampa, Idaho.	M-7:00-9:00
KFXJ	ak	100	.....	Grand Junction, Colo.	M
KGDE	ak	100	(25)	Fergus Falls, Minn.	C-7:00-9:00
KGKE	ak	100	.....	Yuma, Colo.	M-11:30-1:30; 7:15-8:45
KGJF	ae	100	.....	Los Angeles, Calif.	P-24 hours
KGHI	ak	100	(25)	Little Rock, Ark.	C-7:00-1:00; 4:00-10:00
KGVO	ak	100	.....	Missoula, Mont.	M-8:00-8:30
KMLB	ak	100	.....	Monroe, La.	C
KSLN	ae	100	D	Lowell, Ariz.	M-Sunrise-sunset
KVOS	ak	100	.....	Bellingham, Wash.	P-7:00-10:00
KWG	ae	100	CT	Stockton, Calif.	P-7:00-mid.
WABI	ak	100	.....	Bangor, Maine.	E-9:00-2:00; 6:00-10:00
WBBX	ak	100	1	New Orleans, La.	C-Noon-5:00; 8:00-11:00
WBBZ	ak	100	.....	Ponca City, Okla.	C-6:30-9:00
WBHS	z	100	4	Huntsville, Ala.	C
WCAT	ak	100	D	Rapid City, S. D.	C-12:30-1:30
WCAX	ak	100	A	Burlington, Vt.	E-Noon-1:00; 6:00-8:00
WCLO	ak	100	.....	Janesville, Wis.	C-7:30-2:00; 5:00-8:30
WCOD	ak	100	3	Harrisburg, Pa.	E-7:00-10:00; 2:00-5:00; 7:00-11:00
WFAM	ak	100	8C	South Bend, Ind.	C-6:30-mid.
WFBC	ak	100	4 (25)	Greenville, S. C.	E-7:30-2:30; 5:30-10:30
WFBE	ak	100	(25)	Cincinnati, Ohio.	E-7:00-11:30
WHBC	ak	100	2	Canton, Ohio.	E-7:00-9:00; noon-3:00; 6:00-9:00
WHBY	ak	100	.....	Green Bay, Wis.	C-7:30-9:45
WIBX	ae	100	(3)	Utica, N. Y.	E-8:00-11:00
WIL	ak	100	5 (25)	St. Louis, Mo.	C-7:00-mid.
WJBC	ae	100	6	LaSalle, Ill.	C-8:00-9:00; 10:00-12:30; 6:30-10:30
WJBL	ae	100	6	Decatur, Ill.	C-6:30-8:00; 9:00-10:00; 12:30-3:00; 4:30-6:30
WJBW	ak	100	1	New Orleans, La.	C-8:00-noon; 5:00-8:00
WKJC	ae	100	3	Lancaster, Pa.	E-11:00-3:00; 6:00-8:00
WLAP	ae	100	(25)	Louisville, Ky.	C-7:30-11:30
WNBO	ae	100	2	Silverhaven, Pa.	E-9:00-noon; 3:00-6:00; 9:00-mid.
WNBW	z	10	(1)	Carbondale, Pa.	E
WPHR	ak	100	(25)	Petersburg, Va.	E-8:00-5:00; 6:00-9:00
WRBL	z	100	.....	Columbus, Ga.	C-7:00-11:00
WWAE	ae	100	8	Hammond, Ind.	C-7:00-8:30; 11:00-1:00; 4:00-7:00; 8:00-mid.
YV3BC	ak	1000	.....	Caracas, Venez.	L-11:00-2:00; 5:00-10:30
10-AK	ak	15	.....	Stratford, Ont.	E-Noon-1:00; 5:30-7:00
10-BI	ak	25	.....	Prince Albert, Sask.	M
10-BP	ak	15	.....	Wingham, Ont.	E-7:15-9:00
10-BQ	ak	5	.....	Brantford, Ont.	E-11:00-8:00
10-BU	z	15	.....	Canora, Sask.	C

**1210 kilocycles 247.8 meters**

CFBO	z	100	.....	St. John, N. B.	A
CFCO	ak	100	FL	Chatham, Ont.	E-7:15-10:00

KCYS.  
**1210**  
DIAL

CUT OUT ON DOTTED LINES

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With Friday's Time on the Air

CHNC	ak	100	PF	New Carlisle, Que.	A—1:00-mid.
CJOR	ak	500	.....	Vancouver, B. C.	P—7:30-10:30
CKCH	z	100	.....	Hull, Que.	E
KCMC	ak	100	.....	Cobalt, Ont.	E
KASA	ak	100	.....	Elk City, Okla.	C—6:30-1:30; 5:00-7:00
KDLR	ak	100	.....	Devils Lake, N. D.	C—8:00-2:15; 6:00-8:00
KFJ1	ak	100	.....	Klamath Falls, Ore.	P—8:30-9:00
KFOR	ak	100	(.25)	Lincoln, Neb.	C—7:00-10:00
KFPW	ak	100	.....	Fort Smith, Ark.	C—7:00-2:00; 5:00-10:00
KFVS	ae	100	6	Cape Girardeau, Mo.	C—9:00-noon; 4:00-8:30
KFXM	ak	100	9	San Bernardino, Calif.	P—6:00-mid.
KGCR	ak	100	.....	Watertown, S. D.	C
KGY	ak	100	.....	Olympia, Wash.	P—6:00-mid.
KIEM	ak	100	.....	Eureka, Calif.	P—7:45-sunset
KPPC	ak	50	9	Pasadena, Calif.	P—Silent
KWEA	z	100	.....	Shreveport, La.	C
KWV	z	100	.....	Hilo, Hawaii.	L
WALR	ae	100	.....	Zanesville, Ohio.	E
WBAX	ae	100	1	Wilkes Barre, Pa.	E
WBBL	ak	100	7S	Richmond Va.	E—Silent
WBBS	ak	100	2	Springfield, Ill.	C—11:15-3:00; 6:45-9:00
WCRW	ae	100	4	Chicago Ill.	C—11:00-2:00; 5:00-7:00
WEBQ	ae	100	6	Harrisburg, Ill.	C—6:00-9:00; noon-4:00; 8:30-mid.
WEDC	ae	100	4	Chicago, Ill.	C—8:30-10:00; 3:30-5:00; 7:00-8:00; 10:00-11:00; mid.-2:00
WFAS	ak	100	3A	White Plains, N. Y.	E—Silent
WGBB	ae	100	3	Freeport, N. Y.	E—Silent
WGCM	ae	100	(.25)	Mississippi City, Miss.	C—Silent until Dec. 29
WGNV	ak	100	.....	Chester, N. Y.	E
WHBF	ak	100	.....	Rock Island, Ill.	C—7:30-10:00
WHBU	ah	100	.....	Anderson, Ind.	C—7:00-7:15
WHET	ak	100	D	Troy, Ala.	C—9:00-sunset
WIBU	a	100	.....	Poynette, Wis.	C
WJBI	ak	100	3A	Red Bank, N. J.	E—9:00-noon; 2:00-mid.
WJBY	ak	100	.....	Gadsden, Ala.	C—9:00-9:00
WJEJ	ah	100	D	Hagerstown, Md.	E—7:00-1:00; 4:00-7:45
WJW	ak	100	.....	Akron, Ohio.	E—9:00-11:30
WKFI	ak	100	Y	Greenville, Miss.	C—7:00-7:00
WKOK	ak	100	1P	Sunbury, Pa.	E
WMBG	ak	100	7C	Richmond, Va.	E—7:00-mid.
WOC	ak	50	.....	Jamestown, N. Y.	E—Noon-mid.
WOMT	ae	100	.....	Manitowoc Wis.	C
WPRO	ak	100	A	Providence, R. I.	E—9:00-2:00; 4:00-11:15
WQDX	ae	100	.....	Thomasville, Ga.	E—8:00-9:00
WBC	ae	100	4	Chicago, Ill.	C—6:00-8:30; 10:00-11:00; 2:00-3:30; 8:00-10:00; 11:00-mid.
WSEN	ak	100	.....	Columbus, Ohio.	E—8:00-mid.
WSIX	ak	100	.....	Springfield, Tenn.	C—6:00-4:00; 6:00-9:00
WSOC	ae	100	.....	Charlotte, N. C.	E
WTAX	ae	100	2	Springfield, Ill.	C
XEX	z	500	.....	Mexico City, D. F.	(All mail returned)

## 1220 kilocycles 245.8 meters

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CMHK	ak	50	122S	Cruces, Cuba.	E—10:00-11:30
KFKU	ae	500	a	Lawrence, Kans.	C—2:30-3:00; 6:00-6:15
KTW	ak	1000	S2	Seattle, Wash.	P—Silent
KWSC	ae	1000	2(2)	Pullman, Wash.	P—Noon-2:30; 4:30-8:00
WCAD	ak	500	D	Canton, N. Y.	E—12:30-1:30; 3:00-4:00
WCAE	ae	1000	R	Pittsburgh, Pa.	E—6:45-1:00
WDAE	ae	1000	CW	Tampa, Fla.	E—8:00-mid.
WREN	ak	1000	Ba	Lawrence, Kas.	C—7:00-mid.

## 1230 kilocycles 243.8 meters

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CMBY	z	250	2	Havana, Cuba.	E
CMCA	z	150	2	Havana, Cuba.	E
KGGM	ak	250	(.5)	Albuquerque, N. M.	M—6:00-noon; 4:00-8:00
KYA	ae	1000	N	San Francisco, Calif.	P—7:30-mid.
WFBM	ae	1000	1C	Indianapolis, Ind.	C—7:30-10:15; noon-3:00; 5:30-11:30
WNAC	ak	1000	CH	Boston, Mass.	E—6:30-1:00
WSBT	ak	500	1C	South Bend, Ind.	C—6:30-mid.

## 1240 kilocycles 241.8 meters

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CMAB	z	20	1249	Pinar del Rio, Cuba.	E
CMJN	z	50	.....	Carnaguey, Cuba.	E
KGCU	ak	250	1	Mandan, N. D.	M—Noon-5:00; 6:45-9:00
KLPM	ak	250	1	Minot, N. D.	C—7:00-1:00; 6:00-7:45
KTAT	ak	1000	C	Fort Worth, Texas.	C—7:00-mid.



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With Friday's Time on the Air

**KTFI** ae 1000 ..... Twin Falls, Idaho. M—6:00-mid.  
**KWAO** ae 1000 ..... San Juan, P. R. A—12:15-3:15; 6:30-10:00  
**WXYZ** ak 1000 K ..... Detroit, Mich. E—7:30-mid.

## 1250 kilocycles 239.9 meters

**KFOX** ae 1000 ..... Long Beach, Calif. P—6:00-mid.  
**WAAM** ae 1000 1a (2.5) Newark, N. J. E—7:00-9:00; 10:00-noon; 2:00-4:30; 9:00-mid.  
**WCAL** ah 1000 2 Northfield, Minn. C—9:45-10:15; 8:00-10:00  
**WDSU** ak 1000 C New Orleans, La. C—7:00-11:45  
**WGCP** ak 250 1 Newark, N. J. E—2:00-5:00; 8:00-10:00  
**WLB** ak 1000 2 Minneapolis, Minn. C—12:30-1:00; 4:00-5:00  
**WODA** z 1000 1a (2.5) Paterson, N. J. E  
**WRHM** ak 1000 2 Minneapolis, Minn. C—6:15-9:45; 10:35-12:30; 1:00-4:00; 5:00-8:00; 9:00-mid.  
**XEFA** z 500 ..... Mexico City, D. F. C

## 1260 kilocycles 238.0 meters

**KOIL** ak 1000 B Council Bluffs, Iowa. C—6:00-1:00  
**KRGV** ae 500 1 Harlingen, Texas. C—7:00-9:30; 12:30-3:30  
**KUOA** ak 1000 ..... Fayetteville, Ark. C—7:00-6:30  
**KVOA** ak 500 ..... Tucson, Ariz. M—6:00-9:00; noon-3:00; 6:00-9:00  
**KWVG** z 500 1 Brownsville, Texas. C  
**WLBW** ae 500 C(1) Erie, Pa. E—8:00-1:00  
**WNBX** ak 250 D Springfield, Vt. E—7:30-sunset  
**WTOC** ae 500 C Savannah, Ga. E—7:00-1:00  
**WEFI** ak 250 ..... Chihuahua, Chih. C—1:00-3:00; 8:00-10:30

## 1270 kilocycles 236.1 meters

**CMBC** ae 150 1 Havana, Cuba. E  
**CMCP** z 150 1 Havana, Cuba. E  
**KGCA** ak 100 2D Decorah, Iowa. C—8:30-9:45; 10:45-11:30; 12:30-2:30  
**KOL** ae 1000 CT Seattle, Wash. P—6:45-mid.  
**KVOR** ae 1000 C Colorado Springs, Colo. M—7:00-11:00  
**KWLK** ak 100 2D Decorah, Iowa. C—7:30-8:30; 9:45-10:45; 11:30-12:30; 2:30-3:30  
**WASH** ak 500 Ka Grand Rapids, Mich. E—7:00-mid.  
**WFBR** ae 500 R Baltimore, Md. E—7:10-1:00  
**WJDX** ae 1000 N Jackson, Miss. C—7:00-11:00  
**WOOD** ak 500 Ka Grand Rapids, Mich. E—7:00-mid.

## 1280 kilocycles 234.2 meters

**CMJI** ak 45 Ciego de Avila, Cuba. E  
**KFBB** ae 1000 (2.5) Great Falls, Mont. M—8:00-3:00; 5:00-10:00  
**WCAM** ae 500 1A Camden, N. J. E—11:00-noon; 2:00-5:00; 9:00-mid.  
**WCAP** ae 500 1A Asbury Park, N. J. E—9:00-11:00; noon-1:00; 8:00-9:00  
**WDOD** ae 1000 C(2.5) Chattanooga, Tenn. C—7:00-11:00  
**WIBA** ae 500 N (1) Madison, Wis. C—7:30-mid.  
**WORC** ak 500 CH Worcester, Mass. E—8:00-mid.  
**WRR** ak 500 C Dallas, Texas. C—7:00-11:00  
**WTFJ** ak 500 1A Trenton, N. J. E—1:00-2:00; 5:00-8:00  
**XEFN** ak 70 ..... Tampico, Tams. E—8:00-10:00; noon-2:00; 5:00-6:00; 7:00-10

KCYS.  
**1310**  
**DIAL**

## 1290 kilocycles 232.4 meters

**CMHL** ak 20 ..... Cienfuegos, Cuba. E—10:00-noon; 6:00-9:00  
**KDYL** ae 1000 NJ Salt Lake City, Utah. M—6:30-1:00  
**KLNC** z 100 D Blytheville, Ark. C  
**KTSA** ak 1000 C San Antonio, Texas. C—7:00-mid.  
**WEBC** ae 1000 N (2.5) Superior, Wis. C—7:00-mid.  
**WJAS** ak 1000 C (2.5) Pittsburgh, Pa. E—7:30-12:30  
**WNBZ** z 50 D Saranac Lake, N. Y. E  
**XEAC** z 100 1295 San Luis Potosi, S. L. P.  
**XFB** ak 1000 ..... Jalapa, Ver. C—8:00-9:00; 1:00-2:30; 8:00-11:30

## 1300 kilocycles 230.6 meters

**CMKJ** z 20 ..... Guantanamo, Cuba. E  
**KALE** ak 500 3CT Portland, Ore. P—7:00-10:30; 2:30-5:00; 6:00-7:00  
**KFAC** ae 1000 ..... Los Angeles, Calif. P—7:00-mid.  
**KFH** ak 1000 C2 Wichita, Kans. C—7:8:30; 9-11; 11:30-2; 3-6; 7-9; 10-11  
**KFJR** ag 500 3 Portland, Ore. P—10:30-2:30; 5:00-6:00; 7:00-mid.  
**WBBR** aej 1000 1 Brooklyn, N. Y. E—6:00-7:00; 10:00-noon; 6:00-8:00  
**WEVD** ak 500 1 New York, N. Y. E—4:00-6:00  
**WFAB** ae 1000 1 New York, N. Y. E—9:00-10:00; noon-3:00; 9:00-10:00  
**WHAZ** ae 500 1 Troy, N. Y. E—Silent  
**WIOQ** ae 1000 N Miami, Fla. E—7:15-mid.  
**WOQ** ae 1000 2 Kansas City, Mo. C—6-7; 8:35-9:05; 11-11:30; 2-3; 6-7; 9-10; 11-mid.

CUT OUT ON DOTTED LINES

## INDEX BY FREQUENCIES AND DIAL NUMBERS

With Friday's Time on the Air

### 1310 kilocycles 228.9 meters

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CFJC ak 100  
 CHCK ak 100  
 CKCV ak 50  
 KCRJ ak 100  
 KFBK ak 100  
 KFGQ ak 100  
 KFPL ak 100  
 KFPM ae 15  
 KFNR ak 100  
 KFYO ak 100  
 KGBX ae 100  
 KGCC ak 100  
 KGEZ aj 100  
 KGFW ak 100  
 KIFH z 100  
 KIT ak 100  
 KMED ck 100  
 KRMD ak 100  
 KTSM ak 100  
 KXRO ak 100  
 WAML ak 100  
 WBEO ae 100  
 WBOW ak 100  
 WBRE ak 100  
 WCLS ae 100  
 WDAH ck 100  
 WEBR aej 100  
 WEXL ak 50  
 WFBG az 100  
 WFDF ak 100  
 WGAL ae 100  
 WGH ae 100  
 WHAT ak 100  
 WIAS ak 100  
 WJAC ae 100  
 WKBB ae 100  
 WKBC ak 100  
 WLBC ak 50  
 WMBO ak 100  
 WNBH ae 100  
 WOL ae 100  
 WRAP ak 100  
 WROL ak 100  
 WSAJ ae 100  
 WSJS ak 100  
 WTSL ah 100  
 WTJS ak 100  
 WTRC ak 50  
 XEFB ak 100  
 XEJ ak 250

FLE Kamloops, B. C. P—7:30-10:30; noon-2:00; 6:00-7:30  
 Charlottetown, P. E. I. A—Noon-1:30  
 Quebec, Que. E—Noon-2:00; 6:30-8:00  
 D Jerome, Ariz. M—7:30-9:30; noon-1:00; 4:30-6:00  
 C Sacramento, Calif. P—7:00-11:00  
 7 Boone, Iowa. C  
 Dublin, Texas. C—6:30-8:30 9:00-3:15; 7:00-10:45  
 Greenville, Texas. C—7:45-9:00; 1:00-2:45; 6:00-9:00  
 (.25) Oklahoma City, Okla. C—7:30-2:00; 4:30-11:00  
 (.25) Lubbock, Texas. C—7:00-2:00; 4:00-10:00  
 C Springfield, Mo. C  
 Wolf Point, Mont. M—7:30-9:00; 11:30-3:00; 6:00-7:00  
 Kalispell, Mont. M—8:00-9:00  
 Kearney, Neb. C—7:00-9:00  
 Juneau, Alaska. L  
 Yakima, Wash. P—7:00-11:00  
 Medford, Ore. P—8:00-8:00  
 Shreveport, La. C—7:00-1:00; 5:00-8:00  
 a El Paso, Texas. M—7:00-1:30; 3:00-10:00  
 Aberdeen Wash. P—7:30-10:00  
 Laurel, Miss. C—7:00-10:00; 11:00-2:00; 4:00-7:00  
 Marquette, Mich. C—9:30-1:15; 5:00-7:00  
 Terre Haute, Ind. C—7:00-11:00  
 Wilkes Barre, Pa. E—8:00-11:30  
 b Joliet, Ill. C—Silent  
 Sa El Paso, Texas. M  
 Q (.25) Buffalo N. Y. E—7:00-1:00  
 Royal Oak, Mich. E—7:30-5:00  
 3 Altoona, Pa. E—10:30-2:30; 6:15-9:15  
 K Flint, Mich. E—7:00-mid  
 5 Lancaster, Pa. E—9:30-2:30; 4:30-6:00; 8:00-10:30  
 Newport News, Va. E—7:00-1:00; 5:00-11:00  
 4 Philadelphia, Pa. E—9:00-11:00; 1:00-2:00; 5:00-6:30  
 7 Ottumwa, Iowa. C  
 3 Johnstown, Pa. E—9:00-10:30; 4:30-6:15; 9:15-11:15  
 b E. Dubuque, Ill. C  
 6X Birmingham, Ala. C—7:00-10:00  
 Muncie, Ind. C—7:00-10:00  
 (.25) A Auburn, N. Y. E—9:00-9:00  
 A New Bedford, Mass. E—8:00-2:00; 4:00-10:00  
 5 Washington, D. C. E—7:00-1:00; 3:00-9:00  
 Reading, Pa. E—7:00-9:30; 6:00-8:00  
 Knoxville, Tenn. C—7:00-1:00; 4:00-11:00  
 C Grove City, Pa. E—Silent  
 C Winston-Salem, N. C. E—7:45-mid.  
 (.25) Philadelphia, Pa. E—7:00-9:00; noon-1:00; 6:30-9:00  
 6 (.1) Jackson, Tenn. C—7:00-2:00; 4:00-10:00  
 1315 Elkhart, Ind. C—6:00-7:30  
 XEJ 1315 Monterrey, N. L. C—11:00-2:00; 6:00-11:00  
 XEJ 250 Morelia, Mich. C—2:00-3:30; 9:00-10:00

### 1320 kilocycles 227.1 meters

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CMCY ak 500  
 KGHF ak 250  
 KGMB ak 250  
 KID ae 250  
 WADC ae 1000  
 WSMB ak 500

1325 Havana, Cuba. E  
 (.5) Pueblo, Colo. M—6:30-9:30  
 C Honolulu, T. H. L—6:00-11:00  
 (.5) Idaho Falls, Idaho. M—6:00-11:00  
 C Akron, Ohio. E—8:00-mid.  
 N New Orleans, La. C—7:00-mid.

### 1330 kilocycles 225.4 meters

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KGB agj 1000  
 KMO ak 250  
 KSCJ aj 1000  
 WDRG ae 1000  
 WSAI ak 1000  
 WTAQ ae 1000  
 XEQ z 500

CT San Diego, Calif. P—7:00-1:00  
 Tacoma, Wash. P—6:45-11:00  
 1C (.25) Sioux City, Iowa. C—7:30-11:00  
 CH Hartford, Conn. E—8:00-mid.  
 R (.25) Cincinnati, Ohio. E—8:00-mid.  
 1C Eau Claire, Wis. C—7:00-7:45  
 Mexico City, D. F.

### 1340 kilocycles 223.7 meters

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KFPY ak 1000  
 KGDY ak 250  
 KGNO ak 250  
 WCOA ae 500  
 WLEC z 250  
 WSPD ae 1000

C Spokane, Wash. P—6:45-mid.  
 Huron, S. D. C  
 Dodge City, Kans. C—6:30-9:00  
 Pensacola, Fla. E—9:00-10:00  
 Portland, Maine. E—(Mail returned)  
 C Toledo, Ohio. E—7:00-1:00

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1350 kilocycles 222.1 meters

KIDO	ak	1000	.....	Boise, Idaho.	M—8:00-8:30				
KWK	ak	1000	B	St. Louis, Mo.	C—7:00-mid.				
TGW	ak	500	.....	Guatemala City, Gua.	L—Noon-1:00; 6:00-7:00; 9:00-11:00				
WAWZ	ae	250	1	Zarephath, N. J.	E—6:00-9:00; 5:00-6:30				
WBNX	ae	250	1A	New York, N. Y.	E—9:00-11:30				
WEHC	ae	500	D	Charlottesville, Va.	E				

1360 kilocycles 220.4 meters

CMJP	ak	75	.....	Moron, Cuba.	E—10:00-noon; 8:00-10:00				
KGFR	ak	1000	.....	Long Beach, Calif.	P—6:00-mid.				
KGIR	ak	500	N (1)	Butte, Mont.	M—7:00-mid.				
WCSC	ae	500	.....	Charleston, S. C.	E—8:00-10:30; noon-2:00; 7:00-10:00				
WFBL	ak	1000	C (2.5)	Syracuse, N. Y.	E—8:00-1:00				
WGES	ae	500	.....	Chicago, Ill.	C—5:45-11:00; 5:00-8:00				
WQBC	ak	500	.....	Vicksburg, Miss.	C				

1370 kilocycles 218.8 meters

CMCN	z	250	1375	Havana, Cuba.	E				
CMCR	ak	150	1375	Havana, Cuba.	E—Noon-1:00; 4:00-5:00; 9:00-11:00				
CMGE	z	30	1375	Cardenas, Cuba.	E				
KCRC	ak	100	2(.25)	Enid, Okla.	C—6:00-9:00; 11:00-2:00; 5:00-7:45; 10:00-mid.				
KFBL	ae	50	3	Everett, Wash.	P—9:00-noon; 3:00-6:00; 9:00-mid.				
KFJM	ak	100	.....	Grand Forks, N. D.	C—7:00-9:00				
KFJZ	ae	100	.....	Fort Worth, Texas.	C—7:00-11:00				
KGAR	ae	100	(.25)	Tucson, Ariz.	M—7:00-9:00				
KGFG	bk	100	2	Oklahoma City, Okla.	C				
KGFL	ak	100	4	Roswell, N. M.	M—6:00-9:30; 2:00-7:30				
KGKL	ak	100	.....	San Angelo, Texas.	C—8:00-4:30; 6:00-10:00				
KICA	ak	100	4	Clovis, N. M.	M—9:30-2:00; 7:30-9:30				
KLUF	z	100	.....	Galveston, Texas.	C				
KMAC	ak	100	5	San Antonio, Texas.	C—7:00-8:30; 10:00-11:00; noon-1:30; 4:00-6:00; 7:00-8:00; 10:00-12:30				
KONO	ak	100	5	San Antonio, Texas.	C—6:00-7:00; 8:00-10:00; 11:00-noon; 1:30-4:00; 6:00-7:00; 8:00-10:00				
KOOS	ae	100	.....	Marshfield, Ore.	P—7:00-9:00				
KRE	ak	100	.....	Berkeley, Calif.	P—6:30-9:30; noon-3:00; 6:00-9:00				
KSO	ak	100	B(.25)	Des Moines, Iowa.	C—6:30-mid.				
KUJ	ak	100	.....	Walla Walla, Wash.	P—6:45-9:00				
KVL	ak	100	3	Seattle, Wash.	P—6:00-9:00; noon-3:00; 6:00-9:00				
KWKC	z	100	.....	Kansas City, Mo.	C				
WBTM	ak	100	7	Danville, Va.	E—8:00-1:00; 4:00-6:30				
WCBM	ak	100	(.25)A	Baltimore, Md.	E—7:00-mid.				
WDAS	ae	100	(.25)	Philadelphia, Pa.	E—9:00-11:00				
WGL	ae	100	C	Fort Wayne, Ind.	C—6:30-mid.				
WGLC	ak	100	C	Hudson Falls, N. Y.	E—7:30-mid.				
WHBD	ak	100	.....	Mount Orab, Ohio.	E—8:00-11:30; noon-9:00				
WHBO	ak	100	.....	Memphis, Tenn.	C—7:55-2:00; 4:00-10:30				
WHDF	ak	100	(.25)	Calumet, Mich.	E—7:00-9:00; 11:30-1:30; 5:30-8:30				
WIBM	ae	100	1K	Jackson, Mich.	E—7:30-9:00				
WJBK	ae	50	1	Detroit, Mich.	E—7:00-sunset; 9:00-mid.				
WJTL	ae	100	.....	Atlanta, Ga.	E				
WLEY	ak	100	(.25)	Lexington, Mass.	E—Noon-3:00; 6:00-9:00				
WLVA	ck	100	7	Lynchburg, Va.	E—7:00-11:00; 1:00-3:00; 6:30-11:00				
WMBR	ak	100	.....	Tampa, Fla.	E—7:00-9:30				
WPFB	ak	100	.....	Hattiesburg, Miss.	C				
WQDM	ae	100	D	St. Albans, Vt.	E				
WRAK	ak	100	.....	Williamsport, Pa.	E—8:30-3:00; 5:00-10:30				
WRAM	ak	100	.....	Wilmington, N. C.	E—7:30-mid.				
WRDO	ae	100	.....	Augusta, Maine.	E—9:00-1:00; 4:30-8:30				
WRJN	ae	100	.....	Racine, Wis.	C—9:00-2:30; 4:00-10:30				
WSVS	ak	50	D	Buffalo, N. Y.	E—8:30-10:00; 2:00-3:00				
XEJV	ae	100	.....	Juarez, Chih.	C—9:00-3:00; 5: 11:00				
XEZF	ae	100	.....	Mexico City, D. F.	C				

1380 kilocycles 217.3 meters

CMJC	z	150	1382	Camaguey, Cuba.	E				
KOH	ak	500	C	Reno, Nev.	P—8:00-10:00				
KQV	ak	500	2	Pittsburgh, Pa.	E—7:00-10:00				
TGX	z	75	.....	Guatemala City, Guat.					
WKBH	ae	1000	C	LaCrosse, Wis.	C—7:30-10:00				
WSMK	ak	200	2	Dayton, Ohio.	E—7:00-8:00; 10:00-mid.				
XETB	z	125	.....	Torreón, Coah.					

KCY.  
1380  
DIAL

CUT OUT  
ON DOTTED LINES

# INDEX BY FREQUENCIES AND DIAL NUMBERS

With Friday's Time on the Air

## 1390 kilocycles 215.7 meters

HIH ak 15 1395  
 KLRA ae 1000 C  
 KOY ak 500 (1)  
 WHK ae 1000 C(2.5)

San Pedro de Macoris, D. R. L-12:15-2:00; 10:00-11:00  
 Little Rock, Ark. C-7:00-mid.  
 Phoenix, Ariz. M  
 Cleveland, Ohio. E-7:00-mid.

## 1400 kilocycles 214.2 meters

KLO ah 500 C  
 KOCW z 250 (.5)  
 VOGY ak 75 .....  
 WARD ak 500 2  
 WBAA z 500 1  
 WBBC ae 500 2  
 WFOX ak 500 2  
 WKBF ak 500 1N  
 WLTH ak 500 2

Ogden, Utah. M-8:30-10:30  
 Tulsa, Okla. C  
 St. John's, Nfld. L-10:30-11:30; 1:00-2:00; 6:15-8:00  
 Brooklyn, N. Y. E  
 Lafayette, Ind. C-7:00-8:00  
 Brooklyn, N. Y. E-4:00-6:00; 10:00-1:00  
 Brooklyn, N. Y. E  
 Indianapolis, Ind. C-6:00-7:00; 8:00-mid.  
 Brooklyn, N. Y. E-1:30-4:00; 9:00-10:00

## 1410 kilocycles 212.6 meters

CKFC ak 50 5  
 CKMO z 100 5  
 CMCH ak 50 .....  
 CMCM z 15 .....  
 KFLV ak 500 4  
 KGRS ae 1000 1  
 WAAB ae 500 CH  
 WBCM ae 500 K  
 WDAG ae 1000 1  
 WHBL ae 500 4  
 WHIS ak 250 2  
 WODX ae 500 3C  
 WRBX ae 250 2  
 WWSA ck 500 3C

Vancouver, B. C. P-3:00-4:30  
 Vancouver, B. C. P  
 Havana, Cuba. E  
 Havana, Cuba. E  
 Rockford, Ill. C-10:00-12:30 3:00-6:00 8:00-10:45  
 Amarillo, Texas. C-6-8; 10-12:30; 2:15-7:30; 9-10  
 Boston, Mass. E-8:30-mid.  
 Bay City, Mich. E-8:00-mid.  
 Amarillo, Texas. C-8-10; 12:30-2:15; 7:30-9; 10-mid.  
 Sheboygan, Wis. C-7:00-10:00; 12:30-3:00; 6:00-8:00  
 Bluefield, W. Va. E-7:00-9:00; noon-3:00; 6:00-8:00  
 Mobile, Ala. C-7:00-6:15; 7:45-10:30  
 Roanoke, Va. E  
 Montgomery, Ala. C-6:00-7:45

## 1420 kilocycles 211.1 meters

KABC ak 100 .....  
 KBPS aj 100 4  
 KCMC ak 100 .....  
 KFIZ ak 100 .....  
 KGFF ak 100 .....  
 KGGC ak 100 .....  
 KGWI ak 100 1Y  
 KGIZ ak 100 .....  
 KICK z 100 .....  
 KIDW z 100 1  
 KORE ae 100 .....  
 KUMA ak 100 .....  
 KWCR ak 100 E(.25)  
 KXL ae 100 4  
 WACO ak 100 C  
 WAGM ae 100 .....  
 WAMC ae 100 .....  
 WAZL ak 100 2  
 WEED ak 100 D  
 WEHS ak 100 a  
 WELL ak 50 .....  
 WENC ak 100 D  
 WHDL ak 100 D  
 WHFC ae 100 a  
 WILM aj 100 2  
 WJBO z 100 D  
 WJMS ak 100 .....  
 WKBI ak 100 a  
 WLBf ak 100 .....  
 WMAS ak 100 CH(.25)  
 WMBc ag 100 (.25)  
 WMBH ak 100 (.25)  
 WNRA ak 100 D  
 WPAD ak 100 .....  
 WSPA ae 100 (.25)  
 WTBO ae 100 (.25)

San Antonio, Texas. C-6:00-mid.  
 Portland, Ore. P-11:00-12:30; 3:00-5:00  
 Texarkana, Ark. C-7:00-2:00; 4:00-9:00  
 Fond du Lac, Wis. C-10:00-1:00; 4:00-10:00  
 Shawnee, Okla. C-7:30-3:00; 5:00-9:00  
 San Francisco, Calif. P-9:00-1:00; 4:00-9:00  
 Trinidad, Colo. M  
 Las Vegas, Nev. M  
 Carter Lake, Iowa. C  
 Lamar, Colo. M-8:00-10:00; 7:00-10:00  
 Eugene, Ore. P-7:45-9:00  
 Yuma, Ariz. M-7:00-9:00; 11:00-2:00; 6:00-10:00  
 Cedar Rapids, Iowa. C-6:30-mid.  
 Portland, Ore. P-7:00-1:00  
 Waco, Texas. C-8:00-2:00; 5:00-10:30  
 Presque Isle, Maine. E-11:00-1:00; 4:00-7:00  
 Anniston, Ala. C-7:00-9:00  
 Hazelton, Pa. E-11:00-9:00  
 Greenville, N. C. E-9:00-6:00  
 Cicero, Ill. C-4:00-6:00  
 Battle Creek, Mich. E-9:00-9:30  
 Americus, Ga. C-7:00-6:15  
 Tupper Lake, N. Y. E  
 Cicero, Ill. C-7:00-1:30; 6:00-9:00; 11:00-1:00  
 Wilmington, Del. E-7:00-11:00; 2:00-5:00; 9:00-mid.  
 Baton Rouge, La. C  
 Ironwood, Mich. C-7:30-1:30; 4:30-7:00  
 Cicero, Ill. C-1:30-4:00  
 Kansas City, Kans. C-7:00-11:00  
 Springfield, Mass. E-8:00-mid.  
 Detroit, Mich. E-7:30-mid.  
 Joplin, Mo. C-7:30-2:00; 6:00-9:30  
 Muscle Shoals, Ala. C-7:00-10:00  
 Paducah, Ky. C  
 Spartanburg, S. C. E-7:30-2:00; 4:00-9:30  
 Cumberland, Md. E-9:00-7:00

## 1430 kilocycles 209.7 meters

CFCT ae 50 .....  
 KECA ak 1000 N  
 KGNF ak 500 D

Victoria, B. C. P-8:00-12:30; 6:00-8:00; mid.-2:0  
 Los Angeles, Calif. P-7:00-11:00  
 North Platte, Neb. C-7:00-sunset

# INDEX BY FREQUENCIES AND DIAL NUMBERS

With Friday's Time on the Air

WBAK	ak	500	1(1)	Harrisburg, Pa.	E			
WCAH	ae	500	1C	Columbus, Ohio.	E—8:00-mid.			
WFEA	ae	500	CH	Manchester, N. H.	E—7:30-11:00			
WHFC	ae	500	C	Rochester, N. Y.	E			
WHP	ak	500	1C(1)	Harrisburg, Pa.	E—8:30-10:30; 11:30-1:30; 2:30-4:00; 4:30-1:00			
WNBR	ae	500	.....	Memphis, Tenn.	C—8:00-1:00; 3:00-10:00			
WOKO	ae	500	C	Albany, N. Y.	E—7:30-1:00			

## 1440 kilocycles 208.2 meters

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CMBK	z	15	1445	Havana, Cuba.	E			
CMBL	ak	200	1445	Havana, Cuba.	E—Noon-1:00; 6:00-8:00			
KDFN	ak	500	.....	Casper, Wyo.	M—7:30-2:00; 3:30-9:00			
KLS	ae	250	D	Oakland, Calif.	P—8:00-sunset			
KXYZ	ak	250	.....	Houston, Texas.	C—6:30-1:00; 2:30-11:00			
TIFS	z	7.5	1441	Cartago, C. R.	L			
WBIG	ae	500	C(1)	Greensboro, N. C.	E—8:00-11:00			
WCBA	aj	250	a	Allentown, Pa.	E—7:30-mid.			
WMBD	ae	500	3C(1)	Peoria, Ill.	C—6:00-11:00; 8:00-mid.			
WSAN	aj	250	a	Allentown, Pa.	E—7:30-mid.			
WTAD	ak	500	3	Quincy, Ill.	C—11:00-8:00			

## 1450 kilocycles 206.8 meters

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KTBS	ck	1000	N	Shreveport, La.	C—7:00-mid.			
TIEP	z	7.5	.....	San Jose, C. R.	L			
WGAR	ak	500	B(1)	Cleveland, Ohio.	E—6:00-1:00			
WHOM	ae	250	.....	Jersey City, N. J.	E—8:00-mid.			
WSAR	ae	250	A	Fall River, Mass.	E—8:00-3:30; 5:00-10:00			
WTFI	ak	500	.....	Athens, Ga.	E—8:00-9:00			
XEAB	ak	7.5	.....	Neuvo Laredo, Tams.	C—10:00-3:00; 4:00-7:00			

## 1460 kilocycles 205.4 meters

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KSTP	ae	25000	(N 10)	St. Paul, Minn.	C—6:45-12:30			
WJSV	ak	10000	C	Washington, D. C.	E—6:30-mid.			

## 1470 kilocycles 204.0 meters

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KGA	ak	5000	N	Spokane, Wash.	P—6:00-mid.			
WLAC	ae	5000	C	Nashville, Tenn.	C—7:00-mid.			

## 1480 kilocycles 202.6 meters

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KOMA	ak	5000	C	Oklahoma City, Okla.	C—6:30-mid.			
WKBW	ae	5000	C	Buffalo, N. Y.	E—10:00-1:00			

## 1490 kilocycles 201.2 meters

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WCKY	ae	5000	BY	Covington, Ky.	E—7:00-mid.			
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## 1500 kilocycles 199.9 meters

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CRCS	z	100	.....	Chicoutimi, Que.				
KDB	ak	100	CT	Santa Barbara, Calif.	P—7:30-mid.			
KGFI	ak	100	(.25)	Corpus Christi, Tex.	C—7:00-3:00; 6:00-10:00			
KGFK	ak	100	.....	Moorhead, Minn.	C—8:00-9:00			
KGKB	ak	100	.....	Tyler, Texas.	C—8:00-10:00; noon-2:00; 5:00-6:00; 7:30-9:00			
KGKY	ck	100	.....	Scottsbluff, Neb.	M—9:00-1:30; 5:30-9:00			
KNOW	ak	100	.....	Austin, Texas.	C—7:30-2:00; 4:00-10:00			
KPJM	ak	100	.....	Prescott, Ariz.	M—7:00-8:00			
KPO	aj	100	.....	Wenatchee, Wash.	P—7:00-10:00			
KREG	ak	100	.....	Santa Ana, Calif.	P—9:00-11:00			
KXO	al	100	.....	El Centro, Calif.	P—7:00-2:00; 4:00-9:00			
WCNW	ak	100	1A	Brooklyn, N. Y.	E—2:00-6:00; 8:00-10:00			
WFDV	ak	100	.....	Rome, Ga.	C—7:00-10:00; noon-3:00; 6:00-9:00			
WHEF	z	100	P(.25)	Kosciusko, Miss.	C			
WKBV	z	100	Y	Connersville, Ind.	C			
WKBZ	ak	100	.....	Ludington, Mich.	E—9:00-9:00			
WKEU	ak	100	.....	LaGrange, Ga.	C—10:00-noon; 3:00-6:00			
WMBQ	ae	100	1	Brooklyn, N. Y.	E—9:00-11:00; 6:00-8:00			
WMPC	ak	100	.....	Lapeer, Mich.	E—10:00-2:00; 3:30-6:00; 7:00-10:30			
WNBF	ae	100	.....	Binghamton, N. Y.	E—7:30-10:00			
WOPI	ae	100	.....	Bristol, Tenn.	E—7:00-2:00; 3:00-8:00			
WPEN	ck	100	(.25)A	Philadelphia, Pa.	E—7:30-10:00			
WRDW	ae	100	.....	Augusta, Ga.	E			
WYSB	ae	100	A	Rutland, Vt.	E—10:00-1:00; 5:00-9:00			
WRRL	ak	100	1	Woodside, N. Y.	E—8:00-9:00; 11:00-2:00; 10:00-12:30			
WWSW	ae	100	(.25)	Pittsburgh, Pa.	E—8:00-11:45			

**KCY5.  
1500  
DIAL**

## INDEX BY LOCATIONS

Frequency in kilocycles in second column. Night power in watts in third column. Network affiliations in fourth column: C Columbia, R National Red, B National Blue, N National Red and Blue. A Amalgamated. F Canadian.

<b>ALABAMA</b>		<b>Hollywood</b>		<b>Storrs</b>		<b>Chicago</b>	
Anniston		KFWB 950 1000		WCAC 600 250		KYW 1020 10000 N	
WAMC 1420 100		KMTR 570 500		<b>DELAWARE</b>		WAFF 920 500	
<b>Birmingham</b>		KNX 1050 25000		<b>Wilmington</b>		WBBM 770 25000 C	
WAPI 1140 5000 N		<b>Long Beach</b>		WDEL 1120 250 A		WCFL 970 1500 B	
WBRC 930 500 C		KFOX 1250 1000		WILM 1420 100		WCRW 1210 100	
WKBC 1310 100		KGER 1360 1000		<b>DISTRICT OF COLUMBIA</b>		WEDC 1210 100	
<b>Gadsden</b>		<b>Los Angeles</b>		<b>Washington</b>		WENR 870 50000 N	
WJBY 1210 100		KECA 1430 1000 N		WJSV 1460 10000 C		WGES 1360 500	
<b>Huntsville</b>		KFCF 1300 1000		WMAL 630 250 B		WGN 720 25000 C	
WBHS 1200 100		KFI 640 50000 N		WOL 1310 100 A		WJJD 1130 20000	
<b>Mobile</b>		KFSG 1120 500		WRC 950 500 R		WLS 870 50000 N	
WODX 1410 500 C		KFVD 1000 250		<b>FLORIDA</b>		WMAQ 670 5000 N	
<b>Montgomery</b>		KGFJ 1200 100		<b>Clearwater</b>		WMBI 1080 5000	
WSFA 1410 500 C		KHJ 900 1000 C		WFLA 620 1000 N		WSBC 1210 100	
<b>Muscle Shoals</b>		KRDK 1120 500		<b>Gainesville</b>		WEHS 1420 100	
WNRA 1420 100		KTM 780 500		WRUF 830 5000		WHFC 1420 100	
<b>Troy</b>		<b>Oakland</b>		<b>Jacksonville</b>		WKBI 1420 100	
WHET 1210 100		KLS 1440 250		WJAX 900 1000 N		<b>Decatur</b>	
<b>ALASKA</b>		KLX 880 1000		<b>Miami</b>		WJBL 1200 100	
<b>Anchorage</b>		KROW 930 500		WIOD 1300 1000 N		<b>East Dubuque</b>	
KFOD 600 250		<b>Pasadena</b>		WQAM 560 1000 C		WKBB 1310 100	
<b>Juneau</b>		KPPC 1210 50		<b>Orlando</b>		<b>Harrisburg</b>	
KIFH 1310 100		<b>Sacramento</b>		WDBO 580 250 C		WEBQ 1210 100	
<b>Ketchikan</b>		KFBK 1310 100 C		<b>Pensacola</b>		Joliet	
KGBU 900 500		KFXM 1210 100		WCOA 1340 500		WCLS 1310 100	
<b>ARIZONA</b>		<b>San Bernardino</b>		<b>St. Petersburg</b>		<b>LaSalle</b>	
<b>Jerome</b>		KFSN 600 1000 N		WSUN 620 1000 N		WJBC 1200 100	
KCRJ 1310 100		KGB 1330 1000 C		<b>Tampa</b>		WPeoria	
<b>Lowell</b>		<b>San Francisco</b>		WDAE 1220 1000 C		WMBD 1440 500 C	
KSUN 1200 100		KERC 610 1000 C		WMBR 1370 100		Quincy	
<b>Phoenix</b>		KFWJ 930 500		<b>GEORGIA</b>		WTAD 1440 500	
KOY 1390 500		KGGC 1420 100		<b>Americus</b>		Rockford	
KTAR 620 500 N		KGO 790 7500 N		WENC 1420 100		KFLV 1410 500	
<b>Prescott</b>		KJBS 1070 100		<b>Athens</b>		<b>Rock Island</b>	
KPJM 1500 100		KPO 680 50000 N		WTFI 1450 500		WHBF 1210 100	
<b>Tucson</b>		KTAB 560 1000		<b>Atlanta</b>		<b>Springfield</b>	
KGAR 1370 100		KYA 1230 1000 N		WGST 890 250 C		WCBS 1210 100	
KVOA 1260 500		<b>San Jose</b>		WJTL 1370 100		WTAX 1210 100	
<b>Yuma</b>		KQW 1010 500		WSB 740 50000 N		<b>Tuscola</b>	
KUMA 1420 100		<b>Santa Ana</b>		<b>Augusta</b>		WDZ 1070 100	
<b>ARKANSAS</b>		KREG 1500 100		WRDW 1500 100		<b>Urbana</b>	
<b>Blytheville</b>		<b>Santa Barbara</b>		<b>Columbus</b>		WILL 890 250	
KLCN 1290 100		KDB 1500 100 C		WRBL 1200 100		<b>Zion</b>	
<b>Fayetteville</b>		<b>Stockton</b>		WLaGrange		<b>INDIANA</b>	
KUOA 1260 1000		KGDM 1100 250		WKEU 1500 100		<b>Anderson</b>	
<b>Fort Smith</b>		KWG 1200 100 C		<b>Macon</b>		WHBU 1210 100	
KFPW 1210 100		<b>COLORADO</b>		WMAZ 1180 500		<b>Connersville</b>	
<b>Hot Springs</b>		<b>Colorado Springs</b>		<b>Rome</b>		WEDV 1500 100	
KTHS 1040 10000 N		KVOR 1270 1000 C		<b>Savannah</b>		WKBV 1500 100	
<b>Little Rock</b>		<b>Denver</b>		WTOC 1260 500 C		<b>Elkhart</b>	
KARK 890 250		KFEL 920 500		<b>Thomasville</b>		WTRC 1310 50	
KGHI 1200 100		KFFX 920 500		WQDX 1210 100		<b>Evansville</b>	
KLRA 1390 1000 C		KLZ 560 1000 C		<b>HAWAII</b>		WGBF 630 500	
<b>Paragould</b>		KOA 830 12500 N		<b>Hilo</b>		<b>Fort Wayne</b>	
KBTM 1200 100		KPOF 880 500		KHFV 1210 100		WGL 1370 100 C	
<b>Texarkana</b>		<b>Grand Junction</b>		<b>Honolulu</b>		WOWO 1160 10000 C	
KCMC 1420 100		KFXJ 1200 100		KGMB 1320 250 C		<b>Gary</b>	
<b>CALIFORNIA</b>		<b>Greeley</b>		KGU 750 2500 N		WIND 560 1000 C	
<b>Bakersfield</b>		KFKA 880 500		<b>IDAHO</b>		<b>Hammond</b>	
KERN 1200 100 C		<b>Lamar</b>		<b>Boise</b>		WWAE 1200 100	
<b>Berkeley</b>		KIDW 1420 100		KIDO 1350 1000		<b>Indianapolis</b>	
KRE 1370 100		<b>Pueblo</b>		<b>Idaho Falls</b>		WFBI 1230 1000 C	
<b>Beverly Hills</b>		KGHF 1320 250		KID 1320 250		WKBF 1400 500 N	
KMPG 710 500		<b>Trinidad</b>		<b>Nampa</b>		<b>Muncie</b>	
<b>Burbank</b>		KGJW 1420 100		KFXD 1200 100		WLBC 1310 50	
KELW 780 500		<b>Yuma</b>		<b>Pocatello</b>		<b>South Bend</b>	
<b>El Centro</b>		KGEK 1200 100		KSEI 890 250		WFAM 1200 100 C	
KXO 1500 100		<b>CONNECTICUT</b>		<b>Twin Falls</b>		WSBT 1230 500 C	
<b>Eureka</b>		<b>Bridgeport</b>		KTFI 1240 1000		<b>Terre Haute</b>	
KIEM 1210 100		WICC 600 250 C		<b>ILLINOIS</b>		WBOW 1310 100	
<b>Fresno</b>		<b>Hartford</b>		<b>Carthage</b>		West Lafayette	
KMJJ 580 500 C		WDRC 1330 1000 C		WCAZ 1070 50		WBAA 1400 500	
<b>Glendale</b>		WTIC 1060 50000 R					
KIEV 850 100							

INDEX BY LOCATIONS

<b>IOWA</b>			<b>Bangor</b>	WRHM 1250 1000	WOW 590 1000 R
Ames			WABI 1200 100	<b>Moorehead</b>	<b>Scottsbluff</b>
WOI 640 5000			WLBZ 620 500 C	KGFK 1500 100	KGKY 1500 100
<b>Boone</b>			<b>Portland</b>	<b>Northfield</b>	<b>York</b>
KFGQ 1310 100			WCSH 940 1000 R	WCAL 1250 1000	KGBZ 930 500
<b>Carter Lake</b>			WLEC 1340 250	<b>St. Paul</b>	<b>NEVADA</b>
KICK 1420 100			<b>Presque Isle</b>	KSTP 1460 25000 N	Las Vegas
<b>Cedar Rapids</b>			WAGM 1420 100	<b>MISSISSIPPI</b>	KGIX 1420 100
KWCR 1420 100 B			<b>MARYLAND</b>	<b>Greenville</b>	<b>Reno</b>
<b>Council Bluffs</b>			<b>Baltimore</b>	WKFI 1210 100	KOH 1380 500 C
KOIL 1260 1000 B			WBAL 1060 10000 B	<b>Hattiesburg</b>	<b>NEW HAMPSHIRE</b>
<b>Decorah</b>			WCAO 600 250 C	WPFB 1370 100	<b>Manchester</b>
KGCA 1270 100			WCBM 1370 100 A	<b>Jackson</b>	WFEA 1430 500 C
KWLC 1270 100			WFBR 1270 500 R	WJDX 1270 1000 N	<b>Portsmouth</b>
<b>Des Moines</b>			<b>Cumberland</b>	<b>Kosciusko</b>	WHEB 740 250
KSO 1370 100 B			WTBO 1420 100	WHEF 1500 100	<b>NEW JERSEY</b>
WOC- 1000 50000 R			<b>Hagerstown</b>	<b>Laurel</b>	<b>Asbury Park</b>
WHO			WJEJ 1210 100	WAML 1310 100	WCAP 1280 500 A
<b>Iowa City</b>			<b>MASSACHUSETTS</b>	<b>Meridian</b>	<b>Atlantic City</b>
WSUI 880 500			<b>Babson Park</b>	WCOC 880 500	WPG 1100 5000 C
<b>Marshalltown</b>			WBSO 920 500	<b>Mississippi City</b>	<b>Camden</b>
KFJB 1200 100			<b>Boston</b>	WGCM 1210 100	WCAM 1280 500 A
<b>Ottumwa</b>			WAAB 1410 500 C	<b>Tupelo</b>	<b>Jersey City</b>
WIAS 1310 100			WBZ 990 25000 B	WJEM 990 500	WAAT 940 300
<b>Shenandoah</b>			WEEL 590 1000 R	<b>Vicksburg</b>	WHOM 1450 250
KFNF 890 500			WHDH 830 1000 A	WQBC 1360 500	<b>Newark</b>
KMA 930 500			WNAK 1230 1000 C	<b>MISSOURI</b>	WAAM 1250 1000
<b>Sioux City</b>			<b>Fall River</b>	<b>Cape Girardeau</b>	WGCP 1250 250
KSCJ 1330 1000 C			WSAR 1450 250 A	KFVS 1210 100	WOR 710 5000
<b>Waterloo</b>			<b>Lexington</b>	<b>Columbia</b>	<b>Paterson</b>
WMT 600 500 C			WLEY 1370 100 A	KFRU 630 500	WODA 1250 1000
<b>KANSAS</b>			<b>New Bedford</b>	<b>Jefferson City</b>	<b>Red Bank</b>
<b>Abilene</b>			WNBH 1310 100 A	WOS 630 500	WJBI 1210 100 A
KFBI 1050 5000			<b>Springfield</b>	<b>Joplin</b>	<b>Trenton</b>
<b>Coffeyville</b>			WBZA 990 1000 B	WMBH 1420 100	WTNJ 1280 500 A
KGGF 1010 500			WMAS 1420 100 C	<b>Kansas City</b>	<b>Zarephath</b>
<b>Dodge City</b>			<b>Worcester</b>	KMBC 950 1000 C	WAWZ 1350 250
KGNO 1340 250			WORC 1280 500 C	KWKX 1370 100	<b>NEW MEXICO</b>
<b>Kansas City</b>			WTAG 580 250 R	WDAF 610 1000 R	<b>Albuquerque</b>
WLBK 1420 100			<b>MICHIGAN</b>	WHB 860 500	KGGM 1230 250
<b>Lawrence</b>			<b>Battle Creek</b>	WOO 1300 1000	KOB 1180 10000
KFKU 1220 500			WELL 1420 50	<b>St. Joseph</b>	<b>Clovis</b>
WREN 1220 1000 B			<b>Bay City</b>	KFEQ 680 2500	KICA 1370 100
<b>Manhattan</b>			WBCM 1410 500	<b>St. Louis</b>	<b>Roswell</b>
KSAC 580 500			<b>Calumet</b>	KFUO 550 500	KGFL 1370 100
<b>Topeka</b>			WHDF 1370 100	KMOX 1090 50000 C	<b>NEW YORK</b>
WIBW 580 1000 C			<b>Detroit</b>	KSD 550 500 R	<b>Albany</b>
<b>Wichita</b>			WJBK 1370 50	KWK 1350 1000 B	WOKO 1430 500 C
KFH 1300 1000 C			WJR 750 10000 B	WEW 760 1000	<b>Auburn</b>
<b>KENTUCKY</b>			WMBC 1420 100	WIL 1200 100	WMBO 1310 100
<b>Covington</b>			WWJ 920 1000 R	<b>Springfield</b>	<b>Binghamton</b>
WCKY 1490 5000 B			WXYZ 1240 1000	KGXB 1310 100	WBNF 1500 100
<b>Hopkinsville</b>			<b>East Lansing</b>	KGIZ 560 500	<b>Brooklyn</b>
WFIW 940 1000			WKAR 1040 1000	<b>MONTANA</b>	WARD 1400 500
<b>Louisville</b>			<b>Flint</b>	<b>Billings</b>	WBBC 1400 500
WHAS 820 25000 C			WFDF 1310 100	KGHL 950 1000 N	WBBR 1300 1000
WLAP 1200 100			<b>Grand Rapids</b>	<b>Butte</b>	WCNW 1500 100 A
<b>Paducah</b>			WASH 1270 500	KGIR 1360 500 N	WFOX 1400 500
WPAD 1420 100			WOOD 1270 500	<b>Great Falls</b>	WLTH 1400 500
<b>LOUISIANA</b>			<b>Ironwood</b>	KFBH 1280 1000	WMBQ 1500 100
<b>Baton Rouge</b>			WJMS 1420 100	<b>Kalispell</b>	<b>Buffalo</b>
WJBO 1420 100			<b>Jackson</b>	KGEZ 1310 100	WBEN 900 1000 R
<b>Monroe</b>			WIBM 1370 100	<b>Missoula</b>	WEBR 1310 100
KMLB 1200 100			<b>Kalamazoo</b>	KGVO 1200 100	WGR 550 1000 C
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WBXB 1200 100			<b>Lapeer</b>	KGCC 1310 100	WSVS 1370 50
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WJBW 1200 100			<b>Ludington</b>	<b>Clay Center</b>	WCAD 1220 500
WSMB 1320 500 N			WKBZ 1500 100	KMMJ 740 1000	<b>Chester</b>
WWL 850 10000			<b>Marquette</b>	Kearney	WGNV 1210 100
<b>Shreveport</b>			WBEF 1310 100	KGFW 1310 100	<b>Elmira</b>
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KTBS 1450 1000 N			WEXL 1310 50	KFAB 770 5000 C	<b>Freeport</b>
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KWKH 850 10000			<b>Fergus Falls</b>	<b>Norfolk</b>	<b>Hudson Falls</b>
<b>MAINE</b>			KGDE 1200 100	WJAC 1060 1000	WGLC 1370 100 C
<b>Augusta</b>			<b>Minneapolis</b>	<b>North Platte</b>	<b>Jamestown</b>
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			WDGY 1180 1000	<b>Omaha</b>	
			WLB 1250 1000	WAAW 660 500	

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WBOQ 860 50000	WHK 1390 1000 C	WJAC 1310 100	WGAL 1310 100	<b>Chattanooga</b>	WDOD 1280 1000 C
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WEVD 1300 500	WTAM 1070 50000 R	<b>Philadelphia</b>	WCAU 1170 50000 C	<b>Knoxville</b>	WNOX 560 1000 C
WFAB 1300 1000	<b>Columbus</b>	WCAU 1170 50000 C	WDAS 1370 100	<b>WROL</b>	WROL 1310 100
WFNN 1010 250	WAUI 640 500	WDAS 1370 100	WFI 560 500 R	<b>Memphis</b>	WHBQ 1370 100
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WJZ 760 50000 B	WOSU 570 750	WIP 610 500 C	WHD 1370 100	<b>WNB</b>	WNB 1430 500
WLWL 1100 5000	WSEN 1210 100	WLIT 560 500 R	WRAX 1020 250	<b>WREC</b>	WREC 600 500 C
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WNY 1130 1000	<b>Maunt Orab</b>	WTEL 1310 100	KDKA 980 50000 B	<b>Springfield</b>	WSX 1210 100
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WRNY 1010 250	WSPD 1340 1000 C	WJAS 1290 1000 C	WWSW 1500 100		
<b>Rochester</b>	<b>Youngstown</b>	WWSW 1500 100	<b>Reading</b>		
WHAM 1150 25000 B	WKBN 570 500 C	<b>Reading</b>	WEEU 830 1000	<b>TEXAS</b>	
WHFC 1430 500 C	<b>Zanesville</b>	WRAW 1310 100	WQAN 880 250	<b>Amarillo</b>	KGRS 1410 1000
<b>Saranac Lake</b>	WALR 1210 100	<b>Scranton</b>	WGBI 880 250	<b>WADG</b>	WADG 1410 1000
WNBZ 1290 50	<b>OKLAHOMA</b>	WGBI 880 250	WQAN 880 250	<b>Austin</b>	KNOW 1500 100
<b>Schenectady</b>	<b>Eik City</b>	WQAN 880 250	<b>Silverhaven</b>	<b>Beaumont</b>	KFDM 560 500
WGY 790 50000 R	KASA 1210 100	<b>Scranton</b>	WNBO 1200 100	<b>Brownsville</b>	KWWG 1260 500
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WSYR 570 250 B	<b>Norman</b>	<b>Silverhaven</b>	WBAK 1210 100	<b>Dallas</b>	KRLD 1040 10000 C
<b>Troy</b>	WNAD 1010 500	WNBO 1200 100	<b>Villikes-Barre</b>	<b>WFAA</b>	WFAA 800 50000 N
WHAZ 1300 500	<b>Oklahoma City</b>	WBAK 1210 100	WBBX 1200 100	<b>WRR</b>	WRR 1280 500 C
<b>Upper Lake</b>	KFXR 1310 100	<b>Villikes-Barre</b>	WBR 1310 100	<b>Dublin</b>	KFPL 1310 100
WHDL 1420 100	KGFG 1370 100	WBR 1310 100	<b>Villiamsport</b>	<b>El Paso</b>	KTSM 1310 100
<b>Utica</b>	KOMA 1480 5000 C	<b>Villiamsport</b>	WRAK 1370 100	<b>Fort Worth</b>	WDAH 1310 100
WIBV 1200 100	WKY 900 1000 N	<b>York</b>	WORK 1000 1000	<b>Fort Worth</b>	KEFJ 1370 100
<b>White Plains</b>	<b>Ponca City</b>	<b>York</b>	<b>PHILIPPINES</b>	<b>Galveston</b>	KTAT 1240 1000 C
WFAS 1210 100 A	WBBZ 1200 100	<b>WORK</b>	<b>Cebu</b>	<b>WAP</b>	WBAP 800 50000 N
<b>Woodside</b>	<b>Shawnee</b>	<b>WORK</b>	<b>KZRC</b>	<b>Greenville</b>	KLUF 1370 100
WRWL 1500 100	KGFF 1420 100	<b>WORK</b>	<b>Manila</b>	<b>KFPM</b>	KFPM 1310 15
<b>NORTH CAROLINA</b>	<b>Tulsa</b>	<b>WORK</b>	<b>KZEG</b>	<b>Harlingen</b>	KRGV 1260 500
<b>Asheville</b>	KOCW 1400 250	<b>WORK</b>	<b>KZKA</b>	<b>Houston</b>	KPRC 920 1000 N
WVNC 570 1000 N	KVOO 1140 5000 N	<b>WORK</b>	<b>KZRM</b>	<b>KTRH</b>	KTRH 1120 1000 C
<b>Charlotte</b>	<b>OREGON</b>	<b>WORK</b>	<b>PORTO RICO</b>	<b>KXYZ</b>	KXYZ 1440 250
WBT 1080 25000 C	<b>Corvallis</b>	<b>WORK</b>	<b>San Juan</b>	<b>Lubbock</b>	KBK 1370 100
WSOC 1210 100	<b>KOAC</b>	<b>WORK</b>	<b>RHODE ISLAND</b>	<b>San Angelo</b>	KGKL 1370 100
<b>Greensboro</b>	KOAC 550 1000	<b>WORK</b>	<b>Providence</b>	<b>San Antonio</b>	KABC 1420 100
WBIQ 1440 500 C	<b>Eugene</b>	<b>WORK</b>	WEAN 780 500 C	<b>Tyler</b>	KMAC 1370 100
<b>Greenville</b>	KORE 1420 100	<b>WORK</b>	WJAR 890 500 R	<b>Waco</b>	KONO 1370 100
WEED 1420 100	<b>Klamath Falls</b>	<b>WORK</b>	WPRO 1210 100 A	<b>Wichita Falls</b>	KTSA 1290 1000 C
<b>Raleigh</b>	KFJI 1210 100	<b>WORK</b>	<b>SOUTH CAROLINA</b>	<b>WAOI</b>	WAOI 1190 50000 N
WPTF 680 5000 N	<b>Marshfield</b>	<b>WORK</b>	<b>Charleston</b>	<b>Waco</b>	WACO 1420 100 C
<b>Wilmington</b>	KOOS 1370 100	<b>WORK</b>	WCSC 1360 500	<b>Wichita Falls</b>	KGKO 570 250
WRAM 1370 100	<b>Medford</b>	<b>WORK</b>	<b>Columbia</b>	<b>UTAH</b>	
<b>Winston-Salem</b>	<b>Portland</b>	<b>WORK</b>	WIS 1010 500 N	<b>Ogden</b>	KLO 1400 500 C
WSJS 1310 100 C	KALE 1300 500 C	<b>WORK</b>	<b>Greenville</b>		
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<b>Bismarck</b>	KEX 1180 5000 N	<b>WORK</b>	<b>Spartanburg</b>		
KFYR 550 1000 N	KFJR 1300 500	<b>WORK</b>	WSPA 1420 100		
<b>Devils Lake</b>	KFGW 620 1000 N	<b>WORK</b>	<b>SOUTH DAKOTA</b>		
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<b>Canton</b>	<b>Glenside</b>	<b>WORK</b>	KGCR 1210 100		
WHBC 1200 100	WIBG 930 25	<b>WORK</b>			
<b>Cincinnati</b>	<b>Grove City</b>	<b>WORK</b>			
WFBE 1200 100	WSAJ 1310 100	<b>WORK</b>			
WKRC 550 1000 C	<b>Harrisburg</b>	<b>WORK</b>			
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	WCOD 1200 100	<b>WORK</b>			
	WHP 1430 500 C	<b>WORK</b>			



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**Rutland**  
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**St. Albans**  
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 CFCN 1030 10000 F  
 CJCJ 690 500 F  
**Edmonton**  
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 CJCA 730 500 F  
 CKUA 580 500 F  
**Lethbridge**  
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**Kamloops**  
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**Trail**  
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**Vancouver**  
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 CKCD 1010 100  
 CKFC 1410 50  
 CKMO 1410 100  
 CKWK 1010 100  
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**Winnipeg**  
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**Chatham**  
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**Hamilton**  
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**Kingston**  
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 CKCR 645 100  
**London**  
 CFPL 730 100 F  
**North Bay**  
 CFCH 930 100 F  
**Ottawa**  
 CKCO 1010 100  
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 CFCL 930 100  
**Preston**  
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 10-AK 1200 15  
**Sudbury**  
 CJCS 780 500  
**Toronto**  
 CFRB 690 10000 C  
 CKCL 580 100  
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**Chicoutimi**  
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**Quebec**  
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 CKCV 1310 50  
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**Canora**  
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**Fleming**  
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**Prince Albert**  
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**Regina**  
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 CKCK 1010 500 F

**Saskatoon**  
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**Yorkton**  
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**San Jose**  
 TICR 912 75  
 TIEA 833 7.5  
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 TIRCA 1100 500  
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**GUATEMALA**

**Guatemala City**  
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**EL SALVADOR**

**San Salvador**  
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**MEXICO**

**AGUASCALIENTES**

**Aguascalientes**  
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**BAJA CALIFORNIA**

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 XETB 1380 125  
**Villa Acuna**  
 XER- 735 150000  
 XEF

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<b>D. F.</b>	<b>PUEBLA</b>	<b>Cardenas</b>	<b>CMCY</b> 1320 500
<b>Mexico City</b>	<b>Puebla</b>	<b>CMGE</b> 1375 30	<b>CMDE</b> 925 150
XEAD 875 250	XETH 860 100	<b>Ciego de Avila</b>	<b>CMK</b> 730 5000
XEAI 1090 100	<b>QUERETARO</b>	<b>CMJH</b> 1150 50	<b>CMQ</b> 630 500
XEB 1030 10000	<b>Queretaro</b>	<b>CMJI</b> 1280 45	<b>CMW</b> 590 1400
XEFA 1250 500	XEFS 1000 40	<b>CMJO</b> 1010 50	<b>CMX</b> 890 1000
XEFG 1085 500	<b>SAN LUIS POTOSI</b>	<b>Cienfuegos</b>	<b>Matanzas</b>
XEFZ 1370 100	<b>San Luis Potosi</b>	<b>CMHJ</b> 1125 60	<b>CMGB</b> 1205 30
XEG 1075 500	XEAC 1295 100	<b>CMHL</b> 1290 20	<b>CMGC</b> 820 30
XEK 990 100	<b>TAMAULIPAS</b>	<b>Colon</b>	<b>CMGF</b> 977 100
XEN 711 1000	<b>Nuevo Laredo</b>	<b>CMGA</b> 834 100	<b>CMGH</b> 1040 15
XEO 940 5000	XEAB 1450 7.5	<b>Cruces</b>	<b>Moron</b>
XEP 780 500	XEFE 1000 100	<b>CMHK</b> 1225 50	<b>CMJP</b> 1360 75
XEQ 1330 500	XENT 1115 150000	<b>Guantanamo</b>	<b>Pinar del Rio</b>
XETA 1180 250	<b>Reynosa</b>	<b>CMKJ</b> 1300 20	<b>CMAB</b> 1249 20
XETR 610 1000	XEAW 965 10000	<b>Havana</b>	<b>Santa Clara</b>
XETW 830 500	<b>Tampico</b>	<b>CMAF</b> 680 1000	<b>CMHI</b> 1037 250
XEW 910 5000	XEFW 1280 70	<b>CMBC</b> 1270 150	<b>Santiago</b>
XEX 1210 500	XES 1020 250	<b>CMBD</b> 965 250	<b>CMKC</b> 1034 150
XEYZ 780 10000	<b>VERACRUZ</b>	<b>CMBG</b> 1070 22	<b>DOMINICAN</b>
XFG 638 2000	<b>Jalapa</b>	<b>CMBJ</b> 1140 50J	<b>REPUBLIC</b>
XFO 940 5000	XFB 1290 1000	<b>CMBK</b> 1445 15	<b>San Pedro de</b>
XFX 840 500	<b>Veracruz</b>	<b>CMBL</b> 1445 200	<b>Marcoris</b>
XEC 1000 50	XEU 1010 100	<b>CMBN</b> 1185 150	<b>HHH</b> 1395 15
<b>Toluca</b>	<b>YUCATAN</b>	<b>CMBS</b> 780 200	<b>Santo Domingo</b>
XEC 1000 50	<b>Merida</b>	<b>CMBW</b> 1140 600	<b>HJJ</b> 1195 15
<b>HIDALGO</b>	XEFC 1050 100	<b>CMBY</b> 1230 250	<b>HJK</b> 1180 15000
<b>Pachuca</b>	XEY 546.8 10	<b>CMCZ</b> 840 500	<b>HIX</b> 580 1500
XETU 890 100	XEZ 630 500	<b>CMCA</b> 1230 150	<b>HAITI</b>
<b>JALISCO</b>	<b>WEST INDIES</b>	<b>CMCB</b> 1070 150	<b>Port-au-Prince</b>
<b>Guadalajara</b>	<b>CUBA</b>	<b>CMCD</b> 925 500	<b>HHK</b> 920 1000
XEA 1000 250	<b>Caibarien</b>	<b>CMCF</b> 890 250	<b>SOUTH</b>
XED 1155 500	CMHD 950 500	<b>CMCH</b> 1410 50	<b>AMERICA</b>
<b>MICHOACAN</b>	<b>Camaguey</b>	<b>CMCJ</b> 1185 500	<b>COLOMBIA</b>
<b>Morelia</b>	CMJC 1382 150	<b>CMCM</b> 1410 15	<b>Bogota</b>
XEI 1310 250	CMJE 1175 50	<b>CMCN</b> 1375 250	<b>HJN</b> 681 500
<b>NUEVO LEON</b>	CMJF 930 200	<b>CMCP</b> 1270 150	<b>VENEZUELA</b>
<b>Monterrey</b>	CMJG 1050 50	<b>CMCQ</b> 780 1000	<b>Caracas</b>
XEFB 1315 100	CMJK 790 500	<b>CMCR</b> 1375 150	<b>YV1BC</b> 960 5000
XEFJ 1000 100	CMJL 960 50	<b>CMCU</b> 1100 500	<b>YV2BC</b> 882 100
XEH 1132 250	CMJN 1240 50	<b>CMCW</b> 965 150	<b>YV3BC</b> 1200 1000
XET 690 500			

## He COULDN'T Believe It

(Continued from page 39)

and after listening to it for a little while I found it to be 2YA, Wellington, New Zealand. Boy, did my chest swell up then?

I have a ten-tube RCA-Victor, model R-50, and now I can get 2YA whenever I am able to tune in KTM on 780 at good volume. And I am able to tune KTM in five out of every six mornings at about 5:00 a. m., EST. —W. T. R. Morris, Jr., 3219 Garland Ave., Richmond, Va.

"In looking over the May RADEX, I noted the usual letters of skeptics of trans-Pacific reception," comments C. H. Skatzes, 45 Flax St., Delaware, Ohio. "I have received 4QG, 2YA, 3LO, as well as HJN and YV1BC

since the first of this year. Almost any good night between 4:00 and 6:00 a. m. EST., 4QG can be heard, although it has to be an exceptionally good night to receive the program without quite a bit of noise. On March 5, the stations 4QG, 2YA, 3LO and one on 630 unidentified, were coming in with exceptional clarity and volume and anyone listening on that morning should have been able to receive them easily. 3LO announced his call at 5 a. m. loud and clear enough to raise the roof. Anyone hearing a station playing Columbia recordings between 4:00 and 6:00 a. m., or broadcasting church services, is advised to stick to the station and see if it isn't one of the Aussies or Zedders. HJN and YV1BC are received more easily than the west-coast stations when they present special programs."

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<b>CFAC</b> 690 500 Calgary, Alta. Calgary Herald.	<b>CKCD</b> 1010 100 Vancouver, B. C. Vancouver Daily Province.
<b>CFBO</b> 1210 100 St. John, N. B. C. A. Munro, Ltd.	<b>CKCH</b> 1210 100 Hull, Que. Dr. J. L. Chabot.
<b>CFCF</b> 600 500 Montreal, Que. Canadian Marconi Co.	<b>CKCK</b> 1010 500 Regina, Sask. Leader-Post, Ltd.
<b>CFCH</b> 930 100 North Bay, Ont. Northern Broadcasting Co., Ltd.	<b>CKCL</b> 580 100 Toronto, Ont. Dominion Battery Co., Ltd.
<b>CFCN</b> 1030 10000 Calgary, Alta. W. W. Grant & H. G. Love.	<b>CKCO</b> 1010 100 Ottawa, Ont. Dr. G. M. Geldert.
<b>CFCO</b> 1210 100 Chatham, Ont. John Beardall.	<b>CKCR</b> 645 100 Kitchener, Ont. William C. Mitchell and G. Liddle.
<b>CFCT</b> 1430 50 Victoria, B. C. Victoria Broadcasting Assn.	<b>CKCV</b> 1310 50 Quebec, Que. Vandry, Inc.
<b>CFCY</b> 630 500 Charlottetown, P. E. I. Island Radio Broadcasting Co., Ltd.	<b>CKFC</b> 1410 50 Vancouver, B. C. Radio Service Engineers, Ltd.
<b>CFJC</b> 1310 100 Kamloops, B. C. Review Publishing Co., Ltd.	<b>CKIC</b> 1010 50 Wolfville, N. S. Acadia University.
<b>CFLC</b> 930 100 Prescott, Ont. Radio Assn. of Prescott.	<b>CKLW</b> 540 5000 Windsor, Ont. Western Ontario Broadcasting Co., Ltd.
<b>CFNB</b> 1030 500 Fredericton, N. B. James S. Neill & Sons, Ltd.	<b>CKMC</b> 1210 100 Cobalt, Ont. R. L. MacAdam.
<b>CFPL</b> 730 100 London, Ont. Free Press & Printing Co., Ltd.	<b>CKMO</b> 1410 100 Vancouver, B. C. Sprott-Shaw Radio Co.
<b>CFQC</b> 890 500 Saskatoon, Sask. Electric Shop, Ltd.	<b>CKNC</b> 1030 100 Toronto, Ont. Canadian National Carbon Co., Ltd.
<b>CFRB</b> 690 10000 Toronto, Ont. Canadian Radio Corp., Ltd.	<b>CKOC</b> 1120 500 Hamilton, Ont. Wentworth Radio Broadcasting Co., Ltd.
<b>CFRC</b> 915 100 Kingston, Ont. Queens University.	<b>CKOV</b> 1200 100 Kelowna, B. C. Okanagan Broadcasters, Ltd., Box 243.
<b>CHAB</b> 1200 25 Moose Jaw, Sask. Moose Jaw Radio Assn.	<b>CKPC</b> 930 100 Preston, Ont. Cyrus Dolph.
<b>CHCK</b> 1310 100 Charlottetown, P. E. I. J. A. Geener.	<b>CKPR</b> 780 100 Fort William, Ont. Dougall Motor Co., Ltd.
<b>CHGS</b> 1120 100 Summerside, P. E. I. R. T. Holman, Ltd.	<b>CKTB</b> 1200 100 St. Catharines, Ont. E. T. Sandell.
<b>CHLP</b> 1120 100 Montreal, Que. La Patrie Publishing Co., Ltd.	<b>CKUA</b> 580 500 Edmonton, Alta. University of Alberta.
<b>CHMA</b> 580 250 Edmonton, Alta. Christian and Missionary Alliance.	<b>CKWX</b> 1010 100 Vancouver, B. C. Western Broadcasting Co., Ltd.
<b>CHML</b> 1010 50 Hamilton, Ont. Maple Leaf Radio Co., Ltd.	<b>CKX</b> 930 500 Brandon, Man. Manitoba Telephone System.
<b>CHNC</b> 1210 100 New Carlisle, Que. Dr. Charles Houde.	<b>CKY</b> 910 5000 Winnipeg, Man. Manitoba Telephone System.
<b>CHNS</b> 1050 500 Halifax, N. S. Maritime Broadcasting Co., Ltd.	<b>CMAB</b> 1249 20 Pinar del Rio, Cuba. Jose Silvera, Marti No. 101.
<b>CHRC</b> 645 100 Quebec, Que. CHRC, Ltd.	<b>CMAF</b> 680 1000 Havana, Cuba. International Broadcasting Co., Miramar.
<b>CHWC</b> 1010 500 Regina, Sask. R. H. Williams & Sons, Ltd.	<b>CMBC</b> 1270 150 Havana, Cuba. Domingo Fernandez, Maximo Gomez No. 139.
<b>CHWK</b> 780 100 Chilliwack, B. C. Chilliwack Broadcasting Co., Ltd.	<b>CMBD</b> 965 250 Havana, Cuba. Luis Perez Garcia, Enamorados y Flores.
<b>CJCA</b> 730 500 Edmonton, Alta. Edmonton Journal, Ltd.	<b>CMBG</b> 1070 225 Havana, Cuba. John L. Stowers, Hospital No. 100.
<b>CJCB</b> 880 50 Sydney, N. S. Nathanson's Radio Headquarters.	<b>CMBJ</b> 1140 500 Havana, Cuba. Emilio Perera, Consulado y Virtudes.
<b>CJCJ</b> 690 500 Calgary, Alta. Albertan Publishing Co., Ltd.	<b>CMBK</b> 1445 15 Havana, Cuba. Alberto Alvarez, Paula y Oficios.
<b>CJCS</b> 780 500 Sudbury, Ont. George McLeod Cootes	<b>CMBL</b> 1445 200 Havana, Cuba. Julio C. Hidalgo, Vedado.
<b>CJGJ</b> 630 500 Yorkton, Sask. Winnipeg Grain Exchange.	<b>CMBN</b> 1185 150 Havana, Cuba. G. de Sequeira, Agrimonte No. 32.
<b>CJOC</b> 840 100 Lethbridge, Alta. H. R. Carson, Ltd.	<b>CMBS</b> 780 200 Havana, Cuba. Enrique Artalejo, Calzada y H. St.
<b>CJOR</b> 1210 500 Vancouver, B. C. G. C. Chandler.	<b>CMBW</b> 1140 600 Havana, Cuba. Alvarez, Moris y Cia, Obrapia No. 13.
<b>CJRM</b> 880 500 Moose Jaw, Sask. James Richardson & Sons, Ltd.	<b>CMBY</b> 1230 250 Havana, Cuba. Callejas-Estefani, Principe No. 33.
<b>CJRW</b> 880 500 Fleming, Sask. James Richardson & Sons, Ltd.	<b>CMZ</b> 1010 150 Havana, Cuba. Manuel y G. Salas, San Rafael No. 14.
<b>CKAC</b> 730 5000 Montreal, Que. LaPresse Publishing Co., Ltd.	<b>CMC</b> 840 500 Havana, Cuba. Radio Corp. of Cuba.

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<b>CMCA 1230</b> 150 Havana, Cuba. Manuel Cruz, Ave. de Italia No. 102.	<b>CMJP 1360</b> 75 Moron, Cuba. Cesar Canall, Callejas No. 28.
<b>CMCB 1070</b> 150 Havana, Cuba. Metropolitan-Radio de Cuba.	<b>CMK 730</b> 5000 Havana, Cuba. National Broadcasting Co. of Cuba.
<b>CMCD 925</b> 500 Havana, Cuba. Angel Berthezaty.	<b>CMKC 1034</b> 150 Santiago, Cuba. Pinol Batlle y Co.
<b>CMCF 890</b> 250 Havana, Cuba. Raoul Karman.	<b>CMKJ 1300</b> 20 Guantanamo, Cuba. Luis Morlote, East Giro 11.
<b>CMCH 1410</b> 50 Havana, Cuba. Wifredo y Humberto Fontanals Sanchez.	<b>CMQ 630</b> 500 Havana, Cuba. Jose Fernandez, 25 Numero 445.
<b>CMCJ 1185</b> 500 Havana, Cuba. Rafael Rodriguez, Estevez No. 4.	<b>CMW 590</b> 1400 Havana, Cuba. Troncoso y Gil, Paseo de Marti 103.
<b>CMCM 1410</b> 15 Havana, Cuba. Aurelio Balino, Belas Coain No. 639.	<b>CMX 890</b> 1000 Havana, Cuba. Casa "Lavin," Ave. de la Republica 99A.
<b>CMCN 1375</b> 250 Havana, Cuba. Antonio Ginard, Reina y Ave. Buen Retiroe	<b>CRCA 580</b> 500 Moncton, N. B. Canadian Radio Broadcasting Commission.
<b>CMCP 1270</b> 150 Havana, Cuba. Jose A. Yaniz	<b>CRCM 910</b> 5000 LaPrairie, Que. Canadian Radio Broadcasting Commission
<b>CMCQ 780</b> 1000 Havana, Cuba. Andres Martinez, Vista Alegre No. 80.	<b>CRCO 880</b> 500 Ottawa, Ont. Canadian Radio Broadcasting Commission
<b>CMCR 1375</b> 150 Havana, Cuba. Aurelio Hernandez.	<b>CRCS 1500</b> 100 Chicoutimi, Que. Canadian Radio Broadcasting Commission.
<b>CMCU 1100</b> 500 Havana, Cuba. Jorge Garcia Serra.	<b>CRCT 960</b> 5000 Toronto, Ont. Canadian Radio Broadcasting Commission.
<b>CMCW 965</b> 150 Havana, Cuba. Vilarino y Cervantes.	<b>CRCV 1100</b> 500 Vancouver, B. C. Canadian Radio Broadcasting Commission.
<b>CMCY 1325</b> 500 Havana, Cuba. Manuel D. Autran, Ave. de la Pdt s.215.	<b>HHK 920</b> 1000 Port-au-Prince, Haiti. Haitian Government.
<b>CMDE 925</b> 150 Havana, Cuba. Radio Aerial Ad.	<b>HIH 1395</b> 15 San Pedro de M., D. R. Domingo Dominguez
<b>CMGA 834</b> 100 Colon, Cuba. L. Valdes Figueroa, Marti No. 19.	<b>HIJ 1195</b> 15 Santo Domingo, D. R. Tuto Baez, Hoetos 34
<b>CMGB 1205</b> 30 Matanzas, Cuba. Jose Anorga, Magdalena No. 1.	<b>HIJK 1180</b> 15000 Santo Domingo, D. R.
<b>CMGC 820</b> 30 Matanzas, Cuba. Oscar S. Mechoso, Independencia No. 56.	<b>HIX 580</b> 1500 Santo Domingo, D. R. J. R. Saladin, Director General
<b>CMGE 1375</b> 30 Cardenas, Cuba. Genaro Sebatier, Cespedes No. 180.	<b>HJN 681</b> 500 Bogota, Colombia Government of Colombia, National Library.
<b>CMGF 977</b> 100 Matanzas, Cuba. Bernabe R. de la Torre.	<b>KABC 1420</b> 100 San Antonio, Texas. Alamo Broadcasting Co., Inc.
<b>CMGH 1040</b> 15 Matanzas, Cuba. Octavio y Julio Alvarez.	<b>KALE 1300</b> 500 Portland, Ore. Kale, Inc., New Heathman Hotel
<b>CMHD 950</b> 500 Caibarien, Cuba. Manuel Alvarez, M. Escobar 17.	<b>KARK 890</b> 250 Little Rock, Ark. Arkansas Radio & Equipment Co.
<b>CMHI 1037</b> 250 Santa Clara, Cuba. Lavis y Paz.	<b>KASA 1210</b> 100 Elk City, Okla. E. M. Woody, Casa Grande Hotel.
<b>CMHJ 1125</b> 60 Cienfuegos, Cuba. Victorino Lopez Hontanon.	<b>KBPS 1420</b> 100 Portland, Ore. Benson Polytechnic School
<b>CMHK 1225</b> 50 Cruces, Cuba. Virgilio Villaneuva Fernandez.	<b>KBTM 1200</b> 100 Paragould, Ark. Jay P. Beard.
<b>CMHL 1290</b> 20 Cienfuegos, Cuba. Oscar Zayas, San Carlos 143.	<b>KCMC 1420</b> 100 Texarkana, Ark. M. P. Mims, Box 865.
<b>CMJC 1382</b> 150 Camaguey, Cuba. Feliciano Isaac, Cisneros y G. Gomez.	<b>KCRC 1370</b> 100 Enid, Okla. Enid Radiophone Co.
<b>CMJE 1175</b> 50 Camaguey, Cuba. Manuel Fernandez, Plaza de Maceo.	<b>KCRJ 1310</b> 100 Jerome, Ariz. Chas. C. Robinson, Drawer D.
<b>CMJF 930</b> 200 Camaguey, Cuba. John L. Stowers, Hotel Plaza.	<b>KDB 1500</b> 100 Santa Barbara, Calif. Santa Barbara Broadcasters, Ltd.
<b>CMJG 1050</b> 50 Camaguey, Cuba. Jose Antonio Lefran, Martires 133.	<b>KDFN 1440</b> 500 Casper, Wyo. Donald Lewis Hathaway.
<b>CMJH 1150</b> 50 Ciego de Avila, Cuba. Luis Marauri Mendosa.	<b>KDKA 980</b> 50000 Pittsburgh, Pa. Westinghouse Electric & Mfg. Co.
<b>CMJI 1280</b> 45 Ciego de Avila, Cuba. Gilberto Gessa Lopez, Independencia 95.	<b>KDLR 1210</b> 100 Devils Lake, N. D. KDLR, Inc., 1025 3rd Street.
<b>CMJK 790</b> 500 Camaguey, Cuba. Compania Cubana Nacional de Radio S. A.	<b>KDYL 1290</b> 1000 Salt Lake City, Utah. Intermountain Broadcasting Corp.
<b>CMJL 960</b> 50 Camaguey, Cuba. Enrique Artime, Cuba No. 27.	<b>KECA 1430</b> 1000 Los Angeles, Calif. Earle C. Anthony, Inc.
<b>CMJN 1240</b> 50 Camaguey, Cuba. Ernesto de Ugarriza, Martires 11.	<b>KELW 780</b> 500 Burbank, Calif. Magnolia Park, Ltd., 3702 Magnolia
<b>CMJO 1010</b> 50 Ciego de Avila, Cuba. Jose M. Rey, C. Central & Maceo.	<b>KERN 1200</b> 100 Bakersfield, Calif. Bee Bakersfield Broadcasting Co.

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**KEX 1180 5000** Portland, Ore.  
 National Broadcasting Co.  
**KFAB 770 5000** Lincoln, Neb.  
 KFAB Broadcasting Co.  
**KFAC 1300 1000** Los Angeles, Calif.  
 E. L. Cord, 645 So. Mariposa.  
**KFBB 1280 1000** Great Falls, Mont.  
 Burrety Broadcast, Inc.  
**KFBI 1050 5000** Abilene, Kans.  
 Farmers & Bankers Life Ins. Co.  
**KFBK 1310 100** Sacramento, Calif.  
 James McClatchy Publishing Co.  
**KFBL 1370 50** Everett, Wash.  
 Leese Bros., 2814 Rucker Ave.  
**KFDM 560 500** Beaumont, Texas.  
 Sabine Broadcasting Co.  
**KFDY 550 500** Brookings, S. D.  
 South Dakota State College.  
**KFEL 920 500** Denver, Colo.  
 Eugene P. O'Fallon, Inc.  
**KFEQ 680 2500** St. Joseph, Mo.  
 Scroggin & Co. Bank  
**KFGQ 1310 100** Boone, Iowa.  
 Boone Biblical College.  
**KFH 1300 1000** Wichita, Kans.  
 Radio Station KFH Co.  
**KFI 640 50000** Los Angeles, Calif.  
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**KFIO 1120 100** Spokane, Wash.  
 Spokane Broadcasting Corp.  
**KFIZ 1420 100** Fond du Lac, Wis.  
 Reporter Printing Co.  
**KFJB 1200 100** Marshalltown, Iowa.  
 Marshall Electric Co.  
**KFJI 1210 100** Klamath Falls, Ore.  
 KFJI Broadcasters, Inc., Willard Hotel.  
**KFJM 1370 100** Grand Forks, N. D.  
 University of North Dakota.  
**KFJR 1300 500** Portland, Ore.  
 Ashley C. Dixon-KFJR, Inc.  
**KFJZ 1370 100** Fort Worth, Texas.  
 Fort Worth Broadcasters, Inc.  
**KFKA 880 500** Greeley, Colo.  
 Mid-Western Radio Corp.  
**KFKU 1220 500** Lawrence, Kans.  
 University of Kansas.  
**KFLV 1410 500** Rockford, Ill.  
 Rockford Broadcasters, Inc.  
**KFNF 890 500** Shenandoah, Iowa.  
 Henry Field Co.  
**KFOR 1210 100** Lincoln, Neb.  
 Howard Shuman  
**KFOX 1250 1000** Long Beach, Calif.  
 Nicholas & Warinner, Inc.  
**KFPL 1310 100** Dublin, Texas.  
 C. C. Baxter, Box 176  
**KFPM 1310 15** Greenville, Texas.  
 New Furniture Co.  
**KFPW 1210 100** Fort Smith, Ark.  
 Southwestern Hotel Co.  
**KFPY 1340 1000** Spokane, Wash.  
 Symons Broadcasting Co.  
**KFQD 600 250** Anchorage, Alaska  
 Anchorage Radio Club, Inc.  
**KFRC 610 1000** San Francisco, Calif.  
 Don Lee, Inc.  
**KFRU 630 500** Columbia, Mo.  
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**KFSD 600 1000** San Diego, Calif.  
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**KFSG 1120 500** Los Angeles, Calif.  
 Echo Park Evangelistic Assn.

**KFUO 550 500** St. Louis, Mo.  
 Evangelical Lutheran Church.  
**KFVD 1000 250** Los Angeles, Calif.  
 E. L. Cord, 645 S. Mariposa.  
**KFVS 1210 100** Cape Girardeau, Mo.  
 Oscar C. Hirsch, Box 275.  
**KFWB 950 1000** Hollywood, Calif.  
 Warner Bros. Motion Pictures, Inc.  
**KFWI 930 500** San Francisco, Calif.  
 Radio Entertainments, Ltd.  
**KFXD 1200 100** Nampa, Idaho.  
 Frank E. Hurt, 1024 12th Ave., S.  
**KFXF 920 500** Denver, Colo.  
 Colorado Radio Corp.  
**KFXJ 1200 100** Grand Jct., Colo.  
 Western Slope Broadcasting Co.  
**KFXM 1210 100** San Bernardino, Calif.  
 Lee Bros. Broadcasting Co.  
**KFXR 1310 100** Oklahoma City, Okla.  
 Exchange Avenue Baptist Church.  
**KFYO 1310 100** Lubbock, Texas.  
 Kirksey Bros., Hotel Lubbock.  
**KFYR 550 1000** Bismarck, N. D.  
 Mayer Broadcasting Co.  
**KGA 1470 5000** Spokane, Wash.  
 Northwest Broadcasting Co., Inc.  
**KGAR 1370 100** Tucson, Ariz.  
 Tucson Motor Service Co.  
**KGB 1330 1000** San Diego, Calif.  
 Don Lee Broadcasting System  
**KGBU 900 500** Ketchikan, Alaska.  
 Alaska Radio & Service Co., Inc.  
**KGBX 1310 180** Springfield, Mo.  
 KGBX, Inc.  
**KGBZ 930 500** York, Neb.  
 Dr. Geo. R. Miller, 716 Grant Ave.  
**KGCA 1270 100** Decatur, Iowa  
 Charles W. Greenley  
**KGCR 1210 180** Watertown, S. D.  
 Greater Kampeaka Radio Corp.  
**KGCU 1240 250** Mandan, N. D.  
 Mandan Radio Assn.  
**KGCX 1310 100** Wolf Point, Mont.  
 E. E. Krebsbach.  
**KGDE 1200 180** Fergus Falls, Minn.  
 C. L. Jaren.  
**KGDM 1180 250** Stockton, Calif.  
 E. F. Peffer, 42 S. Calif. St.  
**KGDY 1340 250** Huron, S. D.  
 Voice of S. D., Inc., 347 Dakota Ave.  
**KGEK 1200 100** Yuma, Colo.  
 Elmer G. Beecher, 109 W. 2nd St.  
**KGER 1360 1000** Long Beach, Calif.  
 Consolidated Broadcasting Co.  
**KGEZ 1310 100** Kaispell, Mont.  
 Donald C. Treloar, Box 1.  
**KGFF 1420 100** Shawnee, Okla.  
 KGFF Broadcasting Co., Inc.  
**KGFG 1370 100** Oklahoma City, Okla.  
 Oklahoma Broadcasting Co., 1113 N. Broadway.  
**KGFI 1500 100** Corpus Christi, Texas.  
 Eagle Broadcasting Co., Inc.  
**KCFJ 1200 100** Los Angeles, Calif.  
 Ben S. McGlashan, 1417 S. Figueroa.  
**KGFK 1500 100** Moorhead, Minn.  
 Red River Broadcasting Co., Inc.  
**KGFL 1370 100** Roswell, N. M.  
 KGFL, Inc., 507 N. Main St.  
**KGFW 1310 100** Kearney, Neb.  
 Central Nebraska Broadcasting Corp.  
**KGFX 630 200** Pierre, S. D.  
 Dana McNeil, 510 Summit Ave.

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<b>KGGG 1420 100 San Francisco, Calif.</b> Golden Gate Broadcasting Co.	<b>KLCN 1280 100 Blytheville, Ark.</b> C. L. Lintzenich, Main and Division St.
<b>KGGF 1010 500 Coffeyville, Kans.</b> Hugh J. Powell and Stanley Plata.	<b>KLO 1400 500 Ogden, Utah.</b> Interstate Broadcasting Co.
<b>KGGM 1230 250 Albuquerque, N. M.</b> New Mexico Broadcasting Co.	<b>KLPM 1240 250 Minot, N. D.</b> John B. Cooley.
<b>KGHF 1320 250 Pueblo, Colo.</b> C. P. Ritchie & Geo. J. Ikelman	<b>KLRA 1390 1000 Little Rock, Ark.</b> Arkansas Broadcasting Co.
<b>KGHI 1200 100 Little Rock, Ark.</b> Lloyd Judd Co., Marion Hotel.	<b>KLS 1440 250 Oakland, Calif.</b> Warner Bros., 2201 Telegraph Ave.
<b>KGHL 950 1000 Billings, Mont.</b> Northwestern Auto Supply Co.	<b>KLUF 1370 100 Galveston, Texas.</b> Geo. R. Clough, 3327 Ave. P.
<b>KGIR 1360 500 Butte, Mont.</b> KGIR, Inc., 121 W. Broadway.	<b>KLX 880 1000 Oakland, Calif.</b> Tribune Building Co.
<b>KGIW 1420 100 Trinidad, Colo.</b> Leonard E. Wilson, 326 N. Commercial	<b>KLZ 560 1000 Denver, Colo.</b> Reynolds Radio Co., Inc.
<b>KGIX 1420 100 Las Vegas, Nev.</b> J. M. Heaton, Box 656.	<b>KMA 930 500 Shenandoah, Iowa.</b> Earl E. May Seed & Nursery Co.
<b>KGIZ 560 500 Springfield, Mo.</b> Grant City Park Corp.	<b>KMAC 1370 100 San Antonio, Texas.</b> W. W. McAllister, Blue Bonnet Hotel.
<b>KGKB 1500 100 Tyler, Texas.</b> East Texas Broadcasting Co.	<b>KMBC 950 1000 Kansas City, Mo.</b> Midland Broadcasting Co.
<b>KGKL 1370 100 San Angelo, Texas.</b> KGKL, Inc., St. Angelo Hotel.	<b>KMED 1310 100 Medford, Ora.</b> Mrs. W. J. Virgin, Sparta Bldg.
<b>KGKO 570 250 Wichita Falls, Texas.</b> Wichita Falls Broadcasting Co.	<b>KMJ 580 500 Fresno, Calif.</b> James McClatchy Co.
<b>KGKY 1500 100 Scottsbluff, Neb.</b> Hilliard Co., Inc., 1517½ Broadway.	<b>KMLB 1200 100 Monroe, La.</b> Liners Broadcasting Station, Inc.
<b>KGMB 1320 250 Honolulu, T. H.</b> Honolulu Broadcasting Co., 119 Merchant St.	<b>KMMJ 740 1000 Clay Center, Neb.</b> The M. M. Johnson Co.
<b>KGNF 1430 500 North Platte, Neb.</b> Great Plains Broadcasting Co.	<b>KMO 1330 250 Tacoma, Wash.</b> KMO, Inc., Hotel Winthrop.
<b>KGNO 1340 250 Dodge City, Kans.</b> KGNO Broadcasting Station	<b>KMOX 1090 50000 St. Louis, Mo.</b> The Voice of St. Louis, Inc.
<b>KGO 790 7500 San Francisco, Calif.</b> National Broadcasting Co., Inc.	<b>KMPC 710 580 Beverly Hills, Calif.</b> Beverly Hills Broadcasting Corp.
<b>KGRS 1410 1000 Amarillo, Texas.</b> E. B. Gish, Bellaire Park.	<b>KMTR 570 500 Hollywood, Calif.</b> KMTR Radio Corp., 915 N. Formosa Ave.
<b>KGU 750 2500 Honolulu, T. H.</b> Advertiser Publishing Co., Ltd.	<b>KNOW 1500 100 Austin, Texas.</b> Southwest Broadcasting Co.
<b>KQVO 1200 100 Missoula, Mont.</b> Moby's, Inc., 240 N. Higgins.	<b>KNX 1050 25000 Hollywood, Calif.</b> Western Broadcast Co., Inc.
<b>KGW 820 1000 Portland, Ore.</b> Oregonian Publishing Co.	<b>KOA 830 12,500 Denver, Colo.</b> General Electric Co., 1370 Krameria St.
<b>KGY 1210 100 Olympia, Wash.</b> KGY, Inc., 11th and Capitol Way.	<b>KOAC 550 1000 Corvallis, Ore.</b> Oregon State Agricultural College.
<b>KHJ 900 1000 Los Angeles, Calif.</b> Don Lee Broadcasting System.	<b>KOB 1180 10000 Albuquerque, N. M.</b> Albuquerque Journal, Box 667.
<b>KHQ 590 1000 Spokane, Wash.</b> Louis Waamer, Inc.	<b>KOCW 1400 250 Tulsa, Okla.</b> J. T. Griffin.
<b>KICA 1370 100 Clovis, N. M.</b> Southwest Broadcasting Co.	<b>KOH 1380 500 Reno, Nev.</b> The Bee, Inc.
<b>KICK 1420 100 Carter Lake, Iowa.</b> Red Oak Radio Corp.	<b>KOIL 1280 1000 Council Bluffs, Iowa.</b> Mona Motor Oil Co.
<b>KID 1320 250 Idaho Falls, Idaho.</b> KID Broadcasting Co., Inc.	<b>KOIN 940 1000 Portland, Ore.</b> KOIN, Inc., New Heathman Hotel.
<b>KIDO 1350 1000 Boise, Idaho.</b> C. G. Phillips & Frank L. Hill.	<b>KOL 1270 1080 Seattle, Wash.</b> Seattle Broadcasting Co.
<b>KIDW 1420 100 Lamar, Colo.</b> Lamar Broadcasting Co., Box 688	<b>KOMA 1480 5000 Oklahoma City, Okla.</b> National Radio Manufacturing Co.
<b>KIEM 1210 100 Eureka, Calif.</b> Harold H. Hanseth, Vance Hotel.	<b>KOMO 920 1000 Seattle, Wash.</b> Fishers Blend Station, Inc.
<b>KIEV 850 100 Glendale, Calif.</b> Cannon System, Ltd., Glendale Hotel.	<b>KONO 1370 100 San Antonio, Texas.</b> Monion Broadcasting Co., St. Anthony Hotel.
<b>KIFH 1310 100 Juneau, Alaska</b> Juneau Broadcasting Co.	<b>KOOS 1370 100 Marshfield, Ora.</b> H. H. Hanseth, Hall Bldg.
<b>KIT 1310 100 Yakima, Wash.</b> Valley Broadcasters, Inc.	<b>KORE 1420 100 Eugene, Ore.</b> Frank L. Hill and Curtis G. Phillippe.
<b>KJBS 1070 100 San Francisco, Calif.</b> Julius Brunton & Sons Co.	<b>KOY 1390 500 Phoenix, Ariz.</b> Nielsen Radio & Sporting Goods Co.
<b>KJR 970 5000 Seattle, Wash.</b> Fishers Blend Station, Inc.	<b>KPCB 650 100 Seattle, Wash.</b> Queen City Broadcasting Co.

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<b>KPJM 1500 100 Prescott, Ariz.</b> Frank Mauthe, Box 852	<b>KUJ 1370 100 Walla Walla, Wash.</b> KUJ, Inc., Marcus Whitman Hotel.
<b>KPO 680 50000 San Francisco, Calif.</b> National Broadcasting Co., Inc.	<b>KUMA 1420 100 Yuma, Ariz.</b> Dr. A. H. Schermann, Box 267.
<b>KPOF 380 500 Denver, Colo.</b> Pillar Of Fire, 1845 Champa St.	<b>KUOA 1260 1000 Fayetteville, Ark.</b> KUOA, Inc., Washington Hotel.
<b>KPPC 1210 50 Pasadena, Calif.</b> Pasadena Presbyterian Church.	<b>KUSD 890 500 Vermillion, S. D.</b> University of South Dakota.
<b>KPQ 1500 100 Wenatchee, Wash.</b> Westcoast Broadcasting Co.	<b>KVI 570 500 Tacoma, Wash.</b> Puget Sound Broadcasting Co., Tacoma Hotel.
<b>KPRC 920 1000 Houston, Texas.</b> Houston Printing Co.	<b>KVL 1370 100 Seattle, Wash.</b> KVL, Inc., 5th and Virginia St.
<b>KQV 1380 500 Pittsburgh, Pa.</b> KQV Broadcasting Co., Investment Bldg.	<b>KVOA 1260 500 Tucson, Ariz.</b> Arizona Broadcasting Co., Inc.
<b>KQW 1010 500 San Jose, Calif.</b> Pacific Agricultural Foundation, Ltd.	<b>KVOO 1140 5000 Tulsa, Okla.</b> Southwestern Sales Corp.
<b>KRE 1370 100 Berkeley, Calif.</b> First Congregational Church.	<b>KVOR 1270 1000 Colorado Springs, Colo</b> S. H. Patterson
<b>KREG 1500 100 Santa Ana, Calif.</b> The Voice of the Orange Empire, Inc.	<b>KVOS 1200 100 Bellingham, Wash.</b> KVOS, Inc., Bellingham Hotel.
<b>KRGV 1260 500 Harlingen, Texas.</b> KRGV, Inc.	<b>KWCR 1420 100 Cedar Rapids, Iowa.</b> Cedar Rapids Broadcast Co.
<b>KRKD 1120 500 Los Angeles, Calif.</b> Fireside Broadcasting Corp.	<b>KWEA 1210 100 Shreveport, La.</b> Hello World Broadcasting Corp.
<b>KRLD 1040 10000 Dallas, Texas.</b> KRLD Radio Corp., Adolphus Hotel.	<b>KWFV 1210 100 Hilo, Hawaii</b> Hilo Broadcasting Co., Ltd.
<b>KRMD 1310 100 Shreveport, La.</b> Radio Station KRMD, Inc.	<b>KWG 1200 100 Stockton, Calif.</b> McClatchy Newspapers, Inc.
<b>KROW 930 500 Oakland, Calif.</b> Educational Broadcasting Corp.	<b>KWJJ 1080 500 Portland, Ore.</b> KWJJ Broadcast Co., Inc., 328 Salmon St.
<b>KRSC 1120 100 Seattle, Wash.</b> Radio Sales Corp., Washington Athletic Club.	<b>KWK 1350 1000 St. Louis, Mo.</b> Thomas Patrick, Inc., Hotel Chase.
<b>KSAC 580 500 Manhattan, Kans.</b> State College of Agriculture.	<b>KWKC 1370 100 Kansas City, Mo.</b> Wilson Duncan Broadcasting Co.
<b>KSCJ 1330 1000 Sioux City, Iowa.</b> Perkins Bro. Co., 415 Douglas St.	<b>KWKH 850 10000 Shreveport, La.</b> International Broadcasting Corp.
<b>KSD 550 500 St. Louis, Mo.</b> Pulitzer Publishing Co.	<b>KWLC 1270 100 Decorah, Iowa.</b> Luther College.
<b>KSEI 890 250 Pocatello, Idaho.</b> Radio Service Corp., 141 S. 6th Ave.	<b>KWSC 1220 1000 Pullman, Wash.</b> State College of Washington.
<b>KSL 1130 50000 Salt Lake City, Utah.</b> Radio Service Corp. of Utah.	<b>KWWG 1260 500 Brownsville, Texas.</b> Frank P. Jackson.
<b>KSO 1370 100 Des Moines, Iowa.</b> Des Moines Register & Tribune.	<b>KXA 780 250 Seattle, Wash.</b> American Radio Tel. Co., 218 Bigelow Bldg.
<b>KSOO 1110 1000 Sioux Falls, S. D.</b> Jos. Henkin, 1613 S. Duluth Ave.	<b>KXL 1420 100 Portland, Ore.</b> KXL Broadcasters, 289 Pine St.
<b>KSTP 1460 25000 St. Paul, Minn.</b> National Battery Broadcasting Co.	<b>KXO 1500 100 El Centro, Calif.</b> E. R. Irey and F. M. Bowles.
<b>KSUN 1200 100 Lowell, Ariz.</b> Copper Electrical Co.	<b>KXRO 1310 100 Aberdeen, Wash.</b> KXRO, Inc., Hotel Morek.
<b>KTAB 560 1000 San Francisco, Calif.</b> Associated Broadcasters, Inc.	<b>KXYZ 1440 250 Houston, Texas.</b> Harris County Broadcast Co.
<b>KTAR 820 500 Phoenix, Ariz.</b> KTAR Broadcasting Co.	<b>KYA 1230 1000 San Francisco, Calif.</b> Pacific Broadcasting Corp.
<b>KTAT 1240 1000 Fort Worth, Texas.</b> Southwest Broadcasting Co.	<b>KYW 1020 10000 Chicago, Ill.</b> Westinghouse Elec. & Mfg. Co.
<b>KTBS 1450 1000 Shreveport, La.</b> Tri-State Broadcasting System.	<b>KZRM 618.5 50000 Manila, P. I.</b> Erlanger and Galinger, Inc. (KZEG)
<b>KTFI, 1240 1000 Twin Falls, Idaho.</b> Radio Broadcasting Corp.	<b>NAA 690 1000 Arlington, Va.</b> United States Navy.
<b>KTHS 1040 10000 Hot Springs, Ark.</b> Chamber of Commerce.	<b>RUS 664 500 San Salvador, E. S.</b> Republic of El Salvador.
<b>KTM 780 500 Los Angeles, Calif.</b> Pickwick Broadcasting Corp., Ltd.	<b>TGW 1350 500 Guatemala, Gua.</b> Gobierno de Guatemala.
<b>KTRH 1120 1000 Houston, Texas.</b> KTRH Broadcasting Co., Rice Hotel.	<b>TGX 1380 75 Guatemala City</b>
<b>KTSA 1290 1000 San Antonio, Texas.</b> Southwest Broadcasting Co.	<b>TICR 912 75 San Jose, C. R.</b> Government of Costa Rica.
<b>KTSM 1310 100 El Paso, Texas.</b> Tri-State Broadcasting Co., Inc.	<b>TIEA 833 7.5 San Jose, C. R.</b>
<b>KTW 1220 1000 Seattle, Wash.</b> First Presbyterian Church.	<b>TIEP 1450 7.5 San Jose, C. R.</b>

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TIFB	714	30	San Jose, C. R.
TIFS	1441	7.5	Cartago, C. R.
TIGA	1014	30	Cartago, C. R.
TJGP	666	75	San Jose, C. R.
TIRCA	1100	500	San Jose, C. R. Perry Girton, Apt. 225.
TISO	550	250	San Jose, C. R. P. F. Saborio, Apt. 1354
TITV	999	7.5	San Jose, C. R.
TIVL	889	30	San Jose, C. R.
TIXA	614	7.5	San Jose, C. R.
VAS	686	2000	Glace Bay, N. S. Canadian Marconi Co., Ltd.
VOAC	800	40	St. John's, Nfld.
VOAS	810	100	St. John's, N. F. Ayre & Sons, Ltd.
VOGY	1400	75	St. John's, N. F. Newfoundland Broadcasting Co.
VOKW	1085	30	St. John's, N. F. Cyril L. Parkins.
VONF	1195	400	St. John's, N. F. Dominion Broadcasting Co., Ltd., Box 1355.
VOWR	800	500	St. John's, N. F. Wesley United Church, Box 157.
WAAB	1410	500	Boston, Mass. Bay State Broadcasting Corp., 1 Winter Pl.
WAAF	820	500	Chicago, Ill. Chicago Daily Drivers Journal.
WAAM	1250	1000	Newark, N. J. WODAAM Corp., 1080 Broad St.
WAAT	940	300	Jersey City, N. J. Bremer Broadcasting Corp., 50 Journal Sq.
WAAW	860	500	Omaha, Neb. Omaha Grain Exchange.
WABC	860	50000	New York, N. Y. Atlantic Broadcasting Corp.
WABI	1200	100	Bangor, Maine. First Universalist Society.
WACO	1420	100	Waco, Texas. Southwest Broadcasting Co.
WADC	1320	1000	Akron, Ohio. Allen T. Simmons, P. O. Box 29.
WAGM	1420	100	Presque Isle, Me. Aroostook Broadcasting Corp.
WAIU	640	500	Columbus, Ohio. Associated Radiocasting Corp.
WALR	1210	100	Zanesville, Ohio. WALR Broadcasting Corp.
WAMC	1420	100	Anniston, Ala. R. C. Hammett, 1200 Noble St.
WAML	1310	100	Laurel, Miss. Southland Radio Corp.
WAPI	1140	5000	Birmingham, Ala. WAPI Broadcasting Corp.
WARD	1400	500	Brooklyn, N. Y. United States Broadcasting Corp.
WASH	1270	500	Grand Rapids, Mich. Kunsky-Trendle Broadcasting Corp.
WAWZ	1350	250	Zarephath, N. J. Pillar of Fire.
WAZL	1420	100	Hazleton, Pa. Hazleton Broadcasting Service, Inc.
WBAA	1400	500	West Lafayette, Ind. Purdue University.

WBAK	1430	1000	Harrisburg, Pa. Commonwealth of Pennsylvania.
WBAL	1060	10000	Baltimore, Md. Consolidated Gas, Elec. Light & Power Co.
WBAP	800	50000	Fort Worth, Texas. Carter Publications, Inc.
WBAX	1210	100	Wilkes-Barre, Pa. John H. Stenger, Jr., 70 S. Main St.
WBBC	1400	500	Brooklyn, N. Y. Brooklyn Broadcasting Corp.
WBBL	1210	100	Richmond, Va. Grace Covenant Presbyterian Church.
WBBM	770	25000	Chicago, Ill. WBBM Broadcasting Corp., Wrigley Bldg.
WBBR	1300	1000	Brooklyn, N. Y. Peoples Pulpit Assn.
WBBX	1200	100	New Orleans, La. Samuel D. Reeks, Marberc Hotel.
WBBZ	1200	100	Ponca City, Okla. C. L. Carrell.
WBCM	1410	500	Bay City, Mich. James E. Davidson, Hotel Wenouah.
WBEN	900	1000	Buffalo, N. Y. WBEN, Inc. (Buffalo Evening News.)
WBEO	1310	100	Marquette, Mich. Lake Superior Broadcasting Co., Inc.
WBHS	1200	100	Huntsville, Ala. Radio Station WBHS, Inc.
WBIG	1440	500	Greensboro, N. C. North Carolina Broadcasting Co., Inc.
WBNY	1350	250	New York, N. Y. Standard Cabill Co., Inc.
WBOQ	860	50000	New York, N. Y. Atlantic Broadcasting Corp.
WBOW	1310	100	Terre Haute, Ind. Banks of Wabash, Inc., 24½ S. 6th.
WBRC	930	500	Birmingham, Ala. Birmingham Broadcasting Co., Inc.
WBRE	1310	100	Wilkes-Barre, Pa. Louis G. Baltimore, 16 N. Main.
WBSS	920	500	Babson Park, Mass. Broadcasting Service Organization, Inc.
WBT	1080	25000	Charlotte, N. C. Station WBT, Inc., Wilder Bldg.
WBTM	1370	100	Danville, Va. Piedmont Broadcasting Corp.
WBZ	990	25000	Boston, Mass. Westinghouse Elec. & Mfg. Co.
WBZA	990	1000	Springfield, Mass. Westinghouse Elec. & Mfg. Co.
WCAC	600	250	Storrs, Conn. Connecticut Agricultural College.
WCAD	1220	500	Canton, N. Y. St. Lawrence University.
WCAE	1220	1000	Pittsburgh, Pa. WCAE, Inc., Sun-Telegraph.
WCAH	1430	500	Columbus, Ohio. International Bible Students Assn.
WCAL	1250	1000	Northfield, Minn. St. Olaf College.
WCAM	1280	500	Camden, N. J. City of Camden, City Hall.
WCAO	600	250	Baltimore, Md. Monumental Radio Co.
WCAP	1280	500	Asbury Park, N. J. Radio Industries Broadcast Co.
WCAT	1200	100	Rapid City, S. D. South Dakota State School of Mines.
WCAU	1170	50000	Philadelphia, Pa. WCAU Broadcasting Co., 1622 Chestnut.
WCAX	1200	100	Burlington, Vt. Burlington Daily News, Inc.



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<b>WCAZ 1070 50</b> Carthage, Ill. Superior Broadcasting Service, Inc.	<b>WEBR 1310 100</b> Buffalo, N. Y. Howell Broadcasting Co., Inc., 735 Main.
<b>WCBM 1440 250</b> Allentown, Pa. B. Bryan Musselman, 39-41 10th St.	<b>WEDC 1210 100</b> Chicago, Ill. Emil Denmark, 3860 Ogden Ave.
<b>WCBD 1080 5000</b> Zion, Ill. Wilbur Glenn Voliva.	<b>WEED 1420 100</b> Greenville, N. C. Wm. Avera Wynne.
<b>WCBM 1370 100</b> Baltimore, Md. Baltimore Broadcasting Corp.	<b>WEEI 590 1000</b> Boston, Mass. Edison Elec. Illuminating Co.
<b>WCBS 1210 100</b> Springfield, Ill. WCBS, Inc., 208½ S. 5th.	<b>WEEU 830 1000</b> Reading, Pa. Berks Broadcasting Co., 533 Penn.
<b>WCCO 810 50000</b> Minneapolis, Minn. Northwestern Broadcasting, Inc.	<b>WEHC 1350 500</b> Charlottesville, Va. Community Brdcastg. Corp.
<b>WCFL 970 1500</b> Chicago, Ill. Chicago Federation of Labor.	<b>WEHS 1420 100</b> Cicero, Ill. WEHS, Inc., 6138 W. 22nd St.
<b>WCKY 1490 5000</b> Covington, Ky. L. B. Wilson, Inc.	<b>WELL 1420 50</b> Battle Creek, Mich. Inquirer News Co., 7 N. McCamy St.
<b>WCLO 1200 100</b> Janesville, Wis. WCLO Radio Corp.	<b>WENC 1420 100</b> Americus, Ga. Americus Broadcast Corp.
<b>WCLS 1310 100</b> Joliet, Ill. WCLS, Inc., 301 E. Jefferson St	<b>WENR 870 50000</b> Chicago, Ill. Great Lakes Broadcasting Co.
<b>WCNW 1500 100</b> Brooklyn, N. Y. Arthur Faske, 1525 Pitkin Ave.	<b>WESG 1040 1000</b> Elmira, N. Y. Elmira Star Gazette, Inc.
<b>WCOA 1340 500</b> Pensacola, Fla. Pensacola Broadcasting Co.	<b>WEVD 1300 500</b> New York, N. Y. Jewish Daily Forward, Hotel Claridge.
<b>WCOC 880 500</b> Meridian, Miss. Mississippi Broadcasting Co., Inc.	<b>WEW 760 1000</b> St. Louis, Mo. St. Louis University, 221 N. Grand Blvd
<b>WCOD 1200 100</b> Harrisburg, Pa. Keystone Broadcasting Corp	<b>WEXL 1310 50</b> Royal Oak, Mich. Royal Oak Broadcasting Co.
<b>WCRW 1210 100</b> Chicago, Ill. Clinton K. White, 2756 Pine Grove Ave.	<b>WFAA 800 50000</b> Dallas, Texas. Morning News and Journal.
<b>WCSC 1360 500</b> Charleston, S. C. South Carolina Broadcasting Co., Inc.	<b>WFAB 1300 1000</b> New York, N. Y. Fifth Avenue Broadcasting Corp.
<b>WCSH 940 1000</b> Portland, Me. Congress Square Hotel Co., 157 High.	<b>WFAM 1200 100</b> South Bend, Ind. South Bend Tribune, 200 W. Colfax.
<b>WDAE 1220 1000</b> Tampa, Fla. Tampa Publishing Co., Tampa Terrace.	<b>WFAS 1210 100</b> White Plains, N. Y. Westchester Broadcasting Corp.
<b>WDAF 910 1000</b> Kansas City, Mo. Kansas City Star Co.	<b>WFBC 1200 100</b> Greenville, S. C. Greenville News-Piedmont Co.
<b>WBAG 1410 1000</b> Amarillo, Texas. National Radio & Broadcasting Corp.	<b>WFBE 1200 100</b> Cincinnati, Ohio. WFBE, Inc., Hotel Sinton.
<b>WDAH 1310 100</b> El Paso, Texas. Tri-State Broadcasting Co., Inc.	<b>WFBG 1310 100</b> Altoona, Pa. Gable Broadcasting Co. 12th Av. & 13th St.
<b>WDAS 1370 100</b> Philadelphia, Pa. WDAS Broadcastg. Co., Inc., Broadwood Hotel.	<b>WFBL 1360 1000</b> Syracuse, N. Y. Onondaga Radio Broadcasting Corp.
<b>WDAY 940 1000</b> Fargo, N. D. WDAY, Inc., Black Bldg., 118 Broadway.	<b>WFBM 1230 1000</b> Indianapolis, Ind. Indianapolis Power & Light Co.
<b>WDBJ 930 250</b> Roanoke, Va. Times World Corp., 122 W. Church Ave.	<b>WFBR 1270 500</b> Baltimore, Md. Baltimore Radio Show, Inc.
<b>WDBO 580 250</b> Orlando, Fla. Orlando Broadcasting Co., Inc.	<b>WFDI 1310 100</b> Flint, Mich. Flint Broadcasting Co.
<b>WDEL 1120 250</b> Wilmington, Del. WDEL, Inc., 10th and King Sts.	<b>WFDV 1500 100</b> Rome, Ga. Rome Broadcasting Corp., 10 3rd Ave.
<b>WDEV 550 500</b> Waterbury, Vt. Harry C. Whitehill, Stowe St.	<b>WFEE 1430 500</b> Manchester, N. H. New Hampshire Broadcasting Co.
<b>WDGY 1180 1000</b> Minneapolis, Minn. Dr. Geo. W. Young, 909 W. Broadway.	<b>WFI 550 500</b> Philadelphia, Pa. WFI Broadcasting Co., 801 Market.
<b>WDOD 1280 1000</b> Chattanooga, Tenn. WDOD Broadcasting Corp., Hotel Patten.	<b>WFIW 940 1000</b> Hopkinsville, Ky. WFIW, Inc., 8th and Main Sts.
<b>WDRG 1330 1000</b> Hartford, Conn. WDRG, Inc., Corning Bldg., 11 Asylum St.	<b>WFLA 620 1000</b> Clearwater, Fla. Florida West Coast Broadcasting Co., Inc.
<b>WDSU 1250 1000</b> New Orleans, La. Jos. H. Uhalt, On Hotel DeSoto.	<b>WFOX 1400 500</b> Brooklyn, N. Y. Paramount Broadcasting Co., 1 Nevins St.
<b>WDZ 1070 100</b> Tuscola, Ill. James L. Bush.	<b>WGAL 1310 100</b> Lancaster, Pa. WGAL, Inc., 8 W. King St.
<b>WEAF 660 50000</b> New York, N. Y. National Broadcasting Co., Inc.	<b>WGAR 1450 500</b> Cleveland, Ohio. WGAR Broadcasting Co., Hotel Statler.
<b>WEAN 780 500</b> Providence, R. I. Shepard Broadcasting Service, Inc.	<b>WGBB 1210 100</b> Freeport, N. Y. H. H. Carman, 64 S. Grove St.
<b>WEBC 1290 1000</b> Superior, Wis. Head of the Lakes Broadcasting Co.	<b>WGBF 630 500</b> Evansville, Ind. Evansville On the Air, Inc.
<b>WEBQ 1210 100</b> Harrisburg, Ill. Harrisburg Broadcasting Co.	<b>WGBI 890 250</b> Scranton, Pa. Scranton Broadcasters, Inc.

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<b>WGES 1380 500</b> Chicago, Ill. Oak Leaves Broadcasting Station, Inc.	<b>WIAS 1310 100</b> Ottumwa, Iowa. Iowa Broadcasting Co., Hotel Ottumwa
<b>WGH 1310 100</b> Newport News, Va. Hampton Roads Broadcasting Corp.	<b>WIBA 1280 500</b> Madison, Wis. Badger Broadcasting Co., Inc.
<b>WGL 1370 100</b> Fort Wayne, Ind. F. C. Zieg, 213 W. Main St.	<b>WIBG 930 25</b> Glenside, Pa. WIBG, Inc., Keswick Bldg.
<b>WGLC 1370 100</b> Hudson Falls, N. Y. O. T. Griffin & G. F. Bissell.	<b>WIBM 1370 100</b> Jackson, Mich WIBM, Inc., Otaego Hotel.
<b>WGN 720 25000</b> Chicago, Ill. WGN, Inc., Tribune Tower.	<b>WIBU 1210 100</b> Poynette, Wis. Wm. C. Forrest, R. F. D. No. 3.
<b>WGNV 1210 100</b> Chester, N. Y. Peter Goelet (Orange County).	<b>WIBW 580 1000</b> Topeka, Kans. Topeka Broa dcasting Assn. Inc.
<b>WGR 550 1000</b> Buffalo, N. Y. Buffalo Broadcasting Corp.	<b>WIBX 1200 100</b> Utica, N. Y. WIBX, Inc., 1st Natl. Bank Bldg.
<b>WGST 890 250</b> Atlanta, Ga. Georgia School of Technology.	<b>WICC 600 250</b> Bridgeport, Conn. Shepard Broadcasting Service, Inc.
<b>WGY 790 50000</b> Schenectady, N. Y. National Broadcasting Co., Inc.	<b>WIL 1200 100</b> St. Louis, Mo. Missouri Broadcasting Corp.
<b>WHA 940 1000</b> Madison, Wis. University of Wisconsin.	<b>WILL 890 250</b> Urbana, Ill. University of Illinois.
<b>WHAD 1120 250</b> Milwaukee, Wis. Marquette University.	<b>WILM 1420 100</b> Wilmington, Del. Delaware Broadcasting Co., Inc.
<b>WHAM 1150 25000</b> Rochester, N. Y. Stromberg-Carlson Tel. Mfg. Co.	<b>WIND 560 1000</b> Gary, Ind. Johnson-Kennedy Broadcasting Corp.
<b>WHAS 820 25000</b> Louisville, Ky. Courier Journal & Louisville Times.	<b>WINS 1180 500</b> New York, N. Y. American Radio News Corp.
<b>WHAT 1310 100</b> Philadelphia, Pa. Curtis-Martin Newspapers, Inc.	<b>WIOD 1300 1000</b> Miami, Fla. Isle of Dreams Broadcasting Corp.
<b>WHAZ 1300 500</b> Troy, N. Y. Rensselaer Polytechnic Institute.	<b>WIP 610 500</b> Philadelphia, Pa. Pennsylvania Broadcasting Co.
<b>WHB 860 500</b> Kansas City, Mo. WHB Broadcasting Co., Searritt Bldg.	<b>WIS 1010 500</b> Columbia, S. C. Station WIS, Inc., 1811 Main St.
<b>WHBC 1200 100</b> Canton, Ohio. Edw. P. Graham, 319 Tusc. St., W.	<b>WISN 1120 250</b> Milwaukee, Wis. American Radio News Corp.
<b>WHBD 1370 100</b> Mount Orab, Ohio. F. P. Moler.	<b>WJAC 1310 100</b> Johnstown, Pa. WJAC, Inc., Tribune Bldg. Annex.
<b>WHBF 1210 100</b> Rock Island, Ill. Rock Island Broadcasting Co.	<b>WJAG 1060 1000</b> Norfolk, Neb. Norfolk Daily News.
<b>WHBL 1410 500</b> Sheboygan, Wis. Press Publishing Co.	<b>WJAR 890 500</b> Providence, R. I. Outlet Co., Weybossett St.
<b>WHBQ 1370 100</b> Memphis, Tenn. Broadcasting Sta. WNBQ, Inc., Hotel Claridge.	<b>WJAS 1290 1000</b> Pittsburgh, Pa. Pittsburgh Radio Supply House.
<b>WHBU 1210 100</b> Anderson, Ind. Anderson Broadcasting Corp.	<b>WJAX 900 1000</b> Jacksonville, Fla. City of Jacksonville.
<b>WHBY 1200 100</b> Green Bay, Wis. WHBY, Inc., Bellin Bldg.	<b>WJAY 610 500</b> Cleveland, Ohio. Cleveland Radio Broadcasting Corp.
<b>WHDF 1370 100</b> Calumet, Mich. Upper Michigan Broadcasting Co.	<b>WJBC 1200 100</b> LaSalle, Ill. Kaskaskia Broadcasting Co.
<b>WHDH 830 1000</b> Boston, Mass. Matheson Radio Co., 62 Boylston.	<b>WJBI 1210 100</b> Red Bank, N. J. Monmouth Broadcasting Co., Inc.
<b>WHDL 1420 100</b> Tupper Lake, N. Y. Tupper Lake Broadcasting Co.	<b>WJBK 1370 50</b> Detroit, Mich. James F. Hopkins, Inc., Curtiss Bldg.
<b>WHEB 740 250</b> Portsmouth, N. H. Granite State Broadcasting Corp.	<b>WJBL 1200 100</b> Decatur, Ill. Commodore Broadcasting, Inc.
<b>WHEC 1430 500</b> Rochester, N. Y. WHEC, Inc., 40 Franklin St.	<b>WJBO 1420 100</b> Baton Rcugs, La. Baton Rouge Broadcasting Co., Inc.
<b>WHEP 1500 100</b> Kosciusko, Miss. Attala Milling & Produce Co.	<b>WJBW 1200 100</b> New Orleans, La. C. C. Carlson, 2743 Dumaine St.
<b>WHET 1210 100</b> Troy, Ala. Troy Broadcasting Co.	<b>WJBX 1270 1000</b> Jackson, Miss. Lamar Life Insurance Co.
<b>WHFC 1420 100</b> Cicero, Ill. WHFC, Inc., 6138 W. 22nd St.	<b>WJBY 1210 100</b> Gadsden, Ala. Gadsden Broadcasting Co., 112 N. 8th St.
<b>WHIS 1410 250</b> Bluefield, W. Va. Daily Telegraph Printing Co., Inc.	<b>WJEJ 1210 100</b> Hagerstown, Md. Hagerstown Broadcasting Co., Inc.
<b>WHK 1390 1000</b> Cleveland, Ohio. Radio Air Service Corp.	<b>WJEM 990 500</b> Tupelo, Miss. Britt A. Rogers, Jr.
<b>WHN 1010 250</b> New York, N. Y. Marcus Loew Booking Agency.	<b>WJJD 1130 20000</b> Chicago, Ill. WJJD, Inc., 201 N. Wells St.

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<b>WJMS 1420 100</b> Ironwood, Mich. WJMS, Inc., St. James Hotel	<b>WLTH 1400 500</b> Brooklyn, N. Y. Voice of Brooklyn, Inc.
<b>WJR 750 10000</b> Detroit, Mich. WJR, Inc., Fisher Bldg.	<b>WLVA 1370 100</b> Lynchburg, Va. Lynchburg Broadcasting Corp.
<b>WJSV 1460 10000</b> Washington, D. C. Old Dominion Broadcasting Co.	<b>WLW 700 50000</b> Cincinnati, Ohio. Crosley Radio Corp.
<b>WJTL 1370 100</b> Atlanta, Ga. Oglethorpe University.	<b>WLWL 1100 5000</b> New York, N. Y. Missionary Society of St. Paul.
<b>WJW 1210 100</b> Akron, Ohio. WJW, Inc., 41 S. High St.	<b>WMAL 630 250</b> Washington, D. C. National Broadcasting Co., Inc.
<b>WJZ 760 50000</b> New York, N. Y. National Broadcasting Co., Inc.	<b>WMAQ 670 5000</b> Chicago, Ill. National Broadcasting Co., Inc.
<b>WKAQ 1240 1000</b> San Juan, P. R. Radio Corp. of Porto Rico.	<b>WMAS 1420 100</b> Springfield, Mass. WMAS, Inc., Hotel Stonehaven.
<b>WKAR 1040 1000</b> East Lansing, Mich. Michigan State College.	<b>WMAZ 1180 500</b> Macon, Ga. Southeastern Broadcasting Co.
<b>WKBB 1310 100</b> East Dubque, Ill. Richard W. Hoffman	<b>WMBC 1420 100</b> Detroit, Mich. Michigan Broadcasting Co.
<b>WKBC 1310 100</b> Birmingham, Ala. R. B. Broyles, Tutwiler Hotel.	<b>WMBD 1440 500</b> Peoria, Ill. Peoria Broadcasting Co.
<b>WKBF 1400 500</b> Indianapolis, Ind. Indianapolis Broadcasting, Inc.	<b>WMBG 1210 100</b> Richmond, Va. Havens and Martin, Inc.
<b>WKBH 1380 1000</b> LaCrosse, Wis. WKBH, Inc., 409 Main St.	<b>WMBH 1420 100</b> Joplin, Mo. W. M. Robertson.
<b>WKBI 1420 100</b> Cicero, Ill. WKBI, Inc., 6138 W. 22nd St.	<b>WMBI 1080 5000</b> Chicago, Ill. Moody Bible Institute.
<b>WKBN 570 500</b> Youngstown, Ohio. WKBN Broadcasting Corp.	<b>WMBO 1310 100</b> Auburn, N. Y. WMBO, Inc., Metalf Bldg.
<b>WKBV 1500 100</b> Connersville, Ind. Wm. O. Knox, Box 286	<b>WMBQ 1500 100</b> Brooklyn, N. Y. Paul J. Gollhofer, 95 Leonard St.
<b>WKBW 1480 5000</b> Buffalo, N. Y. Buffalo Broadcasting Corp.	<b>WMBR 1370 100</b> Tampa, Fla. F. J. Reynolds, 907 Florida Ave.
<b>WKBZ 1500 100</b> Ludington, Mich. Karl L. Ashbacher & Sons.	<b>WMC 780 500</b> Memphis, Tenn. Commercial Appeal, Inc., Hotel Gayoso.
<b>WKEU 1500 100</b> LaGrange, Ga. Radio Station WKEU, 906 Hill St.	<b>WMCA 570 500</b> New York, N. Y. Knickerbocker Broadcasting Co.
<b>WKFI 1210 100</b> Greenville, Miss. J. Pat Scully, Box 302.	<b>WMNN 690 250</b> Fairmont, W. Va. A. M. Rowe, Inc., 325 Main St.
<b>WKJC 1200 100</b> Lancaster, Pa. Lancaster Broadcasting Service, Inc.	<b>WMPC 1500 100</b> Lapeer, Mich. First Methodist Protestant Church.
<b>WKOK 1210 100</b> Sunbury, Pa. Sunbury Broadcasting Co.	<b>WMT 600 500</b> Waterloo, Iowa. Waterloo Broadcasting Co.
<b>WKRC 550 1000</b> Cincinnati, Ohio. WKRC, Inc., Hotel Alms.	<b>WNAC 1230 1000</b> Boston, Mass. Shepard Broadcasting Service, Inc.
<b>WKY 900 1000</b> Oklahoma City, Okla. Oklahoma Publishing Co.	<b>WNAD 1010 500</b> Norman, Okla. University of Oklahoma.
<b>WKZO 590 1000</b> Kalamazoo, Mich. John E. Fetzer, Burdick Hotel.	<b>WNAX 570 1000</b> Yankton, S. D. The House of Gurney, Inc., 2nd and Capital St.
<b>WLAC 1470 5000</b> Nashville, Tenn. Life & Casualty Insurance Co.	<b>WNBF 1500 100</b> Binghamton, N. Y. Howitt-Wool Radio Co., Inc.
<b>WLAP 1200 100</b> Louisville, Ky. American Broadcasting Corp. of Ky.	<b>WNBH 1310 100</b> New Bedford, Mass. New Bedford Broadcasting Co.
<b>WLB 1250 1000</b> Minneapolis, Minn. University of Minnesota.	<b>WNBO 1200 100</b> Silver Haven, Pa. John Brownlee Spriggs. (Washington, Pa.)
<b>WLBC 1310 50</b> Muncie, Ind. D. A. Burton, Anthony Bldg.	<b>WNBR 1430 500</b> Memphis, Tenn. Memphis Broadcasting Co., Hotel DeVoy.
<b>WLBF 1420 100</b> Kansas City, Kans. WLBF Broadcasting Co., Huron Bldg.	<b>WNB 1200 10</b> Carbondale, Pa. WNBW, Inc., 50 Main St., N.
<b>WLBL 900 2500</b> Stevens Point, Wis. Wisconsin Dept. of Agriculture and Markets.	<b>WNBX 1260 250</b> Springfield, Vt. WNBX Broadcasting Corp., 39 Main St.
<b>WLBW 1260 500</b> Erie, Pa. Broadcasters of Pennsylvania, Inc.	<b>WNBZ 1290 50</b> Saranac Lake, N. Y. Smith & Mace, 70 Broadway.
<b>WLBZ 620 500</b> Bangor, Me. Maine Broadcasting Co., Inc., 100 Main.	<b>WNDX 560 1000</b> Knoxville, Tenn. WNOX, Inc.
<b>WLEC 1340 250</b> Portland, Me. Caseo Bay Broadcasting Co.	<b>WNRA 1420 100</b> Muscle Shoals, Ala. Katryn Jones
<b>WLEY 1370 100</b> Lexington, Mass. Albert S. Moffat	<b>WNYC 810 500</b> New York, N. Y. Dept. of Plant and Structures.
<b>WLIT 560 500</b> Philadelphia, Pa. Lit Bros. Broadcasting System, Inc.	<b>WOAI 1190 50000</b> San Antonio, Texas. Southern Industries, Inc., 1038 Navarro.
<b>WLS 870 50000</b> Chicago, Ill. Agricultural Broadcasting Co.	<b>WOBU 580 250</b> Charleston, W. Va. WOBU, Inc., Ruffner Hotel.

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<b>WOC- 1000 50000 Des Moines, Iowa.</b>	<b>WRAX 1020 250 Philadelphia, Pa.</b>
<b>WHO Central Broadcastg. Co., 914 Walnut St.</b>	<b>WRAX Broadcasting Co., 217 S. Broad St.</b>
<b>WOCL 1210 50 Jamestown, N. Y.</b>	<b>WRBL 1200 100 Columbus, Ga.</b>
<b>A. E. Newton, 840 N. Main St.</b>	<b>WRBL Radio Station, Inc.</b>
<b>WODA 1250 1000 Paterson, N. J.</b>	<b>WRBX 1410 250 Roanoke, Va.</b>
<b>WODAAM Corp., 115 Ellison St.</b>	<b>Richmond Development Corp.</b>
<b>WODX 1410 500 Mobile, Ala.</b>	<b>WRC 950 600 Washington, D. C.</b>
<b>Mobile Broadcasting Corp., Battle House</b>	<b>National Broadcasting Co., Inc.</b>
<b>WOI 640 5000 Ames, Iowa.</b>	<b>WRDO 1370 100 Augusta, Me.</b>
<b>Iowa State College.</b>	<b>WRDO, Inc., Augusta House.</b>
<b>WOKO 1430 500 Albany, N. Y.</b>	<b>WRDW 1500 100 Augusta, Ga.</b>
<b>WOKO, Inc., Hotel Ten Eyck.</b>	<b>Virgil V. Evans Co., 309 8th St.</b>
<b>WOL 1310 100 Washington, D. C.</b>	<b>WREC 600 500 Memphis, Tenn.</b>
<b>American Broadcasting Co., Annapolis Hotel.</b>	<b>WREC, Inc., Hotel Peabody.</b>
<b>WOMT 1210 100 Manitowoc, Wis.</b>	<b>WREN 1220 1000 Lawrence, Kans.</b>
<b>Francis M. Kadow, Box 326.</b>	<b>Jenny Wren Co., 8th and Vermont St.</b>
<b>WOOD 1270 500 Grand Rapids, Mich.</b>	<b>WRHM 1250 1000 Minneapolis, Minn.</b>
<b>Kunsky-Trendle Broadcasting Corp.</b>	<b>Minnesota Broadcasting Corp., 115 E. Grant</b>
<b>WOPI 1500 100 Bristol, Tenn.</b>	<b>WRJN 1370 100 Racine, Wis.</b>
<b>Radiophone Broadcasting Station WOPI, Inc.</b>	<b>Racine Broadcasting Corp., Hotel Racine.</b>
<b>WOQ 1300 1000 Kansas City, Mo.</b>	<b>WRNY 1010 250 New York, N. Y.</b>
<b>Unity School of Christianity.</b>	<b>Marcus Loew Booking Agency.</b>
<b>WOR 710 6000 Newark, N. J.</b>	<b>WROL 1310 100 Knoxville, Tenn.</b>
<b>Bamberger Broadcasting Service, Inc.</b>	<b>Stuart Broadcasting Corp., 524 S. Gay.</b>
<b>WORC 1280 500 Worcester, Mass.</b>	<b>WRR 1280 500 Dallas, Texas.</b>
<b>Alfred F. Kleindienst, 60 Franklin St.</b>	<b>City of Dallas, Hilton Hotel.</b>
<b>WORK 1000 1080 York, Pa.</b>	<b>WRUF 830 5000 Gainesville, Fla.</b>
<b>York Broadcasting Co., 15 S. Beaver St.</b>	<b>State University.</b>
<b>WOS 630 500 Jefferson City, Mo.</b>	<b>WRVA 1110 5000 Richmond, Va.</b>
<b>State Highway Control, Capitol Bldg.</b>	<b>Larus &amp; Bro. Co., Inc., 22nd and Gary St.</b>
<b>WOSU 670 750 Columbus, Ohio.</b>	<b>WSAI 1330 1000 Cincinnati, Ohio.</b>
<b>Ohio State University.</b>	<b>Crosley Radio Corp., 1329 Arkington.</b>
<b>WOV 1130 1000 New York, N. Y.</b>	<b>WSAJ 1310 100 Grove City, Pa.</b>
<b>International Broadcasting Corp.</b>	<b>Grove City College.</b>
<b>WOW 590 1000 Omaha, Neb.</b>	<b>WSAN 1440 250 Allentown, Pa.</b>
<b>Woodmen of the World, 4th and Farnam</b>	<b>WSAN, Inc., 39 10th St.</b>
<b>WOWO 1160 10000 Fort Wayne, Ind.</b>	<b>WSAR 1450 250 Fall River, Mass.</b>
<b>Main Auto Supply Co., 213 W. Main.</b>	<b>Doughty &amp; Welch Electric Co., Inc.</b>
<b>WPAD 1420 100 Paducah, Ky.</b>	<b>WSAZ 1190 1000 Huntington, W. Va.</b>
<b>Paducah Broadcasting Co., Inc.</b>	<b>WSAZ, Inc., 929½ 4th Ave.</b>
<b>WPAP 1010 250 New York, N. Y.</b>	<b>WSB 740 50000 Atlanta, Ga.</b>
<b>Marcus Loew Booking Agency.</b>	<b>Atlanta Journal, 7 N. Forsyth St.</b>
<b>WPEN 1500 100 Philadelphia, Pa.</b>	<b>WSBC 1210 100 Chicago, Ill.</b>
<b>William Penn Broadcasting Co.</b>	<b>Gene T. Dyer, 1258 S. Michigan Ave.</b>
<b>WPFB 1370 100 Hattiesburg, Miss.</b>	<b>WSBT 1230 500 South Bend, Ind.</b>
<b>Hattiesburg Broadcasting Co., Box 530.</b>	<b>South Bend Tribune.</b>
<b>WPG 1100 5000 Atlantic City, N. J.</b>	<b>WSEN 1210 100 Columbus, Ohio.</b>
<b>Columbia Broadcasting System.</b>	<b>Columbus Broadcasting Corp., 144 S. High.</b>
<b>WPHR 1200 100 Petersburg, Va.</b>	<b>WSFA 1410 500 Montgomery, Ala.</b>
<b>WLBG, Inc., Medical Arts Bldg.</b>	<b>Montgomery Brdg. Co., Inc., Jeff. Dav. H'l.</b>
<b>WPRO 1210 100 Providence, R. I.</b>	<b>WSIX 1210 100 Springfield, Tenn.</b>
<b>Cherry &amp; Webb Broadcasting Co., 15 Chestnut.</b>	<b>638 Tire &amp; Vulcanizing Co.</b>
<b>WPTF 680 5000 Raleigh, N. C.</b>	<b>WSJS 1310 100 Winston-Salem, N. C.</b>
<b>Durham Life Insurance Co.</b>	<b>Winston-Salem Journal Co., 416 N. Marshall.</b>
<b>WQAM 660 1000 Miami, Fla.</b>	<b>WSM 650 50000 Nashville, Tenn.</b>
<b>Miami Broadcasting Co., Inc., 327 N. E. 1st Ave.</b>	<b>National Life &amp; Accident Insurance Co.</b>
<b>WQAN 880 250 Scranton, Pa.</b>	<b>WSMB 1320 500 New Orleans, La.</b>
<b>Scranton Times, 149 Penn Ave.</b>	<b>WSMB, Inc., Maison Blanche Bldg.</b>
<b>WQAO 1010 250 New York, N. Y.</b>	<b>WSMK 1380 200 Dayton, Ohio.</b>
<b>Marcus Loew Booking Agency.</b>	<b>S. M. Krohn, Jr., 4th and Main St.</b>
<b>WQBC 1380 500 Vicksburg, Miss.</b>	<b>WSOC 1210 180 Charlotte, N. C.</b>
<b>Delta Broadcasting Co., Hotel Vicksburg.</b>	<b>WSOC, Inc., Box 730.</b>
<b>WQDM 1370 100 St. Albans, Vt.</b>	<b>WSPA 1420 100 Spartanburg, S. C.</b>
<b>A. J. St. Antoine and E. J. Regan.</b>	<b>Virgil V. Evans, Ravenel and Avant St.</b>
<b>WQDX 1210 100 Thomasville, Ga.</b>	<b>WSPD 1340 1000 Toledo, Ohio.</b>
<b>Stevens Luke, 135 E. Jackson St.</b>	<b>Toledo Broadcasting Co., 505 Jefferson</b>
<b>WRAK 1370 100 Williamsport, Pa.</b>	<b>WSUI 880 500 Iowa City, Iowa.</b>
<b>WRAK, Inc., 244 W. 4th St.</b>	<b>State University of Iowa.</b>
<b>WRAM 1370 100 Wilmington, N. C.</b>	<b>WSUN 620 1000 St. Petersburg, Fla.</b>
<b>Wilmington Radio Assn., Princess St.</b>	<b>Florida Westcoast Broadcasting Co., Inc.</b>
<b>WRAW 1310 100 Reading, Pa.</b>	<b>WSVS 1370 50 Buffalo, N. Y.</b>
<b>Reading Broadcasting Co., 533 Penn St.</b>	<b>Seneca Vocational High School.</b>

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<b>WSYB</b> 1500 100 Rutland, Vt. Philip Weiss Music Co., 80 West St.	<b>YEC</b> 1000 50 Toluca, D. F. Jesus R. Benavides.
<b>WSYR</b> 570 250 Syracuse, N. Y. Central New York Broadcasting Corp.	<b>YED</b> 1155 500 Guadalajara, Jal. Radiofonografica de Guadalajara, S. A.
<b>WTAD</b> 1440 500 Quincy, Ill. Illinois Broadcasting Corp., State and 6th.	<b>YEF</b> 735 150000 Villa Acuna, Coah. Compania Radiodifusora de Acuna, S. A.
<b>WTAQ</b> 580 250 Worcester, Mass. Worcester Telegram Publishing Co.	<b>YEFA</b> 1250 500 Mexico City, D. F. Eduardo Limon Segui.
<b>WTAM</b> 1070 50000 Cleveland, Ohio. National Broadcasting Co., Inc.	<b>YEFB</b> 1315 100 Monterrey, N. L. Jesus Quintanilla.
<b>WTAQ</b> 1330 1000 Eau Claire, Wis. Gillette Rubber Co., Hotel Eau Claire.	<b>YEFK</b> 1050 100 Merida, Yuc. J. Molina Font.
<b>WTAR</b> 780 500 Norfolk, Va. WTAR Radio Corp., Wainwright Bldg.	<b>YKFD</b> 757 5000 Tijuana, B. C. Goodwill Broadcasting Co. (Box 1441 San Diego)
<b>WTAW</b> 1120 500 College Station, Texas. Agricultural and Mechanical College.	<b>YKFE</b> 1000 100 Laredo, Tams. Rafael T. Carranza.
<b>WTAX</b> 1210 100 Springfield, Ill. WTAX, Inc., 416 E. Capitol Ave.	<b>YKFG</b> 1085 500 Mexico City, D. F. Ricardo Gonzales Montero, Tepic 48
<b>WTBO</b> 1420 100 Cumberland, Md. Associated Broadcasting Corp., Box 794.	<b>YKFI</b> 1260 250 Chihuahua, Chih. Feliciano Lopez Isles, Ap. 157.
<b>WTEL</b> 1310 100 Philadelphia, Pa. Foulkrod Radio Engineering Co., Inc.	<b>YKFJ</b> 1000 100 Monterrey, N. L. R. Junco de la Vega.
<b>WTFI</b> 1450 500 Athens, Ga. Liberty Broadcasting Co., Costa Bldg.	<b>YKFO</b> 940 5000 Mexico City, D. F. Partido Nacional Revolucionario.
<b>WTIC</b> 1060 50000 Hartford, Conn. Travelers Broadcasting Service Corp.	<b>YKFS</b> 1000 40 Queretaro, Qro. Salvador Sanchez.
<b>WTJS</b> 1310 100 Jackson, Tenn. Sun Publishing Co., Sun Bldg.	<b>YKFW</b> 1370 100 Juarez, Chth. J. Onofre Meza.
<b>WTMJ</b> 620 1000 Milwaukee, Wis. The Journal Co., 333 W. State St.	<b>YKFW</b> 1280 70 Tampico, Tams. J. Expedito Martinez.
<b>WTNJ</b> 1280 500 Trenton, N. J. Trenton Broadcasting Co., Stacy Trent Hotel.	<b>YKFZ</b> 1370 100 Mexico City, D. F. Jose Onofre Meza.
<b>WTOC</b> 1260 500 Savannah, Ga. Savannah Broadcasting Co., Inc., DeSoto Hotel.	<b>YKEG</b> 1075 500 Mexico City, D. F. Ricardo Gonzales Montero.
<b>WTRC</b> 1318 50 Elkhart, Ind. Truth Radio Corp., Hotel Elkhart.	<b>YKEH</b> 1132 250 Monterrey, N. L. Tarnava y Cia, P. Mier 215.
<b>WWAE</b> 1200 100 Hammond, Ind. Hammond Calumet Broadcasting Corp.	<b>YKEI</b> 1310 250 Morelia, Mich. Carlos Gutierrez M.
<b>WWJ</b> 920 1000 Detroit, Mich. Evening News Assn., 616 Lafayette Blvd.	<b>YKEJ</b> 1015 500 Juarez, Chih. Juan G. Buttner and Leo Allande.
<b>WWL</b> 850 10000 New Orleans, La. Loyola University, Roosevelt Hotel.	<b>YKEK</b> 990 100 Mexico City, D. F. Arturo Martinez, Jalapa No. 51
<b>WWNC</b> 570 1000 Asheville, N. C. Citizen Broadcasting Co., Inc., Flatiron Bldg.	<b>YKEL</b> 1000 40 Saltillo, Coah. Antonio Garza Castro.
<b>WWRL</b> 1500 100 Woodside, N. Y. Long Island Broadcasting Corp.	<b>YKEN</b> 711 1000 Mexico City, D. F. Cerveceria Modelo S. A.
<b>WWSW</b> 1500 100 Pittsburgh, Pa. Walker & Downing Radio Corp.	<b>YKENT</b> 1115 150000 Nuevo Laredo, Tams. Cia Industrial Universal S. A.
<b>WWVA</b> 1160 5000 Wheeling, W. Va. West Virginia Broadcasting Corp.	<b>YKEO</b> 940 5000 Mexico City, D. F. Partido Nacional Revolucionario.
<b>WXYZ</b> 1240 1000 Detroit, Mich. Kunsky-Trendle Broadcasting Corp.	<b>YKEP</b> 780 500 Mexico City, D. F. Cia Difusora de Mexico S. A.
<b>XEA</b> 1000 250 Guadalajara, Jal. Alberto Palos Souza.	<b>YKEPN</b> 585 75000 Piedras Negras, Coah. Piedras Negras Broadcasting Co.
<b>XEAB</b> 1450 7.5 Nuevo Laredo, Tams. Horacio Mattei A. y Humberto Garcia.	<b>YKEQ</b> 1330 500 Mexico City, D. F.
<b>XEAC</b> 1295 100 San Luis Potosi, S. L. P. Francisco de P. Cabrera.	<b>YKER</b> 735 150000 Villa Acuna, Coah. Compania Radiodifusora de Acuna, S. A.
<b>XEAD</b> 875 250 Mexico City, D. F. Julio Zetina Osorio.	<b>YKES</b> 1020 250 Tampico, Tams. Fernando Sada, Hotel Inglaterra.
<b>XEAE</b> 980 890 Tijuana, B. C. Adolfo Labastida Jr. Apt. 10	<b>YKET</b> 690 500 Monterrey, N. L. Cadena Radiodifusora Mexicana, S. A.
<b>XEAI</b> 1090 100 Mexico City, D. F. Carlos Gonzalez Caballero.	<b>YKETA</b> 1180 250 Mexico City, D. F. Manuel Espanozo Tagle.
<b>XEAN</b> 750 5000 Juarez, Chih. Radio Difusora Nacional S. A.	<b>YKETB</b> 1380 125 Torreon, Coah. Jose A. Berumen.
<b>XEAO</b> 560 100 Mexicali, B. C. Luis L. Castro.	<b>YKETH</b> 860 100 Puebla, Pue. Ramon Huerta G.
<b>XEAW</b> 965 10000 Reynosa, Tams. Internacional Broadcasting Co., S. A.	<b>YKETR</b> 610 1000 Mexico City, D. F. Cia Difusora Mexicana S. A.
<b>XEB</b> 1030 10000 Mexico City, D. F. El Buen Tono, S. A., Buen Tono No. 6.	<b>YKETU</b> 890 100 Pachuca, Hdgo. Rodrigo Manriquez.

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<b>XETW</b>	<b>830</b>	<b>500</b>	<b>Mexico City, D. F.</b> Rafael M. Pena. Gante 4, 3er piso
<b>XEU</b>	<b>1010</b>	<b>100</b>	<b>Veracruz, Ver.</b> Fernando Pazos Sosa.
<b>XEW</b>	<b>910</b>	<b>5000</b>	<b>Mexico City, D. F.</b> Cadena Radiodifusora Mexicana S. A.
<b>XEX</b>	<b>1210</b>	<b>500</b>	<b>Mexico City, D. F.</b> "Excelsior" Cia Editorial S. A.
<b>XEY</b>	<b>546.8</b>	<b>10</b>	<b>Merida, Yuc.</b> Partido Socialista del Surest.
<b>XEYZ</b>	<b>780</b>	<b>10000</b>	<b>Mexico City, D. F.</b> Radiodifusora Continental S. A.
<b>XEZ</b>	<b>630</b>	<b>500</b>	<b>Merida, Yuc.</b>
<b>XFB</b>	<b>1290</b>	<b>1000</b>	<b>Jalapa, Ver.</b> Gobierno del Estado de Veracruz.
<b>XFC</b>	<b>805</b>	<b>350</b>	<b>Aguascalientes, Ags.</b> Gobierno del Estado de Aguascalientes.
<b>XFG</b>	<b>638.3</b>	<b>2000</b>	<b>Mexico City, D. F.</b> Secretaria de Guerra y Marina.
<b>XFO</b>	<b>940</b>	<b>5000</b>	<b>Mexico City, D. F.</b> National Revolucionario Party.
<b>XFX</b>	<b>840</b>	<b>500</b>	<b>Mexico City, D. F.</b> Secretaria de Educacion Publica.

<b>YV1BC</b>	<b>960</b>	<b>6000</b>	<b>Caracas, Venez.</b> Cia Ama Alamacen Americana.
<b>YV2BC</b>	<b>882</b>	<b>100</b>	<b>Caracas, Venez.</b>
<b>YV3BC</b>	<b>1200</b>	<b>1000</b>	<b>Caracas, Venez.</b> Degwitz & Siblez.
<b>10-AK</b>	<b>1200</b>	<b>15</b>	<b>Stratford, Ont.</b> M. I. Higgins, 151 Ontario St.
<b>10-AT</b>	<b>1155</b>	<b>25</b>	<b>Trail, B. C.</b> Trail Amateur Radio Assn.
<b>10-BI</b>	<b>1200</b>	<b>25</b>	<b>Prince Albert, Sask.</b> Prince Albert Radio Club.
<b>10-BP</b>	<b>1200</b>	<b>15</b>	<b>Wingham, Ont.</b> W. T. Cruickshank.
<b>10-BQ</b>	<b>1200</b>	<b>5</b>	<b>Brantford, Ont.</b> Tom and Harold Brown.
<b>10-BU</b>	<b>1200</b>	<b>15</b>	<b>Canora, Sask.</b> Canora Radio Assn.

## AIRPORT RADIO STATIONS OF THE U. S.

<b>KBTY</b>	Butte, Mont., 20-21-22-23-38-41
<b>KEU</b>	Burbank, Calif., 20-21-22-23-38-41
<b>KFM</b>	Sacramento, Calif., 20-21-22-23-38-41
<b>KFO</b>	Oakland, Calif., 5-6-20-21-22-23-30-38-41-43-44
<b>KGE</b>	Medford, Ore., 20-21-22-23-38-41
<b>KGJW</b>	Brownsville, Tex., 9-15-32-35-42-47-48-56-58
<b>KGQW</b>	Juneau, Alaska, 8
<b>KGQX</b>	Seattle, Wash., 8
<b>KGQZ</b>	San Diego, Calif., 20-21-22-23-38-41
<b>KGSB</b>	San Bruno, Calif., 11-12-15-16-29-37-49-56
<b>KGSC</b>	Oklahoma City, Okla., 11-12-15-16-26-29-37-49-56
<b>KGSE</b>	Iowa City, Iowa, 19
<b>KGSG</b>	Oklahoma City, Okla., 19
<b>KGSH</b>	Portable, 19
<b>KGSM</b>	Salina, Kans., 13
<b>KGSP</b>	Denver, Colo., 11-12-15-16-29-37-49-56
<b>KGSR</b>	Pueblo, Colo., 11-12-15-16-29-37-49-56
<b>KGSS</b>	Denver, Colo., 13
<b>KGSV</b>	Wichita Falls, Tex., 11-12-15-16-29-37-49-56
<b>KGT</b>	Fresno, Calif., 20-21-22-23-38-41
<b>KGTA</b>	Winslow, Ariz., 11-12-15-16-29-37-49-56
<b>KGTB</b>	Texarkana, Ark., 19
<b>KGTD</b>	Wichita, Kans., 15-16-37
<b>KGTH</b>	Salt Lake City, 11-12-15-16-29-51-56
<b>KGTI</b>	Las Vegas, Nev., 11-12-15-16-29-37-49-56
<b>KGTL</b>	Kingman, Ariz., 11-12-15-16-29-37-49-56
<b>KGTO</b>	Springfield, Mo., 11-12-17-18-29-36-50-56
<b>KGTR</b>	Robertson, Mo., 11-12-17-18-29-36-50-56
<b>KGTV</b>	Lake Charles, La., 19
<b>KGTV</b>	Beaumont, Tex., 19-28-40
<b>KGTV</b>	Burbank, Calif., 19
<b>KGTX</b>	Pocatello, Idaho, 20-21-22-23-38-41
<b>KGTZ</b>	Spokane, Wash., 20-21-22-23-38-41
<b>KGUA</b>	El Paso, Texas, 2-3-19-31-45-46
<b>KGUB</b>	Houston, Texas, 2-3-19-31-45-46
<b>KGUC</b>	Fort Worth, Tex., 2-28-39-40-45-46-58
<b>KGUD</b>	San Antonio, Tex., 2-3-19-31-45-46
<b>KGUE</b>	Brownsville, Tex., 1-4-19-27-33-52-53-54-56
<b>KGUF</b>	Dallas, Tex., 2-3-19-28-31-39-40-45-46
<b>KGUG</b>	Big Springs, Tex., 2-3-19-28-31-40-45-46
<b>KGUH</b>	Waco, Tex., 2-3-19-31-45-46
<b>KGUK</b>	Shreveport, La., 19-28-40
<b>KGUL</b>	Abilene, Tex., 19-28-40
<b>KGUM</b>	Frijole, Tex., 2-3-28-31-40-45-46
<b>KGUN</b>	Douglas, Ariz., 2-3-19-28-31-39-40-45-46
<b>KGUO</b>	Tucson, Ariz., 19-28-40

<b>KGUP</b>	Phoenix, Ariz., 2-3-19-28-31-40-45-46
<b>KGUQ</b>	Indio, Calif., 2-3-19-28-31-40-45-46
<b>KGUR</b>	Burbank, Calif., 2-3-19-28-31-40-45-46
<b>KGUS</b>	Blythe, Calif., 2-3-31-45-46
<b>KGUT</b>	Robertson, Mo., 3-19-24-25-26-27-28-31-39-40
<b>KGUU</b>	Little Rock, Ark., 2-3-19-28-31-40
<b>KGUV</b>	Oakland, Calif., 19
<b>KGUZ</b>	Ponca City, Okla., 20-22-23-38
<b>KIFM</b>	Fairbanks, Alaska, 7-17-30-55-56
<b>KJE</b>	Reno, Nev., 5-6-20-21-22-23-30-38-41-43-44
<b>KKO</b>	Elko, Nev., 20-21-22-23-38-41
<b>KMP</b>	Omaha, Neb., 5-6-20-21-22-23-30-38-41-43-44
<b>KMR</b>	No. Platte, Neb., 20-21-22-23-38-41
<b>KNAS</b>	Kansas City, Mo., 20-21-23-38-41
<b>KNAT</b>	Dallas, Tex., 20-21-22-23-38-41
<b>KNAU</b>	Tulsa, Okla., 20-21-22-23-38-41
<b>KNWA</b>	St. Paul, Minn., 10-14-34
<b>KNWB</b>	Fargo, N. D., 10-14-34
<b>KNWC</b>	Pemba, N. D., 10-14-34
<b>KOE</b>	Cheyenne, Wyo., 5-6-20-21-22-23-30-38-41-43-44
<b>KQC</b>	Rock Springs, Wyo., 20-21-22-23-38-41
<b>KQD</b>	Salt Lake City, 5-6-20-21-22-23-30-38-41-43-44
<b>KQM</b>	Des Moines, Iowa, 20-21-22-23-38-41
<b>KQQ</b>	Iowa City, Iowa, 20-21-22-23-38-41
<b>KQX</b>	Bakersfield, Calif., 20-21-22-23-38-41
<b>KRA</b>	Boise, Idaho, 20-21-22-23-38-41
<b>KRD</b>	Pasco, Wash., 20-21-22-23-38-41
<b>KRF</b>	Lincoln, Neb., 20-21-22-23-38-41
<b>KSI</b>	Los Angeles, Calif., 11-12-15-16-29-36-49-56
<b>KST</b>	Kansas City, Mo., 11-12-15-16-17-29-36-37-49-50-56
<b>KSV</b>	Amarillo, Tex., 11-12-15-16-29-36-49-56
<b>KSX</b>	Albuquerque, N. M., 11-15-16-29-37-49-56-57
<b>KSY</b>	Tulsa, Okla., 15-16-17-18-26-36-37-49-56-57
<b>KTU</b>	Redding, Calif., 20-21-22-23-41
<b>KVO</b>	Portland, Ore., 20-21-22-23-38-41
<b>KZJ</b>	Seattle, Wash., 20-21-22-23-38-41
<b>WAFA</b>	Indianapolis, Ind., 17-18-37-50
<b>WAEB</b>	Columbus, Ohio, 11-12-17-18-27-29-36-37-50-56-57
<b>WAFC</b>	Pittsburgh, Pa., 11-12-17-18-29-36-50-56
<b>WAED</b>	Middletown, Pa., 11-12-17-18-27-29-36-50-56
<b>WAEE</b>	Camden, N. J., 11-12-17-18-29-36-50-56
<b>WAEF</b>	Newark, N. J., 11-12-17-18-29-36-50-56
<b>WAEG</b>	Cresson, Pa., 11-12-17-18-29-37-50-56
<b>WAEH</b>	Milwaukee, Wis., 10-14-34

WAEJ Springfield, Ill., 2-3-19-28-31-40  
 WAEK Mobile, Ala., 19-28-40  
 WAEL Toledo, Ohio, .....  
 WAEM Moline, Ill., .....  
 WAEN Evansville, Ind., 19  
 WAEO Chicago, Ill., 13-18  
 WAEP Portable, 19  
 WAEQ Elmira, N. Y., 27  
 WEEA Atlanta, Ga., 15-16-32-42-48  
 WEEB Baltimore, Md., 15-16-32-42-48  
 WEEC Charleston, S. C., 15-16-32-42-48  
 WEEF Spartansburg, S. C., 15-16-32-42-48  
 WEEG Greensboro, N. C., 15-16-32-42-48  
 WEEH Moltke, Ga., 15-16-32-42-48  
 WEEI Detroit, Mich., .....  
 WEEJ Jacksonville, Fla., 15-16-32-42-48  
 WEEW Miami, Fla., 15-16-32-42-48  
 WEEW Linden, N. J., 15-16-32-42-48  
 WEEO Orlando, Fla., 15-16-32-42-48  
 WEEQ Atlantic City, N. J., 15-16-32-42-48  
 WEEW Richmond, Va., 15-16-32-42-48  
 WGDW Atlantic City, N. J., 9-15-42  
 WKDL Miami, Fla., 9-15-32-34-35-42-47-48-49-56-58  
 WMDU San Juan, P. R., 9-15-16-32-35-42-47-48-56-58  
 WNAN Angola, Ind., 20  
 WNAK Litchfield, Ohio, 20

WNAL Brooksville, Pa., 20  
 WNAM Lewisburg, Pa., 20  
 WNAO Plainfield, N. J., 20  
 WNAT Orlando Twrns., Ill., 20-21-22-23-38-41  
 WNAU Moline, Ill., 20-21-22-23-38-41  
 WOA New York, N. Y., 15  
 WQDP Atlanta, Ga., 2-3-19-28-31-40-45-46  
 WQDQ New Orleans, La., 2-3-19-31-45-46  
 WQDU Aurora, Ill., 5-6-20-21-22-23-30-38-41-43-44  
 WRDN Norfolk, Va., 9-15-42  
 WDSB Jackson, Miss., 2-3-19-28-31-40-45-46  
 WSDC Newark, N. J., 19-28-39  
 WSDD Boston, Mass., 19-24-39  
 WSDE Birmingham, Ala., 19-28-40  
 WSDF Louisville, Ky., 2-3-19-25-26-27-28-31-40-45-46  
 WSDG Chicago, Ill., 2-3-25-26-27-28-31-40-45-46  
 WSDH Nashville, Tenn., 2-3-19-25-26-27-28-31-40-45-46  
 WSDI Cincinnati, Ohio, 2-3-19-25-26-27-28-31-40-45-46  
 WSDK Memphis, Tenn., 2-3-19-28-31-40  
 WSDL Duluth, Minn., 10-14-34  
 WSDM Albany, N. Y., 2-3-19-28-31-40  
 WSDO Buffalo, N. Y., 2-3-19-31-45-46  
 WSDP Port Columbus, Ohio, 19  
 WSDQ Berea, Ohio, 2-3-19-28-31-40  
 WSDR Madison, Wis., 10-14-34  
 WSDZ Indianapolis, Ind., 2-3-19-28-31-40

	Megs.	Meters	Megs.	Meters	Megs.	Meters	Megs.	Meters
1.	2.316	129.45	16.	3.076	97.47	31.	4.140	72.42
2.	2.326	128.89	17.	3.082	97.28	32.	4.164	72.00
3.	2.344	127.91	18.	3.088	97.09	33.	4.740	63.25
4.	2.356	127.25	19.	3.128	95.86	34.	5.375	55.78
5.	2.482	120.79	20.	3.160	94.87	35.	5.405	55.47
6.	2.506	119.64	21.	3.166	94.69	36.	5.510	54.41
7.	2.648	113.22	22.	3.172	94.52	37.	5.540	54.12
8.	2.850	113.13	23.	3.178	94.34	38.	5.570	53.82
9.	2.662	112.62	24.	3.238	92.59	39.	5.600	53.53
10.	2.680	111.87	25.	3.452	86.85	40.	5.630	53.25
11.	2.722	110.14	26.	3.460	86.65	41.	5.660	52.97
12.	2.734	109.67	27.	3.468	86.45	42.	5.690	52.69
13.	2.906	103.13	28.	3.484	86.05	43.	6.215	48.24
14.	3.004	99.79	29.	4.108	72.98	44.	6.230	48.12
15.	3.070	97.66	30.	4.124	72.70			

# Let's CLEAN Up the SET

(Continued from page 24)

iceman are required in order properly to retune a complicated receiver. Inexperienced handling of trimmer condensers frequently results in an entirely new set of dial readings because of the increased or decreased capacity of the tuning gang-unit.

### Make Careful Inspection

Examine the wires beneath the chassis. Separate any grid wires that have fallen too close to adjacent wires. Test the fastenings of the shield cams and, if loose, remove and clean the contacting surfaces with emery-cloth before replacing tightly and firmly. Poor shield contacts may cause instability, poor tuning, noise, fading and sudden oscillations. Bend the socket springs so

they will make good contact with the prongs of the tubes. A little brightening with emery-cloth will be time well spent. A little vaseline on some tuning units and dials, such as the Philco, will stop jerky or clicking tuning. The entire dial mechanism should be overhauled and oiled, but take care not to move the dial and thus change the dial readings.

### The Volume Control

The volume control, if wire wound, can be polished by rubbing lightly with emery-cloth. If worn or noisy it should be replaced with a new one ordered from the manufacturer, but be careful to replace the wires in exactly the same positions. Clean the contacts of the off-on and local-distance switches, and such other short-wave switches as may be on the chassis.

Test all the tubes. A new rectifier

often works wonders. The power tubes also lose their tone and volume qualities before the other tubes in the set. Clean all the old tubes and scrape the prong contacts to a bright finish. RADEX has presented considerable data about replacing old tubes with the newer types.

Check the ground and antenna wires. Shielding of the down-lead will improve reception, as explained in the October, 1933, issue of RADEX. Filtering devices will remove most power line noises, as shown in the April, 1933, issue. And headphones, for perfect DX work, may be attached, as indicated in the February, 1933, number of RADEX.

## The BEGINNERS' STORY

(Continued from page 7)

The wire through which electricity flows is a *conductor*. Copper is the best commercial material, but silver is the most nearly perfect. There are materials that prevent the flow of an electric current, such as glass, hard-rubber, bakelite, etc. They are known as *insulators*. Other materials retard the flow of electricity to various extents, and they are known as *resistances*. The unit of resistance is the *ohm*. The unit of conductivity is the opposite of resistance—the *mho*. 1,000,000 ohms is called a *megohm*.

The ampere, volt and ohm work together in all electrical and radio circuits. Their relationship is interesting and of vast importance in making circuit calculations. Perhaps some of our readers will wish to look up *Ohm's Law* in text books and make a more complete study of its many combinations in radio. *Milli* means one-thousandth part of some unit, such as *milli-ampere*, which is one-thousandth of an ampere of current. *Micro* is one-millionth part of an unit; *micro-volt* being one-millionth of a volt.

(Next month we shall see how al-

ternating currents may be used to transfer electric currents from one circuit to another; how radio and audio-currents are amplified; how magnetism and electricity are inseparable; and how transformers work.)

### Queries

1. What is audio frequency? Radio frequency?
2. What is direct current? Alternating current?
3. What is 60-cycle A. C.?
4. What is a kilocycle? A megacycle?
5. Do positive and negative electricity attract or repel each other?
6. What is the effect of connecting batteries in series? In parallel?
7. What is the unit of measure of electrical pressure? Of quantity? Of consumption? Of resistance?
8. What is the frequency-of-vibration limit of the human ear?
9. What is the relation between frequency and length of wave?
10. What is a carrier wave and what function has it?

### STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., REQUIRED BY THE ACT OF CONGRESS OF AUGUST 24, 1912

OF RADIO INDEX (RADEX), published Monthly except July and August, at Mount Morris, Illinois, for October 1, 1933.

State of Ohio }  
County of Cuyahoga }<sup>ss.</sup>

Before me, a Notary Public, in and for the State and county aforesaid, personally appeared Fred C. Butler, who, having been duly sworn according to law, deposes and says that he is the President of The Radex Press, Inc., publishers of RADIO INDEX and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management (and if a daily paper, the circulation), etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, embodied in section 411. Postal Laws and Regulations, printed on the reverse of this form, to wit:

1. That the names and addresses of the publisher, editor, managing editor, and business managers are: Publisher, Fred C. Butler, Hanna Building, Cleveland, Ohio; Editor, Fred C. Butler, Hanna Building, Cleveland, Ohio; Managing Editor, none; Business Managers, none.

2. That the owner is: (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding one per cent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a firm, company, or other unincorporated concern, its name and address, as well as those of each individual member, must be given.) The Radex Press, Inc., Hanna Building, Cleveland, Ohio; Fred C. Butler, Hanna Building, Cleveland, Ohio.

3. That the known bondholders, mortgagees, and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: (If there are none, so state.) None.



4. That the two paragraphs next above, giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustee, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by him.

FRED C. BUTLER.

Sworn to and subscribed before me this 29th day of September, 1933.

EDITH C. PHALEN, Notary Public.

(My commission expires May 11, 1935.)

## Over the

### EDITOR'S DESK

(Continued from page 11)

of razzberries. From the interesting little magazine "Tune In," the official organ of the New Zealand Radio Association, we quote the record of a member of that Association living in Lyttelton, N. Z.,—"my radio experience with a one-valve receiver at Auckland. During the sixteen months I was DXing, I compiled a log of

about 90 stations. Often my efforts were not appreciated by radio acquaintances, many of whom openly expressed their disbelief that I had heard stations in Hawaii, U. S., Japan and the Philippine Islands. I have proof enough to satisfy the most disbelieving critics, for my verifications include KDYL, KFOX, KGA, KROW, WTAM, JOAK and JOCK. I used phones, of course." This report from the other side indicates the amazing things that can happen in radio.

## The FREQUENCY CHECKS

(Continued from page 4)

1500 kcs.

KGFI	Corpus Christi, Tex., Fri 5:10
KGFK	Moorhead, Minn., Fri 5:50
KGKB	Tyler, Tex., Fri 5:30
KGKY	Scottsbluff, Neb., Wed 4:00
KNOW	Austin, Tex., Thur 5:40
KPJM	Prescott, Ariz., Tue 4:10
KPQ	Wenatchee, Wash., Mon 4:00
KXO	El Centro, Calif., Tue 4:30
WHBF	Kosciusko, Miss., Tue 3:30
WKBV	Connersville, Ind., Thur 4:50
WKHZ	Ludington, Mich., Thur 4:30
WKBU	LaGrange, Ga., Tue 2:40
WMBQ	Brooklyn, N. Y., Sat 2:40
WMIL	Brooklyn, N. Y., Mon 2:00
WMPC	Lapeer, Mich., Thur 4:10
WNBF	Binghamton, N. Y., Mon 2:20
WRDW	Augusta, Ga., Thur 3:00
WSYB	Rutland, Vt., Mon 3:10
WWRL	Woodside, N. Y., Sat 2:20
WWSW	Pittsburgh, Pa., Mon 2:40

## From Our Own LOUD SPEAKER

"I have found it to be the most complete, accurate and reliable radio publication I have ever known. At times I just can't wait for the next copy."—W. T. R. Morris, Jr., 3219 Garland Ave., Richmond, Va.

"Just a line to tell you how much I like RADEX. I think it is the best radio magazine on the market, bar none. I absolutely could not do without it."—B. Hook, 315 Delatre St., Woodstock, Ontario.

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—Leslie Scourfield, 299 Tunis Street, Ingersoll, Ont.

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—A. Mervyn Branks, Winton, Southland, New Zealand.

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"Sorry I did not get RADEX years ago; it is OK; nothing like it."—Ker R. Graham, P. O. Box 61, Gisborne, New Zealand.

"I've been a reader for several years. I find it indispensable."—Raymond M. Bell, 55 Wilson St., Carlisle, Pa.

## STATION CHANGES

During October

### FREQUENCIES

925	CMCD	Havana, Cuba, from 1140
1010	CHML	Hamilton, Ont., from 890
1030	CFNB	Fredericton, N. B., from 1210
1120	CKOC	Hamilton, Ont., from 1010
1125	CMHJ	Cienfuegos, Cuba, from 1190
1140	CMBW	Havana, Cuba, from 925
1210	CFBO	St. John, N. B., from 1030

### POWER

1030	CKNC	Toronto, Ont., 500 to 100
1200	10-BP	Wingham, Ont., 25 to 15
1200	10-BQ	Branford, Ont., 15 to 5
1210	CFBO	St. John, N. B., 500 to 100
1210	WGNY	Chester, N. Y., 500 to 100
1290	XFB	Jalapa, Ver., 500 to 1000
1330	WDRC	Hartford, Conn., 500 to 1000

### DELETED

630	XETF	Veracruz, Ver.
1200	KPWF	St. Louis, Mo.
1350	WCDA	New York, N. Y.
1350	WMSG	New York, N. Y.

### LOCATION

1210	WSOC	Charlotte, N. C., from Gastonia, N. C.
1310	WKBB	East Dubuque, Ill., from Joliet, Ill.
1420	WBO	Baton Rouge, La., from New Orleans, La.

### NEW

910	CHCM	LaPrairie, Que.
1085	XEFG	Mexico City, D. F.

### CALLS

1420	WNRA	Muscle Shoals, Ala., formerly WMED
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### OWNERS

850	KWKH	Shreveport, La., to International Broadcasting Corp.
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### CHAINS

1240	KTAT	Fort Worth, Texas, new CBS
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### PERMIT TO CHANGE LOCATION

1210	WKFI	Greenville to Greenville, Miss.
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## ELIMINATING NOISES

With each year's subscription to **RADEX** we will send free a copy of Tobe Deutschmann's 75-page book on "Radio Noises and Their Cure" provided 10 cents extra is sent for postage. Or we will give free one of those Radio Maps of the World with Time Converting Dial.

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<input type="checkbox"/> One Radio World Map and Time Converter.....	25c
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<input type="checkbox"/> Trial subscription, next five issues of RADEX.....	\$1.00
<input type="checkbox"/> One year's subscription to RADEX, 10 issues and World Map-Converter, free.....	1.75
<input type="checkbox"/> Two subscriptions to RADEX with one leatherette cover and Map-Converter, both free.....	3.50
<input type="checkbox"/> One two-year subscription with leatherette cover and Map-Converter, both free.....	3.50
<input type="checkbox"/> Leatherette Cover.....	.50

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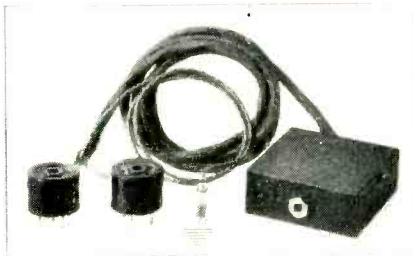
**\$5.50**

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**The Radex Press Inc.**

HANNA BUILDING  
CLEVELAND, OHIO

# The Perfect Phone Adapter for all Receivers



No Tubes to Remove and Replace. No Change in Wiring. Inserting the phone-plug in the jack in the little box automatically cuts out the speaker.

The adapter (or adapters) are placed under the power tube (or tubes, if in push-pull) and left in place. The little clamp goes to the ground. The box may be placed on top or in the back of set or screwed to the underside of the cabinet out of sight.

#### Made in Four Types:

Model A: One socket,  
Four holes.

Model B: Two sockets.  
Four holes.

Model C: One socket,  
Five holes.

Model D: Two sockets,  
Five holes.

*Models for one or two sockets and either six or seven holes made to order at same price.*

The use of the Perfect Phone Adapter does not change the load or interfere with use of speaker in any way. To reduce volume to comfortable level, signal is taken before it is amplified by power tubes, hence it is not recommended for three-tube sets. Otherwise fully guaranteed.

*Use headphones and hear those foreign and other distant stations that cannot be identified on the loud speaker. Use your radio without disturbing members of the family who have retired.*

Price of  
any Model  
Postpaid .....

**\$3<sup>95</sup>**

Complete with  
DX Phones and  
Plug .....

**\$6<sup>70</sup>**

## RADIO PARTS CO.

1401 Prospect Ave.

Cleveland, Ohio.