

THE SEPTEMBER 1933

# RADIO INDEX

THE ALL-WAVE RADIO MAGAZINE



25<sup>c</sup>

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in Canada

Monthly Tests of 300 Stations  
Sunday's Time on the Air  
Hourly Tuning Guide for Short Waves  
Roster of the DX Clubs  
The Midget All-Current Sets

No. 71

SEPTEMBER 1, 1933



# RADIO INDEX

Reg. U. S. Patent Office

FRED CLAYTON BUTLER

Editor and Publisher



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*Technical Editor*

PAGE TAYLOR  
*Short Wave Editor*

TENTH YEAR

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**ADDRESS ALL CORRESPONDENCE TO CLEVELAND OFFICE**

# SEPTEMBER DX CALENDAR

The following stations will be on the air at the times shown for the purpose of having their frequencies checked by the Federal Radio Commission. During these tests, the call letters will be announced every three minutes. These programs will be repeated on the first seven days of each month. Time is Eastern Standard.

## FRIDAY MORNING

Sept. 1st, Oct. 6th, Nov. 3rd, Dec. 1st, Jan. 5th

- 3:00-3:20—WJW, 1210, Akron, Ohio.
- KRMD, 1310, Shreveport, La.
- 3:10-3:30—WPAD, 1420, Paducah, Ky.
- KFXJ, 1200, Grand Junction, Colo.
- 3:20-3:40—WSEN, 1210, Columbus, Ohio.
- KFXR, 1310, Oklahoma City, Okla.
- 3:30-3:50—WELL, 1420, Battle Creek, Mich.
- KGEK, 1200, Yuma, Colo.
- 3:40-4:00—WALR, 1210, Zanesville, Ohio.
- KFPL, 1310, Dublin, Texas.
- 3:50-4:10—WMBC, 1420, Detroit, Mich.
- WCAT, 1200, Rapid City, S. D.
- 4:00-4:20—WPDF, 1310, Flint, Mich.
- KGCU, 1240, Mandan, N. D.
- 4:10-4:30—WFBF, 1200, Cincinnati, Ohio.
- KCRC, 1370, Enid, Okla.
- 4:20-4:40—WEXL, 1310, Royal Oak, Mich.
- KLPM, 1240, Minot, N. D.
- 4:30-4:50—WCLO, 1200, Janesville, Wis.
- KGFG, 1370, Oklahoma City, Okla.
- 4:40-5:00—WCLS, 1310, Joliet, Ill.
- KABC, 1420, San Antonio, Texas.
- 4:50-5:10—WJBL, 1200, Decatur, Ill.
- KPFJ, 1370, Fort Worth, Texas.
- 5:00-5:20—WJBK, 1370, Detroit, Mich.
- KWCR, 1420, Cedar Rapids, Iowa.
- 5:10-5:30—WIBU, 1210, Poynette, Wis.
- KGFI, 1500, Corpus Christi, Texas.
- 5:20-5:40—WHDF, 1370, Calumet, Mich.
- WLBK, 1420, Kansas City, Kans.
- 5:30-5:50—WCRW, 1210, Chicago, Ill.
- KGBK, 1500, Tyler, Texas.
- 5:40-6:00—WRJN, 1370, Racine, Wis.
- WMBH, 1420, Joplin, Mo.
- 5:50-6:10—WLAP, 1200, Louisville, Ky.
- KGFK, 1500, Moorhead, Minn.

## SATURDAY MORNING

Sept. 2nd, Oct. 7th, Nov. 4th, Dec. 2nd, Jan. 6th

- 2:00-2:20—WMAS, 1420, Springfield, Mass.
- 2:10-2:30—WJBI, 1210, Red Bank, N. J.
- 2:20-2:40—WWRL, 1500, Woodside, N. Y.
- 2:30-2:50—WGNV, 1210, Chester, N. Y.
- 2:40-3:00—WMBQ, 1500, Brooklyn, N. Y.
- 2:50-3:10—WGBB, 1210, Freeport, N. Y.
- 3:00-3:20—WOKO, 1430, Albany, N. Y.
- WJBC, 1200, LaSalle, Ill.
- KTRH, 1120, Houston, Texas.
- 3:10-3:30—WDEV\*, 550, Waterbury, Vt.
- WGL, 1370, Fort Wayne, Ind.
- KFPW, 1210, Fort Smith, Ark.
- 3:20-3:40—WNYC\*, 810, New York, N. Y.
- WWAE, 1200, Hammond, Ind.
- WTAW, 1120, College Station, Texas.
- 3:30-3:50—WOV\*, 1130, New York, N. Y.
- WLBC, 1310, Muncie, Ind.
- KASA, 1210, Elk City, Okla.
- 3:40-4:00—WINS\*, 1180, New York, N. Y.
- WFAM, 1200, South Bend, Ind.
- KWLC, 1270, Decatur, Iowa.
- 3:50-4:10—WCDA, WBNX, WMSG, 1350, New York City.
- WKZO, 590, Kalamazoo, Mich.
- KGNO, 1340, Dodge City, Kans.
- 4:00-4:20—WJAY, 610, Cleveland, Ohio.
- KGCA, 1270, Decatur, Iowa.
- 4:10-4:30—WAWZ, 1350, Xarephath, N. J.
- KFVS, 1210, Cape Girardeau, Mo.
- 4:20-4:40—KGHL, 950, Billings, Mont.
- 4:30-4:50—KDLE, 1210, Devils Lake, N. D.
- 4:40-5:00—KPRC, 920, Houston, Texas.

- 4:50-5:10—KFXJ, 1200, Grand Junction, Colo.
  - 5:00-5:20—KFDM, 560, Beaumont, Texas.
  - 5:10-5:30—KGCR, 1210, Watertown, S. D.
  - 5:20-5:40—WEW, 760, St. Louis, Mo.
  - 5:30-5:50—WKBH, 1380, LaCrosse, Wis.
  - 5:40-6:00—WSUI, 880, Iowa City, Iowa.
  - 5:50-6:10—KGGM, 1230, Albuquerque, N. M.
- \*September only.

## MONDAY MORNING

Sept. 3rd, Oct. 1st, Nov. 5th, Dec. 3rd, Jan. 7th

- 3:00-3:20—KLCN, 1290, Blytheville, Ark.
- 3:10-3:30—KTBS, 1450, Shreveport, La.
- 3:30-3:50—KXYZ, 1440 Houston, Texas.
- 3:40-4:00—KTSA, 1290, San Antonio, Texas.
- 3:50-4:10—KOCW, 1400, Tulsa, Okla.
- 4:00-4:20—KWWG, 1260, Brownsville, Texas.
- 4:10-4:30—KGDY, 1340, Huron, S. D.
- 4:20-4:40—KRGV, 1260, Harlingen, Texas.
- 4:30-4:50—WRR, 1280, Dallas, Texas.
- 4:40-5:00—KGFV, 630, Pierre, S. D.
- 4:50-5:10—KARK, 890, Little Rock, Ark.
- 5:00-5:20—KGKO, 570, Wichita Falls, Texas.
- 5:10-5:30—KPOF, 880, Denver, Colo.
- 5:20-5:40—WNAD, 1010, Norman, Okla.
- 5:30-5:50—KFKA, 880, Greeley, Okla.
- 5:40-6:00—KUOA, 1260, Fayetteville, Ark.

## MONDAY MORNING

Sept. 4th, Oct. 2nd, Nov. 6th, Dec. 4th, Jan. 1

- 2:00-2:20—WMIL, 1500, Brooklyn, N. Y.
- WJAC, 1310, Johnstown, Pa.
- 2:10-2:30—WFAS, 1210, White Plains, N. Y.
- WRAK, 1370, Williamsport, Pa.
- 2:20-2:40—WNBK, 1500, Birmingham, N. Y.
- 2:30-2:50—WAGM, 1420, Presque Isle, Me.
- WBTM, 1370, Danville, Va.
- 2:40-3:00—WABI, 1200, Bangor, Me.
- WWSW, 1500, Pittsburgh, Pa.
- 2:50-3:10—WHDL, 1420, Tupper Lake, N. Y.
- WHAT, 1310, Philadelphia, Pa.
- 3:00-3:20—WCAX, 1200, Burlington, Vt.
- WLVA, 1370, Lynchburg, Va.
- 3:10-3:30—WSYB, 1500, Rutland, Vt.
- WTEL, 1310, Philadelphia, Pa.
- 3:20-3:40—WIBX, 1200, Utica, N. Y.
- WAZL, 1420, Hazleton, Pa.
- 3:30-3:50—WQDM, 1370, St. Albans, Vt.
- WVSU, 1370, Buffalo, N. Y.
- 3:40-4:00—WMBQ, 1310, Auburn, N. Y.
- WTBO, 1420, Cumberland, Md.
- 3:50-4:10—WGLC, 1370, Hudson Falls, N. Y.
- WBAX, 1210, Wilkes Barre, Pa.
- 4:00-4:20—WCAD, 1220, Canton, N. Y.
- KPQ, 1500, Wenatchee, Wash.
- 4:10-4:30—WNBX, 1260, Springfield, Vt.
- WMBG, 1210, Richmond, Va.
- KGBU, 900, Ketchikan, Alaska.
- 4:20-4:40—WMBZ, 1290, Saranac Lake, N. Y.
- WBRB, 1310, Wilkes-Barre, Pa.
- KGVO, 1200, Missoula, Mont.
- 4:30-4:50—WESG, 1040, Elmira, N. Y.
- WNBO, 1200, Silverhaven, Pa.
- KOOS, 1370, Marshfield, Ore.
- 4:40-5:00—WICC, 600, Bridgeport, Conn.
- WRAW, 1310, Reading, Pa.
- KGY, 1210, Olympia, Wash.
- 4:50-5:10—WAAZ, 940, Jersey City, N. J.
- WJBU, 1210, Sunbury, Pa.
- KFBI, 1370, Everett, Wash.
- 5:00-5:20—WSYB-WMAC, 870, Syracuse, N. Y.
- KFXD, 1200, Nampa, Idaho.

5:10-5:30—WCAC, 600, Storrs, Conn.  
 KVL, 1370, Seattle, Wash.  
 5:20-5:40—KGEZ, 1310, Kalispell, Mont.  
 5:30-5:50—KUJ, 1370, Walla Walla, Wash.  
 5:40-6:00—KGCC, 1310, Wolf Point, Mont.  
 5:50-6:10—KFQD, 1230, Anchorage, Alaska.  
 6:00-6:20—KIFH, 1310, Juneau, Alaska.  
 6:10-6:30—KVOS, 1200, Bellingham, Wash.  
 6:20-6:40—KIT, 1310, Yakima, Wash.  
 6:30-6:50—KRSC, 1120, Seattle, Wash.  
 6:40-7:00—KXRO, 1310, Aberdeen, Wash.  
 6:50-7:10—KFIO, 1120, Spokane, Wash.  
 7:00-7:20—KFJI, 1210, Klamath Falls, Ore.  
 7:10-7:30—KMED, 1310, Medford, Ore.  
 7:20-7:40—KORE, 1420, Eugene, Ore.

### TUESDAY MORNING

Sept. 5th, Oct. 3rd, Nov. 7th, Dec. 5th, Jan. 2nd

2:00-2:20—WQDX, 1210, Thomasville, Ga.  
 2:10-2:30—WBHS, 1200, Huntsville, Ala.  
 2:20-2:40—WBBC, 1370, Memphis, Tenn.  
 2:30-2:50—WJBY, 1210, Gadsden, Ala.  
 2:40-3:00—WKEU, 1500, LaGrange, Ga.  
 2:50-3:10—WRBL, 1200, Columbus, Ga.  
 3:00-3:20—WMBR, 1370, Tampa, Fla.  
 3:10-3:30—WHEE, 1210, Troy, Ala.  
 3:20-3:40—WSJS, 1310, Winston-Salem, N. C.  
 3:30-3:50—WHEF, 1500, Kosciusko, Miss.  
 3:40-4:00—KMLB, 1200, Monroe, La.  
 3:50-4:10—WAMC, 1420, Anniston, Ala.  
 4:00-4:20—WKFT, 1210, Greenville, Miss.  
 KWG, 1200, Stockton, Calif.  
 4:10-4:30—WTJS, 1310, Jackson, Tenn.  
 KPJM, 1500, Prescott, Ariz.  
 4:20-4:40—WPFB, 1370 Hattiesburg, Miss.  
 KERN, 1200, Bakersfield, Calif.  
 4:30-4:50—WENC, 1420, Americus, Ga.  
 KXO, 1500, El Centro, Calif.  
 4:40-5:00—WBBX, 1200, New Orleans, La.  
 KIEM, 1210, Eureka, Calif.  
 4:50-5:10—WROL, 1310, Knoxville, Tenn.  
 KLS, 1440, Oakland, Calif.  
 5:00-5:20—WRAM, 1370, Wilmington, N. C.  
 KGIX, 1420, Las Vegas, Nev.  
 5:10-5:30—WJBW, 1200, New Orleans, La.  
 KGMB, 1320, Honolulu, Hawaii.  
 5:20-5:40—WAML, 1310, Laurel, Miss.  
 KRE, 1370, Berkeley, Calif.  
 5:30-5:50—WSIX, 1210, Springfield, Tenn.  
 KGU, 750, Honolulu, Hawaii.  
 5:40-6:00—KGAJ, 1370, Tucson, Ariz.  
 5:50-6:10—KCRJ, 1310, Jerome, Ariz.  
 6:00-6:20—KGDH, 1100, Stockton, Calif.

### WEDNESDAY MORNING

Sept. 6th, Oct. 4th, Nov. 1st, Dec. 6th, Jan. 3rd

2:00-2:20—WEBR, 1310, Buffalo, N. Y.  
 2:10-2:30—WNBW, 1200, Carbondale, Pa.  
 2:20-2:40—WSAJ, 1310, Grove City, Pa.  
 2:30-2:50—WHIS, 1410, Bluefield, W. Va.  
 2:40-3:00—WFBC, 1310, Altoona, Pa.  
 2:50-3:10—WPHR, 1200, Petersburg, Va.  
 3:00-3:20—WKBB, 1310, E. Dubuque, Ill.  
 WEBC, 1290, Superior, Wis.  
 3:10-3:30—WRBX, 1410, Roanoke, Va.  
 WHBC, 1200, Canton, Ohio.  
 KGIW, 1420, Trinidad, Colo.  
 3:20-3:40—WBBL, 1210, Richmond, Va.  
 WTRC, 1310, Elkhart, Ind.  
 KICA, 1370, Clovis, N. M.  
 3:30-3:50—WEHC, 1350, Charlottesville, Va.  
 WBCM, 1410, Bay City, Mich.  
 KGH, 1200, Little Rock, Ark.  
 3:40-4:00—KIDW, 1420, Lamar, Colo.  
 3:50-4:10—WOCL, 1210, Jamestown, N. Y.  
 KFLV, 1410, Rockford, Ill.  
 KBTM, 1200, Paragould, Ark.  
 4:00-4:20—WBOW, 1310, Terre Haute, Ind.  
 KGKY, 1500, Scottsbluff, Neb.  
 4:10-4:30—WHBL, 1410, Sheboygan, Wis.  
 KGFL, 1370, Roswell, N. M.  
 4:20-4:40—WBEO, 1310, Marquette, Mich.  
 WBBZ, 1200, Ponca City, Okla.

4:30-4:50—WHAD, 1120, Milwaukee, Wis.  
 WCAL, 1250, Northfield, Minn.  
 4:40-5:00—WCAZ, 1070, Carthage, Ill.  
 KFJB, 1200, Marshalltown, Iowa.  
 4:50-5:10—WISN, 1120, Milwaukee, Wis.  
 WACO, 1420, Waco, Texas.  
 5:00-5:20—WDZ, 1070, Tuscola, Ill.  
 KGDE, 1200, Fergus Falls, Minn.  
 5:10-5:30—WLBL, 900, Stevens Point, Wis.  
 WLB, 1250, Minneapolis, Minn.  
 5:20-5:40—WHA, 940, Madison, Wis.  
 WIL, 1200, St. Louis, Mo.  
 5:30-5:50—WKAR, 1040, E. Lansing, Mich.  
 KGHF, 1320, Pueblo, Colo.  
 5:40-6:00—WAAF, 920, Chicago, Ill.

### THURSDAY MORNING

Sept. 7th, Oct. 5th, Nov. 2nd, Dec. 7th, Jan. 4th

2:00-2:20—WSOC, 1210, Charlotte, N. C.  
 2:10-2:30—WSPA, 1420, Spartanburg, S. C.  
 2:20-2:40—WFBC, 1200, Greenville, S. C.  
 2:30-2:50—WKBC, 1310, Birmingham, Ala.  
 2:40-3:00—WJBO, 1420, Baton Rouge, La.  
 2:50-3:10—WGCM, 1210, Mississippi City, Miss.  
 3:00-3:20—WRDW, 1500, Augusta, Ga.  
 WBBY, 1200, Green Bay, Wis.  
 WDAH, 1310, El Paso, Texas.  
 3:10-3:30—WKAQ, 1240, San Juan, P. R.  
 WJMS, 1420, Ironwood, Mich.  
 KLUF, 1370, Galveston, Texas.  
 3:20-3:40—WCSC, 1360, Charleston, S. C.  
 WEDC, 1210, Chicago, Ill.  
 KTSM, 1310, El Paso, Texas.  
 3:30-3:50—WBIG, 1440, Greensboro, N. C.  
 WHFC, WKBI, WEHS, 1420, Cicero, Ill.  
 KGKL, 1370, San Angelo, Texas.  
 3:40-4:00—WCOA, 1340, Pensacola, Fla.  
 WBCB, 1210, Chicago, Ill.  
 KPMP, 1310, Greenville, Texas.  
 3:50-4:10—WQBC, 1360, Vicksburg, Miss.  
 KPZ, 1420, Fond du Lac, Wis.  
 KMAC, 1370, San Antonio, Texas.  
 4:00-4:20—WDBO, 580, Orlando, Fla.  
 WEBG, 1210, Harrisburg, Ill.  
 KFYC, 1310, Lubbock, Texas.  
 4:10-4:30—WNBR, 1430, Memphis, Tenn.  
 WMPG, 1500, Lapeer, Mich.  
 KONO, 1370, San Antonio, Texas.  
 4:20-4:40—WQAM, 560, Miami, Fla.  
 WBBF, 1210, Rock Island, Ill.  
 KFGQ, 1310, Boone, Iowa.  
 4:30-4:50—WDAE, 1220, Tampa, Fla.  
 WKBZ, 1500, Ludington, Mich.  
 KFJM, 1370, Grand Forks, N. D.  
 4:40-5:00—WJEM, 990, Tupelo, Miss.  
 WCBS, 1210, Springfield, Ill.  
 WIAS, 1310, Ottumwa, Iowa.  
 4:50-5:10—WCOG, 880, Meridian, Miss.  
 WKBY, 1500, Connersville, Ind.  
 5:00-5:20—WODX, 1410, Mobile, Ala.  
 WTAX, 1210, Springfield, Ill.  
 KGBX, 1310, Springfield, Mo.  
 5:10-5:30—WTOG, 1260, Savannah, Ga.  
 WHBD, 1370, Mt. Orab, Ohio.  
 KCMC, 1420, Texarkana, Ark.  
 5:20-5:40—WHBU, 1210, Anderson, Ind.  
 KGFV, 1310, Kearney, Neb.  
 5:30-5:50—WIBM, 1370, Jackson, Mich.  
 KGFF, 1420, Shawnee, Okla.  
 5:40-6:00—WOMT, 1210, Mantowoc, Wis.  
 KNOW, 1500, Austin, Texas.

### In the October Issue

Lesson No. 1 of "The Beginners' Story of Radio" by B. Francis Dashiell—a home-study course in elementary Radio written so you can understand it.

# A FLOOD of MIDGET RECEIVERS

• • • By B. FRANCIS DASHIELL

**T**HE new, universal radio receivers that operate on 110 volts, alternating or direct current, have appeared in great abundance. They are small—averaging only about ten inches long, six high and five wide, while the lightness of weight—less than eight pounds—makes them extremely portable. The compact set is truly personal for it may be carried around the home and used to supplement the larger receiver, or it can be taken to the office, carried to hotels, the camp, or on the vacation trip.

Aerials are not used for local reception with many of the receivers; they are built into the cabinets. But for distant reception or louder volume, however, a short aerial of about 25 feet is furnished. It may be laid on the floor or hung out of a window. No ground is required, but when noisy reception is noted in d.c. districts some improvement may be had by connecting a ground wire to the chassis through a small condenser that is already arranged in series with the terminal. The compactness of the set causes some overheating, but special power line cords are provided to carry off any excess heat.

## Not Recommended for Batteries

In only a very few cases are the a.c.-d.c. sets designed to operate on 6 or 32 volts batteries with proper "B" batteries or automobile eliminators. Most manufacturers do not look with favor on the 6-volt feature as these sets are not so well adapted to automobile use because of the rather limited power and small number of tubes.

Practically all of the sets now being offered have a short wave switching arrangement so that police, airplane, ship and amateur calls can be received in addition to the regular broadcasts. Automatic volume control is found in some receivers and tone control as well.

The more expensive sets have fine quality mahogany and walnut cabinets, some with inlaid marquetry work. The moulded bakelite cabinets are attractively designed, while some of the more inexpensive sets use metal cases that are extremely rugged and durable for portable handling.

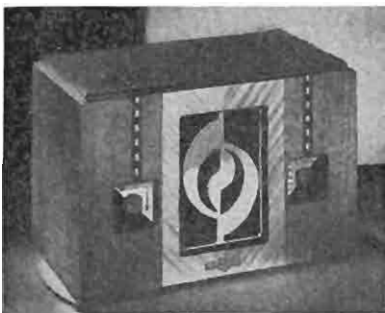
## The Circuits

Two types of circuits—tuned radio frequency, and balanced superheterodyne—are in general use. The former requires four tubes, while the latter takes from five to six tubes. The introduction of new tubes, such as the -43, -77, -78, 6D6, 25Z5, etc., has made these remarkable midget sets possible. In fact, some of the 5-tube circuits are equal to the older 7-tube circuits. The 25Z5 rectifier and -38 and -43 power output tubes are used almost exclusively. The 25Z5 is a late development designed for 25 volts and 0.3 ampere current consumption while the -43 is a pentode power tube having three grids and great output without distortion.

Because power transformers are not used in a.c.-d.c. sets there can be only a maximum of approximately 110 volts on the plates of the tubes. But this aids materially to reduce the cost



Lafayette Model "Nomad"  
Wholesale Radio Service, Inc.



*Majestic Model 411  
Grigsby-Grunow Co., Inc.*

of construction. The operation is different for each kind of current supply. On a.c. operation the 25Z5 tube usually is arranged to act as a half-wave rectifier so either 25 or 60 cycle current can be used. It provides the tubes with the necessary d.c. voltage after being filtered in the conventional manner. On d.c. operation the 25Z5

So that the prospective purchaser of a compact, midget set of this type can be guided in weighing the relative values of the more important of the a.c.-d.c. receivers, RADEX presents brief descriptions summarizing the vital features of the sets.

### The Sets and Their Prices

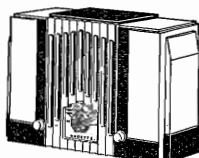
Crosley model "Travo"; \$12.95; 4-tube superheterodyne; tubes are: -78 oscillator, 6F7 i.f. and detector, -38 power output, and 12Z3 rectifier; operates on 110 volts a.c. or d.c.; receives regular broadcasts—200 to 550 meters.

RCA Victor model R-17; \$12.95; 4-tube tuned radio frequency; tubes used: -36, -37, -38 and -39; uses 110 volts a.c. or d.c.; receives regular broadcasts.

Lafayette model "Nomad"; \$17.50; 5-tube superheterodyne; two -77s, -78, -43 power, and a 25Z5 rectifier; 110 volts a.c. or d.c.; regular broadcasts,



*Super-Fadelette Model 107*



*International Kadette Model B*



*Crosley Dual Travette*

permits the current to flow through the circuit just as it would between the plate and cathode or filament of any radio tube.

### Position of the Plug

With d.c. power the set will operate only when its power-cord plug is in one position in the 110-volt d.c. socket. The polarity of the lighting circuit must be such that the positive socket contact connects to the plate circuit side of the set. It may be necessary to reverse the plug half way around in its wall socket to find the proper polarity before the set will operate. No harm will be done if the plug is inserted incorrectly in the socket. Even on a.c. operation there sometimes is one position in the socket for the plug where the receiver will be less noisy.

and police, airplane and amateur calls down to 75 meters.

RCA—Victor model R-18; \$17.95; 4-tube tuned radio frequency; -78, -77, -38 and 25Z5 rectifier; 110 volts a.c. or d.c.; regular broadcasts and police calls.

DeWald "Dynette" model 414; \$17.95; 4-tube tuned radio frequency; -77, -78, -38 and 25Z5 rectifier; 110 volts a.c. or d.c., and also 6 and 32



*Emerson Universal Compact Model AW 250*

volts battery; regular broadcasts received.

Emerson model 20-A; \$17.95; 4-tube tuned radio frequency; -39 r.f., -36 detector, -38 power, and -37 rectifier; 110 volts a.c. or d.c., and 6 volts and 32 volts battery; cable and plug for 6 and 32 volt battery use, \$2.00 extra; regular broadcasts; also made in deluxe cabinet that sells for \$25.00.

Crosley model "Travette"; \$19.95; 5-tube superheterodyne; -78 oscillator, -78 i.f., -36 detector, -38 power output, and 12Z3 rectifier; 110 volts a.c. or d.c.; regular broadcasts, and police, amateur and aviation calls.

U. S. Radio model 3092; \$19.95; 5-tube superheterodyne; 6F7 oscillator and 1st detector, -78 i.f., -75 2nd detector and 1st audio, -43 power output, and 25Z5 rectifier; 110 volts a.c.



*Philco Model 54-C*

or d.c.; regular broadcasts.

RCA Victor models R-22-S and W; \$24.75; difference only in cabinets; 5-tube superheterodyne, -77, -78, 6A7, -43 power output, and 25Z5 rectifier; 110 volts a.c. or d.c.; regular broadcasts and police calls.

Atwater Kent model 155; \$24.90; 5-tube superheterodyne; -36 1st detector and oscillator, -44 i.f., -85 2nd detector, 1st audio and a.v.c., -43 power output, and 25Z5 rectifier; automatic volume control; 110 volts a.c. or d.c.; regular broadcasts, and short waves with police calls up to 1750 kilocycles.

Zenith model 701; \$24.95; 5-tube superheterodyne; two 6D6s, -75, -43 power and 25Z5 rectifier; automatic volume control; 110 volts a.c. or d.c.; regular broadcasts and police calls.



*U. S. Radio & Television Co. Model 3092*

Sparton model 61; \$24.95; 5-tube superheterodyne; -78 1st detector and oscillator, -78 i.f., -75 2nd detector and a.v.c., -43 power output, and 25Z5 rectifier, automatic volume control, 110 volts a.c. or d.c.; regular broadcasts, and short waves down to 60 meters; also same model in a deluxe cabinet at \$30.00.

Fada "Fadalette" model 106; \$24.95; 5-tube superheterodyne; 6A7 1st detector and oscillator, -78 i.f., 6B7 2nd detector, automatic volume control and 1st audio, -43 power, and 25Z5 rectifier; automatic volume control; 110 volts a.c. or d.c.; regular broadcasts, police, aviation, ships and amateur calls; also same model in deluxe cabinet at \$26.95.

Philco model 54-C; \$25.00; 5-tube superheterodyne; 6A7, -78, -75, -43 power, and 25Z5 rectifier; automatic volume control; 110 volts a.c. or d.c.; regular broadcasts, and police and short wave calls up to 3300 kilocycles.

Emerson model AW-250; \$25.00; 5-tube superheterodyne; two -78s, -77, -43 power, and 25Z5 rectifier; tell-tale pilot light; 110 volts a.c. or

*Atwater Kent Model 155*





Stewart-Warner Model 1111

d.c.; regular broadcasts, and short waves down to 75 meters.

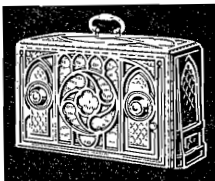
Kadette model standard B; \$25.00; 5-tube superheterodyne; 6A7 1st detector and oscillator, 6D6 i.f., 6B7 2nd detector and 1st audio, -43 power output, and 25Z5 rectifier; automatic volume control; tone control; 110 volts a.c. or d.c.; regular broadcasts, and police calls; also made in de luxe models B and A at \$27.50 and \$30.00, respectively; International Radio Co., is said to be the originator of the compact a.c.-d.c. set, and offers a factory service by mail for one year at a charge of one dollar per servicing.

DeWald "Dynette" model 550; \$25.00; 5-tube superheterodyne; -78, -77, -44, -43 power and 25Z5 rectifier; 110 volts a.c. or d.c.; regular broadcasts; also a deluxe cabinet at \$27.50, model 551.

DeWald "Dyette" model 54; \$25.00; 5-tube superheterodyne; -36, -38, two -37s and -39; 110 volts a.c. or d.c.; regular broadcasts.

Stewart-Warner model 1115; \$29.50; 6-tube superheterodyne; -78 1st detector, -37 oscillator, -78 i.f., 6B7 2nd detector and 1st audio, -43 power output, and 25Z5 rectifier; automatic volume control; 110 volts a.c. or d.c.; regular broadcasts and police, amateur and aviation calls; also model 1111 in de luxe cabinet at \$32.50.

Majestic models 411 and 413—different cabinets; \$29.50; 6-tube super-



RCA-Victor Model R-22-S

heterodyne; 57A 1st detector and oscillator, 58A i.f., 57A 2nd detector, -43 power output, and 25Z5 rectifier, and a 46A ballast tube; 110 volts a.c. or d.c.; regular broadcasts and police calls.

DeWald models 60-3 and 60-42; \$35.50 and \$52.50 respectively; former is a table model and the latter a standard console cabinet; 6-tube superheterodyne using two -78s, one -77, one -37, one -43 output, and a 25Z5 rectifier; automatic volume control; tone control; 110 volts a.c. or d.c.; regular broadcasts.

## Did You Miss These?

The June Issue, No. 70 contained . . .

A complete list by frequencies and by countries of all the broadcasting stations of the world.

Part 2 of the article "Building a Short Wave Converter," with diagrams and list of parts.

The May Issue, No. 69 contained . . .

The post office addresses, slogans and buildings mentioned in the announcements of all stations.

Part 1 of the article on "Building a Short Wave Converter."

An article on "Breaking Into the Short Waves" by Page Taylor.

The April Issue, No. 68 contained . . .

Diagrams and instructions for building a Power Line Noise Filter.

The Short Wave Stations of the World by frequencies.

The March Issue, No. 67 contained . . .

Writing a letter in Spanish regarding reception of Cuban and Mexican stations.

The February Issue, No. 66 contained . . .

Diagrams and instructions for attaching head phones to electric sets.

Using the new type tubes in place of old.

The Trans-Pacific Broadcasting Stations by frequencies with their time on the air.

We have a limited supply of the above issues which will be mailed postpaid at 25c each, five for \$1.00 or ten for \$1.75.



# WHAT'S WRONG *with* My Set?

Answers by the TECHNICAL EDITOR

**I** HAVE a twelve-volt windmill electric generating plant and wish to run my battery radio from it. However, as I have only 12 volts available, is there any way I can give up the B batteries and use some other form of eliminator?

We presume the 12-volt generator charges a 12-volt storage battery or two 6-volt batteries connected in series. One 6-volt battery will be needed to light the filaments of the 6-volt tubes in your receiver. This same battery can be used to operate an automobile B battery eliminator. This device was developed to provide B battery voltage for automobile radios from the storage battery system of the car.

The B eliminator operates on 6 volts and steps it up to a higher potential like any a.c. transformer except that an interrupter or vibrator is used to break the steady d.c. battery current into a 60-cycle pulsating current. The increased potential is then rectified with a tube, such as the type-80, and passed on to the radio plate circuits as needed, up to 180 volts.

## S. W. Converter Tubes

*I have a Crosley model 7-2 short wave converter and would like to know how to get more efficient results by using the new tubes.*

The construction of this short-wave converter is such that its circuit is critical, particularly the oscillator, and it is built around the characteristics of the -24 and -27 tubes. To replace these tubes with 56s and 57s would tend to throw the circuit out of its electrical balance and cause detuning with perhaps objectionable howls and oscillations.

## A Humming Set

*My Silver-Marshall 726 SW receiver starts to hum about half an hour after it is turned on. Can you account for this? We have failed to*

*locate the source of trouble.*

The time elapsing between the time your set is turned on and the arrival of the humming annoyance seems to indicate that some component part in the receiver is undergoing a slow change. This may be due in some manner to a melting or heating of packing material, the slow expansion of a joint, due to the gradual temperature rise following tube and transformer operation in any a.c. set.

In some cases a power transformer, an audio amplifying transformer, condenser block, resistor, will undergo a slow characteristic change in its value or operation.

It is suggested that you carefully inspect the entire circuit for any leakage or oozing of packing and insulating material, or for the discolor-



*Where do you think they found this singer? In a song-shop! She's just eighteen, is Lila Rose, who recently joined Frank La Marr's Orchestra as featured singer. Listen for her during the late hour dance broadcasts.*

ing of any piece of apparatus due to overheating. All parts should be provided with sufficient ventilation to prevent concentration of heat and injury to parts of the receiver. The replacement or repairing of the defective part will make the set as good as new and cure it of the objectionable humming noises.

#### Poor Tone Reproduction

*My Philco model III, on certain wave lengths, seems to have a severe loss of tone qualities. It has been tested at the factory and pronounced o.k., but the trouble still persists. Can you help me?*

Unfaithful reproduction in a receiver, which tests satisfactorily, is usually the result of overloading in the circuit. The signal will increase in strength with the turning up of the volume control beyond a certain point, after which distortion will take place and the signal strength will actually reduce in volume. Due perhaps to more perfect alignment from 560 to 610 kilocycles in your case, as you



At his ease is Theo. Karle in this new portrait of one of the most distinguished tenors heard over the Columbia network. In the Light Opera programs, Tuesdays at 10:45 p. m. and in the Cathedral Hour, Sundays at 4:00. EDST.

state, the gain may be somewhat greater, and the obvious remedy is to reduce considerably your antenna length. A long aerial accounts for the lack of sensitivity even when circuits are well aligned. Heterodyne noise harmonics and the cross-talk that you note are also symptoms of excessive input signals. You might try a 100,000 ohm resistor connected between the aerial and ground terminals of the receiver for reception of local and the more powerful stations.

#### Trouble With S. W. Converter

*I have a nine-tube Airline receiver that is used with a Stewart-Warner short-wave converter. Stations between 17 and 75 meters jump, vibrate and oscillate. Why is this?*

Development work on high frequency circuits has not reached the place where such circuits are highly stable, and when we look at the nature of short waves we see that the problems involved in the design of short-wave circuits are quite complicated and their proper solution has not been approached.

The action which you mention is the result of natural instability of the circuit and can possibly be overcome by complete redesign. This is impracticable, of course, so our suggestion is to avoid this trouble as much as possible by reducing the gain (volume) without losing the signal to a point where stability in the circuit is obtained. The combination you use may cause an overall gain that could be too great for the satisfactory operation of the entire equipment. This applies only to the shortest of the short waves where most of the trouble can be expected to occur—in your case between 17 and 75 meters. Such experiences are widely reported.

#### Replacing 15-Volt Tubes

*My Knight receiver uses the old type fifteen-volt tubes. I would like to replace them with some of the newer types of 2.5-volt tubes. How can I introduce a resistance that will cut the voltage down?*

The only practicable method of changing to standard tubes is to obtain a new filament transformer giving 2.5 volts and sufficient amperage to run all of the tubes in your set. Or you can replace your transformer with one having similar taps except that it should have a 2.5-volt filament secondary instead of the 15-volt one as at present. The use of a resistor to reduce your voltage is impracticable.

Cut the two filament leads from your present transformer and solder in its place the 2.5-volt leads from a separate filament transformer. Then the tubes can be changed to the 2.5-volt types. But, all this is more or less of a preliminary to other changes that must be made to take care of the different characteristics of the new tubes. The task is very complicated if the set is to be made efficient and should be undertaken only by a competent service man using proper meters and other apparatus.

#### Using Dynamic Speaker

*I wish to replace my magnetic speaker (used in an a.c. Knight receiver) with a more modern and better dynamic speaker. How can this be done?*

A dynamic speaker may be used with an externally excited field provided that an output transformer is employed which will match the a.c. resistance of the tubes with its primary coil, and that of the speaker voice coil with its secondary coil. Or, if you can obtain a speaker the field of which is very nearly like the second filtered choke in your receiver, it may be used to replace this choke and thus obtain the necessary excitation from the set. Your serviceman can attend to this in the proper manner.

#### Neutralizing Regenerative Set

*I have a one-tube regenerative set which I wish to neutralize so it will cease radiating and annoying my neighbors. Please tell me how to go about this.*

Your problem does not permit an easy solution. Since your set uses a three-circuit tuner and one tube it



*Gracie Allen wants to cut George Burns' hair to fit his hat. This nonsensical pair are still delighting CBS audiences Wednesdays at 9:30 p. m. EDST.*

will be difficult to neutralize the circuit so that oscillations created by the regenerative action of the tickler coil will not be broadcast through the directly coupled antenna. One of the difficulties of this type of circuit has been its inherent radiating when oscillating so as to cause serious whistling and "blooping" in neighboring sets.

The inter-electrode capacity of the tube must be compensated for by a small neutralizing condenser of the balancing type—about 30 micro-microfarads capacity. Connect it between the plate of the tube and the bottom or ground end of the secondary grid coil of the tuner. Couple the tickler as loosely as possible and adjust the condenser with an insulated handle until the howls and whistles decrease to a minimum. If this set had a stage of tuned-radio-frequency ahead of the present single tube—detector—the job would be



Here is the Fire Chief's Uncle, Taylor Holmes of the unmanageable tongue, with Larry Butler, the nine-year old mascot of the fire house and Olaf, the Swedish fireman and chauffeur of the Fire Chief's horse. On the Texaco program while Ed Wynn is on vacation.

easier. You might also try tapping the 15th turn of your coil, from the bottom, and connecting the neutralizing condenser to that connection instead of the bottom coil wire end.

#### Current Consumption

*How much electricity does my Majestic 363 set consume, and what is the cost of operation?*

Allowing for three 56s, two 57s, three 58s, two 59s, and one 82, additional current losses and the usual inefficiency of transformers and rectifiers, we estimate that your receiver uses approximately 90 watts per hour. This is the same as burning an electric lamp of the same wattage for one hour, and consumes less than 1/10th of a kilowatt. If you pay five cents per kilowatt hour, it means that the cost of operation is about one-half a cent per hour.

#### Phones With 59 Tube

*My Midwest nine-tube set uses a 59 power tube. Your article in the February issue on attaching headphones did not mention this new type of tube. How can I connect to it?*

You cannot procure a wafer adapter that will fit beneath the 59 tube. You can make the attachment to the plate of that tube, or the plate hole of the tube socket. In order to

help you locate the plate of the tube or hole of the socket, the plate contact or pin is the No. 2 pin to the right of the two large pins used for the heater, when looking down upon the socket from the top.

#### Filter For 25-Cycle Current

*Can I use the noise filter described in the April issue of RADEX on a 25-cycle a.c. power line, or what change will be needed in the wiring?*

When a coil of wire is introduced in a 60-cycle line it has a much higher resistance, or reactance, than when placed in a 25-cycle line. Therefore, a much larger coil must be used when placed in a 25-cycle power line when it is desired to pass only 25 cycles but choke back other and higher frequencies as far as possible.

We suggest that you double the amount of wire placed on the two coils, and increase the condenser capacity to 0.2 mfd. each. Also increase the length of the tubes upon which the wire is wound so as to have not more than three layers wound upon them.



Fred Berrens in an informal portrait at his home. As conductor of the "Captivators," Maestro Fred leads more than a dozen programs of dance music each week on the See-Bee-Ess.

# INTERVIEWING *the* Celebrities

••• With "Betty"

**I**F YOU should take a trip through Kentucky and decide to stop off at Paducah, the chances are that the cab driver would take you, without your having to ask, to the city's most pretentious hotel—the Hotel Irvin S. Cobb. The gentleman for whom the hotel was named was born in Paducah fifty-seven years ago. His brand of humor has been an American tradition for more than two decades and Paducah is rather proud of him.

Irvin S. (for Shrewsbury) Cobb is the first of his line to achieve great distinction. His father, Joshua Cobb, was a tobacco warehouseman, an honorable profession which did not necessarily bespeak a literary career for his son. In response to the question, "Where were you educated?" Cobb is accustomed to answer, "I wasn't." While he attended school, he supported himself by delivering newspapers and driving an ice-wagon. His report cards show that he left school several times by request, a fact which did not deter Dartmouth College and the University of Georgia from conferring honorary doctorates of law on him in later years.

## Getting a Start

By the time he had turned seventeen, he had already become a contributor to some of the country's leading comic publications. He was earning a regular living by serving on the reportorial staff of a local paper. Two years later he had become editor of the "Paducah Daily News." It looked for a time as if he were going in for the serious side of journalism. He spent three years in Louisville writing for the "Evening Post" of that city. In 1901 he returned to his home-town to become managing editor of the "Paducah

News-Democrat."

In the meantime he had continued his exploring into the field of humorous writing. He was fast gaining a national reputation and in 1904 he became editor of the humor section of the "New York Evening Sun." Following a brief tour of duty with this newspaper, he became staff humorist of the "New York Evening World." At the same time he was contributing to magazines, writing books and trying to break into the theatrical world as a playwright and director.

During the war he was sent to France as a correspondent. The sight of Irvin S. Cobb, all but bursting out of his snugly fitted khaki, was a joy to the men in the trenches. After the Armistice, Cobb tried to start a fashion of men wearing military breeches because he discovered



Irvin S. Cobb

it was unnecessary to keep them pressed.

### Into Radio

His current radio series over Columbia finds him engaged on his first long-term broadcasting contract. Facing the microphone holds no great terror for him, although he admits he feels the absence of a visible audience. He has lectured in every state of the Union with the exception of Vermont, New Mexico and Nevada. He can't understand what those states have against him. As an after-dinner speaker Cobb is second to none.



*Lee Wiley*

For the statistical-minded: Cobb weighs 198 pounds and is half-an-inch under six feet . . . he has brown hair, grey eyes, a ruddy complexion, smokes cigars continually and wears imposing horn-rimmed glasses . . . He is married and has a six-year-old granddaughter who is his favorite fan.

### The Little Girl From the Plains

Varied are the routes that bring artists to the portals of the great broadcasting studios. Still more varied are the methods these enter-

tainers use to sound the magic "Open sesame" that puts them before the microphone. Few radio entertainers were luckier in this respect than Lee Wiley, featured NBC singer. Less than a month after she arrived in New York from Fort Gibson, Okla., her home, Miss Wiley found the magic words that put her on the air, at first singing only choruses. That was little over two years ago. Soon Lee became a featured singer.

According to Lee, the route was straight from Fort Gibson to New York, by rail, non-stop. The "Open sesame," according to those who have guided her, was her deep plaintive voice.

Miss Wiley is one-fourth Cherokee Indian. The rest is plain American. Her mother and father taught in the Oklahoma State Normal College, and Lee says she probably would have followed their footsteps if she had not discovered her voice. She attended Muskogee High School and the University of Oklahoma. She sang in the village Sunday school at Fort Gibson and later in concerts at Tulsa and Muskogee. She has two brothers and one sister.

The little girl from the plains, who tells stories in song over the air, lives in an apartment close to NBC's Fifth Avenue studios, in New York. One of her sisters usually is with her. At a tiny piano in one corner of her living room the songstress may often be seen for hours at a time writing her own musical compositions. When not writing music or reading, Lee is likely to be found cantering around the bridle path in Central Park. She has her own horse, and coming from the country where men are men and women ride horses, she is thoroughly at home in the saddle.

She likes to dress, she says in "conservative but striking" clothes. She usually appears in the studio wearing a gown of black velvet. Another important item of her singing apparel is a chiffon handkerchief—a new one for each appearance, for she tears it to shreds during her broadcast. Her favorite color is brown



Lou Holtz

to match her eyes, and her hair is dark. She weighs 115 pounds and doesn't have to worry about her weight.

At the microphone, Lee loses the exuberance that is a mark of her personality, and becomes tensely quiet. She likes studio audiences, because she feels they create a warmer atmosphere. On the other hand, she wishes she didn't have to dress up for broadcasts, because she thinks she sings her best in a sweater and skirt. She is not married, but she dreams of settling down some day in a village in southern France. Lee, at present, may be heard with the Pond's program over the NBC (Red) network each Friday at 9:30 p. m. EDST.

#### About Lou Holtz

Before the motion picture invasion drove two-a-day vaudeville from the boards, the Palace Theatre in the heart of Manhattan's theatrical district was the goal of all variety performers. An engagement at the Palace established any act as a success. The audiences were the most

critical in all the realm of vaudeville. Last year the Palace followed the trend of the times and adopted a motion picture and vaudeville policy. But just before the change another name was added to the roster of those who had set house records. The name that sparkled on the theatre's marquee for eight weeks was that of Lou Holtz, exponent of strange and intricate comedy dialects.

Lou's eight weeks at the Palace climaxed a long, successful career in musical comedy and vaudeville, and now, after another brilliant season on the stage, he is making more entertainment history in his first regular series of radio programs, providing the comedy element in the Chesterfield show on the Columbia network each Friday at 10:00 p. m. EDST.

It was in New York thirty-four years ago that Holtz was born. His family took him to San Francisco when he was a child, and his education and early training in the amusement field were gained in that city and its environs. During his school days he took singing lessons, but after three months of running the scales, decided he would rather be a comedian. At the age of sixteen he made his professional debut as an entertainer in the Crest Cafe just outside San Francisco. He was nervous then and, he says, he is still nervous when he starts a show. Before the microphone his nervousness dwindles as the program progresses. The larger the audience in the studio the more quickly he recovers. Crooked over his arm throughout the entire broadcast is his invaluable cane. He never performs without it.

Holtz values highly his reliable "stooge" "Shawowsky" (Benny Baker) . . . Values even more highly his association with the Friars' Club . . . would establish a hospital for needy actors if he had a million dollars . . . plays golf almost every day and walks around Central Park every clear morning . . . likes to cook steaks and eggs . . . and thinks he'd make a good lawyer.

# Beginning a New RADIO SEASON

• • • *With the* EDITOR

**A**S THE very first order of business of the new radio year, we want to express our appreciation to the big majority of the broadcasting stations of North America who promptly and fully answered our recent questionnaires. It is most pleasant to have such cooperation from the broadcasters and it enables us to give our readers accurate and up to the minute information respecting each of the stations.

A number of changes are being made this year in our arrangements of this data which, we feel sure, will be welcomed by our readers. The time on the air now appears in the Index by Frequencies where it will be much more convenient while tuning. The owner's name will be found in the Index by Calls and we are re-

instating in that index the square for indicating the dial number or the reception and verification record.

The information respecting verification policies of the station has all been rechecked during the summer. Many stations are now insisting upon reports that can be accurately verified and our readers should be more careful than ever to give full and accurate reports. We regret to note the addition of several stations which no longer verify reports of reception. This action is undoubtedly caused by carelessness on the part of DXers in submitting reports.

## Big DX Season Coming

We have some good news for all Radexers for the coming season. One of the inquiries in our questionnaire was "Would you be willing to put on an occasional special DX program outside your regular hours if we will give it publicity in advance and provide you with a world-wide audience?" To this question *more than four hundred* stations answered "Yes." Think what a DX Calendar you are going to have. It looks like we would have to give about six pages to this feature.

A number of our far-distant readers to whom our DX Calendar is of the utmost importance, point out that our magazine is a month in transit reaching them. By that time, of course, the Calendar is out of date. As we cannot speed up the steamships between America and South Africa and New Zealand, we have been puzzled as to how we can get this information to the distant parts of the earth in time for listeners there to profit by the special DX programs. We are anxious to serve these readers in far-away lands and hope to work out some method that will help them at least in part.



*After gracing many a Ziegfeld musical show, Frances Upton now serves as chief feminine aide to the comedy of Lou Holtz on the CBS Fridays at 10:00 p. m. EDST.*



### Monthly Frequency Checks

Very few stations begin their regular DX programs before October or November. This month, however, we are fortunate in being able to give our readers the new schedule of FRC tests. Approximately 300 broadcasting stations will be required to maintain operating or silent schedules between midnight and six a. m. EST during the first week of each month so their operating frequencies can be checked without interference. A list of these stations and the time they are to be checked will be found in the DX Calendar on another page. During these tests, the call letters of the station being measured will be announced every three minutes. As this list will not appear again, readers are cautioned to save this issue for reference during ensuing months.

### New Mexican Rules

The Government of Mexico shows a commendable spirit in not awaiting any rules forced upon it by international agreement but proceeds to put its house in order to some degree. In the future broadcasts relative to medicine and health may be made only after permission by the authorities. All programs must be in Spanish but may afterward be translated into other languages. Foreign studios are prohibited. This looks like the finish for the goat-gland and cancer-cure stations set up on the south bank of the Rio Grande by men whose broadcasting license in this country was revoked by the Commission. One of these has made the threat that if his station in Mexico were interfered with he would follow the example of RXKR and start a station on the high seas outside the twelve-mile limit.

### Station Notes

This "dope" comes to us from Stuart B. Leland, 82 St. John's Place, New Canaan, Conn. "After considerable planning definite arrangements have been made for the consolidation of radio stations WHN, WPAP, WRNY and WQAO as a single broad-



*Little Connie Boswell and her Great Dane pet. This little fellow is only six months old. Wait until he grows up. The Boswell Sisters will be back on the Columbiaair soon.*

casting unit with studios on Broadway and a new transmitting plant in the suburbs. Major Edward Bowes, director of the Capitol Theatre, will head the concern which will be devoted to radio broadcasting on 1010 kcs. with the call WMGM." Stuart has received a station on 1510 kcs. using the call WRB and having transmitting facilities in Bridgeport, Conn. Their principal programs are from 2:00 to 8:00 p. m. and consist of recordings. Quality, fine. Who can identify this one?

The FRC recently found it necessary to issue a temporary license to a broadcasting station because of interference caused by an unnecessarily strong harmonic which resulted in serious interference with aviation services utilizing the frequency band in which this harmonic fell. In future broadcasters must not only keep to their primary frequency with a



*A major authority on sports is Grantland Rice who broadcasts for the CBS on the Country Club program each Friday at 9:30 p. m. EDST.*

fifty-cycle limit but they must also watch their harmonics, keeping them at a minimum.

Station KGER, Long Beach, Calif., now has a DX department under the supervision of Stewart E. ("DX Stew") Korb, himself an ardent DXer. If his plans materialize, DXers may expect from KGER a series of interesting broadcasts which will include the reading of late tips on both s. w. and b. c. bands, interviews with prominent DXers and an occasional DX party.

Press reports from Canada indicate the possibility of James Richardson & Son transferring their station in Fleming, Sask., to the city of Brandon in Manitoba. In this case the power will be increased. The move is hailed by some of our Manitoban readers who state that the programs provided by CKY have never been popular.

Fred W. Janssen, Ventura, Calif., sends us a letter from KTSM, El Paso, Texas, which states that hereafter reports of reception on KTSM

and WDAH will be promptly acknowledged as they are particularly anxious to hear from out of town listeners.

The transmitter of WODX, Mobile, Ala., was struck by lightning recently and permission has been granted by the FRC for the station to remain silent until September 10th, pending the rebuilding of the transmitter.

Station VONE, St. John's, Newfoundland, sends with its verification an autographed copy of an illustrated and interesting booklet describing the attractions of Newfoundland.

### Verification Troubles

"I wonder if any other readers have had the trouble verifying KLPM, Minot, N. Dak. that I have had," asks Harold W. Criswell, 1715 W. Orange St., York, Pa. "I wrote them three times enclosing postage each time. The last time I wrote them, about a month ago, I sent a self-addressed and stamped envelope but I haven't heard a word from them yet. I sent plenty of information for a verification. During the broadcast they stated they would answer all reports." In a questionnaire just returned to us by KLPM, they state that they verify all reports and we are unable to say why Mr. Criswell should have had such bad luck.

Harold E. Shade, 725 Washington Street, Waterloo, Iowa, announces the winners in a DX contest which he put on over Station WMT last spring. Mr. Shade offered as a first prize for the most distant listener correctly reporting reception of the program, a silver loving cup 12 inches high and for second prize, a gold certificate in a frame. More than 500 letters were received, the most distant listeners being S. Robson, Invercargill, New Zealand, and R. P. Reid of Timaru, New Zealand.

"In the June RADEX someone inquired about the Tunicoil tuner," recalls Thos. A. FitzGerald, 567 West St., Annapolis, Md. "It certainly is not the slightest use on a set like the Majestic 210 which is highly selective

and a good distance-getter. The directions given are vague and the appeal for a fair trial before returning the device, makes one suspicious at once. I bit through a radio advertisement. Now they have gone into a trusteeship to wind up the business—or so they say.”

Rhodes W. Fairbridge, Queens University, Kingston, Ont., finds that the long waves carry great distances with remarkable absence of fading and distortion. He says the European long-wavers are frequently heard as far distant as India and Africa. In view of the fact that the building of an adapting coil for the lower frequencies is a simple job, Mr. Fairbridge would like to have a list of the stations using frequencies below 500 kcs. We will try to provide such a list in a subsequent issue.

“I am certainly delighted with your list of stations by frequencies in the June issue,” compliments Harry P. Rosenbrock, 252 E. 4th St., Clifton, N. J. “I appreciate the amount of work you must have done to list the world stations, and also the fact that it is presented in RADEX for a quarter and not in a \$1 50 supplement.”

“Readers who own a Radiola 60 would be interested in knowing that a type 56 tube will greatly increase the output of their sets,” suggests Stuart B. Leland, 82 St. John Place, New Canaan, Conn. “This tube replaces the 27 near the 71A or 45 output tube.”

George Greensward, Brampton, Ontario, wants to know the mail address of I2RO, Rome, Italy, and DJD, Zeesen, Germany.

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In the August issue of Popular Science Monthly an interesting article entitled “Flyweight Portable Radio Set,” described a new, light receiver developed by Lieut. Wm. H. Wenstrom. Readers who may want to build this set will find the parts advertised on page 30 of this issue.

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*Don't miss Mr. Dashiell's "Simple Lessons in Radio" beginning next month.*

## ROSTER of the DX CLUBS

THE Newark News Radio Club was organized on December 1, 1927. It now has a membership of 1800. It is given generous space in and support by the Newark News, a copy of which is sent weekly to each member. The dues are \$2.00 for the first year and \$1.00 thereafter. Members receive a gold membership button and card. The Club arranges many special DX programs and a weekly calendar of DX tips is published in the weekly copy of the News received by members. These tips are also published in twelve other newspapers and two weeklies and are broadcast by 27 radio stations from coast to coast. There are five ratings for DX certificates—Junior, Master, Past Master, Ace and Super-Ace depending upon the verifications possessed by the member. Alfred W. Oppel is Executive Secretary and his address is 215 Market Street, Newark, N. J.

The Buffalo Evening News DX Club, Buffalo, N. Y., is sponsored by that paper and affiliated with WBEN. The dues are \$1.00 and a weekly tip-sheet arrives on time each week. A member receives a handsome diploma or certificate showing his rating according to verified log. A constant contest is carried on by the members. Anyone logging a station no other member has received is credited with a “singleton.” These singletons are targets for the other members; when someone catches another's singleton, he becomes an “eliminator” and is credited accordingly in the Club records.

International DX'ers Alliance, Bloomington, Ill., was organized in 1932, in the interest of logging foreign stations. (Membership not stated.) To join, listeners must have one or more verifications from foreign stations on the broadcast band and at least 2000 miles distant but not including stations in North America. The dues are \$1.00 a year for

North Americans and \$2.00 a year for those in foreign countries. "The Globe Circler" is published monthly. It is devoted entirely to foreign stations, changes, time, etc. Charles A. Morrison is President.

The New Zealand DX Radio Association, Inc., invites our readers to correspond with members of the Association and to write to their magazine, "Tune-In", P. O. Box 706, Dunedin, New Zealand, or to Headquarters Secretary, 12 Randolph St., Woolston, Christchurch, N. Z. The entrance fee is 2/6 (about 35c) and the magazine 6d (about 15c) per copy or 6/6 (\$1.50) a year. Membership includes handsome certificate and badge. The magazine is published monthly and gives information of stations throughout the world with good lists of Eastern and Pacific stations.

The Great Lakes Radio Club, St. Catharines, Ontario, was organized in January, 1932, has a membership of 14 which until just recently has been confined to residents of St. Catharines but is now open to all. Dues are \$1.75 per year. Tip sheets will be issued the coming season. Leo A. Shelly at the above address is Secretary.

The Transcontinental Radio DX Club, Hawthorne, N. J., with a membership of 129, has an initiation fee of 25c and dues of \$1.00 a year. A tip card is issued at least every ten days and an issue of DX news and schedules at least every two months. Ralph H. Schiller, Hawthorne, N. J., is President.

Canadian DX Relay, Box 339, Goderich, Ontario, was formed last February, has a membership of 40. The dues are \$1.75 per year which covers the weekly tip sheet from Sept. 1st to May 1st; during the other months the sheet is issued semi-monthly. Fred H. Bisset at the above address is Editor.

The New England Radio Club (membership not stated) issues a semi-monthly tip sheet. The dues are \$1.50 a year. The Club has the coop-

eration of Station WTAG. John F. O'Neill is Secretary; address 211 Hamilton St., Worcester, Mass.

The North American Radio Club, 39 Fairmount Ave., Hackensack, N. J., has 34 members with dues of 75c per year. A semi-monthly bulletin is mailed to all members in addition to a weekly tip card. G. Lansing Mood is President at the above address.

The Interstate Radio Association, Summit, N. J., organized last December reports 52 members. The yearly dues are \$1.50 which cover the weekly bulletin. Robert J. Gilchrist is Secretary-Treasurer at 603 Springfield Ave., Summit, N. J.

The Globe Circlers Radio DX Club, Edward N. Bachman, 211 Passaic St., Hackensack, N. J., was organized in September, 1932. It now has 57 members with yearly dues of one dollar. Members receive a weekly tip card and a club bulletin semi-monthly.

The Central DX Club, La Grange, Ill., was organized last November with 13 members. The initiation fee is 25c and the yearly dues 75c. Allan M. Dewey, Jr., is the Executive Secretary. Weekly cards give tips and bi-monthly papers contain other matter of interest.

All of the above clubs endeavor to have stations put on special DX programs and this, by the way, is leading to much confusion. There is a serious danger of imposing upon radio stations through duplicated effort with the possibility that more and more broadcasters will refuse to cooperate at all. In publishing the above list, RADEX has given the information as it has been received and has not attempted to act as a censor as to the worthiness or necessity of a club. However, it is evident that this duplication of effort and the birth of new clubs with few members may react upon DX in a serious way. We recommend that clubs give this matter their studious attention with a view of cooperating in the matter of arranging DX programs to avoid overlapping.

# THIS AND THAT *in the* DX World

●●● By OUR READERS

**A**LL SET for the greatest season DX has ever known. Such is our prophecy. Go over aerials and grounds now. Make sure every joint is loss-proof. Have tubes checked and replaced where necessary. Clean the condensers with a pipe cleaner. Tune up the old set and *let's go.*

## Down Under the World

We wonder what some of our skeptics would think if they were to look over some of the DX reports of the New Zealand DX Club. They make one marvel at the peculiarities of radio. As one instance, many of our readers even in New England have never been able to tune in WQDM at St. Albans, Vermont, with 100 watts and yet we find in the New Zealand Radio Times, the report of WQDM by a member in Southland, N. Z. not creating a bit of excitement.

A number of the New Zealand brethren picked up KFI when the latter station was talking to a plane in the air and heard both ends of the conversation plainly.

A member in Taumarunui reports 10AB, the 25-watter of Moose Jaw, Sask., among others he picked up and this marvelous reception won only passing notice.

Writes F. W. A. Barnett, 5 Chapman Street, Anderston, Dunedin, New Zealand: "When CFCO, Chatham, Ont., put on a special DX program on March 11th last, I was fortunate enough to win the \$5.00 which was the prize for the most distant listener. I decided that the best use this money could be put to was to renew my subscription to RADEX for I have been lost without it since my last subscription ran out.

"Since last writing you I have also been fortunate in again winning the New Zealand DX Club 'Challenge

Cup,' this time with 366 stations verified outside New Zealand. These were mostly Americans and I attribute some of my success to your wonderful book for the help it has been to me in logging American, Canadian and Mexican stations.

"As the Cup cannot be held more than two times, I am not entering this time but I now have about 446 verified stations some of which are 10-AB, KGBU, KFQD, KBPS, KABC, KDFN, XES, XEAW, YX1BC, KFYO, KGDE, KGKL, WBEO, WIAS, WIBM, WJBL, WJTL, WLAP, WLBK, WLBL, WORC, WPAD and WRBL. Altogether I have about sixty 100-watters verified and at least



The "Men About Town"—a "matchless" quartette—are heard on the Saturday Night Dancing Party with B. A. Rolfe and his Terraplane orchestra on the National network. Will Donaldson, accompanist and arranger, Phil Dewey, Jack Parker and Frank Luther. (Secret: The "Happy Bakers" of the CBS are the same group—Mondays, Wednesdays and Fridays at 8:00 p. m. EDT).

one on every channel from 540 to 1500. I have all states in the Union with the exception of Vermont, Rhode Island, New Hampshire and Porto Rico."

### Some Interesting Records

"The morning of February 17th, 1933, was the best I ever experienced," reports S. R. Lewis, Route 3, Box 688-A, Toledo, Ohio. "On that morning I heard ten of the trans-Pacific stations. They were coming in so nicely I hardly knew which ones to try to get data on. My most recent and best catches are 2CO, 3AR, 5CK, 2FC, 2YA, 5CL, 4QG, 3LO, 2BL, 4RK, 2NC, LV1, HJN, YV1BC, VONF, 10-AT, 10-BI, XEFV, KVL, CHLP, KFQD, KIEV, KPPC, CMGE, CMBR, CKUA, KRSC, CMGF, XFB, CMJK, CMBY, CHRC, KVOS, KALE, XEFB, XEJ, and CJGX. I have 56 Canadians verified 17 Cubans, 25 Mexicans, 2 Hawaiian, 2 Alaskan, 1 Porto Rican, 1 Bahaman, 3 South Americans, 1 Haitian, 2 Central Americans and 11 trans-Pacifics. Other DXers may like to know that LV1 is really broadcasting and was heard here twice. I have them verified."

"My DX for the past season was very successful," reports Dr. F. S. Taylor, 222½ N. Hastings Ave., Hastings, Nebr. "I added sixty stations increasing my log to about 325. Early in March CMAF, Havana, was tuned in for several evenings. 10-AB, Moose Jaw, was tuned in almost every Saturday night until warm weather. For an aerial I used 100 feet of 7-strand 22 gage enameled wire. This I doubled and then twisted giving me a 50-foot aerial of about a quarter inch diameter with a 30-foot lead-in. I used an Ollie Ross ground buried three feet under the down-sput from the eaves with two 5-foot lengths of galvanized pipe driven into the ground about six feet and five feet apart. This arrangement I give credit for being able to tune in so many low-powered stations from a great distance. RADEX is my radio

Bible and I read and re-read it many times."

A. L. Hynes, Clarendville, Newfoundland, believes in starting an entirely new log each year with the receipt of the first issue of RADEX in September. During the past season his reception on the b. c. band was as follows: Germany 9, England 5, France 4, Italy 4, Scotland 2, Switzerland 2, Africa 2, Spain 2, Sweden 2, Czechoslovakia 2, Ireland 1, Russia 1, Holland 1, Hungary 1, U. S. A. 132, Mexico 10, Cuba 5, Porto Rico 1, Dominican Republic 1, St. Pierre 1, Canada 23 and Newfoundland 7.

With a station in every state but one, E. B. Watson, 199 Powell Ave., Ottawa, Ontario, is anxious to log Wyoming. KDFN, Casper, signs off week-days at 11:00 p. m. EST. If he can get through the barrage just previous to that time, he may log them. We are sorry to say that KDFN shows no interest in a special DX program. With this excellent record in the states, Mr. Watson has never been able to tune in Manitoba, Saskatchewan or British Columbia. He wonders if any one in the East has succeeded in separating CKY from the "WTAR-WEAN-WMC mess on 780 kcs."

Using an Atwater Kent 1928 receiver with one aerial 100 feet long and another 320 feet long, Warren E. Winkley, P. O. Box 12, Hughson, Calif., is putting up still a third about 200 feet long in another direction. His log stands at 337 including 21 Japs, 5 Aussies, 1 Chinese, 2 Hawaiian, 25 Canadian and 16 Mexicans. "I find the best time for getting China is from 5:00-6:10 a. m. PST" he writes. "I heard them sign off for almost a week at exactly 6:07 a. m. PST."

"Just another DX fan wishing to express my appreciation to RADEX," writes Margaret Parks, Mentor, Ohio. "The DX Calendar is surely a great help. We have a 9-tube a.c. Atwater Kent Model 47 and, up to April 7th, 1933, I have had 360 stations in 47

states (I can't get Delaware) and 7 Canadian provinces. Have 10 Mexicans, Porto Rico, 4 Cubans, KGU in Hawaii, HJN Bogota, Colombia (verified twice) and 2YA (verification just received)." A very excellent record, Miss Margaret.

"Started DXing in September, 1931, and to date have 442 stations," summarizes T. R. Grosvenor, 302 S. Lorraine, Wichita, Kans., "Canada, 22; Cuba, 6; Mexico, 24; South America, 2; Japan, 2; New Zealand, 1; Porto Rico, 1. The rest are regular broadcasting stations of the U. S. except for 14 police stations. I am using a model 291 ERLA 6-tube. I would like to hear from a DXer in New Zealand and one in Australia in particular although I will write to all who have the same set I have."

Arthur E. Foerster, 1213 Bosart Ave., Indianapolis, started DXing "from scratch" last September and reports that to date he has logged 498 stations with 440 of them verified. He has 57 from the Pacific coast, 37 Canadians, 14 Cubans, 7 Mexicans, 2YA, WKAQ, YV1BC, HJN and 4QG. He has a Majestic 1933 340-B receiver. He has all the Canadian "10-" stations verified.

#### Best Time for T-P's

Frank W. Hoxie, South Orrington, Maine, finds that the best time to tune in trans-Pacifics is from September to November and from February to April, in the morning after daylight and about half or three-quarters of an hour before sunrise. He now has 443 stations on his log with two or more stations on each of the 96 channels and 46 over 2000 miles away. Mr. Hoxie has received 2YA, 2BL and four other Aussies.

From Williston, N. Dak., Herbert Deschenes has received 2YA and two stations in Hawaii, 33 in California, 17 in Canada and 10 in Mexico—256 in all. He has logged 4BH and 4BL in Australia and JOAK in Japan but has not yet received verifications. Herbert is sore at KGFJ who refuses to give the other 50 stations a chance to reach out on 1200.



*The two foremost composers of modern American music met when George Gershwin (left) and Jerome Kern appeared on the last broadcast this year on the Columbia network of "The Inside Story" with Edwin C. Hill.*

Lloyd Harrison, 130 S. Hague Ave., Columbus, Ohio, has just finished his first season at DXing with a log of 405 stations. No luck yet with any foreign stations but hoping strongly. He has a 9-tube McMillan a. c. Superhet.

Increasing his log this season from 150 to 360, George Greensward, Brampton, Ontario, has verified among other, YV1BC, CMCY, CMJK, XER, XES. On the short waves he received EAQ, GSA-GSB, I2RO, YV1BC and TI4NRH—all received on a one-tube set. He is willing to answer all letters.

#### Some DX Notes

"I picked up Radio Normandy in Fecamp, France, just before 10 p. m. on May 5th on 1325 kcs.," reports R. R. Rawstron, 296 Main St., Claremont, N. H. "It is evidently British-owned as the letter is headed and

came to me from London. This station is anxious to have other reports from the U. S."

"Here's a tip for DXers who need WBBZ for their Oklahoma log," submits Charles Meyer, Jr., 411 Blake St., St. Joseph, Mo. "This station broadcasts police information three or four times each morning just after midnight."

Woodrow Welling, Roberts, Idaho, tells us that KTFI, Twin Falls, Ida., has inaugurated a new 1000-watt transmitter which ought to be good news to those who want to add Idaho to their roster of the states.

"Grounding my aerial at the far end brought in 2YA at R-8 volume with WGN on the air," reports R. M. Ballard, Visalia, Calif.

B. Hook, 315 Delatre St., Woodstock, Ont., who says he enrolled in the National Radio Institute through their advertisement in RADEX, wants to hear from other NRI men who are DX fans. In the past year, Mr. Hook has logged 169 stations in four provinces of Canada and 37 of the states, with 113 of them verified.

#### Some Good Logs

"I received my Kolster International last Christmas," records Kent Ruth, Geary, Okla., "and began DXing about the first of February. To date I have a few over 250 stations from Canada, Cuba, Mexico and U. S."

R. D. Lefevre, P. O. Box 537, Farmersville, Texas has a Gloritone 26-P receiver with which he has made a very good record. He would like to hear from other owners of the same set.

"I have been DXing since 1926, with various makes of sets," writes Ores Zoniades, 147 Stager St., Nutley, N. J. "Since January, 1931, I have logged 521 stations on my Carlton 8-tube TRF set. I have heard 448 in the U. S., 38 in Canada, 18 in Cuba, 12 in Mexico, plus WKAQ, HIX, VPV, YV1BC, and HJN. I also have a separate log of 23 short-wave stations heard on my regular receiver. I believe I've heard 5CK

in Crystal Brook, but they were too weak to identify."

"I have a total of 561 stations in 48 states, with nearly 400 verified," reports Michael Dubiaga, 2136 West 10th St., Cleveland, Ohio. "All but Rhode Island verified, and this one will fall in a couple of days. I also need Manitoba and Newfoundland. I have 11 states complete and need only one more station in 13 others. My best catches (verified) are: KPCB, CKMO, KFPM, YV1BC, XETA, WKAQ, KICA, KGIW, KABC, KGKB, 10-BQ, CHGS, 10-BP, KTLC, KGFK, KDFN and 10-AK."

#### Best Catches

"I have been DXing here in Wichita since September 10, 1931, and have had 393 stations," reports T. R. Grosvenor, 302 S. Lorraine St., Wichita, Kans. "Have not been verifying till about a month ago when I have been sending for all new ones and those not likely to be heard this summer. Have about 65 verified, sending them so far that I only have about 25 of them back. Am using model 271 'Erla' set with 7 tubes. Best catches are 10-AB, WGNV, WWSW, KFXM, WKAQ, YV1BC and HJN."

"I found your April issue very interesting and helpful," advises Sherman Gifford, 59 Oxford St., Fairhaven, Mass. "Upon reading the 'Reception Reports' I figure I have not done so badly with 304 stations logged since February, 1932, of which there are one of 15 watts, 2 of 25, 4 of 50, and 37 of 100. I have had very little chance to sit up late at night except every other Saturday. I have a 6-tube General Motors 'Little Corporal' with a 35-foot aerial."

"Since last November, I have been a constant reader of your very interesting magazine, and it has helped me a great deal in increasing my log from 193 at that time to 268 at present, and there are about 25 replies yet to come back," remarks J. Drake, 1920 Athol St., Regina, Sask. "My best catches, both verified, are 2YA and 4QG, and I am waiting for veri-



fications from five other Australians. As I am still attending school, Friday and Saturday nights are the only ones when I can stay up to DX."

#### Has 35 2000-Milers

"I have an Edison 8-tube set, and during the past three years, have had 400 stations logged, although haven't done much real DXing until this winter," comments Frank W. Hoxie, Box 15, South Orrington, Maine. "I have had 35 stations over 2000 miles, with most distant stations verified. My best is 2YA, which I have received the past two mornings around 5:00 to 5:30 EST, and have written them for verification."

"I have a 6-tube Philco Model 89," writes Warren G. Greene, 621 Howertown Road, Catasauqua, Pa. "Although I have been DXing only since February 1st this year, and then only off and on, I have picked up 216 stations, including 12 California, one Oregon, 2 Washington, one Nevada, 5 Mexican, 14 Canadian and 2 Cuban stations. Have heard from 41 states. Among my best catches are: CHWC, CHGS, 10-BQ, KGFK, KMPC, and XEK."

"On an 8-tube Lafayette set, my brother and myself have received 138 stations during our Easter vacation of nine days," reports Robert E. Machol, 120 West 58th St., New York, N. Y., "including WEXL, 50 watts; WCAZ, 50 watts; XEA, 100 watts, Mexico; and KMPC, 500 watts. We have three other coast stations, two other Mexicans and five in Canada."

"Just a few lines to express my appreciation of RADEX," greets M. R. Billings, 785A Querbes Ave., Outremont, Que. "My old Radiola 46 wouldn't be the same without it. I have been DXing off and on for the past three years. I now have 253 stations, having logged 63 new stations this past winter. My best catches are 10-AB and YV1BC, also CMJK, on 790 kcys."

"I have a Philco 5-tube set and as it is not a superheterodyne, as far as DXing early in the evening is concerned, it is useless," writes J. C.



*Here's Grace Moore, the lovely star of the Chesterfield program, just as the camera caught her at the microphone. Trained on the opera and musical comedy stage, Miss Moore carries her expression and gestures with her into the radio studio. Each Friday on CBS net, 10:00 p. m. EDST.*

Arp, 208 Washington Blvd., Williamsport, Pa., "but after the big stations sign off it can't be beat. In four months I have logged 189 stations in 37 states, Canada, Cuba, Mexico and South America. My best catches are KTM, CMJK, KXA, WEXL, KBTM and KTFI."

#### Works Both Bands

"My log shows 543 stations, both long and short wave," advises C. C. Barga, Box 224, Mountain Lake, Minn. "Some of my best catches on the long wave are: 2YA, 4QG, 3LO, YV1BC, WNBW, KEPM HIX, 10-AT, 10-BI, 10-BQ and a number of others. On the short wave: GSA GSC, GSD, DGT, YV11BMO, YVQ, I2RO, PLV, VK2ME VK3ME FYA HKC, VE9GW in the day time with 28 watts, as clear as W8XK."

"I now have 426 stations verified,"

reports James W. Norris, 415 N. Lawndale Ave., Chicago, Ill., "from Canada, Mexico, Cuba, Hawaii and the good old U. S. A. I am using a 9-tube Philco midget and I get wonderful reception at all times and only have a 35-foot outside aerial, about 50 feet from the ground. I have 172 stations of 250 watts or less down to 10 watts in power."

"I have a log of 571 stations, 490 of which are verified," writes Carl Forestieri, 463 East 185th St., Bronx, N. Y. "I have every state in the U. S., except New Mexico, and all provinces of Canada, heard and verified. Also verified 7 in Mexico, 13 in Cuba, one in Porto Rico, one in Venezuela, one in Italy, and awaiting verification from Poste Parisien and 2YA."

"I am 15 years of age and have logged 428 stations up to March 25th," comments Henry Blanchard, Jr., Carlisle Barracks, Pa. "These are from CKOK to the 160-meter phones. Some of the better ones are KGAR, XES, 10-AK, 10-BQ, 10-BP, XEJ, WKAQ, YV1BC, VOGI, CMGF, CHGS, KGCX, 12 in California and 4 in Washington. Have every state, except Wyoming and New Mexico. My set is RCA Radiola 44 with five tubes."

"Due to school I can only DX on weekends," postcards Albert Elwell, 5 Norwood Court, Gloucester, Mass. "I now have a total of 316 stations, with only 64 verified. I have 42 states, 2 provinces in Canada, Mexico, Cuba, Newfoundland, Porto Rico, Venezuela and Colombia. My best catches are: YV1BC, HJN, KJBS, 10-BQ, VONF, WKAQ, KABC, and XES. I am now using an Atwater Kent Model 469."

Editor's Note: The Seattle Post-Intelligencer is instituting a DX column and will be glad to give publicity to DX Clubs on their programs. Address Abe Cohen, Library Dept., Seattle Post-Intelligencer, Seattle, Wash.

*The "Story of Radio" written in simple, understandable words, begins in October.*



**S**ENOR R. S. Bravo, radio and electrical engineer, to whom Mexico owes the first short wave broadcasting station ever built in that country, is the builder and operator of the second one built there—and the only one now existing—X1Q, the property of Empresa de Telefonos Ericsson. Sr. Bravo built X1Q from bottom to top. He is an enthusiastic radio fan intensely interested in promoting radio in Mexico.

His first s. w. station, which he constructed at the Mexican border, he used only for experimental purposes and for his own personal enjoyment. Station X1Q which is being operated by Sr. Bravo himself, can be found on 7040 kcs. It has 250 watts power with a wave length of 31.4 meters. X1Q also uses two other calls, one for experimental purposes and XETE for commercial uses, this last being found on 9550 kcs. The call XVAS, also on 9550 kcs., is used when the station is broadcasting messages for the Mexican Navy. Such messages, if picked up by short wave listeners, must not be reported. Our readers therefore should not try to verify the reception of the call XVAS.

# BACK AGAIN *on the* SHORT WAVES

• • • By PAGE TAYLOR, *Short Wave Editor*

LOOKING through the station lists this month readers will notice that RADEX has undergone considerable change during its three months' "rest." In addition to the list of the 100 Best Stations arranged alphabetically and by frequencies, there is an hourly tuning guide in which the time has already been converted into Greenwich Mean Time and the five time zones of the North American Continent. In the past readers have complained about our apparent partiality towards Eastern Standard Time so it is believed that this arrangement will meet with more universal favor.

For the benefit of overseas readers and persons on this continent who depend upon the short waves for their network programs, a separate list is given of the American and Canadian stations grouped according to the network programs they relay. These schedules are given in EST.

It has been said that one can expect to hear anything on short waves and we are inclined to believe it when we learn that signals on 14.6 meters have been received from the Milky Way and rebroadcast by the NBC! The signals that interest us most, however, do not originate in so remote a spot; they come up from France and England.

## Upsetting Tradition

Pontoise and GSF furnished somewhat of a surprise for many listeners when they altered their schedules to be heard here at night. For years it has been almost axiomatic that short wave reception could not be accomplished over long distances on wavelengths lower than 26 meters after dark, but with GSF on 19.81 meters and Pontoise on 25.6 meters coming in nightly for the past few months, it seems now that some of our "pet" theories need revising.

Radio Francaise Coloniale at Pon-

toise has now become a colonial station in fact. Beam antennae have been directed towards five "zones" and program material especially arranged to suit the various countries. The transmissions are as follows:

For Indo-China: 19.68 meters from 8 to 11 a. m., EST.

For Madagascar: 25.20 meters from 11:15 a. m. to 1:15 p. m.

For Soudan, Senegal and French Equatorial Africa: 25.6 meters from 3 to 5 p. m.

For South America: 25.6 meters from 6 to 9 p. m.

For North America: 25.6 meters from 9 to 11 p. m.

Information regarding this station was received from W. T. R. Morris, Jr.; Wm. Senkewich; Lanier C. Liveley; Roy E. Robinson; T. Johnson, Seaman's P. O. Box 1041, 25 South St., New York City; Michael Dubiaga of the Globe Circlers' Radio DX Club of Hackensack; Ansel Gridley of Orange, Mass., and Robert A. Roos, Jr., Burlingame, Calif.

Arthur J. Hill, 31-14 33rd St., Astoria, Long Island, reports that the announcer at the French Colonial Station reads news bulletins in English from the New York Herald at 9:30 p. m. EST, daily.

## The Empire Stations

Apparently GSB and GSF can be heard in any part of the country on their 6 to 8 p. m. schedule, while reception of the Empire programs at other times seems to be confined to certain sections. Along the Atlantic Coast and in parts of the Middle West GSF and GSG are heard from 6 to 8 a. m. and from 8:30 to 10:30 a. m. The only location reporting Daventry at midnight is Chicago, Wm. H. Reeks of that city saying that GSD and GSF are very often heard from 11:30 p. m. until 1:30 a. m., EST.

News of the Empire Stations has come to us from A. J. Hill; Ansel

Gridley; Michael Dubiaga; T. Johnson; Roy E. Robinson; W. T. R. Morris, and Willard Cook of R. F. D. No. 1, Woonsocket, R. I.

Many stations which three months ago were heard well are now either inaudible or too weak to be of program value, but despite these deficiencies a few stations, in addition to those already mentioned, are heard often. PHI, Huizen, Holland, 16.88 meters, has been quite well received in the mornings, and in the evenings XETE, EAQ, Pontoise, and at times TI4NRH have been of good signal strength. VK3ME has been the best of the Australians.

#### The Mexican

XETE is a new station heard daily on 31.23 meters from 2:30 to 5 p. m. and 6:30 to midnight, EST. This station has a woman announcer who breaks into the program at various times, speaking in Spanish and very good English. She asks that . . . "listeners in the United States, Canada and throughout the world, please send their reports to the Ericsson Telephone Co., P. O. Box 1396, Mexico City, Mexico."

XETE tends to remind one of that other popular Mexican station XEW, which has been missed for a long time. Some of the most beautiful programs ever heard on short waves were transmitted from XEW and XETE seems to be continuing the good work of proving to us that Mexican stations can broadcast good programs if they wish. XETE signs off each night by playing Rudolph Friml's "L'amour, Toujours, L'amour." This is one of the best stations at this time and should be heard by all Radexers. We are grateful for reports from S. H. Lawrence, 308 Booth St., Anamosa, Iowa, who says that XETE relays the programs of XETI; E. N. Luken, Crooks, S. Dak., who says they relay XETR, and Roy E. Robinson.

#### An Old Reliable

EAQ continues to be one of the best and most consistent stations

heard. Miss Carrie Alice Brinkerhoff, 317 Clinton Ave., Oak Park, Ill., writes, "I have had Madrid, Spain, EAQ. I understand enough Spanish to think I know what they are saying. Once I heard them giving world news. Most interesting of all was a comic opera from the theater in Madrid, loud and clear." Others reporting this station are Lanier C. Lively, A. J. Hill, Ansel Gridley, T. Johnson, and Willard Cook.

TI4NRH of Heredia, Costa Rica, has advanced its schedule an hour, transmitting now from 6:30 to 7:30 p. m., EST, on 31 meters. The signal has been quite good, about R7 at times, and we believe that it is now quite close to 100 per cent modulated because the quality has improved considerably, making reception much better than it was three months ago.

#### Reports Wanted

Sr. Roberto Baena V. requests reports from readers of this magazine regarding reception of his station HJ4ABB, "Radio Manizales," on 42 meters. HJ4ABB works on Wednesdays from 8 to 10 p. m., Saturdays from 11 p. m. to midnight, and on Sundays from 3 to 5 p. m., EST. The address is Apartado 76, Manizales, Colombia. Sr. Baena announces in fine English and speaks personally to each listener who reports his transmissions. His theme song is "Just a Gigolo."

Richard Heckscher, 1558 Massachusetts Ave., Cambridge, Mass., postcards, "I wish to report the reception and positive identification of a station which, as far as I can ascertain, appears in no current list. This station is HC2RL, Guayaquil, Ecuador. I received it on 6605 kc/s between 10 and 11 p. m. on a Wednesday evening. This was a broadcasting station and well received here in Boston."

Several different schedules have been seen for YV3BC of Caracas, Venezuela, but the one given in the

lists is believed to be correct. The station officials advise us that on the 10th day of each month they broadcast a special program for the Chicago Short Wave Radio Club, from 9:30 p. m. to midnight, EST. The transmitting plant is located at Las Barrancas, while the station is addressed at Messrs. Degwitz and Siblesz, Passaje Ramella, Sur 3, No. 92, Caracas, Venezuela. The frequencies available are 6080, 6134 and 9510 kc/s, but so far the only one which has been heard is 9510 or 31.52 meters.

### Listeners Can Aid

In "World-Radio" for May 19 Mr. Noel Ashbridge, B. Sc., the Chief Engineer of the British Broadcasting Corporation, has an article entitled "Six Months of Empire Broadcasting," in which he strongly stresses the necessity of radio listeners sending regular reports to stations. It is true that many persons only write once to a radio station for the purpose of receiving a verification, without thinking that a continuous stream of such reports is of the utmost value to engineers in determining schedules, wavelengths, antennae, etc., to be used to obtain maximum results in transmission. There follow a few quotations from this article:

"First of all, may I emphasize the great value to us of these reports, in fact, we can do little at this end towards improving the service unless we get a steady stream of reports and criticisms.

"I hope listeners will understand that we do not consider we have made any more than a beginning with this service, . . . and that we have every intention of continuing to experiment until conditions in every zone are greatly improved. In the meanwhile, please let us have as many reports as possible."

Therefore, let us all write more often to the broadcasters (except those marked by an asterisk in the station lists). The small amount of time and effort it takes will be re-

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paid many times in the improved reception that is sure to result.

### A Reception Scale

A few readers use the Q and R codes in reporting volume and quality of reception. The codes are easily learned and are very useful. The R (Audibility) Code is the system used to describe the volume of a broadcast, from the weakest 'phone signal to full loudspeaker volume.

- R1, The faintest signal that can be heard on headphones.
- R2, A weak headphone signal.
- R3, Audible but only partially readable.
- R4, A fair signal.
- R5, A good headphone or a weak speaker signal.
- R6, Fair speaker volume.
- R7, Strong volume.
- R8, Very strong volume.
- R9, Extremely strong, maximum volume.

The QSA (Readability) Code de-

scribes the clearness, or understandability, of a signal.

QSA1, Unintelligible.

QSA2, Signals which can be understood only now and then.

QSA3, Poor signals, understood with difficulty.

QSA4, Good signals, quite easily understood.

QSA5, Perfectly understandable.

Understandability need not necessarily be dependent upon audibility; as an example, a station can be heard 50 feet away from a speaker without being at all intelligible (QSA1, R9), or, it may be possible to clearly understand every word of a transmission which is just fairly audible in the headphones (QSA5, R4).

These descriptions can be carried further by employing a code to describe atmospheric (static) and fading, by the letters N, X, R or S. The letter N means NIX . . . that is, no fading, or, no static, was present.

Example: Pontoise, QSA4, R7/S/N.

In the first bracket after the R symbol, fading is indicated, and in the last bracket, atmospheric. Hence, Pontoise, QSA4, R7/S/N, means that the station was heard quite clearly (QSA4), with good volume (R7), slight fading (/S) and no static (/NIX).

S, Slight fading,

SS, Deep fading.

SSS, Complete fade-out.

R, Rapid fading.

N, No fading.

X, Slight static.

XX, Rather bad static.

XXX, Very heavy static.

N, No static.

YV1BC, QSA1, R7/R/XX means that YV1BC was bothered by rapid fading and bad static, both of which combined to make the program unintelligible, QSA1, in spite of the very good volume, R7.

The QSA and R Codes are universally understood and may be used in writing to foreign stations to describe their transmissions. The other codes for static and fading are not

in general use, being confined principally to the British Isles.

### Using a Graph

"I have been using a graph mentioned in May RADEX and find that this is one of the easiest ways to locate different stations; the bigger the chart the better the results," comments Sergeant Wm. Senkewich, Co. F, 16th Infantry, Fort Jay, N. Y. "I am owner of Silver-Marshall 726 SW and have quite a few stations recorded outside the Continent. It takes a lot of patience and time to get used to the peculiarities of the s. w. but that makes DX interesting.

"I have veries from HBP, 12RO, EAQ, G5SW, DJD, Radio Coloniale, etc. DJC on 49.83 m. is good DX; the verification states that they announce programs for the coming week at 1900 daily (2:00 p. m., EST). I would like to correspond with other owners of Silver-Marshall 726 SW and hear what luck they have."

"Now for some comments on some of my best stations," reports Francis Worrell, 2 Hillside Court, Ann Arbor, Mich. "Pontoise has lately been broadcasting till 10:30 p. m. From 8:15 to 8:30 they give the news in English. They announce as 'This is the French Government Station on 25.6 meters . . .' They sign off, as usual, with the Marseillaise. GSB, etc., send a neatly engraved card acknowledging reports without stating specifically that any particular station is verified, and also send complimentary copies of two very good magazines. XETE is a new station in Mexico City. It operates on 31.23 meters, 9,600 kc/s. It comes in with quite good volume.

### Luck in Location

"I cannot understand why the more fortunate DXers take such a condescending attitude towards the less fortunate. They don't seem to realize that some people aren't blessed with a good location. Look at my record, for instance. While I have little trouble with European

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stations, I cannot even get the slightest peep from Australia, and I have only gotten two from South America. My location just happens to be poor for reception of these stations. I wish you would print the general idea of what I am saying for the benefit of the people I am talking about. Now that I have let off steam I will sign off."

We wonder if Mr. Worrell considers himself among the "less fortunate." His log of stations includes DJA, B. C, and D, EAQ, GCB, GCW, HBL, HBP, 2RO, LSN and X, Pontoise, GSA, GSB, XETE, ZFB, VE9DR, 9GW, 9JR and 18 stations in the U. S. A., all received, he says, "in the last few months."

If any DXer looks down upon his less fortunate comrades with pity or contempt, he is unjustified in doing so. We do not think there are many such fans, though; we have never heard of a high-hat DXer. Mr. Worrell will add to his list of South American stations as winter approaches, and if he will tune diligently twice a week for VK3ME he should hear this Australian before another month passes. For South Americans we suggest that he concentrate on PRADO, HJ4ABB, YV1BC and YV3BC at the times given in our lists. TI4NRH is a very good catch that should not evade his receiver for long.

### Some Tuning Notes

"I am giving you some data on

stations heard nightly here," writes W. T. R. Morris, Jr., 3219 Garland Ave., Richmond, Va. "DJC, Zeesen, Germany, 7 to 9:05 p. m. Different nights he uses different languages. Those heard have been French, Spanish and English; the latter is used more often. Radio Coloniale also uses different languages different nights. I am mentioning these stations as they are heard very loud and are very dependable."

From Lanier C. Lively, 1026 Madison St., Charleston, W. Va.: "I have obtained a 7-tube Airline All-wave set and it sure works great. I hardly know what kind of reception it gives on the broadcast band for I never give it a chance. In the five nights I have had it I have heard the following list of short wave stations: VE9GW, YV1BC, EAQ, Pontoise, DJD, 12RO, and GBS. GBS must have poor modulation or something, for half of the time I cannot understand what he says. I know I have not much of a log, but I am right proud of it just the same."

Mr. Lively's "Poor modulation" on GBS was only inverted speech, which is used to insure secrecy to the subscribers using the trans-Atlantic telephone service.

### Additional Police

Two readers report new police transmitters. Benjamin Stein, 435 Aisquith St., Baltimore, Md., says that construction of Baltimore's new

station WPFH is completed. WPFH transmits on 2414 kc/s.

W. S. Follis, Stock Yards Station, Sioux City, Iowa, sends a clipping from the Sioux City Journal in which the ceremonies marking the opening of the Iowa State Police station KGHO at Des Moines are described. The new station works on the 1534 kc/s frequency with 400 watts power and serves about 50 receivers installed throughout the State.

"I get VK3ME Melbourne every Wednesday and Saturday and VK2ME Sunday a. m.," advises Roy E. Robinson, 133 Mitchell St., Pier, R. I. "The verification from TI4NRH is very elaborate and worth having. I get W8XK very good on 24 meters and wonder if anyone else hears them there or if that is a harmonic."

Yes, 24 meters is the second harmonic of W8XK's 48.83 meter wavelength.

Twenty foreign short wave stations are included in the log of Ansel Gridley, a 13-year-old boy of Orange, Mass. This year Ansel had the opportunity of comparing reception in his home State with conditions in Orlando, Florida, and so far has been unable to hear Australia and Asia in either location. His best stations are TI4NRH and PHI, and in the 20 meter amateur band he has logged YV2AN, in Maracay, Venezuela.

TIRCA (formerly TITR) San Jose, Costa Rica, advise us they expect to be on the short waves early in August with 250 watts. Tune for them at about 48 meters (6.246 megacycles).

A time schedule for VK3ME and VK2ME received by W. T. R. Morris, Jr., 3219 Garland Ave., Richmond, Va., gives their hours on the air for September and October as follows:  
3:30 p. m. Sunday to 5:30 (0530 to 0730 GMT)  
7:30 p. m. Sunday to 11:30 (0930 to 1330 GMT)  
12:30 a. m. Monday to 2:30 a. m. (1430 to 1630 GMT)

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91 meters signs off with the national anthem?" asks L. S. Logan, Woodlyn, Delaware Co., Penna. "It came on the air about one o'clock EST."

## Unique Listener Service

**R**EADERS of this magazine who have experienced trouble in getting verifications or information from broadcasting stations in Mexico, will be interested in a most unique service which has been inaugurated there for their benefit. Under the name "Service for the Radio Club," a bureau has been formed for handling the foreign mail of the leading stations of Mexico.

Many of the broadcasters of Mexico are illy-equipped to handle the fan mail and verifications and they are now referring all such communications to the Club for reply. DX fans may send their reports of reception of any of the Mexican stations direct to the Club which will verify the report and send verification to the listener. A dime should be enclosed with each report.

The Club will also arrange special DX programs by Mexican stations for any club in the U. S., the charge being ten cents per member. Reports of reception of such special programs will then be verified without charge for the members of the club sponsoring the program. Programs from

*(Continued on page 34)*



## INTERFERENCE *on the* West Coast

**A**S THOUGH the regular amount of interference were not enough, California has this summer been troubled by an entirely new sort. "The worst menace to radio reception in Southern California," writes Edwin F. Dreher, La Mesa, Calif., "are the two Tijuana stations, XEFD and XEAE. These two stations are about fifteen miles from San Diego and are entirely dependent upon California advertising for their existence. This includes all the contemptible quackery such as fortune-tellers, 'doctors,' chiropractors, herbalists, stock promotions, etc. etc.

"XEAE came on the air about six weeks ago with decidedly strong power. I understand that the station was set up by Los Angeles interests who have seen in it the same possibility for evading the radio act that others have along the Rio Grande, XEFD not only interferes with XER but blocks reception of WJR, WJZ, WBBM-KFAB and KTM. XEAW, with a power seemingly stronger than XEFD has cut out KFWI, KOIN, KFWB, KJR and KDKA. XER, with its exceedingly strong power, has for a long time interfered with WGN, WSB and WJR.

"The border situation casts its influence as far north as Oregon, Idaho, Wyoming, Nebraska, Iowa, and on a south-easterly line, to the Carolinas. These border stations set up by Americans mean nothing to the Mexicans who speak Spanish. Very few of them understand English and those who do have always relied on such American stations as WOAI, WFAA, WBAP and KFI.

### The "City of Panama"

"A new innovation has recently become evident off the Southern California coast, when a new 'station' came on the air, broadcasting on 800 to 815 keys. The call letters were announced between each phonograph

record as 'RXKR, S. S. City of Panama' in quite a professional style. This floating station blocked all reception from WFAA, WBAP, WCCO, WHAS, KOA and KGO with what seemed to be about 5000 watts power."

The State Department at Washington protested this interference to the Republic of Panama which agreed to cancel the ship's registration under the laws of Panama but reports come to us that the station is still broadcasting. This boat seems to be a floating bar-room that sails nightly from Santa Monica to the 12-mile limit where the power of this government is unable to stop bootlegging of either liquors or radio. In its attempt to violate the laws of the country it is being supported by the "business interests" of some of the West Coast cities and is said to have one account that pays it \$1500 monthly. Most of these accounts seem to be from Los Angeles. The vessel is evidently leased by Americans solely in an attempt to evade the laws of their country and its registry under the laws of Panama is but a subterfuge.

Homer G. Gosney, Redondo Beach, Calif., advises us that those DXers who wish to verify reception of this ship should address Cecil M. Newcorn, General Manager, Panama Broadcasting Co., 1646 West Adams Blvd., Los Angeles. Their signals have been picked up from New York state to the Hawaiian Islands.

Let us devoutly hope that the conference now in session at Mexico City will bring not only the border stations but floating outlaws under some control. It is growing evident that the broadcast band must be widened perhaps at each end, say from 500 to 1550 kcs. It is also evident that the U. S. must surrender some of its exclusive channels to Canada, Mexico and Central America.

# What's on the Short Waves?

An hourly tuning guide for short wave broadcasting stations. Some stations are given which are not mentioned in the list of the 100 Best Stations as they are not received regularly, but are given here so readers may try them.

GMT am	AST am	EST am	CST pm	MST pm	PST pm						
5:00	1:00	12:00	11:00	10:00	9:00	21.451	13.93	W8XK			
9.510	31.53	GSB				14.102	21.26	YV2AM (Sunday)			
11.750	25.51	GSD						(Start a half hour later)			
15.140	19.81	GSF				9.510	31.53	GSB			
6.140	48.83	W8XK (for 30 minutes)				9.585	31.28	GSC			
6.100	49.15	W9XF				11.750	25.51	GSD			
		(Starts half hour later)				11.865	25.27	GSE			
9.585	31.28	VK2ME (Sunday)				17.770	16.88	GSG			
GMT am	AST am	EST am	CST am	MST pm	PST pm	GMT pm	AST am	EST am	CST am	MST am	PST am
6:00	2:00	1:00	12:00	11:00	10:00	14:00	10:00	9:00	8:00	7:00	6:00
9.510	31.53	GSB (for 30 minutes)				15.190	19.73	DJB			
11.750	25.51	GSD (for 30 minutes)				9.510	31.53	GSB			
15.140	19.81	GSF (for 30 minutes)				9.585	31.28	GSC			
9.585	31.28	VK2ME (Sunday)				11.750	25.51	GSD			
6.100	49.15	W9XF				11.865	25.27	GSE			
						17.770	16.88	GSG			
						11.725	25.57	PHI			
<b>GMT am</b>	<b>AST am</b>	<b>EST am</b>	<b>CST am</b>	<b>MST am</b>	<b>PST pm</b>	17.761	16.88	PHI (Except Tuesday, Wednesday)			
7:00	3:00	2:00	1:00	12:00	11:00	6.005	49.93	VE9DR (Except Sunday)			
9.585	31.28	VK2ME (Sunday, for 30 minutes)				6.092	49.22	VE9GW (Monday, Thursday)			
<b>GMT am</b>	<b>AST am</b>	<b>EST am</b>	<b>CST am</b>	<b>MST am</b>	<b>PST am</b>	6.092	49.22	VE9GW (Monday, Thursday)			
8:00	4:00	3:00	2:00	1:00	12:00	9.560	31.36	W1XAZ			
4.273	70.65	RV15				21.451	13.93	W8XK			
						14.102	21.26	YV2AM (Sunday)			
								(Starts a half hour later)			
<b>GMT am</b>	<b>AST am</b>	<b>EST am</b>	<b>CST am</b>	<b>MST am</b>	<b>PST am</b>	9.585	31.28	VK2ME (Sunday)			
9:00	5:00	4:00	3:00	2:00	1:00						
4.273	70.65	RV15									
9.585	31.28	VK2ME									
		(Starts half hour later)									
9.585	31.28	GSC				<b>GMT pm</b>	<b>AST am</b>	<b>EST am</b>	<b>CST am</b>	<b>MST am</b>	<b>PST am</b>
						15:00	11:00	10:00	9:00	8:00	7:00
<b>GMT am</b>	<b>AST am</b>	<b>EST am</b>	<b>CST am</b>	<b>MST am</b>	<b>PST am</b>	15.190	19.73	DJB			
10:00	6:00	5:00	4:00	3:00	2:00	11.753	25.51	DJD			
9.585	31.28	GSC				9.510	31.53	GSB			
15.120	19.83	HVJ (for 15 minutes)				9.585	31.28	GSC			
4.273	70.65	RV15				11.750	25.51	GSD			
9.585	31.28	VK2ME (Sunday)				11.865	25.27	GSE			
9.503	31.55	VK3ME (Saturday, Wednesday)				17.770	16.88	GSG			
						15.120	19.83	HVJ (for 30 minutes)			
<b>GMT am</b>	<b>AST am</b>	<b>EST am</b>	<b>CST am</b>	<b>MST am</b>	<b>PST am</b>	15.234	19.68	Pontoise			
11:00	7:00	6:00	5:00	4:00	3:00	6.005	49.93	VE9DR (Except Sunday)			
9.585	31.28	GSC (for 30 minutes)				6.092	49.22	VE9GW (Monday, Thursday)			
15.140	19.81	GSF				9.585	31.28	VK2ME (Sunday)			
17.770	16.88	GSG				9.560	31.36	W1XAZ			
4.273	70.65	RV15				21.451	13.93	W8XK			
9.585	31.28	VK2ME (Sunday)				15.204	19.72	W8XK			
9.503	31.55	VK3ME (Saturday, Wednesday)				14.102	21.26	YV2AM (Sunday)			
9.560	31.36	W1XAZ						(Starts half hour later)			
		(Starts half hour later)				11.174	26.83	CT3AQ (Sunday)			
14.102	21.26	YV2AM (Sunday)				<b>GMT pm</b>	<b>AST pm</b>	<b>EST am</b>	<b>CST am</b>	<b>MST am</b>	<b>PST am</b>
						16:00	12:00	11:00	10:00	9:00	8:00
<b>GMT pm</b>	<b>AST am</b>	<b>EST am</b>	<b>CST am</b>	<b>MST am</b>	<b>PST am</b>	11.174	26.83	CT3AQ (Sunday)			
12:00	8:00	7:00	6:00	5:00	4:00	15.190	19.73	DJB			
15.140	19.81	GSF				11.753	25.51	DJD			
17.770	16.88	GSG				9.510	31.53	GSB			
4.273	70.65	RV15				9.585	31.28	GSC			
9.585	31.28	VK2ME (Sunday)				11.750	25.51	GSD			
9.560	31.36	W1XAZ				11.865	25.27	GSE			
21.451	13.93	W8XK				17.770	16.88	GSG			
14.102	21.26	YV2AM (Sunday)				6.005	49.93	VE9DR (Except Sunday)			
		(Start a half hour later)				6.092	49.22	VE9GW (Sun., Mon., Thurs.)			
7.207	41.60	EAR58 (Sunday)				9.585	31.28	VK2ME (Sunday for 30 minutes)			
12.820	23.38	Rabat (Sunday)				6.060	49.48	VQ7LO			
6.005	49.93	VE9DR (Except Sunday)				9.560	31.36	W1XAZ			
<b>GMT pm</b>	<b>AST am</b>	<b>EST am</b>	<b>CST am</b>	<b>MST am</b>	<b>PST am</b>	15.258	19.65	W2XE			
13:00	9:00	8:00	7:00	6:00	5:00	9.585	31.28	W3XAU			
15.190	19.73	DJB				21.451	13.93	W8XK			
7.207	41.60	EAR58 (Sunday)				15.204	19.72	W8XK			
11.725	25.57	PHI				14.102	21.26	YV2AM (Sunday for 30 minutes)			
17.761	16.88	PHI (Except Tuesday, Wednesday)						(Start 30 minutes later)			
15.234	19.68	Pontoise				6.272	47.80	H11A			
12.820	23.38	Rabat (Sunday)				11.800	25.40	I2RO			
4.273	70.65	RV15				11.898	25.20	Pontoise			
9.488	31.60	SRJ (Wednesday)				<b>GMT pm</b>	<b>AST pm</b>	<b>EST pm</b>	<b>CST am</b>	<b>MST am</b>	<b>PST am</b>
6.005	49.93	VE9DR (Except Sunday)				17:00	1:00	12:00	11:00	10:00	9:00
6.092	49.22	VE9GW (Monday, Thursday)				15.190	19.73	DJB			
9.585	31.28	VK2ME (Sunday for 30 minutes)				11.753	25.51	DJD			
9.560	31.36	W1XAZ				9.510	31.53	GSB (for 30 minutes)			

9.585	31.28	GSC (for 30 minutes)
11.865	25.27	GSE (for 30 minutes)
17.770	16.88	GSQ (for 30 minutes)
6.272	47.80	H1IA
11.800	25.40	I2RO (for 30 minutes)
11.898	25.20	Pontoise
6.005	49.93	VE9DR
6.092	49.22	VE9GW (Sunday)
11.710	25.60	VE9JR
6.060	49.48	VQ7LO
9.560	31.36	W1XAZ
15.258	19.65	W2XE
9.585	31.28	W3XAU
21.451	13.93	W8XX
15.204	19.72	W8XX
(Starts a half hour later)		
17.772	16.87	W3XAL (Except Saturday)
<b>GMT pm</b>	<b>AST pm</b>	<b>EST pm CST pm MST am PST am</b>
<b>18:00</b>	<b>2:00</b>	<b>1:00 12:00 11:00 10:00</b>
15.190	19.73	DJB
11.753	25.51	DJD
9.862	30.40	EAQ (Saturday)
6.050	49.56	GSA
9.510	31.53	GSB
9.585	31.28	GSC
15.140	19.81	GSF
6.272	47.80	H1IA
11.800	25.40	I2RO
9.488	31.60	SRI (Tuesday)
6.005	49.93	VE9DR
6.092	49.22	VE9GW (Sunday)
11.710	25.60	VE9JR
6.060	49.48	VQ7LO
9.560	31.36	W1XAZ
17.772	16.87	W3XAL (Except Saturday)
9.585	31.28	W3XAU
21.451	13.93	W8XX
15.204	19.72	W8XX
6.100	49.15	W9XF (Sunday)
<b>GMT pm</b>	<b>AST pm</b>	<b>EST pm CST pm MST pm PST am</b>
<b>19:00</b>	<b>3:00</b>	<b>2:00 1:00 12:00 11:00</b>
15.190	19.73	DJB
11.753	25.51	DJD
9.862	30.40	EAQ (Saturday)
6.050	49.56	GSA
9.510	31.53	GSB
9.585	31.28	GSC
15.140	19.81	GSF
6.272	47.80	H1IA
11.800	25.40	I2RO
9.520	31.49	OXY
9.488	31.60	SRI (Tuesday)
6.005	49.93	VE9DR
6.092	49.22	VE9GW (Sunday)
11.710	25.60	VE9JR
9.560	31.36	W1XAZ
15.320	19.57	W2XAD (Sun., Mon., Wed., Fri.)
17.772	16.87	W3XAL (Except Saturday)
9.585	31.28	W3XAU
15.204	19.72	W8XX
6.100	49.15	W9XF (Sunday for 30 minutes)
(Start a half hour later)		
8.218	36.36	Rabat (Sunday)
9.592	31.25	XETE
<b>GMT pm</b>	<b>AST pm</b>	<b>EST pm CST pm MST pm PST pm</b>
<b>20:00</b>	<b>4:00</b>	<b>3:00 2:00 1:00 12:00</b>
9.552	31.38	DJA
15.190	19.73	DJB
11.753	25.51	DJD
6.050	49.56	GSA
9.510	31.53	GSB
9.585	31.28	GSC
15.140	19.81	GSF
6.272	47.80	H1IA
7.139	42.00	HJ4ABB (Sunday)
11.800	25.40	I2RO
9.520	31.49	OXY
11.711	25.60	Pontoise
8.218	36.36	Rabat (Sunday)
5.996	50.00	RV59
6.005	49.93	VE9DR
6.092	49.22	VE9GW (Sunday)
11.710	25.60	VE9JR

9.560	31.36	W1XAZ
15.320	19.57	W2XAD (Sunday)
11.823	25.36	W2XE
17.772	16.87	W3XAL (Except Saturday)
6.096	49.17	W3XAL (Saturday)
9.585	31.28	W3XAU
15.204	19.72	W8XX
6.076	49.34	W9XAA
9.592	31.25	XETE
<b>GMT pm</b>	<b>AST pm</b>	<b>EST pm CST pm MST pm PST pm</b>
<b>21:00</b>	<b>5:00</b>	<b>4:00 3:00 2:00 1:00</b>
9.552	31.38	DJA
15.190	19.73	DJB (for 30 minutes)
11.753	25.51	DJD
6.050	49.56	GSA
9.510	31.53	GSB (for 30 minutes)
9.585	31.28	GSC
15.140	19.81	GSF (for 30 minutes)
6.272	47.80	H1IA
7.139	42.00	HJ4ABB (Sunday)
11.800	25.40	I2RO
9.520	31.49	OXY
11.711	25.60	Pontoise
8.218	36.36	Rabat (Sunday)
5.996	50.00	RV59
6.005	49.93	VE9DR
6.092	49.22	VE9GW (Thurs., Fri., Sat., Sun.)
11.710	25.60	VE9JR
9.560	31.36	W1XAZ
11.823	25.36	W2XE
17.772	16.87	W3XAL (Except Saturday)
6.096	49.17	W3XAL (Saturday)
9.585	31.28	W3XAU
15.204	19.72	W8XX (for 15 minutes)
6.076	49.34	W9XAA
9.592	31.25	XETE
(Start a half hour later)		
9.592	31.25	CT1AA (Tuesday, Friday)
11.870	25.25	W8XX
6.140	48.83	W8XX
6.100	49.15	W9XF (Except Saturday)
<b>GMT pm</b>	<b>AST pm</b>	<b>EST pm CST pm MST pm PST pm</b>
<b>22:00</b>	<b>6:00</b>	<b>5:00 4:00 3:00 2:00</b>
9.592	31.25	CT1AA (Tuesday, Friday)
11.174	26.83	CT3AQ (Tuesday, Thursday)
9.552	31.38	DJA
11.753	25.51	DJD
7.207	41.60	EAR58
6.050	49.56	GSA (for 30 minutes)
9.585	31.28	GSC (for 30 minutes)
9.580	31.30	HBL (for 45 minutes) Sunday
7.872	38.47	HBP (for 45 minutes) Sunday
6.272	47.80	H1IA
11.800	25.40	I2RO
9.520	31.49	OXY
5.996	50.00	RV59
6.005	49.93	VE9DR
6.092	49.22	VE9GW (Thur., Fri., Sat., Sun.)
6.121	48.98	VE9HX
11.710	25.60	VE9JR
9.560	31.36	W1XAZ
17.772	16.87	W3XAL (Except Saturday)
6.096	49.17	W3XAL (Saturday)
11.870	25.25	W8XX
6.140	48.83	W8XX
6.076	49.34	W9XAA
6.100	49.15	W9XF (Except Saturday)
(Starts 15 minutes past the hour)		
6.110	49.00	YV1BC
(Starts 30 minutes past the hour)		
9.862	30.40	EAQ
<b>GMT pm</b>	<b>AST pm</b>	<b>EST pm CST pm MST pm PST pm</b>
<b>23:00</b>	<b>7:00</b>	<b>6:00 5:00 4:00 3:00</b>
9.592	31.25	CT1AA (Tuesday, Friday)
11.174	26.83	CT3AQ (Tues., Thurs. for 30 min.)
9.552	31.38	DJA
9.862	30.40	EAQ
7.207	41.60	EAR58 (for 30 minutes)
6.050	49.56	GSA
9.510	31.53	GSB
9.585	31.28	GSC
15.140	19.81	GSF
6.272	47.80	H1IA (for 30 minutes)

9.520 31 49 OXY (for 30 minutes)  
 11.711 25.60 Pontoise  
 6.005 49.93 VE9DR  
 6.092 49.22 VE9GW (Thur., Fri., Sat., Sun.)  
 6.121 48.98 VE9HX  
 11.710 25.60 VE9JR  
 11.794 25.42 W1XAL  
 9.560 31.36 W1XAZ  
 6.116 49.02 W2XE  
 17.772 16.87 W3XAL (for 30 minutes)  
 6.096 49.17 W3XAL (Saturday)  
 11.870 25.25 W8XK  
 6.140 48.83 W8XK  
 6.100 49.15 W9XF (Except Saturday)  
 6.110 49.00 YV1BC

(Start a half hour later)  
 9.670 31.00 TI4NRH  
 9.592 31.25 XETE

GMT am	AST pm	EST pm	CST pm	MST pm	PST pm
00:00	8:00	7:00	6:00	5:00	4:00

9.552 31.28 DJA  
 6.017 49.83 DJC  
 6.050 49.56 GSA  
 9.510 31.53 GSB  
 9.585 31.28 GSC  
 15.140 19.81 GSF  
 11.711 25.60 Pontoise  
 9.670 31.00 TI4NRH (for 30 minutes)  
 6.005 49.93 VE9DR  
 6.092 49.22 VE9GW (Thurs., Fri., Sat., Sun.)  
 6.121 48.98 VE9HX  
 9.560 31.36 W1XAZ  
 9.530 31.46 W2XAF  
 6.116 49.02 W2XE  
 6.096 49.17 W3XAL (Saturday)  
 6.057 49.50 W3XAU  
 11.870 25.25 W8XK  
 6.140 48.83 W8XK  
 6.100 49.15 W9XF (Except Sat. and Sun.)  
 9.592 31.25 XETE  
 6.110 49.00 YV1BC  
 9.500 31.56 YV3BC

(Start 30 minutes later)  
 8.103 37.00 HCJB (Except Monday)  
 5.879 51.00 HJ2ABA  
 5.879 51.00 HJ4ABE (Mon., Wed., Fri.)

GMT am	AST pm	EST pm	CST pm	MST pm	PST pm
1:00	9:00	8:00	7:00	6:00	5:00

9.552 31.28 DJA  
 6.017 49.83 DJC  
 8.103 37.00 HCJB (Except Monday)  
 5.793 51.75 HJ1ABB  
 5.879 51.00 HJ2ABA  
 7.139 42.00 HJ4ABB (Wednesday)  
 5.879 51.00 HJ4ABE (Mon., Wed., Fri.)  
 11.711 25.60 Pontoise  
 6.075 49.39 VE9CS  
 6.005 49.93 VE9DR  
 6.092 49.22 VE9GW (Saturday, Sunday)  
 6.121 48.98 VE9HX  
 6.040 49.64 W1XAL  
 9.560 31.36 W1XAZ  
 9.530 31.46 W2XAF  
 6.116 49.02 W2XE  
 6.096 49.17 W3XAL (Saturday)  
 6.057 49.50 W3XAU  
 11.870 25.25 W8XK  
 6.140 48.83 W8XK  
 9.592 31.25 XETE  
 6.110 49.00 YV1BC  
 9.500 31.56 YV3BC

GMT am	AST pm	EST pm	CST pm	MST pm	PST pm
2:00	10:00	9:00	8:00	7:00	6:00

8.103 37.00 HCJB (for 45 minutes)  
 5.793 51.75 HJ1ABB  
 5.879 51.00 HJ2ABA  
 7.402 40.50 HJ3ABD  
 7.139 42.00 HJ4ABB (Wednesday)  
 5.879 51.00 HJ4ABE (Mon., Wed., Fri. for 30 min.)  
 11.711 25.60 Pontoise  
 6.618 45.31 PRADO (Thursday)  
 6.075 49.39 VE9CS

6.005 49.93 VE9DR  
 6.092 49.22 VE9GW (Saturday)  
 6.121 48.98 VE9HX  
 6.040 49.64 W1XAL  
 9.560 31.36 W1XAZ  
 9.530 31.46 W2XAF  
 6.116 49.02 W2XE  
 6.096 49.17 W3XAL (Saturday)  
 6.057 49.50 W3XAU  
 11.870 25.25 W8XK  
 6.140 48.83 W8XK  
 6.100 49.15 W9XF (Except Saturday)  
 9.592 31.25 XETE  
 6.110 49.00 YV1BC  
 9.500 31.56 W3BC

GMT am	AST pm	EST pm	CST pm	MST pm	PST pm
3:00	11:00	10:00	9:00	8:00	7:00

7.402 40.50 HJ3ABD  
 11.711 25.60 Pontoise  
 6.618 45.31 PRADO (Thursday)  
 6.005 49.93 VE9DR  
 6.092 49.22 VE9GW (Saturday)  
 6.040 49.64 W1XAL (for 30 minutes)  
 9.560 31.36 W1XAZ  
 6.116 49.02 W2XE  
 6.096 49.17 W3XAL (Saturday)  
 6.057 49.50 W3XAU  
 6.140 48.83 W8XK  
 6.100 49.15 W9XF (Except Saturday)  
 9.592 31.25 XETE

GMT am	AST pm	EST pm	CST pm	MST pm	PST pm
4:00	12:00	11:00	10:00	9:00	8:00

7.402 40.50 HJ3ABD (for 15 minutes)  
 7.139 42.00 HJ4ABB (Saturday)  
 6.005 49.93 VE9DR (Except Sunday)  
 6.092 49.22 VE9GW (Saturday)  
 9.560 31.36 W1XAZ  
 6.096 49.17 W3XAL (Saturday)  
 6.057 49.50 W3XAU  
 6.140 48.83 W8XK  
 6.100 49.15 W9XF (Except Saturday)  
 9.592 31.25 XETE

(Starts 30 minutes past the hour)  
 9.510 31.53 GSB  
 11.750 25.51 GSD  
 15.140 19.81 GSF

## A Mexican Listener Service

(Continued from page 30)

the short wave station X1Q will also be arranged upon request.

The general manager of the Service for the Radio Club is Senor Alejandro Galindo who is the representative of RADEX in Mexico and attended for us the International Radio Conference in Mexico City in July. The address of the Club is Av. I. la Catolica 24, Rooms 301-304, Mexico City.

The Service for the Radio Club has just published a log of the Mexican broadcasting stations which will be sent postpaid upon receipt of ten cents for mailing.

# WHAT'S ON THE AIR TONIGHT?

Fill in calls and dial numbers for those stations through which you best receive the three chains.  
You can then turn quickly to the one that has the feature you want.  
COLUMBIA (C).....WABC NATIONAL, Red (R)....WEAF NATIONAL, Blue (B).....WJZ

Call	Dial	Call	Dial	Call	Dial	Call	Dial	Call	Dial	Call	Dial

**TIME: ED Eastern Daylight; 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

**ED-5:45 p. m., E-4:45, C-3:45, M-2:45, P-1:45**  
**B — Little Orphan Annie**  
CRCT KDKA WBAL WBZ WBZA WJZ

**ED-6:00 p. m., E-5:00, C-4:00, M-3:00, P-2:00**  
**C — Reis and Dunn**

KFH KLZ KMBC KOMA KRLL KSL KTRH K TSA  
KVOR WAAB WABC WBBG WBRC WBT WCAU  
WDAE WDBJ WDOD WDRC WDSU WFBL WFEA  
WGST WHAS WHP WIBW WJAS WLAC WLWB  
WMBG WMT WODX WOKO WORC WQAM WREC  
WSBT WSFA WSJS WSPD WTAQ WTAR WVVV  
**R — Viennese Ensemble—Walter Logan**  
CRCT KDYL KFYR KOA KPO KPRC KSD KSTP  
KTBS KVOO WAPI WBEN WCAE WCSH WDAF  
WDAY WEAF WECB WFLA WFLA WGY WHO WIBA  
WIOD WIS WJAR WJAX WJDX WKY WMAQ WMC  
WOAI WOC WOW WRC WRVA WSAI WSB WSM  
WSMB WTAG WTAM WWJ WWNC  
**B — Richard Himber and Ensemble**  
KDKA KSO KWCN WBAL WENR WHAM WJZ WLW  
WMAL WREN

**ED-6:30 p. m., E-5:30, C-4:30, M-3:30, P-2:30**  
**R — Drake's Drums—Drama Songs**  
KDYL KFYR KOA KPO KPRC KTBS KTHS WAPI  
WCKY WDAY WEAF WECB WFLA WFBW WGY  
WHO WIBA WJDX WMAQ WMC WOAI WOC WSAI  
WSB WSMB WTAG WWJ

**ED-6:45 p. m., E-5:45, C-4:45, M-3:45, P-2:45**  
**B — Lowell Thomas—Today's News**  
CRCT KDKA WBAL WBZ WBZA WFLA WGAR  
WHAM WIOD WJAX WJR WJZ WLW WSYR

**ED-7:00 p. m., E-6:00, C-5:00, M-4:00, P-3:00**  
**B — A Mos'n' Andy**  
CRCT KDKA WBAL WBZ WBZA WFLA WGAR WIOD  
WJZ WLW WMAL WPTF WRVA

**ED-7:30 p. m., E-6:30, C-5:30, M-4:30, P-3:30**  
**C — Dolph Martin's Orchestra—Travelers Quartet**  
WABC WCAO WCAU WDRC WEAN WFBL WFEA  
WGR WHEC WHP WICC WJAS WJSV WLWB WNAC  
WOKO WORC  
**R — Lum and Abner**  
WBEN WCAE WCSH WEAF WEEI WFBR WGY  
WJAR WLW WRC WTAG WTAM  
**B — Richfield Country Club—Grantland Rice**  
CRCT KDKA WBAL WBZ WBZA WHAM WJZ WMAL  
WSYR

**ED-7:45 p. m., E-6:45, C-5:45, M-4:45, P-3:45**  
**C — Boake Carter**  
CKLW WABC WBBM WBT WCAO WCAU WGR  
WHK WJAS WJSV WNAC  
**R — The Goldbergs**  
WBEN WCAE WCSH WDAF WEAF WEEI WENR  
WFBR WGY WJAR WLIT WOW WRC WSAI WTAG  
WTAM WWJ

**ED-8:00 p. m., E-7:00, C-6:00, M-5:00, P-4:00**  
**C — Happy Bakers**  
CKLW WABC WADC WCAH WCAU WDRC WFBM  
WGR WHEC WHK WICC WJSV WKBN WMAS  
WNAC WORC WSPD  
**R — Soconyland Sketches—Drama**  
WBEN WCSH WEAF WEEI WGY WJAR WTAG  
WTIC

**B — Yesterday and Today**  
CFCF CRCT KDKA KOIL KSO KWCR KWK WBAL  
WBZ WBZA WCKY WGMR WHAM WJR WJZ WLS  
WMAL WREN WSYR

**ED-8:15 p. m., E-7:15, C-6:15, M-5:15, P-4:15**  
**C — Singin' Sam, Barbasol Man**  
CKLW KMBC KMOX WABC WACO WADC WCAU  
WCCO WDRC WEAN WFBL WFBM WGN WGR  
WHK WJAS WJSV WKRC WNAC WOKO WSPD

**ED-8:30 p. m., E-7:30, C-6:30, M-5:30, P-4:30**  
**C — Kate Smith**  
CKLW KFAB KMBC KMOX WABC WADC WCAO  
WCAU WCCO WFBL WGN WGR WHAS WHEC WHK  
WISN WJAS WJSV WKBN WKRC WMT WOKO  
WOW WSPD

**R — The Sizzlers—Male Trio**  
CFCF KDYL KFYR KOA KPO KSD KTBS KVOO  
WBEN WCAE WCSH WDAF WEAF WECB WFBW  
WHO WIBA WIOD WIS WJAR WJAX WJDX WKY  
WMAQ WMC WOAI WOC WOW WRC WSAI WSB  
WSM WSMB WTAG WTAM WWNC

**B — Potash and Perlmutter**  
KDKA WBAL WCKY WGAR WHAM WJR WJZ WLS  
WMAL WSYR

**ED-8:45 p. m., E-7:45, C-6:45, M-5:45, P-4:45**  
**C — Modern Male Chorus**

CKLW KFH KLZ KMBC KTRH K TSA KVOR WAAB  
WABC WBBG WBRC WBT WDAE WDBJ WDOD  
WDRC WDSU WFBL WFEA WGST WHAS WHP  
WIBW WIP WISN WJAS WKBN WLAC WLWB  
WMBG WMT WODX WOKO WORC WQAM WREC  
WSBT WSFA WSJS WSPD WTAQ WTAR WVVV  
**R — Ferde Grofe's Orchestra**  
WBEN WCAE WCSH WEAF WEEI WFBR WGY  
WJAR WLIT WMAQ WTAM WTIC WTMJ WWJ  
**B — Gould and Shefter, Piano Duo**  
KDKA KOIL KSO KWCR KWK WBAL WBZ WBZA  
WCKY WHAM WJR WJZ WLS WMAL WREN WSYR

**ED-9:00 p. m., E-8:00, C-7:00, M-6:00, P-5:00**  
**C — Manhattan Sereaders**

CKLW KLZ KRLL KSL K TSA KVOR WABC WACO  
WADC WBBG WBRC WBT WCAO WDAE WDBJ  
WDOD WDRC WDSU WFBL WFBM WFEA WGST  
WHAS WHEC WHK WHP WIBW WIP WISN WJAS  
WLAC WLWB WOKO WORC WQAM WREC WSBT  
WSBT WSFA WSJS WSPD WTAQ WVVV

**R — A. & P. Gypsies**  
KSD WBEN WCAE WCSH WDAF WEAF WEEI WGY  
WHO WJAR WLIT WMAQ WOC WOW WRC WSAI  
WTAG WTAM WTIC WWJ

**B — Sinclair Minstrels**  
KDKA KFYR KOA KOIL KPRC KSO KSTP KTBS  
KWCR KWK WAPI WBAL WBZ WBZA WDAY WECB  
WFLA WFLA WGAR WHAM WIBA WIOD WIS WJAX  
WJDX WJZ WKY WLS WLW WMC WOAI WPTF  
WREN WRVA WSB WSM WSMB WTMJ WWNC

**ED-9:30 p. m., E-8:30, C-7:30, M-6:30, P-5:30**  
**C — Theatre of Today**

CKLW KLZ KRLL KSL K TSA KVOR WABC WACO  
WADC WBBG WBRC WBT WCAO WDAE WDBJ  
WDOD WDRC WDSU WFBL WFBM WFEA WGST  
WHAS WHEC WHK WHP WIBW WIP WISN WJAS  
WLAC WLWB WOKO WORC WQAM WREC WSBT  
WSFA WSJS WSPD WTAQ WVVV

**MONDAY—(Continued)**

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

**ED-10:00 p. m., E-9:00, C-8:00, M-7:00, P-6:00**

**C — Andre Kostelanetz—Gladys Rice**  
CFRB CKLW KFH KLZ KMBC KOMA KRLLD KSL KTRH KTSa KVOR WABC WACO WADC WBIG WBRC WBT WCAO WCAU WCCO WDAE WDBJ WDOD WDRC WDSU WFBL WFBM WFEA WGST WHAS WHEC WHP WISN WJAS WLAC WLWB WMBD WMBG WODX WOKO WORC WQAM WREC WSJS WTAR

**R — Contented Program**

KSD WBen WCAE WDAF WENR WGY WHO WLW WOC WTAM WTMJ WWJ

**ED-10:30 p. m., E-9:30, C-8:30, M-7:30, P-6:30**

**C — Little Jack Little**

CFRB CKLW KFH KLZ KMBC KOMA KSL KTRH KTSa KVOR WAAB WABC WACO WADC WBIG WBRC WBT WCAO WCCO WDAE WDBJ WDOD WDRC WDSU WFBL WFBM WFEA WGST WHAS WHEC WHK WHP WIBW WICC WJAS WLAC WLWB WMBD WODX WOKO WORC WPG WQAM WREC WSPD WTAR

**R — Gus Haenschen's Parade of Melody**

KDYL KFI KGHL KGIR KGO KGW KHQ KOA KOMO KPRC KSD KSTP KVOO WBen WCAE WCHS WDAY WEAF WECB WEEL WFAA WFBW WGY WHO WJAR WKY WLIT WLW WMAQ WMC WOAI WOC WOW WRC WSB WSM WTAG WTAM WTIC WTMJ WWJ

**ED-10:45 p. m., E-9:45, C-8:45, M-7:45, P-6:45**

**C — Howard Barlow and Symphony Orchestra**

CKLW KFH KMOX KOMA KRLLD KSL KTRH KTSa KVOR WAAB WABC WACO WADC WBIG WBRC WBT WCAO WCCO WDAE WDBJ WDOD WDRC WDSU WFBL WFBM WFEA WGST WHAS WHEC WHP WIBW WJAS WLAC WLWB WMBD WMT WODX WOKO WORC WPG WQAM WREC WSBT WSJS WSPD

**ED-11:00 p. m., E-10:00, C-9:00, M-8:00, P-7:00**

**B — A mos 'n' Andy**

KDYL KFI KGO KGW KHQ KOA KOIL KOMO KPRC KSTP KTHS KWK WCKY WDAF WENR WFAA WHAM WJR WKY WMAQ WMC WOAI WREN WSB WSM WSMB WTMJ

**ED-11:15 p. m., E-10:15, C-9:15, M-8:15, P-7:15**

**C — Phil Regan, Tenor**

CKLW KFH KMBC KOMA KSL KTRH KTSa KVOR WABC WACO WADC WBG WBRC WBT WCAO WCAU WCCO WDAE WDBJ WDOD WDRC WDSU WFBL WFBM WFEA WGST WHAS WHEC WHP WIBW WIP WJAS WKBN WLAC WLWB WMBD WMT WODX WOKO WORC WQAM WREC WSBT WSJS WSPD

**R — Buddy Rogers and Orchestra**

WCAE WEAF WFBW WFLA WIOD WIS WRC WSAI WTAG WWNC

**B — Major, Sharp and Minor—Girls Trio**

CFCF KDKA KDYL KFI KFYR KGO KGW KHQ KOA KOIL KOMO KSO KSTP KWCR KWK KYW WBAL WECB WFAA WGAR WHAM WIBA WJR WJZ WKY WLW WMAL WREN WSYR

**R — Lum and Abner**

KSD WDAF WENR WHO WKBF WOC WTAM WTMJ

**ED-11:30 p. m., E-10:30, C-9:30, M-8:30, P-7:30**

**R — Jack Denny and Orchestra**

WCHS WEAF WFBW WJAR WRC WTAG WTIC

**TUESDAY**

**ED-5:45 p. m., E-4:45, C-3:45, M-2:45, P-1:45**

**B — Little Orphan Annie, See Monday**

**ED-6:00 p. m., E-5:00, C-4:00, M-3:00, P-2:00**

**C — Reis and Dunn, 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

**ED-6:15 p. m., E-5:15, C-4:15, M-3:15, P-2:15**

**C — Betty Barthell, Songs**

CKLW KFH KLZ KMBC KOMA KTRH KTSa KVOR

WAAB WABC WBIG WBRC WBT WDAE WDBJ WDOD WDRC WDSU WFBL WFEA WGST WHAS WHP WIBW WIP WISN WJAS WLAC WLWB WLBZ WMBG WMT WODX WOKO WORC WQAM WREC WSBT WSFA WSJS WSPD WTAQ WTAR WWVA

**ED-6:30 p. m., E-5:30, C-4:30, M-3:30, P-2:30**

**R — Mid-Week Hymn Sing**

KDYL KFYR KGIR KFO KPRC KTHS KTHS KVOO WDAY WEAF WFAA WFI WGY WHO WIBA WIS WJAX WJDX WMAQ WOAI WOC WRC WSAI WTAG WWNC

**B — Kathryn Newman, Coloratura Soprano**

KSO KWCR WBAL WCKY WENR WHAM WJZ WREN WSYR

**ED-6:45 p. m., E-5:45, C-4:45, M-3:45, P-2:45**

**C — Barney Rapp and Orchestra**

CKLW KFH KLZ KMBC KOMA KSL KTRH KTSa KVOR WAAB WABC WBBM WBIG WBRC WBT WCAO WCAU WDAE WDBJ WDOD WDRC WDSU WFBL WFEA WGST WHAS WISN WKBN WLAC WLWB WLBZ WMBG WMT WODX WOKO WORC WQAM WREC WSFA WSJS WSPD WTAQ WWVA

**R — Shirley Howard—Songs**

KDYL KFYR KOA KFO KPRC KSD KSTP KTHS KTHS WCKY WDAY WEAF WECB WEEL WFAA WFBW WGY WHO WJAR WJDX WKY WMAQ WOAI WOC WOW WSAI WSM WTAG WWJ

**B — Lowell Thomas, See Monday**

**ED-7:00 p. m., E-6:00, C-5:00, M-4:00, P-3:00**

**C — Gypsy Nina**

CKLW KLZ KOMA KTRH KTSa KVOR WABC WACO WADC WBBM WBRC WBT WCAU WCCO WDAE WDBJ WDOD WDRC WDSU WFBL WFEA WGST WHEC WHP WISN WJAS WKBN WLAC WLWB WLBZ WMBG WMT WODX WOKO WORC WQAM WREC WSFA WSJS WSPD WTAQ WTAR WWVA

**R — The Sizzlers—Male Trio**

CFCF KPSD KHQ KOA KOMO KSD KTHS KVOO KYW WAPI WCKY WDAF WDAY WEAF WEEL WFBW WFI WHO WIBA WJAR WJDX WMC WOAI WOC WSAI WSM WSMB WTAG WTAM

**B — A mos 'n' Andy, See Monday**

**ED-7:15 p. m., E-6:15, C-5:15, M-4:15, P-3:15**

**C — Dance Time**

CKLW KFH KLZ KMOX KOMA KSL KTRH KTSa KVOR WAAB WABC WACO WADC WBBM WBIG WBRC WBT WCAU WCCO WDBJ WDOD WDRC WFBL WFEA WGST WHAS WHK WHP WISN WJAS WKBN WLAC WLWB WMBG WODX WOKO WORC WQAM WREC WSFA WSJS WSPD WTAQ WTAR

**B — National Advisory Council on Radio in Education**

KDKA KECA KEX KFSB KFYR KGA KGHL KGIR KJR KOA KOIL KPRC KTAI KTHS KTHS KVOO KWCR KWK KYA WAPI WBAW WBLZ WBZA WCKY WFLA WFLA WIS WJDX WJZ WMAL WOAI WPTF WREN WSMB WWNC

**ED-7:30 p. m., E-6:30, C-5:30, M-4:30, P-3:30**

**C — Road Reporter**

WABC WBT WCAO WCAU WFBL WHEC WJSV WNAC

**R — Lum and Abner, See Monday**

**ED-7:45 p. m., E-6:45, C-5:45, M-4:45, P-3:45**

**R — The Goldbergs, See Monday**

**B — Ray Heatherton, Baritone**

KDKA KDYL KOA KPRC KTHS WBAL WBAW WJZ WKY WMAL

**C — Boake Carter, See Monday**

**ED-8:00 p. m., E-7:00, C-6:00, M-5:00, P-4:00**

**C — Gladys Rice and Charles Carlie**

CKLW KFH KLZ KMBC KMOX KOMA KRLLD KTRH KTSa KVOR WABC WACO WADC WBIG WBRC WBT WCAO WCAU WCCO WDAE WDBJ WDOD WDRC WDSU WFBL WFBM WFEA WGST WHK WHP WJAS WLAC WLWB WLBZ WMBG WMT WODX WOKO WORC WPG WQAM WREC WSBT WSFA WSPD WTAQ WTAR

**R — Blackstone; Sanderson-Crumit**

WBen WCAE WCHS WEAF WEEL WFI WGY WJAR WRC WTAG WTAM WWJ

**B — Pastoral—Concert Orchestra**

CFCF CRCT KDKA KOIL KSO KWCR KWK WBAL

**TUESDAY—(Continued)**

WBZ WBZA WGAR WHAM WJR WJZ WLW WMAL  
WMAQ WREN WSYR

**ED-8:30 p. m., E-7:30, C-6:30, M-5:30, P-4:30**

**R — Wayne King and Orchestra**  
KPRC KSD KSTP WBEN WCAE WCSH WDAF  
WEAF WEEL WFI WGY WHO WJAR WKY WMAQ  
WOAI WOC WOW WRC WSAI WTAG WTAM WTMJ  
WVJ

**B — Horlick's Adventures in Health**  
CRCT KDKA KOIL KSO WBAL WBZ WBZA WGAR  
WHAM WJZ WLS WLW WREN

**C — Kate Smith, See Monday**

**ED-8:45 p. m., E-7:45, C-6:45, M-5:45, P-4:45**

**C — Poet's Gold—David Ross**  
CKLW KFH KLZ KMBC KMOX KOMA KRDL KSL  
K TSA KVOR WABC WACO WADC WBGW WBT  
WCAO WCAU WCCO WDBJ WDDO WDRC WDSU  
WFBW WFLB WFEA WGST WHAS WHK WHP WISN  
WJAS WKBN WLAC WLWB WLWZ WMBG WMT  
WODX WOKO WORC WPG WQAM WWSJ WSPA  
WSJS WSPD WTAQ WTAR WWVA

**B — Floyd Gibbons—World's Fair Reporter**  
KDKA WBAL WBZ WBZA WGAR WHAM WJZ WLS  
WMAL WSYR

**ED-9:00 p. m., E-8:00, C-7:00, M-6:00, P-5:00**

**R — Bon Bernie and Orchestra**  
KFYR KOA KPRC KSD KSTP WBAP WBEN WCAE  
WCSH WDAY WEAF WEEL WFBW WFI WGY WHO  
WJAR WKY WLS WLW WMC WOAI WOC WOW  
WRC WRVA WSM WSMB WTAG WTAM WTMJ WWJ

**B — Philharmonic Symphony Orchestra**  
CFCF CRCT KDKA KOIL KSO KWCR KWK KYW  
WBAL WBZ WBZA WCKY WENR WGAR WHAM  
WJR WJZ WMAL WREN WSYR

**ED-9:30 p. m., E-8:30, C-7:30, M-6:30, P-5:30**

**C — Nino Martini, Tenor**  
CKLW KFH KLZ KMBC KMOX KOMA KRDL  
KTRH KVOR WABC WACO WADC WBGW WBRW  
WBT WCAO WCAU WCCO WDAE WDDO WDRC  
WDSU WEAN WFBL WFBM WFEA WGST WHAS  
WHK WHP WIBW WISN WJAS WKBN WLAC WLWB  
WLWZ WMT WODX WOKO WORC WPG WQAM  
WSPA WSJS WSPD WTAQ

**R — Texaco Fire Chief Program**  
KDYL KFI KFSD KFYR KGHK KGIR KGO KGW  
KHQ KOA KOMO KPRC KSD KSTP KTAR KTBS  
KVOO WBAP WBEN WCAE WSPH WDAF WDAY  
WEAF WNBC WEEL WFBW WFI WFLA WGY WHO  
WIBA WIOD WIS WJAR WJAX WJDX WKY WLW  
WMAQ WMC WOAI WOC WOW WPTF WRC WRVA  
WSB WSM WSMB WTAG WTAM WTMJ WWJ WNNC

**ED-10:00 p. m., E-9:00, C-8:00, M-7:00, P-6:00**

**C — California Melodies**  
CKLW KFH KLZ KMBC KMOX KOMA KSL KTRH  
K TSA KVOR WAAB WABC WACO WADC WBGW  
WBRW WBT WCAO WCAU WCCO WDBJ WDDO  
WDRC WDSU WFBL WFBM WFEA WGST WHAS  
WHK WHP WIBW WISN WJAS WKBN WLAC  
WLWB WLWZ WMBD WMBG WMT WODX WOKO  
WORC WQAM WRWC WSJS WSPD WTAR

**B — Household Musical Memories—Edgar A. Guest**  
KDKA KSO KWK WBAL WBZ WBZA WENR WHAM  
WJR WJZ WREN WSYR

**ED-10:30 p. m., E-9:30, C-8:30, M-7:30, P-6:30**

**C — Ted Husing and Leon Belasco**  
CKLW KDB KERN KFBK KFH KPPY KFRC KGB  
KHJ KLZ KMBC KMJ KMOX KOIN KOL KOMA  
KSCJ KSL KTAT KTRH K TSA KFI KWG WABC  
WADC WBBM WBRW WBT WCAE WCAU WCCO  
WDRC WEAN WFBL WFBM WGST WHAD WHAS  
WHK WHP WIBW WISN WJAS WKBN WKRC  
WLAC WLWZ WMT WNAC WOKO WOWO WRC  
WRR

**R — National Radio Forum**  
KDYL KFI KFSD KFYR KGHK KGIR KGO KGW  
KHQ KOA KOMO KSD KSTP KTAR KTBS KTHS  
KVOO KYW WBEN WCAE WCSH WDAY WEAF  
WBCW WEEL WFBW WFI WFLA WGY WIBA WIOD  
WIS WJAR WJAX WJDX WKY WMC WOW WPTF

WRC WRVA WSAI WSB WSM WTAG WTAM WTMJ  
WWJ WNNC

**B — Miss Lilla—Southern Dramatic Sketch**  
KDKA KOIL KSO WBAL WGAR WHAM WJZ WMAL  
WMAQ WREN WSYR

**ED-10:45 p. m., E-9:45, C-8:45, M-7:45, P-6:45**

**C — Light Opera Gems**  
CKLW KFH KLZ KMBC KMOX KOMA KSL KTRH  
K TSA KVOR WAAB WABC WACO WADC WBGW  
WBRW WBT WCAO WCAU WCCO WDAE WDBJ WDDO  
WDRC WDSU WFBL WFBM WFEA WGST WHAS  
WHK WHP WIBW WIP WJAS WKBN WLAC WLWB  
WLWZ WMBG WMT WODX WOKO WORC WPG  
WQAM WRWC WSJS WSPD

**ED-11:00 p. m., E-10:00, C-9:00, M-8:00, P-7:00**

**B — Amos 'n' Andy, See Monday**

**ED-11:15 p. m., E-10:15, C-9:15, M-8:15, P-7:15**

**C — Little Jack Little**  
CKLW KFH KLZ KMBC KOMA KSL K TSA KVOR  
WABC WACO WADC WBGW WBRW WBT WCAO  
WCCO WDAE WDBJ WDDO WDRC WDSU WFBL  
WFBM WFEA WGST WHAS WHK WHP WIBW  
WIP WJAS WKBN WLAC WLWB WMBD WMBG  
WMT WODX WOKO WORC WQAM WSJS WSPD  
WWVA

**B — Floyd Gibbons—World's Fair Reporter**  
KOIL KSO KSTP KWCR KWK WJR WLW WREN  
**R — Lum and Abner, See Monday**

**ED-11:30 p. m., E-10:30, C-9:30, M-8:30, P-7:30**

**B — Ernie Holst and Orchestra**  
CFCF KDYL KFYR KOIL KPO KSO KSTP KWCR  
KWK WAPI WBAL WBZ WBZA WCKY WDAY WBCW  
WENR WFLA WHAM WIBA WIOD WIS WJDX WJZ  
WMAL WMC WREN WRVA WSB WSM WSMB WSYR  
WNNC

**ED-11:45 p. m., E-10:45, C-9:45, M-8:45, P-7:45**

**B — Horlick's Adventures in Health**  
KDYL KFI KGO KGW KHQ KOA KOMO

**WEDNESDAY**

**ED-5:45 p. m., E-4:45, C-3:45, M-2:45, P-1:45**

**B — Little Orphan Annie, See Monday**

**ED-6:00 p. m., E-5:00, C-4:00, M-3:00, P-2:00**

**R — Walter Logan, See Monday**  
**B — Reggie Childs and Orchestra**  
KDKA KSO KWCR KWK WBAL WBZ WBZA WENR  
WJZ WREN

**ED-6:30 p. m., E-5:30, C-4:30, M-3:30, P-2:30**

**R — Back of the News in Washington**  
KDYL KFYR KGHK KGIR KOA KPO KPRC KTBS  
KTHS KVOO WDAY WEAF WFBW WGY WHO WIBA  
WIS WJAR WJDX WMAQ WOAI WOC WRC WSAI  
WSB WSM WWJ WNNC

**B — Three X Sisters—Harmony Trio**  
KSO KWCR KWK WBAL WGAR WHAM WJZ WREN  
WSYR

**ED-6:45 p. m., E-5:45, C-4:45, M-3:45, P-2:45**

**C — Ted Husing, Sport Talk**  
CKLW KFH KLZ KMBC KOMA KSL KTRH K TSA KVOR  
WAAB WABC WBGW WBRW WBT WCAO WCAU  
WDAE WDBJ WDBO WDDO WDRC WDSU WEAN  
WFBL WFEA WGST WISN WJAS WKBN WKWB  
WLAC WLWB WMBG WMT WODX WOKO WORC  
WQAM WRWC WSBT WSPA WSJS WTAQ WTOC

**R — John Pierce, Tenor**  
KDYL KFI KFYR KPO KPRC KSD KTBS WBEN  
WCKY WCSH WDAY WEAF WBCW WEEL WFAA  
WFBW WFI WGY WHO WIS WJAR WJDX WKY  
WMAQ WOAI WOC WOW WRC WSAI WSM WTAG  
WWJ

**B — Lowell Thomas, See Monday**

**ED-7:00 p. m., E-6:00, C-5:00, M-4:00, P-3:00**

**C — Morton Downey**  
CKLW KFAB KFH KLZ KOMA KSL KTRH K TSA KVOR  
WABC WACO WADC WBGW WBRW WBT WCAO  
WCAU WCCO WDAE WDBJ WDBO WDDO  
WDRC WDSU WEAN WFBL WFEA WGR WGST  
WHAS WHK WTCO WISN WJAS WKBN WLAC  
WLWB WMBG WMT WNAC WODX WOKO WORC

# WEDNESDAY—(Continued)

WQAM WREC WSPA WSJS WSPD WTAQ WTAR  
WTOC WWVA

**B — Amos 'n' Andy, See Monday**

**ED-7:15 p. m., E-6:15, C-5:15, M-4:15, P-3:15**

**B — Eva Le Gallienne—Readings**

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

**ED-7:30 p. m., E-6:30, C-5:30, M-4:30, P-3:30**

**C — Dolph Martin, See Monday**

**R — Lum and Abner, See Monday**

**B — Richard Himber and Ensemble**

CRCT KDKA KFYR KOIL KPRC KSO KTBS KWCR  
KWK WBAL WBAF WDAY WEAM WIBA WIS WJDX  
WJZ WKY WMC WQI WREN WRVA WSB WSM  
WSMB WSYR WWNC

**ED-7:45 p. m., E-6:45, C-5:45, M-4:45, P-3:45**

**C — Boake Carter, See Monday**

**R — The Goldbergs, See Monday**

**ED-8:00 p. m., E-7:00, C-6:00, M-5:00, P-4:00**

**C — Happy Bakers, See Monday**

**R — Chase and Sanborn Tea Program**

CFCF CRCT KSD WBEN WCAE WCKY WCSH  
WDAF WDAF WEEI WFRB WGY WHO WJAR WLIT  
WLS WOC WOW WRC WSAI WTAG WTAM WTCM  
WWJ

**ED-8:15 p. m., E-7:15, C-6:15, M-5:15, P-4:15**

**C — Mark Warnow's Orchestra—Charles Carlie**

CFRB CKLW KTAB KFH KMBC KOMA KTRH  
KTSB KVRB WABC WACO WADC WBIG WBT  
WCAO WCAU WDAE WDBJ WDOO WDRC WDSU  
WEAN WFBL WFEA WGR WGST WHEC WHK WICC  
WJAS WJWV WLAC WLWB WMBG WNAC WODX  
WOKO WORC WPG WQAM WREC WSBT WSPA  
WSJS WSPD WTAQ WTAR WWVA

**ED-8:30 p. m., E-7:30, C-6:30, M-5:30, P-4:30**

**C — Kate Smith, See Monday**

**B — Potash and Perlmutter, See Monday**

**ED-8:45 p. m., E-7:45, C-6:45, M-5:45, P-4:45**

**B — Philharmonic Orchestra**

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

**ED-9:00 p. m., E-8:00, C-7:00, M-6:00, P-5:00**

**C — Irvin S. Cobb—Al Good man's Orchestra**

CKLW KLRA KRLD KTRH KTSB WABC WACO  
WADC WBIG WBRB WBT WCAH WCAO WCAU  
WDAE WDBJ WDOO WDRC WDSU WEAN  
WFBL WFEA WGLC WGST WHAS WHK WJAS  
WJWV WKBW WKRC WLAC WLWB WMBG  
WNAC WOKO WORC WOWO WQAM WREC WSPA  
WSPD WTAQ WTAR WTCM

**R — Ferde Grofe's Orchestra**

KSD KSTP WBEN WCAE WCSH WDAF WDAF WEEI  
WGY WJAR WLIT WMAQ WRC WTAM WTCM WTMJ  
WWJ

**ED-9:15 p. m., E-8:15, C-7:15, M-6:15, P-5:15**

**C — Vera Van, Contralto**

CFRB CKLW KFH KLZ KMBC KMOX KOMA KRLD  
KSL KTSB KVRB WABC WACO WADC WBIG WBRB  
WBT WCAO WCAU WDAE WDBJ WDOO WDRC  
WDSU WEAN WFBL WFEA WGR WGST  
WHEC WHK WHP WIBW WICC WISN WJAS WKBW  
WLAC WMBG WMT WNAC WOKO WORC WQAM  
WSBT WSPA WSJS WSPD WTAQ WTAR WTOC  
WWVA

**R — Major, Sharp and Minor, Girls Trio**

KFYR WBEN WCAE WCSH WDAF WDAY WDAF  
WFRB WHO WIBA WJAR WLIT WMAQ WOC WOW  
WRC WSAI WTAG WWJ

**ED-9:30 p. m., E-8:30, C-7:30, M-6:30, P-5:30**

**C — Guy Lombardo and Orchestra—Burns and Allen**  
CKLW KLZ KMBC KMOX KOMA KRLD KSL KTRH  
KTSB WABC WADC WBIG WBT WCAO WCAU  
WCOO WDRC WEAN WFBL WFBM WGN WHK  
WJAS WJWV WKBW WKRC WNAC WOKO WORC  
WOWO WSPD

**R — One Man's Family—Sketch**

KFYR KPRC KSD KTBS KVOO KYW WBEN WCAE  
WCSH WDAF WDAY WDAF WEEB WEEI WFAA

WFRB WFLA WIBA WIOD WIS WJAR WJAX WJDX  
WKY WOAI WOW WRC WSAI WSB WSM WSMB  
WTAG WTAM WWJ WWNC

**ED-10:00 p. m., E-9:00, C-8:00, M-7:00, P-6:00**

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

CKLW KDB KERN KFBK KFH KPHY KPRC KGB  
KHJ KLRA KLZ KMBC KMJ KMOX KOH KOIN  
KOL KOMA KRLD KSCJ KSL KTRH KTSB KVI  
KVRB KWG WABC WADC WBIG WBRB WBT  
WCAH WCAO WCAU WCOO WDAE WDBJ WDOO  
WDOO WDRC WDSU WEAN WFBL WFBM WFEA  
WGN WGST WHAS WHEC WHK WHP WIBW WICC  
WISN WJAS WJWV WKBW WKRC WCRB WLAC  
WLWB WLWB WMBG WMT WNAC WNOX  
WODX WOKO WORC WOWO WPG WQAM WREC  
WSPD WTAQ WTAR WTOC

**R — Corn Cob Pipe Club**

KDYL KFI KFYR KGHL KGIR KGO KGW KHQ  
KOA KOMO KSD KSTP WBEN WCAE WCSH WDAF  
WDAF WDAF WEEB WEEI WENR WFRB WGY  
WHO WIBA WJAR WLIT WLW WOC WOW WRC  
WRVA WTAG WTAM WTCM WTMJ WWJ

**ED-10:30 p. m., E-9:30, C-8:30, M-7:30, P-6:30**

**C — Frigidate Program**

CFRB CKAC CKLW KDB KERN KFBK KFH KPHY  
KPRC KGB KHJ KLZ KMBC KMJ KMOX KOIN  
KOL KOMA KRLD KSCJ KSL KTRH KTSB KVI  
KWG WABC WADC WBBM WCAH WCAO WCAU  
WCOO WDAE WDBJ WDOO WDRC WDSU  
WEAN WFBL WFBM WGST WHAD WHAS WHEC  
WHK WICC WJAS WKBW WKRC WLAC WMBD  
WNAC WOKO WOWO WQAM WREC WSPD WTAQ  
WTAR

**R — Capt. Dobbsie's Ship of Joy**

CFCF KDYL KFI KFYR KGO KGW KHQ KOA  
KOMO KPRC KSD KSTP KTBS KTHS KVOO WBEN  
WCAE WCSH WDAY WDAF WEEB WEEI WFAA  
WFRB WFLA WGY WHO WIBA WIOD WIS WJAR  
WJAX WJDX WKY WMAQ WMC WOAI WOC WOW  
WRC WRVA WSAI WSB WSM WSMB WTAG WTAM  
WTCM WWJ WWNC

**B — Music Magic—Ruth Lyon, Soprano**

KSO KWCR KYW WBAL WBZ WBZA WCKY WJZ  
WMAL WREN WSYR

**ED-10:45 p. m., E-9:45, C-8:45, M-7:45, P-6:45**

**C — Howard Barlow, See Monday**

**ED-11:00 p. m., E-10:00, C-9:00, M-8:00, P-7:00**

**B — Amos 'n' Andy, See Monday**

**ED-11:15 p. m., E-10:15, C-9:15, M-8:15, P-7:15**

**R — Buddy Rogers, See Monday**

**R — Lum and Abner, See Monday**

**B — The Poet Prince**

KDYL KFI KFYR KGO KGW KHQ KOA KOMO  
KSD KSTP KTBS KWCR KWK WAPI WBAL WCKY  
WDAF WEEB WFAA WIBA WJDX WJR WJZ WKY  
WMAL WMAQ WMC WREN WSB WSYR

**ED-11:30 p. m., E-10:30, C-9:30, M-8:30, P-7:30**

**C — Charlie Davis and Orchestra**

CKLW KLRA WABC WACO WADC WBIG WBRB  
WBT WCAO WCAU WDBJ WDOO WDRC WDRB  
WEAN WFBL WFEA WGR WGST WHEC WHK WHP  
WICC WKBW WLAC WLWB WMBG WNAC WODX  
WOKO WORC WQAM WREC WSJS WSPD WTAQ  
WTAR

**B — Jack Denny and Orchestra**

KSO KWCR KWK WBAL WBZ WBZA WCKY WENR  
WGAR WJZ WREN WSYR

**ED-12:00 p. m., E-11:00, C-10:00, M-9:00, P-8:00**

**B — Mills' Blue Rhythm Band—Ethel Waters**

KDKA KDYL KFI KFYR KGO KGW KHQ KOA  
KOIL KOMO KPRC KSO KTBS KWCR KWK WAPI  
WBAL WBZ WBZA WCKY WDAY WEEB WFLA  
WGAR WHAM WIBA WIOD WJAX WJDX WJR  
WJZ WKY WMAL WMAQ WMC WOAI WREN WRVA  
WSB WSM WSMB WSYR WWNC

## THURSDAY

**ED-5:45 p. m., E-4:45, C-3:45, M-2:45, P-1:45**

**B — Little Orphan Annie, See Monday**

**ED-6:00 p. m., E-5:00, C-4:00, M-3:00, P-2:00**

**R — Walter Logan, See Monday**

**B — Reggie Childs, See Wednesday**



THURSDAY—(Continued)

ED-6:30 p. m., E-5:30, C-4:30, M-3:30, P-2:30

C — Mildred Bailey, Songs

CFRB CKLW KFH KLZ KMBC KOMA KTLA KFOR WAAB WABC WBG WBRC WBT WDAE WDBJ WDBO WDDO WDSU WEAN WFEA WGST WHAS WHP WIBW WICC WISN WJAS WJWS WKBN WLAC WLWB WMBG WMT WOKO WORC WQAM WREC WSBT WSFA WSJS WSPD WTAQ WTCO WWVA

R — Richard Himber and Orchestra

KDYL KFYR KOA KPO KPRC KSD KSTP KTBS KTHS KVOO WAPI WBEN WCKY WDAY WFAE WFCB WEEI WFAA WFBR WFI WGY WHO WIBA WIS WJAR WJAX WJDX WKY WMC WOAI WOC WOW WRC WSAI WSB WSM WTAG WTMJ WWJ WWNC

B — Old Songs of the Church

KSO KWCR WBAL WCKY WENR WHAM WJZ WREN WSYR

ED-6:45 p. m., E-5:45, C-4:45, M-3:45, P-2:45

C — Isha M Jones and Orchestra

CKLW KFH KMBC KOMA KSL KTRH KTLA KFOR. WAAB WABC WBBM WBIG WBRC WBT WCAO WCAU WDAE WDBJ WDBO WDDO WDRC WDSU WEAN WFBL WFEA WGST WHAS WISN WKBN WLAC WLWB WMBG WMT WODX WOKO WORC WQAM WREC WFSJ WSJS WSPD WTAQ WTCO WWVA

B — Lowell Thomas, See Monday

ED-7:00 p. m., E-6:00, C-5:00, M-4:00, P-3:00

C — Morton Downey, See Wednesday

R — The Sizzlers, See Tuesday

B — A Mos 'n' Andy, See Monday

ED-7:15 p. m., E-6:15, C-5:15, M-4:15, P-3:15

R — Countess Olga Albani

KSD WBEN WFAE WFI WJAR WMAQ WSAI WTAG

C — Dance Time, See Tuesday

B — Concert Footlights

CFBC CRCT KDKA KGO KGW KOA KOIL KOMO KPRC KSO KTBS KVOO KWCR KWK WAPI WBAL WBAP WBZ WBZA WCKY WDAY WHAM WIBA WIS WJDX WJZ WKY WMAL WOAI WREN WSB WSMB WWNC

ED-7:30 p. m., E-6:30, C-5:30, M-4:30, P-3:30

C — Road Reporter, See Tuesday

R — Lum and Abner, See Monday

ED-7:45 p. m., E-6:45, C-5:45, M-4:45, P-3:45

C — Boake Carter, See Monday

R — The Goldbergs, See Monday

B — Tune Detective—Sigmund Spaeth

KDKA KDYL KFSD KFYR KGO KOA KOIL KPRC KSO KWCR KWK WBAL WBAP WGAR WHAM WIBA WIS WJDX WJZ WKY WMAL WWNC

ED-8:00 p. m., E-7:00, C-6:00, M-5:00, P-4:00

R — Fleischmann Hour—Rudy Vallee

CFBC CRCT KDYL KFI KFYR KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTRH KTHS KVOO WAPI WBAP WBEN WCAE WCHS WDAF WDAY WFAE WFCB WEEI WFBR WFI WFLA WGY WHO WIOD WJAR WJAX WJDX WKY WLW WMAQ WMC WOAI WOC WOW WPTF WRC WRVA WSB WSM WSMB WTAG WTAM WTMJ WWJ

ED-8:30 p. m., E-7:30, C-6:30, M-5:30, P-4:30

C — Columbia Dramatic Guild

CKLW KFAB KFH KLZ KMBC KMOX KOMA KSL KTLA KFOR WAAB WABC WACO WADC WBIG WBRC WBT WCAO WCAU WCCO WDAE WDBJ WDBO WDDO WDRC WFEA WFBL WFBM WFEA WGST WHAS WHEC WHK WHP WIBW WICC WISN WJWS WKBN WLAC WLWB WMBG WMT WODX WOKO WORC WQAM WREC WSBT WSFA WSJS WSPD WTAQ WTCO WWVA

ED-8:45 p. m., E-7:45, C-6:45, M-5:45, P-4:45

Floyd Gibbons, See Tuesday

ED-9:00 p. m., E-8:00, C-7:00, M-6:00, P-5:00

C — Mills Brothers

CKLW KFAB KFH KLZ KMBC KMOX KOMA KRLD KSL KTLA KFOR WABC WACO WADC WBIG WBRC WBT WCAO WCAU WDAE WDBJ WDBO WDDO WDRC WDSU WEAN WFBL WFEA WGST WHAS

WHP WIBW WICC WISN WJAS WJWS WKBN WLAC WLWB WMBG WMT WNAO WOKO WQAM WSBT WSFA WSJS WSPD WTAQ WTCO WWVA

R — Maxwell House Show Boat

KPRC KSD KSTP KTBS WAPI WFAE WBEN WCAE WCKY WCHS WDAF WDAY WFAE WFCB WEEI WFBR WFI WFLA WGY WHO WIOD WIS WJAR WJAX WJDX WKY WMAQ WMC WOAI WOC WOW WRC WRVA WSAI WSB WSM WSMB WTAG WTAM WTMJ WWJ WWNC

B — Death Valley Days—Drama

KDKA KOIL KWK WBAL WVBZ WZBA WGAR WHAM WJR WJZ WLS WLW WREN

ED-9:30 p. m., E-8:30, C-7:30, M-6:30, P-5:30

C — U. S. Marine Band

CKLW KFAB KFH KLZ KMBC KMOX KOMA KRLD KSL KTLA KFOR WABC WACO WADC WBIG WBRC WBT WCAO WCAU WDAE WDBJ WDBO WDDO WDRC WDSU WEAN WFBL WFEA WGST WHAS WHP WIBW WICC WISN WJAS WJWS WKBN WLAC WLWB WMBG WMT WNAO WOKO WQAM WSBT WSFA WSJS WSPD WTAQ WTCO WWVA

B — Wayne King and Orchestra

KDKA KOIL KSO KWCR KWK WBAL WVBZ WZBA WENR WGAR WHAM WJR WJZ WREN

ED-10:00 p. m., E-9:00, C-8:00, M-7:00, P-6:00

C — Willard Robison and Orchestra

CKLW KFAB KFH KLZ KMBC KMOX KOMA KRLD KTLA KFOR WABC WACO WADC WBIG WBRC WCCO WDAE WDBJ WDBO WDDO WDRC WDSU WFBL WFBM WFEA WGST WHAS WHK WHP WIBW WISN WJAS WJWS WLAC WLWB WMBG WOKO WORC WQAM WREC WSBT WSFA WSJS WSPD WTAQ WTCO

R — Al Jolson; Paul Whiteman's Orchestra

KDYL KFI KFYR KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTBS KTHS WAPI WBAP WBEN WCAE WCHS WDAF WDAY WFAE WFCB WEEI WFBR WFI WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WLW WMAQ WMC WOAI WOC WOW WPTF WRC WRVA WSB WSMB WTAG WTAM WTMJ WWJ WWNC

ED-10:30 p. m., E-9:30, C-8:30, M-7:30, P-6:30

C — Ted Husing, See Tuesday

B — Echoes of Palisades—Archer Gibson, Organist

KDKA KSO KWCR KYW WBAL WVBZ WZBA WCKY WGAR WHAM WJZ WMAL WREN

ED-10:45 p. m., E-9:40, C-8:45, M-7:45, P-6:45

C — Gladys Rice, Soprano

CFBR CKLW KFAB KFH KLZ KMBC KOMA KSL KTRH KTLA KFOR WAAB WABC WACO WADC WBIG WBRC WBT WCAO WCCO WDAE WDBJ WDBO WDDO WDRC WDSU WEAN WFBL WFBM WFEA WGST WHAS WHEC WHP WIBW WICC WIP WJAS WJWS WKBN WLAC WLWB WMBG WMBG WMT WODX WOKO WORC WPG WQAM WREC WRSJ WSPD WTCO

ED-11:00 p. m., E-10:00, C-9:00, M-8:00, P-7:00

B — A Mos 'n' Andy, See Monday

ED-11:15 p. m., E-10:15, C-9:15, M-8:15, P-7:15

C — Phil Regan, See Monday

R — Lum and Abner, See Monday

B — Floyd Gibbons, See Tuesday

ED-11:30 p. m., E-10:30, C-9:30, M-8:30, P-7:30

C — N. R. A. Program

CFBR CKLW KFAB KFH KLZ KMBC KMOX KSL KTRH KTLA KFOR WABC WACO WADC WBIG WBRC WBT WCAO WCCO WDAE WDBJ WDBO WDRC WDSU WEAN WFBL WFBM WFEA WGST WHAS WHEC WHK WHP WIBW WICC WISN WJWS WKBN WLAC WLWB WMBD WMBG WMT WNAO WODX WOKO WORC WPG WQAM WREC WSBT WSJS WSPD WTCO

R — Helen Morgan—Songs

KSD WBEN WCAE WCHS WDAF WFAE WEEI WFBR WFI WGY WHO WJAR WOC WOW WSAI WTAG WTAM

B — U. S. Army Band

CFBC CRCT KDKA KDYL KFYR KOA KOIL KPO KSO KSTP KTBS KVOO KWCR KWK WBAL WBAP WBZ WBZA WCKY WDAY WFCB WFLA WGAR

THURSDAY—(Continued)

WHAM WIBA WIOD WIS WJAX WJDX WJRW WJR WJZ  
WMAL WMAQ WMC WOAI WREN WRVA WSB  
WSM WSMB WWNC

ED-1:00 a. m., E-12:00, C-11:00, M-10:00, P-9:00  
R — Maxwell House Show Boat  
KDYL KFI KFSD KGO KGW KHQ KOA KOMO  
KTAR

FRIDAY

ED-5:45 p. m., E-4:45, C-3:45, M-2:45, P-1:45  
B — Little Orphan Annie, See Monday

ED-6:00 p. m., E-5:00, C-4:00, M-3:00, P-2:00  
R — Walter Logan, See Monday

ED-6:15 p. m., E-5:15, C-4:15, M-3:15, P-2:15  
C — George Hall and Orchestra  
CKLW KFH KLZ KMBC KMOX KOMA KTRH  
KTSB KVOR WABC WADC WBIG WBRB WBT  
WCAO WDAE WDBJ WDBO WDDO WDRC WEAN  
WFBL WFEA WGST WHAS WHP WIBW WICC WIP  
WISN WJAS WJSV WKBN WLAC WLWB WMBG  
WMT WODX WOKO WORC WQAM WREC WRSB  
WSFA WSJS WSPD WTAQ WTAR WTOC WWVA

ED-6:30 p. m., E-5:30, C-4:30, M-3:30, P-2:30  
R — Morton Gould and Bert Shaffer, Piano Duo  
KFYR KOA KPO KPBC KVOO WDAY WDAF  
WFBR WFL WIBA WIS WJAR WJDX WMC WOAI  
WSB WSM WSMB WTAM WWJ WWNC

ED-6:45 p. m., E-5:45, C-4:45, M-3:45, P-2:45  
R — Just Relax—Comedy Sketch  
KFYR KOA KPO KPRC KSD KSTP KTBS KTHS  
KVOO WBN WCKY WDAY WDAF WIBC WFAA  
WFBR WGY WIBA WJAR WJDX WKY WMAQ  
WMC WOAI WOW WSAI WSB WSMB WTAG WWJ  
B — Lowell Thomas, See Monday

ED-7:00 p. m., E-6:00, C-5:00, M-4:00, P-3:00  
R — Rickelers Quartet  
CFRC KDYL KOA KOMO KSD KTBS KVOO WDAF  
WEAF WENE WFBR WGY WHO WJAR WJDX  
WKY WLIT WMC WOAI WOC WSAI WSB WSM  
WSMB

B — Amos 'n' Andy, See Monday

ED-7:30 p. m., E-6:30, C-5:30, M-4:30, P-3:30  
R — Betty Boop Frolics  
KSD WBN WBAF WJAR WMAQ WTAG

B — George Olsen and Orchestra  
CFRC KDYL KFI KFO KGO KGW KHQ KOA KOIL  
KOMO KPBC KSTP WAPI WBAL WCKY WDAY  
WHAM WIBA WIS WJDX WJZ WKY WLW WMAL  
WMC WRVA WSM WSMB WWNC  
C — Dolph Martin, See Monday

ED-7:45 p. m., E-6:45, C-5:45, M-4:45, P-3:45  
C — Boake Carter, See Monday  
R — The Goldbergs, See Monday

ED-8:00 p. m., E-7:00, C-6:00, M-5:00, P-4:00  
R — Cities Service—Jessica Dragonette  
CRCT KDYL KOA KPBC KSD KTBS KTHS KVOO  
KYW WBN WCAE WCHS WDAF WEAF WIBC  
WEEI WFAA WFBR WGY WHO WJAR WKY WLIT  
WOAI WOC WOW WRC WSAI WTAG WTAM WTIC  
WTMJ WWJ

B — Nestle's Program with Ethel Shutta  
KDKA KWK WBAL WBZ WBAZ WCKY WGAR  
WHAM WJR WJZ WLS WMAL WSYR  
C — Happy Bakers, See Monday

ED-8:30 p. m., E-7:30, C-6:30, M-5:30, P-4:30  
C — Goldenrod Revue  
CKLW KFH KMBC KOMA KSL KTSB KVOR WAAB  
WABC WACO WADC WBIG WBT WCAO WCAU  
WCOO WDAE WDBJ WDBO WDDO WDRC WFBL  
WFEA WGST WHAS WHEC WHP WICC WISN WJAS  
WLAC WLWB WMBG WMT WODX WOKO WQAM  
WREC WRSB WSFA WSJS WSPD WTAQ WWVA  
B — Potash and Perimutter, See Monday

ED-8:45 p. m., E-7:45, C-6:45, M-5:45, P-4:45  
B — Slow River—Southernaires Negro Male Quartet  
KDKA KOIL KSO KWCR KWK WBAL WBZ WBAZ  
WCKY WFLA WHAM WIS WJDX WJR WJZ WLS  
WMAL WREN WSB WSM WSMB WSYR WWNC

ED-9:00 p. m., E-8:00, C-7:00, M-6:00, P-5:00  
R — Fred Allen's Revue  
KSD WBN WCHS WEAF WEEI WFBR WGY WJAR  
WLIT WLW WMAQ WRC WTAG WTAM WTIC WWJ  
B — Phil Harris and Orchestra  
KDKA KDYL KFI KGHL KGIR KGO KGW KHQ  
KOA KOIL KOMO KSO KWCR KWK WAPI WBAL  
WBZ WBAZ WCKY WFAA WGAR WJZ WKY WLS  
WMAL WOAI WREN WSB WSM WSMB WSYR  
C — Irvin S. Cobb, See Wednesday

ED-9:15 p. m., E-8:15, C-7:15, M-6:15, P-5:15  
C — Vera Van, See Wednesday

ED-9:30 p. m., E-8:30, C-7:30, M-6:30, P-5:30  
C — Richfield Country Club—Grantland Rice  
WABC WCAO WCAU WDRS WEAN WFBL WGR  
WHEC WHP WICC WJAS WJSV WLWB WMAS  
WNAC WOKO WPG

R — Pond's Program  
KSD WBN WCAE WCHS WDAF WEAF WENR  
WFBR WGY WHO WJAR WLIT WOC WOW WRC  
WSAI WTAG WTAM WTIC WWJ

B — Armour Program with Phil Baker  
KDKA KDYL KOA KOIL KPBC KSO KSTP KWK  
WAPI WBAL WBZ WBAZ WIBC WFAA WGAR  
WHAM WIOD WJAX WJR WJZ WKY WMAQ WMC  
WOAI WREN WRVA WSB WSM WSMB WTMJ WWNC

ED-10:00 p. m., E-9:00, C-8:00, M-7:00, P-6:00  
C — Chesterfield—Lou Holtz, Grace Moore  
KDB KERN KFBK KFH KFPY KFRC KGB KHJ  
KLRA KLZ KMBC KMJ KMOX KOH KOIN KOL  
KOMA KRLD KSL KTRH KTSB KVI KWG WABC  
WADC WBRB WBT WCAO WCAU WCCO WDBJ  
WDRS WDSU WEAN WFBL WFBM WGN WGST  
WHAS WHEC WHK WISN WJAS WJSV WKBW  
WKRC WLAC WLWB WMBG WMT WNAC WOKO  
WOWO WPG WRC WSPD WTAR WTOC WXYZ

R — U. S. Navy Band  
CFRC CRCT KSD WBN WCAE WCHS WDAF  
WEAF WEEI WENR WFBR WFLA WGAR WGY  
WHO WIOD WIS WJAX WLIT WOC WOW WRC  
WRVA WTAG WTAM WTIC WWJ WWNC  
B — First Nighter—Drama  
KDKA KDYL KFI KGO KGW KHQ KOA KOIL  
KOMO KPBC KSTP WAPI WBAL WCKY WDAY  
WHEC WENR WFAA WGAR WJR WJZ WKY WOAI  
WREN WSB WSM WSMB WTMJ

ED-10:30 p. m., E-9:30, C-8:30, M-7:30, P-6:30  
R — Lum and Abner's Sociable  
KSD WBN WCAE WDAF WEAF WENR WFBR  
WGY WHO WKBK WLIT WLW WOC WRC WTAM  
WTIC WTMJ

B — Aldo Ricci and His Phantom Strings  
CFRC CRCT KDKA KDYL KFI KFYR KGO KGW  
KHQ KOA KOIL KOMO KPBC KSO KSTP KTBS  
KTSB KWK WBAL WBAF WCKY WDAY  
WGAR WHAM WIBA WIOD WIS WJAX WJDX WJR  
WJZ WKY WMAL WMC WOAI WREN WRVA WSB  
WSM WSMB WSYR WWNC  
C — Frigidaire Program, See Wednesday

ED-10:45 p. m., E-9:45, C-8:45, M-7:45, P-6:45  
C — Howard Barlow, See Monday

ED-11:00 p. m., E-10:00, C-9:00, M-8:00, P-7:00  
B — Amos 'n' Andy, See Monday

ED-11:30 p. m., E-10:30, C-9:30, M-8:30, P-7:30  
C — Guy Lombardo and Orchestra  
CKLW KFAB KFH KLZ KMBC KMOX KSL KTRH  
KTSB KVOR WABC WACO WADC WBIG WBRB  
WBT WCAO WCAU WCCO WDAE WDBJ WDBO  
WDDO WDRS WEAN WFBL WFBM WFEA WGST  
WHAS WHEC WHP WPIB WICC WISN WJSV  
WLAC WLWB WMBG WMT WODX WOKO WQAM  
WREC WRSB WSFA WSJS WSPD WTAQ WWVA

R — Fred Allen's Revue  
KDYL KFI KFSD KGO KGW KHQ KOA KOMO  
KTAR WBAF

SATURDAY

ED-5:45 p. m., E-4:45, C-3:45, M-2:45, P-1:45  
B — Little Orphan Annie, See Monday

**SATURDAY—(Continued)**

**ED-6:00 p. m., E-5:00, C-4:00, M-3:00, P-2:00**

**R — Walter Logan, See Monday**  
**B — Ernie Holst and Orchestra**  
 KOIL KSO KWCR KWK WBAL WENR WHAM WJR  
 WJZ WMAL WREN WSYR

**ED-6:30 p. m., E-5:30, C-4:30, M-3:30, P-2:30**

**R — Richard Himer, See Thursday**  
**B — O'Leary's Irish Minstrels**  
 KOIL KSO KWCR KWK WBAL WBZ WGAR WHAM  
 WJZ WMAL WMAQ WREN WSYR

**ED-6:45 p. m., E-5:45, C-4:45, M-3:45, P-2:45**

**C — Eddie Duchin and Orchestra**  
 CKLW KFAB KFH KMBC KMOX KOMA KSL KTRH  
 KTRH KTSB KFOR WABC WADC WBJB WBRC  
 WBT WCAO WCAU WCCO WDAE WDBJ WDBO  
 WDDO WDRC WEAN WFBL WFEA WFGT WHSC  
 WHAS WHC WHK WHP WLBW WTCO WISN WJAS  
 WJSV WLAC WLWB WLWZ WMBG WMT WODX  
 WOKO WORC WQAM WREC WSFA WSJS WSPD  
 WTAQ WTAR WTOC WVVV

**ED-7:00 p. m., E-6:00, C-5:00, M-4:00, P-3:00**

**R — Meyer Davis and Orchestra**  
 CRCT KSD KYW WBBN WCAE WDAF WFAF WEEI  
 WFBR WGY WHO WJAR WOC WSAI WTAG  
**B — Ross Peardon, Baritone**  
 KDKA KFYR KOA KPO KPRC KTBS KTHS KVOO  
 KWCR KWK WBAL WCKY WDAY WEBC WFLA  
 WGAR WIBA WIOD WJAZ WJDX WJZ WMAQ  
 WPTF WSM WSMB WNNC

**ED-7:15 p. m., E-6:15, C-5:15, M-4:15, P-3:15**

**C — Mildred Bailey, Songs**  
 CKLW KFH KLZ KMOX KOMA KTRH KTSB KFOR  
 WAAB WABC WADC WBJB WBRC WBT WCAO  
 WCAU WCCO WDAE WDBJ WDBO WDDO WDRC  
 WEAN WFBL WFEA WFGT WHAS WHK WHP WICC  
 WISN WJAS WJSV WLAC WLWB WLWZ WMBG  
 WMT WODX WOKO WORC WQAM WREC WSFA  
 WSJS WSPD WTAQ WTAR WTOC  
**B — Annie, Judy and Zeke, Hillbilly Songs**  
 KDKA KFI KFYR KGO KGW KHQ KOA KOIL  
 KOMO KPRC KSO-KTBS KWCR KWK WAPI WBAL  
 WBZ WBZA WCKY WENR WFLA WGAR WIBA  
 WIOD WIS WJAZ WJR WJZ WKY WMAL WOAI  
 WREN WSM WSMB WSYR WNNC

**ED-7:30 p. m., E-6:30, C-5:30, M-4:30, P-3:30**

**R — Jack and Loretta Clemons, Songs**  
 KDYL KFI KGO KGW KHQ KOA KOMO KSD WBBN  
 WCAE WDAF WFAF WEEI WFBR WFI WGY WHO  
 WJAR WMAQ WOC WRC WSAI WTAG WTAM WWJ  
**B — Kaltenmeyer's Kindergarten**  
 CFCE KFYE KOIL KSO KTBS KWCR KWK KYW  
 WBAL WBPB WCKY WIBA WIOD WIS WJZ WKY  
 WMAL WOAI WREN WSM WSMB WNNC

**ED-7:45 p. m., E-6:45, C-5:45, M-4:45, P-3:45**

**R — Optimistic Mrs. Jones—Sketch**  
 KDYL KFI KGO KGW KHQ KOA KOMO WBBN  
 WCAE WDAF WFAF WEEI WENR WFBR WFI WGY  
 WJAR WOC WRC WSAI WTAG WTAM WWJ  
**B — Evan Evans, Baritone**  
 CKLW KFH KMBC KMOX KOMA KRLD KTRH  
 KTSB KFOR WABC WADC WBJB WBRC WBT  
 WCAO WCCO WDBJ WDBO WDDO WDRC WEAN  
 WFBL WFBM WFEA WFGT WHEC WHK WHP  
 WICC WIP WJAS WJSV WLAC WLWB WLWZ  
 WMBG WMT WNAO WODX WOKO WORC WPG  
 WQAM WREC WSBT WSFA WSJS WSPD WTAQ  
 WTAR WVVV

**ED-8:00 p. m., E-7:00, C-6:00, M-5:00, P-4:00**

**R — Frances Langford, Contralto**  
 KSD WBBN WDAF WFAF WEEI WFBR WGY WJAR  
 WOC WRC WSAI WTAG WWJ  
**B — Jack Denny and Orchestra**  
 CFCE CRCT KDKA KDYL KFI KFYR KGO KGW  
 KHQ KOA KOMO KPRC KSTP KTBS KVOO KWCR  
 WBAL WEBC WFLA WIBA WIOD WIS WJDX WJZ  
 WMAQ WOAI WREN WSM WSMB WNNC

**ED-8:15 p. m., E-7:15, C-6:15, M-5:15, P-4:15**

**C — Casa Loma Orchestra**  
 CFRB CKLW KFH KMBC KMOX KOMA KRLD  
 KTRH KTSB KFOR WABC WADC WBJB WBRC  
 WBT WCAO WCAU WCCO WDAE WDBJ WDBO  
 WDDO WDRC WEAN WFBL WFBM WFEA WFGT  
 WHAS WHEC WHK WHP WLBW WTCO WISN WJAS  
 WJSV WLAC WLWB WLWZ WMBG WMT WODX  
 WOKO WORC WQAM WREC WSFA WSJS WSPD  
 WTAQ WTAR WTOC WVVV

**ED-8:30 p. m., E-7:30, C-6:30, M-5:30, P-4:30**

**C — Jerry Freeman and Orchestra**  
 CKLW KFAB KFH KLZ KMBC KMOX KOMA KSL  
 KTRH KTSB KFOR WABC WADC WBJB WBRC  
 WBT WCAO WCAU WCCO WDAE WDBJ WDBO  
 WDDO WDRC WEAN WFBL WFBM WFEA WFGT  
 WHAS WHEC WHP WLBW WTCO WISN WJAS  
 WJSV WLAC WLWB WLWZ WMBG WMT WODX  
 WOKO WORC WQAM WREC WSFA WSJS WSPD  
 WTAQ WTAR WTOC WVVV

KTRH KTSB KFOR WABC WADC WBJB WBRC  
 WBT WCAO WCAU WCCO WDAE WDBJ WDBO  
 WDDO WDRC WEAN WFBL WFEA WFGT WHEC  
 WHP WICC WJAS WJSV WLAC WLWB WLWZ  
 WMBG WMT WNAO WODX WOKO WORC WQAM  
 WREC WSBT WSFA WSJS WSPD WTAQ WTAR  
 WVVV

**ED-8:30 p. m., E-7:30, C-6:30, M-5:30, P-4:30**

**C — Philadelphia Summer Concerts**  
 CKLW KFAB KFH KMBC KMOX KOMA KRLD KSL  
 KTSB KFOR WABC WADC WBJB WBT WCAO  
 WCAU WCCO WDAE WDBJ WDBO WDDO WDRC  
 WEAN WFBL WFBM WFEA WFGT WHAS WHK  
 WHP WICC WISN WJAS WJSV WLAC WLWB  
 WLWZ WMBG WMT WNAO WODX WOKO WORC  
 WPG WQAM WREC WSBT WSFA WSJS WSPD  
 WTAQ WTAR WVVV

**R — Sous Les Ponts de Paris**

KSD WBBN WDAF WFAF WEEI WFBR WFI  
 WGY WHO WJAR WMAQ WOC WOW WRC WSAI  
 WTAG WTAM WWJ

**ED-9:00 p. m., E-8:00, C-7:00, M-6:00, P-5:00**

**R — Antobal's Cubans**  
 KSD WBBN WCAE WCSH WDAF WFAF WGY WHO  
 WJAR WMAQ WOC WSAI WTAG

**ED-9:15 p. m., E-8:15, C-7:15, M-6:15, P-5:15**

**C — Ann Leaf at Organ—Charles Carlile**  
 CKLW KFAB KFH KMBC KMOX KOMA KRLD KSL  
 KTRH KTSB KFOR WABC WADC WBJB WBRC  
 WBT WCAO WCAU WCCO WDAE WDBJ WDBO  
 WDDO WDRC WEAN WFBL WFBM WFEA WFGT  
 WHAS WHEC WHK WHP WLBW WTCO WISN  
 WJAS WJSV WLAC WLWB WLWZ WMBG WMT  
 WNAO WODX WOKO WORC WQAM WREC WSFA  
 WSJS WSPD WTAQ WTAR WTOC WVVV

**ED-9:30 p. m., E-8:30, C-7:30, M-6:30, P-5:30**

**R — K-7—Drama**  
 KSD WBBN WCAE WCSH WDAF WFAF WEEI  
 WFBR WFI WGY WHO WJAR WMAQ WOC WOW  
 WRC WSAI WTAG WTAM WWJ

**ED-9:45 p. m., E-8:45, C-7:45, M-6:45, P-5:45**

**C — Gertrude Niesen, Songs**  
 CKLW KFAB KFH KLZ KMBC KOMA KRLD KSL  
 KTRH KTSB KFOR WABC WADC WBJB WBRC  
 WBT WCAO WCAU WCCO WDAE WDBJ WDBO  
 WDDO WDRC WEAN WFBL WFBM WFEA WFGT  
 WHAS WHEC WHK WHP WLBW WTCO WISN  
 WJAS WJSV WLAC WLWB WLWZ WMBG WMT  
 WNAO WODX WOKO WORC WQAM WREC WSJS  
 WSPD WTAQ WTAR WTOC WVVV

**ED-10:00 p. m., E-9:00, C-8:00, M-7:00, P-6:00**

**C — Isham Jones and Orchestra**  
 CKLW KFH KLZ KMBC KMOX KOMA KSL KTRH  
 KTSB KFOR WABC WADC WBJB WBRC WBT  
 WCAO WCAU WCCO WDAE WDBJ WDBO  
 WDDO WDRC WEAN WFBL WFBM WFEA WFGT  
 WHAS WHEC WHK WHP WLBW WTCO WISN  
 WJAS WJSV WLAC WLWB WLWZ WMBG WMT  
 WODX WOKO WORC WPG WQAM WREC WSJS  
 WSPD WTAR WTOC WVVV

**R — B. A. Rolfe and Orchestra**

CRCT KDYL KFI KGO KGW KOA KOMO KSD  
 KSTP WBPB WBBN WCAE WCSH WDAF WFAF  
 WEEI WFBR WFI WGY WHO WJAR WJAZ  
 WLW WMAQ WOAI WOC WOW WPTF WRC WRVA  
 WSB WSMB WTAG WTAM WTAM WWJ

**ED-10:30 p. m., E-9:30, C-8:30, M-7:30, P-6:30**

**C — Singing Strings from Montreal**  
 CKLW KLZ KMBC KMOX KOMA KSL KTRH KTSB  
 KFOR WABC WADC WBJB WBRC WBT WCAO  
 WCAU WCCO WDAE WDBJ WDBO WDDO  
 WDRC WEAN WFBL WFBM WFEA WFGT WHAS  
 WHEC WHP WLBW WTCO WISN WJAS WJSV  
 WLAC WLWB WLWZ WMBG WMT WODX WOKO  
 WORC WPG WQAM WREC WSJS WSPD WTOC  
 WVVV

**B — Cuckoo Program with Raymond Knight**

KSO KWCR KYW WBAL WCKY WGAR WHAM  
 WJR WJZ WMAL WREN WSYR

**ED-11:00 p. m., E-10:00, C-9:00, M-8:00, P-7:00**

**C — Jerry Freeman and Orchestra**  
 CKLW KFAB KFH KLZ KMBC KMOX KOMA KSL  
 KTRH KTSB KFOR WABC WADC WBJB WBRC

**SATURDAY—(Continued)**

WBT WCAO WCAU WCCO WDAE WDBJ WDBO  
WDOD WDRC WEAN WFBL WFRM WFEA WGST  
WHAS WHEC WHP WIBC WICC WJAS WJVS WLAC  
WLBW WLBZ WMBD WMBG WMBG WODX WOKO  
WORC WQAM WREC WWSB WSJS WSPD WTOG

**R—George Olsen and Orchestra**  
CFCF CRCT KDYL KEI KFJR KGO KGW KHQ  
KOA KOMO KPRC KSD KSTP KTBS KYW WBAP  
WBEN WCAE WDBC WDAF WDAY WYAF WZCZ  
WEEI WFBR WFI WFLL WGY WIBA WIOD WIS  
WJAR WJDX WJY WMC WOA1 WOV WRC WSA1  
WSB WSMB WTAG WTAM WWJ WWNC

**B—The Leaders—Male Trio**  
KOIL KSO KWCR WBAL WCKY WHAM WJZ WLW  
WMAQ WREN WSYR

**ED-11:30 p. m., E-10:30, C-9:30, M-8:30, P-7:30**  
**C—Charlie Davis, See Wednesday**

**SUNDAY**

**ED-11:15 a. m., E-10:15, C-9:15, M-8:15, P-7:15**  
**R—Major Bowes' Family**

KDYL KFJR KOA KPRC KSTP KTBS KVOO WAPI  
WCAE WDAF WDAY WFAF WZCZ WFAA WFBR  
WFLA WGY WHO WIOD WJAR WJAX WKY WMAQ  
WMC WOA1 WOC WRC WRVA WSA1 WSMB WTAG

**ED-11:30 a. m., E-10:30, C-9:30, M-8:30, P-7:30**  
**C—Salt Lake City Tabernacle Choir**

CKLW KFH KLZ KMBC KRLD KSL KTRH KTSK  
KVOR WABC WACO WADC WBBM WBRC WBT WCAO  
WCCO WDAE WDBJ WDOD WDRC WDSU WFBL  
WFEA WHAS WHEC WHP WHP WIBW WKBN  
WLAC WLBW WMBD WMT WOKO WORC WPG  
WREC WSBT WSPD WTAQ

**ED-12:15 p. m., E-11:15, C-10:15, M-9:15, P-8:15**  
**B—Radio City Concert**

CFCF CRCT KDKA KDYL KFSD KFJR KGO KHQ  
KOA KOIL KOMO KPRC KSO KSTP KTAR KVOO  
KWCR KWK WAPI WBAL WBAP WBBZ WBZA WYAF  
WDAY WZCZ WENR WFLA WGAR WHAM WIBA  
WIOD WIS WJAX WJDX WJZ WLW WMAL WMC  
WOA1 WREN WSB WSMB

**ED-12:30 p. m., E-11:30, C-10:30, M-9:30, P-8:30**  
**C—New World Salon Orchestra**

CKLW KFH KLZ KMBC KMOX KTRH KTSK KVOR  
WABC WACO WADC WBBM WBRC WCAU WVO  
WDAE WDOD WDSU WFBL WFEA WHAS WHP  
WIBW WISN WJAS WKBN WLAC WLBW WMBD  
WMT WOKO WORC WPG WQAM WREC WSBT  
WSFA WSPD WTAQ

**R—International Tid Bits**  
WBEN WCHS WDAF WFAF WEEI WFBR WFI WGY  
WHO WJAR WOC WRC WSA1 WTAG WTAM

**ED-12:00 p. m., E-12:00, C-11:00, M-10:00, P-9:00**  
**C—Fred Feibel at the Organ**

CKLW KFH KLRA KLZ KSL KTRH KTSK KVOR  
WAAB WABC WACO WADC WBBM WBRC WBT  
WCAO WCAU WCCO WDAE WDBJ WDOD WDRC  
WDSU WFBL WHAS WHEC WHP WIBW WISN  
WJAS WKBN WLAC WLBW WMBD WMT WOKO  
WPG WQAM WREC WSBT WSJS WSPD WTAQ

**R—Sonata Recital**  
WBEN WCAE WDAF WFAF WEEI WENR WFBR  
WFI WGY WHO WJAR WOC WRC WSA1 WTAG

**ED-1:15 p. m., E-12:15, C-11:15, M-10:15, P-9:15**  
**B—Ralph Ginsberg's Ensemble**

CFCF CRCT KDKA KDYL KEI KFJR KGO KGW  
KHQ KOA KOIL KOMO KPRC KSO KVOO WAPI  
WBAL WBZ WBZA WCKY WDAY WGAR WHAM  
WIS WJDX WJR WJZ WKY WMAL WOA1 WREN  
WSMB WSYR WWNC

**ED-1:30 p. m., E-12:30, C-11:30, M-10:30, P-9:30**  
**C—Compinsky Trio**

CKLW KFH KLZ KMBC KSL KTRH KTSK KVOR  
WAAB WABC WACO WADC WBBM WBRC WBT  
WCAO WCAU WCCO WDAE WDOD WDRC WDSU  
WHAS WHEC WIBW WISN WJAS WKBN WLAC  
WLBW WMBD WMT WOKO WPG WQAM WREC  
WSBT WSJS WSPD WTAQ WTAR WVVVA

**R—L'Heure Exquise**  
CFCF CRCT WBEN WCAE WCHS WDAF WFAF

WEEI WFBR WFI WGY WHO WJAR WLW WMAQ  
WOC WRC WTAG WTAM WWJ

**B—High Lights of the Bible**  
KDKA KDYL KEI KFJR KGHL KGIR KGO KGW  
KOA KOIL KOMO KPRC KSO KVOO KWK WAPI  
WBAL WBZ WBZA WDAY WZCZ WHAM WIOD WIS  
WJAX WJDX WJR WJZ WMAL WOA1 WREN WRVA  
WSM WSMB WSYR WWNC

**ED-2:00 p. m., E-1:00, C-12:00, M-11:00, P-10:00**  
**C—John Kelvin, Tenor**

CFRB CKLW KFH KLZ KMBC KSL KTRH KTSK  
KVOR WABC WACO WADC WBBM WBRC WBT  
WCAO WCAU WCCO WDAE WDOD WDRC  
WDSU WFBL WFBM WFEA WHP WHT WIBW WISN  
WJAS WKBN WLAC WLBW WMT WOKO WORC  
WQAM WSBT WSJS WSPD WTAQ WVVVA

**ED-2:15 p. m., E-1:15, C-12:15, M-11:15, P-10:15**  
**C—The Playboys**

CKLW KFH KLZ KMBC KMOX KTRH KTSK KVOR  
WABC WACO WADC WBBM WBRC WBT WCAO  
WCAU WDOD WDRC WDSU WFBL WFBM WFEA  
WHAS WIBW WISN WJAS WKBN WLAC WLBW  
WMT WOKO WORC WQAM WSBT WSJS WSPD

**R—Pop Concert—Walter Logan**  
CFCF CRCT KSD WBEN WCAE WCKY WCHS  
WDAF WFAF WEEI WFBR WGY WHO WJAR WMAQ  
WOC WOV WRC WSA1 WTAG WTAM WWJ

**ED-2:30 p. m., E-1:30, C-12:30, M-11:30, P-10:30**  
**C—Manhattan Meeds—Do Re Mi Trio**

CKLW KFH KLZ KMBC KMOX KTRH KTSK KVOR  
WABC WACO WADC WBBM WBRC WBT WCAO  
WCAU WCCO WDAE WDOD WDRC WDSU  
WFBL WFEA WHP WIBW WISN WJAS WKBN WLAC  
WLBW WMBG WMT WOKO WORC WQAM WSBT  
WSJS WSPD WTAQ WVVVA

**B—Yeast Foamers—Jan Garber's Orchestra**

KDKA KDYL KEI KFSD KFJR KGHL KGIR KGO  
KGW KHQ KOA KOIL KOMO KPRC KSO KSTP  
KTAR KTBS KTHS KVOO KWCR KWK KYW WAPI  
WBAL WBZ WBZA WDAY WZCZ WFAA WFLA  
WGAR WHAM WIBA WIOD WIS WJAX WJDX WJR  
WJZ WKY WLW WMAL WOA1 WPTF WREN WRVA  
WSB WSM WSMB WSYR WTMJ WWNC

**ED-3:00 p. m., E-2:00, C-1:00, M-12:00, P-11:00**  
**C—Howard Barlow and Symphony Orchestra**

CKLW KFH KLZ KMBC KMOX KTRH KTSK KVOR  
WABC WACO WADC WBBM WBRC WBT WCAO  
WCAU WCCO WDAE WDOD WDSU WFBL WFBM  
WFEA WHAS WHP WIBW WISN WJAS WKBN  
WLAC WLBW WMBD WMBG WMT WOKO WORC  
WQAM WREC WSBT WSJS WSPD WTAQ

**R—Wayne King and Orchestra**  
KDYL KEI KGO KGW KEQ KOA KOMO KPRC  
KSD KSTP KVOO WBEN WCAE WCHS WFAF WEEI  
WFAA WGY WHO WJDX WJR WKY WLIT WLS  
WLW WMC WOA1 WOC WOV WRC WSB WSM  
WSMB WTAG WTAM WTMJ WWJ

**B—National Opera Concert**

CFCF CRCT KDKA KOIL KSO KWCR KWK WBAL  
WBZ WBZA WCKY WFLA WGAR WIOD WIS WJAX  
WJR WJZ WMAL WREN WRVA WSYR WWNC

**ED-4:00 p. m., E-3:00, C-2:00, M-1:00, P-12:00**  
**C—Cathedral Hour**

CKLW KFH KLZ KMBC KMOX KRLD KSL KTRH  
KTSK KVOR WABC WADC WBBM WBRC WBT  
WCAO WCAU WCCO WDAE WDOD WDRC WDSU  
WFBL WFBM WFEA WHAS WHP WHP WIBW  
WISN WJAS WKBN WLAC WLBW WMBD WMBG  
WMT WOKO WORC WQAM WREC WSBT WSJS  
WSPD WTAQ

**ED-4:15 p. m., E-3:15, C-2:15, M-1:15, P-12:15**  
**R—Wildroot—Vee and Johnny**

KDYL KEI KFJR KGO KGW KHQ KOA KOMO  
KPRC KSTP KTBS KVOO WBEN WCAE WCHS  
WDAF WDAY WFAF WZCZ WEEI WFAA WFBR  
WGY WIBA WJAR WKY WLIT WLS WOA1 WOV  
WRC WSA1 WTAG WTAM WTMJ WWJ

**B—Symphonette—Cyril Pitts, Tenor**

CFCF CRCT KDKA KOIL KSO KWCR KWK KYW  
WAPI WBAL WCKY WFLA WGAR WHAM WIOD  
WJAX WJR WJZ WMAL WMC WREN WRVA WSB  
WSM WSMB WSYR WWNC

SUNDAY—(Continued)

ED-4:30 p.m., E-3:30, C-2:30, M-1:30, P-12:30

R — Temple of Song

KSD WBEN WCAE WCSH WDAF WEAF WEEI WENR WFBR WFI WGY WHO WJAR WLW WMAQ WOC WOW WRC WSAI WTAG WTAM WWJ

ED-5:00 p.m., E-4:00, C-3:00, M-2:00, P-1:00

C — Willard Robinson Synopated Sermons

CKLW KFH KLZ KMBC KMOX KRLLD KTRH KTSa KVR WABC WADC WBDG WBBC WBT WCAO WCAU WCOO WDAE WDOD WDRG WDSU WFLB WFBM WFEA WHAS WHBK WHP WIBW WISN WJAS WKBN WLAC WLWB WMBD WMBG WMT WOKO WORC WQAM WREC WSBT WSPA WSJS WSPD WTAQ

B — The Friendly Hour

KDYL KFSB KFVR KGHL KGIR KGO KGW KHQ KOA KOIL KPRC KSO KSTP KTAR KTBS KVOO KWCR KWK WBAL WBEZ WWBZ WCFB WCKY WDAY WEBC WFLA WGAR WHAM WIOD WIS WJAX WJDX WJR WJZ WKY WMAL WMC WOAI WPTF WRVA WSB WSMB WSYR WWNC

ED-5:15 p.m., E-4:15, C-3:15, M-2:15, P-1:15

C — Vera Van, Contralto

CKLW KFH KLZ KMBC KMOX KRLLD KTRH KTSa KVR WABC WADC WBDG WBBC WBT WCAO WCAU WCOO WDAE WDOD WDRG WDSU WFLB WFBM WFEA WHAS WHBK WHP WIBW WISN WJAS WKBN WLAC WLWB WMBD WMBG WMT WOKO WORC WQAM WREC WSBT WSJS WSPD WTAQ

ED-5:30 p.m., E-4:30, C-3:30, M-2:30, P-1:30

C — Frank Crumit and Julia Sanderson

CKLW KFAB KFH KMBC KMOX KOMA WAAB WABC WADC WCAH WCAO WCAU WDRG WDSU WEAN WFBL WFBM WGR WHAS WHEC WHK WICC WJSV WMA5 WOKO WORC WSPD WTR

ED-6:00 p.m., E-5:00, C-4:00, M-3:00, P-2:00

C — Eddie Duchin and Orchestra

CKLW KFH KLZ KMBC KMOX KRLLD KSL KTRH KTSa KVR WABC WADC WBBM WBIG WBRC WBT WCAU WCOO WDAE WDOD WDRG WDSU WFLB WFEA WHK WHP WIBW WIP WJAS WKBN WKBW WLAC WLWB WMT WOKO WORC WPG WQAM WREC WSBT WSJS WSPD WTAQ WVVVA

R — Catholic Hour

KDYL KECA KFVR KGHL KGIR KGW KOA KOMO KPO KPRC KSTP KTAR KTBS KVOO WAPI WBAP WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WENR WFBR 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 — Light Opera

CFCF CRCT KDKA KOIL KSO KWCR KWK WCKY WENR WGAR WHAM WJR WJZ WLW WMAL WMAQ WREN WSYR

ED-6:30 p.m., E-5:30, C-4:30, M-3:30, P-2:30

C — Roses and Drums

CKLW KFH KLZ KMBC KMOX KRLLD KSL KTRH KTSa KVR WAAB WABC WADC WBBM WBIG WBRC WBT WCAO WCAU WCOO WDOD WDRG WDSU WFLB WFBM WFEA WHEC WHK WHP WIBW WIP WJAS WKBN WLAC WLWB WMT WOKO WORC WQAM WREC WSBT WSJS WSPD WTAQ

ED-7:00 p.m., E-6:00, C-5:00, M-4:00, P-3:00

C — The Gauchos; Tito Guizar, Tenor

CKLW KFH KLZ KSL KTRH KTSa KVR WABC WACO WADC WBBM WBIG WBRC WBT WCAO WCAU WCOO WDAE WDOD WDRG WDSU WFLB WFEA WHAS WHEC WHP WIBW WISN WJAS WKBN WLAC WLWB WOKO WORC WQAM WREC WSBT WSJS WSPD WTAQ WVVVA

R — Countess Olga Albani

KSD WSH WDAF WEAF WEEI WFBR WGY WJAR WMAQ WSAI WTAG WTAM WWJ

ED-7:15 p.m., E-6:15, C-5:15, M-4:15, P-3:15

R — Horse Sense Philosophy—Andrew Kelly

KSD WBEN WCAE WCSH WDAF WEAF WEEI WGY WJAR WMAQ WSAI WTAG WWJ

ED-7:30 p.m., E-6:30, C-5:30, M-4:30, P-3:30

C — John Henry—Black River Giant

CKLW KFH KLZ KMBC KMOX KSL KTRH KTSa

KVR WABC WACO WADC WBBM WBIG WBRC WBT WCAO WCAU WCOO WDAE WDOD WDRG WDSU WFBL WFBM WFEA WHAS WHEC WHP WIBW WIP WISN WJAS WKBN WLAC WLWB WOKO WORC WPG WQAM WREC WSBT WSJS WSPD WTAQ WVVVA

ED-7:45 p.m., E-6:45, C-5:45, M-4:45, P-3:45

C — Chicago Variety Program

CKLW KLZ KMBC KMOX KTRH KVR WABC WACO WADC WBBM WBIG WBRC WBT WCAO WCAU WCOO WDOD WDRG WDSU WFLB WFBM WFEA WHAS WHP WISN WJAS WKBN WLAC WLWB WOKO WORC WPG WQAM WREC WSBT WSJS

ED-8:00 p.m., E-7:00, C-6:00, M-5:00, P-4:00

R — Chase and Sanborn Hour

CFCF CRCT KDYL KEI KFVR KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTAR KTBS KVOO WAPI WBEN WCAE WCSH WDAF WDAY WEAF WEBC WFAA WFBR WFLA WGAR WGY WHO WIOD WIS WJAX WJDX WKY WLIT WLW WMAQ WMC WOAI WOC WOW WPTF WRC WRVA WSB WSM WSMB WTAG WTAM WTIC WTMJ WWJ

ED-8:15 p.m., E-7:15, C-6:15, M-5:15, P-4:15

C — John Henry—Black River Giant

CKLW KFH KLZ KMBC KMOX KSL KTRH KTSa KVR WABC WACO WADC WBIG WBRC WBT WCAO WCAU WCOO WDAE WDOD WDRG WDSU WFLB WFBM WFEA WHAS WHEC WHP WIBW WISN WJAS WKBN WLAC WLWB WMT WOKO WORC WQAM WREC WSJS WSPD WTAQ WVVVA

ED-8:30 p.m., E-7:30, C-6:30, M-5:30, P-4:30

C — Philadelphia Concert, See Saturday

ED-9:00 p.m., E-8:00, C-7:00, M-6:00, P-5:00

R — Manhattan Merry-Go-Round

KDYL KFI KGO KGW KHQ KOA KOMO KSD WDAF WEAF WENR WFBR WFI WGY WHO WJAR WOC WOW WRC WSAI WTAM WTIC WWJ

B — Gulf Headliners—Revelers Quartet

KDKA KPRC KTBS KTHS KVOO WAPI WBAL WBEZ WBZA WFAA WFLA WGAR WHAM WIOD WIS WJAX WJDX WJR WJZ WLW WMAL WMC WOAI WPTF WRVA WSB WSM WSMB WSYR WWNC

ED-9:30 p.m., E-8:30, C-7:30, M-6:30, P-5:30

R — American Album of Familiar Music

CFCF KDYL KEI KGO KGW KHQ KOA KOMO KPRC KSD KSTP KVOO WBEN WCAE WCKY WCSH WDAF WEAF WEEI WENR WFAA WFBR WFI WFLA WGY WHO WIOD WJAR WJAX WJDX WKY WMC WOAI WOC WOW WPTF WRC WRVA WSAI WSB WSMB WTAG WTAM WTMJ WWJ

ED-10:00 p.m., E-9:00, C-8:00, M-7:00, P-6:00

R — Col. Louis McHenry Howe

KDYL KFI KFVR KGHL KGIR KGO KGW KHQ KOA KOMO KPRC KSD KSTP KVOO WBEN WCAE WCSH WDAF WDAY WEAF WEBC WFAA WFBR WFI WGY WHO WIBA WJAR WKY WMAQ WMC WOAI WOC WOW WRC WSAI WSB WSMB WTAG WTAM WTIC WTMJ WWJ

ED-10:30 p.m., E-9:30, C-8:30, M-7:30, P-6:30

B — Green Brothers Novelty Orchestra

CFCF KDKA KSO KWCR KWK WBAL WBEZ WBZA WCKY WFLA WGAR WHAM WIOD WIS WJAX WJR WJZ WLW WMAQ WREN WRVA WSYR WWNC

ED-10:45 p.m., E-9:45, C-8:45, M-7:45, P-6:45

R — Sunday at Seth Parker's

CFCF KDYL KFSB KFVR KGHL KGIR KGO KGW KHQ KOA KOMO KPRC KSD KSTP KATR KTBS KYW WAPI WBEN WCAE WCSH WDAF WDAY WEAF WEBC WEEI WFAA WFBR WFI WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WMC WOAI WOC WOW WPTF WRC WRVA WSAI WSB WSMB WTAG WTAM WTMJ WWJ WWNC

ED-11:00 p.m., E-10:00, C-9:00, M-8:00, P-7:00

C — Guy Lombardo and Orchestra

CKLW KFH KLZ KMBC KMOX KSL KTRH KTSa KVR WABC WACO WADC WBIG WBRC WBT WCAO WCOO WDAE WDBJ WDOD WDRG WDSU WFLB WFBM WFEA WHAS WHEC WHP WIBW WIP WISN WJAS WKBN WLAC WLWB WMBD WMT WOKO WQAM WREC WSBT WSJS WSPD

# CLASSIFIED INDEX TO CHAIN PROGRAMS

*Time in Eastern Daylight Saving*

## BANDS

U. S. Army, 11:30 p. m., Thursday, B.  
U. S. Marine, 9:30 p. m., Thursday, C.  
U. S. Navy, 10:00 p. m., Friday, R.

## CONCERTS

Howard Barlow, 3:00 p. m., Sunday; 10:45 p. m., Mon. Wed., Fri., C.  
Concert Footlights, 7:15 p. m., Thursday, B.  
Gauchos, 7:00 p. m., Sunday, C.  
Ralph Ginsberg's Ensemble, 1:15 p. m., Sunday, B.  
Impressions of Italy, 10:15 p. m., Sunday, R.  
Juels Lande, 7:00 p. m., Sunday, B.  
L'Heure Exquise, 1:30 p. m., Sunday, R.  
Light Opera, 6:00 p. m., Sunday, B.  
Light Opera Gems, 10:45 p. m., Tuesday, C.  
Walter Logan, 2:15 p. m., Sunday; 6:00 p. m., daily, except Sunday, R.  
National Opera, 3:00 p. m., Sunday, B.  
New World Salon Orchestra, 12:30 p. m., Sunday, C.  
Pastorale, 8:00 p. m., Tuesday, B.  
Philadelphia Summer Concert, 8:30 p. m., Sat. and Sun., C.  
Philharmonic Symphony, 9:00 p. m., Tuesday; 8:45 p. m., Wednesday, B.  
Pollikoff Novelty Ensemble, 6:30 p. m., Sunday, R.  
Radio City Concert, 12:15 p. m., Sunday, B.  
Aldo Ricci, Phantom Strings, 10:30 p. m., Fri., B.  
Russian Symphonic Choir, 7:30 p. m., Sunday, R.  
Sonata Recital, 1:00 p. m., Sunday, R.  
Summer Idyll, 2:00 p. m., Sunday, B.  
Symphonette, 4:15 p. m., Sunday, B.

## DANCE BANDS

Paul Ash, 5:00 p. m., Sunday, R.  
Ben Bernie, 9:00 p. m., Tuesday, R.  
Casa Loma Orchestra, 11:45 p. m., Monday; 8:15 p. m., Saturday, C.  
Reggie Childs, 6:00 p. m., Wednesday and Thursday, B.  
Dance Time, 7:15 p. m., Tues. and Thurs., C.  
Charlie Davis, 11:30 p. m., Wed. and Sat., C.  
Meyer Davis, 7:00 p. m., Saturday, R.  
Jack Denny, 11:30 p. m., Monday, R.; 11:30 p. m., Wednesday; 8:00 p. m., Saturday, B.  
Eddie Duchin, 6:00 p. m., Sunday; 6:45 p. m., Saturday, C.  
Jerry Freeman, 11:30 p. m., Sunday; 11:00 p. m., Sat., C.  
Jan Garber, 2:30 p. m., Sunday, B.  
Green Brothers, 10:30 p. m., Sunday, B.  
Ferde Grofe's Orchestra, 8:45 p. m., Monday; 9:00 p. m., Wednesday and Friday, R.  
Gus Haenschen's Orchestra, 10:30 p. m., Monday, R.  
George Hall, 6:15 p. m., Friday, C.  
Phil Harris, 9:00 p. m., Friday, B.  
Richard Himber, 6:30 p. m., Thurs. and Sat., R.; 6:00 p. m., Mon.; 7:30 p. m., Wed., B.  
Ernie Holst, 11:30 p. m., Tuesday; 6:00 p. m., Saturday, B.  
Isham Jones, 12 Mid., Sunday; 11:30 p. m., Tuesday; 6:45 p. m., Thurs.; 10:00 p. m., Sat., C.  
Wayne King, 3:00 p. m., Sunday; 8:30 p. m., Tuesday, R.; 9:30 p. m., Thursday, B.  
Guy Lombardo, 11:00 p. m., Sunday; 9:30 p. m., Wednesday; 11:30 p. m., Fri., C.  
Dolph Martin, 7:30 p. m., Mon., Wed., Fri., C.  
Freddie Martin, 6:15 p. m., Mon.; 11:45 p. m., Thurs., C.  
Dick Messner, 11:30 p. m., Sunday; 6:00 p. m., Tuesday, B.  
Mill's Blue Rhythm, 12 Mid., Wed. and Fri., B.  
George Olsen, 8:00 p. m., Wednesday; 11:00 p. m., Saturday, R.; 7:30 p. m., Friday, B.  
Barney Rapp, 6:45 p. m., Tues.; 12 Mid., Sat., C.  
Freddie Rich, 10:30 p. m., Sunday, C.  
Willard Robison, 5:00 p. m., Sun.; 10:00 p. m., Thurs., C.  
Buddy Rogers, 11:15 p. m., Mond. and Wed., R.  
B. A. Rolfe, 10:00 p. m., Saturday, R.  
William Scotti, 11:30 p. m., Saturday, B.  
Rudy Vallee, 8:00 p. m., Thursday, R.  
Buddy Wagner, 6:00 p. m., Wednesday, C.  
Fred Waring, 10:00 p. m., Wednesday, C.  
Paul Whiteman, 10:00 p. m., Thursday, R.

## DIALOG

Fred Allen, 9:00 and 11:00 p. m., Friday, R.  
Amos 'n' Andy, 7:00 and 11:00 p. m., daily, ex. Saturday and Sunday, B.  
Phil Baker, 9:30 p. m., Friday, B.  
Bertie and Betty, 11:00 p. m., Sunday, B.  
Burns and Allen, 9:30 p. m., Wednesday, C.  
Cuckoo Program, 10:30 p. m., Saturday, B.  
Lou Holtz, 10:00 p. m., Friday, C.  
Just Relax, Comedy, 6:45 p. m., Friday, R.  
Lum and Abner, 7:30 and 11:15 p. m., Mon., Tues., Wed., and Thurs., 10:30 p. m., Fri., R.  
One Man's Family, 9:30 p. m., Wednesday, R.  
Optimistic Mrs. Jones, 7:45 p. m., Saturday, R.  
Potash and Perlmutter, 8:30 p. m., Mon., Wed., and Fri., B.

## DRAMA

Columbia Dramatic Guild, 8:30 p. m., Thursday, C.  
Death Valley Days, 9:00 p. m., Thursday, B.  
Drake's Drums, 6:30 p. m., Monday, R.  
First Nighter, 10:00 p. m., Friday, B.  
The Goldbergs, 7:45 p. m., daily, except Sat. and Sun., R.  
John Henry, 7:30 and 8:15 p. m., Sunday, C.  
K-7, 9:30 p. m., Saturday, R.  
Miss Lilla, 10:30 p. m., Tuesday, B.  
Roses and Drums, 6:30 p. m., Sunday, C.  
Soconyland Sketches, 8:00 p. m., Monday, R.  
Theatre of Today, 9:30 p. m., Monday, C.  
Wisdom of the Ages, 7:30 p. m., Sunday, B.

## PIANO AND ORGAN

Fred Feibel, 1:00 p. m., Sunday, C.  
Archer Gibson, 10:30 p. m., Thursday, B.  
Morton Gould and Bert Sheffer, 6:30 p. m., Friday, R.; 4:00 p. m., Sunday; 8:45 p. m., Monday, B.  
Dion Kennedy, 4:30 p. m., Sunday, B.  
Vee Lawnhurst, 4:15 p. m., Sunday, R.  
Ann Leaf, 9:15 p. m., Saturday, C.  
Ohman and Arden, 10:30 p. m., Monday, R.  
Playboys, 2:15 p. m., Sunday, C.

## POPULAR PROGRAMS

A. & P. Gypsies, 9:00 p. m., Monday, R.  
American Album Familiar Music, 9:30 p. m., Sunday, R.  
Antobal's Cubans, 9:00 p. m., Sat., R.; 11:45 a. m., Sun., B.  
Armour Program, 9:30 p. m., Friday, B.  
Blackstone Plantation, 8:00 p. m., Tuesday, R.  
Major Bowes' Family, 11:15 a. m., Sunday, R.  
California Melodies, 10:00 p. m., Tuesday, C.  
Chase and Sanborn, 8:00 p. m., Sun.; 8:00 p. m., Wed., R.  
Chesterfield, 10:00 p. m., Friday, C.  
Chicago Variety, 7:45 p. m., Sunday, C.  
Cities Service Concert, 8:00 p. m., Friday, R.  
Contented Program, 10:00 p. m., Monday, R.  
Capt. Dobbsie's Ship of Joy, 10:30 p. m., Wed., R.  
Fiddlers Three, 4:00 p. m., Sunday, R.  
Fleischmann Hour, 8:00 p. m., Thursday, R.  
Frigidaire, 10:30 p. m., Wednesday and Friday, C.  
Jack Frost's Melody Moments, 9:30 p. m., Monday, B.  
Household Musical Memories, 10:00 p. m., Tuesday, B.  
Kaltenmeyer's Kindergarten, 7:30 p. m., Saturday, B.  
Lum and Abner's 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. and 1:00 a. m., Thursday, R.  
Neslie'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., Mon., B.; 9:30 p. m., Friday, C.  
Sineclair Minstrels, 9:00 p. m., Monday, B.  
Singing Strings, 10:30 p. m., Saturday, C.  
Texaco Fire Chief, 9:30 p. m., Tuesday, R.  
Yeast Foamers, 2:30 p. m., Sunday, B.

## RELIGIOUS

Cathedral Hour, 4:00 p. m., Sunday, C.  
 Catholic Hour, 6:00 p. m., Sunday, R.  
 Friendly Hour, 5:00 p. m., Sunday, B.  
 High Lights of the Bible, 1:30 p. m., Sunday, B.  
 Mid-Week Hymn Sing, 6:30 p. m., Tuesday, R.  
 Old Songs of the Church, 6:30 p. m., Thursday, B.  
 Seth Parker's, 10:45 p. m., Sunday, R.  
 Radio Pulpit, 3:30 p. m., Sunday, R.  
 Salt Lake Tabernacle Choir, 11:30 a. m., Sunday, C.  
 Temple of Song, 4:30 p. m., Sunday, R.

## SINGERS

Countess Olga Albani, 7:00 p. m., Sunday; 7:15 p. m., Thursday, R.  
 Annie, Judy and Zeke, 7:15 p. m., Saturday, B.  
 Mildred Bailey, 10:30 p. m., Sunday; 6:30 p. m., Thursday; 7:15 p. m., Saturday, C.  
 Betty Barthell, 6:15 p. m., Tues.; 9:30 p. m., Fri., C.  
 Fanny Brice, 8:00 p. m., Wednesday, R.  
 Charles Carlie, 8:00 p. m., Tuesday; 8:15 p. m., Wednesday; 9:15 p. m., Saturday, C.  
 Jack and Loretta Clemens, 7:30 p. m., Saturday, R.  
 Corn Cob Pipe Club, 10:00 p. m., Wednesday, R.  
 Do Re Mi Trio, 2:30 p. m. and 10:30 p. m., Sunday, C.  
 Morton Downey, 7:00 p. m., Wednesday and Thursday, C.  
 Jessica Dragonette, 8:00 p. m., Friday, R.  
 Evan Evans, 10:00 p. m., Mon.; 8:00 p. m., Sat., C.  
 John L. Fogarty, 11:15 p. m., Saturday, B.  
 Four Horsemen, 11:15 p. m., Sunday, B.  
 Jane Froman, 10:30 p. m., Friday, C.  
 Tito Guizar, 7:00 p. m., Sunday, C.  
 Gypsy Nina, 7:00 p. m., Tuesday, C.  
 Annette Hanshaw, 9:00 p. m. and 1:00 a. m., Thursday, R.  
 Happy Bakers, 8:00 p. m., Mon., Wed., Fri., C.  
 Ray Heatherton, 7:45 p. m., Tuesday, B.  
 Shirley Howard, 6:45 p. m., Tuesday, R.  
 Al Jolson, 10:00 p. m., Thursday, R.  
 John Kelvin, 2:00 p. m., Sunday, C.  
 Frances Langford, 8:00 p. m., Saturday, R.  
 Leaders, Male Trio, 11:00 p. m., Saturday, B.  
 Little Jack Little, 10:30 p. m., Mon.; 11:15 p. m., Tues., C.  
 Ruth Lyon, 10:30 p. m., Wednesday, B.  
 Major, Sharp and Minor, 9:15 p. m., Wed., R; 10:30 p. m., Sun.; 11:15 p. m., Mon., B.  
 Manhattan Serenaders, 9:00 p. m., Monday, C.  
 Howard Marsh, 10:30 p. m., Wednesday, C.  
 Nino Martini, 9:30 p. m., Tuesday, C.  
 Mills Brothers, 9:00 p. m., Thursday, C.  
 Modern Male Chorus, 8:45 p. m., Monday, C.

Grace Moore, 10:00 p. m., Friday, C.  
 Helen Morgan, 11:30 p. m., Thursday, R.  
 Frank Munn, 9:30 p. m., Sunday, R.  
 Kathryn Newman, 6:30 p. m., Tuesday, B.  
 Gertrude Niesen, 9:45 p. m., Saturday, C.  
 Ross Pearson, 7:00 p. m., Saturday, B.  
 John Pierce, 6:45 p. m., Wednesday, R.  
 Phil Regan, 11:15 p. m., Mon. and Thurs., C.  
 Reis and Dunn, 6:00 p. m., Mon. and Tues., C.  
 Revelers, 9:00 p. m., Sunday, B.  
 Gladys Rice, 10:00 p. m., Mon.; 8:00 p. m., Tues.; 10:45 p. m., Thurs., C.  
 Rollickers, 7:00 p. m., Friday, R.  
 Lanny Ross, 9:00 p. m. and 1:00 a. m., Thursday, R.  
 Sanderson-Crumit, 8:00 p. m., Tues., R; 5:30 p. m., Sun., C.  
 Ethel Shutta, 8:00 p. m., Friday, B.  
 Singin' Sam, 8:15 p. m., Monday, C.  
 Sizzlers Male Trio, 8:30 p. m., Mon.; 7:00 p. m., Tues. and Thurs., R.  
 Kate Smith, 8:30 p. m., Mon., Tues., Wed., C.  
 Southernaires, 8:45 p. m., Friday, B.  
 Conrad Thibault, 8:45 and 10:30 p. m., Monday; 9:00 p. m., Wednesday, R.  
 Three X Sisters, 6:30 p. m., Wednesday, B.  
 Vera Van, 5:15 p. m., Sunday; 9:15 p. m., Wed. and Fri., C.  
 Vee and Johnny, 4:15 p. m., Sunday, R.  
 Ethel Waters, 12 Mid., Wednesday and Friday, B.

## TALKS

Back of the News, 6:30 p. m., Wednesday, R.  
 Dale Carnegie, 5:30 p. m., Sunday, R.  
 Boske Carter, 7:45 p. m., daily, except Sat. and Sun., C.  
 Irvin S. Cobb, 9:00 p. m., Wed. and Fri., C.  
 Floyd Gibbons, 8:45 and 11:15 p. m., Tues., Thurs., and Sun., B.  
 Gulf Headlines, 9:00 p. m., Sunday, B.  
 Horlick's Health Talks, 8:30 and 11:45 p. m., Tues., B.  
 Col. Louis McHenry Howe, 10:00 p. m., Sunday, R.  
 Ted Husing, 10:30 p. m., Tues. and Thurs.; 6:45 p. m., Wed., C.  
 Andrew Kelly, 7:15 p. m., Sunday, R.  
 N. R. A. Program, 11:30 p. m., Thursday, C.  
 National Radio Forum, 10:30 p. m., Tuesday, R.  
 Radio in Education, 7:15 p. m., Tuesday, B.  
 Grant Rice, 9:30 p. m., Fri., C; 7:30 p. m., Mon., B.  
 Read Reporter, 7:30 p. m., Tues. and Thurs., C.  
 David Ross, 8:45 p. m., Tuesday, C.  
 Sigmund Spaeth, 7:45 p. m., Thursday, B.  
 Lowell Thomas, 6:45 p. m., daily, except Sat. and Sun., B.  
 Yesterday and Today, 8:00 p. m., Monday, B.

## 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 Brdsg. 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 Sunday's Time on the Air

540 kilocycles 555.2 meters

5	3	4	
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CKLW ae 5000 C Windsor, Ont. E-7:00-1:00  
XEY z 105 546.8 Merida, Yuc.

550 kilocycles 545.1 meters

5	5		
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KFDY ae 500 1 (1) Brookings, S. D. C-Silent  
KFUO ae 500 2 (1) St. Louis, Mo. C  
KFYR ah 1000 IN (2.5) Bismarck, N. D. C-8:30-Mid.  
KOAC ak 1000 Corvallis, Ore. P-Silent  
KSD ak 500 2R... St. Louis, Mo. C-12:30-3:00; 4:30-9:15  
WDEV ae 500 D Waterbury, Vt. E-10:45-noon  
WGR ae 1000 C Buffalo, N. Y. E-9:00-1:00  
WKRC X ak 1000 C Cincinnati, Ohio. E-7:00-1:00

560 kilocycles 535.4 meters

5	7		
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KFDM ak 500 (1) Beaumont, Texas. C-8:30-10:00  
KGIZ ak 500 D Springfield, Mo. C-7:00-7:00  
KLZ X ak 1000 C Denver, Colo. M-8:00-11:30  
KTAB X ak 1000 San Francisco, Calif. P-8:30-11:00  
WFI ae 500 1R Philadelphia, Pa. E-10:20-2:00; 4:30-6:00; 9:00-mid.  
XWIND ak 1000 C Gary, Ind. C-9:00-3:30  
WLIT ak 500 1R Philadelphia, Pa. E-6:00-1:00; 2:00-4:30; 6:00-9:00; mid.-1:00  
WNOX ak 1000 C (2) Knoxville, Tenn. C-9:00-11:00  
XWQAM ae 1000 CW Miami, Fla. E-8:30-10:30  
XEAO ak 100 (.15) Mexicali, B. C. P-7:00-11:00

570 kilocycles 526.0 meters

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KGKO ak 250 (.5) Wichita Falls, Texas. C-7:30-5:00  
XKMTR ak 500 Hollywood, Calif. P-7:00-12:15  
KVI ak 500 Tacoma, Wash. P-8:00-mid.  
WKBN ae 500 1C Youngstown, Ohio. E-9:00-mid.  
WMCA X ak 500 New York, N. Y. E-9:00-1:00  
XWNAX ak 1000 C Yankton, S. D. C-8:00-mid.  
WOSU ae 750 1 (1) Columbus, Ohio. E-Silent  
WSYR ak 250 B Syracuse, N. Y. E-8:00-1:00  
WWNC X ae 1000 N Asheville, N. C. E-8:00-1:00

580 kilocycles 516.9 meters

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CHMA ak 250 S Edmonton, Alta.  
CKCL aj 100 M Toronto, Ont. E-11:00-10:30 (CFCL)  
CKUA ak 500 F Edmonton, Alta. M-Silent  
CRCA ak 500 F Moncton, N. B. A-8:00-mid.  
HIX ah 1500 Santo Domingo, D. R. E-8:10-9:50; 2:30-5:00  
KMJ X ak 500 CT Fresno, Calif. P-8:30-11:00  
KSAC X ak 500 2 (1) Manhattan, Kans. C-Silent  
XWDBO ae 250 CW Orlando, Fla. E-8:00-mid.  
WIBW ae 1000 C2 Topeka, Kans. C-8:00-mid.  
WOBU ak 250 (.5) Charleston, W. Va. E-Noon-6:00  
WTAG ae 250 R (.5) Worcester, Mass. E-10:00-11:30  
XZEPN ak 75000 585 Piedras Negras, Coah. C-6:00-8:00; 11:00-1:00; 7:00-11:00

590 kilocycles 508.2 meters

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CMW ae 1400 Havana, Cuba. E-10:00-3:00  
XKHQ ak 1000 N (2.5) Spokane, Wash. P-9:00-1:00  
WEEL X ak 1000 R Boston, Mass. E-10:00-11:30  
WKOZ ae 1000 DK Kalamazoo, Mich. E-9:00-7:00  
XWOW ae 1000 R Omaha, Neb. C-7:00-11:00; 12:30-5:00; 6:00-mid.

600 kilocycles 499.7 meters

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CFCF X ae 400 F Montreal, Que. E-noon-11:15  
KFOD ak 250 Anchorage, Alaska. L-5:00-7:00  
XKFSD ah 1000 N San Diego, Calif. P-8:00-mid.  
TISO z 50 San Jose, C. R.  
WCAC ae 250 2 Storrs, Conn. E-Silent  
WCAO ae 250 C Baltimore, Md. E-9:00-mid.  
WICC ae 250 2 CH (.5) Bridgeport, Conn. E-8:00-1:00  
XWMT af 500 C Waterloo, Iowa. C-7:00-mid.  
XWREC ak 500 C (1) Memphis, Tenn. C-7:00-mid.

610 kilocycles 491.5 meters

6	1		
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XKFRC ae 1000 CT San Francisco, Calif. P-8:00-mid.  
KZEG ak 1000 618.5 Manila, P. I. L-9:00-10:30; 1:15-3:00



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KZRM	ak	5000	618.5	Manila, P. I.	L—10:30-1:15; 3:00-10:30
TXA	z	7.5	614	San Jose, C. R.	
XWDAF	ak	1000	R	Kansas City, Mo.	C—9:00-11:00
WIP	ae	500	C	Philadelphia, Pa.	E—9:00-12:30
WJAY X	ak	500	D	Cleveland, Ohio.	E
XETR X	z	1000	.....	Mexico City D. F.	C—9:00-noon; 1:00-4:00; 5:00-11:00

## 620 kilocycles 483.6 meters

KGW X	ae	1000	NJ	Portland, Ore.	P—8:00-mid.
KTAR	ae	500	NJ (1)	Phoenix, Ariz.	M—8:00-11:00
WFLA	ae	1000	Na (2.5)	Clearwater, Fla.	E—8:00-mid.
WLBZ	ak	500	C	Bangor, Maine.	E
WSUN	ae	1000	Na (2.5)	St. Petersburg, Fla.	E—8:00-mid.
XWTMJ	ae	1000	N (2.5)	Milwaukee, Wis.	C—8:00-1:00

## 630 kilocycles 475.9 meters

CFCY	ae	500	FVE	Charlottetown, P. E. I.	A—8:30-11:30
CJGX	ck	500	F	Yorkton, Sask.	C—7:00-9:30
CKTB	z	1000	P	St. Catharines, Ont.	E—Silent
CMCU	ak	500	2	Havana, Cuba.	E—10:00-noon; 1:00-3:00; 6:00-9:00
CMQ	z	500	2	Havana, Cuba.	E
XKFRU	ak	500	1	Columbia, Mo.	C—7:30-noon; 4:00-sunset; 7:00-mid.
KGFX	z	200	D	Pierre, S. D.	C
WGBF	ae	500	1	Evansville, Ind.	C—9:30-4:00; 6:00-11:00
WMAL	ak	250	B (.5)	Washington, D. C.	E—8:00-mid.
WOS	ak	500	1D	Jefferson City, Mo.	C—Silent
XETF	ak	500	.....	Veracruz, Ver.	C—7:00-8:00; noon-3:00; 8:00-11:00
XEZ	z	500	.....	Merida, Yuc.	C
XFG	z	2000	638.3	Mexico City, D. F.	C

## 640 kilocycles 468.5 meters

CHRC	ak	100	FZ645	Quebec, Que.	E—noon-11:30
CKCR	ak	100	M645	Kitchener, Ont.	E—10:30-2:00; 4:00-10:30
XKFI	ak	5000	IN	Los Angeles, Calif.	P—9:00-11:00
WAUJ	ae	500	1	Columbus, Ohio.	E—6:15-6:00
XWOI	ae	5000	D	Ames, Iowa.	C

## 650 kilocycles 461.3 meters

XKPCB	ae	100	N....	Seattle, Wash.	P—5:30-sunset; 10:00-4:00
XWSM	aej	5000	N	Nashville, Tenn.	C—8:00-11:00

## 660 kilocycles 454.3 meters

TICP	z	75	666	San Jose, C. R.	
WAAW X	af	500	D	Omaha, Neb.	C—Silent
XWEAF	ak	5000	R	New York, N. Y.	E—8:00-1:00

## 670 kilocycles 447.5 meters

XWMAQ	ck	5000	N	Chicago, Ill.	C—9:00-1:00
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## 680 kilocycles 440.9 meters

CMAF X	ak	1000	.....	Havana, Cuba.	E—12:30-3:00; 7:00-11:00
KFEQ X	ak	2500	D	St. Joseph, Mo.	C—Silent
XKPO	ak	5000	N	San Francisco, Calif.	P—8:00-mid.
VAS	z	2000	685	Glance Bay, N. S.	A
WPTF X	ae	1000	DnN	Raleigh, N. C.	E—10:00-sunset

## 690 kilocycles 434.5 meters

CFAC	ak	500	1	Calgary, Alta.	M—Silent
XCFRB	ak	10000	C	Toronto, Ont.	E—10:00-mid.
CJCJ	ak	500	1	Calgary, Alta.	M—9:30-10:45; 6:00-7:15
HJN	z	2000	.....	Bogota, Colombia.	L
NAA	ak	1000	.....	Arlington, Va.	E
XET	ck	500	.....	Monterrey, N. L.	C—9:00-3:00

## 700 kilocycles 428.3 meters

XWLW	ak	5000	N	Cincinnati, Ohio.	E—8:00-1:30
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## 710 kilocycles 422.3 meters

XKMPC	ae	500	Dn	Beverly Hills, Calif.	P—6:30-5:15; 8:00-1:00
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With Sunday's Time on the Air

<p>TIFB z 30 714                      ✕WOR ak 5000 .....                      XEN agj 1000 711</p>	<p>San Jose, C. R.                      Newark, N. J. E—10:00-12:30                      Mexico City, D. F. C—9:00-10:00; 1:00-3:00; 7:00-mid.</p>
<p><b>720 kilocycles 416.4 meters</b> <span style="float: right; border: 1px solid black; display: inline-block; width: 150px; height: 15px;"></span></p>	
<p>✕WGN ck 25000 C</p>	<p>Chicago, Ill. C—7:00-1:30</p>
<p><b>730 kilocycles 410.7 meters</b> <span style="float: right; border: 1px solid black; display: inline-block; width: 150px; height: 15px;"></span></p>	
<p>CFPL z 100 .....                      CJCA ah 500 F                      CKACX ak 5000 CF                      CKWX ak 100 L                      CMK ae 3150 .....                      ✕XEF-                      ✕XER ak 15000 735</p>	<p>London, Ont. E                      Edmonton, Alta. M                      Montreal, Que. E—noon-11:00                      Vancouver, B. C. P—7:00-mid.                      Havana, Cuba. E—10:00-noon; 6:00-mid.                      Villa Acuna, Coah. C—7:15-5:00</p>
<p><b>740 kilocycles 405.2 meters</b> <span style="float: right; border: 1px solid black; display: inline-block; width: 150px; height: 15px;"></span></p>	
<p>KMMJX ae 1000 D                      WHEB ak 250 D                      ✕WSB ah 5000 NX</p>	<p>Clay Center, Neb. C—8:00-9:00; 1:30-4:00                      Portsmouth, N. H. E                      Atlanta, Ga. C—6:55-mid.</p>
<p><b>750 kilocycles 399.8 meters</b> <span style="float: right; border: 1px solid black; display: inline-block; width: 150px; height: 15px;"></span></p>	
<p>KGU aj 2500 N                      ✕WJR ak 10000 B                      XEAN ae 5000 .....</p>	<p>Honolulu, T. H. L—8:45-10:30                      Detroit, Mich. E—8:00-1:00                      Juarez, Chih. M—9:00-2:00; 5:00-11:00</p>
<p><b>760 kilocycles 394.5 meters</b> <span style="float: right; border: 1px solid black; display: inline-block; width: 150px; height: 15px;"></span></p>	
<p>KXA ✕ ae 250 (.5)                      ✕WBAL ae 10000 BSy                      ✕WBW ✕ ae 1000 D                      ✕WJZ ck 50000 BSy</p>	<p>Seattle, Wash. P—7:00-sunset; 9:00-10:00                      Baltimore, Md. (See 1060 kcys.)                      St. Louis, Mo. C—9:30-6:00                      New York, N. Y. E—8:00-1:00</p>
<p><b>770 kilocycles 389.4 meters</b> <span style="float: right; border: 1px solid black; display: inline-block; width: 150px; height: 15px;"></span></p>	
<p>✕KFAB ae 5000 CSy                      ✕WBEM ae 25000 CSy</p>	<p>Lincoln, Neb. C—9:00-6:45; 9:00-mid.                      Chicago, Ill. C—8:45-10:00; 11:30-2:00</p>
<p><b>780 kilocycles 384.4 meters</b> <span style="float: right; border: 1px solid black; display: inline-block; width: 150px; height: 15px;"></span></p>	
<p>CHWK ak 100 .....                      CJCS z 500 (1) P                      CKPR ak 100 FE                      CMBS ag 200 1 (.15)                      CMCO z 1000 1                      KELW ae 500 2                      KTM ✕ ae 500 2 (1)                      WEAN ae 500 CH                      ✕WMC ak 500 N (1)                      ✕WTAR ✕ ae 500 C                      XEP z 1000 .....</p>	<p>Chilliwack, B. C. P—Silent                      Sudbury, Ont. E                      Fort William, Ont. E—5:00-10:00                      Havana, Cuba. E—Silent                      Havana, Cuba. E                      Burbank, Calif. P—10:00-1:00; 5:00-8:00; 4:00-6:00                      Los Angeles, Calif. P—6:00-10:00; 1:00-5:00; 8:00-4:00                      Providence, R. I. E—8:00-1:00                      Memphis, Tenn. C—8:00-mid.                      Norfolk, Va. E—9:00-mid.                      Mexico City, D. F. C</p>
<p><b>790 kilocycles 379.5 meters</b> <span style="float: right; border: 1px solid black; display: inline-block; width: 150px; height: 15px;"></span></p>	
<p>CMJK ✕ ak 500 .....                      ✕KGO ak 7500 N                      ✕WGY ak 50000 R</p>	<p>Camaguey, Cuba. E—10:00-12:30; 4:00-11:00                      San Francisco, Calif. P—8:00-mid.                      Schenectady, N. Y. E—9:00-12:30</p>
<p><b>800 kilocycles 374.8 meters</b> <span style="float: right; border: 1px solid black; display: inline-block; width: 150px; height: 15px;"></span></p>	
<p>✕WBAP ak 50000 Na                      ✕WFAA ak 50000 Na                      XFC ✕ z 350 805</p>	<p>Fort Worth, Texas. C—10:00-noon; 3:00-6:00; 9:15-mid.                      Dallas, Texas. C—6:30-10:00; noon-3:00; 6:00-9:15                      Aguascalientes, Ags.</p>
<p><b>810 kilocycles 370.2 meters</b> <span style="float: right; border: 1px solid black; display: inline-block; width: 150px; height: 15px;"></span></p>	
<p>VOAS ak 100 .....                      ✕WCCO ae 50000 C                      WNYCX ak 500 N                      XETW z 500 .....</p>	<p>St. John's, Nfld. L—Silent                      Minneapolis, Minn. C—8:00-mid.                      New York, N. Y. E—10:00-7:30                      Mexico City, D. F. C</p>
<p><b>820 kilocycles 365.6 meters</b> <span style="float: right; border: 1px solid black; display: inline-block; width: 150px; height: 15px;"></span></p>	
<p>CMGC z 30 .....                      ✕WHAS aj 25000 C</p>	<p>Matanzas, Cuba. E                      Louisville, Ky. C—8:00-mid.</p>

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830 kilocycles 361.2 meters

CMGA	z	100	834	Colon, Cuba.	E
XKOA	ak	12500	N	Denver, Colo.	M—8:30-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	Dn	Boston, Mass.	E—7:00-9:00
WRUF	X ae	5000	Dn	Gainesville, Fla.	E—8:30-8:15

840 kilocycles 356.9 meters

CJOC	ak	100	F	Lethbridge, Alta.	M—11:00-12:30
XCMC	ae	500	.....	Havana, Cuba.	E—8:00-11:00
XETM	z	150000	845	Matamoros, Tams.	

850 kilocycles 352.7 meters

KIEV	ak	100	D	Glendale, Calif.	P—6:00-sunset
XKWKH	ae	10000	1	Shreveport, La.	C—7:45-mid.
XWWL	ae	10000	1Dn	New Orleans, La.	C—10:00-7:45
XEFD	z	300	855	Tijuana, B. C.	P

860 kilocycles 348.6 meters

TIVL	z	30	.....	San Jose, C. R.	
XWABC	ae	50000	C	New York, N. Y.	E—8:00-1:00 (WBOQ)
WHB	X ae	500	D	Kansas City, Mo.	C—6:00-sunset
XETH	ak	100	.....	Puebla, Pue.	C—8:30-11:00; 1:00-3:00; 7:00-11:00
XFX	z	500	.....	Mexico City, D. F.	C

870 kilocycles 344.6 meters

XWENR	ak	50000	Na	Chicago, Ill.	C—8:00-12:30; 3:30-6:00; 8:00-1:00
XWLS	ae	50000	Na	Chicago, Ill.	C—11:30-3:30 5:00-7:00
XEAD	z	250	875	Mexico City, D. F.	C

880 kilocycles 340.7 meters

CJCB	ak	100	.....	Sydney, N. S.	A—noon-3:00; 5:00-10:00
XCJRM	z	500	.....	Moose Jaw, Sask.	C
CJRW	ak	500	F	Winnipeg, Man.	C—8:00-9:30
XCRCO	z	500	F	Ottawa, Ont.	E
KFKA	X ak	500	2 (1)	Greeley, Colo.	M—Silent
KLX	X ak	1000	.....	Oakland, Calif.	P—noon-11:00
KPOF	X ae	500	2	Denver, Colo.	M—7:30-9:00; 3:00-4:00; 7:30-9:00
TIC	z	15	882	San Jose, C. R.	
XWOC	ae	500	(1)	Meridian, Miss.	C—9:30-3:30; 6:00-9:30
WGBI	ae	250	1	Scranton, Pa.	E—3:30-10:00
WQAN	ae	250	1	Scranton, Pa.	E—Silent
WSUT	ae	500	.....	Iowa City, Iowa.	C—4:00-5:00; 9:00-10:00
YV2BC	z	100	882	Caracas, Venz.	L

890 kilocycles 336.9 meters

CFQC	z	500	Z	Saskatoon, Sask.	C
CHML	aei	50	M	Hamilton, Ont.	E—11:00-2:15
CMCF	ak	250	1	Havana, Cuba.	E—10:00-1:00
CMX	ae	1000	1	Havana, Cuba.	E—Silent
KARK	ak	250	.....	Little Rock, Ark.	C—8:00-9:45; 11:00-noon; 4:30-6:00; 7:45-9:00
XKFN	ak	500	2 (1)	Shenandoah, Iowa.	C—8:00-9:30; 10:45-noon; 2:00-8:00
KSEI	ck	250	(.5)	Pocatello, Idaho.	M—10:00-11:00
KUSD	X ae	500	2	Vermillion, S. D.	C—Silent
VOGY	z	500	.....	St. John's, Nfld.	L
XWGST	ae	250	C (.5)	Atlanta, Ga.	C—7:00-mid.
XWILL	ak	250	2 (.5)	Urbana, Ill.	C—Silent
XWJAR	ae	500	R	Providence, R. I.	E—9:00-1:00
XWMMN	X ae	250	(.5)	Fairmont, W. Va.	E—10:00-9:00
XETU	z	100	.....	Pachuca, Hdo.	

900 kilocycles 333.1 meters

KGBU	ak	500	.....	Ketchikan, Alaska.	L—10:00-mid.
XKHJ	ae	1000	CT	Los Angeles, Calif.	P—8:00-mid.
VOWR	ak	500	S	St. John's, Nfld.	L—11:00-6:30
WBEN	X ae	1000	R	Buffalo, N. Y.	E—9:00-mid.
WJAX	X aeh	1000	N	Jacksonville, Fla.	E—9:00-mid.
XWKY	ak	1000	N	Oklahoma City, Okla.	C—8:00-mid.
XWLBL	ae	2500	D	Stevens Point, Wis.	C—Silent

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910 kilocycles 329.6 meters

CFRC	ak	100	915	Kingston, Ont.	E—Silent
XCKY	ak	5000	.....	Winnipeg, Ma.	C—11:00-1:30; 6:30-10:30
TICR	z	50	911	San Jose, C. R.	
XEW	ak	5000	.....	Mexico City, D. F.	C—10:00-mid.

920 kilocycles 325.9 meters

CMBW	ak	600	925	Havana, Cuba.	E—mid.-1:00; 5:00-6:00
CMDE	z	150	925	Havana, Cuba.	E
HHK	ae	1000	.....	Port-au-Prince, Haiti.	E—Silent
XKFEL	ak	500	1	Denver, Colo.	M—10:00-7:00
XKFXF	ae	500	1	Denver, Colo.	M—7:30-10:00; 7:30-1:00
KOMO	ak	1000	N	Seattle, Wash.	P—8:00-11:00
XKPRC	ak	1000	N (2.5)	Houston, Texas.	C—7:45-mid.
XWAAF	ak	500	D	Chicago, Ill.	C—6:00-sunset
XWBSO	ae	500	D	Babson Park, Mass.	E—8:30-5:15
XWJ	ae	1000	R	Detroit, Mich.	E—8:00-11:15

930 kilocycles 322.4 meters

CFCH	ak	100	.....	North Bay, Ont.	E—11:00-12:30; 5:00-6:00; 8:15-9:15
CFLC	ae	100	.....	Prescott, Ont.	E—7:00-8:30
CKPC	ae	100	FG	Preston, Ont.	E—10:00-10:00
CKX	ak	500	.....	Brandon, Man.	C—6:45-8:30
CMJF	z	200	.....	Camaguey, Cuba.	E
KFWI	ak	500	1	San Francisco, Calif.	P—2:30-6:00; 7:45-9:00
XKGBZ	ak	500	2 (1)	York, Neb.	C—9:15-11:15; 1:30-3:00; 4:30-6:00; 7:00-8:30
XKMA	ak	500	2 (1)	Shenandoah, Iowa.	C—8:00-9:15; 11:15-1:30; 3:00-4:30; 6:00-7:00; 8:30-11:00
KROW	ak	500	1 (1)	Oakland, Calif.	P—8:00-2:30; 6:00-7:45; 9:15-11:00
WBRC	ak	500	C (1)	Birmingham, Ala.	C—10:00-11:00
WDBJ	ae	250	C (.5)	Roanoke, Va.	E—8:00-mid.
WIBG	ae	25	D	Glenside, Pa.	E—10:00-sunset

940 kilocycles 319.0 meters

KOIN	ak	1000	CT	Portland, Ore.	P—8:30-mid.
WAAT	ae	300	D	Jersey City, N. J.	E—7:00-7:00
WCSH	ae	1000	R (2.5)	Portland, Maine.	E—9:00-mid.
WDAY	ae	1000	N	Fargo, N. D.	C—8:00-mid.
XWFIW	ak	1000	Y	Hopkinsville, Ky.	C—10:00-noon; 7:00-9:00
XWHA	ak	1000	D	Madison, Wis.	C—Silent
XEFO	ak	5000	.....	Mexico City, D. F.	C—1:00-3:00; 6:25-mid. (XEO)

950 kilocycles 315.6 meters

CMHD	dk	500	(.25)	Caibarien, Cuba.	E—8:00-9:00
XKFVH	ak	1000	.....	Hollywood, Calif.	P—8:00-mid.
KGHL	ak	1000	NJ (2.5)	Billings, Mont.	M—9:00-4:30; 6:45-11:00
XKMBC	ak	1000	C	Kansas City, Mo.	C—7:00-mid.
XWRC	ae	500	R	Washington, D. C.	E—8:00-mid.

960 kilocycles 312.3 meters

CMBD	z	150	965	Havana, Cuba.	E
CMCW	ak	100	965	Havana, Cuba.	E—3:00-10:00
CMJL	z	50	.....	Camaguey, Cuba.	
XCRCT	z	5000	NF	Toronto, Ont.	E
XEAW	ak	10000	965	Reynosa, Tams.	C—5:00-1:00
YVIBC	ak	5000	.....	Caracas, Venez.	L—7:30-11:00

970 kilocycles 309.1 meters

XKJR	z	5000	N	Seattle, Wash.	P—8:00-mid.
XWCFL	ae	1500	BX	Chicago, Ill.	C—8:00-mid.

980 kilocycles 303.9 meters

CMGF	z	100	987	Matanzas, Cuba.	
XKDKA	ak	50000	B	Pittsburgh, Pa.	E—9:00-1:00
XXEAE	ak	800	.....	Tijuana, B. C.	P—noon-mid.

990 kilocycles 302.8 meters

TITV	z	7.5	999	San Jose, C. R.	
XWBZ	ak	25000	BSy	Boston, Mass.	E—10:00-mid.
XWBZA	ak	1000	BSy	Springfield, Mass.	E—10:00-mid.
XEK	z	101	.....	Mexico City, D. F.	C

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1000 kilocycles 299.8 meters

100		
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KFVD	ae	250	Dn	Los Angeles, Calif.	P-8:00-6:30; 9:15-mid.
^WHO-					
XWOC	ak	5000	R	Des Moines, Iowa.	C-7:00-mid.
WORK	ak	1000	D	York, Pa.	E-10:45-6:00
XEA	ak	250	.....	Guadalajara, Jal.	C-8:30-9:00; 8:00-11:00
XEC	ak	50	.....	Toluca, D. F.	C
XEFE	z	100	.....	Nuevo Laredo, Tams.	C
XEFJ	ak	100	.....	Monterrey, N. L.	C-Silent
XEFS	ak	40	.....	Queretaro, Oro.	C-Silent
XEL	ak	40	.....	Saltillo, Coah.	C-9:30-2:00

1010 kilocycles 296.9 meters

101		
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CHWC	ae	500	3F	Regina, Sask.	M-4:30-9:30
CKCD	ak	100	.....	Vancouver, B. C.	P-8:45-9:00
CKCK	ak	500	3F	Regina, Sask.	M-10:00-4:00; 9:00-10:30
XCKCO	z	100	.....	Ottawa, Ont.	E
CKIC	ak	50	.....	Wolfville, N. S.	A-3:00-4:00
CKOC	ae	500	FZ	Hamilton, Ont.	E-10:00-11:00
CMBZ	ak	150	.....	Havana, Cuba.	E-9:00-10:30; 6:00-7:00
CMJO	ak	50	.....	Ciego de Avila, Cuba.	E-9:00-1:00; 6:00-10:00
XKGGF	ak	500	2 (1)	Coffeyville, Kans.	C-1:30-5:00
KQW	ae	500	.....	San Jose, Calif.	P-10:15-12:30; 7:30-9:30
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-9:00-mid.
WNAD	ae	500	2	Norman, Okla.	C-Silent
WPAP	ae	250	1	New York, N. Y.	E-9:30-3:00
WQAO	ae	250	1	New York, N. Y.	E-11:00-12:30; 3:00-4:30; 7:30-9:30
WRNY	ae	250	1	New York, N. Y.	E-4:30-7:30
XEJ	ak	500	1015	Juarez, Chih.	C-9:00-4:00; 6:00-11:00
XEU	ak	100	.....	Veracruz, Ver.	C-7:00-8:00; noon-4:00; 6:00-11:00

1020 kilocycles 293.9 meters

102		
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XKYW	ae	10000	N	Chicago, Ill.	C-8:00-1:00
WRAX	ak	250	D	Philadelphia, Pa.	E-8:00-7:00
XES	dk	250	.....	Tampico, Tams.	C-noon-2:30

1030 kilocycles 291.1 meters

103		
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CFBO	z	500	.....	St. John, N. B.	A
CFCN	ak	10000	.....	Calgary, Alta.	M-11:00-10:30
CFNB	ae	50	FE	Fredericton, N. B.	A-11:00-12:15; 7:00-8:15
XCKNC	ak	500	F	Toronto, Ont.	E-11:00-11:00
CMHI	ak	250	1037	Santa Clara, Cuba.	E-10:00-noon; 4:00-5:00; 9:00-10:00
CMKC	z	150	1034	Santiago, Cuba.	E
XEB	ak	10000	.....	Mexico City, D. F.	C-9:30-10:00

1040 kilocycles 288.3 meters

104		
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CMGH	z	15	.....	Matanzas, Cuba.	E
XKRLD	ae	10000	1C	Dallas, Texas.	C
XKTHS	ae	10000	1N	Hot Springs, Ark.	C
WESG	ak	1000	D	Elmira, N. Y.	E-10:30-5:00
XWKAR	ak	1000	D	East Lansing, Mich.	E-Silent

1050 kilocycles 285.5 meters

105		
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CHNS	ae	500	FL	Halifax, N. S.	A-6:00-mid.
CMJG	z	50	.....	Camaguey, Cuba.	E
KFBI	ak	5000	Dn	Ablene, Kans.	C-8:00-8:00
XKNX	ak	25000	.....	Hollywood, Calif.	P-6:45-10:00
XEFC	ak	100	.....	Merida, Yuc.	C-noon-6:00

1060 kilocycles 282.8 meters

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KWJJ	ak	500	.....	Portland, Ore.	P-7:00-8:00; 9:00-2:00
WBAL	ae	10000	1B	Baltimore, Md.	E-8:00-6:30
WJAG	ak	1000	D	Norfolk, Neb.	C-9:30-sunset
XWTIC	ak	50000	1R	Hartford, Conn.	E-7:30-mid.

1070 kilocycles 280.2 meters

107		
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CMBG	z	225	.....	Havana, Cuba.	E
CMCB	ak	150	.....	Havana, Cuba.	E-11:00-1:00; 9:00-mid.

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KJBS	ae	100	D	San Francisco, Calif.	P-12:01-sunset
XWCAZ	ae	50	D	Carthage, Ill.	C-Silent
XWDZ	ak	100	D	Tuscola, Ill.	C-9:30-4:30
XWTAM	ck	50000	R	Cleveland, Ohio.	E-7:00-1:00
XEG	z	500	1075	Mexico City, D. F.	C

1080 kilocycles 277.6 meters

XWBT	ae	25000	CU	Charlotte, N. C.	E-9:00-mid.
XWCBD	ae	5000	1Dn	Zion, Ill.	C-8:30-11:30; 3:00-sunset
XWMBI	ae	5000	1Dn	Chicago, Ill.	C-7:30-8:30; 11:30-3:30

1090 kilocycles 275.1 meters

XKMOX	ak	50000	C	St. Louis, Mo.	C-7:55-12:30
XEAI	z	100	.....	Mexico City, D. F.	(All mail returned)

1100 kilocycles 272.6 meters

CRCV	ak	500	F	Vancouver, B. C.	P-6:00-11:00
KGDM	ak	250	D	Stockton, Calif.	P-6:00-6:30
TIRCA	ak	500	.....	San Jose, C. R.	C-noon-2:00; 5:00-6:00
WLWL	ae	5000	1	New York, N. Y.	E-3:15-4:30; 8:00-9:15
XWPG	ak	5000	1C	Atlantic City, N. J.	E-9:00-3:15; 4:30-7:30; 9:15-1:00

1110 kilocycles 270.1 meters

KSOO	ae	1000	Dn (2.5)	Sioux Falls, S. D.	C-9:00-6:30; 9:30-mid.
XWRVA	ae	5000	N	Richmond, Va.	E-10:00-11:15
XENT	ak	150000	1115	Nuevo Laredo, Tams.	C-noon-1:00; 2:00-10:00

1120 kilocycles 267.7 meters

CFCA	ak	100	F	Toronto, Ont.	E-11:00-11:30
CHGS	ae	100	F	Summerside, P. E. I.	A-11:00-1:00; 3:00-8:15; 10:00-11:00
CHLP	z	100	.....	Montreal, Que.	E-4:30-11:45
KFLO	ae	100	D	Spokane, Wash.	P-8:00-sunset
KFSG	ak	500	a	Los Angeles, Calif.	P-10:30-12:45; 2:30-4:30; 6:30-mid.
KRKD	ae	500	a	Los Angeles, Calif.	P-7:45-10:30; 12:30-7:00
KRSC	ak	100	D	Seattle, Wash.	P-6:45-6:30
XKTRH	z	1000	2C	Houston, Texas.	C-8:00-11:30
XWDEL	ak	250	(.5)	Wilmington, Del.	E-10:30-10:00
XWHAD	ak	250	1C	Milwaukee, Wis.	C-9:30-10:15; 4:00-5:00
XWISN	ak	250	1	Milwaukee, Wis.	C-8:30-4:00; 5:00-mid.
WTAW	ae	500	2	College Station, Texas.	C-Silent

1130 kilocycles 265.3 meters

XKSL	ae	50000	C	Salt Lake City, Utah.	M-8:00-mid.
XWJJD	ae	20000	Dn	Chicago, Ill.	C-7:20-10:00
XWOV	ag	1000	D	New York, N. Y.	E-8:00-3:15; 4:30-6:00
XEH	ak	250	1132	Monterrey, N. L.	C-Silent

1140 kilocycles 263.0 meters

CMBJ	z	150	.....	Havana, Cuba.	E
CMCD	ah	500	(.25)	Havana, Cuba.	E-noon-11:30-Mid.-3:00
XKVOO	ae	5000	1N	Tulsa, Okla.	C-7:30-8:15
XWAPI	ae	5000	1N	Birmingham, Ala.	C-8:45-sunset-8:15-Mid.

1150 kilocycles 260.7 meters

CMJH	ak	50	.....	Ciego de Avila, Cuba.	E-8:00-8:30; 10:00-3:00; 5:30-10:30
XWHAM	ae	25000	B	Rochester, N. Y.	E-9:00-mid.
XED	ak	500	1155	Guadalajara, Jal.	C-noon-3:30; 7:00-mid.
10-AT	ak	25	1155	Trail, B. C.	P-11:00-1:00

1160 kilocycles 258.5 meters

XWOWO	ae	10000	1C	Fort Wayne, Ind.	C-7:30-5:45; 7:30-mid.
XWWVA	ae	5000	1C	Wheeling, W. Va.	E-7:30-8:30

1170 kilocycles 256.3 meters

CMJE	z	50	1175	Camaguey, Cuba.	E
XWCAU	ae	50000	C	Philadelphia, Pa.	E-9:00-1:00

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1180 kilocycles 254.1 meters

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CMBN ak 150 1185  
 CMCJ ak 500 1185  
 HIJK z 15000  
 XKEK ak 5000 2N  
 ROEB ae 10000 2  
 TICR z 30  
 WDGY ak 1000 Dn  
 WINS ae 500  
 WMAZ ak 500  
 XETA z 250

Havana, Cuba. E-1:00-4:00; 9:15-11:00  
 Havana, Cuba. E-4:00-5:30; 7:00-8:00  
 Santo Domingo, D. R.  
 Portland, Ore. P-8:00-6:30; 8:00-mid.  
 Albuquerque, N. M. M-Silent  
 San Jose, C. R.  
 Minneapolis, Minn. C-6:30-8:15  
 New York, N. Y. E-6:00-9:15  
 Macon, Ga. E-10:00-3:00  
 Mexico City, D. F.

1190 kilocycles 252.0 meters

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CMHJ ae 60  
 VONF ak 400 1195  
 XWOAI ae 50000 N  
 WSAZ ak 1000

Cienfuegos, Cuba. E-11:00-3:00; 6:00-10:00  
 St. John's, Nfld. L-12:30-2:00; 8:00-9:00  
 San Antonio, Texas. C-9:00-10:30  
 Huntington, W. Va. E-2:00-8:00

1200 kilocycles 249.9 meters

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CHAB ak 400 F  
 CKOV ak 100 F  
 CKTB ae 100 GP  
 CMBG z 30 1205  
 XKBTM ak 100 D  
 KERN ak 100 CT  
 XKFJB ak 100 (.25)  
 KFWF ak 100 5  
 KFXD ae 100  
 KFXJ ak 100  
 XKGDE ak 100 (.25)  
 XKGEK ak 100  
 KGFJ ae 100  
 XKGHI ak 100 (.25)  
 KGVO ak 100  
 KIGY z 100 D  
 KMLB ae 100  
 KWOS ak 100  
 KWG ae 100 CP  
 WABI ak 100  
 XWBBX ak 100 1  
 WBBZ ak 100  
 WBHS z 100 4  
 XWCAT ak 100 D  
 WCAX ak 100  
 XWCLO ak 100  
 WCOD ak 100 3  
 WFAM ak 100 8C  
 XWFBC ak 100 4 (.25)  
 XWFBE ak 100 (.25)  
 XWHBC ak 100  
 XWHBY ak 100  
 WIBX ae 100 (.3)  
 WIL ak 100 5 (.25)  
 WJBC ae 100 6  
 XWJBL ak 100 6  
 WJBW ak 100 1  
 WJJC ae 100 3  
 XWLAP ae 100 (.25)  
 WNBO ae 100  
 WNBW z 10 (.1)  
 XWPHR ak 100 (.25)  
 WRBL z 100  
 WWAE ae 100 8  
 YV3BC ak 1000  
 10-AK ak 15  
 10-BI ak 25  
 10-BP ak 25  
 10-BQ ak 15  
 10-BU z 15

Moose Jaw, Sask. M-9:00-11:00. 3:00-5:30; 7:00-9:30  
 Kelowna, B. C. P  
 St. Catharines, Ont. E  
 Matanzas, Cuba. E  
 Paragould, Ark. C-7:30-3:00  
 Bakersfield, Calif. P-8:00-mid.  
 Marshalltown, Iowa. C-8:00-9:00; noon-3:00; 6:00-6:30  
 St. Louis, Mo. C-9:00-11:00; 6:00-8:00  
 Nampa, Idaho. M-11:00-4:30  
 Grand Junction, Colo. M-8:00-2:00; 6:00-9:00  
 Fergus Falls, Minn. C-9:00-9:00  
 Yuma, Colo. M-11:00-12:15  
 Los Angeles, Calif. P-24 hours  
 Little Rock, Ark. C-11:00-1:00; 7:00-10:30  
 Missoula, Mont. M-10:00-6:00  
 Lowell, Ariz. M  
 Monroe, La. C-9:00-1:00; 6:00-10:00  
 Bellingham, Wash. P-9:00-9:00.  
 Stockton, Calif. P-8:00-mid.  
 Bangor, Maine. E-9:00-2:00; 6:00-10:00  
 New Orleans, La. C-10:00-1:00; 5:00-9:00  
 Ponca City, Okla. C-8:00-3:00  
 Huntsville, Ala. C  
 Rapid City, S. D. C-Silent  
 Burlington, Vt. E-Silent  
 Jamesville, Wis. C-Silent  
 Harrisburg, Pa. E-noon-6:00  
 South Bend, Ind. C-8:00-mid.  
 Greenville, S. C. E-8:30-1:45; 5:00-10:00  
 Cincinnati, Ohio. E-8:00-11:30  
 Canton, Ohio E-noon-3:00; 6:00-9:00  
 Green Bay, Wis. C-10:00-9:00  
 Utica, N. Y. E-8:00-9:00  
 St. Louis, Mo. C-9:00-mid.  
 LaSalle, Ill. C-9:00-10:30; 2:00-6:00  
 Decatur, Ill. C-8:45-9:30; 10:45-noon; 6:00-9:30  
 New Orleans, La. C-8:00-10:00; 1:00-5:00; 9:00-mid.  
 Lancaster, Pa. E-Silent  
 Louisville, Ky. C-7:30-11:30  
 Silverhaven, Pa. E-9:00-noon; 3:00-6:00; 9:00-mid.  
 Carbondale, Pa. E  
 Petersburg, Va. E-5:30-7:00  
 Columbus, Ga. C-8:00-3:00; 6:00-9:00  
 Hammond, Ind. C-11:00-2:15; 4:00-mid.  
 Caracas, Venez. L-9:00-1:00; 8:00-11:00  
 Stratford, Ont. E-5:00-6:00  
 Prince Albert, Sask. M  
 Wingham, Ont. E-11:00-noon; 7:00-8:00  
 Brantford, Ont. E11:00-7:00  
 Canora, Sask. C

1210 kilocycles 247.8 meters

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CFCO ak 100 FL  
 CHNC ak 100 PF  
 CJOR ak 500  
 CKCH z 100

Chatham, Ont. E-9:15-12:15; 1:45-2:45; 7:00-8:15  
 New Carlisle, Que. A-5:00 mid.  
 Vancouver, B. C. P-10:30-noon; 3:00-9:00  
 Hull, Que. E

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With Sunday's Time on the Air

CKMC	ak	100	.....	Cobalt, Ont.	E-3:00-7:00
KASA	ak	100	.....	Elk City, Okla.	C-9:45-noon; 1:00-5:00
KDLR	ak	100	.....	Devils Lake, N. D.	C-Silent
KFIJ	ak	100	.....	Klamath Falls, Ore.	P-Silent
KFOR	ak	100	(.25)	Lincoln, Neb.	C-8:00-9:00
KFPV	ak	100	.....	Fort Smith, Ark.	C-11:00-2:00; 5:00-9:30
KFVS	ae	100	6	Cape Girardeau, Mo.	C-9:00-4:00; 9:30-mid.
KFXM	ak	100	9	San Bernardino, Calif.	P-3:00-6:00
KGCR	ak	100	.....	Watertown, S. D.	C-9:00-2:00
KGY	ak	100	.....	Olympia, Wash.	P-Silent
KIEM	ak	100	.....	Eureka, Calif.	P-10:00-sunset
KPPC	ak	50	9	Pasadena, Calif.	P-9:30-12:30; 7:30-9:00
KWEA	z	100	.....	Shreveport, La.	C
KWVF	z	100	.....	Hilo, Hawaii.	L
XWALR	ae	100	.....	Zanesville, Ohio.	E-10:00-10:00
WBAX	ae	100	1	Wilkes Barre, Pa.	E-1:00-11:00
XWBL	ak	100	7S	Richmond, Va.	E-10:55-12:15; 7:45-9:00
XWBBS	ak	100	2	Springfield, Ill.	C-10:45-2:00; 7:00-7:30
XWCRW	ae	100	4	Chicago, Ill.	C-11:00-2:00; 5:00-7:00
XWEBQ	ak	100	6	Harrisburg, Ill.	C-6:00-9:00; 4:00-9:30
XWEDC	ae	100	4	Chicago, Ill.	C-8:30-10:00; 3:30-5:00; 7:00-8:00; 10:00-11:00
WFAS	ak	100	3	White Plains, N. Y.	E-6:00-9:00
WGBB	ae	100	3	Freeport, N. Y.	E-9:00-6:00
XWGCM	ae	100	.....	Mississippi City, Miss.	C-10:45-11:45; 3:00-5:00
WGNV	ak	50	.....	Chester, N. Y.	E
XWHBF	ak	100	.....	Rock Island, Ill.	C-noon-6:00
XWHBU	ah	100	.....	Anderson, Ind.	C-10:00-3:00
WHET	ak	100	D	Troy, Ala.	C-10:30-4:30; 7:00-9:00
XWIBU	ae	100	.....	Poyntette, Wis.	C-10:00-5:30
XWJBI	ak	100	3	Red Bank, N. J.	E-Silent
XWJBY	ae	100	.....	Gadsden, Ala.	C-6:00-12:10
XWJEJ	ah	100	D	Hagerstown, Md.	E-11:00-Sunset
XWJW	ak	100	.....	Akron, Ohio.	E-9:00-11:30
XWKFJ	ak	100	.....	Greenville, Miss.	C-10:00-2:00
WKOK	ak	100	1P	Sunbury, Pa.	E-Silent
WMBG	ak	100	7C	Richmond, Va.	E-1:30-5:00
XWOCL	ak	50	.....	Jamestown, N. Y.	E-11:00-7:15
XWOMT	ae	100	.....	Manitowoc, Wis.	C-Silent
WPRO	ak	100	CH	Providence, R. I.	E-9:00-1:00; 2:30-11:15
WQDX	ae	100	.....	Thomasville, Ga.	E-10:45-12:30; 7:45-9:30
XWSBC	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.
XWSEN	ak	100	.....	Columbus, Ohio.	E-10:00-mid.
WSIX	ak	100	.....	Springfield, Tenn.	C-10:30-noon; 7:00-8:30
XWSOC	ae	100	Y	Gastonia, N. C.	E
XWTAX	ae	100	2	Springfield, Ill.	C-8:00-10:45; 3:00-7:00; 7:30-10:15
WXX	z	500	.....	Mexico City, D. F.	(All mail returned)

## 1220 kilocycles 245.8 meters

CMHK	ak	50	1225	Cruces, Cuba.	E-9:30-noon; 1:00-3:30
KFKU	ae	500	a	Lawrence, Kans.	C-4:00-5:00
KTW	ak	1000	S2	Seattle, Wash.	P-11:00-12:30; 2:00-6:00; 7:30-9:00
XKWSC	ak	1000	2(2)	Pullman, Wash.	P-Silent
WCAD	ak	500	D	Canton, N. Y.	E-Silent
XWCAE	ae	1000	R	Pittsburgh, Pa.	E-10:45-1:00
WDAE	ae	1000	CV	Tampa, Fla.	E-9:00-mid.
XWREN	ak	1000	Ba	Lawrence, Kas.	C-7:00-mid.

## 1230 kilocycles 243.8 meters

CMBY	z	250	2	Havana, Cuba.	E
CMCA	z	150	2	Havana, Cuba.	E
KGGM	ak	250	(.5)	Albuquerque, N. M.	M-10:00-2:00
KYA	ae	1000	N	San Francisco, Calif.	P-8:15-11:00
XWFBM	ae	1000	1C	Indianapolis, Ind.	C-8:00-11:30
WNAC	ak	1000	CH	Boston, Mass.	E-8:00-1:00
XWSBT	ak	500	1C	South Bend, Ind.	C-8:00-mid.

## 1240 kilocycles 241.8 meters

CMAB	z	20	1249	Pinar del Rio, Cuba.	E
CMJN	z	50	.....	Camaguey, Cuba.	E
XKCCU	ak	250	1	Mandan, N. D.	M-10:45-12:30; 1:30-4:00; 7:00-9:00
XKLTM	ak	250	1	Minot, N. D.	C-9:00-11:45; 1:30-2:30; 5:30-8:00
KPAT	ak	1000	.....	Fort Worth, Texas.	C-7:00-Mid.
XKTFI	ae	1000	.....	Twin Falls, Idaho.	M-10:00-mid.
XWKAQ	ae	1000	.....	San Juan, P. R.	A-11:00-6:30
WXYZ	ak	1000	K	Detroit, Mich.	E-9:00-mid.



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1250 kilocycles 239.9 meters

X KFOX	ae	1000	.....	Long Beach, Calif.	P—6:00-mid.		
X WAAM	ae	1000	1 (2.5)	Newark, N. J.	E—11:00-12:30		
X WCAL	ah	1000	2	Northfield, Minn.	C—8:15-9:30; 3:00-4:00		
WDSU	ak	1000	C	New Orleans, La.	C—8:00-11:00		
WGCP	ak	250	1	Newark, N. J.	E—8:00-10:00; 12:30-6:30; 9:00-mid.		
X WLB	ak	1000	2	Minneapolis, Minn.	C—Silent		
WODA	z	1000	1	Paterson, N. J.	E		
X WRHM	ak	1000	2	Minneapolis, Minn.	C—9:30-3:00; 4:00-7:00; 8:00-mid.		
X XEFA	z	500	.....	Mexico City, D. F.	C		

1260 kilocycles 238.0 meters

X KOIL	ak	1000	B	Council Bluffs, Iowa.	C—8:00-1:00		
KRGV	ae	500	1	Harlingen, Texas.	C—Silent		
KUOA	ak	1000	.....	Fayetteville, Ark.	C—7:00-6:30		
KVOA	ak	500	.....	Tucson, Ariz.	M—7:00-9:00; 11:00-3:00; 6:00-9:00		
KWWG	z	500	1	Brownsville, Texas.	C		
WLBW	ae	500	C(1)	Erie, Pa.	E—9:00-1:00		
WNBX	ak	250	D	Springfield, Vt.	E—10:30-noon		
X WTOC	ae	500	C	Savannah, Ga.	E—8:00-mid.		
X XEFI	ak	250	.....	Chihuahua, Chih.	C—11:00-3:00; 8:00-10:30		

1270 kilocycles 236.1 meters

CMBC	ae	150	1	Havana, Cuba.	E—2:00-11:00		
CMCP	z	150	1	Havana, Cuba.	E		
KGCA	ak	100	2D	Decorah, Iowa.	C—10:45-noon		
KOL	ae	1000	CT	Serttle, Wash.	P—8:00-mid.		
X KQVOR	ae	1000	C	Colorado Springs, Colo.	M—8:00-11:00		
KWLC	ak	100	2D	Decorah, Iowa.	C—Silent		
WASH	ak	500	Ka	Grand Rapids, Mich.	E—9:00-mid.		
WFBR	ae	500	R	Baltimore, Md.	E—8:00-1:00		
X WJDX	ae	1000	N	Jackson, Miss.	C—10:15-11:00		
X WOOD	ak	500	Ka	Grand Rapids, Mich.	E—9:00-mid.		

1280 kilocycles 234.2 meters

CMJI	ak	45	.....	Ciego de Avila, Cuba.	E—10:00-1:30; 6:00-10:00		
X KFBB	ae	1000	(2.5)	Great Falls, Mont.	M—9:00-1:00; 6:00-10:00		
WCAM	ae	500	1	Camden, N. J.	E—10:15-12:30; 3:00-5:00		
WCAP	ae	500	1	Asbury Park, N. J.	E—9:00-10:15; 8:00-9:00		
X WDOD	ae	1000	C(2.5)	Chattanooga, Tenn.	C—7:00-11:00		
WIBA	ae	500	N(1)	Madison, Wis.	C—8:00-mid.		
WORC	ak	100	CH	Worcester, Mass.	E—9:00-11:00		
X WRR	ak	500	C	Dallas, Texas.	C—7:00-11:00		
WTNJ	ak	500	1	Trenton, N. J.	E—5:00-8:00; 9:00-mid.		
X XEFW	ak	70	.....	Tampico, Tams.	C—10:00-1:00		

1290 kilocycles 232.4 meters

CMHL	ak	20	.....	Cienfuegos, Cuba.	E—10:00-noon; 6:00-9:00		
X KDYL	ae	1000	NJ	Salt Lake City, Utah.	M—6:30-1:00		
KL CN	z	100	D	Blytheville, Ark.	C		
X K TSA	ak	1000	C	San Antonio, Texas.	C—7:00-mid.		
WEBC	ae	1000	N(2.5)	Superior, Wis.	C—7:00-11:00		
WJAS	ak	1000	C(2.5)	Pittsburgh, Pa.	E—9:00-mid.		
WNBZ	z	50	D	Saranac Lake, N. Y.	E		
X EAC	z	100	1295	San Luis Potosi, S. L. P.			
X FB	z	500	.....	Jalapa, Ver.			

1300 kilocycles 230.6 meters

CMKJ	z	20	.....	Guantanamo, Cuba.	E		
KALE	ak	500	3CT	Portland, Ore.	P—9:00-10:00		
X KFAC	ae	1000	.....	Los Angeles, Calif.	P—8:00-11:00		
X KFH	ak	1000	C2	Wichita, Kans.	C—8:00-10:00; 1:00-7:00; 9:00-11:00		
X KFJR	ag	500	3	Portland, Ore.	P—Silent		
X WKV	z	30	.....	St. John's, Nfld.	L		
WBBR	aej	1000	1	Brooklyn, N. Y.	E—6:00-7:00; 8:00-11:00; 3:00-8:00		
WEVD	ak	500	1	New York, N. Y.	E—2:00-3:00		
X WFA	ae	1000	1	New York, N. Y.	E—9:00-10:00; 11:00-mid.		
X WHAZ	ae	500	1	Troy, N. Y.	E—Silent		
X WIOD	ae	1000	N	Miami, Fla.	E—8:00-mid.		
WQ	ae	1000	2	Kansas City, Mo.	C—7:00-8:00; 10:00-1:00; 7:00-9:00; 11:00-mid.		

1310 kilocycles 228.9 meters

CFJC	ak	100	FLE	Kamloops, B. C.	P—6:00-7:30		
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CHCK	ak	100	.....	Charlottetown, P. E. I.	A—11:00-1:30; 3:00-5:00; 7:00-8:30
CKCV	ak	100	.....	Quebec, Que.	E—Silent
KCRJ	ak	100	D	Jerome, Airz.	M—Silent
KFBK	ak	100	C	Sacramento, Calif.	P—8:00-11:00
XKFGQ	ak	100	7	Boone, Iowa.	C—8:30-9:00; 2:30-4:00; 7:30-9:00; 11:00-mid.
XKFPL	ak	100	.....	Dublin, Texas.	C—Silent
XKFPM	ae	15	.....	Greenville, Texas.	C—Silent
XKFXR	ak	100	(.25)	Oklahoma City, Okla.	C—9:30-9:30
XKFYO	ak	100	(.25)	Lubbock, Texas.	C—8:00-noon; 4:00-8:00
XKGBX	ae	100	.....	Springfield, Mo.	C—7:30-1:00; 3:30-10:00
XKGCX	ak	100	(.25)	Wolf Point, Mont.	M—Silent
KGBZ	aj	100	.....	Kalispell, Mont.	M—9:00-2:00
KGFV	ak	100	.....	Kearney, Neb.	C—8:30-1:00
KIFH	z	100	.....	Juneau, Alaska.	L
KIT	ak	100	.....	Yakima, Wash.	P—9:00-2:00; 6:00-10:00
KMED	ck	100	.....	Medford, Ore.	P—10:00-noon
XKRMD	ak	100	.....	Shreveport, La.	C—9:00-6:00
XKTSM	ak	100	a	El Paso, Texas.	M—8:00-9:30; 1:00-7:00
XKRRO	ak	100	.....	Aberdeen, Wash.	P—10:00-7:00
WAML	ak	100	.....	Laurel, Miss.	C—noon-7:00
XWBEO	ae	100	.....	Marquette, Mich.	C—9:00-1:30
XWBOW	ak	100	.....	Terre Haute, Ind.	C—9:00-10:00
WBRE	ak	100	.....	Wilkes Barre, Pa.	E—10:30-9:30
XWCLS	ae	100	b	Joliet, Ill.	C—9:00-2:00; 6:00-8:00
XWDAH	ck	100	Sa	El Paso, Texas.	M—9:30-noon; 8:00-9:00
XWEBR	aej	100	Q (.25)	Buffalo, N. Y.	E—9:00-mid.
XWEXL	ak	50	.....	Royal Oak, Mich.	E—8:30-mid.
XWFBG	ae	100	3	Altoona, Mich.	E—11:30-1:00; 3:30-4:30; 7:15-10:15
XWDFD	ak	100	K	Flint, Mich.	E—9:00-mid.
WGAL	ae	100	5	Lancaster, Pa.	E—11:00-2:30; 4:30-6:00
WGH	ae	100	.....	Newport News, Va.	E—9:00-9:30
WHAT	ak	100	4	Philadelphia, Pa.	E—9:00-10:15; 8:00-mid.
XWIAS	ak	100	7	Ottumwa, Iowa.	C—10:00-2:30; 5:00-7:00
WJAC	ae	100	3	Johnstown, Pa.	E—4:30-6:15
XWKBB	ae	100	b	Joliet, Ill.	C—2:00-6:00
WKBC	ak	100	.....	Birmingham, Ala.	C—4:00-10:30
WLBC	ak	50	6	Muncie, Ind.	C—10:00-4:30
WMBO	ak	100	.....	Auburn, N. Y.	E—5:00-9:00
XWNBH	ae	100	(.25)	New Bedford, Mass.	E—11:00-9:00
WOL	ae	100	.....	Washington, D. C.	E—1:00-6:00
WRAW	ak	100	5	Reading, Pa.	E—6:30-8:30
WROL	ak	100	.....	Knoxville, Tenn.	C—8:30-1:30; 4:00-11:00
XWSAI	ae	100	.....	Grove City, Pa.	E—4:30-5:00
XWSIS	ak	100	C	Winston-Salem, N. C.	E—8:00-mid.
XWTEL	ah	100	4	Philadelphia, Pa.	E—11:30-2:00; 4:00-7:00
WTJS	ak	100	(.25)	Jackson, Tenn.	C—10:00-6:00
XWTRC	ak	50	6 (1)	Elkhart, Ind.	C—11:00-9:00
XEFB	ak	100	1315	Monterrey, N. L.	C—8:00-3:00
XEI	ak	250	.....	Moravia, Mich.	C—7:00-9:00

## 1320 kilocycles 227.1 meters

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CMCY	ak	500	1325	Havana, Cuba.	E—8:30-10:30
XKGFH	ak	250	(.5)	Pueblo, Colo.	M—9:00-3:30
KGMB	ak	250	C	Honolulu, T. H.	L—11:00-11:00
KID	ae	250	(.5)	Idaho Falls, Idaho.	M—6:00-11:00
WADC	ae	1000	C	Akron, Ohio.	E—8:00-mid.
XWSMB	ak	500	N	New Orleans, La.	C—7:00-mid.

## 1330 kilocycles 225.4 meters

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XKGB	ae	1000	CT	San Diego, Calif.	P—8:00-mid.
KMO	ak	250	.....	Tacoma, Wash.	P—6:45-11:00
KSCJ	aj	1000	1C (.25)	Sioux City, Iowa.	C—8:00-11:00
XWDRC	ae	500	CH	Hartford, Conn.	E—10:00-mid.
XWSAI	ak	500	R (1)	Cincinnati, Ohio.	E—9:00-mid.
WTAQ	ae	1000	IC	Eau Claire, Wis.	C—8:00-8:00
XEQ	z	500	.....	Mexico City, D. F.	

## 1340 kilocycles 223.7 meters

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XKFPY	ak	1000	C	Spokane, Wash.	P—9:00-1:00
KGDY	ak	250	.....	Huron, S. D.	C
KGNO	ak	250	.....	Dodge City, Kans.	C—10:45-4:00; 7:45-9:00
XWCOA	ae	500	.....	Pensacola, Fla.	E—9:00-3:30
WLEC	z	250	(.5)	Portland, Maine.	E—(Mail returned)
XWSPD	ae	1000	C	Toledo, Ohio.	E—9:00-mid.

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With Sunday's Time on the Air

## 1350 kilocycles 222.1 meters

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KIDO	ak	1000	.....	Boise, Idaho.	M—10:00-7:00
XKWK	ak	1000	B	St. Louis, Mo.	C—8:00-11:00
TGW	ak	500	.....	Guatemala City, Gua.	L—noon-1:00
XWAWZ	ae	250	1	Zarephath, N. J.	E—6:00-9:00; 11:00-12:30; 3:00-4:30; 7:00-8:30
WBXN	ae	250	1a	New York, N. Y.	E—12:30-3:00; 4:30-6:00
WEHA	ae	250	1a	New York, N. Y.	E—9:00-11:00; 12:30-3:30; 4:30-7:00; 8:30-2:00
XWEHC	ae	500	D	Charlottesville, Va.	E—8:30-9:00; 11:00-noon; 2:30-3:30
WMSG	ae	250	1a	New York, N. Y.	E—Silent

## 1360 kilocycles 220.4 meters

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CMJP	ak	75	.....	Moron, Cuba.	E—10:00-noon; 8:00-10:00
XKGER	ak	1000	.....	Long Beach, Calif.	P—7:00-11:00
KGIR	ak	500	N(1)	Butte, Mont.	M—9:00-mid.
XWCSC	ae	500	.....	Charleston, S. C.	E—8:00-2:00; 7:00-10:30
WFBL	ak	1000	C(2.5)	Syracuse, N. Y.	E—8:00-1:00
XWGES	ae	500	.....	Chicago, Ill.	C—8:00-10:30; 11:45-1:00; 3:30-7:00; 11:00-1:00
XWQBC	ak	500	.....	Vicksburg, Miss.	C—10:00-9:00

## 1370 kilocycles 218.8 meters

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CMCN	z	250	1375	Havana, Cuba.	E
CMCR	ak	150	1375	Havana, Cuba.	E—9:00-11:00
CMGE	z	30	1375	Cardenas, Cuba.	E
HRB	z	2300	.....	Tegucigalpa, Hond.	L
XKCRC	ak	100	2(.25)	Enid, Okla.	C—11:00-3:00
KFBF	ae	50	3	Everett, Wash.	P—7:00-9:00
XKFJM	ak	100	.....	Grand Forks, N. D.	C—7:00-9:00
XKFJZ	ae	100	.....	Fort Worth, Texas.	C—8:00-11:00
KGAR	ae	100	(.25)	Tucson, Ariz.	M—9:00-9:00
XKGFQ	bk	100	2	Oklahoma City, Okla.	C—9:30-11:00; 3:00-11:00
XKGLF	ak	100	4	Roswell, N. M.	M—8:00-9:30; 3:00-6:00
XKGLK	ak	100	.....	San Angelo, Texas.	C—8:15-2:00; 7:00-10:00
KICA	ak	100	4	Clovis, N. M.	M—11:00-2:00
KLUF	z	100	.....	Galveston, Texas.	C
XKMAC	ak	100	5	San Antonio, Texas.	C—Mid-12:30; 7:00-9:00; 11:00-12:30; 2:00-4:00; 6:00-8:00; 10:00-mid.
XKONO	ak	100	5	San Antonio, Texas.	C—9:00-11:00; 12:30-2:00; 4:00-6:00; 8:00-10:00
KOOS	ae	100	.....	Marshfield, Ore.	P—10:00-6:00
KRE	ak	100	.....	Berkeley, Calif.	P—10:00-2:00; 4:00-6:00; 6:45-9:45
XKSO	ak	100	B(.25)	Des Moines, Iowa.	C—7:00-mid.
KUJ	ak	100	.....	Walla Walla, Wash.	P—7:45-9:00
KVL	ak	100	3	Seattle, Wash.	P—4:30-7:00; 9:30-mid.
KWKC	z	100	.....	Kansas City, Mo.	C
WBTM	ak	100	7	Danville, Va.	E—7:00-10:00
WCBM	ae	100	(.25)	Baltimore, Md.	E
WDAS	ae	100	(.25)	Philadelphia, Pa.	E—9:00-11:00
WGL	ae	100	C	Fort Wayne, Ind.	C—2:00-mid.
WGLC	ak	100	C	Hudson Falls, N. Y.	E—9:00-mid.
XWHBD	ak	100	.....	Mount Orab, Ohio.	E—10:00-7:00
WHBQ	ak	100	.....	Memphis, Tenn.	C—10:30-9:00
XWHDF	ak	100	(.25)	Calumet, Mich.	E—10:00-2:00; 4:30-8:30
XWIBM	ae	100	1K	Jackson, Mich.	E—7:30-8:00
XWJBK	ae	50	1	Detroit, Mich.	E—9:00-Sunset; 9:00-mid.
WJTL	ae	100	.....	Atlanta, Ga.	E—11:00-5:30; 7:45-9:30
WLEY	ak	100	(.25)	Lexington, Mass.	E—1:30-3:00
WLVA	ck	100	7	Lynchburg, Va.	E—10:00-3:30
WMBR	ak	100	.....	Tampa, Fla.	E—9:00-1:30
WPFB	ak	100	.....	Hattiesburg, Miss.	C—8:00-4:00
WQDM	ae	100	D	St. Albans, Vt.	E—10:00-2:00
WRAK	ak	100	.....	Williamsport, Pa.	E—10:15-noon; 3:00-5:00; 6:30-10:00
WRAM	ae	100	.....	Wilmington, N. C.	E—10:00-10:00
WRDO	ae	100	.....	Augusta, Maine.	E—9:30-12:30
WRJN	ae	100	.....	Racine, Wis.	C—9:00-2:30; 4:00-10:30
WSVS	ak	50	D	Buffalo, N. Y.	E—Silent
XEFV	ae	100	.....	Juarez, Chih.	C—9:00-3:00; 5:00-11:00
XEFZ	ae	100	.....	Mexico City, D. F.	C—8:00-10:00

## 1380 kilocycles 217.3 meters

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CMJC	z	150	1382	Camaguey, Cuba.	E
XKOH	ak	500	C	Reno, Nev.	P—8:00-10:00
KQV	ak	500	2	Pittsburgh, Pa.	E—10:00-7:00
XKBH	ae	1000	C	LaCrosse, Wis.	C—9:00-10:00
WSMK	ak	200	2	Dayton, Ohio.	E—8:00-mid.
XETB	z	125	.....	Torreón, Coah.	

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1390 kilocycles 215.7 meters

HIH	z	15	1395
XKLRA	ae	1000	C
XKOY	ae	500	(1)
XWHK	ae	1000	C(2.5)

San Pedro, D. R.	L
Little Rock, Ark.	C—7:00-mid.
Phoenix, Ariz.	M
Cleveland, Ohio.	E—8:00-mid.

1400 kilocycles 214.2 meters

KLO	ah	500	C
KOCW	z	250	(.5)
WARD	ak	500	2
WBAA	z	500	1
WBBC	ae	500	2
WFOJ	ak	500	2
XWKBF	ak	500	1
XWLTH	ak	500	2

Ogden, Utah.	M—9:00-10:30
Tulsa, Okla.	C
Brooklyn, N. Y.	E—10:30-noon; 7:00-9:00
Lafayette, Ind.	C—Silent
Brooklyn, N. Y.	E—6:00-9:30; 8:00-9:30
Brooklyn, N. Y.	E—Noon-1:30; 4:30-7:00
Indianapolis, Ind.	C—9:30-11:00
Brooklyn, N. Y.	E—1:30-4:30; 10:30-12:30

1410 kilocycles 212.6 meters

CFKC	ak	50	5
CKMO	z	100	5
CMCH	ak	50	.....
CMCM	z	15	.....
XKFLV	ak	500	4
KGRS	ae	1000	1
WAAB	ae	500	CH
XWBCM	ae	500	K
WDAG	ae	1000	1
XWHBL	ae	500	4
XWHIS	ak	250	2
XWDX	ae	500	3C
WRBX	ae	250	2
WSFA	ck	500	3C

Vancouver, B. C.	P—10:45-6:00; 7:30-9:00
Vancouver, B. C.	P
Havana, Cuba.	E—3:00-7:00
Havana, Cuba.	E
Rockford, Ill.	C—10:00-2:30; 6:00-9:30
Amarillo, Texas.	C—6:00-10:00; 11:00-3:00; 5:00-7:30; 10:00-mid.
Boston, Mass.	E—9:00-11:30
Bay City, Mich.	E—9:00-mid.
Amarillo, Texas.	C—10:00-11:00; 3:00-5:00; 7:30-10:00
Sheboygan, Wis.	C—9:00-10:00
Bluefield, W. Va.	E—9:00-5:00
Mobile, Ala.	C—9:30-6:15; 7:45-10:30
Roanoke, Va.	E—8:00-Sunset
Montgomery, Ala.	C—6:00-7:45

1420 kilocycles 211.1 meters

XKABC	ak	100	.....
KBPS	aj	100	4
XKCMC	ak	100	.....
KFIZ	ak	100	.....
XKGFF	ak	100	.....
KGGC	ak	100	.....
XKIW	ak	100	1
KGIX	ak	100	.....
XKICK	z	100	.....
XKIDW	z	100	1
KORE	ae	100	.....
KUMA	ak	100	.....
XKWCR	ak	100	B(.25)
XKXL	ak	100	4
XWAGO	ak	100	C
WAMC	ae	100	.....
WAMC	ae	100	.....
WAZL	ak	100	2
WEED	ak	100	DP
WEHS	ak	100	a
XWELL	ak	50	.....
WENC	ak	100	D
WHDL	ae	100	D
WHFC	ae	100	a
WILM	aj	100	2
WJBO	z	100	DY
XWJMS	ak	100	.....
WKBI	ak	100	a
XWLBF	ak	100	.....
WMAS	ak	100	CH(.25)
XWMBG	ag	100	(.25)
XWMBH	ak	100	(.25)
WMED	z	100	D
WPAD	ak	100	.....
XWSPA	ae	100	(.25)
WTBO	ae	100	(.25)

San Antonio, Texas.	C—8:00-10:30
Portland, Ore.	P—Silent
Texarkana, Ark.	C—11:00-2:00; 6:00-8:00
Fond du Lac, Wis.	C—Silent
Shawnee, Okla.	C—10:15-9:00
San Francisco, Calif.	P—9:00-12:30; 2:30-5:00; 7:00-10:00
Trinidad, Colo.	M—11:00-12:15; 3:30-6:00
Las Vegas, Nev.	M—Silent
Carter Lake, Iowa.	C
Lamar, Colo.	M—8:00-10:00; 7:00-10:00
Eugene, Ore.	P—10:00-3:00; 6:00-9:00
Yuma, Ariz.	M—6:00-9:00
Cedar Rapids, Iowa.	C—7:00-mid.
Portland, Ore.	P—8:00-Mid.
Waco, Texas.	C—8:00-2:00; 5:00-10:30
Presque Isle, Maine.	E—10:30-12:30
Anniston, Ala.	C—9:00-12:30; 4:00-9:00
Hazleton, Pa.	E—3:00-9:00
Greenville, N. C.	E—10:00-1:00
Cicero, Ill.	C—4:00-8:00
Battle Creek, Mich.	E—10:45-9:30
Americus, Ga.	C—8:30-6:00
Tupper Lake, N. Y.	E—11:15-2:15
Cicero, Ill.	C—8:00-4:00; 8:00-1:00
Wilmington, Del.	E—Silent
New Orleans, La.	C
Ironwood, Mich.	C—10:00-7:00
Cicero, Ill.	C—Silent
Kansas City, Kans.	C—9:00-11:30
Springfield, Mass.	E—8:00-11:00
Detroit, Mich.	E—9:45-mid.
Joplin, Mo.	C—10:50-2:30; 7:30-9:30
Florence, Ala.	C
Paducah, Ky.	C—7:00-9:00; 10:00-2:00; 3:00-10:30
Spartanburg, S. C.	E—10:30-3:00; 5:00-9:30
Cumberland, Md.	E—1:00-5:00

1430 kilocycles 209.7 meters

CFCT	ae	500	.....
XKECA	ak	1000	N
KGNF	ak	500	D

Victoria, B. C.	P—11:00-12:30; 7:00-9:00
Los Angeles, Calif.	P—8:00-11:00
North Platte, Neb.	C—10:30-2:00

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With Sunday's Time on the Air

WBAK	ak	500	I (1)	Harrisburg, Pa.	E—Silent
WCAF	ae	500	1C	Columbus, Ohio.	E—8:00-mid.
WFEA	ae	500	CH	Manchester, N. H.	E—9:00-11:00
XWHEC	ae	500	C	Rochester, N. Y.	E—8:00-mid.
WHP	ak	500	1C (1)	Harrisburg, Pa.	E—8:30-1:00
XWNER	ak	500	.....	Memphis, Tenn.	C—9:30-1:00; 5:30-9:00
WOKO	ae	500	C	Albany, N. Y.	E—9:00-1:00

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; 8:00-10:00
KDFN	ak	500	.....	Casper, Wyo.	M—10:00-11:00
KLS	ak	250	D	Oakland, Calif.	P—10:00-4:30
KXYZ	ak	250	.....	Houston, Texas.	C—8:15-1:00; 2:30-10:00
TIFS	z	7.5	1441	Cartago, C. R.	L
XWBIG	ae	500	C(1)	Greensboro, N. C.	E—9:00-11:00
WCB	aj	250	a	Allentown, Pa.	E—10:00-11:30
XWMBD	ae	500	3C(1)	Peoria, Ill.	C—8:00-Noon; 8:30-mid.
WSAN	aj	250	a	Allentown, Pa.	E—10:00-11:30
WTAD	ak	500	3	Quincy, Ill.	C—Noon-1:30; 3:30-8:30

1450 kilocycles 206.8 meters 

144		
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XKTBS	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	.....	Fall River, Mass.	E—Silent
WTFI	ak	500	.....	Athens, Ga.	E—8:00-2:30; 8:30-9:30
XEAB	ak	7.5	.....	Nuevo Laredo, Tams.	C—10:00-2:00

1460 kilocycles 205.4 meters 

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XKSTP	ae	2500	(N10)	St. Paul, Minn.	C—8:00-mid.
XWJSV	ak	10000	C	Washington, D. C.	E—7:30-mid.

1470 kilocycles 204.0 meters 

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KGA	ak	5000	N	Spokane, Wash.	P—8:00-mid.
XWLAC	ae	5000	C	Nashville, Tenn.	C—8:00-11:00

1480 kilocycles 202.6 meters 

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XKOMA	ak	5000	C	Oklahoma City, Okla.	C—7:00-mid.
XWKBW	ae	5000	C	Buffalo, N. Y.	E—9:30-mid.

1490 kilocycles 201.2 meters 

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XWCKY	ae	5000	BY	Covington, Ky.	E—11:00-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—8:00-mid.
XKGF	ak	100	(.25)	Corpus Christi, Tex.	C—7:00-3:00; 6:00-10:00
XKGFK	ak	100	.....	Moorhead, Minn.	C—9:00-9:00
XKGBK	ak	100	.....	Tyler, Texas.	C—9:00-1:30; 5:30-9:00
XKGY	ck	100	.....	Scottsbluff, Neb.	M—10:00-mid.
XKNOW	ak	100	.....	Austin, Texas.	C—9:00-2:30; 6:00-10:00
KPJM	ak	100	.....	Prescott, Ariz.	M—Mid-3:00; 5:00-7:00
KPQ	aj	100	.....	Wenatchee, Wash.	P—9:00-1:00
KREG	ak	100	.....	Santa Ana, Calif.	P—10:00-12:45; 7:00-8:30
KXO	al	100	.....	El Centro, Calif.	P—9:00-3:00
WFDV	ak	100	.....	Rome, Ga.	C—9:00-3:00; 6:00-9:00
WHEF	z	100	P(.25)	Kosciusko, Miss.	C—Silent
WKBV	z	100	.....	Connerville, Ind.	C
XWKBZ	ak	100	.....	Ludington, Mich.	E—Silent
XWKEU	ak	100	.....	LaGrange, Ga.	C—3:00-6:00
WMBQ	ae	100	.....	Brooklyn, N. Y.	E—7:00-11:00
WMIL	ak	100	I	Brooklyn, N. Y.	E—9:00-11:00; 11:00-1:00
XWMP	ak	100	.....	Lapeer, Mich.	E—10:00-2:00; 3:30-6:00; 7:30-1:00
WNB	ae	100	.....	Binghamton, N. Y.	E—10:30-12:30; 2:30-10:00
WOP	ae	100	.....	Bristol, Tenn.	E—10:30-1:00; 6:00-7:30
WPN	ck	100	(.25)	Philadelphia, Pa.	E—9:00-10:00
XWRDW	ae	100	.....	Augusta, Ga.	E
WSYB	ae	100	.....	Rutland, Vt.	E—10:00-11:00
WWRL	ak	100	I	Woodside, N. Y.	E—7:00-8:00; 10:00-6:00
WWSW	ae	100	(.25)	Pittsburgh, Pa.	E—8:30-9:30

## 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.

<b>ALABAMA</b>				Hollywood				Storrs				Chicago			
Anniston				×KFVB	950	1000		WCAC	600	250		×KYW	1020	10000	N
WAMC	1420	100		×KMTR	570	500		<b>DELAWARE</b>				×WAAF	920	500	
Birmingham				×KNX	1050	25000		Wilmington				×WBBM	770	25000	C
×WAPI	1140	5000	N	Long Beach				WDEL	1120	250		×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	
Florence				Los Angeles				Washington				×WENR	870	50000	N
WMED	1420	100		×KECA	1430	1000	N	WWSJ	1460	10000	C	×WGES	1360	500	
Gadsden				×KFAC	1300	1000		WMAL	630	250	B	×WGN	720	25000	C
×WJBY	1210	100		×KFI	640	50000	N	WOL	1310	100		×WJD	1130	20000	
Huntsville				KFSG	1120	500		×WRC	950	500	R	WLS	870	50000	N
WBHS	1200	100		KFVD	1000	250		<b>FLORIDA</b>				×WMAQ	670	5000	N
Mobile				KGFJ	1200	100		Clearwater				×WMBI	1080	5000	N
×WODX	1410	500	C	×KHJ	900	1000	C	WFLA	620	1000	N	×WBC	1210	100	
Montgomery				KRDK	1120	500		WFLS	620	1000	N	Cicero			
WSFA	1410	500	C	KTM	780	500		WRUF	830	5000		WEHS	1420	100	
Troy				Oakland				WVBC	830	5000		WHFC	1420	100	
WHET	1210	100		KLS	1440	250		WJAX	900	1000	N	WKBI	1420	100	
<b>ALASKA</b>				KLX	880	1000		Jacksonville				Decatur			
Anchorage				KROW	930	500		WJAX	900	1000	N	×WJBL	1200	100	
KFQD	600	250		Pasadena				WIOD	1300	1000	N	Harrisburg			
Juneau				KPPC	1210	50		WQAM	560	1000	C	×WEBQ	1210	100	
KIFH	1310	100		Sacramento				WVOD	1300	1000	N	WJOL			
Ketchikan				KFBK	1310	100	C	×WDBO	580	250	C	×WCLS	1310	100	
KGBU	900	500		San Bernardino				Pensacola			×WKBB	1310	100		
<b>ARIZONA</b>				KFXM	1210	100		×WCOA	1340	500		LaSalle			
Jerome				San Diego				St. Petersburg			×WJBC	1200	100		
KCRJ	1310	100		×KFS	600	1000	N	WSUN	620	1000	N	Peoria			
Lowell				KGB	1330	1000	C	Tampa			×WMBD	1440	500	C	
KIGY	1200	100		San Francisco				WDAE	1220	1000	C	Quincy			
Phoenix				×KFRC	610	1000	C	WMBR	1370	100		WTAD	1440	500	
×KOY	1390	500		KFWI	930	500		<b>GEORGIA</b>				Rockford			
KTAR	620	500	N	KGGC	1420	100		Americus			×KFLV	1410	500		
Prescott				×KGO	790	7500	N	WENC	1420	100		Rock Island			
KPJM	1500	100		KJBS	1070	100		WTFI	1450	500		×WHBF	1210	100	
Tucson				×KPO	680	50000	N	Atlanta			×WCBF	1210	100		
KGAR	1370	100		KTAB	560	1000		×WGST	890	250	C	×WTAX	1210	100	
KVOA	1260	500		KYA	1230	1000	N	WJTL	1370	100		Tuscola			
Yuma				San Jose				×WSB	740	5000	N	×WDZ	1070	100	
KUMA	1420	100		KQW	1010	500		Augusta			Urban				
<b>ARKANSAS</b>				Santa Ana				×WRDW	1500	100		×WILL	890	250	
Blytheville				KREG	1500	100		Columbus			Zion				
KLCN	1290	100		Santa Barbara				WRBL	1200	100		×WCBD	1080	5000	
Fayetteville				KDB	1500	100	C	LaGrange			<b>INDIANA</b>				
KUOA	1260	1000		Stockton				×WKBU	1500	100	Anderson				
Fort Smith				KGDM	1100	250		Macon			×WBHU	1210	100		
KFPW	1210	100		KWG	1200	100	C	WMAZ	1180	500	Connersville				
Hot Springs				<b>COLORADO</b>				Rome			WKBV	1500	100		
×KTHS	1040	10000	N	Colorado Springs				WFDV	1500	100	Elkhart				
Little Rock				×KVOR	1270	1000	C	Savannah			×WTRC	1310	50		
KARK	890	250		Denver				WTOC	1260	500	Evansville				
×KGGH	1200	100		KFBL	920	500		Thomasville			×WGBF	630	500		
×KLRA	1390	1000	C	×KFKE	920	500		WQDX	1210	100	Fort Wayne				
Paragould				KLZ	560	1000	C	HAWAII			WGL	1370	100	C	
×KBTM	1200	100		×KOA	830	12500	N	Hilo			×WOWO	1160	10000	C	
Texarkana				KPOF	880	500		KWVF	1210	100	Gary				
×KCMC	1420	100		Grand Junction				Honolulu			×WIND	560	1000	C	
<b>CALIFORNIA</b>				KFKJ	1200	100		KGMB	1320	250	Hammond				
Bakersfield				Greeley				KGU	750	2500	WVAE	1200	100		
KERN	1200	100	C	KFKA	880	500		<b>IDAHO</b>				Indianapolis			
Berkeley				Lamar				Boise			×WFBM	1230	1000	C	
KRE	1370	100		×KIDW	1420	100		KIDO	1350	1000	WKBV	1400	500		
Beverly Hills				Pueblo				KID	1320	250	Muncie				
×KMPC	710	500		×KGFH	1320	250		Idaho Falls			WLBC	1310	50		
Burbank				×KGIW	1420	100		Nampa			South Bend				
KELW	780	500		Yuma				KFXD	1200	100	WFAM	1200	100	C	
El Centro				×KGEK	1200	100		Pocatello			WSBT	1230	500	C	
KXO	1500	100		<b>CONNECTICUT</b>				×KSEI	890	250	Terre Haute				
Eureka				Bridgeport				Twin Falls			×WBOW	1310	100		
KIEM	1210	100		WICC	600	250	C	×KTFL	1240	1000	West Lafayette				
Fresno				Hartford				<b>ILLINOIS</b>				WBAA	1400	500	
KMJ	580	500	C	×WDRC	1330	500	C	Carthage			<b>IOWA</b>				
Glendale				×WTIC	1060	50000	R	WCAZ	1070	50	Ames				
KLEV	850	100									×WOI	640	5000		

## INDEX BY LOCATIONS

Boone KFGQ 1310 100 Carter Lake X KICK 1420 100 Cedar Rapids X KWCR 1420 100 B Council Bluffs X KOIL 1260 1000 B Decorah KGCA 1270 100 KWLC 1270 100 Des Moines X KSO 1370 100 B X WOC 1000 5000 R X WHO	WLEC 1340 250 Presque Isle WAGM 1420 100	Northfield X WCAL 1250 1000 St. Paul X KSTP 1460 25000 N	York X KGBZ 930 500
Iowa City X WSIU 880 500 Marshalltown X KFJB 1200 100 Ottumwa X WIAS 1310 100 Shenandoah X KFNF 890 500 X KMA 930 500 St. Louis KSCJ 1330 1000 C Waterloo X WMT 600 500 C	MARYLAND Baltimore WBAL 1060 10000 B WCAO 600 250 C WCBM 1370 100 WFBF 1270 500 R Cumberland WTBO 1420 100 Hagerstown WJEJ 1210 100	MISSISSIPPI Greenville WKFI 1210 100 Hattiesburg WPFB 1370 100 Jackson X WJDX 1270 1000 N Kosciusko WHEF 1500 100 Laurel WAML 1310 100 Meridian X WCOC 880 500 Mississippi City X WGCM 1210 100 Vicksburg X WQBC 1360 500	NEVADA Las Vegas KGIX 1420 100 Reno X KOH 1380 500 C NEW HAMPSHIRE Manchester X WFEA 1430 500 C Portsmouth WHEB 740 250
KANSAS Abilene KFBI 1050 5000 Coffeyville X KGGF 1010 500 Dodge City KGNO 1340 250 Kansas City X WLBZ 1420 100 Lawrence KFKU 1220 500 X WREN 1220 1000 B Manhattan KSAC 580 500 Topeka X WIBW 580 1000 C Wichita X KFH 1300 1000 C	MASSACHUSETTS Babson Park WBSO 920 500 Boston WAAB 1410 500 C X WBZ 990 25000 B WEEI 590 1000 R WHDH 830 1000 X WNC 1230 1000 C Fall River WSAR 1450 250 Lexington WLEY 1370 100 New Bedford X WNBH 1310 100 Springfield X WBZA 990 1000 B WIAS 1420 100 C Worcester WOCR 1280 500 C WTAG 580 250 R	MISSOURI Cape Girardeau KFVS 1210 100 Columbia X KFRU 630 500 Jefferson City WOS 630 500 Joplin X WMBH 1420 100 Kansas City X KMBC 950 1000 C KWKC 1370 100 X WDAF 610 1000 R WHB 860 500 WQO 1300 1000 St. Joseph KFEQ 680 2500 St. Louis X KFVO 550 500 KFWF 1200 100 X KMOX 1090 5000 C X KSD 550 500 R X KWK 1350 1000 B WEW 760 1000 X WIL 1200 100 Springfield X KGBX 1310 100 KGIZ 560 500	NEW JERSEY Asbury Park WCAP 1280 500 Atlantic City X WPG 1100 5000 C Camden WCAM 1280 500 Jersey City WAAT 940 300 WHOM 1450 250 Newark WAAM 1250 1000 WGCP 1250 250 X WOR 710 5000 Paterson WODA 1250 1000 Red Bank WJBI 1210 100 Trenton WTNJ 1280 500 Zarephath X WAWZ 1350 250
KENTUCKY Covington X WCKY 1490 5000 B Hopkinsville X WFIV 940 1000 Louisville X WHAS 820 25000 C X WLAP 1200 100 Paducah WPAD 1420 100	MICHIGAN Battle Creek X WELL 1420 50 Bay City X WBCM 1410 500 Calumet X WHDF 1370 100 Detroit X WJBK 1370 50 WJR 750 10000 B X WMBZ 1420 100 X WWJ 920 1000 R WXYZ 1240 1000 East Lansing X WKAR 1040 1000 Flint X WFDL 1310 100 Grand Rapids WASH 1270 500 WOOD 1270 500 Ironwood X WJMS 1420 100 Jackson X WIBM 1370 100 Kalamazoo WKZO 590 1000 Lapeer X WMPC 1500 100 Ludington X WKBZ 1500 100 Marquette X WBEO 1310 100 Royal Oak X WEXL 1310 50	MONTANA Billings KGHL 950 1000 N Butte KGIR 1360 500 N Great Falls X KFBB 1280 1000 Kalispell KGEZ 1310 100 Missoula KGVO 1200 100 Wolf Point KGCC 1310 100	NEW MEXICO Albuquerque KGGM 1230 250 KOB 1180 10000 Clovis KICA 1370 100 Roswell X KGLF 1370 100
LOUISIANA Monroe KMLB 1200 100 New Orleans X WBBX 1200 100 WDSU 1250 1000 C WJBO 1420 100 WJBW 1200 100 X WSNB 1320 500 N X WWL 850 10000 Shreveport X KRMD 1310 100 X KTBS 1450 1000 N KWEA 1210 100 X KWKH 850 10000	MINNESOTA Fergus Falls X KGDE 1200 100 Minneapolis X WCCO 810 50000 C WDGY 1180 1000 WALB 1250 1000 X WRHM 1250 1000 Moorhead X KGFK 1500 100	NEBRASKA Clay Center KMMJ 740 1000 Kearney KGFV 1310 100 Lincoln X KFAB 770 5000 C KFOR 1210 100 Norfolk WJAG 1060 1000 North Platte KGNF 1430 500 Omaha WAAW 660 500 X WOW 590 1000 R Scottsbluff X KGTK 1500 100	NEW YORK Albany WOKO 1430 500 C Auburn WMBO 1310 100 Binghamton WNBF 1500 100 Brooklyn WARD 1400 500 WBBC 1400 500 WBBR 1300 1000 WFOX 1400 500 WLTH 1400 500 WMBQ 1500 100 WMIL 1500 100 Buffalo WBEN 900 1000 R X WEBR 1310 100 WGR 550 1000 C X WKBW 1480 5000 C WSVS 1370 50 Canton WCAD 1220 500 Chester WGNV 1210 50 Elmira WESG 1040 1000 Freeport WGBB 1210 100 Hudson Falls WGLC 1370 100 C Jamestown WOCL 1210 50 New York X WABC 860 5000 C
MAINE Augusta WRDO 1370 100 Bangor WABI 1200 100 WLBZ 620 500 C Portland WCSH 940 1000 R			

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WBNX 1350 250	Cleveland	Johnstown	TENNESSEE
WBOQ 860 50000	WGAR 1450 500 B	WJAC 1310 100	Bristol
WCDA 1350 250	XWHK 1390 1000 C	Lancaster	WOPI 1500 100
XWEAF 660 50000 R	WJAY 610 500	WGAL 1310 100	Chatanooga
WEVD 1300 500	XWTAM 1070 50000 R	WKJC 1200 100	XWDD 1280 1000 C
XWFAB 1300 1000	Columbus	Philadelphia	Jackson
WHN 1010 250	WAJU 640 500	XWCAU 1170 50000 C	WTJS 1310 100
WINS 1180 500	WCAH 1430 500 C	WDAS 1370 100	Knoxville
XWJZ 760 50000 B	WOSU 570 750	WFI 560 500 R	WNOX 560 1000 C
WLWL 1100 5000	XWSEN 1210 100	WHAT 1310 100	WROL 1310 100
WMCA 570 500	Dayton	WIP 610 500 C	Memphis
WMSG 1350 250	WSMK 1380 200	WLIT 560 500 R	WHBQ 1370 100
WNYC 810 500	Mount Orab	WPEN 1500 100	XWMC 780 500 N
XWVOV 1130 1000	XWHBD 1370 100	WRAX 1020 250	XWNBR 1430 500 C
WPAP 1010 250	Toledo	WTEL 1310 100	XWREC 600 500 C
WPCH 570 500	XWSPD 1340 1000 C	Pittsburgh	Nashville
WQAO 1010 250	Youngstown	XKDKA 980 50000 B	XWLAC 1470 5000 C
WRNY 1010 250	WKBN 570 500 C	KQV 1380 500	XWSM 650 50000 N
Rochester	Zanesville	XCAE 1220 1000 R	Springfield
XWHAM 1150 25000 B	XWALR 1210 100	WJAS 1290 1000 C	WSIX 1210 100
XWHEC 1430 500 C	OKLAHOMA	WWSW 1500 100 C	TEXAS
Saranac Lake	Elk City	Reading	Amarillo
WNBZ 1290 50	KASA 1210 100	WEUU 830 1000	KGRS 1410 1030
Schenectady	Enid	WRAW 1310 100	WDAG 1410 1030
XWGY 790 50000 R	XKCRK 1370 100	Scranton	Austin
Syracuse	Norman	WGBI 880 250	XKNOX 1500 100
WFBL 1360 1000 C	WNAD 1010 500	WQAN 880 250	Beaumont
WSYR 570 250 B	Oklahoma City	Silverhaven	KFDM 560 500
Troy	XKFXR 1310 100	WNBO 1200 100	Brownsville
XWHAZ 1300 500	XKGF 1370 100	Sunbury	KWWG 1260 570
Tupper Lake	XKOMA 1480 5000 C	WKOK 1210 100	College Station
WHDL 1420 100	XWKY 900 1000 N	Wilkes-Barre	WTAW 1120 500
Utica	Ponca City	WBAX 1210 100	C Corpus Christi
WIBX 1200 100	XWBBZ 1200 100	WBRE 1310 100	XKGTI 1500 100
White Plains	Shawnee	Williamsport	Dallas
WFAS 1210 100	XKGF 1420 100	WRAK 1370 100	XKRLD 1040 10000 C
Woodside	Tulsa	WORK 1000 1000	XWFAA 80J 50000 N
WWRL 1500 100	KOCW 1400 250	PHILIPPINES	XWRR 1280 500 C
NORTH CAROLINA	XKVO 1140 5000 N	Cebu	Dublin
Asheville	OREGON	KZRC 937.5 500	XKFPL 1310 100
WUNC 570 1000 N	Corvallis	Manila	El Paso
Charlotte	KOAC 550 1000	KZKA 1110 1000	XKTSM 1310 100
XWBT 1080 25000 C	Eugene	KZRM 618.5 50000	XWDAH 1310 100
Gastonia	KORE 1420 100	PORTO RICO	Fort Worth
XWSOC 1210 100	Klamath Falls	San Juan	XKFJZ 1370 100
Greensboro	KFJI 1210 100	XWKAQ 1240 1000	XKAT 1240 1000
XWBIG 1440 500 C	Marshfield	RHODE ISLAND	XWBAP 800 50000 N
Greenville	KOOS 1370 100	Providence	Galveston
WEED 1420 100	Medford	WEAN 780 500 C	XKLUF 1370 100
Raleigh	KMED 1310 100	XWJAR 890 500 R	Greenville
WPTF 680 5000 N	Portland	WPRO 1210 100 C	XKFPM 1310 15
Wilmington	KALE 1300 500 C	SOUTH CAROLINA	Harlingen
WRAM 1370 100	KBPS 1420 100	Charleston	KRGV 1260 500
Winston-Salem	XKEX 1180 5000 N	XWCSC 1360 500	Houston
XWSJS 1310 100 C	KFJR 1300 500	Columbia	XKPRC 920 1000 N
NORTH DAKOTA	KGW 620 1000 N	WIS 1010 500 N	XKTRH 1120 1000 C
Bismarck	KOIN 940 1000 C	Greenville	XKXYZ 1440 250
XKFYR 550 1000 N	KWJJ 1060 500	WFBG 1200 100	Lubbock
Devils Lake	KXL 1420 100	Spartanburg	XKFYO 1310 100
KDLR 1210 100	PENNSYLVANIA	XWSPA 1420 100	San Angelo
Fargo	Allentown	SOUTH DAKOTA	KGKL 1370 100
WDAY 940 1000 N	WCBA 1440 250	Brookings	San Antonio
Grand Forks	WSAN 1440 250	KFDY 550 500	XKABC 1420 100
XKFJM 1370 100	Altoona	Huron	XKMAC 1370 100
Mandan	WFBG 1310 100	KGDY 1340 250	XKONO 1370 100
XKCCU 1240 250	Carbondale	Pierre	XKTSA 1290 1000 C
Minot	WNBW 1200 10	Rapid City	XWQAI 1190 50000 N
XKLPM 1240 250	Erie	WCAT 1200 100	Tyler
OHIO	XWLBW 1260 500 C	Sioux Falls	XKGBK 1500 100
Akron	Glenside	KSOO 1110 1000	Waco
WADC 1320 1000 C	WBG 930 25	Vermillion	XWACO 1420 100 C
XWJW 1210 100	Grove City	Watertown	Wichita Falls
Canton	XWSAJ 1310 100	KGCR 1210 100	KGKO 570 250
XWHBC 1200 100	Harrisburg	Yankton	UTAH
Cincinnati	WBKA 1430 1000	WNAX 570 1000 C	Ogden
XWFBE 1200 100	WCOD 1200 100	KSL	KLO 1400 500 C
WKRC 550 1000 C	WHP 1430 500 C	Salt Lake City	XKDYL 1290 1000 N
XWLW 700 50000 N	Hazleton	1130 50000 C	
XWSAI 1330 500 R	WAZL 1420 100		



INDEX BY LOCATIONS

<b>VERMONT</b>		<b>WISCONSIN</b>		<b>NOVA SCOTIA</b>		<b>X CJRM 880 500</b>	
Burlington		Eau Claire		Glace Bay		Prince Albert	
WCAX 1200	100	WTAQ 1330	1000 C	VAS 685	2000	10-BJ 1200	25
Rutland		Fond du Lac		Halifax		Regina	
WSYB 1500	100	KFIZ 1420	100	CHNS 1050	500	CHWC 1010	500
St. Albans		Green Bay		Sydney		CKCK 1010	500
WQDM 1370	100	X WHBY 1200	100	CJCB 880	50	Saskatoon	
Springfield		Janesville		Wolfville		CFQC 890	500
WNBX 1260	250	X WCLO 1200	100	CKIC 1010	50	Yorkton	
Waterbury		LaCrosse		<b>ONTARIO</b>			
WDEV 550	500	WKBH 1380	1000 C	Brantford		NEWFOUNDLAND	
<b>VIRGINIA</b>		Madison		10-BQ 1200	15	St. John's	
Arlington		X WHA 140	1000	Chatham		VOAS 810	100
NAA 690	1000	WIBA 1280	500 N	CFCO 1210	100	VOY 890	100
Charlottesville		Manitowoc		Cobalt		VOKW 1300	30
X WEHC 1350	500	X WOMT 1210	100	CKMC 1210	100	VONF 1195	400
Danville		Milwaukee		Fort William		VOWR 750	500
WBTM 1370	100	Y WHAD 1120	250 C	CKPR 780	100	<b>CENTRAL AMERICA</b>	
Lynchburg		X WISN 1120	250 C	Hamilton		<b>COSTA RICA</b>	
WLVA 1370	100	X WTMJ 620	1000 N	CHML 890	50	Cartago	
Newport News		Peypnette		CKOC 1010	500	TIFS 1441	7.5
WGHP 1310	100	X WIBU 1210	100	Kingston		TIGA 1014	30
Norfolk		Racine		CFRC 915	100	San Jose	
WTAR 780	500 C	WRJN 1370	100	Kitchener		TIC 882	15
Petersburg		X SHEBOYGAN 1410	500	CKCR 645	100	TICR 1180	30
X WPHR 1200	100	WHL 1410	500	London		TIEA 833	7.5
Richmond		Stevens Point		CFPL 730	100	TIEP 1450	7.5
X WBL 1210	100	X WLBL 900	2500	North Bay		TIFB 714	30
WMBG 1210	100 C	Superior		CFCH 930	100	TIGP 666	75
X WRVA 1110	5000 N	WEBC 1290	1000 N	Ottawa		TIRCA 1100	500
Roanoke		<b>WYOMING</b>		CKCO 1010	100	TISO 600	50
WDBJ 930	250 C	Casper		X CRCO 880	500	TITV 999	7.5
WRBX 1410	250	KDFN 1440	500	Prescott		TIVL 860	30
<b>WASHINGTON</b>		<b>CANADA</b>		CFLC 930	100	TIXA 614	7.5
Aberdeen		<b>ALBERTA</b>		Preston		<b>GUATEMALA</b>	
CKXO 1310	100	Calgary		CKPC 930	100	Guatemala City	
Bellingham		CFA 690	500	St. Catharines		TGW 1350	500
KVOS 1200	100	CFCN 1030	10000	CKTB 1200	100	<b>HONDURAS</b>	
Everett		CJCF 690	500	Stratford		San Pedro Sula	
KFBL 1370	50	Edmonton		10-AK 1200	15	JRL 1350	7.5
Olympia		CHMA 580	250	Sudbury		Tegucigalpa	
KCY 1210	100	CJCA 730	500	CJCS 780	500	HRB 1370	2300
Pullman		CKUA 580	500	Toronto		<b>EL SALVADOR</b>	
X KWSC 1220	1000	Lethridge		CFCA 1120	100	San Salvador	
Seattle		CJOC 840	100	CFRB 690	10000 C	RUS 664	500
X KJR 970	5000 N	BRT. COLUMBIA		CKCL 580	100	<b>MEXICO</b>	
KOL 1270	1000 C	Chilliwack		CRCT 960	5000 N	<b>AGUASCALIENTES</b>	
KOMO 920	1000 N	CHWK 780	100	CKNC 1030	100	Aguascalientes	
X KPCB 650	100	Kamloops		Windsor		XFC 805	350
KRSC 1120	100	CFJC 1310	100	X CKLW 540	5000 C	<b>BAJA CALIFORNIA</b>	
KTW 1220	1000	Kelowna		Wingham		Mexicali	
KVL 1370	100	CKOV 1200	100	10-BP 1200	25	X XEAE 1000	50
KXA 760	250	Trail		PRINCE EDWARD		XEAO 560	100
Spokane		10-AT 1155	25	ISLAND		Tijuana	
KFIO 1120	100	Vancouver		Charlottetown		X EFD 855	300
X KFPY 1340	1000 C	CJOR 1210	500	CFCY 630	500	<b>CHIHUAHUA</b>	
KGA 1470	5000 N	CKCD 1010	100	CHCK 1310	100	Chihuahua	
X KHQ 590	1000 N	CKFC 1410	50	Summerside		XEFI 1260	250
Tacoma		CKMO 1410	100	CHGS 1120	100	Juarez	
KMO 1330	250	CKWX 730	100	QUEBEC		XEAN 750	5000
KVI 570	500 C	CRCV 1100	500	Chicoutimi		XEFV 1370	100
Walla Walla		Victoria		CRCS 1500	100	XEJ 1015	500
KUJ 1370	100	CFCT 1430	50	Hull		<b>COAHUILA</b>	
Wenatchee		<b>MANITOBA</b>		CKCH 1210	100	Piedras Negras	
KPC 1500	100	Brandon		Montreal		X XEPN 585	75000
Yakima		CKX 930	500	CFCF 600	400 N	Salttillo	
KIT 1310	100	Winnipeg		CHLP 1120	100	XEL 1000	40
<b>WEST VIRGINIA</b>		X CKY 910	5000	CKAC 730	5000 C	Torreón	
Bluefield		<b>NEW BRUNSWICK</b>		New Carlisle		XETB 1380	125
X WHIS 1410	250	Fredericton		CFNC 1210	100	Villa Acuna	
Charleston		CFNB 1030	50	Quebec		X XER- 735	150000
WOBU 580	250	Moncton		CHRC 645	100	XEF	
Fairmont		CRCA 580	500	CKCV 1310	50	<b>SASKATCHEWAN</b>	
WMMN 890	250	St. John		Canora		10-BU 1200	15
Huntington		CFBO 1030	500	Moose Jaw		CHAB 1200	400
WSAZ 1190	1000						
Wheeling							
X WWVA 1160	5000 C						

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<p><b>D. F.</b> Mexico City</p> <p>XEAD 875 250 XEAI 1090 100 XEB 1030 10000 XEFA 1250 500 XEFZ 1370 100 XEG 1075 500 XEN 990 100 XEN 711 1000 XEO 940 5000 XEP 780 500 XEQ 1330 500 XETA 1180 250 XETR 610 1000 XETW 815 500 XEW 910 5000 XEX 1210 200 XFC 638 2000 XFO 940 5000 XFX 860 500</p> <p>Toluca XEC 1000 50</p> <p><b>HIDALGO</b> Pachuca XETU 890 100</p> <p><b>JALISCO</b> Guadalajara XEA 1000 250 XED 1155 500</p> <p><b>MICHOACAN</b> Morelia XEI 1310 250</p> <p><b>NUEVO LEON</b> Monterrey XEFB 1315 100 XEFJ 1000 100 XEH 1132 250 XET 690 500</p> <p><b>PUEBLA</b> Puebla</p>	<p>XETH 860 100</p> <p><b>QUERETARO</b> Queretaro XEFS 1000 40 SAN LUIS POTOSI San Luis Potosi XEAC 1295 100</p> <p><b>TAMAULIPAS</b> Matamoros XETM 845 150000 Nuevo Laredo XEAB 1450 7.5 XEFE 1000 100 XENT 1115 150000 Reynosa XEAW 965 10000 Tampico XEFW 1280 70 XES 1020 250</p> <p><b>VERACRUZ</b> Jalapa XFB 1290 500 Veracruz XETF 630 500 XEU 1010 100</p> <p><b>YUCATAN</b> Merida XEFC 1050 100 XEY 546.8 10 XEZ 630 500</p> <p><b>WEST INDIES</b> CUBA Caibarien CMHD 950 500 Camaguey CMJG 1382 150 CMJE 1175 50 CMJF 930 200 CMJG 1050 50 CMJK 790 500 CMJL 960 50</p>	<p>CMJN 1240 50 Cardenas CMGE 1375 30 Ciego de Avila CMJH 1150 50 CMJI 1280 45 CMJO 1010 50</p> <p>Cienfuegos CMHJ 1190 60 CMHL 1290 20 Colon CMGA 834 100 Cruces CMHK 1225 50 Guantanamo CMKJ 1300 20</p> <p>Havana CMAF 680 1000 CMBC 1270 150 CMBD 965 150 CMBG 1070 225 CMBJ 1140 15 CMBK 1445 15 CMBL 1445 200 CMBN 1185 150 CMBS 780 200 CMBW 925 600 CMCZ 1010 150 CMC 840 500 CMCA 1230 150 CMCB 1070 150 CMCD 1140 500 CMCF 890 250 CMCH 1410 50 CMCJ 1185 500 CMCM 1410 15 CMCN 1375 250 CMCP 1270 150 CMCQ 780 1000 CNCR 1375 150 CMCU 630 500</p>	<p>CMCW 965 100 CMCY 1320 500 CMDE 925 150 CMK 730 3150 CMO 630 500 CMW 590 1400 CMX 890 1000</p> <p>Matanzas CMGB 1205 30 CMGC 820 30 CMGF 987 100 CMGH 1040 15</p> <p>Moron CMJP 1360 75 Pinar del Rio CMAB 1249 20 Santa Clara CMHI 1037 250 Santiago CMKC 1034 150</p> <p><b>DOMINICAN REPUBLIC</b> San Pedro de Marcoris HHH 1395 15 Santo Domingo HIJK 1180 15000 HIX 580 1500</p> <p><b>HAITI</b> Port-au-Prince HHK 920 1000</p> <p><b>SOUTH AMERICA</b> COLOMBIA Bogota HJN 690 2000 VENEZUELA Caracas YV1BC 960 5000 YV2BC 882 100 YV3BC 1200 1000</p>
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## SHORT WAVE RELAY BROADCASTING STATIONS

### *Grouped According to Network Programs Transmitted*

Frequency in megacycles in first column, wavelength in meters in second column, schedule in third column, time being EST. The location of the broadcast band station is given in parentheses following the geographical location of the short wave transmitter.

#### COLUMBIA BROADCASTING SYSTEM

W2XB-WABC, Wayne, N. J. (New York, N. Y.)	15.258 19.65 11 a.m. to 1 p.m.
	11.823 25.36 3 p.m. to 5 p.m.
	6.116 49.02 6 to 11 p.m.
W3XAU-WCAU, Byberry, Pa. (Philadelphia, Pa.)	9.585 31.28 11 a.m. to 5 p.m.
	6.057 49.50 7 p.m. to midnight

#### NATIONAL "RED" NETWORK

W1XAL-WEEL, Boston, Mass. (Boston, Mass.)	11.794 25.42 Irregular
	6.040 49.64 Irregular
W2XAD-WGY, Schenectady, N. Y. (Schenectady, N. Y.)	15.320 19.57 Sun., 2 to 4 p.m.; Mon., Wed., Fri. 2 to 3 p.m.
W2XAF-WGY, Schenectady, N. Y. (Schenectady, N. Y.)	9.530 31.46 7 to 10 p.m.
W9XAA-WCFL, Chicago, Ill. (Chicago, Ill.)	17.780 16.86 Very Irregular
	11.840 25.35 Irregular
	6.076 49.34 3 to 6 p.m.

#### NATIONAL "BLUE" NETWORK

W1XAZ-WBZ-WBZA, Millis, Mass. (Boston and Springfield, Mass.)	9.560 31.36 6 a.m. to midnight
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W3XAL-WJZ, Boundbrook, N. J. (New York, N. Y.)	17.772 16.87 12:30 to 6:30 p.m., except Sat.
	6.096 49.17 Saturday, 3 p.m. to midnight
W3XL-WJZ, Boundbrook, N. J. (New York, N. Y.)	6.421 46.69 Irregular
W8XX-KDKA, Saxonburg, Pa. (Pittsburgh, Pa.)	21.451 13.93 7 a.m. to 2 p.m.
	15.204 19.72 10 a.m. to 4:15 p.m.
	11.870 25.25 4:30 to 10 p.m.
	6.140 48.83 4:30 p.m. to 12:30 a.m.

#### NATIONAL "RED" AND "BLUE" NETWORK

VE9DR-CFCF, Montreal, Quebec (Montreal, Quebec)	6.005 49.93 Sun., noon to 11:15 p.m. Other day s. 7:30 a.m. to midnight
VE9GW-CRCT, Bowmanville, Ont. (Toronto, Ontario)	6.092 49.22 Sat., 4 p.m. to midnight; Sun., 11 a.m. to 9 p.m.; Mon. and Thurs., 8 a.m. to noon; Thurs. and Fri., 4 to 8 p.m.
W4XB-WIOD, Miami Beach, Fla. (Miami Beach, Fla.)	6.036 49.67 Irregular
W8XAL-WLW, Mason, Ohio (Cincinnati, Ohio)	6.060 49.48 Irregular
W9XF-WENR, Downer's Grove, Ill. (Chicago, Ill.)	6.100 49.15 Sat., silent; Sun. 1 to 2:30 p.m., 4:30 to 7 p.m., 9 p.m. to 2 a.m.; other days, 4:30 to 8 p.m., 9:30 p.m. to 2 a.m.

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**CFAC 690 500** Calgary, Alta.  
Calgary Herald.

**CFBO 1030 500** St. John, N. B.  
C. A. Munro, Ltd.

**CFCA 1120 100** Toronto, Ont.  
Star Printing & Publishing Co.

**CFCF 600 400** Montreal, Que.  
Canadian Marconi Co.

**CFCH 930 100** North Bay, Ont.  
Northern Supplies, Ltd.

**CFCN 1030 10000** Calgary, Alta.  
W. W. Grant & H. G. Love.

**CFCO 1210 100** Chatham, Ont.  
John Beardall.

**CFCT 1430 50** Victoria, B. C.  
Victoria Broadcasting Assn.

**CFCY 630 500** Charlottetown, P. E. I.  
Island Radio Broadcasting Co., Ltd.

**CFJG 1310 100** Kamloops, B. C.  
Review Publishing Co., Ltd.

**CFLC 930 100** Prescott, Ont.  
Radio Assn. of Prescott.

**CFNB 1030 50** Fredericton, N. B.  
James S. Neill & Sons, Ltd.

**CFPL 730 100** London, Ont.  
Free Press & Printing Co., Ltd.

**CFQC 890 500** Saskatoon, Sask.  
Electric Shop, Ltd.

**CFRB 690 10000** Toronto, Ont.  
Canadian Radio Corp., Ltd.

**CFRC 915 100** Kingston, Ont.  
Queens University.

**CHAB 1200 400** Moose Jaw, Sask.  
Moose Jaw Radio Assn.

**CHCK 1310 100** Charlottetown, P. E. I.  
J. A. Gesner.

**CHGS 1120 100** Summerside, P. E. I.  
R. T. Holman, Ltd.

**CHLP 1120 100** Montreal, Que.  
La Patrie Publishing Co., Ltd.

**CHMA 580 250** Edmonton, Alta.  
Christian and Missionary Alliance.

**CHML 890 50** Hamilton, Ont.  
Maple Leaf Radio Co., Ltd.

**CHNC 1210 100** New Carlisle, Que.  
Dr. Charles Houde.

**CHNS 1050 500** Halifax, N. S.  
Maritime Broadcasting Co., Ltd.

**CHRC 645 100** Quebec, Que.  
CHRC, Ltd.

**CHWC 1010 500** Regina, Sask.  
R. H. Williams & Sons, Ltd.

**CHWK 780 100** Chilliwack, B. C.  
Chilliwack Broadcasting Co., Ltd.

**CJCA 730 500** Edmonton, Alta.  
Edmonton Journal, Ltd.

**CJCB 880 50** Sydney, N. S.  
Nathanson's Radio Headquarters.

**CJCJ 690 500** Calgary, Alta.  
Albertan Publishing Co., Ltd.

**CJCS 780 500** Sudbury, Ont.  
George McLeod Coats.

**CJGX 630 500** Yorkton, Sask.  
Winnipeg Grain Exchange.

**CJOC 840 100** Lethbridge, Alta.  
H. R. Carson, Ltd.

**CJOR 1210 500** Vancouver, B. C.  
G. C. Chandler.

**CJRM 880 500** Moose Jaw, Sask.  
James Richardson & Sons, Ltd.

**CJRW 880 500** Winnipeg, Man.  
James Richardson & Sons, Ltd.

**CKAC 730 5000** Montreal, Que.  
LaPresse Publishing Co., Ltd.

**CKCD 1010 100** Vancouver, B. C.  
Vancouver Daily Province.

**CKGH 1210 100** Hull, Que.  
Dr. J. L. Chabot.

**CKCK 1010 500** Regina, Sask.  
Leader-Post, Ltd.

**CKCL 580 100** Toronto, Ont.  
Dominion Battery Co., Ltd.

**CKCO 1010 100** Ottawa, Ont.  
Dr. G. M. Geldert.

**CKCR 645 100** Kitchener, Ont.  
William C. Mitchell and G. Liddle.

**CKCV 1310 50** Quebec, Que.  
Vandry, Inc.

**CKFC 1410 50** Vancouver, B. C.  
Radio Service Engineers, Ltd.

**CKIC 1010 50** Wolfville, N. S.  
Acadia University.

**CKLW 540 5000** Windsor, Ont.  
Western Ontario Broadcasting Co., Ltd.

**CKMC 1210 100** Cobalt, Ont.  
R. L. MacAdam.

**CKMO 1410 100** Vancouver, B. C.  
Sprott-Shaw Radio Co.

**CKNG 1030 100** Toronto, Ont.  
Canadian National Carbon Co., Ltd.

**CKOC 1010 500** Hamilton, Ont.  
Wentworth Radio Broadcasting Co., Ltd.

**CKOV 1200 100** Kelowna, B. C.  
Okanagan Broadcasters, Ltd., Box 243.

**CKPC 930 100** Preston, Ont.  
Cyrus Dolph.

**CKPR 780 100** Fort William, Ont.  
Dougall Motor Co., Ltd.

**CKTB 1200 100** St. Catharines, Ont.  
E. T. Sandell.

**CKUA 580 500** Edmonton, Alta.  
University of Alberta.

**CKWX 730 100** Vancouver, B. C.  
Western Broadcasting Co., Ltd.

**CKX 930 500** Brandon, Man.  
Manitoba Telephone System.

**CKY 910 5000** Winnipeg, Man.  
Manitoba Telephone System.

**CMAB 1249 20** Pinar del Rio, Cuba.  
Jose Silveira, Marti No. 101.

**CMAF 680 1000** Havana, Cuba.  
International Broadcasting Co., Miramar.

**CMBC 1270 150** Havana, Cuba.  
Domingo Fernandez, Maximo Gomez No. 139.

**CMBD 965 150** Havana, Cuba.  
Luis Perez Garcia, Enamorados y Flores.

**CMBG 1070 225** Havana, Cuba.  
John L. Stowers, Hospital No. 100.

**CMBJ 1140 150** Havana, Cuba.  
Emilio Perera, Consulado y Virtudes.

**CMBK 1445 15** Havana, Cuba.  
Alberto Alvarez, Paula y Oficios.

**CMBL 1445 200** Havana, Cuba.  
Julio C. Hidalgo, Vedado.

**CMBN 1185 150** Havana, Cuba.  
G. de Sequeira, Agrimonte No. 32.

**CMBS 780 200** Havana, Cuba.  
Enrique Artalejo, Calzada y H. St.

**CMBW 925 600** Havana, Cuba.  
Alvarez, Moris y Cia, Obrapia No. 13.

**CMBY 1230 250** Havana, Cuba.  
Callejas-Estefani, Principe No. 33.

**CMBZ 1010 150** Havana, Cuba.  
Manuel y G. Salas, San Rafael No. 14.

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	<b>CMC 840 500 Havana, Cuba.</b> Radio Corp. de Cuba.				<b>CMJO 1010 50 Ciego de Avila, Cuba.</b> Jose M. Rey, C. Central & Maceo.
	<b>CMCA 1230 150 Havana, Cuba.</b> Manuel Cruz, Ave. de Italia No. 102.				<b>CMJP 1380 75 Moron, Cuba.</b> Cesar Canall, Callejas No. 28.
	<b>CMCB 1070 150 Havana, Cuba.</b> Metropolitan-Radio de Cuba.				<b>CMK 730 3150 Havana, Cuba.</b> National Broadcasting Co. of Cuba.
	<b>CMCD 1140 500 Havana, Cuba.</b> Angel Bertematy.				<b>CMKC 1034 150 Santiago, Cuba.</b> Pinol Batlle y Co.
	<b>CMCF 890 250 Havana, Cuba.</b> Raoul Karman.				<b>CMKJ 1300 20 Guantanamo, Cuba.</b> Luis Morlote, East Giro 11.
	<b>CMCH 1410 50 Havana, Cuba.</b> Wifredo y Humberto Fontanals Sanchez.				<b>CMQ 630 500 Havana, Cuba.</b> Jose Fernandez, 25 Numero 445.
	<b>CMCJ 1185 500 Havana, Cuba.</b> Rafael Rodriguez, Estevez No. 4.				<b>CMW 590 1400 Havana, Cuba.</b> Troncoso y Gil, Paseo de Marti 103.
	<b>CMCM 1410 15 Havana, Cuba.</b> Aurelio Balino, Belas Coain No. 639.				<b>CMX 890 1000 Havana, Cuba.</b> Casa "Lavin," Ave. de la Republica 99A.
	<b>CMCN 1375 250 Havana, Cuba.</b> Antonio Ginard, Reina y Ave. Buen Retiroe				<b>CRCA 580 500 Moncton, N. B.</b> Canadian Radio Broadcasting Commission.
	<b>CMCP 1270 150 Havana, Cuba.</b> Jose A. Yaniz				<b>CRCO 880 500 Ottawa, Ont.</b> Canadian Radio Broadcasting Commission.
	<b>CMCQ 780 1000 Havana, Cuba.</b> Andres Martinez, Vista Alegre No. 80.				<b>CRCS 1500 100 Chicoutimi, Que.</b> Canadian Radio Broadcasting Commission.
	<b>CMCR 1375 150 Havana, Cuba.</b> Aurelio Hernandez.				<b>CRCT 960 5000 Toronto, Ont.</b> Canadian Radio Broadcasting Commission.
	<b>CMCU 630 500 Havana, Cuba.</b> Jorge Garcia Serra.				<b>CRGV 1100 500 Vancouver, B. C.</b> Canadian Radio Broadcasting Commission.
	<b>CMCW 965 100 Havana, Cuba.</b> Vilarino y Cervantes.				<b>HHK 920 1000 Port-au-Prince, Haiti.</b> Haitian Government.
	<b>CMCY 1320 500 Havana, Cuba.</b> Manuel D. Autran, Ave. de La Pdt s.215.				<b>HIH 1395 15 San Pedro de M., D. R.</b>
	<b>CMDE 925 150 Havana, Cuba.</b> Radio Aerial Ad.				<b>HIJK 1180 15000 Santo Domingo, D. R.</b>
	<b>CMGA 834 100 Colon, Cuba.</b> L. Valdes Figueroa, Marti No. 19.				<b>HIX 580 1500 Santo Domingo, D. R.</b> J. R. Saladin, Director General
	<b>CMGB 1205 30 Matanzas, Cuba.</b> Jose Anorga, Magdalena No. 1.				<b>HJN 690 1000 Bogota, Colombia</b> Government of Colombia, National Library.
	<b>CMGC 820 30 Matanzas, Cuba.</b> Oscar S. Mechoso, Independencia No. 56.				<b>HRB 1370 2300 Tegucigalpa, Hond.</b>
	<b>CMGE 1375 30 Cardenas, Cuba.</b> Genaro Sebater, Cespedes No. 180.				<b>JRL 1350 7.5 San Pedro Sula, Hond.</b>
	<b>CMGF 987 100 Matanzas, Cuba.</b> Bernabe R. de la Torre.				<b>KABC 1420 100 San Antonio, Texas.</b> Alamo Broadcasting Co., Inc.
	<b>CMGH 1040 15 Matanzas, Cuba.</b> Octavio y Julio Alvarez.				<b>KALE 1300 500 Portland, Ore.</b> Kale, Inc., New Heathman Hotel
	<b>CMHD 950 500 Caibarien, Cuba.</b> Manuel Alvarez, M. Escobar 17.				<b>KARK 890 250 Little Rock, Ark.</b> Arkansas Radio & Equipment Co.
	<b>CMHI 1037 250 Santa Clara, Cuba.</b> Lavis y Paz.				<b>KASA 1210 100 Elk City, Okla.</b> E. M. Woody, Casa Grande Hotel.
	<b>CMHJ 1190 60 Cienfuegos, Cuba.</b> Victorino Lopez Hontanon.				<b>KBPS 1420 100 Portland, Ore.</b> Benson Polytechnic School
	<b>CMHK 1225 50 Cruces, Cuba.</b> Virgilio Villaneuva Fernandez.				<b>KBTM 1200 100 Paragould, Ark.</b> Jay P. Beard.
	<b>CMHL 1290 20 Cienfuegos, Cuba.</b> Oscar Zayas, San Carlos 143.				<b>KCMC 1420 100 Texarkana, Ark.</b> M. P. Mims, Box 865.
	<b>CMJC 1382 150 Camaguey, Cuba.</b> Feliciano Isaa, Cisneros y G. Gomez.				<b>KCRC 1370 100 Enid, Okla.</b> Enid Radiophone Co.
	<b>CMJE 1175 50 Camaguey, Cuba.</b> Manuel Fernandez, Plaza de Maceo.				<b>KCRJ 1310 100 Jerome, Ariz.</b> Chas. C. Robinson, Drawer D.
	<b>CMJF 930 200 Camaguey, Cuba.</b> John L. Stowers, Hotel Plaza.				<b>KDB 1500 100 Santa Barbara, Calif.</b> Santa Barbara Broadcasters, Ltd.
	<b>CMJG 1050 50 Camaguey, Cuba.</b> Jose Antonio Lefran, Martires 133.				<b>KDFN 1440 500 Casper, Wyo.</b> Donald Lewis Hathaway.
	<b>CMJH 1150 50 Ciego de Avila, Cuba.</b> Luis Marauri Mendosa.				<b>KDKA 980 50000 Pittsburgh, Pa.</b> Westinghouse Electric & Mfg. Co.
	<b>CMJI 1280 45 Ciego de Avila, Cuba.</b> Gilberto Gessa Lopez, Independencia 95.				<b>KDLR 1210 100 Devils Lake, N. D.</b> KDLR, Inc., 1025 3rd Street.
	<b>CMJK 790 500 Camaguey, Cuba.</b> Compania Cubana Nacional de Radio S. A.				<b>KDYL 1290 1000 Salt Lake City, Utah.</b> Intermountain Broadcasting Corp.
	<b>CMJL 960 50 Camaguey, Cuba.</b> Enrique Arttime, Cuba No. 27.				<b>KECA 1430 1000 Los Angeles, Calif.</b> Earle C. Anthony, Inc.
	<b>CMJN 1240 50 Camaguey, Cuba.</b> Ernesto de Ugarriza, Martires 11.				<b>KELW 780 500 Burbank, Calif.</b> Magnolia Park, Ltd., 3702 Magnolia

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<b>KERN 1200 100</b> Bakersfield, Calif. Bee Bakersfield Broadcasting Co.	<b>KFSG 1120 500</b> Los Angeles, Calif. Echo Park Evangelistic Assn.
<b>KEX 1180 5000</b> Portland, Ore. National Broadcasting Co.	<b>KFUO 550 500</b> St. Louis, Mo. Evangelical Lutheran Church.
<b>KFAB 770 5000</b> Lincoln, Neb. KFAB Broadcasting Co.	<b>KFVD 1000 250</b> Los Angeles, Calif. E. L. Cord, 645 S. Mariposa.
<b>KFAC 1300 1000</b> Los Angeles, Calif. E. L. Cord, 645 So. Mariposa.	<b>KFVS 1210 100</b> Cape Girardeau, Mo. Oscar C. Hirsch, Box 275.
<b>KFBB 1280 1000</b> Great Falls, Mont. Buttrey Broadcast, Inc.	<b>KFWB 950 1000</b> Hollywood, Calif. Warner Bros. Motion Pictures, Inc.
<b>KFBI 1050 5000</b> Abilene, Kans. Farmers & Bankers Life Ins. Co.	<b>KFWF 1200 100</b> St. Louis, Mo. St. Louis Truth Center, Inc.
<b>KFBK 1310 100</b> Sacramento, Calif. James McClatchy Publishing Co.	<b>KFWI 930 500</b> San Francisco, Calif. Radio Entertainments, Ltd.
<b>KFBL 1370 50</b> Everett, Wash. Leese Bros., 2814 Rucker Ave.	<b>KFXD 1200 100</b> Nampa, Idaho. Frank E. Hurt, 1024 12th Ave., S.
<b>KFDM 560 500</b> Beaumont, Texas. Sabine Broadcasting Co.	<b>KFXF 920 500</b> Denver, Colo. Colorado Radio Corp.
<b>KFDY 550 500</b> Brookings, S. D. South Dakota State College.	<b>KFXJ 1200 100</b> Grand Jct., Colo. Western Slope Broadcasting Co.
<b>KFEL 920 500</b> Denver, Colo. Eugene P. O'Fallon, Inc.	<b>KFXM 1210 100</b> San Bernardino, Calif. Lee Bros. Broadcasting Co.
<b>KFEQ 680 2500</b> St. Joseph, Mo. Serogin & Co. Bank	<b>KFXR 1310 100</b> Oklahoma City, Okla. Exchange Avenue Baptist Church.
<b>KFGQ 1310 100</b> Boone, Iowa. Boone Biblical College.	<b>KFYO 1310 100</b> Lubbock, Texas. Kirksey Bros., Hotel Lubbock.
<b>KFH 1300 1000</b> Wichita, Kans. Radio Station KFH Co.	<b>KFYR 550 1000</b> Bismarck, N. D. Mayer Broadcasting Co.
<b>KFI 640 50000</b> Los Angeles, Calif. Earle C. Anthony, Inc.	<b>KGA 1470 5000</b> Spokane, Wash. Northwest Broadcasting Co., Inc.
<b>KFIO 1120 100</b> Spokane, Wash. Spokane Broadcasting Corp.	<b>KGAR 1370 100</b> Tucson, Ariz. Tucson Motor Service Co.
<b>KFIZ 1420 100</b> Fond du Lac, Wis. Reporter Printing Co.	<b>KGB 1330 1000</b> San Diego, Calif. Don Lee, Inc., 1012 First St.
<b>KFJB 1200 100</b> Marshalltown, Iowa. Marshall Electric Co.	<b>KGBU 900 500</b> Ketchikan, Alaska. Alaska Radio & Service Co., Inc.
<b>KFJI 1210 100</b> Klamath Falls, Ore. KFJI Broadcasters, Inc., Willard Hotel.	<b>KGBX 1310 100</b> Springfield, Mo. KGBX, Inc.
<b>KFJM 1370 100</b> Grand Forks, N. D. University of North Dakota.	<b>KGBZ 930 500</b> York, Neb. Dr. Geo. R. Miller, 715 Grant Ave.
<b>KFJR 1300 500</b> Portland, Ore. Ashley C. Dixon-KFJR, Inc.	<b>KGCA 1270 100</b> Decorah, Iowa Charles W. Greenley
<b>KFJZ 1370 100</b> Fort Worth, Texas. Fort Worth Broadcasters, Inc.	<b>KGCR 1210 100</b> Watertown, S. D. Greater Kampska Radio Corp.
<b>KFKA 880 500</b> Greeley, Colo. Mid-Western Radio Corp.	<b>KGCU 1240 250</b> Mandan, N. D. Mandan Radio Assn.
<b>KFKU 1220 500</b> Lawrence, Kans. University of Kansas.	<b>KGCX 1310 100</b> Wolf Point, Mont. E. E. Krebsbach.
<b>KFLV 1410 500</b> Rockford, Ill. Rockford Broadcasters, Inc.	<b>KGDE 1200 100</b> Fergus Falls, Minn. C. L. Jaren.
<b>KFNF 890 500</b> Shenandoah, Iowa. Henry Field Co.	<b>KGDM 1100 250</b> Stockton, Calif. E. F. Peffer, 42 S. Calif. St.
<b>KFOR 1210 100</b> Lincoln, Neb. Cornbelt Broadcasting Corp.	<b>KGDY 1340 250</b> Huron, S. D. Voice of S. D., Inc., 347 Dakota Ave.
<b>KFOX 1250 1000</b> Long Beach, Calif. Nicholas & Warinner, Inc.	<b>KGEK 1200 100</b> Yuma, Colo. Elmer G. Beehler, 109 W. 2nd St.
<b>KFPL 1310 100</b> Dublin, Texas. C. C. Baxter, Box 176	<b>KGER 1360 1000</b> Long Beach, Calif. Consolidated Broadcasting Co.
<b>KFPM 1310 15</b> Greenville, Texas. New Furniture Co.	<b>KGEZ 1310 100</b> Kalispell, Mont. Donald C. Treloar, Box 1.
<b>KFPW 1210 100</b> Fort Smith, Ark. Southwestern Hotel Co.	<b>KGFF 1420 100</b> Shawnee, Okla. KGFF Broadcasting Co., Inc.
<b>KFPY 1340 1000</b> Spokane, Wash. Symons Broadcasting Co.	<b>KGFG 1370 100</b> Oklahoma City, Okla. Oklahoma Broadcasting Co., 1113 N. Broadway.
<b>KFQD 600 250</b> Anchorage, Alaska Anchorage Radio Club, Inc.	<b>KGFI 1500 100</b> Corpus Christi, Texas. Eagle Broadcasting Co., Inc.
<b>KFRC 610 1000</b> San Francisco, Calif. Don Lee, Inc.	<b>KGFJ 1200 100</b> Los Angeles, Calif. Ben S. McGlashan, 1417 S. Figueroa.
<b>KFRU 630 500</b> Columbia, Mo. KFRU, Inc., 9th and Elm Sts.	<b>KGFK 1500 100</b> Moorhead, Minn. Red River Broadcasting Co., Inc.
<b>KFSD 600 1000</b> San Diego, Calif. Airtan Radio Corp., Ltd.	<b>KGFL 1370 100</b> Roswell, N. M. KGFL, Inc., 507 N. Main St.

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**KGFV 1310 100 Kearney, Neb.**  
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**KGFX 630 200 Pierre, S. D.**  
Dana McNeil, 510 Summit Ave.

**KGGC 1420 100 San Francisco, Calif.**  
Golden Gate Broadcasting Co.

**KGGF 1010 500 Coffeyville, Kans.**  
Hugh J. Powell and Stanley Platz.

**KGGM 1230 250 Albuquerque, N. M.**  
New Mexico Broadcasting Co.

**KGHF 1320 250 Pueblo, Colo.**  
C. P. Ritchie & Geo. J. Ikelman

**KGHI 1200 100 Little Rock, Ark.**  
Lloyd Judd Co., Marion Hotel.

**KGHL 950 1000 Billings, Mont.**  
Northwestern Auto Supply Co.

**KGIR 1360 500 Butte, Mont.**  
KGIR, Inc., 121 W. Broadway.

**KGIW 1420 100 Trinidad, Colo.**  
Leonard E. Wilson, 326 N. Commercial

**KGIX 1420 100 Las Vegas, Nev.**  
J. M. Heaton, Box 656.

**KGIZ 560 500 Springfield, Mo.**  
Grant City Park Corp.

**KGKB 1500 100 Tyler, Texas.**  
East Texas Broadcasting Co.

**KGKL 1370 100 San Angelo, Texas.**  
KGKL, Inc., St. Angelus Hotel.

**KGKO 570 250 Wichita Falls, Texas.**  
Wichita Falls Broadcasting Co.

**KGKY 1500 100 Scottsbluff, Neb.**  
Hilliard Co., Inc., 1517½ Broadway.

**KGMB 1320 250 Honolulu, T. H.**  
Honolulu Broadcasting Co., 119 Merchant St.

**KGNF 1430 500 North Platte, Neb.**  
Great Plains Broadcasting Co.

**KGNO 1340 250 Dodge City, Kans.**  
KGNO Broadcasting Station

**KGO 790 7500 San Francisco, Calif.**  
National Broadcasting Co., Inc.

**KGRS 1410 1000 Amarillo, Texas.**  
E. B. Gish, Bellaire Park.

**KGU 750 2500 Honolulu, T. H.**  
Advertiser Publishing Co., Ltd.

**KGVO 1200 100 Missoula, Mont.**  
Mosby, Inc., 240 N. Higgins.

**KGW 820 1000 Portland, Ore.**  
Oregonian Publishing Co.

**KGY 1210 100 Olympia, Wash.**  
KGY, Inc., 11th and Capitol Way.

**KHJ 900 1000 Los Angeles, Calif.**  
Don Lee Broadcasting System.

**KHQ 590 1000 Spokane, Wash.**  
Lottie Wasmer, Inc.

**KICA 1370 100 Clovis, N. M.**  
Southwest Broadcasting Co.

**KICK 1420 100 Carter Lake, Iowa.**  
Red Oak Radio Corp.

**KID 1320 250 Idaho Falls, Idaho.**  
KID Broadcasting Co., Inc.

**KIDO 1350 1000 Boise, Idaho.**  
C. G. Phillips & Frank L. Hill.

**KIDW 1420 100 Lamar, Colo.**  
Lamar Broadcasting Co., Box 688

**KIEM 1210 100 Eureka, Calif.**  
Harold H. Hanseth, Vance Hotel.

**KIEV 850 100 Glendale, Calif.**  
Cannon System, Ltd., Glendale Hotel.

**KIFH 1310 100 Juneau, Alaska**  
Juneau Broadcasting Co.

**KIGY 1200 100 Lowell, Ariz.**  
Copper Electric Co., Inc.

**KIT 1310 100 Yakima, Wash.**  
Valley Broadcasters, Inc.

**KJBS 1070 100 San Francisco, Calif.**  
Julius Brunton & Sons Co.

**KJR 870 5000 Seattle, Wash.**  
Fishers Blend Station, Inc.

**KLCN 1290 100 Blytheville, Ark.**  
C. L. Lintzenich, Main and Division St.

**KLO 1400 500 Ogden, Utah.**  
Interstate Broadcasting Co.

**KLPM 1240 250 Minot, N. D.**  
John B. Cooley.

**KLRA 1390 1000 Little Rock, Ark.**  
Arkansas Broadcasting Co.

**KLS 1440 250 Oakland, Calif.**  
Warner Bros., 2201 Telegraph Ave.

**KLUF 1370 100 Galveston, Texas.**  
Geo. R. Clough, 3327 Ave. P.

**KLX 880 1000 Oakland, Calif.**  
Tribune Publishing Co.

**KLZ 560 1000 Denver, Colo.**  
Reynolds Radio Co., Inc.

**KMA 930 500 Shenandoah, Iowa.**  
Earl E. May Seed & Nursery Co.

**KMAC 1370 100 San Antonio, Texas.**  
W. W. McAllister, Blue Bonnet Hotel.

**KMBC 950 1000 Kansas City, Mo.**  
Midland Broadcasting Co.

**KMED 1310 100 Medford, Ore.**  
Mrs. W. J. Virgin, Sparta Bldg.

**KMJ 580 500 Fresno, Calif.**  
James McClatchy Co.

**KMLB 1200 100 Monroe, La.**  
Liners Broadcasting Station, Inc.

**KMMJ 740 1000 Clay Center, Neb.**  
The M. M. Johnson Co.

**KMO 1330 250 Tacoma, Wash.**  
KMO, Inc., Hotel Winthrop.

**KMOX 1090 50000 St. Louis, Mo.**  
The Voice of St. Louis, Inc.

**KMPC 710 500 Beverly Hills, Calif.**  
Beverly Hills Broadcasting Corp.

**KMTR 570 500 Hollywood, Calif.**  
KMTR Radio Corp., 915 N. Formosa Ave.

**KNOW 1500 100 Austin, Texas.**  
Southwest Broadcasting Co.

**KNX 1050 25000 Hollywood, Calif.**  
Western Broadcast Co., Inc.

**KOA 830 12,500 Denver, Colo.**  
General Electric Co., 1370 Krameria St.

**KOAC 550 1000 Corvallis, Ore.**  
Oregon State Agricultural College.

**KOB 1180 10000 Albuquerque, N. M.**  
Albuquerque Journal, Box 667.

**KOCW 1400 250 Tulsa, Okla.**  
J. T. Griffin.

**KOH 1380 500 Reno, Nev.**  
The Bee, Inc.

**KOIL 1260 1000 Council Bluffs, Iowa.**  
Mona Motor Oil Co.

**KOIN 940 1000 Portland, Ore.**  
KOIN, Inc., New Heathman Hotel.

**KOL 1270 1000 Seattle, Wash.**  
Seattle Broadcasting Co.

**KOMA 1480 5000 Oklahoma City, Okla.**  
National Radio Manufacturing Co.

**KOMO 920 1000 Seattle, Wash.**  
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**KONO 1370 100 San Antonio, Texas.**  
Mision Broadcasting Co., St. Anthony Hotel.

**KOOS 1370 100 Marshfield, Ore.**  
H. H. Hanseth, Hall Bldg.

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	<b>KOY 1390 500 Phoenix, Ariz.</b> Nielsen Radio & Sporting Goods Co.		<b>KTW 1220 1000 Seattle, Wash.</b> First Presbyterian Church.
	<b>KPCB 650 100 Seattle, Wash.</b> Queen City Broadcasting Co.		<b>KUJ 1370 100 Walla Walla, Wash.</b> KUJ, Inc., Marcus Whitman Hotel.
	<b>KPJM 1500 100 Prescott, Ariz.</b> Frank Mauthe, Box 852		<b>KUMA 1420 100 Yuma, Ariz.</b> Dr. A. H. Schermann, Box 267.
	<b>KPO 880 50000 San Francisco, Calif.</b> National Broadcasting Co., Inc.		<b>KUOA 1260 1000 Fayetteville, Ark.</b> KUOA, Inc., Washington Hotel.
	<b>KPOF 880 500 Denver, Colo.</b> Pillar Of Fire, 1845 Champa St.		<b>KUSD 890 500 Vermillion, S. D.</b> University of South Dakota.
	<b>KPPC 1210 50 Pasadena, Calif.</b> Pasadena Presbyterian Church.		<b>KVI 570 500 Tacoma, Wash.</b> Puget Sound Broadcasting Co., Tacoma Hotel.
	<b>KPQ 1500 100 Wenatchee, Wash.</b> Wescoast Broadcasting Co.		<b>KVL 1370 100 Seattle, Wash.</b> KVL, Inc., 5th and Virginia St.
	<b>KPRC 920 1000 Houston, Texas.</b> Houston Printing Co.		<b>KVOA 1260 500 Tucson, Ariz.</b> Robt. M. Rieulfi, Consolidated Bank Bldg.
	<b>KQV 1380 500 Pittsburgh, Pa.</b> KQV Broadcasting Co., Investment Bldg.		<b>KVOO 1140 5000 Tulsa, Okla.</b> Southwestern Sales Corp.
	<b>KQW 1010 500 San Jose, Calif.</b> Pacific Agricultural Foundation, Ltd.		<b>KVOR 1270 1000 Colorado Springs, Colo.</b> Reynolds Radio Co., Inc.
	<b>KRE 1370 100 Berkeley, Calif.</b> First Congregational Church.		<b>KVOS 1200 100 Bellingham, Wash.</b> KVOS, Inc., Bellingham Hotel.
	<b>KREG 1500 100 Santa Ana, Calif.</b> The Voice of the Orange Empire, Inc.		<b>KWCR 1420 100 Cedar Rapids, Iowa.</b> Cedar Rapids Broadcast Co.
	<b>KRGV 1260 600 Harlingen, Texas.</b> KRGV, Inc.		<b>KWEA 1210 100 Shreveport, La.</b> Hello World Broadcasting Corp.
	<b>KRKD 1120 500 Los Angeles, Calif.</b> Freside Broadcasting Corp.		<b>KWFW 1210 100 Hilo, Hawaii</b> Hilo Broadcasting Co., Ltd.
	<b>KRLD 1040 10000 Dallas, Texas.</b> KRLD Radio Corp., Adolphus Hotel.		<b>KWG 1200 100 Stockton, Calif.</b> McClatchy Newspapers, Inc.
	<b>KRMD 1310 100 Shreveport, La.</b> Radio Station KRMD, Inc.		<b>KWJJ 1080 500 Portland, Ore.</b> KWJJ Broadcast Co., Inc., 328 Salmon St.
	<b>KROW 930 500 Oakland, Calif.</b> Educational Broadcasting Corp.		<b>KWK 1350 1000 St. Louis, Mo.</b> Thomas Patriek, Inc., Hotel Chase.
	<b>KRSB 1120 100 Seattle, Wash.</b> Radio Sales Corp., Washington Athletic Club.		<b>KWKC 1370 100 Kansas City, Mo.</b> Wilson Duncan Broadcasting Co.
	<b>KSAC 580 500 Manhattan, Kans.</b> State College of Agriculture.		<b>KWKH 850 10000 Shreveport, La.</b> Hello World Broadcasting Corp.
	<b>KSCJ 1330 1000 Sioux City, Iowa.</b> Perkins Bros. Co., 415 Douglas St.		<b>KWLC 1270 100 Decorah, Iowa.</b> Luther College.
	<b>KSD 550 500 St. Louis, Mo.</b> Pulitzer Publishing Co.		<b>KW9C 1220 1000 Pullman, Wash.</b> State College of Washington.
	<b>KSEI 890 250 Pocatello, Idaho.</b> Radio Service Corp., 141 S. 6th Ave.		<b>KWWG 1260 500 Brownsville, Texas.</b> Frank P. Jackson.
	<b>KSL 1130 50000 Salt Lake City, Utah.</b> Radio Service Corp. of Utah.		<b>KXA 780 250 Seattle, Wash.</b> American Radio Tel. Co., 218 Bigelow Bldg.
	<b>KSO 1370 100 Des Moines, Iowa.</b> Des Moines Register & Tribune.		<b>KXL 1420 100 Portland, Ore.</b> KXL Broadcasters, 269 Fine St.
	<b>KSOO 1110 1000 Sioux Falls, S. D.</b> Jos. Henkin, 1613 S. Duluth Ave.		<b>KXO 1500 100 El Centro, Calif.</b> E. R. Irey and F. M. Bowles.
	<b>KSTP 1480 25000 St. Paul, Minn.</b> National Battery Broadcasting 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 620 500 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> Brlanger and Galinger, Inc.
	<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> Piekwick 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>TIC 882 15 San Jose, C. R.</b>
	<b>KTSA 1290 1000 San Antonio, Texas.</b> Southwest Broadcasting Co.		<b>TICR 1180 30 San Jose, C. R.</b> Government of Costa Ri a.

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<b>TIEA</b> 833 7.5 San Jose, C. R.	<b>WBAA</b> 1400 500 West Lafayette, Ind. Purdue University.
<b>TIEP</b> 1450 7.5 San Jose, C. R.	<b>WBAK</b> 1430 1000 Harrisburg, Pa. Commonwealth of Pennsylvania.
<b>TIFB</b> 714 30 San Jose, C. R.	<b>WBAL</b> 1060 10000 Baltimore, Md. Consolidated Gas, Elec. Light & Power Co.
<b>TIFS</b> 1441 7.5 Cartago, C. R.	<b>WBAP</b> 800 50000 Fort Worth, Texas. Carter Publications, Inc.
<b>TIGA</b> 1014 30 Cartago, C. R.	<b>WBAX</b> 1210 100 Wilkes-Barre, Pa. John H. Stenger, Jr., 70 S. Main St.
<b>TIGP</b> 666 75 San Jose, C. R.	<b>WBBC</b> 1400 500 Brooklyn, N. Y. Brooklyn Broadcasting Corp.
<b>TIRCA</b> 1100 500 San Jose, C. R. Perry Grton, Apt. 225.	<b>WBBL</b> 1210 100 Richmond, Va. Grace Covenant Presbyterian Church.
<b>TISO</b> 600 50 San Jose, C. R.	<b>WBBS</b> 770 25000 Chicago, Ill. WBBM Broadcasting Corp., Wrigley Bldg.
<b>TITV</b> 999 7.5 San Jose, C. R.	<b>WBBR</b> 1300 1000 Brooklyn, N. Y. Peoples Pulpit Assn.
<b>TIVL</b> 860 30 San Jose, C. R.	<b>WBBX</b> 1200 100 New Orleans, La. Samuel D. Reeks, Marberc Hotel.
<b>TIXA</b> 614 7.5 San Jose, C. R.	<b>WBBZ</b> 1200 100 Ponca City, Okla. C. L. Carrell.
<b>VAS</b> 685 2000 Glace Bay, N. S. Canadian Marconi Co., Ltd.	<b>WBCM</b> 1410 500 Bay City, Mich. James E. Davidson, Hotel Wenonah.
<b>VOAS</b> 810 100 St. John's, N. F. Ayre & Sons, Ltd.	<b>WBEN</b> 900 1000 Buffalo, N. Y. WBEN, Inc. (Buffalo Evening News.)
<b>VOGY</b> 890 100 St. John's, N. F. Newfoundland Broadcasting Co.	<b>WBEO</b> 1310 100 Marquette, Mich. Lake Superior Broadcasting Co., Inc.
<b>VOKW</b> 1300 30 St. John's, N. F. Cyril L. Parkins.	<b>WBHS</b> 1200 100 Huntsville, Ala. Radio Station WBHS, Inc.
<b>VONF</b> 1195 400 St. John's, N. F. Dominion Broadcasting Co., Ltd., Box 1355.	<b>WBIG</b> 1440 500 Greensboro, N. C. North Carolina Broadcasting Co., Inc.
<b>VOWR</b> 750 500 St. John's, N. F. Wesley United Church, Box 157.	<b>WBXN</b> 1350 250 New York, N. Y. New York Metropolitan Broadcasting Corp.
<b>WAAB</b> 1410 500 Boston, Mass. Bay State Broadcasting Corp., 1 Winter Pl.	<b>WBOQ</b> 860 50000 New York, N. Y. Atlantic Broadcasting Corp.
<b>WAAF</b> 920 500 Chicago, Ill. Chicago Daily Drivers Journal.	<b>WBOW</b> 1310 100 Terre Haute, Ind. Banks of Wabash, Inc., 24½ S. 6th.
<b>WAAM</b> 1250 1000 Newark, N. J. WODAM Corp., 1060 Broad St.	<b>WBRC</b> 930 500 Birmingham, Ala. Birmingham Broadcasting Co., Inc.
<b>WAAT</b> 940 300 Jersey City, N. J. Bremer Broadcasting Corp., 50 Journal Sq.	<b>WBRE</b> 1310 100 Wilkes-Barre, Pa. Louis G. Baltimore, 16 N. Main.
<b>WAAW</b> 660 500 Omaha, Neb. Omaha Grain Exchange.	<b>WBSO</b> 920 500 Babson Park, Mass. Broadcasting Service Organization, Inc.
<b>WABC</b> 860 50000 New York, N. Y. Atlantic Broadcasting Corp.	<b>WBT</b> 1080 25000 Charlotte, N. C. Station WBT, Inc., Wilder Bldg.
<b>WABI</b> 1200 100 Bangor, Maine. First Universalist Society.	<b>WBTM</b> 1370 100 Danville, Va. Piedmont Broadcasting Corp.
<b>WACO</b> 1420 100 Waco, Texas. Southwest Broadcasting Co.	<b>WBZ</b> 990 25000 Boston, Mass. Westinghouse Elec. & Mfg. Co.
<b>WADC</b> 1320 1000 Akron, Ohio. Allen T. Simmons, P. O. Box 29.	<b>WBZA</b> 990 1000 Springfield, Conn. Westinghouse Elec. & Mfg. Co.
<b>WAGM</b> 1420 100 Presque Isle, Me. Aroostook Broadcasting Corp.	<b>WCAC</b> 600 250 Storrs, Conn. Connecticut Agricultural College.
<b>WAIU</b> 640 500 Columbus, Ohio. Associated Radiocasting Corp.	<b>WCAD</b> 1220 500 Canton, N. Y. St. Lawrence University.
<b>WALR</b> 1210 100 Zanesville, Ohio. WALR Broadcasting Corp.	<b>WCAE</b> 1220 1000 Pittsburgh, Pa. WCAE, Inc., Sun-Telegraph.
<b>WAMC</b> 1420 100 Anniston, Ala. R. C. Hammett, 1200 Noble St.	<b>WCAH</b> 1430 500 Columbus, Ohio. International Bible Students Assn.
<b>WAML</b> 1310 100 Laurel, Miss. Southland Radio Corp.	<b>WCAL</b> 1250 1000 Northfield, Minn. St. Olaf College.
<b>WAPI</b> 1140 5000 Birmingham, Ala. WAPI Broadcasting Corp.	<b>WCAM</b> 1280 500 Camden, N. J. City of Camden, City Hall.
<b>WARD</b> 1400 500 Brooklyn, N. Y. United States Broadcasting Corp.	<b>WCAO</b> 600 250 Baltimore, Md. Monumental Radio Co.
<b>WASH</b> 1270 500 Grand Rapids, Mich. Kunsky-Trendle Broadcasting Corp.	<b>WCAP</b> 1280 500 Asbury Park, N. J. Radio Industries Broadcast Co.
<b>WAWZ</b> 1350 250 Zarephath, N. J. Pillar of Fire.	<b>WCAT</b> 1200 100 Rapid City, S. D. South Dakota State School of Mines.
<b>WAZL</b> 1420 100 Hazleton, Pa. Hazleton Broadcasting Service, Inc.	<b>WACU</b> 1170 50000 Philadelphia, Pa. WACU Broadcasting Co., 1622 Chestnut.



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**WCAX 1200 100 Burlington, Vt.**  
Burlington Daily News, Inc.

**WCAZ 1070 50 Carthage, Ill.**  
Superior Broadcasting Service, Inc.

**WCBA 1440 250 Allentown, Pa.**  
B. Bryan Musselman, 39-41 10th St.

**WCBD 1080 5000 Zion, Ill.**  
Wilbur Glenn Voliva.

**WCBM 1370 100 Baltimore, Md.**  
Baltimore Broadcasting Corp.

**WCBS 1210 100 Springfield, Ill.**  
WCBS, Inc., 208½ S. 5th.

**WCCO 810 50000 Minneapolis, Minn.**  
Northwestern Broadcasting, Inc.

**WCDA 1350 250 New York, N. Y.**  
Italian Educational Broadcasting Co.

**WCFL 970 1500 Chicago, Ill.**  
Chicago Federation of Labor.

**WCKY 1490 5000 Covington, Ky.**  
L. B. Wilson, Inc.

**WCLO 1200 100 Janesville, Wis.**  
WCLO Radio Corp.

**WCLS 1310 100 Joliet, Ill.**  
WCLS, Inc., 301 E. Jefferson St.

**WCOA 1340 500 Pensacola, Fla.**  
Pensacola Broadcasting Co.

**WCOC 880 500 Meridian, Miss.**  
Mississippi Broadcasting Co., Inc.

**WCOD 1200 100 Harrisburg, Pa.**  
Keystone Broadcasting Corp.

**WCRW 1210 100 Chicago, Ill.**  
Clinton R. White, 2756 Pine Grove Ave.

**WCSC 1360 500 Charleston, S. C.**  
South Carolina Broadcasting Co., Inc.

**WCSH 940 1000 Portland, Me.**  
Congress Square Hotel Co., 157 High.

**WDAE 1220 1000 Tampa, Fla.**  
Tampa Publishing Co., Tampa Terrace.

**WDAF 610 1000 Kansas City, Mo.**  
Kansas City Star Co.

**WDAG 1410 1000 Amarillo, Texas.**  
National Radio & Broadcasting Corp.

**WDAH 1310 100 El Paso, Texas.**  
Tri-State Broadcasting Co., Inc.

**WDAS 1370 100 Philadelphia, Pa.**  
WDAS Broadcastg. Co., Inc., Broadwood Hotel.

**WDAY 940 1000 Fargo, N. D.**  
WDAY, Inc., Black Bldg., 118 Broadway.

**WDBJ 930 250 Roanoke, Va.**  
Times World Corp., 122 W. Church Ave.

**WDDB 580 250 Orlando, Fla.**  
Orlando Broadcasting Co., Inc.

**WDEL 1120 250 Wilmington, Del.**  
WDEL, Inc., 10th and King Sts.

**WDEV 550 500 Waterbury, Vt.**  
Harry C. Whitehill, Stowe St.

**WDGY 1180 1000 Minneapolis, Minn.**  
Dr. Geo. W. Young, 909 W. Broadway.

**WDOD 1280 1000 Chattanooga, Tenn.**  
WDOD Broadcasting Corp., Hotel Patten.

**WDRC 1330 500 Hartford, Conn.**  
WDRC, Inc., Corning Bldg., 11 Asylum St.

**WDSU 1250 1000 New Orleans, La.**  
Jos. H. Uhalt, On Hotel DeSoto.

**WDZ 1070 100 Tuscola, Ill.**  
James L. Bush.

**WEAF 660 50000 New York, N. Y.**  
National Broadcasting Co., Inc.

**WEAN 780 500 Providence, R. I.**  
Shepard Broadcasting Service, Inc.

**WEBC 1290 1000 Superior, Wis.**  
Head of the Lakes Broadcasting Co.

**WEBQ 1210 100 Harrisburg, Ill.**  
Harrisburg Broadcasting Co.

**WEBR 1310 100 Buffalo, N. Y.**  
Howell Broadcasting Co., Inc., 735 Main.

**WEDC 1210 100 Chicago, Ill.**  
Emil Denemark, 3860 Ogden Ave.

**WEED 1420 100 Greenville, N. C.**  
Wm. Avera Wynne.

**WEEL 590 1000 Boston, Mass.**  
Edison Elec. Illuminating Co.

**WEEU 830 1000 Reading, Pa.**  
Berks Broadcasting Co., 533 Penn.

**WEHC 1350 500 Charlottesville, Va.**  
Community Brdcastg. Corp.

**WEHS 1420 100 Cicero, Ill.**  
WEHS, Inc., 6138 W. 22nd St.

**WELL 1420 50 Battle Creek, Mich.**  
Enquirer News Co., 7 N. McCamly St.

**WENC 1420 100 Americus, Ga.**  
Americus Broadcast Corp.

**WENR 870 50000 Chicago, Ill.**  
Great Lakes Broadcasting Co.

**WESG 1040 1000 Elmira, N. Y.**  
Elmira Star Gazette, Inc.

**WEVD 1300 500 New York, N. Y.**  
Jewish Daily Forward, Hotel Claridge.

**WEW 760 1000 St. Louis, Mo.**  
St. Louis University, 221 N. Grand Blvd

**WEXL 1310 50 Royal Oak, Mich.**  
Royal Oak Broadcasting Co.

**WFAA 800 50000 Dallas, Texas.**  
Morning News and Journal.

**WFAB 1300 1000 New York, N. Y.**  
Fifth Avenue Broadcasting Corp.

**WFAM 1200 100 South Bend, Ind.**  
South Bend Tribune, 200 W. Colfax.

**WFAS 1210 100 White Plains, N. Y.**  
Westchester Broadcasting Corp.

**WFBC 1200 100 Greenville, S. C.**  
Greenville News-Piedmont Co.

**WFBE 1200 100 Cincinnati, Ohio.**  
WFBE, Inc., Hotel Sinton.

**WFBG 1310 100 Altoona, Pa.**  
Gable Broadcasting Co. 12th Av. & 13th St.

**WFBL 1360 1000 Syracuse, N. Y.**  
Onondaga Radio Broadcasting Corp.

**WFBM 1230 1000 Indianapolis, Ind.**  
Indianapolis Power & Light Co.

**WFRB 1270 500 Baltimore, Md.**  
Baltimore Radio Show, Inc.

**WFDL 1310 100 Flint, Mich.**  
Flint Broadcasting Co.

**WFDV 1500 100 Rome, Ga.**  
Rome Broadcasting Corp., 10 3rd Ave.

**WFEA 1430 500 Manchester, N. H.**  
New Hampshire Broadcasting Co.

**WFI 560 500 Philadelphia, Pa.**  
WFI Broadcasting Co., 801 Market.

**WFIW 940 1000 Hopkinsville, Ky.**  
WFIW, Inc., 8th and Main Sts.

**WFLA 620 1000 Clearwater, Fla.**  
Florida West Coast Broadcasting Co., Inc.

**WFOX 1400 500 Brooklyn, N. Y.**  
Paramount Broadcasting Co., 1 Nevins St.

**WGAL 1310 100 Lancaster, Pa.**  
WGAL, Inc., 8 W. King St.

**WGAR 1450 500 Cleveland, Ohio.**  
WGAR Broadcasting Co., Hotel Statler.

**WGBB 1210 100 Freeport, N. Y.**  
H. H. Carman, 64 S. Grove St.

**WGBF 630 500 Evansville, Ind.**  
Evansville On the Air, Inc.

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<b>WGCM 1210 100</b> Mississippi City, Miss. Great Southern Land Co., Gulfport, Miss.	<b>WHOM 1450 250</b> Jersey City, N. J. New Jersey Broadcasting Corp.
<b>WGCP 1250 250</b> Newark, N. J. May Radio Broadcasting Co.	<b>WHP 1430 500</b> Harrisburg, Pa. WHP, Inc., Harrisburg Telegraph.
<b>WGES 1360 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., Otsego 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 50</b> Chester, N. Y. Peter Goelet (Orange County).	<b>WIBW 580 1000</b> Topeka, Kans. Topeka Broadcasting 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 899 250</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 580 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 1800 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., Scarritt 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 820 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> New Orleans, La. Baton Rouge Broadcasting Co., Inc.
<b>WHEF 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>WJBY 1210 100</b> Gadsden, Ala. Ingram's Broadcasting Co., 112 N. 8th St.
<b>WHFC 1420 100</b> Cicero, Ill. WHFC, Inc., 6138 W. 22nd St.	<b>WJBX 1270 1000</b> Jackson, Miss. Lamar Life Insurance Co.
<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.	

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<b>WJJD 1130 20000 Chicago, Ill.</b> WJJD, Inc., 201 N. Wells St.	<b>WLS 870 50000 Chicago, Ill.</b> Agricultural Broadcasting Co.
<b>WJMS 1420 100 Ironwood, Mich.</b> WJMS, Inc., St. James Hotel.	<b>WLTH 1400 500 Brooklyn, N. Y.</b> Voice of Brooklyn, Inc.
<b>WJR 750 10000 Detroit, Mich.</b> WJR, Inc., Fisher Bldg.	<b>WLVA 1370 100 Lynchburg, Va.</b> Lynchburg Broadcasting Corp.
<b>WJSV 1460 10000 Washington, D. C.</b> Old Dominion Broadcasting Co.	<b>WLW 700 50000 Cincinnati, Ohio.</b> Crosley Radio Corp.
<b>WJTL 1370 100 Atlanta, Ga.</b> Oglethorpe University.	<b>WLWL 1100 5000 New York, N. Y.</b> Missionary Society of St. Paul.
<b>WJW 1210 100 Akron, Ohio.</b> WJW, Inc., 41 S. High St.	<b>WMAL 630 250 Washington, D. C.</b> National Broadcasting Co., Inc.
<b>WJZ 750 50000 New York, N. Y.</b> National Broadcasting Co., Inc.	<b>WMAQ 670 5000 Chicago, Ill.</b> National Broadcasting Co., Inc.
<b>WKAQ 1240 1000 San Juan, P. R.</b> Radio Corp. of Porto Rico.	<b>WMAS 1420 100 Springfield, Mass.</b> WMAS, Inc., Hotel Stonehaven.
<b>WKAR 1040 1000 East Lansing, Mich.</b> Michigan State College.	<b>WMAZ 1180 500 Macon, Ga.</b> Southeastern Broadcasting Co.
<b>WKBB 1310 100 Joliet, Ill.</b> Richard W. Hoffman, Joliet Natl. Bank Bldg.	<b>WMBC 1420 100 Detroit, Mich.</b> Michigan Broadcasting Co.
<b>WKBC 1310 100 Birmingham, Ala.</b> R. B. Broyles, Tutwiler Hotel.	<b>WMBD 1440 500 Peoria, Ill.</b> Peoria Broadcasting Co.
<b>WKBF 1400 500 Indianapolis, Ind.</b> Indianapolis Broadcasting, Inc.	<b>WMBG 1210 100 Richmond, Va.</b> Havens and Martin, Inc.
<b>WKBH 1380 1000 LaCrosse, Wis.</b> WKBH, Inc., 409 Main St.	<b>WMBH 1420 100 Joplin, Mo.</b> W. M. Robertson.
<b>WKBI 1420 100 Cicero, Ill.</b> WKBI, Inc., 6138 W. 22nd St.	<b>WMBI 1080 5000 Chicago, Ill.</b> Moody Bible Institute.
<b>WKBN 570 500 Youngstown, Ohio.</b> WKBN Broadcasting Corp.	<b>WMBO 1310 100 Auburn, N. Y.</b> WMBO, Inc., Metcalf Bldg.
<b>WKBV 1500 100 Connersville, Ind.</b> Wm. O. Knox, Box 286	<b>WMBQ 1500 100 Brooklyn, N. Y.</b> Paul J. Gollhofer, 95 Leonard St.
<b>WKBW 1480 5000 Buffalo, N. Y.</b> Buffalo Broadcasting Corp.	<b>WMBR 1370 100 Tampa, Fla.</b> F. J. Reynolds, 907 Florida Ave.
<b>WKBZ 1500 100 Ludington, Mich.</b> Karl L. Ashbacher & Sons.	<b>WMC 780 500 Memphis, Tenn.</b> Commercial Appeal, Inc., Hotel Gayoso.
<b>WKCU 1500 100 LaGrange, Ga.</b> Radio Station WKEU, 906 Hill St.	<b>WMCA 570 500 New York, N. Y.</b> Knickerbocker Broadcasting Co.
<b>WKFI 1210 100 Greenville, Miss.</b> J. Pat Seully, Box 302.	<b>WMED 1420 100 Florence, Ala.</b> Kathryn Jones.
<b>WKJC 1200 100 Lancaster, Pa.</b> Lancaster Broadcasting Service, Inc.	<b>WMIL 1500 100 Brooklyn, N. Y.</b> Arthur Paske, 1525 Pitkin Ave.
<b>WKOK 1210 100 Sunbury, Pa.</b> Sunbury Broadcasting Co.	<b>WMMN 890 250 Fairmont, W. Va.</b> A. M. Rowe, Inc., 325 Adams St.
<b>WKRC 550 1000 Cincinnati, Ohio.</b> WKRC, Inc., Hotel Alms.	<b>WMPC 1500 100 Lapeer, Mich.</b> First Methodist Protestant Church.
<b>WKY 900 1000 Oklahoma City, Okla.</b> Oklahoma Publishing Co.	<b>WMSG 1350 250 New York, N. Y.</b> New York Metropolitan Broadcasting Corp.
<b>WKZO 590 1000 Kalamazoo, Mich.</b> John E. Fetzner, Burdick Hotel.	<b>WMT 600 500 Waterloo, Iowa.</b> Waterloo Broadcasting Co.
<b>WLAC 1470 5000 Nashville, Tenn.</b> Life & Casualty Insurance Co.	<b>WNAC 1230 1000 Boston, Mass.</b> Shepard Broadcasting Service, Inc.
<b>WLAP 1200 100 Louisville, Ky.</b> American Broadcasting Corp. of Ky.	<b>WNAD 1010 500 Norman, Okla.</b> University of Oklahoma.
<b>WLB 1250 1000 Minneapolis, Minn.</b> University of Minnesota.	<b>WNAX 670 1000 Yankton, S. D.</b> The House of Gurney, Inc., 2nd and Capital St.
<b>WLBC 1310 50 Muncie, Ind.</b> D. A. Burton, Anthony Bldg.	<b>WNB 1500 100 Binghamton, N. Y.</b> Howitt-Wood Radio Co., Inc.
<b>WLBK 1420 100 Kansas City, Kans.</b> WLBK Broadcasting Co., Huron Bldg.	<b>WNB 1310 100 New Bedford, Mass.</b> New Bedford Broadcasting Co.
<b>WLBL 900 2500 Stevens Point, Wis.</b> Wisconsin Dept. of Agriculture and Markets.	<b>WNBO 1200 100 Silver Haven, Pa.</b> John Brownlee Spriggs. (Washington, Pa.)
<b>WLBW 1250 500 Erie, Pa.</b> Broadcasters of Pennsylvania, Inc.	<b>WNBR 1430 500 Memphis, Tenn.</b> Memphis Broadcasting Co., Hotel DeVoy.
<b>WLBZ 620 500 Bangor, Me.</b> Maine Broadcasting Co., Inc., 100 Main.	<b>WNB 1200 10 Carbondale, Pa.</b> WNBW, Inc., 50 Main St., N.
<b>WLEC 1340 250 Portland, Me.</b> Casco Bay Broadcasting Co.	<b>WNBX 1260 250 Springfield, Vt.</b> WNBX Broadcasting Corp., 39 Main St.
<b>WLEY 1370 100 Lexington, Mass.</b> Albert S. Moffat	<b>WNBZ 1290 50 Saranac Lake, N. Y.</b> Smith & Mace, 70 Broadway.
<b>WLIT 560 500 Philadelphia, Pa.</b> Lit Bros. Broadcasting System, Inc.	<b>WNOX 560 1000 Knoxville, Tenn.</b> WNOX, Inc.

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<b>WNYC 810 500 New York, N. Y.</b> Dept. of Plant and Structures.	<b>WRAC 1370 100 Williamsport, Pa.</b> WRAC, Inc., 244 W. 4th St.
<b>WOAI 1190 50000 San Antonio, Texas.</b> Southern Equipment Co., 1038 Navarro.	<b>WRAM 1370 100 Wilmington, N. C.</b> Wilmington Radio Assn., Princess St.
<b>WOBu 580 250 Charleston, W. Va.</b> WOBu, Inc., Ruffner Hotel.	<b>WRAW 1310 100 Reading, Pa.</b> Reading Broadcasting Co., 533 Penn St.
<b>WOC- 1000 50000 Des Moines, Iowa.</b>	<b>WRAX 1020 250 Philadelphia, Pa.</b> WRAX Broadcasting Co., 217 S. Broad St.
<b>WHO Central Broadcastg. Co., 914 Walnut St.</b>	<b>WRBL 1200 100 Columbus, Ga.</b> WRBL Radio Station, Inc.
<b>WOCL 1210 50 Jamestown, N. Y.</b> A. E. Newton, 840 N. Main St.	<b>WRBX 1410 250 Roanoke, Va.</b> Richmond Development Corp.
<b>WODA 1250 1000 Paterson, N. J.</b> WODAAM Corp., 115 Ellison St.	<b>WRC 950 500 Washington, D. C.</b> National Broadcasting Co., Inc.
<b>WODX 1410 500 Mobile, Ala.</b> Mobile Broadcasting Corp., Battle House.	<b>WRDO 1370 100 Augusta, Me.</b> WRDO, Inc., Augusta House.
<b>WOI 640 5000 Ames, Iowa.</b> Iowa State College.	<b>WRDW 1500 100 Augusta, Ga.</b> Virgil V. Evans Co., 309 8th St.
<b>WOKO 1430 500 Albany, N. Y.</b> WOKO, Inc., Hotel Ten Eyck.	<b>WREC 600 500 Memphis, Tenn.</b> WREC, Inc., Hotel Peabody.
<b>WOL 1310 100 Washington, D. C.</b> American Broadcasting Co., Annapolis Hotel.	<b>WREN 1220 1000 Lawrence, Kans.</b> Jenny Wren Co., 8th and Vermont St.
<b>WOMT 1210 100 Manitowoc, Wis.</b> Francis M. Kadow, Box 326.	<b>WRHM 1250 1000 Minneapolis, Minn.</b> Minnesota Broadcasting Corp., 115 E. Grant.
<b>WOOD 1270 500 Grand Rapids, Mich.</b> Kunsky-Trendle Broadcasting Corp.	<b>WRJM 1370 100 Racine, Wis.</b> Racine Broadcasting Corp., Hotel Racine.
<b>WOPI 1500 100 Bristol, Tenn.</b> Radiophone Broadcasting Station WOPI, Inc.	<b>WRNY 1010 250 New York, N. Y.</b> Marcus Loew Booking Agency.
<b>WOQ 1300 1000 Kansas City, Mo.</b> Unity School of Christianity.	<b>WROL 1310 100 Knoxville, Tenn.</b> Stuart Broadcasting Corp., 524 S. Gay.
<b>WOR 710 5000 Newark, N. J.</b> Bamberger Broadcasting Service, Inc.	<b>WRR 1280 500 Dallas, Texas.</b> City of Dallas, Hilton Hotel.
<b>WORC 1280 500 Worcester, Mass.</b> Alfred F. Kleindienst, 60 Franklin St.	<b>WRUF 830 5000 Gainesville, Fla.</b> State University.
<b>WORK 1000 1000 York, Pa.</b> York Broadcasting Co., 15 S. Beaver St.	<b>WRVA 1110 5000 Richmond, Va.</b> Larus & Bro. Co., Inc., 22nd and Gary St.
<b>WOS 630 500 Jefferson City, Mo.</b> State Highway Control, Capitol Bldg.	<b>WSAI 1330 500 Cincinnati, Ohio.</b> Crosley Radio Corp., 1329 Arlington.
<b>WOSU 570 750 Columbus, Ohio.</b> Ohio State University.	<b>WSAJ 1310 100 Grove City, Pa.</b> Grove City College.
<b>WOV 1130 1000 New York, N. Y.</b> International Broadcasting Corp.	<b>WSAN 1440 250 Allentown, Pa.</b> WSAN, Inc., 39 10th St.
<b>WOW 590 1000 Omaha, Neb.</b> Woodmen of the World, 4th and Farnam.	<b>WSAR 1450 250 Fall River, Mass.</b> Doughty & Welch Electric Co., Inc.
<b>WOWO 1160 10000 Fort Wayne, Ind.</b> Main Auto Supply Co., 213 W. Main.	<b>WSAZ 1190 1000 Huntington, W. Va.</b> WSAZ, Inc., 929½ 4th Ave.
<b>WPAD 1420 100 Paducah, Ky.</b> Paducah Broadcasting Co., Inc.	<b>WSB 740 5000 Atlanta, Ga.</b> Atlanta Journal, 7 N. Forsyth St.
<b>WPAP 1010 250 New York, N. Y.</b> Marcus Loew Booking Agency.	<b>WSBC 1210 100 Chicago, Ill.</b> Gene T. Dyer, 1258 S. Michigan Ave.
<b>WPEN 1500 100 Philadelphia, Pa.</b> William Penn Broadcasting Co.	<b>WSBT 1230 500 South Bend, Ind.</b> South Bend Tribune.
<b>WPFB 1370 100 Hattiesburg, Miss.</b> Hattiesburg Broadcasting Co., Box 530.	<b>WSEN 1210 100 Columbus, Ohio.</b> Columbus Broadcasting Corp., 144 S. High.
<b>WPG 1100 5000 Atlantic City, N. J.</b> Columbia Broadcasting System.	<b>WSFA 1410 500 Montgomery, Ala.</b> Montgomery Brdg. Co., Inc., Jeff. Dav. B'l.
<b>WPHR 1200 100 Petersburg, Va.</b> WLBG, Inc., Medical Arts Bldg.	<b>WSIX 1210 100 Springfield, Tenn.</b> 638 Tire & Vulcanizing Co.
<b>WPRO 1210 100 Providence, R. I.</b> Cherry & Webb Broadcasting Co., 15 Chestnut.	<b>WSJS 1310 100 Winston-Salem, N. C.</b> Winston-Salem Journal Co., 416 N. Marshall.
<b>WPTF 680 5000 Raleigh, N. C.</b> Durham Life Insurance Co.	<b>WSM 650 50000 Nashville, Tenn.</b> National Life & Accident Insurance Co.
<b>WQAM 560 1000 Miami, Fla.</b> Miami Broadcasting Co., Inc., 327 N. E. 1st Ave.	<b>WSMB 1320 500 New Orleans, La.</b> WSMB, Inc., Maison Blanche Bldg.
<b>WQAN 880 250 Scranton, Pa.</b> Scranton Times, 149 Penn Ave.	<b>WSMK 1380 200 Dayton, Ohio.</b> S. M. Krohn, Jr., 4th and Main St.
<b>WQAO 1010 250 New York, N. Y.</b> Marcus Loew Booking Agency.	<b>WSOC 1210 100 Gastonia, N. C.</b> WSOC, Inc., Box 730.
<b>WQBC 1360 500 Vicksburg, Miss.</b> Delta Broadcasting Co., Hotel Vicksburg.	<b>WSPA 1420 100 Spartanburg, S. C.</b> Virgil V. Evans, Ravenel and Avant St.
<b>WQDM 1370 100 St. Albans, Vt.</b> A. J. St. Antoine and E. J. Regan.	<b>WSPD 1340 1000 Toledo, Ohio.</b> Toledo Broadcasting Co., 505 Jefferson
<b>WQDX 1210 100 Thomasville, Ga.</b> Stevens Luke, 135 E. Jackson St.	

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**WSUI 880 500 Iowa City, Iowa.**  
State University of Iowa.

**WSUN 620 1000 St. Petersburg, Fla.**  
Florida Westcoast Broadcasting Co., Inc.

**WSVS 1370 50 Buffalo, N. Y.**  
Seneca Vocational High School.

**WSYB 1500 100 Rutland, Vt.**  
Philip Weiss Music Co., 80 West St.

**WSYR 570 250 Syracuse, N. Y.**  
Central New York Broadcasting Corp.

**WTAD 1440 500 Quincy, Ill.**  
Illinois Broadcasting Corp., State and 6th.

**WTAG 580 250 Worcester, Mass.**  
Worcester Telegram Publishing Co.

**WTAM 1070 50000 Cleveland, Ohio.**  
National Broadcasting Co., Inc.

**WTAQ 1330 1000 Eau Claire, Wis.**  
Gillette Rubber Co., Hotel Eau Claire.

**WTAR 780 500 Norfolk, Va.**  
WTAR Radio Corp., Wainwright Bldg.

**WTAW 1120 500 College Station, Texas.**  
Agricultural and Mechanical College.

**WTAX 1210 100 Springfield, Ill.**  
WTAX, Inc., 416 E. Capitol Ave.

**WTBO 1420 100 Cumberland, Md.**  
Associated Broadcasting Corp., Box 794.

**WTEL 1310 100 Philadelphia, Pa.**  
Foulkrod Radio Engineering Co., Inc.

**WTFI 1450 500 Athens, Ga.**  
Liberty Broadcasting Co., Costa Bldg.

**WTIC 1060 50000 Hartford, Conn.**  
Travelers Broadcasting Service Corp.

**WTJS 1310 100 Jackson, Tenn.**  
Sun Publishing Co., Sun Bldg.

**WTMJ 620 1000 Milwaukee, Wis.**  
The Journal Co., 333 W. State St.

**WTNJ 1280 500 Trenton, N. J.**  
Trenton Broadcasting Co., Stacy Trent Hotel.

**WTOC 1260 500 Savannah, Ga.**  
Savannah Broadcasting Co., Inc., DeSoto Hotel.

**WTRC 1310 50 Elkhart, Ind.**  
Truth Radio Corp., Hotel Elkhart.

**WWAE 1200 100 Hammond, Ind.**  
Hammond Calumet Broadcasting Corp.

**WWJ 920 1000 Detroit, Mich.**  
Evening News Assn., 616 Lafayette Blvd.

**WWL 850 10000 New Orleans, La.**  
Loyola University, Roosevelt Hotel.

**WWNC 570 1000 Asheville, N. C.**  
Citizen Broadcasting Co., Inc., Flatiron Bldg.

**WWRL 1500 100 Woodside, N. Y.**  
Long Island Broadcasting Corp.

**WWSW 1500 100 Pittsburgh, Pa.**  
Walker & Downing Radio Corp.

**WWVA 1160 5000 Wheeling, W. Va.**  
West Virginia Broadcasting Corp.

**WXYZ 1240 1000 Detroit, Mich.**  
Kunsky-Trendle Broadcasting Corp.

**XEA 1000 250 Guadalajara, Jal.**  
Alberto Palos Souza.

**XEAB 1450 7.5 Nuevo Laredo, Tams.**  
Horacio Mattei A. y Humberto Garcia.

**XEAC 1295 100 San Luis Potosi, S.L.P.**  
Francisco de P. Cabrera.

**XEAD 875 250 Mexico City, D. F.**  
Julio Zetina Osorio.

**XEAE 1000 50 Mexicali, B. C.**

**XEAI 1090 100 Mexico City, D. F.**  
Carlos Gonzales Caballero.

**XEAN 750 5000 Juarez, Chih.**  
Radio Difusora National S. A.

**XEAO 560 100 Mexicali, B. C.**  
Luis L. Castro.

**XEAW 965 10000 Reynosa, Tams.**  
Internacional Broadcasting Co., S. A.

**XEB 1030 10000 Mexico City, D. F.**  
El Buen Tono, S. A., Buen Tono No. 6.

**XEC 1000 50 Toluca, D. F.**  
Jesus R. Benavides.

**XED 1155 500 Guadalajara, Jal.**  
Radiofonografica de Guadalajara, S. A.

**XEF 735 150000 Villa Acuna, Coah.**  
Compania Radiodifusora de Acuna, S. A.

**XEFA 1250 500 Mexico City, D. F.**  
Eduardo Limon Segui.

**XEFB 1315 100 Monterrey, N. L.**  
Jesus Quintanilla.

**XEFC 1050 100 Merida, Yuc.**  
J. Molina Font.

**XEFD 855 2500 Tijuana, B. C.**  
Carlos de la Sierra.

**XEFE 1000 100 Laredo, Tams.**  
Rafael T. Carranza.

**XEFI 1260 250 Chihuahua, Chih.**  
Feliciano Lopez Isles, Ap. 157.

**XEFJ 1000 100 Monterrey, N. L.**  
R. Junco de la Vega.

**XEFO 940 5000 Mexico City, D. F.**  
Partido Nacional Revolucionario.

**XEFS 1000 40 Queretaro, Qro.**  
Salvador Sanchez.

**XEFV 1370 100 Juarez, Chih.**  
J. Onofre Meza.

**XEFW 1280 70 Tampico, Tams.**  
J. Expedito Martinez.

**XEFZ 1370 100 Mexico City, D. F.**  
Jose Onofre Meza.

**XEG 1075 500 Mexico City, D. F.**  
Ricardo Gonzales Montero.

**XEH 1132 250 Monterrey, N. L.**  
Tarnava y Cia, P. Mier 215.

**XEI 1310 250 Morelia, Mich.**  
Carlos Gutierrez M.

**XEJ 1015 500 Juarez, Chih.**  
Juan G. Buttner and Leo Allande.

**XEK 990 100 Mexico City, D. F.**  
Arturo Martinez.

**XEL 1000 40 Saltillo, Coah.**  
Antonio Garza Castro.

**XEN 711 1000 Mexico City, D. F.**  
Cerveceria Modelo S. A.

**XENT 1115 150000 Nuevo Laredo, Tams.**  
Cia Industrial Universal S. A.

**XEO 940 5000 Mexico City, D. F.**  
Partido Nacional Revolucionario.

**XEP 780 500 Mexico City, D. F.**  
Cia Difusora de Mexico S. A.

**XEPN 585 75000 Piedras Negras, Coah.**  
Piedras Negras Broadcasting Co.

**XEQ 1330 500 Mexico City, D. F.**

**XER 735 150000 Villa Acuna, Coah.**  
Compania Radiodifusora de Acuna, S. A.

**XES 1020 250 Tampico, Tams.**  
Fernando Sada, Hotel Inglaterra.

**XET 690 500 Monterrey, N. L.**  
Cadema Radiodifusora Mexicana, S. A.

**XETA 1180 250 Mexico City, D. F.**  
Manuel Espanozo Tagle.

**XETB 1380 125 Torreon, Coah.**  
Jose A. Berumen.

**XETF 630 500 Veracruz, Ver.**  
Manuel Angel Fernandez.

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<b>XETH</b>	<b>860 100</b>	<b>Puebla, Pue.</b>
Ramon Huerta G.		
<b>XETM</b>	<b>845 150000</b>	<b>Matamoros, Tams.</b>
Miguel Muzquiz.		
<b>XETR</b>	<b>610 1000</b>	<b>Mexico City, D. F.</b>
Cia Difusora Mexicana S. A.		
<b>XETU</b>	<b>890 100</b>	<b>Pachuca, Hdgo.</b>
Rodrigo Manriquez.		
<b>XETW</b>	<b>815 600</b>	<b>Mexico City, D. F.</b>
Rafael M. Pena.		
<b>XEU</b>	<b>1010 100</b>	<b>Veracruz, Ver.</b>
Fernando Pazos Sosa.		
<b>XEW</b>	<b>910 6000</b>	<b>Mexico City, D. F.</b>
Cadena Radiodifusora Mexicana S. A.		
<b>XEX</b>	<b>1210 500</b>	<b>Mexico City, D. F.</b>
"Excelsior" Cia Editorial S. A.		
<b>XEY</b>	<b>546.8 10</b>	<b>Merida, Yuc.</b>
Partido Socialista del Surest.		
<b>XEZ</b>	<b>630 500</b>	<b>Merida, Yuc.</b>
<b>XFB</b>	<b>1290 500</b>	<b>Jalapa, Ver.</b>
Gobierno del Estado de Veracruz.		
<b>XFC</b>	<b>806 350</b>	<b>Aguascalientes, Ags.</b>
Gobierno del Estado de Aguascalientes.		

<b>XFG</b>	<b>638.3 2000</b>	<b>Mexico City, D. F.</b>
Secretaria de Guerra y Marina.		
<b>XFO</b>	<b>940 5000</b>	<b>Mexico City, D. F.</b>
National Revolucionario Publico.		
<b>XFX</b>	<b>860 500</b>	<b>Mexico City, D. F.</b>
Secretaria de Educacion Publica.		
<b>YV1BC</b>	<b>960 5000</b>	<b>Caracas, Venez.</b>
Cia Ama Alamacon Americana.		
<b>YV2BC</b>	<b>882 100</b>	<b>Caracas, Venez.</b>
<b>YV3BC</b>	<b>1200 1000</b>	<b>Caracas, Venez.</b>
Degwitz & Siblesz.		
<b>10-AK</b>	<b>1200 15</b>	<b>Stratford, Ont.</b>
M. I. Higgins, 151 Ontario St.		
<b>10-AT</b>	<b>1155 25</b>	<b>Trail, B. C.</b>
Trail Amateur Radio Assn.		
<b>10-B1</b>	<b>1200 25</b>	<b>Prince Albert, Sask.</b>
Prince Albert Radio Club.		
<b>10-BP</b>	<b>1200 25</b>	<b>Wingham, Ont.</b>
W. T. Cruickshank.		
<b>10-BQ</b>	<b>1200 15</b>	<b>Brantford, Ont.</b>
Tom and Harold Brown.		
<b>10-BU</b>	<b>1200 15</b>	<b>Canora, Sask.</b>
Canora Radio Assn.		

# One Hundred Best Short Wave Stations

## Arranged Alphabetically

Stations marked with an asterisk (\*) will not verify. Frequencies are given in megacycles. For details regarding any station, refer to Index by Frequencies.

*British Ships, 13.220, 8.831, 4.174.	HJ1ABB, Colombia, 5.793.	VE9JR, Canada, 11.710.
*CEC, Chile, 19.678, 15.855.	HJ2ABA, Colombia, 5.879.	VK2ME, Australia, 10.520, 9.585.
CGA, Canada, 13.296, 9.340.	HJ4ABB, Colombia, 7.139.	VK3ME, Australia, 9.503.
CNR, Morocco, 12.820, 8.218.	HJ4ABE, Colombia, 5.879.	VPN, Bahamas, 4.513.
CT1AA, Portugal, 9.592.	HSP, Siam, 17.719.	VWZ, India, 17.533.
DAF, Germany, 12.394.	I2RO, Italy, 11.800.	*WEA, U. S. A., 10.601.
DFB, Germany, 17.512.	Italian Ships, 8.566, 4.283.	*WEF, U. S. A., 9.488.
DIQ, Germany, 10.285.	J1AA, Japan, 9.862.	*WKK, U. S. A., 21.400.
DJA, Germany, 9.552.	KAY, Philippines, 14.980.	*WLA, U. S. A., 18.340.
DJB, Germany, 15.190.	KAZ, Philippines, 9.990.	*WMN, U. S. A., 14.582.
DJC, Germany, 6.017.	*KKP, Hawaii, 16.024.	*WNC, U. S. A., 15.055.
DJD, Germany, 11.753.	*KWU, U. S. A., 15.344.	W1XAL, U. S. A., 6.040.
DJE, Germany, 17.760.	LSN, Argentina, 21.020, 9.895.	W1XAZ, U. S. A., 9.560.
EAQ, Spain, 19.684, 9.862.	LSX, Argentina, 10.345.	W2XAD, U. S. A., 15.320.
FTM, France, 19.282.	LSY, Argentina, 18.116.	W2XAF, U. S. A., 9.530.
*German Ships, 13.135, 10.163, 8.328, 4.174.	*OCI, Peru, 18.670.	W2XE, U. S. A., 15.258, 11.823, 6.116.
GAU, England, 18.611.	*OCJ, Peru, 15.821.	W3XAL, U. S. A., 17.772, 6.096.
GBB, England, 13.500.	OXY, Denmark, 9.520.	W3XAU, U. S. A., 9.585, 6.057.
GBS, England, 12.148.	PHI, Holland, 17.761, 11.725.	W3XL, U. S. A., 6.421.
GBU, England, 12.241.	PLV, Java, 9.410.	W8XK, U. S. A., 21.451, 15.204, 11.870 6.140.
GBW, England, 14.450.	Pontoise, France, 15.234, 11.898, 11.711.	W9XAA, U. S. A., 6.076.
GSA, England, 6.050.	PUU, Brazil, 19.270.	W9XF, U. S. A., 6.100.
GSB, England, 9.510.	PRADO, Ecuador, 6.618.	XAM, Mexico, 11.187.
GSC, England, 9.585.	*PSA, Brazil, 21.069.	XETE, Mexico, 9.600.
GSD, England, 11.750.	*PSH, Brazil, 10.212.	YNA, Nicaragua, 14.480.
GSE, England, 11.865.	*RV15, U. S. S. R., 4.273.	*YVQ, Venezuela, 13.337.
GSF, England, 15.140.	*RXX, Panama, 14.545.	*YVR, Venezuela, 18.296, 9.168.
GSG, England, 17.770.	TGA, Guatemala, 14.545.	YV1BC, Venezuela, 6.112.
HBL, Switzerland, 9.580.	TIP, Costa Rica, 14.545, 7.685.	YV2AM, Venezuela, 14.102.
HBP, Switzerland, 7.872.	TIANRI, Costa Rica, 9.670.	YV3BC, Venezuela, 9.510, 6.134, 6.080.
*HJB, Colombia, 14.930.	VE9BJ, Canada, 6.090.	*ZFA, Bermuda, 5.045.
*HJP, Colombia, 7.465.	VE9DR, Canada, 6.005.	*ZFB, Bermuda, 10.060.
*HJY, Colombia, 18.444.	VE9GW, Canada, 6.092.	ZSS, South Africa, 18.856.
	VE9HX, Canada, 6.121.	

# One Hundred Best Short Wave Stations

## By Frequencies and Wave Lengths

Submitted by our readers as being most regularly received. Times are given in Eastern Standard. First column gives frequency in megacycles (for kilocycles read the decimal point as a comma) and the second column, wave-lengths in meters.

For complete lists of short-wave stations see the following issues of this magazine:

September: Foreign stations arranged by countries.

November: American stations by states.

December: Canadian stations by provinces and Complete list by call letters.

April: Complete list by frequencies and waves.

Stations marked with an asterisk (\*) will not verify.

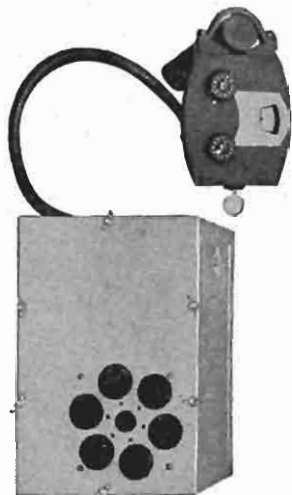
Frequency	Wave Length	Station Name	Time	Notes
	Broadcast B.	Phone P.		
4.174	71.82	British Ships	P	8.831 33.95 British Ships P
4.174	71.82	German Ships	P	9.168 32.70 YVR, Maracaay, Venezuela P
4.283	70.00	Italian Ships	P	9.273 32.33 GCB, Rugby, England. Phones Canada P
4.513	66.43	VPN, Nassau, Bahamas, Phones Hialeah	P	9.340 32.10 CGA, Drummondville, Quebec. Phones P
4.753	63.08	*WOO, Ocean Gate, N. J. Phones Ships	P	9.410 31.86 PLV, Bandoeng, Java. Irregular P
5.045	59.42	*VRT-ZFA, Hamilton, Bermuda. Phones	P	9.503 31.55 VK3ME, Melbourne, Australia. Wed., P
		WNB-GMBJ nights	P	5-6:30 a.m.: Sat., 5-7 a.m. B
5.793	51.75	HJ1ABB, Barranquilla, Colombia. 8 to	B	9.510 31.53 GSB, Daventry, England. To S. Africa B
		10 p.m., daily	B	1-5:30 p.m. To Canada 6-8 p.m.; 11:30 p.m.-1:30 a.m.; 8:30 a.m.-12:30 p.m. B
5.879	51.00	HJ2ABA, Tunja, Colombia, 7:30-10 p.m.	B	9.510 31.52 YV3BC, Caracas, Venezuela. Sun., 7:30-9:30 p.m.; Mon., 9-10 p.m. B
		daily	B	9.520 31.49 OXY, Skamleback, Denmark. 2-6:30 p.m. B
		HJ4ABE, Medellin, Colombia. Mon.,	B	9.530 31.46 W2XAF, Schenectady, N. Y., 7-10 p.m. B
		Wed., Fri., 7:30-9:30 p.m.	B	9.552 31.38 DJA, Zeesen, Germany, 3-9 p.m. B
6.005	49.93	VE9DR, Montreal, Quebec. Daily, 7:30	B	9.560 31.36 W1XAZ, Millis, Mass., 6 a.m.-mid. B
		a.m.-mid. Sunday, noon-11 p.m.	B	9.580 31.30 HBL, Geneva, Switzerland, Sun., 5-5:45 p.m. B
6.017	49.83	DJC, Zeesen, Germany	B	9.585 31.28 GSC, Daventry, England, 4:30-6:30 a.m.; 8:30 a.m.-12:30 p.m.; 1-5:30 p.m.; 6-8 p.m. B
6.040	49.64	W1XAL, Boston, Mass. Mon. to Fri.,	B	9.585 31.28 VK2ME, Sydney, Australia. Sun., 12:30-2:30 p.m.; 4:30-8:30 a.m.; 9:30-11:30 a.m. B
		9-10 p.m. Sat., 6-7 p.m. Sun., 12-2	B	9.585 31.28 W3XAU, Philadelphia, Pa., 11 a.m.-5 p.m. B
		and 7:30-9:30 p.m.	B	9.592 31.25 CT1AA, Lisbon, Portugal. Tues.-Fri., 5-7 p.m. B
6.050	49.56	GSA, Daventry, England. 1-5:30 p.m. B	B	9.600 31.23 XETE, Mexico City, Mex., 2:30-5 p.m.; 6:30 pm.-mid. B
6.057	49.50	W3XAU, Philadelphia, Pa. 7 p.m.-mid.	B	9.670 31.00 TI4NRH, Heredia, Costa Rica. Daily, 6:30-7:30 p.m. B
6.076	49.34	W9XAA, Chicago, Ill. 3-6 p.m. daily B	B	9.862 30.40 EAQ, Madrid, Spain. 5:30-7 p.m.; Sat., 1-3 p.m. B
6.080	49.31	YV3BC, Caracas, Venezuela	B	9.862 30.40 J1AA, Kemikawa-Cho, Japan, 5:30-7:30 a.m. B
6.090	49.23	VE9BJ, St. John, N. B., 5 p.m. and 11	B	9.895 30.30 LSN, Buenos Aires, Argentina, 6 p.m. and 6 a.m. P
		p.m.	B	9.990 30.01 KAZ, Manila, P. I., 3-7 a.m. P
6.092	49.22	VE9GW, Bowmanville, Ont., Mon., Thur.,	B	10.060 29.80 *VRT-ZFB, Hamilton, Bermuda. Phones P
		8 a.m.-noon; Thurs, Fri., 4-8 p.m.; Sat.,	B	10.163 29.50 WNB days
		4 p.m.-mid.: Sun., 11 a.m.-9 p.m.	B	10.212 29.35 German Ships
6.096	49.17	W3XAL, Boundbrook, N. J., Sat., 4:30	B	10.285 29.15 PSH, Rio de Janeiro, Brazil. Tests P
		p.m.-1 a.m.	B	10.345 28.98 W2XBJ evenings
6.100	49.15	W9XF, Chicago, Ill., Sat., silent; Sun.,	B	10.285 29.15 DIQ, Nauen, Germany B
		1-2:30, 4:30-7 and 9 p.m.-2 a.m.; other	B	10.345 28.98 LSX, Buenos Aires, Argentina P
		days, 4:30-8 p.m.; 9:30 p.m.-2 a.m. B	B	10.520 28.50 VK2ME, Sydney, Australia. Irreg. P
6.112	49.10	YV1BC, Caracas, Venezuela, 5:15-10 p.m.	B	10.601 28.28 WEA, Rocky Point, N. Y. Exp. P
			B	11.187 26.80 XAM, Merida, Yucatan P
6.116	49.02	W2XE, Wayne, N. J., 6-11 p.m. B	B	11.710 25.60 VE9JR, Winnipeg, Manitoba. Tues., 6:30-8:30 p.m.; Fri., to 9 B
6.121	48.98	VE9HX, Halifax, N. S. Sat. and Sun.,	B	11.710 25.60 Pontoise, France, 3-5 p.m.; 7:11 p.m. B
		5:30-10:30 p.m.	B	11,750 25.51 GSD, Daventry, England. To Oceania 8:30 a.m.-noon; 1-5:30 p.m.; 11:30 p.m.-1:30 a.m. B
6.134	48.87	YV3BC, Caracas, Venezuela, Sat., 9-10	B	11.753 25.51 DJD, Koeningwusterhausen, Germany. 1-6 p.m. B
		p.m.	B	11.760 25.50 *XDA, Mexico City. Tests XAM 1 p.m. P
6.140	48.83	W8XK, Pittsburgh, Pa. Relays KDKA	B	11.800 25.40 I2RO, Rome Italy. 11 a.m.-12:30 p.m.; 1-6 p.m. B
		4:30 p.m.-12:30 a.m.	B	
6.421	46.69	W3XL, Boundbrook, N. J. Exp.	B	
6.618	45.31	PRADO, Riobamba, Ecuador, Thur. 9-11	B	
		p.m.	B	
6.662	45.00	WXH, Ketchikan, Alaska. Phones	P	
		Seattle, night	P	
7.139	42.00	HJ4ABB, Nanizales, Colombia. Sat., 11	B	
		p.m.-mid.; Wed., 8-10 p.m.; Sun., 3-5	B	
		p.m.	B	
7.465	40.16	*HJP, Bogota, Colombia. Phones Hialeah	P	
			P	
7.605	39.42	*KWX, Dixon, Clif. Phones Hawaii and	P	
		Manila	P	
7.685	39.01	TIR, Cartago, Costa Rica. Phones	P	
		Hialeah	P	
7.872	38.47	HBP, Geneva, Switzerland, Sun., 5-5:45	B	
		p.m.	B	
8.218	36.36	CNR, Rabat, Morocco, Sun., 2:30-5 p.m.	B	
			B	
8.328	36.00	German Ships	P	
8.562	35.02	*WOO, Ocean Gate N. J. Phones Ships	P	
8.566	35.00	Italian Ships	P	

11.823	25.36	W2XE, Wayne, N. J. 3-5 p.m.	B	15.204	19.72	W8XK, Pittsburgh, Pa. Relays KDKA	B
11.865	25.27	GSE, Daventry, England. To India 8:30	B			10 a.m. to 4:15 p.m.	B
		1.m.-12:30 p.m.	B	15.234	19.68	Pontoise, France. 8 a.m.-11 a.m.	B
11.872	25.25	W8XK, Pittsburgh, Pa. Relays KDKA	B	15.258	19.65	W2XE, Wayne, N. J. 11 a.m.-1 p.m.	B
		4:30-10 p.m.	B	15.320	19.57	W2XAD, Schenectady, N. Y. Sun., 2-4	B
11.898	25.20	Pontoise, France. 11:30 a.m.-1:15 p.m.	B			p.m.; Mon., Wed., Fri. 2-3 p.m.	B
12.148	24.68	GBS, Rugby, England. Phones N. Y.	P	15.410	19.46	*KWO, Dixon, Calif. Phones Hawaii 2-7	P
		afternoon	P			p.m.	P
12.241	24.41	GBU, Rugby, England. Phones N. Y.	P	15.863	18.90	FTK, Ste. Assise, France. Phones Saigon,	P
		nights	P			mornings	P
12.394	24.19	DAF, Norden, Germany. Phones Ships	P	16.024	18.71	*KKP-KKU, Kahuku, Hawaii. Phones	P
			P			Dixon, days	P
12.820	23.38	CNR, Rabat, Morocco. Sun., 7:30 a.m.-	B	17.512	17.12	DFB, Nauen, Germany. Phones Vene-	P
		9 a.m.	B			zuela, mornings	P
12.839	23.36	WOO, Ocean Gate, N. J. Phones Ships	P	17.533	17.10	VWZ, Kirkee, Poona, India	P
13.035	23.00	German Ships	P	17.719	16.92	HSP, Bangkok, Siam	P
13.219	22.68	British Ships	P	17.761	16.88	PHI, Huizen, Holland. 5:40-11:40 a.m.	B
13.296	22.55	CGA, Drummondville, Que. 9 a.m.-2	P			DJE, Koenigswusterhausen, Germany B	B
		p.m.	P	17.770	16.88	GSG, Daventry, England. 6-8 a.m. and	B
13.337	22.48	*YVQ, Maracay, Venezuela. Phones Hialeah,	P			8:30 a.m. to 12:30 p.m.	B
		days	P	17.772	16.87	W3XAL, Boundbrook, N. J. 12:30 to	B
13.500	22.09	GBB, Rugby, England. Talks Canada	P			6:30 p.m. daily except Sat.	B
		daytimes	P	18.116	16.55	LSY, Buenos Aires, Argentina	P
14.102	21.26	YV2AM, Maracaibo, Venezuela. 6:30-	B	18.296	16.39	*YVR, Maracay, Venezuela. Heard about	P
		11:30 a.m., Sunday	B			10 a.m.	P
14.450	20.75	GBW, Rugby, England. 6 a.m. and 6	P	18.444	16.25	*HJY, Bogota, Colombia. 11 a.m. and	P
		p.m.	P			4 p.m.	P
14.480	20.70	YNA, Managua, Nicaragua. Phones Hialeah,	P	18.611	16.11	GAU, Rugby, England. Phones N. Y.	P
		days	P			days	P
		TIR, Cartago, Costa Rca. Phones Hialeah,	P	18.670	16.06	*OCI, Lima, Peru. 2 p.m.	P
		days	P	18.856	15.90	ZSS, Capetown, South Africa. Phones	P
14.545	20.69	*RXF, Panama City, Panama. Phones Hialeah,	P			London, mornings	P
		days	P	19.270	15.57	PPU, Rio de Janeiro, Brazil	P
		TGA, Guatemala City, Guatemala. Phones Hialeah,	P	19.282	15.55	PTM, St. Assise, France. 10 a.m.-2 p.m.	P
		days	P	19.678	15.24	*CEC, Santiago, Chile. 11 a.m. and 4 p.m.	P
14.930	20.08	*HJB, Bogota, Colombia. Phones Hialeah	P			days	P
		days	P	19.684	15.23	EAQ, Madrid, Spain. Phones	P
14.980	20.01	KAY, Manila, P. I. 3-7 a.m.	P	21.020	14.27	LSN, Buenos Aires, Argentina. 8 a.m.	P
15.055	19.91	*WNC, Hialeah, Florida. Phones Pan-	P			and 4 p.m.	P
		American stations, days	P	21.054	14.24	*WKA, Lawrenceville, N. J. 8 a.m.-4 p.m.	P
15.140	19.81	GSE, Daventry, England. 6-8 a.m.;	B			and 4 p.m.	P
		1-4:30 p.m.; 6-8 p.m.; 11:30 p.m. to	B	21.069	14.23	PSA, Rio de Janeiro, Brazil. 8 a.m.	P
		1:30 a.m.	B	21.400	14.01	*WKK, Lawrenceville, N. J. 8 a.m.-4 p.m.	P
15.190	19.73	DJB, Zeesen, Germany. 8 a.m.-noon	B			and 4 p.m.	P
			B	21.470	13.96	GSH, Daventry, England	B
			B	21.451	13.93	W8XK, Pittsburgh, Pa. 7 a.m.-2 p.m.	B

## Noise-Free Auto Set

**A**CTING on the theory that interference-suppressors for spark plugs cut the gas mileage, make cars harder to start and reduce speed, the Audiola Radio Co., 430 South Green St., Chicago, has brought out a completely self-contained auto radio. It is a superheterodyne circuit with six new type tubes (the eliminator is tubeless), automatic volume control, Jensen dynamic speaker, steering column control with positive gear drive, and 10-kc selectivity.

The Audiola is said to be very easily installed with only two electrical connections, one to aerial and one to ammeter stud with no soldering necessary. The manufacturers claim that this auto radio is on a performance level with expensive home receivers.



The Audiola Superheterodyne Automobile Radio



# THE SUMMER CHANGES

## POWER

540	KEY	Merida, Yuc., 105 to 10
550	KFOY	Brookings, S. D., 1000 to 500
550	KFUO	St. Louis, Mo., 1000 to 500
560	KGIZ	Springfield, Mo., 100 to 500
560	XEAO	Mexicali, Mex., 7.5 to 100
570	WOSU	Columbus, Ohio, 1000 to 750
580	HIX	Santo Domingo, D. R., 1000 to 1500
585	XEPN	Piedras Negras, Coah., 100000 to 75000
600	CFCF	Montreal, Que., 500 to 400
630	CMCU	Havana, Cuba, 150 to 500
680	WPTF	Raleigh, N. C., 1000 to 5000
780	CMBS	Havana, Cuba, 150 to 200
780	XEP	Mexico City, Mex., 1000 to 500
790	CMJK	Camaguey, Cuba, 300 to 500
810	VOAS	St. John's, Nfld., 75 to 100
850	XEFD	Tijuana, Mex., 2500 to 300
880	CJCB	Sydney, N. S., 100 to 50
915	CFRC	Kingston, Ont., 50 to 100
925	CMBW	Havana, Cuba, 150 to 600
950	CMHD	Caibarien, Cuba, 250 to 500
965	CMCW	Havana, Cuba, 150 to 100
1000	XEA	Guadalajara, Jal., 100 to 250
1000	XEL	Saltillo, Coah., 10 to 40
1030	CFNB	Fredericton, N. B., 100 to 50
1037	CMHI	Santa Clara, Cuba, 30 to 250
1050	XEFC	Merida, Yuc., 10 to 100
1120	KTRH	Houston, Texas, 500 to 1000
1140	CMCD	Havana, Cuba, 250 to 500
1150	CMJH	Ciego de Avila, Cuba, 30 to 50
1180	KOB	Albuquerque, N. M., 20000 to 10000
1185	CMCJ	Havana, Cuba, 250 to 500
1190	CMHJ	Cienfuegos, Cuba, 40 to 60
1190	WSAZ	Huntington, W. Va., 500 to 1000
1195	VONF	St. John's, Nfld., 100 to 400
1200	CHAB	Moose Jaw, Sask., 25 to 400
1200	WHBC	Canton, Ohio, 10 to 100
1200	YV3BC	Caracas, Venez., 50 to 1000
1220	CMHK	Cruces, Cuba, 15 to 50
1240	KTFI	Twin Falls, Idaho, 500 to 1000
1260	XEFI	Chihuahua, Chih., 100 to 250
1280	WORC	Worcester, Mass., 100 to 500

1310	CKCV	Quebec, Que., 100 to 50
1310	XEI	Morelia, Mex., 150 to 250
1320	CMCY	Havana, Cuba, 1000 to 500
1350	TGW	Guatemala City, Gua., 250 to 500
1360	CMJP	Moron, Cuba, 7.5 to 75
1370	WGLC	Hudson Falls, N. Y., 50 to 100
1370	WJBK	Detroit, Mich., 100 to 50
1420	WACO	Waco, Texas, 1000 to 100
1430	CFCT	Victoria, B. C., 500 to 50
1445	CMBL	Havana, Cuba, 20 to 200
1500	CKOC	Hamilton, Ont., 100 to 500

## FREQUENCY

560	KGIZ	Springfield, Mo., from 1500
560	WIND	Gary, Ind., from 1360
580	HIX	Santo Domingo, D. R., from 630
590	CMW	Havana, Cuba, from 600
600	KFQD	Anchorage, Alaska, from 1230
730	CKWX	Vancouver, B. C., from 1010
805	XFC	Aguascalientes, Ags., from 810
815	XETW	Mexico City, Mex., from 830
840	CJOC	Lethbridge, Alta., from 580
860	XETH	Puebla, Pue., from 840
960	CRCT	Toronto, Ont., from 840
1010	CMJO	Ciego de Avila, Cuba, from 1110
1020	XES	Tampico, Tams., from 1055
1030	CFNB	Fredericton, N. B., from 1210
1037	CMHI	Santa Clara, Cuba, from 1030
1050	XEFC	Merida, Yuc., from 1020
1180	XETA	Mexico City, Mex., from 1140
1190	CMHJ	Cienfuegos, Cuba, from 1125
1260	XEFI	Chihuahua, Chih., from 1000
1280	CMJI	Ciego de Avila, Cuba, from 1335
1280	WORC	Worcester, Mass., from 1200
1280	XEFW	Tampico, Tams., from 1240
1310	CFJC	Kamloops, B. C., from 1120
1350	TGW	Guatemala City, Gua., from 1320
1375	CMCN	Havana, Cuba, from 925
1375	CMCR	Havana, Cuba, from 1365
1410	CMCH	Havana, Cuba, from 1405
1410	CMCM	Havana, Cuba, from 1405
1420	WACO	Waco, Texas, from 1240

## BROADCASTS *by* OUR READERS

"I am 72 years old and have been listening-in for over nine years. In that time I have had many radio magazines but never happened to run across RADEX until October, 1931. Then I was surprised to find how much better it was than anything else I had had."—H. L. Cady, 300 County Road, Barrington, R. I.

"RADEX is invaluable to any person who wishes to obtain the best possible enjoyment out of his set. It is interesting as well as informative and I read it from cover to cover. As far as I am concerned it has no competition."—Kent Ruth, Geary, Oklahoma.

"Just a few words of appreciation for your wonderful magazine. I have been getting it for nearly four years.

It has the most complete and up-to-date news and information of any magazine I have seen yet."—Harold W. Criswell, 1715 W. Orange St., York, Pa.

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"Your magazine will be the last one that I will discontinue. Enjoy reading it from cover to cover. Your indexes are very valuable on account of their being up to date."—Harold F. Barnes, 1526 Fifth N. E., Canton, Ohio.

1445 CMBK Havana, Cuba, from 1485

**DELETED**

560 WIBO Chicago, Ill.  
 560 WPCC Chicago, Ill.  
 590 WCAJ Lincoln, Neb.  
 645 CKCI Quebec, Que.  
 730 CHLS Vancouver, B. C.  
 730 CHYC Montreal, Que.  
 780 WPOR Portsmouth, Va.  
 790 CMHC Tuinucu, Cuba  
 815 CNRH Halifax, N. S.  
 818 XFI Mexico City, Mex.  
 840 CKLC Red Deer, Alta.  
 840 CPRO Toronto, Ont.  
 915 XFF Chihuahua, Chih.  
 1200 CHCH Montreal, Que.  
 1250 KFMX Northfield, Minn.  
 1290 KFVL Galveston, Texas  
 1310 WKAV Laconia, N. H.  
 1370 KGDA Mitchell, S. D.  
 1370 WJEQ Williamsport, Pa.  
 1395 CMDB Havana, Cuba.  
 1420 KGKX Sand Point, Idaho  
 1485 CMBR Havana, Cuba.  
 1500 WLOE Boston, Mass.

**NEW**

630 XEZ Merida, Yuc.  
 730 CFPL London, Ont.  
 780 CJCS Sudbury, Ont.  
 1000 XEAE Mexicali, B. C.  
 1100 TIRCA San Jose, C. R.  
 1200 KIGY Lowell, Ariz.  
 1210 CKCH Hull, Que.  
 1210 KWFV Hilo, Hawaii.  
 1270 CMCP Havana, Cuba.  
 1330 XEQ Mexico City, Mex.  
 1370 XEFZ Mexico City, Mex.  
 1420 WEEB Greenville, N. C.  
 1420 WMED Florence, Ala.  
 1500 CRCS Chicoutimi, Que.

**LOCATION**

560 KGIZ Springfield, Mo., from Grant City, Mo.

880 CJRW Winnipeg, Man., from Fleming, Sask.  
 1210 WGCM Mississippi City, from Gulfport, Miss.  
 1210 WKOK Sunbury, Pa., from Lewisburg, Pa.  
 1350 WEHC Charlottesville, Va., from Emory, Va.  
 1400 KOCW Tulsa, Okla., from Chickasha, Okla.  
 1420 KICK Carter Lake, Iowa, from Red Oak, Iowa

**CALLS**

560 WIND Gary, Ind., formerly WJKS  
 570 WOSU Columbus, Ohio, formerly WEOA  
 960 CRCT Toronto, Ont., formerly CKGW  
 1200 CHAB Moose Jaw, Sask., formerly 10-AB  
 1210 WKOK Sunbury, Pa., formerly WJBU  
 1370 KLUF Galveston, Texas, formerly KPLX

**PERMIT TO CHANGE FREQUENCY**

645 CHRC Quebec, Que., to 930  
 890 CFQC Saskatoon, Sask., to 540  
 1010 CKOC Hamilton, Ont., to 1510

**REINSTATED**

925 CMDE Havana, Cuba

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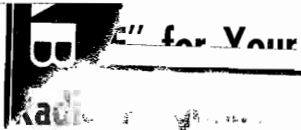
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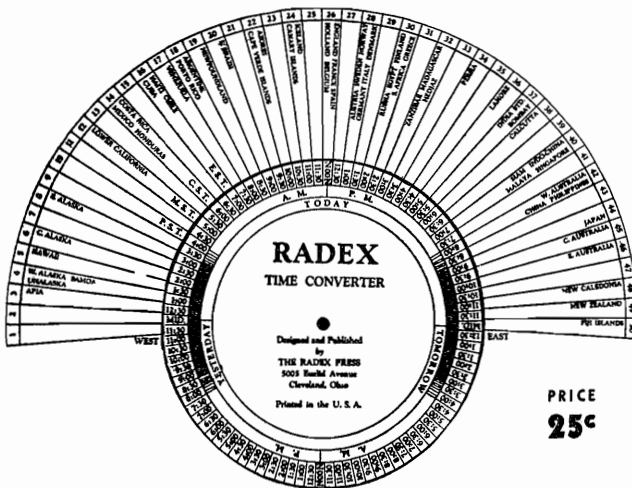
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