

THE SEPTEMBER 1933

RADIO IN INDEX

THE ALL-WAVE RADIO MAGAZINE



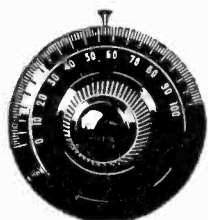
25^c

30 cents
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

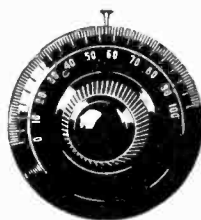
SEPTEMBER 1, 1933



RADIO INDEX

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FRED CLAYTON BUTLER
Editor and Publisher



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Technical Editor

PAGE TAYLOR
Short Wave Editor

TENTH YEAR

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Star of the Friday night Frigidaire Program

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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—WMBG, 1420, Detroit, Mich.
- WCAT, 1200, Rapid City, S. D.
- 4:00-4:20—WFDF, 1310, Flint, Mich.
- KGCU, 1240, Mandan, N. D.
- 4:10-4:30—WFBE, 1300, 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.
- KFJZ, 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.
- KGPI, 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.
- KGKB, 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, 1420, 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.
- WIBC, 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, Decorah, Iowa.
- 3:50-4:10—WCDA, WBNN, WMSG, 1350, New York City.
- WKZO, 590, Kalamazoo, Mich.
- KGNO, 1340, Dodge City, Kans.
- 4:00-4:20—WJAY, 610, Cleveland, Ohio.
- KGCA, 1270, Decorah, Iowa.
- 4:10-4:30—WAWZ, 1350, Xarepath, N. J.
- KFVS, 1210, Cape Girardeau, Mo.
- 4:20-4:40—KGHL, 950, Billings, Mont.
- 4:30-4:50—KDLR, 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—KRCR, 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—WSTI, 880, Iowa City, Iowa.
 - 5:50-6:10—KGGM, 1230, Albuquerque, N. M.
- *September only.

SUNDAY 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—KTTA, 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—KGFY, 630, Pierre, S. D.
- 4:50-5:10—KARK, 890, Little Rock, Ark.
- 5:00-5:20—KGGK, 570, Wichita Falls, Texas.
- 5:10-5:30—KPOF, 880, Denver, Colo.
- 5:20-5:40—WNAD, 1010, Norman, Okla.
- 5:30-5:50—KPKA, 880, Greeley, Colo.
- 5:40-6:00—KLOA, 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—WFAK, 1210, White Plains, N. Y.
- WRAK, 1370, Williamsport, Pa.
- 2:20-2:40—WNBK, 1500, Binghamton, N. Y.
- 2:30-2:50—WAGM, 1420, Presque Isle, Me.
- WBTM, 1370, Danville, Va.
- 2:40-3:00—WAB, 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.
- WWSV, 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.
- WBRE, 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—WAAT, 940, Jersey City, N. J.
- WJBU, 1210, Sunbury, Pa.
- KFBL, 1370, Everett, Wash.
- 5:00-5:20—WNSYR-WMAC, 570, 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—KUL, 1370, Walla Walla, Wash.
 5:40:6:00—KGCN, 1310, Wolf Point, Mont.
 5:50-6:10—KFQD, 1230, Anchorage, Alaska.
 6:00-6:20—KFLP, 1310, Juneau, Alaska.
 6:10-6:30—KVOB, 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—KFTO, 1120, Spokane, Wash.
 7:00-7:20—KFJL, 1210, Kinmath 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—WBHQ, 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—WHEP, 1210, Troy, Ala.
 3:20-3:40—WJSS, 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.
 KJRM, 1500, Prescott, Ariz.
 4:20-4:40—WTFB, 1370 Hattiesburg, Miss.
 KLRN, 1200, Bakersfield, Calif.
 4:30-4:50—WENC, 1220, Americus, Ga.
 KXO, 1500, El Centro, Calif.
 4:40-5:00—WBBX, 1200, New Orleans, La.
 KFBM, 1210, Eureka, Calif.
 4:50-5:10—WROL, 1310, Knoxville, Tenn.
 KLS, 1440, Oakland, Calif.
 5:00-5:20—WRAM, 1370, Wilmington, N. C.
 KGLX, 1420, Las Vegas, Nev.
 5:10-5:30—WJBW, 1200, New Orleans, La.
 KGMV, 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—KGAR, 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—WFBG, 1310, Altoona, Pa.
 2:50-3:10—WPHR, 1200, Petersburg, Va.
 3:00-3:20—WBBB, 1310, E. Dubuque, Ill.
 WEBE, 1290, Superior, Wis.
 3:10-3:30—WRBX, 1410, Roanoke, Va.
 WHBC, 1200, Canton, Ohio.
 KGIW, 1420, Trinidad, Colo.
 3:20-3:40—WBBI, 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—WOCJ, 1210, Jamestown, N. Y.
 KFLV, 1410, Rockford, Ill.
 KBTM, 1290, Parkgould, 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.
 KGDZ, 1200, Ferguson 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—WCGM, 1210, Mississippi City, Miss.
 3:00-3:20—WRDW, 1500, Augusta, Ga.
 WBY, 1200, Green Bay, Wis.
 WKA, 1310, El Paso, Texas.
 3:10-3:30—WKAQ, 1420, San Juan, P. R.
 WJMS, 1420, Ironwood, Mich.
 KLUF, 1370, Galveston, Texas.
 3:20-3:40—WVSC, 1360, Charleston, S. C.
 WEDC, 1210, Chicago, Ill.
 KFSM, 1310, El Paso, Texas.
 3:30-3:50—WBIJ, 1440, Greensboro, N. C.
 WHFC, WKBI, WEHS, 1420, Cicero, Ill.
 KGGK, 1370, San Angelo, Texas.
 3:40-4:00—WCOA, 1340, Pompano, Fla.
 WSBC, 1210, Chicago, Ill.
 KFPB, 1310, Greenville, Texas.
 3:50-4:10—WQBC, 1360, Vicksburg, Miss.
 KFIZ, 1420, Fond du Lac, Wis.
 KMAC, 1370, San Antonio, Texas.
 4:00-4:20—WBDO, 580, Orlando, Fla.
 WEBQ, 1210, Harrisburg, Ill.
 KPYO, 1310, Lubbock, Texas.
 4:10-4:30—WVNB, 1420, Memphis, Tenn.
 WMPD, 1500, Lapeer, Mich.
 KONO, 1370, San Antonio, Texas.
 4:20-4:40—WQAM, 560, Miami, Fla.
 WHBF, 1210, Rock Island, Ill.
 KFGQ, 1310, Boone, Iowa.
 4:30-4:50—WDAJ, 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—WCOC, 880, Meridian, Miss.
 WKBV, 1500, Connersville, Ind.
 5:00-5:20—WODX, 1410, Mobile, Ala.
 WTAX, 1210, Springfield, Ill.
 KGBX, 1310, Springfield, Mo.
 5:10-5:30—WTOC, 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, Manitowoc, 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

THE 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.

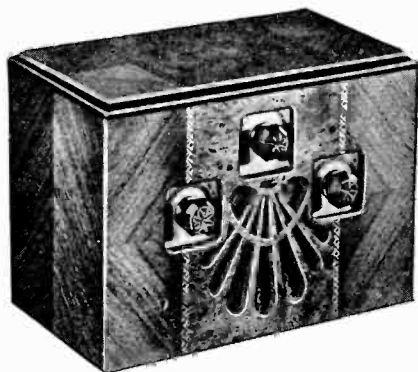
Practically all of the sets now being offered have a short wave switching arrangement so that police, airplane, ship and amateur calls can be received in addition to the regular broadcasts. Automatic volume control is found in some receivers and tone control as well.

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.

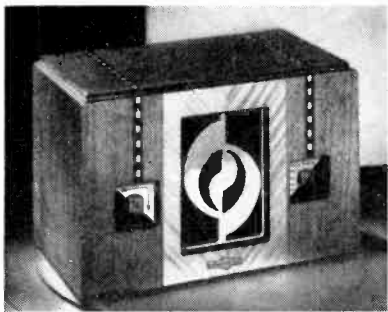
The Circuits

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.*

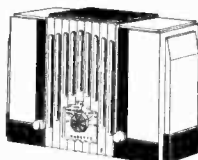


*Majestic Model 411
Grigsby-Grunow Co., Inc.*

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



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.

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.

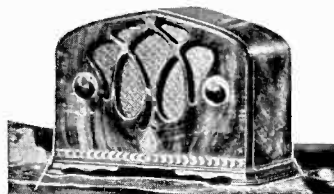
RCA Victor model R-17; \$12.95; 4-tube tuned radio frequency; tubes used: -36, -37, -38 and -39; uses 110 volts a.c. or d.c.; receives regular broadcasts.

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,

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.



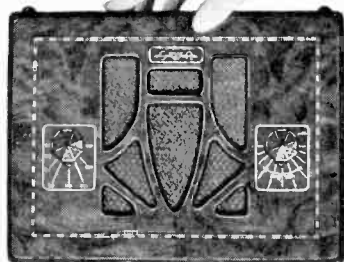
Philco Model 54-C

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

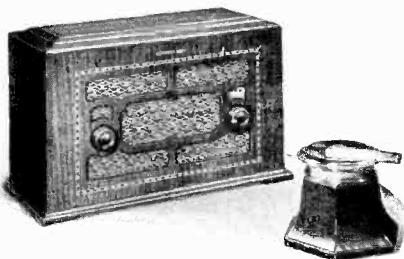
Sparton model 61; \$24.95; 5-tube superheterodyne; -78 1st detector and oscillator, -78 i.f., -75 2nd detector and a.v.c., -43 power output, and 25Z5 rectifier, automatic volume control, 110 volts a.c. or d.c.; regular broadcasts, and short waves down to 60 meters; also same model in a deluxe cabinet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

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 heterodyne 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.

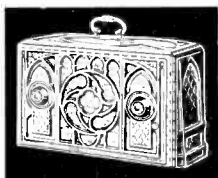
The February Issue, No. 66 contained . . .

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.



RCA-Victor Model R-22-S

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 case 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"

IF 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

AS 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 VONF, 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.

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.

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

ALL 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, WLBF, 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, KMGF, 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-spout 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, Clarenville, 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 Pecamp, 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, VPN, 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, WGNY, 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 keys."

"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 W3XK."

"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.



SENOR 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. Lively; 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, Pointoise, 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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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: P o n t o i s e, 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 Sious 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

READERS 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*

AS 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 for them.

GMT am	AST am	EST am	CST pm	MST pm	PST pm	21.451	13.93	W8XK			
5:00	1:00	12:00	11:00	10:00	9:00	14.102	21.26	YV2AM (Sunday)			
9.510	31.53	GSB						(Start a half hour later)			
11.750	25.51	GSD				9.510	31.53	GSB			
15.140	19.81	GSF				9.585	31.28	GSC			
6.140	48.83	W8XK (for 30 minutes)				11.750	25.51	GSD			
6.100	49.15	W9XF				11.865	25.27	GSE			
		(Starts half hour later)				17.770	16.88	GSG			
9.585	31.28	VK2ME (Sunday)									
GMT am	AST am	EST am	CST am	MST am	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			
						17.761	16.88	PHI (Except Tuesday, Wednesday)			
						6.005	49.93	VE9DR (Except Sunday)			
						6.092	49.22	VE9GW (Monday, Thursday)			
						9.560	31.36	W1XAZ			
						21.451	13.93	W8XK			
						14.102	21.26	YV2AM (Sunday)			
								(Starts a half hour later)			
						9.585	31.28	VK2ME (Sunday)			
GMT pm	AST am	EST am	CST am	MST am	PST am	GMT pm	AST am	EST am	CST am	MST am	PST am
15:00	11:00	10:00	9:00	8:00	7:00	15:00	11:00	10:00	9:00	8:00	7:00
15.190	19.73	DJB				11.750	25.51	DJD			
9.510	31.53	GSB				9.585	31.28	GSC			
11.750	25.51	GSD				11.750	25.51	GSD			
11.865	25.27	GSE				17.770	16.88	GSG			
15.120	19.83	HVJ (for 30 minutes)				15.234	19.68	Pontoise			
15.234	19.68	Pontoise				6.005	49.93	VE9DR (Except Sunday)			
6.092	49.22	VE9GW (Monday, Thursday)				9.585	31.28	VK2ME (Sunday)			
9.560	31.36	W1XAZ				9.560	31.36	W1XAZ			
21.451	13.93	W8XK				21.451	13.93	W8XK			
15.204	19.72	W8XK				14.102	21.26	YV2AM (Sunday)			
								(Starts half hour later)			
						11.174	26.83	CT3AQ (Sunday)			
GMT pm	AST pm	EST am	CST am	MST am	PST am	GMT pm	AST pm	EST am	CST am	MST am	PST am
16:00	12:00	11:00	10:00	9:00	8:00	16:00	12:00	11:00	10:00	9:00	8:00
11.174	26.83	CT3AQ (Sunday)				15.190	19.73	DJB			
15.190	19.73	DJB				11.750	25.51	DJD			
9.510	31.53	GSB				9.585	31.28	GSC			
9.585	31.28	GSC				11.750	25.51	GSD			
11.750	25.51	GSD				11.865	25.27	GSE			
17.770	16.88	GSG				6.005	49.93	VE9DR (Except Sunday)			
6.092	49.22	VE9GW (Sun., Mon., Thurs.)				9.585	31.28	VK2ME (Sunday for 30 minutes)			
9.560	31.36	W1XAZ				6.060	49.48	VQ7LO			
15.258	19.65	W2XE				9.560	31.36	W1XAZ			
9.585	31.28	W3XAU				21.451	13.93	W8XK			
21.451	13.93	W8XK				15.204	19.72	W8XK			
14.102	21.26	YV2AM (Sunday for 30 minutes)						(Start 30 minutes later)			
						6.272	47.80	H11A			
						11.800	25.40	I2RO			
						11.898	25.20	Pontoise			
GMT pm	AST pm	EST pm	CST am	MST am	PST am	GMT pm	AST pm	EST pm	CST am	MST am	PST am
17:00	1:00	12:00	11:00	10:00	9:00	17:00	1:00	12:00	11:00	10:00	9:00
15.190	19.73	DJB				11.750	25.51	DJD			
9.510	31.53	GSB									

9.585	31.28	GSC (for 30 minutes)	9.560	31.36	W1XAZ
11.865	25.27	GSE (for 30 minutes)	15.320	19.57	W2XAD (Sunday)
17.770	16.88	GSG (for 30 minutes)	11.823	25.36	W2XE
6.272	47.80	H1IA	17.772	16.87	W3XAL (Except Saturday)
11.800	25.40	I2RO (for 30 minutes)	6.096	49.17	W3XAL (Saturday)
11.898	25.20	Pontoise	9.585	31.28	W3XAU
6.005	49.93	VE9DR	15.204	19.72	W8XK
6.092	49.22	VE9GW (Sunday)	6.076	49.34	W9XAA
11.710	25.60	VE9JR	9.592	31.25	XETE
6.060	49.48	VQ7LO	GMT pm	AST pm	EST pm
9.560	31.36	W1XAZ	21:00	5:00	CST pm
15.258	19.65	W2XE	9.552	31.38	MST pm
9.585	31.28	W3XAU	15.190	19.73	PST pm
21.451	13.93	W8XK	11.753	25.51	DJA
15.204	19.72	W8XK	6.050	49.56	DJB (for 30 minutes)
(Starts a half hour later)			9.510	31.53	DJD
17.772	16.87	W3XAL (Except Saturday)	9.585	31.28	GSA
GMT pm	AST pm	EST pm	15.140	19.81	GSB (for 30 minutes)
18:00	2:00	1:00	6.272	47.80	GSC
15.190	19.73	DJB	17.772	16.87	GSE (for 30 minutes)
11.753	25.51	DJD	7.139	42.00	H1IA
9.862	30.40	EAQ (Saturday)	11.800	25.40	HJ4ABB (Sunday)
6.050	49.56	GSA	9.520	31.49	I2RO
9.510	31.53	GSB	11.711	25.60	OXY
9.585	31.28	GSC	8.218	36.36	Pontoise
15.140	19.81	GSF	5.996	50.00	Rabat (Sunday)
6.272	47.80	H1IA	6.005	49.93	RV59
11.800	25.40	I2RO	6.092	49.22	VE9DR
9.488	31.60	SR1 (Tuesday)	11.710	25.60	VE9GW (Thurs., Fri., Sat., Sun.)
6.005	49.93	VE9DR	9.560	31.36	VE9JR
6.092	49.22	VE9GW (Sunday)	11.823	25.36	W1XAZ
11.710	25.60	VE9JR	17.772	16.87	W2XE
6.060	49.48	VQ7LO	6.096	49.17	W3XAL (Except Saturday)
9.560	31.36	W1XAZ	9.585	31.28	W3XAL (Saturday)
17.772	16.87	W3XAL (Except Saturday)	15.204	19.72	W3XAU
9.585	31.28	W3XAU	6.076	49.34	W8XK (for 15 minutes)
21.451	13.93	W8XK	9.592	31.25	W9XAA
15.204	19.72	W8XK	(Start a half hour later)		XETE
6.100	49.15	W9XF (Sunday)	9.592	31.25	CT1AA (Tuesday, Friday)
GMT pm	AST pm	EST pm	11.870	25.25	W8XK
19:00	3:00	2:00	6.140	48.83	W8XK
15.190	19.73	DJB	6.100	49.15	W9XF (Except Saturday)
11.753	25.51	DJD	GMT pm	AST pm	EST pm
9.862	30.40	EAQ (Saturday)	22:00	6:00	CST pm
6.050	49.56	GSA	9.592	31.25	MST pm
9.510	31.53	GSB	11.174	26.83	PST pm
9.585	31.28	GSC	9.552	31.38	CT1AA (Tuesday, Friday)
15.140	19.81	GSF	11.753	25.51	CT3AQ (Tuesday, Thursday)
6.272	47.80	H1IA	7.207	41.60	DJA
11.800	25.40	I2RO	6.050	49.56	DJD
9.520	31.49	OXY	9.585	31.28	EAR58
9.488	31.60	SR1 (Tuesday)	9.580	31.30	GSA (for 30 minutes)
6.005	49.93	VE9DR	7.872	38.47	GSC (for 30 minutes)
6.092	49.22	VE9GW (Sunday)	6.272	47.80	HBL (for 45 minutes) Sunday
11.710	25.60	VE9JR	11.800	25.40	HBP (for 45 minutes) Sunday
9.560	31.36	W1XAZ	9.520	31.49	H1IA
15.320	19.57	W2XAD (Sun., Mon., Wed., Fri.)	5.996	50.00	I2RO
17.772	16.87	W3XAL (Except Saturday)	6.005	49.93	OXY
9.585	31.28	W3XAU	6.092	49.22	RV59
15.204	19.72	W8XK	6.121	48.98	VE9DR
6.100	49.15	W9XF (Sunday for 30 minutes)	11.710	25.60	VE9GW (Thur., Fri., Sat., Sun.)
(Start a half hour later)			9.560	31.36	VE9HX
8.218	36.36	Rabat (Sunday)	17.772	16.87	VE9JR
9.592	31.25	XETE	6.096	49.17	W1XAZ
GMT pm	AST pm	EST pm	11.870	25.25	W3XAL (Except Saturday)
20:00	4:00	3:00	6.140	48.83	W3XAL (Saturday)
9.552	31.38	DJA	6.076	49.34	W8XK
15.190	19.73	DJB	6.100	49.15	W8XK
11.753	25.51	DJD	(Starts 15 minutes past the hour)		W9XAA
6.050	49.56	GSA	6.110	49.00	W9XF (Except Saturday)
9.510	31.53	GSB	(Starts 30 minutes past the hour)		
9.585	31.28	GSC	9.862	30.40	EAQ
15.140	19.81	GSF	GMT pm	AST pm	EST pm
6.272	47.80	H1IA	23:00	7:00	CST pm
7.139	42.00	HJ4ABB (Sunday)	9.592	31.25	MST pm
11.800	25.40	I2RO	11.174	26.83	PST pm
9.520	31.49	OXY	9.552	31.38	CT1AA (Tuesday, Friday)
11.711	25.60	Pontoise	9.862	30.40	CT3AQ (Tues., Thurs. for 30 min.)
8.218	36.36	Rabat (Sunday)	7.207	41.60	DJA
5.996	50.00	RV59	6.050	49.56	EAQ
6.005	49.93	VE9DR	9.510	31.53	EAR58 (for 30 minutes)
6.092	49.22	VE9GW (Sunday)	9.585	31.28	GSA
11.710	25.60	VE9JR	15.140	19.81	GSB
			6.272	47.80	GSC
					GSF
					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 (Thurs., 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	T14NRH
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	21.28	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	T14NRH (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	31.38	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	YV3BC

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 am	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
 KFOR WAAB WABC WBIG WBRC WBT WCAU
 WDAE WDBJ WDDO WDRC WDSU WFBL WFEA
 WGST WHAS WHP WIBW WJAS WLAC WLBW
 WMBG WMT WODX WOKO WORC WQAM WREC
 WSBT WSPA WSJS WSPD WTAQ WTAR WTTA
R—Viennese Ensemble—Walter Logan

CRCT KDYL KFYP KOA KPO KPRC KSD KSTP
 KTBS KVOO WAPI WBEN WCAE WCSH WDAF
 WDAY WFAE WFLA WFLX WKY WHO WIBA
 WIOD WIS WJAR WJAX WJDX WKY WMAQ WMC
 WOI WOC WOW WRC WRVA WSAI WSB WSM
 WSMB WTAG WTAM WWJ WWNC

B—Richard Himber and Ensemble
 KDKA KSO KWCR WBAL WENR WHAM WJZ WLW
 WMAL WREN

ED-6:30 p. m., E-5:30, C-4:30, M-3:30, F-2:30
R—Drake's Drums—Drama Songs

KDYL KFYP KOA KPO KPRC KTBS KTBS WAPI
 WKY WDAY WFAE WFCB WFLA WFBR WGY
 WHO WIBA WJDX WMAQ WMC WOI WOC WSAI
 WSB WSMB WTAG WWJ

ED-6:45 p. m., E-5:45, C-4:45, M-3:45, F-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, F-3:00
B—A Mos 'n' Andy

CRCT KDKA WBAL WBZ WBZA WFLA WGAR WIOD
 WJZ WLW WMAL WPTT WRVA

ED-7:30 p. m., E-6:30, C-5:30, M-4:30, F-3:30
C—Dolph Martin's Orchestra—Travelers Quartet

WABC WCAO WCAU WDRC WFLA WFLX WFEA
 WGR WHEC WHP WICC WJAS WJSV WLBZ WNAC
 WOKO WORC

R—Lum and Abner

WBEN WCAE WCSH WDAF WFAE WEEI WFBR WGY
 WJAR WLW WRC WTAG WTAM

R—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, F-3:45
C—Boake Carter

CKLW WABC WBBM WBT WCAO WCAU WGR
 WHK WJAS WJSV WNAC

R—The Goldbergs

WBEN WCAE WCSH WDAF WFAE 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 WACB WCAU WDRC WFBM
 WGR WHBC WHK WIC WJSV WKBN WMAS
 WNAC WORC WSPD

R—Soconyland Sketches—Drama

WBEN WCAE WCSH WDAF WFAE WEEI WGY
 WJAR WTAG

B—Yesterday and Today

CFCT CRCT KDKA KOIL KSO KWCR KWK WBAL
 WBZ WBZA WCKY WGAR 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
 WCOO WDRC WENR WFBL WFBM WGN WGR
 WHK WJAS WJSV WKRK WNAC WOKO WSPD

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

CKLW KMBC KMOX WABC WADC WCAO
 WCAU WCOO WFBL WGN WGR WHAS WHEC WHK
 WISN WJAS WJSV WKBN WKRC WMT WOKO
 WOW WSPD

R—The Sizzlers—Male Trio

CFCT KDYL KFYP KOA KPO KPRC KSD KTBS
 KVOO WBEN WCAE WCSH WDAF WFAE WFCB
 WFBR WHO WIBA WIOD WIS WJAR WJAX
 WJDX WKY WMAQ WMC WOI 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 KTSA KFOR WAAB
 WABC WBG WBRC WBT WDAE WDBJ WDDO
 WDRC WDSU WFBL WFEA WGST WHAS WHP
 WIBW WIP WISN WJAS WKBN WLAC WLBW
 WMBG WMT WODX WOKO WORC WQAM WREC
 WSBT WSPA WSJS WSPD WTAQ WTAR WTTA
R—Ferde Grofe's Orchestra

WBEN WCAE WCSH WFAE WEEI WFBR WGY
 WJAR WLIT WMAQ WTAM WTIC WTMJ WWJ

B—Gould and Sheffer, 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 Serenaders

CKLW KLZ KRLL KSL KTSA KFOR WABC WACO
 WADC WBG WBRC WBT WCAO WDAE WDBJ
 WDDO WDRC WDSU WFBL WFBM WFEA WGST
 WHAS WHEC WHK WHP WIBW WIP WISN WJAS
 WLAC WLBW WOKO WORC WQAM WREC WSBT
 WSPA WSJS WSPD WTAQ WTTA

R—A. & P. Gypsies

KSD WHEN WCAE WCSH WDAF WFAE WEEI WGY
 WHO WJAR WLIT WMAQ WOC WOW WRC WSAI
 WTAG WTAM WTIC WWJ

B—Sinclair Minstrels

KDKA KFYP KOA KOIL KPRC KSO KSTP KTBS
 KWCR KWK WAPI WBAL WBZ WBZA WDAY WFCB
 WFLA WFLX WGAR WHAM WIBA WIOD WIS WJAX
 WJDX WJZ WKY WLS WLW WMC WOAI WPTT
 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 KTSA KFOR WABC WACO
 WADC WBG WBRC WBT WCAO WDAE WDBJ
 WDDO WDRC WDSU WFBL WFBM WFEA WGST
 WHAS WHEC WHK WHP WIBW WIP WISN WJAS
 WLAC WLBW WOKO WORC WQAM WREC WSBT
 WSPA WSJS WSPD WTAQ WTTA

MONDAY—(Continued)

B — Jack Frost's Melody Moments
 KDKA WBAL WENR WGAR WHAM WJWR WJZ WLWV

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
 WDHO WDOD WDRC WFBL WFBM WFLA WFGT
 WHAS WHFC WHIP WISN WJAS WLAC WLWB
 WMBD WMBG WODX WOKO WORC WQAM WREC
 WSJS WTAZ

R — Contented Program
 KSD WBEN WCAE WDAF WENR WGY WHO WLW
 WOC WTAM WTMJ WJZ

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 KMOX KOMA KSL KTRH
 KTSa KVOR WAAB WABC WACO WADC WBIG
 WBRC WBT WCAO WCCO WDAE WDBJ WDOD
 WDRC WDSU WFBL WFBM WFLA WFGT WHAS
 WHFC WHK WHP WIRW WJCC WJAS WLAC WLWB
 WMBD WODX WOKO WORC WPG WQAM WREC
 WSPD WTAZ

R — Gus Haenschen's Parade of Melody
 KDYL KFI KGHL KGIR KGO KGW KHQ KOA
 KOMO KPRC KSD KSTP KVOO WHEN WCAE WCHS
 WDAY WEAF WEBC WEEI WFAA WFBZ WGY
 WHO WJAR WKY WLIT WLW WMAQ WMC WQAI
 WOC WOW WRC WSB WSM WTAG WTAM WTC
 WTMJ WJZ

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 WFLA WFGT WHAS WHFC
 WHP WIRW WJAS WLAC WLWB 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 — Amos 'n' Andy
 KDYL KFI KGO KGW KHQ KOA KOIL KOMO KPRC
 KSTP KTHS KWK WKY WOC WDAF WENR WFAA
 WHAM WJWR WKY WMAQ WMC WQAI WREN WBS
 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 WBIG WBRB WBT WCAO
 WCAU WCCO WDAE WDBJ WDOD WDRC WDSU
 WFBL WFBM WFLA WFGT WHAS WHFC WHP
 WIRW WJZ WJAS WKBN WLAC WLWB WMBD
 WMT WODX WOKO WORC WQAM WREC WSBT
 WSJS WSPD

R — Buddy Rogers and Orchestra
 WCAE WEAF WFBZ WFLA WIOD WIS WRC WSAI
 WTAG WVNC

B — Major, Sharp and Minor—Girls Trio
 CFCF KDKA KDYL KFI KFYZ KGO KGW KHQ
 KOA KOIL KOMO KSO KSTP KWCR KWK KYW
 WBAL WEBC WFAA WGAR WHAM WIBA WJZ
 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 WFBZ WJAR WRC WTAG WTC

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
 WJZ 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 WFLA WFGT WHAS
 WHP WIRW WJZ WJAS WLAC WLWB WLWB
 WMBG WMT WODX WOKO WORC WQAM WREC
 WSBT WSFA WSJS WSPD WTAQ WTAZ WVVA

ED-6:30 p. m., E-5:30, C-4:30, M-3:30, P-2:30
R — Mid-Week Hymn Sing
 KDYL KFYZ KGIR KPO KPRC KTBS KTHS KVOO
 WDAY WEAF WFAA WFI WGY WHO WIBA WIS
 WJAX WJDX WMAQ WQAI WOC WRC WSAI WTAG
 WVNC

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 WFLA WGT WHAS WISN WKBN WLAC
 WLWB WLWB WMBG WMT WODX WOKO WORC
 WQAM WREC WSFA WSJS WSPD WTAQ WVVA

R — Shirley Howard—Songs
 KDYL KFYZ KOA KPO KPRC KSD KSTP KTBS
 KTHS WCKY WDAY WEAF WEBC WEEI WFAA
 WFBZ WGY WHO WJAR WJDX WKY WMAQ WQAI
 WOC WOW WSAI WSM WTAG WJZ

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 WFLA WFGT
 WHFC WHP WISN WJAS WKBN WLAC WLWB
 WLWB WMBG WMT WODX WOKO WQAM WQAM
 WREC WSFA WSJS WSPD WTAQ WTAZ WVVA

R — The Sizzlers—Male Trio
 CFCF KFSB KHQ KOA KOMO KSD KTBS KVOO
 KYW WAB WCKY WDAF WDAY WEAF WEEI
 WFBZ WFI WHO WIBA WJAR WJDX WMC WQAI
 WOC WSAI WSM WSMB WTAG WTAM

B — Amos '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 WFLA WGT WHAS WHK WHP WISN WJAS
 WKBN WLAC WLWB WMBG WODX WOKO WORC
 WQAM WREC WSFA WSJS WSPD WTAQ WTAZ

B — National Advisory Council on Radio in Education
 KDKA KECA KEX KFSB KFYZ KGA KGHL KGIR
 KJR KOA KOIL KPRC KTAR KTBS KTHS KVOO
 KWCR KWK KYA WAPI WBAP WBEZ WBZA WCKY
 WFLA WIBA WIS WJDX WJZ WMAL WQAI WPTF
 WREN WSMB WVNC

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 WHFC WJWS
 WYAC

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 KPIC KTBS WBAL WBAP 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 Carlile
 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 WFLA WFGT WHK
 WHP WJAS WLAC WLWB WLWB WMBG WMT
 WODX WOKO WORC WPG WQAM WREC WSBT
 WSFA WSPD WTAQ WTAZ

R — Blackstone; Sanderson-Crumit
 WBEN WCAE WCHS WEAF WEEI WFI WGY WJAR
 WRC WTAG WTAM WJZ

B — Pastorate—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 WFLR WFI WGY WHO WJAR WKY WMAQ
WOAI WOC WOW WRC WSAI WTAG WTAM WTMJ
WVWJ

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-7:45, M-5:45, P-4:45

C — Poel's Gold — David Ross

CKLW KFH KLZ KMBC KMOX KOMA KRIL KSL
KTSa KVOB WAAB WABC WACO WADC WBIG WBT
WCAO WCAU WCCO WDBJ WDOD WDRC WDSU
WFBL WFBN WFEA WGST WHAS WHK WHP WISN
WJAS WKBN WLAC WLWB WLBZ WMBG WMT
WODX WOKO WORC WPG WQAM WSBT WSFA
WSJS WSPD WTAQ WTAR WVVA

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 — Ben Bernie and Orchestra

KFYR KOA KPRC KSD KSTP WBAP WBEN WCAE
WFSH WDAY WEAF WFLR WFBW WFI WGY WHO
WJR WKY WLS WLW WMC WOAI WOC WOW
WRC WRVA WSM WSMB WTAG WTAM WTMJ WVWJ

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 KRIL
KTRH KVOB WAAB WABC WACO WADC WBIG WBR
WBT WCAO WCAU WCCO WDAE WDOD WDRC
WDSU WEAN WFBL WFBN WFEA WGST WHAS
WHK WHP WIBW WISN WJAS WKBN WLAC WLWB
WLBZ WMT WODX WOKO WORC WPG WQAM
WSFA WSJS WSPD WTAQ

R — Texaco Fire Chief Program

KDYL KFI KFSD KFYR KGHJ KGR KOO KGW
KHQ KOA KOMO KPRC KSD KSTP KTR KTBS
KVOD WBAP WBEN WCAE WCSH WDAE WDAY
WEAF WECB WEEL WFBW WFI WFLA WGY WHO
WIBA WIOD WIS WJAR WJAX WJDX WKY WLW
WMAQ WMC WOAI WOC WOW WPTF WRV WRVA
WSB WSM WSMB WTAG WTAM WTMJ WVWJ WVNC

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
KTSa KVOB WAAB WABC WACO WADC WBIG
WBRB WBT WCAO WCAU WCCO WDBJ WDOD
WDRC WDSU WFBL WFBN WFEA WGST WHAS
WHK WHP WIBW WISN WJAS WKBN WLAC
WLWB WLBZ WMBG WMT WODX WOKO
WORC WQAM WRFC WSJS WSPD WTAQ

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 KFPY KPRC KGB
KHJ KLZ KMBC KMJ KMOX KOIN KOL KOMA
KSCJ KSL KTAT KTHH KTSa KVI KWG WABC
WADC WBBM WBRB WBT WCAH WCAU WCCO
WDRC WEAN WFBL WFBN WGST WHAD WHAS
WHK WHP WIBW WJAS WJSV WKBW WKRC
WLAC WLWB WMT WNAC WOKO WOWO WREC
WTR

R — National Radio Forum

KDYL KFI KFSD KFYR KGHJ KGR KGO KGW
KHQ KOA KOMO KSD KSTP KTR KTBS KTHS
KVOD KYW WBN WCAE WCSH WDAY WEAF
WECB WEEL WFBW WFI WFLA WGY WIBA WIOD
WIS WJAR WJAX WJDX WKY WMC WOW WPTF

WRC WRVA WSAI WSB WSM WTAG WTAM WTMJ
WVWJ WVNC

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
KTSa KVOB WAAB WABC WACO WADC WBIG
WBRB WBT WCAO WCCO WDAE WDBJ WDOD
WDRC WDSU WFBL WFBN WFEA WGST WHAS
WHK WHP WIBW WIP WJAS WKBN WLAC WLWB
WLBZ WMBG WMT WODX WOKO WORC WPG
WQAM WREC WSJS WSPD

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 — Little Jack Little

CKLW KFH KLZ KMBC KOMA KSL KTSa KVOB
WABC WACO WADC WBIG WBRB WBT WCAO
WCCO WDAE WDBJ WDOD WDRC WDSU WFBL
WFBN WFEA WGST WHAS WHK WHP WIBW
WIP WJAS WKBN WLAC WLWB WMBG WMBG
WMT WODX WOKO WORC WQAM WSJS WSPD
WVVA

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 WECB
WENR WFLA WHAM WIBA WIOD WIS WJDX WJZ
WMAL WMC WREN WRVA WSB WSM WSMB WSYR
WVNC

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 KGHJ KGR KOA KPO KPRC KTBS
KTHS KVOD WDAY WEAF WFBW WGY WHO WIBA
WIS WJAR WJDX WMAQ WOAI WOC WORC WSAI
WSB WSM WVWJ WVNC

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 KMBC KOMA KSL KTRH KTSa KVOB
WAAB WABC WBIG WBRB WBT WCAO WCAU
WDAE WDBJ WDOD WDRC WDSU WEAN
WFBL WFEA WGST WISN WJAS WKBN WKBW
WLAC WLWB WMBG WMT WODX WOKO WORC
WQAM WREC WSBT WSFA WSJS WTAQ WTCO

R — John Pierce, Tenor

KDYL KFI KFYR KPO KPRC KSD KTBS WBN
WCKY WCSH WDAY WEAF WECB WEEL WFAA
WFBW WFI WGY WHO WIS WJAR WJDX WKY
WMAQ WOAI WOC WOW WRC WSAI WSM WTAG
WVWJ

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 KFB KFH KLZ KOMA KSL KTRH KTSa
KVOB WABC WACO WADC WHIG WBRB WBT
WCAO WCAU WCCO WDAE WDBJ WDOD WDOD
WDRC WDSU WEAN WFBL WFEA WGR WGST
WHAS WHK WCC WISN WJAS WKBN WLAC
WLWB WMBG WMT WNAC WODX WOKO WORC

WEDNESDAY—(Continued)

WQAM WREC WBSA 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 WBAW WDAY WHAM WIBA WIS WJDX
WJZ WKY WMAI WOAI WREN WRVA WSB WSM
WSMB WSYR WYWC

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

CFCE CRCT KSD WBNB WCAE WCKY WCSH
WDAF WFAF WGEI WPRR WGY WHO WJAM WJZ
WLS WOC WOW WRC WSAI WTAG WTAR WTIC
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 KFBK KFH KMBC KOMA KTRH
KTSa KVOR WABC WACO WADC WBIG WBT
WCAO WCAU WDBJ WDBO WDDO WDRC WDSU
WEAN WFBL WFEA WGR WGST WHCQ WHK WICC
WJAS WJWZ WLAC WLWB WMBG WNAC WODX
WOKO WORC WPG WQAM WREC WSBT WBSA
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 Goodman's Orchestra

CKLW KLRA KRLD KTRH KTSa WABC WACO
WADC WBIG WBRB WBT WCAH WCAO WCAU
WDAF WDBJ WDBO WDDO WDRC WDSU WEAN
WFBL WFEA WGLC WGST WHAS WHK WJAS
WJWZ WKWB WKRC WLAC WLWB WMAI WMBG
WNAC WOKO WORC WOW WQAM WREC WBSA
WSPD WTAR WTOC

R — Ferde Grofe's Orchestra

KSD KSTP WBNB WCAE WCSH WDAF WFAF WEEI
WGY WJAR WLIT WMAQ WRC WTM WTC WWJ
WWJ

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

C — Vera Van — Conalto

CFRB CKLW KFH KLZ KMBC KMOX KOMA KRLD
KSL KTSa KVOR WABC WACO WADC WBIG WBRB
WBT WCAO WCAE WDAE WDBJ WDBO WDDO
WDRC WDSU WEAN WFBL WFBM WFEA WGST
WHCQ WHK WHP WIBW WICC WJAS WJWZ WKWB
WLAC WMBG WMT WNAC WOKO WORC WQAM
WSBT WBSA WSJS WSPD WTAQ WTAR WTOC
WWVA

R — Major, Sharp and Minor, Girls Trio

KFYR WBNB WCAE WCSH WDAF WDAY WFAF
WPRR 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
KTSa WABC WADC WBIG WBT WCAO WCAU
WCCO WDRC WEAN WFBL WFBM WGN WHK
WJAS WJWZ WKWB WKRC WNAC WOKO WORC
WOW WSPD

R — One Man's Family — Sketch

KFYR KPRC KSD KTBS KYOO KYW WBNB WCAE
WCSH WDAF WDAY WFAF WEBC WEEI WFAA

WFBR WFLA WIBA WIOD WIS WJAR WJAX WJDX
WKY WOAI WOW WPC 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 KFFY KFRG KGB
KHJ KLRA KLZ KMBC KMJ KMOX KOH KOIN
KOL KOMA KRLD KSCJ KSL KTRH KTSa KYI
KVOR KWG WABC WADC WBIH WBRB WBT
WCAH WCAO WCAU WCCO WDAE WDBJ WDBO
WDDO WDRC WDSU WEAN WFBL WFBM WFEA
WGN WGST WHAS WHCQ WHK WHP WIBW WICC
WJAS WJWZ WKWB WKRC WLAB WLAC
WLWB WLWB WMBD WMBG WMT WNAC WNOX
WODX WOKO WORC WOW WPG WQAM WREC
WSPD WTAR WTOC

R — Corn Cob Pipe Club

KDYL KFI KFYR KGIL KGIR KGO KGW KHQ
KOA KOMO KSD KSTP WBNB WCAE WCSH WDAF
WDAY WFAF WEBC WEEI WENR WFBR WGY
WHO WIBA WJAR WLIT WLW WOC WOW WRC
WRVA WTAG WTAM WTC WTMJ WWJ

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

C — Frigidaire Program

CFRB CKAC CKLW KDB KERN KFBK KFH KFFY
KPRC KGB KHJ KLZ KMBC KMJ KMOX KOIN
KOL KOMA KRLD KSCJ KSL KTRH KTSa KYI
KWG WABC WADC WBBM WCAH WCAO WCAU
WCCO WDAE WDBJ WDBO WDDO WDRC WDSU
WEAN WFBL WFBM WGST WHAD WHAS WHCQ
WHK WICC WJAS WKWB WKRC WLAC WMBD
WNAC WOKO WOW WQAM WREC WSPD WTAR

R — Capt. Dobbs's Ship of Joy

CFCE KDYL KFI KFYR KGO KGW KHQ KOA
KOMO KPRC KSD KSTP KTBS KTHS KVOO WREN
WCAE WCSH WDAY WFAF WEBC WEEI WFAA
WFBR WFLA WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WMAQ WMC WOA WOC WOW
WRC WRVA WSAI WSB WSM WSMB WTAG WTAM
WTC 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 J. 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 KOIL KOMO
KSO KSTP KTBS KWCR KWK WAPI WBAL WCKY
WDAY WEBC 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 WDBO WDDO WDRC
WEAN WFBL WFEA WGST WHCQ WHK WHP
WICC WKWB WLAC WLWB WMBG WNAC WODX
WOKO WORC WQAM WREC WSJS WSPD 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 WEBC 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 KMTA KYOR
WAAB WABC WBG WBRC WBT WDAE WDBJ
WDBO WDDO WDSU WEAN WFEA WGST WHAS
WHP WIBW WICC WISN WJAS WJSV WKBN WLAC
WLWB WMBG WMT WOKO WORC WQAM WREC
WSBT WSPA WSJS WSPD WTAQ WTOG WWVA
R — Richard Himber and Orchestra
KDYL KFYR KOA KPO KPRC KSD KSTP KTBS
KTBS KVOD WAPI WVEN WCKY WDAY WFAE
WFCB WEEL WFAA WFBR WFL WGY WHO WIBA
WIS WJAR WJAX WJDX WKY WMC WQAI WOC
WOW WRC WSAI WSB WSM WSMB WTAG 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 — Isham Jones and Orchestra
CKLW KFH KMBC KOMA KSL KTRH KTSa KYOR
WAAB WABC WBBM WBIG WBR* WBT WCAO
WCAO WDAE WDBJ WDBO WDDO WDRC WDSU
WEAN WFBL WFEA WGST WHAS WISN WKBN
WLAC WLWB WMBG WMT WODX WOKO WORC
WQAM WREC WSPA WSJS WSPD WTAQ WTOG
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 — Amos '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 WVEN WFAE WFL WJAR WMAQ WSAI WTAG
C — Dance Time, See Tuesday
B — Concert Footlights
CFCE CRCT KDKA KGO KGW KOA KOIL KOMO
KPRC KSO KTBS KVOD KWCR KWK WAPI WBAL
WRAP WBZ WBZA WCKY WDAY WHAM WIBA
WIS WJDX WJZ WKY WMAL WQAI 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 — Sigmond Spaeth
KDKA KDYL KFSB KFYR KGO KOA KOIL KPRC
KSO KWCR KWK WBAL WBAW 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
CFCE CRCT KDYL KFL KFYR KGO KGW KHQ
KOA KOMO KPRC KSD KSTP KTAR KTHS KVOD
WAPI WBAW WVEN WCAE WCHS WDAE WDAY
WFAE WFCB WEEL WFBR WFL WFLA WGY WHO
WIOD WJAR WJAX WJDX WKY WLV WMAQ
WMC WQAI 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 KMBC KMOX KOMA KSL KTSa
KYOR WAAB WABC WACO WADC WDBJ WBRC
WBT WCAO WCAO WCO WDAE WDBJ WDBO
WDDO WDRC WFEA WFBL WFBM WFLA WGST
WHAS WHCQ WHK WHP WICC WJAS WKBN WLAC
WLWB WMBG WMT WODX WOKO WORC WQAM
WREC WSBT WSPA WSJS WSPD WTAQ WTAR
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 KRLL
KSL KTSa KYOR WABC WACO WADC WBIG WBRC
WBT WCAO WCAO WDAE WDBJ WDBO WDDO
WDRC WDSU WEAN WFBL WFEA WGST WHAS

WHP WIBW WICC WISN WJAS WJSV WKBN WLAC
WLWB WMBG WMT WNAO WOKO WQAM WSBT
WSPA WSJS WSPD WTAQ WTAR WTOG WWVA
R — Maxwell House Show Boat
KPRC KSD KSTP KTHS WAPI WBAW WVEN WCAE
WCKY WCHS WDAE WFAE WEEL WFBR WFL
WFLA WGY WHO WIOD WIS WJAR WJAX WJDX
WKY WMAQ WMC WQAI WOC WOW WRV WRC
WSA WSB WSM WSMB WTAG WTAM WTMJ WWJ
WWNC

B — Death Valley Days — Drama
KDKA KOIL KWK WBAL WBZ WBZA 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 KRLL
KSL KTSa KYOR WABC WACO WADC WBIG WBRC
WBT WCAO WCAO WDAE WDBJ WDBO WDDO
WDRC WDSU WEAN WFBL WFEA WGST WHAS
WHP WIBW WICC WISN WJAS WJSV WKBN WLAC
WLWB WMBG WMT WNAO WOKO WQAM WSBT
WSPA WSJS WSPD WTAQ WTAR WTOG WWVA
B — Wayne King and Orchestra
KDKA KOIL KSO KWCR KWK WBAL WBZ WBZA
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 KRLL
KTSa KYOR WABC WACO WADC WBIG WBRC
WCO WDAE WDBJ WDBO WDDO WDRC WDSU
WFBL WFHM WFEA WGST WHAS WHK WHP
WIBW WISN WJAS WJSV WLAC WLWB WMBG
WOKO WORC WQAM WREC WSBT WSPA WSJS
WSPD WTAQ WTOG

R — Al Jolson; Paul Whiteman's Orchestra
KDYL KFL KFYR KGO KGW KHQ KOA KOMO
KPRC KSD KSTP KTBS KTHS WAPI WBAW WVEN
WCAE WCHS WDAE WDAY WFAE WFCB WEEL
WFBR WFL WFLA WGY WHO WIBA WIOD WIS
WJAR WJAX WJDX WKY WLW WMAQ WMC WQAI
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 Husling, See Tuesday
B — Echoes of Palisades — Archer Gibson, Organist
KDKA KSO KWCR KLV WBAL WBZ WBZA 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
CFRB CKLW KFAB KFH KLZ KMBC KOMA KSL
KTRH KTSa KYOR WAAB WABC WACO WADC
WBIG WBRC WBT WCAO WCO WDAE WDBJ
WDBO WDDO WDRC WDSU WEAN WFBL WFBM
WFEA WGST WHAS WHCQ WHP WIBW WICC
WIP WJAS WJSV WKBN WLAC WLWB WMBD
WMBG WMT WODX WOKO WORC WPG WQAM
WREC WSJS WSPD WTOG

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 — 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
CFRB CKLW KFAB KFH KLZ KMBC KMOX KSL
KTRH KTSa KYOR WABC WACO WADC WBIG
WBRC WBT WCAO WCO WDAE WDBJ WDBO
WDDO WDRC WFEA WFBL WFBM WFLA WGST
WHAS WHCQ WHK WHP WIBW WICC WJAS
WKBN WLAC WLWB WMBD WMBG WMT WNAO
WODX WOKO WORC WPG WQAM WREC WSBT
WSJS WSPD WTAR WTOG

R — Helen Morgan — Songs
KSD WVEN WCAE WCHS WDAE WFAE WEEL
WFBR WFL WGY WHO WJAR WOC WOW WSAI
WTAG WTAM

B — U. S. Army Band
CFCE CRCT KDKA KDYL KFYR KOA KOIL KPO
KSO KSTP KTBS KVOD KWCR KWK WBAL WBAW
WBZ WBZA WCKY WDAY WFCB WFLA WGAR

THURSDAY—(Continued)

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

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
KTSa KYOR WABC WADC WBIG WBRC WBT
WCAO WDAE WDBJ WDBO WDOD WDRS WEAN
WFBL WFEA WGST WHAS WIIP WIBW WICC WIP
WISN WJAZ WJSY WKBN WLAC WLBW WMBG
WMT WODX WOKO WORC WQAM WREC WSBT
WSFA WSJS WSPD WTAQ WTAR WTOC WVVV

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

R — Morton Gould and Bert Sheffer, Piano Duo
KFYR KOA KPO KTBS KVOC WDAF WDAY WFAF
WFBP WFI WIBA WIS WJAR WJDX WMC WOAI
WSB WSM WSMB WTAQ WWJ WWCN

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
KVOC WBSN WCKY WDAY WFAF WIBC WFAA
WFBP 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 — Rollickers Quartet
CFCE KDYL KOA KOMO KND KTBS KVOC WDAF
WFAF WENR WFBP WGY WHO WJAX 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 WBSN WFAF WJAR WMAQ WTAG
B — George Olsen and Orchestra
CFCE KDKA KDYL KFYR KOA KOIL KPO KSO
KTBS KWCR KWK WBAL WBAF WCKY WDAY
WHAM WIBA WIS WJDX WJZ WKY WLW WMAL
WMC WRVA WSM WSMB WWCN
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 KPRC KSD KTBS KTHS KVOC
KYW WBSN WCAE WCSH WDAF WFAF WFCB
WBEI WFAA WFBP WGY WHO WJAX WKY WLIT
WOAI WOC WOV WRC WSAI WTAG WTAM WVIC
WTMJ WWJ

B — Nestle's Program with Ethel Shutta
KDKA KWK WBAL WBZ WBZA WCKY WGAR
WHAM WJR WJZ WLS WMAI 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 KTSa KYOR WAAB
WABC WACO WADC WHBG WBT WCAO WCAU
WCCO WDAE WDBJ WDOD WDOD WDRS WFBL
WFEA WGST WHAS WHFC WHP WICC WISN WJAZ
WLAC WLBW WMBG WMT WODX WOKO WQAM
WREC WSBT WSFA WSJS WSPD WTAQ WVVV
B — Potash and Perlmutter, 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 WBZA
WCKY WFLA WHAM WIS WJDX WJR WJZ WLS
WMAL WREN WSB WSM WSMB WSYR WWCN

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

R — Fred Allen's Revue
KSD WBSN WCSH WFAF WEEI WFBP WGY WJAR
WLIT WLW WMAQ WRC WTAG WTAM WVIC WWJ
B — Phil Harris and Orchestra
KDKA KDYL KFI KGHJ KGIR KGO KGW KHQ
KOA KOIL KOMO KSO KWCR KWK WAPI WBAL
WBZ WBZA 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
WHFC WHP WICC WJAS WJSY WLBW WMAA
WNAC WOKO WPG

R — Pond's Program

KSD WBSN WCAE WCSH WDAF WFAF WENR
WFBP WGY WHO WJAR WLIT WOC WOW WRC
WSAI WTAG WTAM WVIC WWJ

B — Armour Program with Phil Baker

KDKA KDYL KOA KOIL KPRC KSO KSTP KWK
WAPI WBAL WBZ WJAZ WIBC WFAA WGAR
WHAM WIOD WJAX WJR WJZ WKY WMAQ WMC
WOAI WREN WRVA WSB WSM WSMB WTMJ WWCN

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 KFI KFPY KPRC KGB KIJ
KLRA KLZ KMBC KMJ KPRC KOI KOIN KOL
KOMA KRIJ KSL KTRH KTSa KYI KWG WABC
WADC WBRC WBT WCAO WCAE WCCO WDBJ
WDRS WDSU WEAN WFBL WFBM WGN WGST
WHAS WHFC WHK WISN WJAS WJSY WKBW
WKRC WLAC WLBZ WMBG WMT WNAC WOKO
WOWO WPG WRE WRC WSPD WTAR WTOC WXYZ

R — U. S. Navy Band

CFCE CRCT KSD WBSN WCAE WCSH WDAF
WFAF WEEI WENR WFBP WFLA WGAR WGY
WHO WIOD WIS WJAX WLIT WOC WOW WRC
WRVA WTAG WTAM WVIC WWJ WWCN

B — First Nighter—Drama

KDKA KDYL KFI KGO KGW KHQ KOA KOIL
KOMO KPRC KSTP WAPI WBAL WBZ WBZA WCKY
WBCN 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 WBSN WCAE WDAF WFAF WENR WFBP
WGY WHO WKBK WLIT WLW WOC WRC WTAM
WVIC WTMJ

B — Aldo Ricci and His Phantom Strings

CFCE CRCT KDKA KDYL KFI KFYR KGO KGW
KHQ KOA KOIL KOMO KPRC KSO KSTP KTBS
KWK WBAL WCKY WDAY WIBC WFAA WFLA
WGAR WHAM WIBA WIOD WIS WJAX WJDX WJR
WJZ WKY WMAI WMC WOAI WREN WRVA WSB
WSM WSMB WSYR WWCN

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
KTSa KYOR WABC WACO WADC WBIG WBRC
WBT WCAO WCAU WCCO WDAE WDBJ WDBO
WDOD WDRS WEAN WFBL WFBM WFEA WGST
WHAS WHFC WHK WHP WIBW WICC WISN WJAZ
WLAC WLBW WMBD WMT WODX WOKO WQAM
WREC WSBT WSPA WSJS WSPD WTAQ WVVV

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 WBAI 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 Himber, See Thursday

B — O'Leary's Irish Minstrels

KOIL KSO KWCR KWK WBAI WEZ 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 KTSa KVOR WAAB WABC WADC WBIG WBRC WBT WCAO WCOO WDAE WDBJ WDBO WDOD WDRC WEAN WFBL WFEA WFGT WHAS WHK WHP WICC WISN WJAS WJWV WLAC WLWB WLWB WMBG WMT WODX WOKO WORC WQAM WREC WFSa WJSJ WSPD WTAQ WTAR WTOG WWVA

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 WBen WCAE WDAF WEAF WEEI WFBR WGY WHO WJAR WOC WSAI WTAG

B — Ross Peardon, Baritone

KDKA KFYR KOA KPO KPRC KTBS KTHS KVoo KWCR KWK WBAI WCKY WDAY WFCB WFLA WGAR WIBA WIOD WJAX 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 KTSa KVOR WAAB WABC WADC WABC WBIG WBRC WBT WCAO WCOO WDAE WDBJ WDBO WDOD WDRC WEAN WFBL WFEA WFGT WHAS WHK WHP WICC WISN WJAS WJWV WLAC WLWB WLWB WMBG WMT WODX WOKO WORC WQAM WREC WFSa WJSJ WSPD WTAQ WTAR WTOG

B — Annie, Judy and Zeke, Hillbilly Songs

KDKA KFI KFYR KGO KGW KHQ KOA KOIL KOMO KPRC KSO KTBS KWCR KWK WAPI WBAI WBZ WBA WCKY WENR WFLA WGAR WIBA WIOD WIS WJAX 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 Clemens, Songs

KDYL KFI KGO KGW KHQ KOA KOMO KSD WBen WCAE WDAF WEAF WEEI WFBR WFI WGY WHO WJAR WMAQ WOC WRC WSAI WTAG WTAM WWJ

B — Kallenmeyer's Kindergarten

CFCP KFYR KOIL KGO KTBS KWCR KWK KYW WBAI WBAW 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 WBen WCHS WDAF WEAF WEEI WENR WFBR WFI WGY WJAR WOV WRC WSAI WTAG WTAM WWJ

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

C — Evan Evans, Baritone

CKLW KFH KMBC KMOX KOMA KRLD KTRH KTSa KVOR WABC WADC WBIG WBRC WBT WCAO WCOO WDBJ WDBO WDOD WDRC WEAN WFBL WFBM WFEA WFGT WILDC WHK WHP WICC WIP WJAS WJWV WLAC WLWB WLWB WMBG WMT WNAc WODX WOKO WORC WPG WQAM WREC WSBT WFSa WJSJ WSPD WTAQ WTAR WWVA

R — Frances Langford, Contralto

KSD WBen WDAF WEAF WEEI WFBR WGY WJAR WOV WRC WSAI WTAG WWJ

B — Jack Denny and Orchestra

CFCF CRCT KDKA KDYL KFI KFYR KGO KGW KHQ KOA KOMO KPRC KSTP KTBS KVoo KWCR WBAI WFCB 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

CPRB CKLW KFH KMBC KMOX KOMA KRLD

KTRH KTSa KVOR WABC WADC WBIG WBRC WBT WCAO WCAU WCOO WDBJ WDBO WDOD WDRC WEAN WFBL WFEA WFGT WHK WHP WICC WJAS WJWV WLAC WLWB WLWB WMBG WNAc WODX WOKO WORC WQAM WREC WSBT WFSa WJSJ WSPD WTAQ WTAR WWVA

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 KTSa KVOR WABC WADC WBIG WBT WCAO WCAU WCOO WDAE WDBJ WDBO WDOD WDRC WEAN WFBL WFBM WFEA WFGT WHAS WHK WHP WICC WISN WJAS WJWV WLAC WLWB WLWB WMBG WMT WNAc WODX WOKO WORC WPG WQAM WREC WSBT WFSa WJSJ WSPD WTAQ WTAR WWVA

R — Sous Les Ponts de Paris

KSD WBen WCHS WDAF WEAF 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 WBen WCAE WCHS WDAF WEAF 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 KTSa KVOR WABC WADC WBIG WBRC WBT WCAO WCAU WCOO WDAE WDBJ WDBO WDOD WDRC WEAN WFBL WFBM WFEA WFGT WHAS WHK WHP WIBW WICC WISN WJAS WJWV WLAC WLWB WLWB WMBG WMT WNAc WOKO WORC WQAM WREC WFSa WJSJ WSPD WTAQ WTAR WTOG WWVA

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

R — K-7, Drama

KSD WBen WCAE WCHS WDAF WEAF 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 KTSa KVOR WABC WADC WBIG WBRC WBT WCAO WCAU WCOO WDAE WDBJ WDBO WDOD WDRC WEAN WFBL WFBM WFEA WFGT WHK WHP WIBW WICC WISN WJAS WJWV WLAC WLWB WLWB WMBG WMT WNAc WODX WOKO WORC WQAM WREC WJSJ WSPD WTAQ WTAR WTOG WWVA

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 KTSa KVOR WAAB WABC WADC WBIG WBRC WBT WCAO WCAU WCOO WDAE WDBJ WDBO WDOD WDRC WEAN WFBL WFBM WFEA WFGT WHAS WHK WHP WIBW WICC WISN WJAS WJWV WLAC WLWB WLWB WMBG WMT WODX WOKO WORC WPG WQAM WREC WJSJ WSPD WTAQ WTAR WTOG WWVA

R — B. A. Rolfe and Orchestra

CRCT KDYL KFI KGO KGW KOA KOMO KSD KSTP WBAW WBen WCAE WCHS WDAF WEAF WEEI WFBR WFI WGY WHO WJAR WJAX WJW WMAQ WOAI WOC WOW WPTF WRC WVA WSB WSMB WTAG WTAM WTMJ 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 KTSa KVOR WAAB WABC WADC WBIG WBRC WBT WCAO WCAU WCOO WDAE WDBJ WDBO WDOD WDRC WEAN WFBL WFBM WFEA WFGT WHAS WHK WHP WIBW WICC WJAS WJWV WLAC WLWB WLWB WMBG WMT WODX WOKO WORC WPG WQAM WREC WJSJ WSPD WTOG WWVA

B — Cuckoo Program with Raymond Knight

KSO KWCR KYW WBAI 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 KTSa KVOR WABC WADC WBIG WBRC

SATURDAY—(Continued)

WBT WCAO WCAU WCCO WDAE WDRJ WDBO WDDO WDRC WFEA WFBL WFHM WFEA WGST WHAS WHEC WHIP WIBW WICG WJAX WWSY WLAC WLWB WLWB WMBD WMBG WNAO WODX WOKO WORC WQAM WRCB WSBT WSJS WSPD WTOC

R—George Olsen and Orchestra

CFCE CRCT KDYL KFI KFJR KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTBS KYW WBAL WBSN WCAE WCSH WDAF WDAY WEAF WEEB WEEI WFER WFI WFLA WGY WIBA WIOD WIS WJAR WJDX WKY WMC WOAI WOV WRC WSAI WSB WSMB WTAG WTAM WTVJ WTVN

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 WEAF WEEB WFEA WFER WFLA WGY WHO WIOD WJAR WJAX WKY WMAQ WMC WOAI WOC WRC WRC WVA WSAI 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 KVOB WABC WACO WADC WBIG WBT WCAO WCCO WDAE WDBJ WDDO WDRC WDSU WFBL WFEA WHAS WHEC WHK WHP WIBW WKBN WLAC WLWB 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

CFCE CRCT KDKA KDYL KFSD KFJR KGO KGW KHQ KOA KOIL KOMO KPRC KSO KSTP KTRK KVOO KWCR KWK WAPI WBAL WBPB WBZB WCKY WDAY WEBC WENR WFLA WGAR WHAM WIBA WIOD WIS WJAX WJDX WJZ WLW WMAJ WMC WOAI WREN WWSB 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 KVOB WABC WACO WADC WBBM WBRB WBT WCAO WCCO WDAE WDDO WDSU WFBL WFEA WHAS WHIP WIBW WISN WJAS WKBN WLAC WLWB WMBD WMT WOKO WORC WPG WQAM WREC WSBT WSEA WSPD WTAQ

R—International Tid Bits

WBEN WCSH WDAF WEAF WEEI WFER WFI WGY WHO WJAR WOC WRC WSAI WTAG WTAM

ED-1:00 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 KVOB WAAB WABC WACO WADC WBBM WBIG WBT WCAO WCAU WCCO WDAE WDBJ WDDO WDRC WDSU WFBL WHAS WHEC WHP WIBW WISN WJAS WKBN WLAC WLWB WMBD WMT WOKO WORC WPG WQAM WREC WSBT WSJS WSPD WTAQ

R—Sonata Recital

WBEN WCAE WDAF WEAF WEEI WENR WFER WFI WGY WHO WJAR WOC WRC WSAI WTAG

ED-1:15 p. m., E-12:15, C-11:15, M-10:15, P-9:15

B—Ralph Ginsberg's Ensemble

CFCE CRCT KDKA KDYL KFI KFJR KGO KGW KHQ KOA KOIL KOMO KPRC KSO KVOO WAPI WBAL WBZ WCKY WDAY WGAR WHAM WIS WJDX WJR WJZ WKY WMAJ WOAI WREN WSMB WSYR WTVN

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 KVOB WAAB WABC WACO WADC WBBM WBIG WBT WCAO WCAU WCCO WDAE WDDO WDRC WDSU WHAS WHEC WHB WISN WJAS WKBN WLAC WLWB WMBD WMT WOKO WPG WQAM WREC WSBT WSJS WSPD WTAQ WTAR WTVN

R—L'Heure Exquise

CFCE CRCT WBEN WCAE WCSH WDAF WEAF

WEEI WFER WFI WGY WHO WJAR WLW WMAQ WOC WRC WTAG WTAM WTVJ

B—High Lights of the Bible

KDKA KDYL KFI KFJR KGHJ, KGRH KGO KGW KOA KOIL KOMO KPRC KSO KVOO KWK WAPI WBAL WBZ WBYA WDAY WEB WHAM WIOD WIS WJAX WJDX WJR WJZ WMAJ WOAI WREN WRC WSM WSMB WSYR WTVN

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 KVOB WABC WACO WADC WBBM WBIG WBRB WBT WCAO WCAU WCCO WDAE WDDO WDRC WDSU WFBL WFBM WFEA WHK WHB WISN WJAS WKBN WLAC WLWB WMT WOKO WORC WQAM WSBT WSJS WSPD WTAQ WTVN

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 KVOB WABC WACO WADC WBBM WBRB WBT WCAO WCAU WDDO WDRC WDSU WFBL WFBM WFEA WHAS WIBW WISN WJAS WKBN WLAC WLWB WMT WOKO WORC WQAM WSBT WSJS WSPD

R—Pop Concert—Walter Logan

CFCE CRCT KSD WBEN WCAE WCKY WCSH WDAF WEAF WEEI WFER WGY WHO WJAR WMAQ WOC WOV WRC WSAI WTAG WTAM WTVJ

ED-2:30 p. m., E-1:30, C-12:30, M-11:30, P-10:30

C—Manhattan Moods—Do Re Mi Trio

CKLW KFH KLZ KMBC KMOX KTRH KTSK KVOB WABC WACO WADC WBBM WBIG WBRB WBT WCAO WCAU WCCO WDAE WDDO WDRC WDSU WFBL WFEA WHIP WIBW WISN WJAS WKBN WLAC WLWB WMBG WMT WOKO WORC WQAM WSBT WSJS WSPD WTAQ WTVN

B—Yeast Foamers—Jan Garber's Orchestra

KDKA KDYL KFI KFSD KFJR KGHJ KGRH KGO KGW KHQ KOA KOIL KOMO KPRC KSO KSTP KTRK KTBS KTHS KVOO KWCR KWK KYW WAPI WBAL WBZ WBZA WDAY WEBC WFEA WFLA WGAR WHAM WIBA WIOD WIS WJAX WJDX WJR WJZ WKY WLW WMAJ WMT WPTF WREN WRC WSAI WSMB WSYR WTAM WTVN

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 KVOB WABC WACO WADC WBIG WBRB WBT WCAO WCAU WCCO WDAE WDDO WDSU WFBL WFBM WFEA WHAS WHP WIBW WISN WJAS WKBN WLAC WLWB WMBD WMBG WMT WOKO WORC WQAM WREC WSBT WSJS WSPD WTAQ

R—Wayne King and Orchestra

KDYL KFI KGO KGW KHQ KOA KOMO KPRC KSD KSTP KVOO WBEN WCAE WCSH WEAF WEEI WFEA WGY WHO WJDX WJR WKY WLIT WLS WLW WMC WOAI WOC WOV WRC WSB WSM WSNB WTAG WTAM WTVJ WTVN

B—National Opera Concert

CFCE CRCT KDKA KOIL KSO KWCR KWK WBAL WBZ WBZA WCKY WFLA WGAR WIOD WIS WJAX WJR WJZ WMAJ WREN WRC WSAI WSYR WTVN

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 KVOB WABC WADC WBIG WBRB WBT WCAO WCAU WCCO WDAE WDDO WDRC WDSU WFBL WFBM WFEA WHAS WHK WHP WIBW WISN WJAS WKBN WLAC WLWB 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 KFI KFJR KGO KGW KHQ KOA KOMO KPRC KSTP KTBS KVOO WBEN WCAE WCSH WDAF WDAY WEAF WEEB WEEI WFAA WFER WGY WIBA WJAR WKY WLIT WLS WOAI WOV WRC WSAI WTAG WTAM WTVJ WTVN

B—Symphonette—Cyril Pitts, Tenor

CFCE CRCT KDKA KOIL KSO KWCR KWK KYW WAPI WBAL WCKY WFLA WGAR WHAM WIOD WJAX WJR WJZ WMAJ WMC WREN WRC WSAI WSM WSMB WSYR WTVN

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 WDAF WDAF WDAF
WENR WFBW WPI WGY WJIO WJAR WJW WMAQ
WOC WOV WRC WSAI WTAG WTAM WWJ

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

C — Willard Robison Syncretized Sermons
CKLW KFH KLZ KMBC KMOX KRLD KTRH KTSK
KYOR WABC WADC WBIG WBRW WBT WCAO WCAU
WCCO WDAE WDDO WDRD WDSU WFSB WFLB
WFBA WFAA WFBM WFEA WHAS WHEC WHP WIBW
WISN WJAX WJDX WJZ WKY WMAI WMC WQAI
WPTF WREN WRVA WSB WSMB WSYR WWNC

B — The Friendly Hour

KDYL KFSD KFYR KGHL KGIR KGO KGW KHQ
KOA KOMO KPRC KSD KSTP KTAI KTBS KVOO
KWCR KWK WBAI WBZ WBZA WCFB WCKY
WDAF WDBC WFLA WGAR WHAM WIOD WIS
WJAX WJDX WJZ WKY WMAI WMC WQAI
WPTF WREN 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 KRLD KTRH KTSK
KYOR WABC WADC WBIG WBRW WBT WCAO
WCAU WCCO WDAE WDDO WDRD WDSU WFSB
WFLB WFBM WFEA WHAS WHP WIBW WISN WJAX
WJDX WJZ WKY WMAI WMC WQAI WPTF
WREN WRVA WSB WSMB WSYR WWNC

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

C — Frank Crumit and Julia Sanderson

CKLW KFBK KFH KMBC KMOX KOMA WAAB
WABC WADC WCAH WCAO WCAU WDRD WDSU
WGAN WFBL WFBM WGR WHAS WHEC WHK
WICC WJW WMAI WOKO WORC WSPD WTAI

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 KRLD KSL KTRH
KTSK KYOR WABC WADC WBBM WBIG WBRW WBT
WCAO WCCO WDAE WDDO WDRD WDSU WFSB
WFLB WFAA WFBM WFEA WHAS WHEC WHP WIBW
WISN WJAX WJDX WJZ WKY WMAI WMC WQAI
WPTF WREN WRVA WSB WSMB WSYR WWNC

R — Catholic Hour

KDYL KECA KFYR KGHL KGIR KGW KOA KOMO
KPO KPRC KSTP KTAI KTBS KVOO WAPI WBAP
WBEN WCAE WCSH WDAF WDAY WDAF WDAF
WDAF WDBC WFLA WGAR WHP WJIO WJAX WJDX
WJZ WKY WMAI WMC WQAI WPTF WREN WRVA
WSB WSMB WTAG WTAM WTMJ WWJ

B — Light Opera

CFCF CRCT KDKA KOH KSO KWCR KWK WCKY
WENR WGAR WHAM WJZ WJW WJW WMAI 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 KRLD KSL KTRH
KTSK KYOR WAAB WABC WADC WBBM WBIG
WBRW WBT WCAO WCAU WCCO WDDO WDRD
WDSU WFSB WFLB WFBM WFEA WHEC WHK WHP
WIBW WIP WJAX WJDX WJZ WKY WMAI WMC
WQAI WPTF WREN WRVA WSB WSMB WTAG
WTAM WTMJ WWJ

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

C — The Gauchos: Tito Guizar, Tenor

CKLW KFH KLZ KSL KTRH KTSK KYOR WABC
WACO WADC WBBM WBIG WBRW WBT WCAO
WCAU WCCO WDAE WDDO WDRD WDSU WFSB
WFLB WFAA WFBM WFEA WHAS WHEC WHP WIBW
WISN WJAX WJDX WJZ WKY WMAI WMC WQAI
WPTF WREN WRVA WSB WSMB WTAG WTAM
WTMJ WWJ

R — Countess Olga Albani

KSD WSH WDAF WDAF WEEI WFBW WGY WJAR
WMAQ WSAI WTAG WTAM WWJ

EC-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 WDAF WDAF WDAF
WENR WFBW WPI WGY WJIO WJAR WJW WMAQ
WOC WOV WRC 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 KTSK

KVOR WABC WACO WADC WBBM WBIG WBRC
WBT WCAO WCAU WCCO WDAE WDDO WDRD
WDSU WFLB WFBM WFEA WHAS WHEC WHP
WIBW WIP WISN WJAX WJDX WJZ WKY WMAI
WMC WQAI WPTF WREN WRVA WSB WSMB
WTAG WTAM WTMJ WWJ

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 KVOR WABC
WACO WADC WBBM WBIG WBRW WBT WCAO
WCAU WCCO WDDO WDRD WDSU WFLB WFBM
WFEA WHAS WHP WISN WJAX WJDX WJZ WKY
WMAI WMC WQAI WPTF WREN WRVA WSB
WSMB WTAG WTAM WTMJ WWJ

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 KFI KFYR KGO KGW KHQ
KOA KOMO KPRC KSD KSTP KTAI KTBS KVOO
WAPI WBEN WCAE WCSH WDAF WDAY WDAF
WDAF WDBC WFLA WGAR WHP WJIO WJAX
WJDX WJZ WKY WMAI WMC WQAI WPTF WREN
WRVA WSB WSMB WTAG WTAM 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 KTSK
KYOR WABC WACO WADC WBIG WBRW WBT
WCAO WCAU WCCO WDAE WDDO WDRD WDSU
WFSB WFLB WFBM WFEA WHAS WHEC WHP WIBW
WISN WJAX WJDX WJZ WKY WMAI WMC WQAI
WPTF WREN WRVA WSB WSMB WTAG WTAM
WTMJ WWJ

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
WDAF WENR WFBW WPI WGY WJIO WJAR WOC
WOW WRC WSAI WTAG WTAM WTMJ WWJ

B — Gulf Headliners — Revelers Quartet

KDKA KPRC KTRH KTHS KVOO WAPI WBAL WBZ
WBZA WFAA WFLA WGAR WHAM WIOD WIS
WJAX WJDX WJZ WJZ WJW WMAI WMC WQAI
WPTF WRVA WSB 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 KFI KGO KGW KHQ KOA KOMO
KPRC KSD KSTP KVOO WBEN WCAE WCKY
WCSH WDAF WDAF WEEI WENR WFAA WFBW
WFI WFLA WGY WJIO WIOD WJAR WJAX WJDX
WJZ WKY WMAI WMC WQAI WPTF WREN WRVA
WSA 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 KFYR KGHL KGIR KGO KGW KHQ KOA
KOMO KPRC KSD KSTP KVOO WBEN WCAE WCSH
WDAF WDAY WDAF WDBC WFAA WFBW WFI WGY
WJIO WJAX WJDX WJZ WKY WMAI WMC WQAI
WPTF WREN WRVA WSB WSMB WTAG WTAM
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 WBZ WBZA
WCKY WFLA WGAR WHAM WIOD WIS WJAX WJZ
WJZ WJW 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 KFSD KFYR KGHL KGIR KGO KGW
KHQ KOA KOMO KPRC KSD KSTP KATR KTBS
KYW WAPI WBEN WCAE WCSH WDAF WDAY
WDAF WDBC WFLA WGAR WHP WJIO WJAX
WJDX WJZ WKY WMAI WMC WQAI WPTF WREN
WRVA 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 KTSK
KYOR WABC WACO WADC WBIG WBRW WBT
WCAO WCCO WDAE WDBI WDDO WDRD WDSU
WFSB WFLB WFBM WFEA WHAS WHEC WHP WIBW
WIP WISN WJAX WJDX WJZ WKY WMAI WMC
WQAI WPTF WREN WRVA WSB WSMB WTAG
WTAM WTMJ WWJ

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., Wednes-
day; 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., Wednes-
day; 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., Satur-
day, 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 Robinson, 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.
Anos '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.
Aroher Gibson, 10:30 p. m., Thursday, B.
Morton Gould and Bert Sheffter, 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.
Olmstead 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. Dobbie'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.
Kaltemeyer'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 Slow Boat, 9:00 p. m. and 1:00 a. m., Thurs-
day, R.
Nestle's Program, 8:00 p. m., Friday, B.
Old Gold, 10:00 p. m., Wednesday, C.
O'Leary's Irish Minstrels, 6:30 p. m., Saturday, B.
Pond's Program, 9:30 p. m., Friday, R.
Richfield Country Club, 7:30 p. m., Mon., B; 9:30 p. m., Fri-
day, C.
Sinclair Minstrels, 9:00 p. m., Monday, B.
Singing Strings, 10:30 p. m., Saturday, C.
Tuxedo 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 Carlile, 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.; 9:00 p. m., Sat., C.
 John L. Fogarty, 11:15 p. m., Saturday, E.
 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 Joelson, 10:00 p. m., Thursday, R.
 John Kelvin, 2:00 p. m., Sunday, C.
 Frances Langford, 8:00 p. m., Saturday, E.
 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 Peardon, 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.
 Gull Headliners, 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.
 Grantland Rice, 9:30 p. m., Fri., C.; 7:30 p. m., Mon., B.
 Road 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 Broadcast. Commission.
- G All Canadian networks.

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

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

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With Sunday's Time on the Air

540 kilocycles 555.2 meters

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

550 kilocycles 545.1 meters

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	ac	1000	C	Buffalo, N. Y.	E-9:00-1:00
WKRC	ak	1000	C	Cincinnati, Ohio.	E-7:00-1:00

560 kilocycles 535.4 meters

KFDM	ak	500	(1)	Beaumont, Texas.	C-8:30-10:00
KGIZ	ak	500	D	Springfield, Mo.	C-7:00-7:00
KLZ	ak	1000	C	Denver, Colo.	M-8:00-11:30
KTAB	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.
WIND	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
WQAM	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

KGKO	ak	250	(.5)	Wichita Falls, Texas.	C-7:30-5:00
KMTR	ak	500		Hollywood, Calif.	P-7:00-7:00
KVI	ak	500		Tacoma, Wash.	P-8:00-mid.
WKBN	ae	500	1C	Youngstown, Ohio.	E-9:00-mid.
WMCA	ak	500		New York, N. Y.	E-9:00-1:00
WNAX	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	ae	1000	N	Asheville, N. C.	E-8:00-1:00

580 kilocycles 516.9 meters

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	ak	500	CT	Fresno, Calif.	P-8:30-11:00
KSAC	ak	500	2 (1)	Manhattan, Kans.	C-Silent
WDBO	ae	250	CW	Orlando, Fla.	E-8:00-mid.
WBW	ae	1000	C2	Topeka, Kans.	C-8:00-mid.
WOBU	ak	250	(.5)	Charleston, W. Va.	E-10:00-6:00
WTAG	ae	250	R (.5)	Worcester, Mass.	E-10:00-11:30
XEPN	ak	75000	585	Piedras Negras, Coah.	C-6:00-8:00; 11:00-1:00; 7:00-11:00

590 kilocycles 508.2 meters

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

600 kilocycles 499.7 meters

CFCF	ae	400	F	Montreal, Que.	E-noon-11:15
KFOD	ak	250		Anchorage, Alaska.	L-5:00-7:00
KFSD	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
WMT	af	500	C	Waterloo, Iowa.	C-7:00-mid.
WREC	ak	500	C (1)	Memphis, Tenn.	C-7:00-mid.

610 kilocycles 491.5 meters

KFRK	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	50000	618.5	Manila, P. I.	L—10:30-1:15; 3:00-10:30
TIXA	z	7.5	614	San Jose, C. R.	
WDAF	ak	1000	R	Kansas City, Mo.	C—9:00-11:00
WIP	ae	500	C	Philadelphia, Pa.	E—9:00-12:30
WJAY	ak	500	D	Cleveland, Ohio.	E
XETR	z	1000	Mexico City D. F.	C—9:00-noon; 1:00-4:00; 5:00-11:00

620 kilocycles 483.6 meters

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KGW	ae	1000	NJ	Portland, Ore.	P—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.
WTMJ	ae	1000	N (2.5)	Milwaukee, Wis.	C—8:00-1:00

630 kilocycles 475.9 meters

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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
KFRU	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	ID	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

673		
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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
KFI	ak	50000	1N	Los Angeles, Calif.	P—9:00-11:00
WAIU	ae	500	1	Columbus, Ohio.	E—6:15-6:00
WOI	ae	5000	D	Ames, Iowa.	C

650 kilocycles 461.3 meters

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KPCB	ae	100	Seattle, Wash.	P—5:30-sunset; 10:00-4:00
WSM	aej	50000	N	Nashville, Tenn.	C—8:00-11:00

660 kilocycles 454.3 meters

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

670 kilocycles 447.5 meters

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

59		
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CMAF	ak	1000	Havana, Cuba.	E—12:30-3:00; 7:00-11:00
KFEQ	ae	2500	D	St. Joseph, Mo.	C—Silent
KPO	ak	50000	N	San Francisco, Calif.	P—8:00-mid.
VAS	z	2000	685	Glace Bay, N. S.	A
WPTF	ae	1000	DnN	Raleigh, N. C.	E—10:00-sunset

690 kilocycles 434.5 meters

563		
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CFAC	ak	500	1	Calgary, Alta.	M—Silent
CFRB	ak	10000	C	Toronto, Ont.	E—10:00-mid.
CJ CJ	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

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WLW	ak	50000	N	Cincinnati, Ohio.	E—8:00-1:30
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710 kilocycles 422.3 meters

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KMPC	ae	500	Dn	Beverly Hills, Calif.	P—6:30-5:15; 8:00-1:00
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TIFB	z	30	714	San Jose, C. R.	
WOR	ak	5000	Newark, N. J.	E—10:00-12:30
XEN	agj	1000	711	Mexico City, D. F.	C—9:00-10:00; 1:00-3:00; 7:00-mid.

720 kilocycles 416.4 meters

WGN	ck	25000	C	Chicago, Ill.	C—7:00-1:30
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730 kilocycles 410.7 meters

CFPL	z	100	London, Ont.	E
CJCA	ah	500	F	Edmonton, Alta.	M
CKAX	ak	5000	CF	Montreal, Que.	E—noon-11:00
CKWX	ak	100	L	Vancouver, B. C.	P—7:00-mid.
CMK	ae	3150	.....	Havana, Cuba.	E—10:00-noon; 6:00-mid.
XEF-					
XER	ak	15000	735	Villa Acuna, Coah.	C—7:15-5:00

740 kilocycles 405.2 meters

KMMJ	ae	1000	D	Clay Center, Neb.	C—8:00-9:00; 1:30-4:00
WHEB	ak	250	D	Portsmouth, N. H.	E
WSB	ah	5000	NX	Atlanta, Ga.	C—6:55-mid.

750 kilocycles 399.8 meters

KGU	aj	2500	N	Honolulu, T. H.	L—8:45-10:30
WJR	ak	10000	B	Detroit, Mich.	E—8:00-1:00
XEAN	ae	5000	.....	Juarez, Chih.	M—9:00-2:00; 5:00-11:00

760 kilocycles 394.5 meters

KXA	ae	250	(.5)	Seattle, Wash.	P—7:00-sunset; 9:00-10:00
WBAL	ak	10000	BSy	Baltimore, Md.	(Sec 1060 kcys.)
WEW	ae	1000	D	St. Louis, Mo.	C—9:30-6:00
WJZ	ck	50000	BSy	New York, N. Y.	E—8:00-1:00

770 kilocycles 389.4 meters

KFAB	ae	5000	CSy	Lincoln, Neb.	C—9:00-6:45; 9:00-mid.
WBBM	ae	25000	CSy	Chicago, Ill.	C—8:45-10:00; 11:30-2:00

780 kilocycles 384.4 meters

CHWK	ak	100	.....	Chilliwack, B. C.	P—Silent
CJCS	z	500	(1) P	Sudbury, Ont.	E
CKPR	ak	100	FE	Fort William, Ont.	E—5:00-10:00
CMBS	ag	200	1 (.15)	Havana, Cuba.	E—Silent
CMCQ	z	1000	1	Havana, Cuba.	E
KELW	ae	500	2	Burbank, Calif.	P—10:00-1:00; 5:00-8:00; 4:00-6:00
KTM	ae	500	2 (1)	Los Angeles, Calif.	P—6:00-10:00; 1:00-5:00; 8:00-4:00
WEAN	ae	500	CH	Providence, R. I.	E—8:00-1:00
WMC	ak	500	N (1)	Memphis, Tenn.	C—8:00-mid.
WTAR	ae	500	C	Norfolk, Va.	E—9:00-mid.
XEP	z	1000	.....	Mexico City, D. F.	C

790 kilocycles 379.5 meters

CMJK	ak	500	.....	Camaguey, Cuba.	E—10:00-12:30; 4:00-11:00
KGO	ak	7500	N	San Francisco, Calif.	P—8:00-mid.
WGY	ak	50000	R	Schenectady, N. Y.	E—9:00-12:30

800 kilocycles 374.8 meters

WBAP	ak	50000	Na	Fort Worth, Texas.	C—10:00-noon; 3:00-6:00; 9:15-mid.
WFAA	ak	50000	Na	Dallas, Texas.	C—6:30-10:00; noon-3:00; 6:00-9:15
XFC	z	350	805	Aguaascalientes, Ags.	

810 kilocycles 370.2 meters

VOAS	ak	100	.....	St. John's, Nfld.	L—Silent
WCCO	ae	50000	C	Minneapolis, Minn.	C—8:00-mid.
WNYC	ak	500	N	New York, N. Y.	E—10:00-7:30
XETW	z	500	.....	Mexico City, D. F.	C

820 kilocycles 365.6 meters

CMGC	z	30	Matanzas, Cuba.	E
WHAS	aj	25000	C	Louisville, Ky.	C—8:00-mid.

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With Sunday's Time on the Air

830 kilocycles 361.2 meters

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CMGA	z	100	834	Colon, Cuba.	E
KOA	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	ae	5000	Dn	Gainesville, Fla.	E—8:30-8:15

840 kilocycles 356.9 meters

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

850 kilocycles 352.7 meters

		34	
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KIEV	ak	100	D	Glendale, Calif.	P—6:00-sunset
KWKH	ae	10000	1	Shreveport, La.	C—7:45-mid.
WWL	ae	10000	1Dn	New Orleans, La.	C—10:00-7:45
XEFD	z	300	855	Tijuana, B. C.	P

860 kilocycles 348.6 meters

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TIVL	z	30		San Jose, C. R.	
WABC	ae	50000	C	New York, N. Y.	E—8:00-1:00 (WBOQ)
WHB	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
AFX	z	500		Mexico City, D. F.	C

870 kilocycles 344.6 meters

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WENR	ak	50000	Na	Chicago, Ill.	C—8:00-12:30; 3:30-6:00; 8:00-1:00
WLS	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

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CJCB	ak	100		Sydney, N. S.	A—noon-3:00; 5:00-10:00
CJRM	z	500		Moose Jaw, Sask.	C
CJRW	ak	500	F	Winnipeg, Man.	C—8:00-9:30
CRCO	z	500	F	Ottawa, Ont.	E
KFKA	ak	500	2 (1)	Greeley, Colo.	M—Silent
KLX	ae	1000		Oakland, Calif.	P—noon-11:00
KPOF	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.	
WCOC	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
WSUI	ae	500		Iowa City, Iowa.	C—4:00-5:00; 9:00-10:00
YV2BC	z	100	882	Caracas, Venez.	L

890 kilocycles 336.9 meters

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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
KRNF	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	ae	500	2	Vermillion, S. D.	C—Silent
VOGY	z	500		St. John's, Nfld.	L
WGST	aeh	250	C (.5)	Atlanta, Ga.	C—7:00-mid.
WILL	ak	250	2 (.5)	Urbana, Ill.	C—Silent
WJAR	ae	500	R	Providence, R. I.	E—9:00-1:00
WMMN	ae	250	(.5)	Fairmont, W. Va.	E—10:00-9:00
XETU	z	100		Pachuca, Hdo.	

900 kilocycles 333.1 meters

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

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910 kilocycles 329.6 meters

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

920 kilocycles 325.9 meters

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CMBW	ak	600	925	Havana, Cuba.	E—mid.-1:00; 5:00-6:00
CMDE	ak	150	925	Havana, Cuba.	E
HHK	ae	1000		Port-au-Prince, Haiti.	E—Silent
KFEL	ak	500		Denver, Colo.	M—10:00-7:00
KFXF	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
KPRC	ae	1000	N (2.5)	Houston, Texas.	C—7:45-mid.
WAAF	ak	500	D	Chicago, Ill.	C—6:00-sunset
WBSO	ae	500	D	Babson Park, Mass.	E—8:30-5:15
WWJ	ae	1000	R	Detroit, Mich.	E—8:00-11:15

930 kilocycles 322.4 meters

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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
KGBZ	ak	500	2 (1)	York, Neb.	C—9:15-11:15; 1:30-3:00; 4:30-6:00; 7:00-8:30
KMA	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

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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.
WFIW	ak	1000	Y	Hopkinsville, Ky.	C—10:00-noon; 7:00-9:00
WHA	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

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CMHD	dk	500	(.25)	Caibarien, Cuba.	E—8:00-9:00
KFWB	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
KMBC	ak	1000	C	Kansas City, Mo.	C—7:00-mid.
WRC	ae	500	R	Washington, D. C.	E—8:00-mid.

960 kilocycles 312.3 meters

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CMBD	z	150	965	Havana, Cuba.	E
CMCW	ak	100	965	Havana, Cuba.	E—3:00-10:00
CMJL	z	50		Camaguey, Cuba.	
CRCT	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

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

980 kilocycles 303.9 meters

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

990 kilocycles 302.8 meters

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TITV	z	7.5	999	San Jose, C. R.
WBZ	ak	25000	BSy	Boston, Mass.	E—10:00-mid.
WBZA	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

KFVD	ae	250	Dn	Los Angeles, Calif.	P—8:00-6:30; 9:15-mid.
WHO-					
WOC	ak	50000	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	z	50	.....	Toluca, D. F.	C
XEFE	z	100	.....	Nuevo Laredo, Tams.	C
XEFJ	ak	100	.....	Monterrey, N. L.	C—Silent
XEFS	ak	40	.....	Queretaro, Qro.	C—Silent
XEL	ak	40	.....	Saltillo, Coah.	C—9:30-2:00

1010 kilocycles 296.9 meters

CHWC	ae	500	3F	Regina, Sask.	M—4:30-9:30
CKCD	ak	100	.....	Vancouver, B. C.	P—8:45-9:00
CKKC	ak	500	3F	Regina, Sask.	M—10:00-4:00; 9:00-10:30
CKCO	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
KGGF	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

KYW	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 20 1/2

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
CKNC	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

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

1050 kilocycles 285.5 meters

CHNS	ae	500	FL	Halifax, N. S.	A—6:00-mid.
CMJC	z	50	.....	Carnaguey, Cuba.	E
KFBI	ak	5000	Dn	Abilene, Kans.	C—8:00-8:00
KNX	ak	25000	.....	Hollywood, Calif.	P—6:45-10:00
XEFC	ak	100	.....	Merida, Yuc.	C—noon-6:00

1060 kilocycles 282.8 meters

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
WTIC	ak	50000	1R	Hartford, Conn.	E—7:30-mid.

1070 kilocycles 280.2 meters

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
 WCAZ ae 50 D
 WDW ak 100 D
 WTAM z 5000 R
 XEG z 500 1075

San Francisco, Calif. P—12:01-sunset
 Carthage, Ill. C—Silent
 Tuscola, Ill. C—9:30-4:30
 Cleveland, Ohio. E—7:00-1:00
 Mexico City, D. F. C

1080 kilocycles 277.6 meters

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WBT ae 25000 CU
 WCBD ae 5000 1Dn
 WMBI ae 5000 1Dn

Charlotte, N. C. E—9:00-mid.
 Zion, Ill. C—8:30-11:30; 3:00-sunset
 Chicago, Ill. C—7:30-8:30; 11:30-3:30

1090 kilocycles 275.1 meters

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KMOX ak 50000 C
 XEAI z 100

St. Louis, Mo. C—7:55-12:30
 Mexico City, D. F. (All mail returned)

1100 kilocycles 272.6 meters

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CRCV ak 500 F
 KGDM ak 250 D
 TIRCA ak 500
 WLWL ae 500 1
 WPG ak 5000 1C

Vancouver, B. C. P—6:00-11:00
 Stockton, Calif. P—6:00-6:30
 San Jose, C. R. C—noon-2:00; 5:00-6:00
 New York, N. Y. E—3:15-4:30; 8:00-9:15
 Atlantic City, N. J. E—9:00-3:15; 4:30-7:30; 9:15-1:00

1110 kilocycles 270.1 meters

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KSOO ae 1000 Dn (2.5)
 WRVA ae 5000 N
 XENT ak 150000 1115

Sioux Falls, S. D. C—9:00-6:30; 9:30-mid.
 Richmond, Va. E—10:00-11:15
 Nuevo Laredo, Tams. C—noon-1:00; 2:00-10:00

1120 kilocycles 267.7 meters

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CFCA ak 100 F
 CHGS ae 100 F
 CHLP z 100
 KFIO ae 100 D
 KFSG ak 500 a
 KRKD ae 500 a
 KRSC ak 100 D
 KTRH z 1000 2C
 WDEL ak 250 (.5)
 WHAD ak 250 1C
 WISN ak 250 1
 WTAW ae 500 2

Toronto, Ont. E—11:00-11:30
 Summerside, P. E. I. A—11:00-1:00; 3:00-8:15; 10:00-11:00
 Montreal, Que. E—4:30-11:45
 Spokane, Wash. P—8:00-sunset
 Los Angeles, Calif. P—10:30-12:45; 2:30-4:30; 6:30-mid.
 Los Angeles, Calif. P—7:45-10:30; 12:30-7:00
 Seattle, Wash. P—6:45-6:30
 Houston, Texas. C—8:00-11:30
 Wilmington, Del. E—10:30-10:00
 Milwaukee, Wis. C—9:30-10:15; 4:00-5:00
 Milwaukee, Wis. C—8:30-4:00; 5:00-mid.
 College Station, Texas. C—Silent

1130 kilocycles 265.3 meters

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KSL ae 50000 C
 WJJD ae 20000 Dn
 WOV ag 1000 D
 XEH ak 250 1132

Salt Lake City, Utah. M—8:00-mid.
 Chicago, Ill. C—7:20-10:00
 New York, N. Y. E—8:00-3:15; 4:30-6:00
 Monterrey, N. L. C—Silent

1140 kilocycles 263.0 meters

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CMBJ z 150
 CMCD ah 500 (25)
 KVOO ae 5000 1N
 WAPI ae 5000 1N

Havana, Cuba. E
 Havana, Cuba. E—noon-11:30-Mid.-3:00
 Tulsa, Okla. C—7:30-8:15
 Birmingham, Ala. C—8:45-sunset-8:15-Mid.

1150 kilocycles 260.7 meters

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CMJH ak 50
 WHAM ae 25000 B
 XED ak 500 1155
 10-AT ak 25 1155

Ciego de Avila, Cuba. E—8:00-8:30; 10:00-3:00; 5:30-10:30
 Rochester, N. Y. E—9:00-mid.
 Guadalajara, Jal. C—noon-3:30; 7:00-mid.
 Trail, B. C. P—11:00-1:00

1160 kilocycles 258.5 meters

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WOWO ae 10000 1C
 WWA ae 5000 1C

Fort Wayne, Ind. C—7:30-5:45; 7:30-mid.
 Wheeling, W. Va. E—7:30-8:30

1170 kilocycles 256.3 meters

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CMJE z 50 1175
 WCAU ae 50000 C

Camaguey, Cuba. E
 Philadelphia, Pa. E—9:00-1:00

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1180 kilocycles 254.1 meters

CMBN	ak	150	1185
CMCJ	ak	500	1185
HIJK	z	15000	
KEX	ak	5000	2N
KOB	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

CMHJ	ae	60	
VONF	ak	400	1195
WOAI	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

CHAB	ak	400	F
CKOV	ak	100	F
CKTB	ae	100	GP
CMGB	z	30	1205
KBTM	ak	100	D
KERN	ak	100	CT
KFJB	ak	100	(.25)
KFWF	ak	100	5
KFXD	ae	100	
KFXJ	ak	100	
KGDE	ak	100	(.25)
KGEK	ak	100	
KGFJ	ae	100	
KGHI	ak	100	(.25)
KGVO	ak	100	
KIGY	z	100	D
KMLB	ae	100	
KVOS	ak	100	
KWG	ae	100	CP
WABI	ak	100	
WBBX	ak	100	1
WBBZ	ak	100	
WBHS	z	100	D
WCAT	ak	100	
WCAX	ak	100	
WCLO	ak	100	
WCOD	ak	100	
WFAM	ak	100	3
WFBC	ak	100	8C
WFBE	ak	100	4 (.25)
WBFC	ak	100	(.25)
WBHC	ak	100	
WBHY	ak	100	
WBIX	ae	100	(.3)
WIL	ak	100	5 (.25)
WJBC	ae	100	6
WJBL	ae	100	6
WJBW	ak	100	1
WKJC	ae	100	3
WLAP	ae	100	(.25)
WNBO	ae	100	
WNBW	z	10	(.1)
WPHR	ak	100	(.25)
WRBL	z	100	
WVAE	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	—7:30-3:30
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
Janesville, 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.	E	11:00-7:00
Canora, Sask.	C	

1210 kilocycles 247.8 meters

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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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
KFJI	ak	100	.....	Klamath Falls, Ore.	P—Silent
KFOR	ak	100	(.25)	Lincoln, Neb.	C—8:00-9:00
KFPW	ak	100	.....	Fort Smith, Ark.	C—11:00-2:00; 5:00-9:30
KFVS	ae	100	.....	Cape Girardeau, Mo.	C—9:00-4:00; 9:30-mid.
KFXM	ak	100	6	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
KJEM	ak	100	.....	Eureka, Calif.	P—10:00-sunset
KPPC	ak	50	.....	Sh Pasadena, Calif.	P—9:30-12:30; 7:30-9:00
KWEA	z	100	.....	Shreveport, La.	C
KWFF	z	100	.....	Hilo, Hawaii.	L
WALR	ae	100	.....	Zanesville, Ohio.	E—10:00-10:00
WBAX	ae	100	1	Wilkes Barre, Pa.	E—1:00-11:00
WBBL	ak	100	7S	Richmond, Va.	E—10:55-12:15; 7:45-9:00
WBBS	ak	100	2	Springfield, Ill.	C—10:45-2:00; 7:00-7:30
WCRW	ae	100	4	Chicago, Ill.	C—11:00-2:00; 5:00-7:00
WEBQ	ae	100	6	Harrisburg, Ill.	C—6:00-9:00; 4:00-9:30
WEDC	ak	100	4	Chicago, Ill.	C—8:30-10:00; 3:30-5:00; 7:00-8:00; 10:00-11:00
WFAS	ae	100	3	White Plains, N. Y.	E—6:00-9:00
WGBB	ae	100	3	Freeport, N. Y.	E—9:00-6:00
WGCM	ae	100	.....	Mississippi City, Miss.	C—10:45-11:45; 3:00-5:00
WGNV	ak	50	.....	Chester, N. Y.	E
WHBF	ak	100	.....	Rock Island, Ill.	C—noon-6:00
WHBU	ah	100	.....	Anderson, Ind.	C—10:00-3:00
WHET	ak	100	D	Troy, Ala.	C—10:30-4:30; 7:00-9:00
WIBU	ae	100	.....	Poyntette, Wis.	C—10:00-5:30
WJBI	ak	100	3	Red Bank, N. J.	E—Silent
WJBY	ae	100	.....	Gadsden, Ala.	C—6:00-12:10
WJEF	ah	100	D	Hagerstown, Md.	E—11:00-Sunset
WJW	ak	100	.....	Akron, Ohio.	E—9:00-11:30
WKFI	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
WOCL	ak	50	.....	Jamestown, N. Y.	E—11:00-7:15
WOMT	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
WSBC	ae	100	4	Chicago, Ill.	C—6:00-8:30; 10:00-11:00; 2:00-3:30; 8:00-10:00; 11:00-mid.
WSEN	ak	100	.....	Columbus, Ohio.	E—10:00-mid.
WSIX	ak	100	.....	Springfield, Tenn.	C—10:30-noon; 7:00-8:30
WSOC	ae	100	Y	Gastonia, N. C.	E
WTAX	ae	100	2	Springfield, Ill.	C—8:00-10:45; 3:00-7:00; 7:30-10:15
XEX	z	500	Mexico City, D. F.	(All mail returned)

1220 kilocycles 245.8 meters

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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
KWSC	ae	1000	2(2)	Pullman, Wash.	P—Silent
WCAD	ak	500	D	Cannton, N. Y.	E—Silent
WCAE	ae	1000	R	Pittsburgh, Pa.	E—10:45-1:00
WDAE	ae	1000	CW	Tampa, Fla.	E—9:00-mid.
WREN	ak	1000	Ba	Lawrence, Kas.	C—7:00-mid.

1230 kilocycles 243.8 meters

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

1240 kilocycles 241.8 meters

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CMAB	z	20	1249	Pinar del Rio, Cuba.	E
CMJN	z	50	Camaguey, Cuba.	E
KGCU	ak	250	1	Mandan, N. D.	M—10:45-12:30; 1:30-4:00; 7:00-9:00
KLPM	ak	250	1	Minot, N. D.	C—9:00-11:45; 1:30-2:30; 5:30-8:00
KTAT	ak	1000	.....	Fort Worth, Texas.	C—7:00-Mid.
KTFI	ae	1000	Twin Falls, Idaho.	M—10:00-mid.
WKAQ	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

KFOK	ae	1000	Long Beach, Calif.	P-6:00-mid.
WAAM	ae	1000	1 (2.5)	Newark, N. J.	E-11:00-12:30
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.
WLB	ak	1000	2	Minneapolis, Minn.	C-Silent
WODA	z	1000	1	Paterson, N. J.	E
WRHM	ak	1000	2	Minneapolis, Minn.	C-9:30-3:00; 4:00-7:00; 8:00-mid.
XEFA	z	500	.....	Mexico City, D. F.	C

1260 kilocycles 238.0 meters

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
WTOC	ae	500	C	Savannah, Ga.	E-8:00-mid.
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	Scrttle, Wash.	P-8:00-mid.
KVOR	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
WJDX	ae	1000	N	Jackson, Miss.	C-10:15-11:00
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
KFBB	ae	1000	(2.5)	Ciego 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
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
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.
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
KDYL	ae	1000	NJ	Salt Lake City, Utah.	M-6:30-1:00
KLGN	z	100	D	Blytheville, Ark.	C
KTSA	ak	1000	C	San Antonio, Texas.	C-7:00-mid.
WEBC	ae	1000	N(2.5)	Superior, Wis.	C-7:00-11:00
WJAS	ak	1000	C(2.5)	Pittsburgh, Pa.	E-9:00-mid.
WNBZ	z	50	D	Saranac Lake, N. Y.	E
XEAC	z	100	1295	San Luis Potosi, S. L. P.	
XFB	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
KFAC	ae	1000	.....	Los Angeles, Calif.	P-8:00-11:00
KFH	ak	1000	C2	Wichita, Kans.	C-8:00-10:00; 11:00-7:00; 9:00-11:00
KFJR	ag	500	3	Portland, Ore.	P-Silent
VOKW	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
WFAB	ae	1000	1	New York, N. Y.	E-9:00-10:00; 11:00-mid.
WHAZ	ae	500	1	Troy, N. Y.	E-Silent
WIOD	ae	1000	N	Miami, Fla.	E-8:00-mid.
WQQ	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
KFGQ	ak	100	7	Boone, Iowa.	C—8:30-9:00; 2:30-4:00; 7:30-9:00; 11:00-mid.
KFPL	ak	100	.....	Dublin, Texas.	C—Silent
KFPM	ae	15	.....	Greenville, Texas.	C—Silent
KFXR	ak	100	(.25)	Oklahoma City, Okla.	C—9:30-9:30
KFYO	ak	100	(.25)	Lubbock, Texas.	C—8:00-noon; 4:00-8:00
KGBX	ae	100	.....	Springfield, Mo.	C—7:30-1:00; 3:30-10:00
KGCX	ak	100	(.25)	Wolf Point, Mont.	M—Silent
KGEZ	aj	100	.....	Kalispell, Mont.	M—9:00-2:00
KGFW	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
KRMD	ak	100	.....	Shreveport, La.	C—9:00-6:00
KTSM	ak	100	a	El Paso, Texas.	M—8:00-9:30; 1:00-7:00
KXRO	ak	100	.....	Aberdeen, Wash.	P—10:00-7:00
WAML	ak	100	.....	Laurel, Miss.	C—noon-7:00
WBEO	ae	100	.....	Marquette, Mich.	C—9:00-1:30
WBOW	ak	100	.....	Terre Haute, Ind.	C—9:00-10:00
WBRE	ak	100	.....	Wilkes Barre, Pa.	E—10:30-9:30
WCLS	ae	100	b	Joliet, Ill.	C—9:00-2:00; 6:00-8:00
WDAH	ck	100	Sa	El Paso, Texas.	M—9:30-noon; 8:00-9:00
WEBR	aej	100	Q (.25)	Buffalo, N. Y.	E—9:00-mid.
WEXL	ak	50	.....	Royal Oak, Mich.	E—8:30-mid.
WFBG	ae	100	3	Altoona, Mich.	E—11:30-1:00; 3:30-4:30; 7:15-10:15
WFDF	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.
WIAS	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
WKBB	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
WNBH	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
WSAJ	ae	100	.....	Grove City, Pa.	E—4:30-5:00
WSJS	ak	100	C	Winston-Salem, N. C.	E—8:00-mid.
WTSL	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
WTRC	ak	50	6 (.1)	Elkhart, Ind.	C—11:00-9:00
XIEF	ak	100	1315	Monterrey, N. L.	C—8:00-3:00
XEI	ak	250	.....	Morelia, Mich.	C—7:00-9:00

1320 kilocycles 227.1 meters

CMCY	ak	500	1325	Havana, Cuba.	E—8:30-10:30
KGHF	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.
WSMB	ak	500	N	New Orleans, La.	C—7:00-mid.

1330 kilocycles 225.4 meters

KGB	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
WDRC	ae	500	CH	Hartford, Conn.	E—10:00-mid.
WSAI	ak	500	R (1)	Cincinnati, Ohio.	E—9:00-mid.
WTAQ	ae	1000	1C	Eau Claire, Wis.	C—8:00-8:00
XEQ	z	500	.....	Mexico City, D. F.	

1340 kilocycles 223.7 meters

KFPY	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
WCOA	ae	500	.....	Pensacola, Fla.	E—9:00-3:30
WLEC	z	250	(.5)	Portland, Maine.	E—(Mail returned)
WSPD	ae	1000	C	Toledo, Ohio.	E—9:00-mid.

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1350 kilocycles 222.1 meters

KIDO	ak	1000	Boise, Idaho.	M—10-00-7:00		
KWK	ak	1000	B	St. Louis, Mo.	C—8:00-11:00		
TGW	ak	500	.....	Guatemala City, Gua.	L—noon-1:00		
WAWZ	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		
WCDA	ae	250	1a	New York, N. Y.	E—9:00-11:00; 12:30-3:30; 4:30-7:00; 8:30-2:00		
WEHC	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

CMJP	ak	75	.....	Moron, Cuba.	E—10:00-noon; 8:00-10:00		
KGFR	ak	1000	.....	Long Beach, Calif.	P—7:00-11:00		
KGJR	ak	500	N (1)	Butte, Mont.	M—9:00-mid.		
WCSC	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		
WGES	ae	500	.....	Chicago, Ill.	C—8:00-10:30; 11:45-1:00; 3:30-7:00; 11:00-1:00		
WQBC	ak	500	.....	Vicksburg, Miss.	C—10:00-9:00		

1370 kilocycles 218.8 meters

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		
KCRC	ak	100	2 (2.5)	Erid, Okla.	C—11:00-3:00		
KFBL	ae	50	3	Everett, Wash.	P—7:00-9:00		
KFJM	ak	100	.....	Grand Forks, N. D.	C—7:00-9:00		
KFJZ	ae	100	.....	Fort Worth, Texas.	C—8:00-11:00		
KGAR	ae	100	(.25)	Tucson, Ariz.	M—9:00-9:00		
KGFG	bk	100	2	Oklahoma City, Okla.	C—9:30-11:00, 3:00-11:00		
KGFL	ak	100	4	Roswell, N. M.	M—8:00-9:30; 3:00-6:00		
KGKL	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		
KMAC	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.		
KONO	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		
KSO	ak	100	B (2.5)	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		
WBMT	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.		
WHBD	ak	100	.....	Mount Orab, Ohio.	E—10:00-7:00		
WHBQ	ak	100	.....	Memphis, Tenn.	C—10:30-9:00		
WHDF	ak	100	(.25)	Calumet, Mich.	E—10:00-2:00; 4:30-8:30		
WIBM	ae	100	1K	Jackson, Mich.	E—7:30-8:00		
WJBK	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		
XEFB	ae	100	.....	Mexico City, D. F.	C—8:00-10:00		

1380 kilocycles 217.3 meters

CMJC	z	150	1382	Camaguey, Cuba.	E		
KOIH	ak	500	C	Reno, Nev.	P—8:00-10:00		
KQV	ak	500	2	Pittsburgh, Pa.	E—10:00-7:00		
WKBH	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

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HHH	z	15	1395	San Pedro, D. R.	L
KLRA	ae	1000	C	Little Rock, Ark.	C-7:00-mid.
KOY	ae	500	(1)	Phoenix, Ariz.	M
WHK	ae	1000	C(2.5)	Cleveland, Ohio.	E-8:00-mid.

1400 kilocycles 214.2 meters

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KLO	ah	500	C	Ogden, Utah.	M-9:00-10:30
KOCW	z	250	(.5)	Tulsa, Okla.	C
WARD	ak	500	2	Brooklyn, N. Y.	E-10:30-noon; 7:00-9:00
WBAA	z	500	1	Lafayette, Ind.	C-Silent
WBBC	ae	500	2	Brooklyn, N. Y.	E-6:00-9:30; 8:00-9:30
WFOX	ak	500	2	Brooklyn, N. Y.	E-Noon-1:30; 4:30-7:00
WKBF	ak	500	1	Indianapolis, Ind.	C-9:30-11:00
WLTH	ak	500	2	Brooklyn, N. Y.	E-1:30-4:30; 10:30-12:30

1410 kilocycles 212.6 meters

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CFKC	ak	50	5	Vancouver, B. C.	P-10:45-6:00; 7:30-9:00
CKMO	z	100	5	Vancouver, B. C.	P
CMCH	ak	50	Havana, Cuba.	E-3:00-7:00
CNCF	z	15	.....	Havana, Cuba.	E
KFLV	ak	500	4	Rockford, Ill.	C-10:00-2:30; 6:00-9:30
KGRS	ae	1000	1	Amarillo, Texas.	C-6:00-10:00; 11:00-3:00; 5:00-7:30; 10:00-mid.
WAAB	ae	500	CH	Boston, Mass.	E-9:00-11:30
WBCM	ae	500	K	Bay City, Mich.	E-9:00-mid.
WDAG	ae	1000	1	Amarillo, Texas.	C-10:00-11:00; 3:00-5:00; 7:30-10:00
WHBL	ae	500	4	Sheboygan, Wis.	C-9:00-10:00
WHIS	ak	250	2	Bluefield, W. Va.	E-9:00-5:00
WODX	ae	500	3C	Mobile, Ala.	C-9:30-6:15; 7:45-10:30
WRBX	ae	250	2	Roanoke, Va.	E-8:00-Sunset
WSFA	ck	500	3C	Montgomery, Ala.	C-6:00-7:45

1420 kilocycles 211.1 meters

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KABC	ak	100	San Antonio, Texas.	C-8:00-10:30
KBPS	aj	100	4	Portland, Ore.	P-Silent
KCMC	ak	100	Texarkana, Ark.	C-11:00-2:00; 6:00-8:00
KFIZ	ak	100	.....	Fond du Lac, Wis.	C-Silent
KGFF	ak	100	.....	Shawnee, Okla.	C-10:15-9:00
KGOC	ak	100	.....	San Francisco, Calif.	P-9:00-12:30; 2:30-5:00; 7:00-10:00
KGIW	ak	100	1	Trinidad, Colo.	M-11:00-12:15; 3:30-6:00
KGLX	ak	100	1	Las Vegas, Nev.	M-Silent
KJCK	z	100	z	Carter Lake, Iowa.	C
KIDW	z	100	1	Lamar, Colo.	M-8:00-10:00; 7:00-10:00
KORE	ae	100	.....	Eugene, Ore.	P-10:00-3:00; 6:00-9:00
KUMA	ak	100	.....	Yuma, Ariz.	M-6:00-9:00
KWCR	ak	100	B(.25)	Cedar Rapids, Iowa.	C-7:00-mid.
KXL	ae	100	4	Portland, Ore.	P-8:00-Mid.
WACO	ak	100	C	Waco, Texas.	C-8:00-2:00; 5:00-10:30
WAGM	ae	100	.....	Presque Isle, Maine.	E-10:30-12:30
WAMC	ae	100	.....	Anniston, Ala.	C-9:00-12:30; 4:00-9:00
WAZL	ak	100	2	Hazleton, Pa.	E-3:00-9:00
WEED	ak	100	DP	Greenville, N. C.	E-10:00-1:00
WEHS	ak	100	a	Cicero, Ill.	C-4:00-8:00
WELL	ak	50	D	Battle Creek, Mich.	E-10:45-9:30
WENC	ak	100	D	Americus, Ga.	C-8:30-6:00
WHDL	ae	100	D	Tupper Lake, N. Y.	E-11:15-2:15
WHFC	ae	100	a	Cicero, Ill.	C-8:00-4:00; 8:00-1:00
WILM	aj	100	2	Wilmington, Del.	E-Silent
WJBO	z	100	DY	New Orleans, La.	C
WJMS	ak	100	.....	Ironwood, Mich.	C-10:00-7:00
WKBI	ak	100	a	Cicero, Ill.	C-Silent
WLBf	ak	100	.....	Kansas City, Kans.	C-9:00-11:30
WMAS	ak	100	CH(.25)	Springfield, Mass.	E-8:00-11:00
WMBC	ag	100	(.25)	Detroit, Mich.	E-9:45-mid.
WMBH	ak	100	(.25)	Joplin, Mo.	C-10:50-2:30; 7:30-9:30
WMED	z	100	D	Florence, Ala.	C
WPAD	ak	100	.....	Paducah, Ky.	C-7:00-9:00; 10:00-2:00; 3:00-10:30
WSPA	ae	100	(.25)	Spartanburg, S. C.	E-10:30-3:00; 5:00-9:30
WTBO	ae	100	(.25)	Cumberland, Md.	E-1:00-5:00

1430 kilocycles 209.7 meters

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CFCT	ae	500	Victoria, B. C.	P-11:00-12:30; 7:00-9:00
KECA	ak	1000	N	Los Angeles, Calif.	P-8:00-11:00
KGNF	ak	500	D	North Platte, Neb.	C-10:30-2:00

INDEX BY FREQUENCIES AND DIAL NUMBERS

With Sunday's Time on the Air

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

1440 kilocycles 208.2 meters

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	ae	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
WBIG	ae	500	C(1)	Greensboro, N. C.	E—9:00-11:00
WCBA	aj	250	a	Allentown, Pa.	E—10:00-11:30
WMBD	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

KTBS	ck	1000	N	Shreveport, La.	C—7:00-mid.
TIEP	z	7.5	.....	San Jose, C. R.	L
WGAR	ak	500	B(1)	Cleveland, Ohio.	E—6:00-1:00
WHOM	ae	250	.....	Jersey City, N. J.	E—8:00-mid.
WSAR	ae	250	.....	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

KSTP	ae	25000	(N 10)	St. Paul, Minn.	C—8:00-mid.
WJSV	ak	10000	C	Washington, D. C.	E—7:30-mid.

1470 kilocycles 204.0 meters

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

1480 kilocycles 202.6 meters

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

1490 kilocycles 201.2 meters

WCKY	ae	5000	BY	Covington, Ky.	E—11:00-mid.
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1500 kilocycles 199.9 meters

CRCS	z	100	Chicoutimi, Que.
KDB	ak	100	CT	Santa Barbara, Calif.	P—8:00-mid.
KGFI	ak	100	(.25)	Corpus Christi, Tex.	C—7:00-3:00; 6:00-10:00
KGFK	ak	100	.....	Moorhead, Minn.	C—9:00-9:00
KGKB	ak	100	.....	Tyler, Texas.	C—9:00-1:30; 5:30-9:00
KGKY	ck	100	.....	Scottsbluff, Neb.	M—10:00-mid.
KNOW	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	.....	Connersville, Ind.	C
WKBZ	ak	100	.....	Ludington, Mich.	E—Silent
WKEU	ak	100	.....	LaGrange, Ga.	C—3:00-6:00
WMBQ	ae	100	1	Brooklyn, N. Y.	E—7:00-11:00
WMIL	ak	100	1	Brooklyn, N. Y.	E—9:00-11:00; 11:00-1:00
WMPC	ak	100	.....	Lapeer, Mich.	E—10:00-2:00; 3:30-6:00; 7:30-11:00
WNBf	ae	100	.....	Binghamton, N. Y.	E—10:30-12:30; 2:30-10:00
WOPi	ae	100	.....	Bristol, Tenn.	E—10:30-1:00; 6:00-7:30
WPEN	ck	100	(.25)	Philadelphia, Pa.	E—9:00-10:00
WRDw	ae	100	.....	Augusta, Ga.	E
WSYB	ae	100	.....	Rutland, Vt.	E—10:00-11:00
WRRL	ak	100	1	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.

ALABAMA				Hollywood				Storrs				Chicago							
Anniston				KFWB	950	1000		WCAC	600	250	KYV	1020	10000	N					
WAMC	1420	100		KMTR	570	500		DELAWARE				WAAF	920	500					
Birmingham				KNX	1050	25000		Wilmington				WBBM	770	25000	C				
WAPI	1140	5000	N	Long Beach				WDEL	1120	250	WCFB	970	1500	B					
WBRC	930	500	C	KFOX	1250	1000		WILM	1420	100	WCRW	1210	100						
WKBC	1310	100	C	KGER	1360	1000		DISTRICT OF COLUMBIA				WEDC	1210	100					
Florence				Los Angeles				Washington				WENR	870	50000	N				
WMED	1420	100		KECA	1430	1000	N	WJWS	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		WJJD	1130	20000					
Huntsville				KFSG	1120	500		WRC	950	500	R	WLS	870	50000	N				
WBHS	1200	100		KFVD	1000	250		FLORIDA				WMAQ	670	5000	N				
Mobile				KGfJ	1200	100		Clearwater				WMBI	1080	5000					
WODX	1410	500	C	KHJ	900	1000	C	WFLA	620	1000	N	WSBC	1210	100					
Montgomery				KRKD	1120	500		Gainesville				Cicero							
WSFA	1410	500	C	KTM	780	500		WRUF	830	5000		WEHS	1420	100					
Troy				Oakland				Jacksonville				WHFC	1420	100					
WHET	1210	100		KLS	1440	250		WJAX	900	1000	N	WKBI	1420	100					
ALASKA				KLX	880	1000		Miami			Decatur								
Anchorage				KROW	930	500		WIOD	1300	1000	N	WJBL	1200	100					
KFQD	600	250		Pasadena				WQAM	560	1000	C	Harrisburg							
Juneau				KPPC	1210	50		WQAO	560	1000	C	WEBQ	1210	100					
KIFH	1310	100		Sacramento				Orlando				WCLS	1310	100					
Ketchikan				KFBK	1310	100	C	WDBO	580	250	C	WKBB	1310	100					
KGBU	900	500		San Bernardino				Pensacola				WCS	1310	100					
ARIZONA				KFXM	1210	100		WCOA	1340	500		LaSalle							
Jerome				San Diego				St. Petersburg				WJBC	1200	100					
KCRJ	1310	100		KFSD	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				KFRG	610	1000	C	WMBR	1370	100		WTAD	1440	500					
KOY	1390	500		KFWI	930	500		GEORGIA				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		Athens			WHBF	1210	100						
Tucson				KPO	680	50000	N	WTFI	1450	500		Springfield							
KGAR	1370	100		KTAB	560	1000		Atlanta			WCBS	1210	100						
KVOA	1260	500		KYA	1230	1000	N	WGST	890	250	C	WTAX	1210	100					
Yuma				San Jose				WJTL				WZ	1070	100					
KUMA	1420	100		KQW	1010	500		WSB	740	5000	N	Urbana							
ARKANSAS				Santa Ana				Augusta				WLL	890	250					
Blytheville				KREG	1500	100		WRDW	1500	100		Zion							
KLCN	1290	100		Santa Barbara				Columbus				WCBD	1080	5000					
Fayetteville				KDB	1500	100	C	WRBL	1200	100		INDIANA							
KUOA	1260	1000		Stockton				LaGrange				Anderson							
Fort Smith				KGDM	1100	250		WKEU	1500	100		WHBU	1210	100					
KFPW	1210	100		KWG	1200	100	C	Macon			Connersville								
Hot Springs				COLORADO				Rome				WKBV	1500	100					
KTHS	1040	10000	N	Colorado Springs				Savannah				Elkhart							
Little Rock				KVOR	1270	1000	C	WTOC	1260	500	C	WTRC	1310	50					
KARK	890	250		Denver				Thomasville				Evansville							
KGHI	1200	100		KFEL	920	500		WQDX	1210	100		WGBF	630	500					
KLRA	1390	1000	C	KFFX	920	500		HAWAII				Fort Wayne							
Paragould				KLZ	560	1000	C	Hilo			WGL	1370	100	C					
KBTM	1200	100		KOA	830	12500	N	KWfV	1210	100		WOWO	1160	10000	C				
Texarkana				KPOF	880	500		Honolulu			KGMB	1320	250	C					
KCMC	1420	100		Grand Junction				KGU	750	2500	N	Indianapolis							
CALIFORNIA				KFXJ	1200	100		IDAHO				WBFB	1400	5000	C				
Bakersfield				Greeley				Boise				WKBK	1400	500					
KERN	1200	100	C	KFKA	880	500		KIDO	1350	1000		Muncie							
Berkeley				KIDW	1420	100		Idaho Falls			WLBK	1310	50						
KRE	1370	100		Pueblo				KID				South Bend							
Beverly Hills				KGHF	1320	250		Nampa			WFAM	1200	100	C					
KMPC	710	500		KGIW	1420	100		Pocatello			WSBT	1230	500	C					
Burbank				KYMA	1200	100		CONNECTICUT				Terre Haute							
KELW	780	500		Bridgeport				WICC				WOW	1310	100					
El Centro				KGEK	1200	100		Hartford				West Lafayette							
KXO	1500	100		WDRG				ILLINOIS				WBAA	1400	500					
Eureka				WTIC	1060	50000	R	Carthage				IOWA							
KIEM	1210	100		WRC				WCAZ				Ames							
Fresno				WOL				WOI				640	5000						
KMJ	580	500	C																
Glendale																			
KIEV	850	100																	

INDEX BY LOCATIONS

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

INDEX BY LOCATIONS

WBNX 1350 250	Cleveland	Johnstown	TENNESSEE
WBOQ 860 50000	WGAR 1450 500 B	WJAC 1310 100	Bristol
WCDA 1350 250	WHK 1390 1000 C	Lancaster	WOPI 1500 100
WEAF 660 50000 R	WJAY 610 500	WGAL 1310 100	Chattanooga
WEVD 1300 500	WTAM 1070 50000 R	WKJC 1200 100	WDOO 1280 1000 C
WFAB 1300 1000	Columbus	Philadelphia	Jackson
WHN 1010 250	WAIU 640 500	WCAU 1170 50000 C	WTJS 1310 100
WINS 1180 500	WCAH 1430 500 C	WDAS 1370 100	Knoxville
WJZ 760 50000 B	WOSU 570 750	WFI 560 500 R	WNOX 560 1000 C
WLWL 1100 5000	WSEN 1210 100	WHAT 1310 100	WROL 1310 100
WMCA 570 500	Dayton	WIP 610 500 C	Memphis
WMSG 1350 250	WSMK 1380 230	WLIT 560 500 R	WHBQ 1370 100
WNYC 810 500	Mount Orab	WPEN 1500 100	WMC 780 500 N
WOV 1130 1000	WHBD 1370 100	WRAX 1020 250	WNBK 1430 500
WPAP 1010 250	Toledo	WTEL 1310 100	WREC 600 500 C
WPCB 570 500	WSPD 1340 1000 C	Pittsburgh	Nashville
WQAO 1010 250	Youngstown	KDKA 980 50000 B	WLAC 1470 5000 C
WRNY 1010 250	WKBN 570 500 C	KQV 1380 500	WSM 650 50000 N
Rochester	Zanesville	WCAE 1220 1000 R	Springfield
WHAM 1150 25000 B	WALR 1210 100	WJAS 1290 1000 C	WSIX 1210 100
WHCC 1430 500 C	OKLAHOMA	WWSW 1500 100	TEXAS
Saranac Lake	Elk City	Reading	Amarillo
WNBZ 1290 50	KASA 1210 100	WEEU 830 1000	KGRS 1410 1000
Schenectady	Enid	WRAW 1310 100	WDAG 1410 1000
WGY 790 50000 R	KCRC 1370 100	Scranton	Austin
Syracuse	Norman	WGBI 880 250	KNOW 1500 100
WFBL 1360 1000 C	WNAD 1010 500	WQAN 880 250	Beaumont
WSYR 570 250 B	Oklahoma City	WNBO 1200 100	KFDM 560 500
Troy	KFXR 1310 100	Silverhaven	Brownsville
WHAZ 1300 500	KGFG 1370 100	WNBU 1210 100	KWWG 1260 500
Tupper Lake	KOMA 1480 5000 C	Sunbury	College Station
WHDL 1420 100	WKY 900 1000 N	WKCK 1210 100	WTAW 1120 500
Utica	Ponca City	Wilkes-Barre	Corpus Christi
WBX 1200 100	WBZ 1200 100	WBAX 1210 100	KGFI 1500 100
White Plains	Shawnee	WBRE 1310 100	Dallas
WFAS 1210 100	KGFF 1420 100	WRAK 1370 100	KRLD 1040 10000 C
Woodside	Tulsa	WORK 1000 1000	WFAA 801 50000 N
WRRL 1500 100	KOCW 1400 250	PHILIPPINES	WRR 1283 500 C
NORTH CAROLINA	KVOO 1140 5000 N	Cebu	Dublin
Asheville	OREGON	KZRC 937.5 500	KFPL 1310 100
WUNC 570 1000 N	Corvallis	Manila	El Paso
Charlotte	KOAC 550 1000	KZKA 1110 1000	KTSM 1310 100
WBT 1080 25000 C	Eugene	KZRM 618.5 50000	WDAI 1310 100
Gastonia	KORE 1420 100	PORTO RICO	Fort Worth
WSOC 1210 100	Klamath Falls	San Juan	KFJZ 1370 100
Greensboro	KFJI 1210 100	WKAQ 1240 1000	KTAT 1240 1000
WBIG 1440 500 C	Marshfield	RHODE ISLAND	WBAP 800 53000 N
Greenville	KOOS 1370 100	Providence	Galveston
WEED 1420 100	Medford	WEAN 780 500 C	KLUF 1370 100
Raleigh	KMED 1310 100	WJAR 890 500 R	Greenville
WPTF 680 5000 N	Portland	WPRO 1210 100 C	KFPM 1310 15
Wilmington	KALE 1300 500 C	SOUTH CAROLINA	Harlingen
WRAM 1370 100	KBPS 1420 100	Charleston	KRGV 1260 500
Winston-Salem	KEX 1180 5000 N	WCSC 1360 500	Houston
WSJS 1310 100 C	KFJR 1300 500	Columbia	KPRC 920 1000 N
NORTH DAKOTA	KGW 620 1000 N	WIS 1010 500 N	KTRH 1120 1000 C
Bismarck	KOIN 940 1000 C	Greenville	KNYZ 1440 250
KFYR 550 1000 N	KWJJ 1060 500	WFBC 1200 100	Lubbock
Devils Lake	KXL 1420 100	Spartanburg	KFYO 1310 100
KDLR 1210 100	PENNSYLVANIA	WSPA 1420 100	San Angelo
Fargo	Allentown	SOUTH DAKOTA	KGKL 1370 100
WDAY 940 1000 N	WCSA 1440 250	Brookings	San Antonio
Grand Forks	WFSB 1310 100	KFDY 550 500	KABC 1420 100
KFJM 1370 100	Altoona	Huron	KMAC 1370 100
Mandan	Carbondale	KGDY 1340 250	KONO 1370 100
KGCU 1240 250	Minot	Pierre	KTSA 1290 1000 C
Minot	KLPM 1240 250	Rapid City	WOAI 1190 50000 N
OHIO	Akron	Sioux Falls	Tyler
WADC 1320 1000 C	WADG 1320 1000 C	KSOU 1110 1000	KGKB 1500 100
WJW 1210 100	WAGS 1440 250	Vermillion	Waco
Canton	WBAK 1430 1000	Watertown	WACO 1420 100 C
WHBC 1200 100	WCOB 1200 100	Yankton	Wichita Falls
Cincinnati	WHP 1430 500 C	WNAX 570 1000 C	KGKO 570 250
WFBE 1200 100	Hazleton		UTAH
WKRC 1500 1000 C	WAZL 1420 100		Ogden
WLW 700 50000 N			KLO 1400 500 C
WSAI 1330 500 R			Salt Lake City
			KDYL 1290 1000 N
			KSL 1130 5000 C

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VERMONT		WISCONSIN		NOVA SCOTIA		CJRM 880 500	
Burlington		Eau Claire		Glace Bay		Prince Albert	
WCAX 1200	100	WTAQ 1330	1000 C	VAS 685	2000	10-BI 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	WHBY 1200	100	CJCB 880	50	Saskatoon	
Springfield		Janesville		Wolfville		CFQC 890	500
WNBX 1260	250	WCLO 1200	100	CKIC 1010	50	Yorkton	
Waterbury		LaCrosse		ONTARIO			
WDEV 550	500	WKBH 1380	1000 C	Brantford		NEWFOUNDLAND	
VIRGINIA		Madison		10-BQ 1200	15	St. John's	
Arlington		WHA 940	1000	Chatham		VOAS 810	100
NAA 690	1000	WIBA 1280	500 N	CFCO 1210	100	VOGY 890	100
Charlottesville		Manitowoc		Cobalt		VOKW 1300	30
WEHC 1350	500	WOMT 1210	100	CKMC 1210	100	VONF 1195	400
Danville		Milwaukee		Fort William		VOWR 750	500
WBTM 1370	100	WHAD 1120	250 C	CKPR 780	100	CENTRAL AMERICA	
Lynchburg		WISN 1120	250 C	Hamilton		COSTA RICA	
WLVA 1370	100	WTMJ 620	1000 N	CHML 890	50	Cartago	
Newport News		Poynette		CKOK 1010	500	TIFS 1441	7.5
WGH 1310	100	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		Sheboygan		CKCR 645	100	TIGR 1180	30
WPHR 1200	100	WHBL 1410	500	London		TIEA 833	7.5
Richmond		Stevens Point		CFPL 730	100	TIEP 1450	7.5
WBBL 1210	100	WLBL 900	2500	North Bay		TIFB 714	30
WMBG 1210	100 C	Superior		CFCH 930	100	TIGP 666	75
WRVA 1110	5000 N	WEBC 1290	1000 N	Ottawa		TIRCA 1100	500
Roanoke		WYOMING		CKCO 1010	100	TISO 600	50
WDBJ 930	250 C	Casper		CRCO 880	500	TITV 999	7.5
WRBX 1410	250	KDFN 1440	500	Prescott		TIVL 860	30
WASHINGTON		CANADA		Preston		TIXA 614	7.5
Aberdeen		ALBERTA		CKPC 930	100	GUATEMALA	
KXRO 1310	100	Calgary		St. Catharines		Guatemala City	
Bellingham		CFCN 690	500	CKTB 1200	100	TGW 1350	
KVOS 1200	100	CFCN 1030	10000	Stratford		HONDURAS	
Everett		CJCF 690	500	10-AK 1200	15	San Pedro Sula	
KFBL 1370	50	CJCFJ 690	500	Sudbury		JRL 1350	7.5
Olympia		Edmonton		CJCS 780	500	Tegucigalpa	
KGY 1210	100	CHMA 580	250	Toronto		HRB 1370	2300
Pullman		CJCA 730	500	CFCA 1120	100	EL SALVADOR	
KWSC 1220	1000	CKUA 580	500	CFRB 690	10000 C	San Salvador	
Seattle		Lethridge		CKCL 580	100	RUS 664	
KJR 970	5000 N	CJOC 840	100	CRCT 960	5000 N	MEXICO	
KOL 1270	1000 C	BRT. COLUMBIA		CKNC 1030	100	AGUASCALIENTES	
KOMO 920	1000 N	Chilliwack		Windsor		Aguascalientes	
KPCB 650	100	CHWK 780	100	CKLW 540	5000 C	XFC 805	
KRSC 1120	100	Kamloops		Wingham		BAJA CALIFORNIA	
KTW 1220	1000	CFJC 1310	100	10-BP 1200	25	Mexicali	
KVL 1370	100	Kelowna		PRINCE EDWARD		XEAE 1000	
KXA 760	250	CKOV 1200	100	ISLAND		XEAO 560	
Spokane		Trail		Charlottetown		Tijuana	
KFIO 1120	100	10-AT 1155	25	CFCY 630	500	XEFD 855	
KFPY 1340	1000 C	Vancouver		CHCK 1310	100	CHIHUAHUA	
KGA 1470	5000 N	CJOR 1210	500	Summerside		Chihuahua	
KHQ 590	1000 N	CKCD 1010	100	CHGS 1120	100	XEFI 1260	
Tacoma		CKFC 1410	50	QUEBEC		Juarez	
KMO 1330	250	CKMO 1410	100	Chicoutimi		XEAN 750	
KVI 570	500 C	CKWX 730	100	CRCS 1500	100	XEFV 1370	
Walla Walla		CRCV 1100	500	Hull		XEJ 1015	
KUJ 1370	100	Victoria		CKCH 1210	100	COAHUILA	
Wenatchee		CFCT 1430	50	Montreal		Piedras Negras	
KPO 1500	100	MANITOBA		CFCF 600	400 N	XEPN 585	
Yakima		Brandon		CHLP 1120	100	Saltillo	
KIT 1310	100	CKX 930	500	CKAC 730	5000 C	XEL 1000	
WEST VIRGINIA		Winnipeg		New Carlisle		Torreon	
Bluefield		CJRW 880	500	CHNC 1210	100	XETB 1380	
WHIS 1410	250	CKY 910	5000	Quebec		Villa Acuna	
Charleston		NEW BRUNSWICK		CHRC 645	100	XER- 735	
WOBU 580	250	Fredericton		CKCV 1310	50	150000	
Fairmont		CFNB 1030	50	SASKATCHEWAN		XEF	
WMNM 890	250	Moncton		Canora		AGUASCALIENTES	
Huntington		CRCA 580	500	10-BU 1200	15	Aguascalientes	
WSAZ 1190	1000	St. John		Moose Jaw		BAJA CALIFORNIA	
Wheeling		CFBO 1030	500	CHAB 1200	400	Mexicali	
WWVA 1160	5000 C					XEAE 1000	

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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

<p>W2XE-WABC, Wayne, N. J. (New York, N. Y.)</p> <p>15.258 19.65 11 a.m. to 1 p.m.</p> <p>11.823 25.36 3 p.m. to 5 p.m.</p> <p>6.116 49.02 6 to 11 p.m.</p> <p>W3XAU-WCAU, Ryberry, Pa. (Philadelphia, Pa.)</p> <p>9.585 31.28 11 a.m. to 5 p.m.</p> <p>6.057 49.50 7 p.m. to midnight</p>
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NATIONAL "RED" NETWORK

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

NATIONAL "BLUE" NETWORK

<p>W1XAZ-WBZ-WBZA, Millis, Mass. (Boston and Springfield, Mass.)</p> <p>9.560 31.36 6 a.m. to midnight</p>
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<p>W3XAL-WJZ Boundbrook, N. J. (New York, N. Y.)</p> <p>17.772 16.87 12:30 to 6:30 p.m., except Sat.</p> <p>6.096 49.17 Saturday, 3 p.m. to midnight</p> <p>W3XL-WJZ, Boundbrook, N. J. (New York, N. Y.)</p> <p>6.421 46.69 Irregular</p> <p>W8XK-KDKA, Saxonsburg, Pa. (Pittsburgh, Pa.)</p> <p>21.451 13.93 7 a.m. to 2 p.m.</p> <p>15.204 19.72 10 a.m. to 4:15 p.m.</p> <p>11.870 25.25 4:30 to 10 p.m.</p> <p>6.140 48.83 4:30 p.m. to 12:30 a.m.</p>

NATIONAL "RED" AND "BLUE" NETWORK

<p>VE9DR-CFCF, Montreal, Quebec (Montreal, Quebec)</p> <p>6.005 49.93 Sun., noon to 11:15 p.m. Other day s, 7:30 a.m. to midnight</p> <p>VE9GW-CRCT, Bowmanville, Ont. (Toronto, Ontario)</p> <p>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.</p> <p>W4XB-WIOD, Miami Beach, Fla. (Miami Beach, Fla.)</p> <p>6.036 49.67 Irregular</p> <p>W8XAL-WLW, Mason, Ohio (Cincinnati, Ohio)</p> <p>6.060 49.48 Irregular</p> <p>W9XP-WENR, Downer's Grove, Ill. (Chicago, Ill.)</p> <p>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.</p>
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CFAC 690 500 Calgary, Alta. Calgary Herald.	CKAC 730 5000 Montreal, Que. La Presse Publishing Co., Ltd.
CFBO 1030 500 St. John, N. B. C. A. Munro, Ltd.	CKCD 1010 100 Vancouver, B. C. Vancouver Daily Province.
CFCA 1120 100 Toronto, Ont. Star Printing & Publishing Co.	CKCH 1210 100 Hull, Que. Dr. J. L. Chabot.
CFCF 600 400 Montreal, Que. Canadian Marconi Co.	CKCK 1010 500 Regina, Sask. Leader-Post, Ltd.
CFCH 930 100 North Bay, Ont. Northern Supplies, Ltd.	CKCL 580 100 Toronto, Ont. Dominion Battery Co., Ltd.
CFCN 1030 10000 Calgary, Alta. W. W. Grant & H. G. Love.	CKCO 1010 100 Ottawa, Ont. Dr. G. M. Geldert.
CFCO 1210 100 Chatham, Ont. John Beardall.	CKCR 645 100 Kitchener, Ont. William C. Mitchell and G. Liddle.
CFCT 1430 50 Victoria, B. C. Victoria Broadcasting Assn.	CKCV 1310 50 Quebec, Que. Vandry, Inc.
CFCY 630 500 Charlottetown, P. E. I. Island Radio Broadcasting Co., Ltd.	CKFC 1410 50 Vancouver, B. C. Radio Service Engineers, Ltd.
CFJC 1310 100 Kamloops, B. C. Review Publishing Co., Ltd.	CKIC 1010 50 Wolfville, N. S. Acadia University.
CFLC 930 100 Prescott, Ont. Radio Assn. of Prescott.	CKLW 540 5000 Windsor, Ont. Western Ontario Broadcasting Co., Ltd.
CFNB 1030 50 Fredericton, N. B. James S. Neill & Sons, Ltd.	CKMC 1210 100 Cobalt, Ont. R. L. MacAdam.
CFPL 730 100 London, Ont. Free Press & Printing Co., Ltd.	CKMO 1410 100 Vancouver, B. C. Sprott-Shaw Radio Co.
CFQC 890 500 Saskatoon, Sask. Electric Shop, Ltd.	CKNC 1030 100 Toronto, Ont. Canadian National Carbon Co., Ltd.
CFRB 690 10000 Toronto, Ont. Canadian Radio Corp., Ltd.	CKOC 1010 500 Hamilton, Ont. Wentworth Radio Broadcasting Co., Ltd.
CFRC 915 100 Kingston, Ont. Queens University.	CKOV 1200 100 Kelowna, B. C. Okanagan Broadcasters, Ltd., Box 243.
CHAB 1200 400 Moose Jaw, Sask. Moose Jaw Radio Assn.	CKPC 930 100 Preston, Ont. Cyrus Dolph.
CHCK 1310 100 Charlottetown, P. E. I. J. A. Gesner.	CKPR 780 100 Fort William, Ont. Dougall Motor Co., Ltd.
CHGS 1120 100 Summerside, P. E. I. R. T. Holman, Ltd.	CKTB 1200 100 St. Catharines, Ont. E. T. Sandell.
CHLP 1120 100 Montreal, Que. La Patrie Publishing Co., Ltd.	CKUA 580 500 Edmonton, Alta. University of Alberta.
CHMA 580 250 Edmonton, Alta. Christian and Missionary Alliance.	CKWX 730 100 Vancouver, B. C. Western Broadcasting Co., Ltd.
CHML 890 50 Hamilton, Ont. Maple Leaf Radio Co., Ltd.	CKX 930 500 Brandon, Man. Manitoba Telephone System.
CHNC 1210 100 New Carlisle, Que. Dr. Charles Houde.	CKY 910 5000 Winnipeg, Man. Manitoba Telephone System.
CHNS 1050 500 Halifax, N. S. Maritime Broadcasting Co., Ltd.	CKMB 1249 20 Pinar del Rio, Cuba. Jose Silvera, Marti No. 101.
CHRC 645 100 Quebec, Que. CHRC, Ltd.	CMAP 680 1000 Havana, Cuba. International Broadcasting Co., Miramar.
CHWC 1010 500 Regina, Sask. R. H. Williams & Sons, Ltd.	CMBC 1270 150 Havana, Cuba. Domingo Fernandez, Maximo Gomez No. 139.
CHWK 780 100 Chilliwack, B. C. Chilliwack Broadcasting Co., Ltd.	CMDB 965 150 Havana, Cuba. Luis Perez Garcia, Enamorados y Flores.
CJCA 730 500 Edmonton, Alta. Edmonton Journal, Ltd.	CMBG 1070 225 Havana, Cuba. John L. Stowers, Hospital No. 100.
CJCB 880 50 Sydney, N. S. Nathanson's Radio Headquarters.	CMBJ 1140 150 Havana, Cuba. Emilio Perera, Consulado y Virtudes.
CJCJ 690 500 Calgary, Alta. Albertan Publishing Co., Ltd.	CMBK 1445 15 Havana, Cuba. Alberto Alvarez, Paula y Oficios.
CJCS 780 500 Sudbury, Ont. George McLeod Coots.	CMBL 1445 200 Havana, Cuba. Julio C. Hidalgo, Vedado.
CJGX 630 500 Yorkton, Sask. Winnipeg Grain Exchange.	CMBN 1185 150 Havana, Cuba. G. de Sequeira, Agrimonte No. 32.
CJOC 840 100 Lethbridge, Alta. H. R. Carson, Ltd.	CMBS 780 200 Havana, Cuba. Enrique Artalejo, Calzada y H. St.
CJOR 1210 500 Vancouver, B. C. G. C. Chandler.	CMBW 925 600 Havana, Cuba. Alvarez, Moris y Cia, Obrapia No. 13.
CJRM 880 500 Moose Jaw, Sask. James Richardson & Sons, Ltd.	CMBY 1230 250 Havana, Cuba. Callejas-Estefani, Principe No. 33.
CJRW 880 500 Winnipeg, Man. James Richardson & Sons, Ltd.	CMZ 1010 150 Havana, Cuba. Manuel y G. Salas, San Rafael No. 14.

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CMC 840 500 Havana, Cuba. Radio Corp. of Cuba.	CMJO 1010 50 Ciego de Avila, Cuba. Jose M. Rey, C. Central & Maceo.
CMCA 1230 150 Havana, Cuba. Manuel Cruz, Ave. de Italia No. 102.	CMJP 1360 75 Moron, Cuba. Cesar Canall, Callejas No. 28.
CMCB 1070 150 Havana, Cuba. Metropolitan-Radio de Cuba.	CMK 730 3150 Havana, Cuba. National Broadcasting Co. of Cuba.
CMCD 1140 500 Havana, Cuba. Angel Bertematy.	CMKC 1034 150 Santiago, Cuba. Pino! Batlle y Co.
CMCF 890 250 Havana, Cuba. Raoul Karman.	CMKJ 1300 20 Guantanamo, Cuba. Luis Morlote, East Giro 11.
CMGH 1410 50 Havana, Cuba. Wifredo y Humberto Fontanals Sanchez.	CMQ 630 500 Havana, Cuba. Jose Fernandez, 25 Numero 445.
CMCJ 1185 500 Havana, Cuba. Rafael Rodriguez, Estevez No. 4.	CMW 590 1400 Havana, Cuba. Troncoso y Gil, Paseo de Marti 103.
CMCM 1410 15 Havana, Cuba. Aurelio Balino, Belas Coain No. 639.	CMX 890 1000 Havana, Cuba. Casa "Lavin," Ave. de la Republica 99A.
CMCN 1375 250 Havana, Cuba. Antonio Ginard, Reina y Ave. Buen Retiroe	CRCA 580 500 Moncton, N. B. Canadian Radio Broadcasting Commission.
CMCP 1270 150 Havana, Cuba. Jose A. Yaniz	CRCO 880 500 Ottawa, Ont. Canadian Radio Broadcasting Commission.
CMCQ 780 1000 Havana, Cuba. Andres Martinez, Vista Alegre No. 80.	CRCS 1500 100 Chicoutimi, Que. Canadian Radio Broadcasting Commission.
CMCR 1375 150 Havana, Cuba. Aurelio Hernandez.	CRCT 960 6000 Toronto, Ont. Canadian Radio Broadcasting Commission.
CMCU 630 500 Havana, Cuba. Jorge Garcia Serra.	CRCV 1100 500 Vancouver, B. C. Canadian Radio Broadcasting Commission.
CMCW 965 100 Havana, Cuba. Vilarino y Cervantes.	HHK 920 1000 Port-au-Prince, Haiti. Haitian Government.
CMCY 1320 500 Havana, Cuba. Manuel D. Autran, Ave. de la Pdt s 215.	HIH 1395 15 San Pedro de M., D. R.
CMDE 925 150 Havana, Cuba. Radio Aerial Ad.	HIJK 1180 15000 Santo Domingo, D. R.
CMGA 834 100 Colon, Cuba. L. Valdes Figueroa, Marti No. 19.	HIX 580 1500 Santo Domingo, O. R. J. R. Saladin, Director General
CMGB 1205 30 Matanzas, Cuba. Jose Anorga, Magdalena No. 1.	HJN 690 1000 Bogota, Colombia Government of Colombia, National Library.
CMGC 820 30 Matanzas, Cuba. Oscar S. Mechoso, Independencia No. 56.	HRB 1370 2300 Tegucigalpa, Hond.
CMGE 1375 30 Cardenas, Cuba. Genaro Sebater, Cespedes No. 180.	JRL 1350 7.5 San Pedro Sula, Hond.
CMGF 987 100 Matanzas, Cuba. Bernabe R. de la Torre.	KABC 1420 100 San Antonio, Texas. Alamo Broadcasting Co., Inc.
CMGH 1040 15 Matanzas, Cuba. Octavio y Julio Alvarez.	KALE 1300 500 Portland, Ore. Kale, Inc., New Heathman Hotel
CMHD 950 500 Caibarien, Cuba. Manuel Alvarez, M. Escobar 17.	KARK 890 250 Little Rock, Ark. Arkansas Radio & Equipment Co.
CMHI 1037 250 Santa Clara, Cuba. Lavis y Paz.	KASA 1210 100 Elk City, Okla. E. M. Woody, Casa Grande Hotel.
CMHJ 1190 60 Cienfuegos, Cuba. Victorino Lopez Hontanon.	KBPS 1420 100 Portland, Ore. Benson Polytechnic School
CMHK 1225 50 Cruces, Cuba. Virgilio Villaneuva Fernandez.	KBTM 1200 100 Paragould, Ark. Jay P. Beard.
CMHL 1290 20 Cienfuegos, Cuba. Oscar Zayas, San Carlos 143.	KCMC 1420 100 Texarkana, Ark. M. P. Mims, Box 865.
CMJC 1382 150 Camaguey, Cuba. Feliciano Isaac, Cisneros y G. Gomez.	KCRC 1370 100 Enid, Okla. Enid Radiophone Co.
CMJE 1175 50 Camaguey, Cuba. Manuel Fernandez, Plaza de Maceo.	KCRJ 1310 100 Jeromes, Ariz. Chas. C. Robinson, Drawer D.
CMJF 930 200 Camaguey, Cuba. John L. Stowers, Hotel Plaza.	KOB 1500 100 Santa Barbara, Calif. Santa Barbara Broadcasters, Ltd.
CMJG 1060 50 Camaguey, Cuba. Jose Antonio Lefran, Martires 133.	KDFN 1440 500 Casper, Wyo. Donald Lewis Hathaway.
CMJH 1160 50 Ciego de Avila, Cuba. Luis Marauri Mendosa.	KDKA 880 5000 Pittsburgh, Pa. Westinghouse Electric & Mfg. Co.
CMJI 1280 45 Ciego de Avila, Cuba. Gilberto Gessa Lopez, Independencia 95.	KOLR 1210 100 Devils Lake, N. D. KDLR, Inc., 1025 3rd Street.
CMJK 790 600 Camaguey, Cuba. Compania Cubana Nacional de Radio S. A.	KDYL 1290 1000 Salt Lake City, Utah. Intermountain Broadcasting Corp.
CMJL 960 50 Camaguey, Cuba. Enrique Artime, Cuba No. 27.	KECA 1430 1000 Los Angeles, Calif. Earle C. Anthony, Inc.
CMJN 1240 60 Camaguey, Cuba. Ernesto de Ugarriza, Martires 11.	KELW 780 500 Burbank, Calif. Magnolia Park, Ltd., 3702 Magnolia

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KERN 1200 100 Bakersfield, Calif. Bee Bakersfield Broadcasting Co.	KFSG 1120 500 Los Angeles, Calif. Echo Park Evangelistic Assn.
KEX 1180 5000 Portland, Ore. National Broadcasting Co.	KFUD 550 500 St. Louis, Mo. Evangelical Lutheran Church.
KFAB 770 5000 Lincoln, Neb. KFAB Broadcasting Co.	KFYD 1000 250 Los Angeles, Calif. E. L. Cord, 645 S. Mariposa.
KFAC 1300 1000 Los Angeles, Calif. E. L. Cord, 645 So. Mariposa.	KFVS 1210 100 Cape Girardeau, Mo. Oscar C. Hirsch, Box 275.
KFBB 1280 1000 Great Falls, Mont. Buttrey Broadcast, Inc.	KFWB 950 1000 Hollywood, Calif. Warner Bros. Motion Pictures, Inc.
KFBI 1050 5000 Abilene, Kans. Farmers & Bankers Life Ins. Co.	KFWF 1200 100 St. Louis, Mo. St. Louis Truth Center, Inc.
KFBK 1310 100 Sacramento, Calif. James McClatchy Publishing Co.	KFWI 930 500 San Francisco, Calif. Radio Entertainments, Ltd.
KFBL 1370 50 Everett, Wash. Leese Bros., 2814 Rucker Ave.	KFXD 1200 100 Nampa, Idaho. Frank E. Hurt, 1024 12th Ave., S.
KFDM 560 500 Beaumont, Texas. Sabine Broadcasting Co.	KFXF 920 500 Denver, Colo. Colorado Radio Corp.
KFDY 550 500 Brookings, S. D. South Dakota State College.	KFXJ 1200 100 Grand Jct., Colo. Western Slope Broadcasting Co.
KFEL 920 500 Denver, Colo. Eugene P. O'Fallon, Inc.	KFXM 1210 100 San Bernardino, Calif. Lee Bros. Broadcasting Co.
KFEQ 680 2500 St. Joseph, Mo. Seroggin & Co. Bank	KFXR 1310 100 Oklahoma City, Okla. Exchange Avenue Baptist Church.
KFGQ 1310 100 Boone, Iowa. Boone Biblical College.	KFYO 1310 100 Lubbock, Texas. Kirksey Bros., Hotel Lubbock.
KFH 1300 1000 Wichita, Kans. Radio Station KFH Co.	KFYR 550 1000 Bismarck, N. D. Mayer Broadcasting Co.
KFI 640 50000 Los Angeles, Calif. Earle C. Anthony, Inc.	KGA 1470 5000 Spokane, Wash. Northwest Broadcasting Co., Inc.
KFIO 1120 100 Spokane, Wash. Spokane Broadcasting Corp.	KGAR 1370 100 Tucson, Ariz. Tucson Motor Service Co.
KFIZ 1420 100 Fond du Lac, Wis. Reporter Printing Co.	KGB 1330 1000 San Diego, Calif. Don Lee, Inc., 1012 First St.
KFJB 1200 100 Marshalltown, Iowa. Marshall Electric Co.	KGBU 900 500 Ketchikan, Alaska. Alaska Radio & Service Co., Inc.
KFJI 1210 100 Klamath Falls, Ore. KFJI Broadcasters, Inc., Willard Hotel.	KGBX 1310 100 Springfield, Mo. KGBX, Inc.
KFJM 1370 100 Grand Forks, N. D. University of North Dakota.	KGBZ 930 500 York, Neb. Dr. Geo. R. Miller, 715 Grant Ave.
KFJR 1300 500 Portland, Ore. Ashley C. Dixon-KFJR, Inc.	KGCA 1270 100 Decorah, Iowa Charles W. Greenley
KFJZ 1370 100 Fort Worth, Texas. Fort Worth Broadcasters, Inc.	KGCR 1210 100 Watertown, S. D. Greater Kampska Radio Corp.
KFKA 880 500 Greeley, Colo. Mid-Western Radio Corp.	KCCU 1240 250 Mandan, N. D. Mandan Radio Assn.
KFKU 1220 500 Lawrence, Kans. University of Kansas.	KGCX 1310 100 Wolf Point, Mont. E. E. Kretsbach.
KFLV 1410 500 Rockford, Ill. Rockford Broadcasters, Inc.	KGDE 1200 100 Fergus Falls, Minn. C. L. Jaren.
KFNF 890 500 Shenandoah, Iowa. Henry Field Co.	KGDM 1100 250 Stockton, Calif. E. F. Poffer, 42 S. Calif. St.
KFOR 1210 100 Lincoln, Neb. Cornbelt Broadcasting Corp.	KGDY 1340 250 Huron, S. D. Voice of S. D., Inc., 347 Dakota Ave.
KFOX 1250 1000 Long Beach, Calif. Nicholas & Warinner, Inc.	KGEK 1200 100 Yuma, Colo. Elmer G. Beehler, 109 W. 2nd St.
KFPL 1310 100 Dublin, Texas. C. C. Baxter, Box 176	KGER 1360 1000 Long Beach, Calif. Consolidated Broadcasting Co.
KFPM 1310 15 Greenville, Texas. New Furniture Co.	KGEZ 1310 100 Kalispell, Mont. Donald C. Treloar, Box 1.
KFPW 1210 100 Fort Smith, Ark. Southwestern Hotel Co.	KGFF 1420 100 Shawnee, Okla. KGFF Broadcasting Co., Inc.
KFPY 1340 1000 Spokane, Wash. Symons Broadcasting Co.	KGFG 1370 100 Oklahoma City, Okla. Oklahoma Broadcasting Co., 1113 N. Broadway.
KFQD 800 250 Anchorage, Alaska Anchorage Radio Club, Inc.	KGFI 1500 100 Corpus Christi, Texas. Eagle Broadcasting Co., Inc.
KFRC 610 1000 San Francisco, Calif. Don Lee, Inc.	KGfJ 1200 100 Los Angeles, Calif. Ben S. McGlashan, 1417 S. Figueroa.
KFRU 630 500 Columbia, Mo. KFRU, Inc., 9th and Elm Sts.	KGFK 1500 100 Moorhead, Minn. Red River Broadcasting Co., Inc.
KFRS 600 1000 San Diego, Calif. Airfan Radio Corp., Ltd.	KGFL 1370 100 Roswell, N. M. KGFL, Inc., 507 N. Main St.

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KGFV 1310 100 Kearney, Neb. Central Nebraska Broadcasting Corp.	KIT 1310 100 Yakima, Wash. Valley Broadcasters, Inc.
KGFX 630 200 Pierre, S. D. Dana McNeil, 510 Summit Ave.	KJBS 1070 100 San Francisco, Calif. Julius Brunton & Sons Co.
KGGC 1420 100 San Francisco, Calif. Golden Gate Broadcasting Co.	KJR 970 5000 Seattle, Wash. Fishers Blend Station, Inc.
KGFF 1010 500 Coffeyville, Kans. Hugh J. Powell and Stanley Platz.	KLCN 1290 100 Blytheville, Ark. C. L. Lintzenich, Main and Division St.
KGGM 1230 250 Albuquerque, N. M. New Mexico Broadcasting Co.	KLO 1400 500 Ogden, Utah. Interstate Broadcasting Co.
KGHF 1320 250 Pueblo, Colo. C. P. Ritchie & Geo. J. Ikelman	KLPM 1240 250 Minot, N. D. John B. Cooley.
KGHI 1200 100 Little Rock, Ark. Lloyd Judd Co., Marion Hotel.	KLRA 1390 1000 Little Rock, Ark. Arkansas Broadcasting Co.
KGHL 950 1000 Billings, Mont. Northwestern Auto Supply Co.	KLS 1440 250 Oakland, Calif. Warner Bros., 2201 Telegraph Ave.
KGIR 1360 500 Butte, Mont. KGIR, Inc., 121 W. Broadway.	KLUF 1370 100 Galveston, Texas. Geo. R. Clough, 3327 Ave. P.
KGIW 1420 100 Trinidad, Colo. Leonard E. Wilson, 326 N. Commercial	KLX 880 1000 Oakland, Calif. Tribune Publishing Co.
KGIX 1420 100 Las Vegas, Nev. J. M. Heaton, Box 656.	KLZ 560 1000 Denver, Colo. Reynolds Radio Co., Inc.
KGIZ 560 500 Springfield, Mo. Grant City Park Corp.	KMA 900 500 Shenandoah, Iowa. Earl E. May Seed & Nursery Co.
KGKB 1500 100 Tyler, Texas. East Texas Broadcasting Co.	KMAC 1370 100 San Antonio, Texas. W. W. McAllister, Blue Bonnet Hotel.
KGKL 1370 100 San Angelo, Texas. KGKL, Inc., St. Angelus Hotel.	KMBC 950 1000 Kansas City, Mo. Midland Broadcasting Co.
KGKO 570 250 Wichita Falls, Texas. Wichita Falls Broadcasting Co.	KMED 1310 100 Medford, Ore. Mrs. W. J. Virgin, Sparta Bldg.
KGKY 1500 100 Scottsbluff, Neb. Hilliard Co., Inc., 1517½ Broadway.	KMJ 580 500 Fresno, Calif. James McClatchy Co.
KGMB 1320 250 Honolulu, T. H. Honolulu Broadcasting Co., 119 Merchant St.	KMLB 1200 100 Monroe, La. Liners Broadcasting Station, Inc.
KGNF 1430 500 North Platte, Neb. Great Plains Broadcasting Co.	KMMJ 740 1000 Clay Center, Neb. The M. M. Johnson Co.
KGNO 1340 250 Dodge City, Kans. KGNO Broadcasting Station	KMO 1330 250 Tacoma, Wash. KMO, Inc., Hotel Winthrop.
KGO 790 7500 San Francisco, Calif. National Broadcasting Co., Inc.	KMOX 1090 50000 St. Louis, Mo. The Voice of St. Louis, Inc.
KGRS 1410 1000 Amarillo, Texas. E. B. Gish, Bellaire Park.	KMPC 710 500 Beverly Hills, Calif. Beverly Hills Broadcasting Corp.
KGU 750 2500 Honolulu, T. H. Advertiser Publishing Co., Ltd.	KMTR 570 500 Hollywood, Calif. KMTR Radio Corp., 915 N. Formosa Ave.
KGVO 1200 100 Missoula, Mont. Mosbys, Inc., 240 N. Higgins.	KNOW 1500 100 Austin, Texas. Southwest Broadcasting Co.
KGW 620 1000 Portland, Ore. Oregonian Publishing Co.	KNX 1050 25000 Hollywood, Calif. Western Broadcast Co., Inc.
KGY 1210 100 Olympia, Wash. KGY, Inc., 11th and Capitol Way.	KOA 830 12,500 Denver, Colo. General Electric Co., 1370 Krameria St.
KHJ 900 1000 Los Angeles, Calif. Don Lee Broadcasting System.	KOAC 550 1000 Corvallis, Ore. Oregon State Agricultural College.
KHQ 590 1000 Spokane, Wash. Louis Wasmer, Inc.	KOB 1180 10000 Albuquerque, N. M. Albuquerque Journal, Box 667.
KICA 1370 100 Clovis, N. M. Southwest Broadcasting Co.	KOCW 1400 250 Tulsa, Okla. J. T. Griffin.
KICK 1420 100 Carter Lake, Iowa. Rel Oak Radio Corp.	KOH 1380 500 Reno, Nev. The Bee, Inc.
KID 1320 250 Idaho Falls, Idaho. KID Broadcasting Co., Inc.	KOIL 1260 1000 Council Bluffs, Iowa. Mona Motor Oil Co.
KIDO 1350 1000 Boise, Idaho. C. G. Phillips & Frank L. Hill.	KOIN 940 1000 Portland, Ore. KOIN, Inc., New Heathman Hotel.
KIDW 1420 100 Lamar, Colo. Lamar Broadcasting Co., Box 688	KOL 1270 1000 Seattle, Wash. Seattle Broadcasting Co.
KIEM 1210 100 Eureka, Calif. Harold H. Hanseth, Vance Hotel.	KOMA 1480 5000 Oklahoma City, Okla. National Radio Manufacturing Co.
KIEV 850 100 Glendale, Calif. Cannon System, Ltd., Glendale Hotel.	KOMO 920 1000 Seattle, Wash. Fishers Blend Station, Inc.
KIFH 1310 100 Juneau, Alaska Juneau Broadcasting Co.	KONO 1370 100 San Antonio, Texas. Mission Broadcasting Co., St. Anthony Hotel.
KIGY 1200 100 Lowell, Ariz. Copper Electric Co., Inc.	KOOS 1370 100 Marshfield, Ore. H. H. Hanseth, Hall Bldg.

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KORE 1420 100 Eugene, Ore. Frank L. Hill and Curtis G. Phillips.	KTSM 1310 100 El Paso, Texas. Tri-State Broadcasting Co., Inc.
KOY 1390 500 Phoenix, Ariz. Nielsen Radio & Sporting Goods Co.	KTW 1220 1000 Seattle, Wash. First Presbyterian Church.
KPCB 650 100 Seattle, Wash. Queen City Broadcasting Co.	KUJ 1370 100 Walla Walla, Wash. KUJ, Inc., Marcus Whitman Hotel.
KPJM 1500 100 Prescott, Ariz. Frank Mauthe, Box 852	KUMA 1420 100 Yuma, Ariz. Dr. A. H. Schermann, Box 267.
KPO 680 50000 San Francisco, Calif. National Broadcasting Co., Inc.	KUOA 1260 100 Fayetteville, Ark. KUOA, Inc., Washington Hotel.
KPOF 880 500 Denver, Colo. Pillar Of Fire, 1845 Champa St.	KUSD 890 500 Vermillion, S. D. University of South Dakota.
KPPC 1210 50 Pasadena, Calif. Pasadena Presbyterian Church.	KVI 570 500 Tacoma, Wash. Puget Sound Broadcasting Co., Tacoma Hotel.
KPQ 1500 100 Wenatchee, Wash. Wescoast Broadcasting Co.	KVL 1370 100 Seattle, Wash. KVL, Inc., 5th and Virginia St.
KPRC 920 1000 Houston, Texas. Houston Printing Co.	KVOA 1260 500 Tucson, Ariz. Robt. M. Rieulfi, Consolidated Bank Bldg.
KQV 1380 500 Pittsburgh, Pa. KQV Broadcasting Co., Investment Bldg.	KVOO 1140 5000 Tulsa, Okla. Southwestern Sales Corp.
KQW 1010 500 San Jose, Calif. Pacific Agricultural Foundation, Ltd.	KVOR 1270 1000 Colorado Springs, Colo. Reynolds Radio Co., Inc.
KRE 1370 100 Berkeley, Calif. First Congregational Church.	KVOS 1200 100 Bellingham, Wash. KVOS, Inc., Bellingham Hotel.
KREG 1500 100 Santa Ana, Calif. The Voice of the Orange Empire, Inc.	KWCR 1420 100 Cedar Rapids, Iowa. Cedar Rapids Broadcast Co.
KRGV 1260 500 Harlingen, Texas. KRGV, Inc.	KWEA 1210 100 Shreveport, La. Hello World Broadcasting Corp.
KRKD 1120 500 Los Angeles, Calif. Fireside Broadcasting Corp.	KWFF 1210 100 Hilo, Hawaii Hilo Broadcasting Co., Ltd.
KRLD 1040 10000 Dallas, Texas. KRLD Radio Corp., Adolphus Hotel.	KWG 1200 100 Stockton, Calif. McClatchy Newspapers, Inc.
KRMD 1310 100 Shreveport, La. Radio Station KRMD, Inc.	KWJJ 1060 500 Portland, Ore. KWJJ Broadcast Co., Inc., 328 Salmon St.
KROW 930 500 Oakland, Calif. Educational Broadcasting Corp.	KWK 1350 1000 St. Louis, Mo. Thomas Patrick, Inc., Hotel Chase.
KRSC 1120 100 Seattle, Wash. Radio Sales Corp., Washington Athletic Club.	KWKC 1370 100 Kansas City, Mo. Wilson Duncan Broadcasting Co.
KSAC 580 500 Manhattan, Kans. State College of Agriculture.	KWKH 850 10000 Shreveport, La. Hello World Broadcasting Corp.
KSCJ 1330 1000 Sioux City, Iowa. Perkins Bros. Co., 415 Douglas St.	KWLC 1270 100 Decorah, Iowa. Luther College.
KSD 550 500 St. Louis, Mo. Pulitzer Publishing Co.	KWSC 1220 1000 Pullman, Wash. State College of Washington.
KSEI 890 250 Pocatello, Idaho. Radio Service Corp., 141 S. 6th Ave.	KWWG 1260 500 Brownsville, Texas. Frank P. Jackson.
KSL 1130 50000 Salt Lake City, Utah. Radio Service Corp. of Utah.	KXA 760 250 Seattle, Wash. American Radio Tel. Co., 218 Bigelow Bldg.
KSO 1370 100 Des Moines, Iowa. Des Moines Register & Tribune.	KXL 1420 100 Portland, Ore. KXL Broadcasters, 269 Fine St.
KSOO 1110 1000 Sioux Falls, S. D. Jos. Henkin, 1613 S. Duluth Ave.	KXO 1500 100 El Centro, Calif. E. R. Irey and F. M. Bowles.
KSTP 1460 25000 St. Paul, Minn. National Battery Broadcasting Co.	KXRO 1310 100 Aberdeen, Wash. KXRO, Inc., Hotel Morek.
KTAB 560 1000 San Francisco, Calif. Associated Broadcasters, Inc.	KXYZ 1440 250 Houston, Texas. Harris County Broadcast Co.
KTAR 620 500 Phoenix, Ariz. KTAR Broadcasting Co.	KYA 1230 1000 San Francisco, Calif. Pacific Broadcasting Corp.
KTAT 1240 1000 Fort Worth, Texas. Southwest Broadcasting Co.	KYW 1020 10000 Chicago, Ill. Westinghouse Elec. & Mfg. Co.
KTBS 1450 1000 Shreveport, La. Tri-State Broadcasting System.	KZRM 618.5 50000 Manila, P. I. Erlanger and Gallinger, Inc.
KTFI 1240 1000 Twin Falls, Idaho. Radio Broadcasting Corp.	NAA 690 1000 Arlington, Va. United States Navy.
KTHS 1040 10000 Hot Springs, Ark. Chamber of Commerce.	RUS 664 500 San Salvador, E. S. Republic of El Salvador.
KTM 780 500 Los Angeles, Calif. Piekwick Broadcasting Corp., Ltd.	TGW 1350 500 Guatemala, Gua. Gobierno de Guatemala.
KTRH 1120 1000 Houston, Texas. KTRH Broadcasting Co., Rice Hotel.	TIC 882 15 San Jose, C. R.
KTSA 1290 1000 San Antonio, Texas. Southwest Broadcasting Co.	TICR 1180 30 San Jose, C. R. Government of Costa Rica.

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TIEA 833 7.5 San Jose, C. R.	WBAA 1400 500 West Lafayette, Ind. Purdue University.
TIEP 1450 7.5 San Jose, C. R.	WBAK 1430 1000 Harrisburg, Pa. Commonwealth of Pennsylvania.
TIFB 714 30 San Jose, C. R.	WBAL 1060 10000 Baltimore, Md. Consolidated Gas. Elec. Light & Power Co.
TIFS 1441 7.5 Cartago, C. R.	WBAP 800 50000 Fort Worth, Texas. Carter Publications, Inc.
TIGA 1014 30 Cartago, C. R.	WBAX 1210 100 Wilkes-Barre, Pa. John H. Stenger, Jr., 70 S. Main St.
TIGP 666 7.5 San Jose, C. R.	WBBC 1400 500 Brooklyn, N. Y. Brooklyn Broadcasting Corp.
TIRCA 1100 500 San Jose, C. R. Perry Grion, Apt. 225.	WBBL 1210 100 Richmond, Va. Grace Covenant Presbyterian Church.
TISO 600 50 San Jose, C. R.	WBBM 770 25000 Chicago, Ill. WBBM Broadcasting Corp., Wrigley Bldg.
TITV 999 7.5 San Jose, C. R.	WBBR 1300 1000 Brooklyn, N. Y. Peoples Pulpit Assn.
TIVL 860 30 San Jose, C. R.	WBBX 1200 100 New Orleans, La. Samuel D. Reeks, Marbere Hotel.
TIXA 614 7.5 San Jose, C. R.	WBBZ 1200 100 Ponca City, Okla. C. L. Carrell.
VAS 685 2000 Glace Bay, N. S. Canadian Marconi Co., Ltd.	WBCM 1410 500 Bay City, Mich. James E. Davidson, Hotel Wenonah.
VOAS 810 100 St. John's, N. F. Ayre & Sous, Ltd.	WBEN 900 1000 Buffalo, N. Y. WBen, Inc. (Buffalo Evening News.)
VOGY 890 100 St. John's, N. F. Newfoundland Broadcasting Co.	WBEO 1310 100 Marquette, Mich. Lake Superior Broadcasting Co., Inc.
VOKW 1300 30 St. John's, N. F. Cyril L. Parkins.	WBHS 1200 100 Huntsville, Ala. Radio Station WBHS, Inc.
VONF 1195 400 St. John's, N. F. Dominion Broadcasting Co., Ltd., Box 1355.	WBIG 1440 500 Greensboro, N. C. North Carolina Broadcasting Co., Inc.
VOVR 750 500 St. John's, N. F. Wesley United Church, Box 157.	WBNX 1350 250 New York, N. Y. New York Metropolitan Broadcasting Corp.
WAAB 1410 500 Boston, Mass. Bay State Broadcasting Corp., 1 Winter Pl.	WBOQ 860 50000 New York, N. Y. Atlantic Broadcasting Corp.
WAAF 920 500 Chicago, Ill. Chicago Daily Drivers Journal.	WBOW 1310 100 Terre Haute, Ind. Banks of Wabash, Inc. 24½ S. 6th.
WAAM 1250 1000 Newark, N. J. WODAAM Corp., 1060 Broad St.	WBRC 930 500 Birmingham, Ala. Birmingham Broadcasting Co., Inc.
WAAT 940 300 Jersey City, N. J. Bremer Broadcasting Corp., 50 Journal Sq.	WBRE 1310 100 Wilkes-Barre, Pa. Louis G. Baltimore, 16 N. Main.
WAAW 660 500 Omaha, Neb. Omaha Grain Exchange.	WBSO 920 500 Babson Park, Mass. Broadcasting Service Organization, Inc.
WABC 860 50000 New York, N. Y. Atlantic Broadcasting Corp.	WBT 1080 25000 Charlotte, N. C. Station WBT, Inc., Wilder Bldg.
WABI 1200 100 Bangor, Maine. First Universalist Society.	WBTM 1370 100 Danville, Va. Piedmont Broadcasting Corp.
WACO 1420 100 Waco, Texas. Southwest Broadcasting Co.	WBZ 990 25000 Boston, Mass. Westinghouse Elec. & Mfg. Co.
WADC 1320 1000 Akron, Ohio. Allen T. Simmons, P. O. Box 29.	WBZA 990 1000 Springfield, Mass. Westinghouse Elec. & Mfg. Co.
WAGM 1420 100 Presque Isle, Me. Aroostook Broadcasting Corp.	WCA@ 600 250 Storrs, Conn. Connecticut Agricultural College.
WAIU 640 500 Columbus, Ohio. Associated Radiocasting Corp.	WCAD 1220 500 Canton, N. Y. St. Lawrence University.
WALR 1210 100 Zanesville, Ohio. WALR Broadcasting Corp.	WCAE 1220 1000 Pittsburgh, Pa. WCAE, Inc., Sun-Telegraph.
WAMC 1420 100 Anniston, Ala. R. C. Hammett, 1200 Noble St.	WCAH 1430 500 Columbus, Ohio. International Bible Students Assn.
WAML 1310 100 Laurel, Miss. Southland Radio Corp.	WCAL 1250 1000 Northfield, Minn. St. Olaf College.
WAPI 1140 5000 Birmingham, Ala. WAPI Broadcasting Corp.	WCAM 1280 500 Camden, N. J. City of Camden, City Hall.
WARD 1400 500 Brooklyn, N. Y. United States Broadcasting Corp.	WCAO 600 250 Baltimore, Md. Monumental Radio Co.
WASH 1270 500 Grand Rapids, Mich. Kuusky-Trendle Broadcasting Corp.	WCAP 1280 500 Asbury Park, N. J. Radio Industries Broadcast Co.
WAWZ 1350 250 Zarephath, N. J. Pillar of Fire.	WCAT 1200 100 Rapid City, S. D. South Dakota State School of Mines.
WAZL 1420 100 Hazleton, Pa. Hazleton Broadcasting Service, Inc.	WACU 1170 50000 Philadelphia, Pa. WCAU 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 Broadestg. 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.
WDBO 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.
WDOO 1280 1000 Chattanooga, Tenn.
 WDOO 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.
WECB 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 Denmark, 3860 Ogden Ave.
WEED 1420 100 Greenville, N. C.
 Win. Avera Wynne.
WEEI 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. McCamy 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.
WFBR 1270 500 Baltimore, Md.
 Baltimore Radio Show, Inc.
WFDF 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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WGBI 880	250	Scranton, Pa. Scranton Broadcasters, Inc.	WHN 1010	250	New York, N. Y. Marcus Loew Booking Agency.
WGCM 1210	100	Mississippi City, Miss. Great Southern Land Co., Gulfport, Miss.	WHOM 1450	250	Jersey City, N. J. New Jersey Broadcasting Corp.
WGCP 1250	250	Newark, N. J. May Radio Broadcasting Co.	WHP 1430	500	Harrisburg, Pa. WHP, Inc., Harrisburg Telegraph.
WGES 1360	500	Chicago, Ill. Oak Leaves Broadcasting Station, Inc.	WIAS 1310	100	Ottumwa, Iowa. Iowa Broadcasting Co., Hotel Ottumwa.
WGH 1310	100	Newport News, Va. Hampton Roads Broadcasting Corp.	WIBA 1280	500	Madison, Wis. Badger Broadcasting Co., Inc.
WGL 1370	100	Fort Wayne, Ind. F. C. Zieg, 213 W. Main St.	WIBG 930	25	Glenside, Pa. WIBG, Inc., Keswick Bldg.
WGLC 1370	100	Hudson Falls, N. Y. O. T. Griffin & G. F. Bissell.	WIBM 1370	100	Jackson, Mich WIBM, Inc., Otsego Hotel.
WGN 720	25000	Chicago, Ill. WGN, Inc., Tribune Tower.	WIBU 1210	100	Poynette, Wis. Wm. C. Forrest, R. F. D. No. 3.
WGNV 1210	50	Chester, N. Y. Peter Goelet (Orange County).	WIBW 580	1000	Topeka, Kans. Topeka Broadcasting Assn. Inc.
WGR 550	1000	Buffalo, N. Y. Buffalo Broadcasting Corp.	WIBX 1200	100	Utica, N. Y. WIBX, Inc., 1st Natl. Bank Bldg.
WGST 890	250	Atlanta, Ga. Georgia School of Technology.	WICC 600	250	Bridgeport, Conn. Shepard Broadcasting Service, Inc.
WGY 790	50000	Schenectady, N. Y. National Broadcasting Co., Inc.	WIL 1200	100	St. Louis, Mo. Missouri Broadcasting Corp.
WHA 940	1000	Madison, Wis. University of Wisconsin.	WILL 890	250	Urbana, Ill. University of Illinois.
WHAD 1120	250	Milwaukee, Wis. Marquette University.	WILM 1420	100	Wilmington, Del. Delaware Broadcasting Co., Inc.
WHAM 1150	25000	Rochester, N. Y. Stromberg-Carlson Tel. Mfg. Co.	WIND 560	1000	Gary, Ind. Johnson-Kennedy Broadcasting Corp.
WHAS 820	25000	Louisville, Ky. Courier Journal & Louisville Times.	WINS 1180	500	New York, N. Y. American Radio News Corp.
WHAT 1310	100	Philadelphia, Pa. Curtis-Martin Newspapers, Inc.	WIOD 1300	1000	Miami, Fla. Isle of Dreams Broadcasting Corp.
WHAZ 1300	500	Troy, N. Y. Rensselaer Polytechnic Institute.	WIP 610	500	Philadelphia, Pa. Pennsylvania Broadcasting Co.
WHB 860	500	Kansas City, Mo. WHB Broadcasting Co., Searritt Bldg.	WIS 1010	500	Columbia, S. C. Station WIS, Inc., 1811 Main St.
WHBC 1200	100	Canton, Ohio. Edw. P. Graham, 319 Tusc. St., W.	WISN 1120	250	Milwaukee, Wis. American Radio News Corp.
WHBD 1370	100	Mount Orab, Ohio. F. P. Moler.	WJAC 1310	100	Johnstown, Pa. WJAC, Inc., Tribune Bldg. Annex.
WHBF 1210	100	Rock Island, Ill. Rock Island Broadcasting Co.	WJAG 1060	1000	Norfolk, Neb. Norfolk Daily News.
WHBL 1410	500	Sheboygan, Wis. Press Publishing Co.	WJAR 890	500	Providence, R. I. Outlet Co., Weybossett St.
WHBQ 1370	100	Memphis, Tenn. Broadcasting Sta. WNBQ, Inc., Hotel Claridge.	WJAS 1290	1000	Pittsburgh, Pa. Pittsburgh Radio Supply House.
WHBU 1210	100	Anderson, Ind. Anderson Broadcasting Corp.	WJAX 900	1000	Jacksonville, Fla. City of Jacksonville.
WHBY 1200	100	Green Bay, Wis. WHBY, Inc., Bellin Bldg.	WJAY 610	500	Cleveland, Ohio. Cleveland Radio Broadcasting Corp.
WHDF 1370	100	Calumet, Mich. Upper Michigan Broadcasting Co.	WJBC 1200	100	LaSalle, Ill. Kaskaskia Broadcasting Co.
WHDH 830	1000	Boston, Mass. Matheson Radio Co., 62 Boylston.	WJBI 1210	100	Red Bank, N. J. Monmouth Broadcasting Co., Inc.
WHDL 1420	100	Tupper Lake, N. Y. Tupper Lake Broadcasting Co.	WJBK 1370	50	Detroit, Mich. James F. Hopkins, Inc., Curtiss Bldg.
WHEB 740	250	Portsmouth, N. H. Granite State Broadcasting Corp.	WJBL 1200	100	Decatur, Ill. Commodore Broadcasting, Inc.
WHEC 1430	500	Rochester, N. Y. WHEC, Inc., 40 Franklin St.	WJBO 1420	100	New Orleans, La. Baton Rouge Broadcasting Co., Inc.
WHEF 1500	100	Kosciusko, Miss. Attala Milling & Produce Co.	WJBW 1200	100	New Orleans, La. C. C. Carlson, 2743 Dumaine St.
WHET 1210	100	Troy, Ala. Troy Broadcasting Co.	WJBY 1210	100	Gadsden, Ala. Ingram's Broadcasting Co., 112 N. 8th St.
WHFC 1420	100	Cicero, Ill. WHFC, Inc., 6138 W. 22nd St.	WJBX 1270	1000	Jackson, Miss. Lamar Life Insurance Co.
WHIS 1410	250	Bluefield, W. Va. Daily Telegraph Printing Co., Inc.	WJEJ 1210	100	Hagerstown, Md. Hagerstown Broadcasting Co., Inc.
WHK 1390	1000	Cleveland, Ohio. Radio Air Service Corp.			

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WJJD 1130 20000 Chicago, Ill. WJJD, Inc., 201 N. Wells St.	WLS 870 50000 Chicago, Ill. Agricultural Broadcasting Co.
WJMS 1420 100 Ironwood, Mich. WJMS, Inc., St. James Hotel.	WLTH 1400 500 Brooklyn, N. Y. Voice of Brooklyn, Inc.
WJR 750 10000 Detroit, Mich. WJR, Inc., Fisher Bldg.	WLVA 1370 100 Lynchburg, Va. Lynchburg Broadcasting Corp.
WJSV 1460 10000 Washington, D. C. Old Dominion Broadcasting Co.	WLW 700 50000 Cincinnati, Ohio. Crosley Radio Corp.
WJTL 1370 100 Atlanta, Ga. Oglethorpe University.	WLWL 1100 5000 New York, N. Y. Missionary Society of St. Paul.
WJW 1210 100 Akron, Ohio. WJW, Inc., 41 S. High St.	WMAL 630 250 Washington, D. C. National Broadcasting Co., Inc.
WJZ 760 50000 New York, N. Y. National Broadcasting Co., Inc.	WMAQ 670 5000 Chicago, Ill. National Broadcasting Co., Inc.
WKAQ 1240 1000 San Juan, P. R. Radio Corp. of Porto Rico.	WMAS 1420 100 Springfield, Mass. WMAS, Inc., Hotel Stonehaven.
WKAR 1040 1000 East Lansing, Mich. Michigan State College.	WMAZ 1180 500 Macon, Ga. Southeastern Broadcasting Co.
WKBB 1310 100 Joliet, Ill. Richard W. Hoffman, Joliet Natl. Bank Bldg.	WMBC 1420 100 Detroit, Mich. Michigan Broadcasting Co.
WKBC 1310 100 Birmingham, Ala. R. B. Broyles, Tutwiler Hotel.	WMBD 1440 500 Peoria, Ill. Peoria Broadcasting Co.
WKBF 1400 500 Indianapolis, Ind. Indianapolis Broadcasting, Inc.	WMBG 1210 100 Richmond, Va. Havens and Martin, Inc.
WKBH 1380 1000 LaCrosse, Wis. WKBH, Inc., 409 Main St.	WMBH 1420 100 Joplin, Mo. W. M. Robertson.
WKBI 1420 100 Cicero, Ill. WKBI, Inc., 6138 W. 22nd St.	WMBI 1080 5000 Chicago, Ill. Moody Bible Institute.
WKBN 570 500 Youngstown, Ohio. WKBN Broadcasting Corp.	WMBO 1310 100 Auburn, N. Y. WMBO, Inc., Metcalf Bldg.
WKBV 1500 100 Connerville, Ind. Wm. O. Knox, Box 286	WMBQ 1500 100 Brooklyn, N. Y. Paul J. Golhofer, 95 Leonard St.
WKBW 1480 5000 Buffalo, N. Y. Buffalo Broadcasting Corp.	WMBR 1370 100 Tampa, Fla. F. J. Reynolds, 907 Florida Ave.
WKBZ 1500 100 Ludington, Mich. Karl L. Ashbacher & Sons.	WMC 780 500 Memphis, Tenn. Commercial Appeal, Inc., Hotel Gayoso.
WKEU 1500 100 LaGrange, Ga. Radio Station WKEU, 906 Hill St.	WMCA 570 500 New York, N. Y. Knickerbocker Broadcasting Co.
WKFI 1210 100 Greenville, Miss. J. Pat Scully, Box 302.	WMED 1420 100 Florence, Ala. Kathryn Jones.
WKJC 1200 100 Lancaster, Pa. Lancaster Broadcasting Service, Inc.	WMIL 1500 100 Brooklyn, N. Y. Arthur Faske, 1525 Pitkin Ave.
WKOK 1210 100 Sunbury, Pa. Sunbury Broadcasting Co.	WMMN 890 250 Fairmont, W. Va. A. M. Rowe, Inc., 325 Adams St.
WKRC 550 1000 Cincinnati, Ohio. WKRC, Inc., Hotel Alms.	WMPC 1500 100 Lapeer, Mich. First Methodist Protestant Church.
WKY 900 1000 Oklahoma City, Okla. Oklahoma Publishing Co.	WMSG 1350 250 New York, N. Y. New York Metropolitan Broadcasting Corp.
WKZO 590 1000 Kalamazoo, Mich. John E. Fetzer, Burdick Hotel.	WMT 600 500 Waterloo, Iowa. Waterloo Broadcasting Co.
WLAC 1470 5000 Nashville, Tenn. Life & Casualty Insurance Co.	WNAC 1230 1000 Boston, Mass. Shepard Broadcasting Service, Inc.
WLAP 1200 100 Louisville, Ky. American Broadcasting Corp. of Ky.	WNAD 1010 500 Norman, Okla. University of Oklahoma.
WLB 1250 1000 Minneapolis, Minn. University of Minnesota.	WNAX 570 1000 Yankton, S. D. The House of Gurney, Inc., 2nd and Capital St.
WLBC 1310 50 Muncie, Ind. D. A. Burton, Anthony Bldg.	WNB 1500 100 Binghamton, N. Y. Howitt-Wood Radio Co., Inc.
WLBF 1420 100 Kansas City, Kans. WLBF Broadcasting Co., Huron Bldg.	WNBH 1310 100 New Bedford, Mass. New Bedford Broadcasting Co.
WLBL 900 2500 Stevens Point, Wis. Wisconsin Dept. of Agriculture and Markets.	WNBO 1200 100 Silver Haven, Pa. John Brownlee Spriggs. (Washington, Pa.)
WLBW 1250 500 Erie, Pa. Broadcasters of Pennsylvania, Inc.	WNBZ 1430 500 Memphis, Tenn. Memphis Broadcasting Co., Hotel DeVoy.
WLBZ 620 500 Bangor, Me. Maine Broadcasting Co., Inc., 100 Main.	WNBW 1200 10 Carbondale, Pa. WNBW, Inc., 50 Main St., N.
WLEC 1340 250 Portland, Me. Casco Bay Broadcasting Co.	WNBX 1260 250 Springfield, Vt. WNBX Broadcasting Corp., 39 Main St.
WLEY 1370 100 Lexington, Mass. Albert S. Moffat	WNZ 1290 50 Saranac Lake, N. Y. Smith & Mace, 70 Broadway.
WLIT 560 500 Philadelphia, Pa. Lit Bros. Broadcasting System, Inc.	WNOX 560 1000 Knoxville, Tenn. WNOX, Inc.

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WNYC 810	500	New York, N. Y. Dept. of Plant and Structures.	WRAC 1370	100	Williamsport, Pa. WRAC, Inc., 244 W. 4th St.
WOAI 1190	50000	San Antonio, Texas. Southern Equipment Co., 1038 Navarro.	WRAM 1370	100	Wilmington, N. C. Wilmington Radio Assn., Princess St.
WOBU 580	250	Charleston, W. Va. WOBU, Inc., Ruffner Hotel.	WRAW 1310	100	Reading, Pa. Reading Broadcasting Co., 533 Penn St.
WOC- 1000	50000	Des Moines, Iowa.	WRAX 1020	250	Philadelphia, Pa.
WHO 1000	50000	Central Broadcst. Co., 914 Walnut St.	WRAN	Broadcasting Co., 217 S. Broad St.	
WOCL 1210	50	Jamestown, N. Y. A. E. Newton, 840 N. Main St.	WRBL 1200	100	Columbus, Ga. WRBL Radio Station, Inc.
WODA 1250	1000	Paterson, N. J. WODAAM Corp., 115 Ellison St.	WRBX 1410	250	Roanoke, Va. Richmond Development Corp.
WODX 1410	500	Mobile, Ala. Mobile Broadcasting Corp., Battle House.	WRC 950	500	Washington, D. C. National Broadcasting Co., Inc.
WOI 640	5000	Ames, Iowa. Iowa State College.	WRDO 1370	100	Augusta, Me. WRDO, Inc., Augusta House.
WOKO 1430	500	Albany, N. Y. WOKO, Inc., Hotel Ten Eyck.	WRDW 1500	100	Augusta, Ga. Virgil V. Evans Co., 309 8th St.
WOL 1310	100	Washington, D. C. American Broadcasting Co., Annapolis Hotel.	WRFC 600	500	Memphis, Tenn. WRFC, Inc., Hotel Peabody.
WOMT 1210	100	Manitowoc, Wis. Francis M. Kadow, Box 326.	WREN 1220	1000	Lawrence, Kans. Jenny Wren Co., 8th and Vermont St.
WOOD 1270	500	Grand Rapids, Mich. Kunsky-Trendle Broadcasting Corp.	WRHM 1250	1000	Minneapolis, Minn. Minnesota Broadcasting Corp., 115 E. Grant.
WOPI 1500	100	Bristol, Tenn. Radiophone Broadcasting Station WOPI, Inc.	WRJM 1370	100	Racine, Wis. Racine Broadcasting Corp., Hotel Racine.
WOQ 1300	1000	Kansas City, Mo. Unity School of Christianity.	WRNY 1010	250	New York, N. Y. Marcus Loew Booking Agency.
WOR 710	5000	Newark, N. J. Bamberger Broadcasting Service, Inc.	WROL 1310	100	Knoxville, Tenn. Stuart Broadcasting Corp., 524 S. Gav.
WORC 1280	500	Worcester, Mass. Alfred F. Kleindienst, 60 Franklin St.	WRR 1280	500	Dallas, Texas. City of Dallas, Hilton Hotel.
WORK 1000	1000	York, Pa. York Broadcasting Co., 15 S. Beaver St.	WRUF 830	500	Gainesville, Fla. State University.
WOS 630	500	Jefferson City, Mo. State Highway Control, Capitol Bldg.	WRVA 1110	5000	Richmond, Va. Larus & Bro. Co., Inc., 22nd and Gary St.
WOSU 570	750	Columbus, Ohio. Ohio State University.	WSAI 1330	500	Cincinnati, Ohio. Crosley Radio Corp., 1329 Arlington.
WOV 1130	1000	New York, N. Y. International Broadcasting Corp.	WSAJ 1310	100	Grove City, Pa. Grove City College.
WOW 590	1000	Omaha, Neb. Woodmen of the World, 4th and Farman	WSAN 1440	250	Allentown, Pa. WSAN, Inc., 39 10th St.
WOWO 1160	10000	Fort Wayne, Ind. Main Auto Supply Co., 213 W. Main.	WSAR 1450	250	Fall River, Mass. Doughty & Welch Electric Co., Inc.
WPAD 1420	100	Paducah, Ky. Paducah Broadcasting Co., Inc.	WSAZ 1190	1000	Huntington, W. Va. WSAZ, Inc., 929½ 4th Ave.
WPAP 1010	250	New York, N. Y. Marcus Loew Booking Agency.	WSB 740	5000	Atlanta, Ga. Atlanta Journal, 7 N. Forsyth St.
WPEN 1500	100	Philadelphia, Pa. William Penn Broadcasting Co.	WSBC 1210	100	Chicago, Ill. Gene T. Dyer, 1258 S. Michigan Ave.
WPFB 1370	100	Hattiesburg, Miss. Hattiesburg Broadcasting Co., Box 530.	WSBT 1230	500	South Bend, Ind. South Bend Tribune.
WPG 1100	5000	Atlantic City, N. J. Columbia Broadcasting System.	WSEN 1210	100	Columbus, Ohio. Columbus Broadcasting Corp., 144 S. High.
WPHR 1200	100	Petersburg, Va. WLBG, Inc., Medical Arts Bldg.	WSFA 1410	500	Montgomery, Ala. Montgomery Bldg. Co., Inc., Jeff. Dav. H'l.
WPRO 1210	100	Providence, R. I. Cherry & Webb Broadcasting Co., 15 Chestnut.	WSIX 1210	100	Springfield, Tenn. 638 Tire & Vulcanizing Co.
WPTF 690	5000	Raleigh, N. C. Durham Life Insurance Co.	WSJS 1310	100	Winston-Salem, N. C. Winston-Salem Journal Co., 416 N. Marshall.
WQAM 560	1000	Miami, Fla. Miami Broadcasting Co., Inc., 327 N. E. 1st Ave.	WSM 650	50000	Nashville, Tenn. National Life & Accident Insurance Co.
WQAN 880	250	Scranton, Pa. Scranton Times, 149 Penn Ave.	WSMB 1320	500	New Orleans, La. WSMB, Inc., Maison Blanche Bldg.
WQAO 1010	250	New York, N. Y. Marcus Loew Booking Agency.	WSMK 1380	200	Dayton, Ohio. S. M. Krohn, Jr., 4th and Main St.
WQBC 1360	500	Vicksburg, Miss. Delta Broadcasting Co., Hotel Vicksburg.	WSOC 1210	100	Gastonia, N. C. WSOC, Inc., Box 730.
WQDM 1370	100	St. Albans, Vt. A. J. St. Antoine and E. J. Regan.	WSPA 1420	100	Spartanburg, S. C. Virgil V. Evans, Ravenel and Avant St.
WQDX 1210	100	Thomasville, Ga. Stevens Luke, 135 E. Jackson St.	WSPD 1340	1000	Toledo, Ohio. Toledo Broadcasting Co., 505 Jefferson

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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 Bldg.
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.
 Kinsky-Trendle Broadcasting Corp.
XEA 1000 250 Guadalajara, Jal.
 Alberto Palos Souza.
XEAB 1450 7.5 Nuevo Laredo, Tams.
 Horacio Mattei A. y Homberto 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 Nacional 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.
 Tamava 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.
 Cervencia 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.
 Cadena 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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	XETH 860 100	Puebla, Pue. Ramon Huerta G.			XFG 638.3 2000	Mexico City, D. F. Secretaria de Guerra y Marina.
	XETM 845 150000	Matamoros, Tams. Miguel Muzquiz.			XFO 940 5000	Mexico City, D. F. National Revolucionario Party.
	XETR 610 1000	Mexico City, D. F. Cia Difusora Mexicana S. A.			XFX 860 500	Mexico City, D. F. Secretaria de Educacion Publica.
	XETU 890 100	Pachuca, Hdgo. Rodrigo Manriquez.			YV1BC 960 5000	Caracas, Venez. Cia Ama Almacen Americana.
	XETW 815 500	Mexico City, D. F. Rafael M. Pena.			YV2BC 882 100	Caracas, Venez.
	XEU 1010 100	Veracruz, Ver. Fernando Pazos Sosa.			YV3BC 1200 1000	Caracas, Venez. Degwitz & Siblesz.
	XEW 910 5000	Mexico City, D. F. Cadena Radiodifusora Mexicana S. A.			10-AK 1200 15	Stratford, Ont. M. I. Higgins, 151 Ontario St.
	XEX 1210 500	Mexico City, D. F. "Excelsior" Cia Editorial S. A.			10-AT 1155 25	Trail, B. C. Trail Amateur Radio Assn.
	XEY 546.8 10	Merida, Yuc. Partido Socialista del Surest.			10-B1 1200 25	Prince Albert, Sask. Prince Albert Radio Club.
	XEZ 630 500	Merida, Yuc.			10-BP 1200 25	Wingham, Ont. W. T. Cruickshank.
	XFB 1290 500	Jalapa, Ver. Gobierno del Estado de Veracruz.			10-BQ 1200 15	Brantford, Ont. Tom and Harold Brown.
	XFC 805 350	Aguascalientes, Ags. Gobierno del Estado de Aguascalientes.			10-BU 1200 15	Canora, Sask. 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.

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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.
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DJB, Germany, 15.190.	KAZ, Philippines, 9.990.	*WMC, U. S. A., 14.582.
DJC, Germany, 6.017.	*KKP, Hawaii, 16.024.	*WNN, U. S. A., 15.055.
DJD, Germany, 11.753.	*KWU, U. S. A., 15.344.	W1XAL, U. S. A., 6.040.
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GBB, England, 13.500.	OXY, Denmark, 9.520.	W3XAU, U. S. A., 9.585, 6.057.
GBN, England, 12.148.	PHI, Holland, 17.761, 11.725.	W3XL, U. S. A., 6.421.
GBT, 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.	PPU, Brazil, 19.270.	W9XF, U. S. A., 6.100.
GSE, England, 9.510.	PRADO, Ecuador, 6.618.	XAM, Mexico, 11.187.
GSC, England, 9.385.	*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, 13.357.
GSF, England, 15.140.	RXP, 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.	TIR, Costa Rica, 14.545, 7.685.	YV2AM, Venezuela, 14.102.
HBP, Switzerland, 8.772.	TI4NRH, 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.	VE9DH, 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.

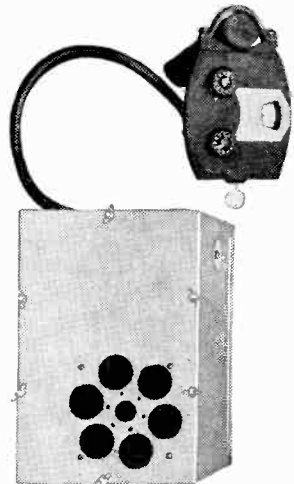
		Broadcast B. Phone P.					
4.174	71.82	British Ships	P	8.831	33.95	British Ships	P
4.174	71.82	German Ships	P	9.168	32.70	YVR, Maracay, Venezuela	P
4.283	70.00	Italian Ships	P	9.273	32.33	GCB, Rugby, England. Phones Canada nights	P
4.513	66.43	VPN, Nassau, Bahamas, Phones Hialeah	P	9.340	32.10	CGA, Drummondville, Quebec. Phones England, nights	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 WNB.GMBJ nights	P	9.503	31.55	VK3ME, Melbourne, Australia. Wed., 5-6:30 a.m.; Sat., 5-7 a.m.	P
5.793	51.75	HJ1ABB, Barranquilla, Colombia. 8 to 10 p.m., daily	B	9.510	31.53	GSB, Daventry, England. To S. Africa 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. daily	B	9.510	31.52	YV3BC, Caracas, Venezuela. Sun., 7:30-9:30 p.m.; Mon., 9-10 p.m.	B
		HJ4ABE, Medellin, Colombia. Mon. Wed., Fri., 7:30-9:30 p.m.	B	9.520	31.49	OXY, Skamleback, Denmark. 2-6:30 p.m.	B
6.005	49.93	VE9DR, Montreal, Quebec. Daily, 7:30 a.m.-mid.; Sunday, noon-11 p.m.	B	9.530	31.46	W2XAF, Schenectady, N. Y. 7-10 p.m.	B
6.017	49.83	DIJ, Zeesen, Germany	B	9.552	31.38	DJA, Zeesen, Germany. 3-9 p.m.	B
6.040	49.64	W1XAL, Boston, Mass. Mon. to Fri., 9-10 p.m. Sat., 6-7 p.m. Sun., 12-2 and 7:30-9:30 p.m.	B	9.560	31.36	W1XAZ, Millis, Mass. 6 a.m.-mid.	B
6.050	49.56	GSA, Daventry, England. 1-5:30 p.m.	B	9.580	31.30	HBL, Geneva, Switzerland, Sun., 5-5:45 p.m.	B
6.057	49.50	W3XAU, Philadelphia, Pa. 7 p.m.-mid.	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
6.076	49.34	W9XAA, Chicago, Ill. 3-6 p.m. daily	B	9.585	31.28	VK2ME, Sydney, Australia. Sun., 12:30-2:30 a.m.; 4:30-8:30 a.m.; 9:30-11:30 a.m.	B
6.080	49.31	YV3BC, Caracas, Venezuela	B	9.592	31.25	W3XAU, Philadelphia, Pa., 11 a.m.-5 p.m.	B
6.090	49.23	VE9BJ, St. John, N. B., 5 p.m. and 11 p.m.	B	9.600	31.23	CT1AA, Lisbon, Portugal. Tues.-Fri., 5-7 p.m.	B
6.092	49.22	VE9GW, Bowmanville, Ont., Mon., Thur., 8 a.m.-noon; Thurs., Fri., 4-8 p.m.; Sat., 4 p.m.-mid.; Sun., 11 a.m.-9 p.m.	B	9.670	31.00	XETE, Mexico City, Mex., 2:30-5 p.m.; 6:30 pm.-mid.	B
6.096	49.17	W3XAL, Boundbrook, N. J., Sat., 4:30 p.m.-1 a.m.	B	9.862	30.40	T14NRH, Heredia, Costa Rica. Daily. 6:30-7:30 p.m.	B
6.100	49.15	W9XF, Chicago, Ill., Sat., silent; Sun., 1-2:30, 4:30-7 and 9 p.m.-2 a.m.; other days. 4:30-8 p.m.; 9:30 p.m.-2 a.m.	B	9.862	30.40	EAQ, Madrid, Spain. 5:30-7 p.m.; Sat., 1-3 p.m.	B
6.112	49.10	YV1BC, Caracas, Venezuela, 5:15-10 p.m.	B	9.895	30.30	J1AA, Kemikawa-Cho, Japan, 5:30-7:30 a.m.	B
6.116	49.02	W2XE, Wayne, N. J., 6-11 p.m.	B	9.990	30.01	LSN, Buenos Aires, Argentina, 6 p.m. and 6 a.m.	P
6.121	48.98	VE9HX, Halifax, N. S. Sat. and Sun., 5:30-10:30 p.m.	B	10.060	29.80	KAZ, Manila, P. I., 3-7 a.m.	P
6.134	48.87	YV3BC, Caracas, Venezuela, Sat., 9-10 p.m.	B	10.163	29.50	*VRT-ZFB, Hamilton, Bermuda. Phones WNB days	P
6.140	48.83	W8XX, Pittsburgh, Pa. Relays KDKA 4:30 p.m.-12:30 a.m.	B	10.212	29.35	German Ships	P
6.421	46.69	W3XL, Boundbrook, N. J. Exp. PRADO, Riobamba, Ecuador, Thur. 9-11 p.m.	B	10.285	29.15	PSH, Rio de Janeiro, Brazil. Tests W2XBJ evenings	P
6.618	45.31	Seattle, night	P	10.345	28.98	DIQ, Nauen, Germany	B
6.662	45.00	WXH, Ketchikan, Alaska. Phones	P	10.520	28.50	LSX, Buenos Aires, Argentina	P
7.139	42.00	HJ4ABB, Nanzales, Colombia. Sat., 11 p.m.-mid.; Wed., 8-10 p.m.; Sun., 3-5 p.m.	B	10.601	28.28	VK2ME, Sydney, Australia. Irreg.	P
7.465	40.16	*HJP, Bogota, Colombia. Phones Hialeah	P	11.187	26.80	WEA, Rokey Point, N. Y. Exp.	P
7.605	39.42	*KWX, Dixon, Calif. Phones Hawaii and Manila	P	11.710	25.60	XAM, Merida, Yucatan	P
7.685	39.01	TIR, Cartago, Costa Rica. Phones Hialeah	P	11.710	25.60	VE9JR, Winnipeg, Manitoba. Tues., 6:30-8:30 p.m.; Fri., to 9	P
7.872	38.47	HBP, Geneva, Switzerland, Sun., 5-5:45 p.m.	B	11.750	25.51	Pontoise, France, 3-5 p.m.; 7:11 p.m.	B
8.218	36.36	CNR, Rabat, Morocco, Sun., 2:30-5 p.m.	B	11.753	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
8.328	36.00	German Ships	P	11.760	25.50	DJD, Koemigwusterhausen, Germany. 1-6 p.m.	B
8.562	35.02	*WOO, Ocean Gate N. J. Phones Ships	P	11.800	25.40	*XDA, Mexico City. Tests XAM 1 p.m. and 6 p.m.	P
8.566	35.00	Italian Ships	P			I2RO, Rome Italy. 11 a.m.-12:30 p.m.; 1-6 p.m.	B

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	B
			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-	B
			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	PHH, Huizen, Holland.	5:40-11:40 a.m.	B
13.296	22.55	CGA, Drummondville, Que.	9 a.m.-2	P			DJE, Koenigswusterhausen, Germany	8:30 a.m. to 12:30 p.m.	B
			p.m.	P	17.772	16.87	GSG, Daventry, England.	6-8 a.m. and	B
13.337	22.48	*YVQ, Maracay, Venezuela.	Phones Hialeah, days	P				8:30 a.m. to 12:30 p.m.	B
				P	18.116	16.55	W3XAL, Boundbrook, N. J.	12:30 to	B
13.500	22.09	GRB, Rugby, England.	Talks Canada	P	18.295	16.39	LSY, Buenos Aires, Argentina	6:30 p.m. daily except Sat.	B
			daytimes	P			*YVR, Maracay, Venezuela.	Heard about	P
14.102	21.26	YV2AM, Maracaibo, Venezuela.	6:30-11:30 a.m., Sunday	B				10 a.m.	P
14.450	20.75	GBW, Rugby, England.	6 a.m. and 6 p.m.	P	18.444	16.25	*HJY, Bogota, Colombia.	11 a.m. and	P
				P				4 p.m.	P
14.480	20.70	YNA, Managua, Nicaragua.	Phones Hialeah, days	P	18.611	16.11	GAU, Rugby, England.	Phones N. Y.,	P
				P				days	P
		TIR, Cartago, Costa Rica.	Phones Hialeah, days	P	18.670	16.06	*OCI, Lima, Peru.	2 p.m.	P
				P	18.855	15.90	ZSS, Capetown, South Africa.	Phones	P
14.545	20.69	*RXF, Panama City, Panama.	Phones Hialeah, days	P				London, mornings	P
				P	19.270	15.57	PFU, Rio de Janeiro, Brazil		P
		TGA, Guatemala City, Guatemala.		P	19.282	15.55	FTM, Ste. Assise, France.	10 a.m.-2 p.m.	P
				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 days	P					P
				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. and 4 p.m.	P
15.055	19.91	*WNC, Hialeah, Florida.	Phones Pan-American stations, days	P					P
				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.; 1-4:30 p.m.; 6-8 p.m.; 11:30 p.m.	B	21.069	14.23	PSA, Rio de Janeiro, Brazil.	8 a.m.	P
				B	21.400	14.01	*WKK, Lawrenceville, N. J.	8 a.m.-4 p.m.	P
				B					P
15.190	19.73	DJB, Zeesen, Germany.	8 a.m.-noon	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

ACTING 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-ke 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	XEY	Merida, Yuc., 105 to 10
550	KFDY	Brookings, S. D., 1000 to 500
560	KFUO	St. Louis, Mo., 1000 to 500
560	KGIZ	Springfield, Mo., 100 to 500
560	XEAO	Mexico, Mex., 7.5 to 100
570	WOSU	Columbus, Ohio, 1000 to 750
580	HLX	Santo Domingo, D. R., 1000 to 1500
585	XEPN	Padras Negras, Coah., 10000 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	XEPF	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	Gadalaajara, 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 70
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	TCWV	Guatemala City, Gua., 250 to 500
1360	CMMP	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	HLX	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	Agua Calientes, Ags., from 810
815	XETW	Mexico City, Mex., from 830
840	CJOC	Lethbridge, Alta., from 580
860	XETH	Puebla, Pue., from 810
960	CRCT	Toronto, Ont., from 840
1010	CMJO	Ciego de Avila, Cuba, from 1110
1020	XFS	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	TCWV	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.

"Of all the magazines that I purchase, RADEX is the only one that I read from cover to cover. In fact, I read it all on the first day I receive it and then can't wait until the next issue."—Archie Williams, 401 Front Street, Evanston, Wyo.

"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 WPCB 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 Tainueu, 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 KFUL Galveston, Texas
 1310 WKAV Laconia, N. H.
 1370 KGDA Mitchell, S. D.
 1370 WJEQ Williamsport, Pa.
 1395 CMDB Havana, Cuba.
 1420 KGKN Sand Point, Idaho
 1485 CMBR Havana, Cuba.
 1500 WLOE Boston, Mass.

NEW

630 XEZ Merida, Yuc.
 730 CPPL London, Ont.
 780 CJCS Sudbury, Ont.
 1000 XEAE Mexicali, B. C.
 1100 THCA 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 WEED 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 KFLX

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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A "SLATE" for Your Radio Programs

How annoying it is to miss some favorite feature because you forgot this was the night or the hour for it.

Use our Radio "Slate" and you won't miss the programs you want to hear.

Four pages; printed on fine Bristol board so entries may be erased and kept up-to-date.

Spaces for each 15-minute period for every evening of the week and Sunday afternoon.

Price, 10 cents each, two for 15c,
four for a quarter

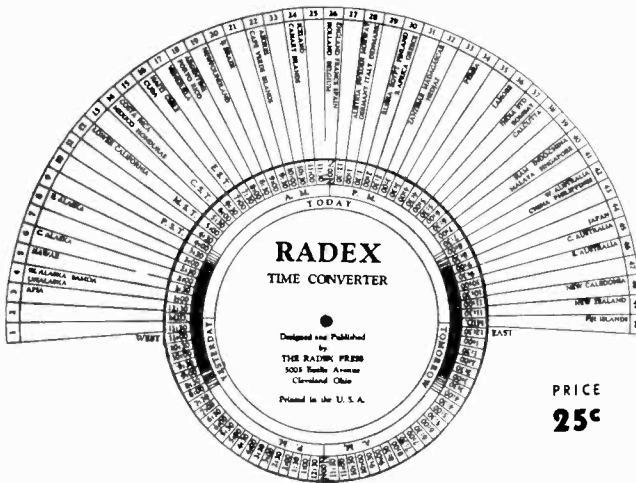
RADIO PROGRAMS

Time	MONDAY		TUESDAY	
	Program	Call/Dial	Program	Call/Dial
6:00				
6:15				
6:30				
6:45				
7:00				
7:15				
7:30				
7:45				
8:00				
8:15				
8:30				
8:45				
9:00				
9:15				
9:30				
9:45				
10:00				
10:15				
10:30				
10:45				
11:00				
11:15				
11:30				
11:45				
12:00				

Actual size 5 x 7 inches

RADEX RADIO MAP of the WORLD

Showing all Countries and their Principal Cities
with Call Letters and Time Zones of each Country



PRICE
25¢

Just turn the dial to the time in your zone and—Presto: Change—there is the time for every other place in the world.

No adding; no subtracting; no trying to figure which is yesterday, today or tomorrow. The dial does it all.

Big map of the world showing all principal cities and their time zones.

Only a Quarter Postpaid to any country.

DIRECTIONS—Turn the desired hour, either A.M. or P.M., in the sector marked "TODAY" opposite your own zone and the correct time in all other zones in the world will be shown. It will also be indicated which of the other zones are "Yesterday" and which are "Tomorrow". The position of twilight, darkness and dawn is graphically shown. Or, if you "Yesterday" and which are "Tomorrow". The position of twilight, darkness and dawn is graphically shown. Or, if you desire to tune in a New Zealand program, turn the hour of the program (say 9:00 a.m.) in the New Zealand sector and you will find that it is 4:30 A.M. some day in Eastern Standard Time or 11 P.M. yesterday in Hawaii.

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At Last—

A REAL WORLD GLOBE

Every Radio Fan Can Afford to Own

Right up to the minute and so large every state in the U. S. A. and all the principal cities are plainly shown. Twelve inches in diameter—nearly 39 inches in circumference—beautifully printed in many colors. Ball is substantial metal.

A wonderful addition to the radio set and a big help to the children in the home. Only with a globe can you get a true picture of the relative position of one country to another.

This is the first globe for a low price we have found that was large enough to be worth-while. Get yours before the price goes up.



We regret that the size of this globe is too large to ship parcel post outside the U. S.

PRICE ONLY

\$5.50

POSTPAID ANYWHERE IN THE
U. S. A.

The Radex Press Inc.

HANNA BUILDING
CLEVELAND, OHIO