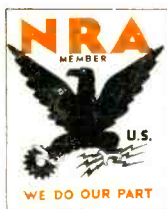


THE DECEMBER 1933

# RADIO INDEX

THE ALL-WAVE RADIO MAGAZINE



25<sup>c</sup>

30 cents  
in Canada  
Including  
Tax

How to Hear Admiral Byrd's Station  
Monthly Frequency Checks by States  
The Police Broadcasting Stations  
The Beginner's Story of Radio  
How Radio Buyers are Gyped

No. 74

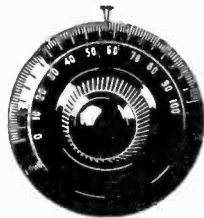
DECEMBER 1, 1933



# RADIO IN DEX

Reg. U. S. Patent Office

FRED CLAYTON BUTLER  
*Editor and Publisher*



B. FRANCIS DASHIELL  
*Technical Editor*

PAGE TAYLOR  
*Short Wave Editor*

TENTH YEAR

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With Fred Waring on "Old Gold Hour"

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# DECEMBER DX CALENDAR

A list of the special programs for distant listeners arranged in order in Eastern Standard Time. Power is given in kilowatts in parentheses. Distant readers should note that those programs which occur weekly will probably be repeated on the same day of the week in January. Excellent opportunity to log nearly 300 small stations is provided in the frequency checks the first seven mornings of each month. See September RADEX for list by days and November issue for list by frequencies.

## SUNDAY MORNINGS

Nov 26

2:00-4:00—KGKB, Tyler, 1500 (.1)

Dec. 3-10-17-24-31

12:00-1:00—CMBW, Havana, 1140 (.6)  
 CMX, Havana, 890 (1)  
 KSO, Des Moines, 1370 (1)  
 XETW, Mexico City, 830 (.5)  
 12:00-1:30—WMBC, Detroit, 1420 (1)  
 12:00-3:00—CMCD, Havana, 925 (.5)  
 WGES, Chicago, 1360 (.5)  
 1:00-2:00—WCCO, Minneapolis, 810 (50)  
 WDDO, Chattanooga, 1280 (1)  
 1:00-2:30—XEAB, Tamaulipas, 1450 (.0075)  
 1:00-4:00—CMBD, Havana, 965 (.25)  
 2:00-3:00—CMCJ, Havana, 1185 (.5)  
 WMMN, Fairmont, 890 (.25)  
 2:00-5:00—CMCU, Havana, 1100 (.5)  
 KPJM, Prescott, 1500 (1)  
 3:00-4:00—KFXM, San Bernardino, 1210 (1)  
 KGER, Long Beach, 1360 (1)  
 KIT, Yakima, 1310 (1)  
 3:00-5:00—CKOV, Kelowna, 1200 (1)  
 KVL, Seattle, 1370 (1)  
 10-AT, Trail 1155 (.025)  
 3:00-6:00—XEPD, \*Tijuana, 757 (5)  
 4:00-5:00—CFJC, Kamloops, 1120 (1)  
 CMJK, Camaguey, 790 (.5)  
 4:00-6:00—XEFV, Juarez, 1370 (1)  
 \*P. O. Box 1441, San Diego, Calif.

Dec. 3

11:00-3:00\*—LR5, Buenos Aires, 830 (20)  
 2:00-3:00—KDYI, Salt Lake City, 1290 (1)  
 3:00-4:00—CHGS, Summerside, 1120 (1)  
 \*Sometime between these hours.

Dec. 3, Jan. 7

1:00-2:00—WWAE, Hammond, 1200 (1)  
 2:30-4:30—10-BI, Prince Albert, 1200 (.025)

Dec. 3-17, Jan. 7

5:00-6:00—XFB, Jalapa, 1290 (1)

Dec. 10

1:00-1:30—WKY, Oklahoma City, 900 (1)  
 1:00-2:00—KUSD, Vermillion, 890 (.5)  
 XEFW, Tampico, 1280 (.07)  
 2:00-3:00—KOH, Reno, 1380 (.5)  
 3:00-4:00—WNR4, Muscle Shoals, 1420 (1)  
 WOS, Jefferson City, 630 (.5)  
 3:30-4:30—CKWX, Vancouver, 1010 (1)  
 4:00-5:00—WBBZ, Ponca City, 1200 (1)  
 VE9EK, Montmagny, 1195 (.01)  
 4:30-6:00—10-BP, Wingham, 1200 (.015)

Dec. 10-17-24-31

1:00-3:30—WIBM, Jackson, 1370 (1)

Dec. 10-24

4:00-5:00—CMGF, Matanzas, 977 (.1)

Dec. 17

1:00-1:30—WHEB, Portsmouth, 740 (.25)  
 1:00-5:00—KOOS, Marshfield, 1370 (1)  
 2:00-3:00—WOL, \*Washington, 1310 (1)  
 3:00-4:30—KFOX, Long Beach, 1250 (1)  
 3:00-5:00—KGNO, Dodge City, 1340 (.25)  
 KMJ, Fresno, 580 (.5)  
 WGBI, Scranton, 880 (.25)  
 WHAZ, Troy, 1300 (.5)  
 WJEJ, Hagerstown, 1210 (1)  
 3:00-7:00—KGIR, Butte, 1360 (.5)

4:00-5:00—KFJZ, Ft. Worth, 1370 (1)

WKUE, La Grange, 1500 (1)

\*Must enclose postage and have postmark not later than following Monday midnight.

Dec. 24

1:00-2:00—CMHJ, Cienfuegos, 1125 (.06)  
 3:00-4:00—KREG, Santa Ana, 1500 (1)  
 3:00-5:00—WFAS, White Plains, 1210 (1)  
 4:00-5:00—WAZL, Hazelton, 1420 (1)

Jan. 7

12:00-3:00—WCNW, Brooklyn, 1500 (1)  
 2:00-3:00—KF DY, Brookings, 550 (.5)

MONDAY MORNINGS

Dec. 4-11-18-25

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

Dec. 4

12:00-3:00—WCNW, Brooklyn, 1500 (1)

Dec. 4, Jan. 1

12:00-4:00—KOOS, Marshfield, 1370 (1)  
 3:00-5:00—KPCB, Seattle, 650 (1)  
 3:45-4:00—KUJ, Walla Walla, 1370 (1)

Dec. 11

2:00-3:00—WDAS, Philadelphia, 1370 (1)  
 3:30-4:30—WHBU, \*Anderson, 1210 (1)  
 \*Wants 5 cents for verification.

Dec. 18

3:00-4:00—KDB, Santa Barbara, 1500 (1)

Dec. 25

5:00-6:00—WHK, Cleveland, 1390 (1)

Dec. 25, Jan. 1

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

Jan. 1

4:00-5:00—CHRC, Quebec, 930 (.1)  
 1:00-2:00—XEPN, Piedras Negras, 585 (75)

TUESDAY MORNINGS

Dec. 5-12-19-26

12:00-1:00—XEH, Monterrey, 1132 (25)  
 1:00-1:30—WTOC, Savannah, 1260 (.5)  
 1:00-3:00—CMCW, Havana, 965 (.15)  
 1:00-4:00—WSUI, Iowa City, 830 (.5)  
 4:00-5:00—WCAH, Columbus, 1430 (.5)  
 5:00-6:00—WAWZ, Zarephath, 1350 (.25)

Dec. 5

1:00-1:30—WHBL, Sheboygan, 1410 (.5)  
 1:00-3:00—WOWO, Ft. Wayne, 1160 (10)

Dec. 5, Jan. 2

5:00-5:30—WKFI, Greenville, 1210 (1)

Dec. 26

4:00-5:00—CHRC, Quebec, 930 (1)

Jan. 2

1:00-2:00—CMHJ, Cienfuegos, 1125 (.06)  
 2:30-4:00—CHWK, Chilliwaek, 730 (1)

WEDNESDAY MORNINGS

Dec. 6-13-20-27

6:00-7:00—WASH, Grand Rapids, 1270 (.5)

Dec. 6, Jan. 3

1:00-2:30—KFYR, Bismarek, 550 (1)  
 4:30-5:00—WCAL, Northfield, 1250 (1)

Dec. 20

3:00-7:00—WOPI, Bristol, 1500 (.1)

**THURSDAY MORNINGS**

Nov. 30

12:00-7:00—WNBH, New Bedford, 1310 (.1)  
12:30-1:30—HIX, Santo Domingo, 579-6000 (1.5)

Dec. 7-14-21-28

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

Dec. 7, Jan. 4

1:00-2:00—KFYO, Lubbock, 1310 (.1)  
3:00-4:00—WRDW, Augusta, 1500 (.1)  
4:30-5:00—WCBS, Springfield, 1210 (.1)  
5:30-7:00—KGFF, Shawnee, 1420 (.1)

Dec. 14

2:00-3:00—WRUF, Gainesville, 830 (5)

**FRIDAY MORNINGS**

Dec. 1

2:00-3:00—WRAW, Reading, 1310 (.1)

Dec. 1-8-15-22-29

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

\*Prizes to most distant.

Dec. 1-15, Jan. 1

1:00-2:00—HHH, San Pedro de M., 1395 (.015)

Dec. 15

3:00-4:00—WHBQ, Memphis, 1370 (1)

Dec. 22

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

Dec. 29

4:00-5:00—KPOF, Denver, 880 (5)

**SATURDAY MORNINGS**

Dec. 2

2:00-4:00—WIBX, Utica, 1200 (.1)  
2:30-4:00—CHWK, Chilliwack, 780 (.1)  
4:00-11:00—KFNF, Shenandoah, 890 (1)

Dec. 2-9-16-30

1:00-3:00—CMCW, Havana, 965 (.15)

Dec. 2-9-16-23-30

4:00-5:00—XEAO, Mexicali, 560 (.1)

Dec. 2-23, Jan. 6

2:00-3:00—XES, Tampico, 1020 (.5)

Dec. 2-Jan. 6

3:00-4:00—WJBC, La Salle, 1200 (.1)  
4:00-6:00—KVOA, Tucson, 1260 (.5)  
4:15-4:45—WGNV, Chester, N. Y., 1210 (1)

Dec. 9

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

Dec. 9-16-23-30

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

Dec. 16

1:00-2:00—CKLW, Windsor, 810 (5)  
2:00-3:00—WHA, Madison, 940 (1)  
WOQ, Kansas City, 1300 (1)

Dec. 23

1:00-7:00—WHET, Troy, 1210 (.1)  
2:00-5:00—KRMD, Shreveport, 1310 (1)

Jan. 6

2:00-3:00—CMBS, Havana, 780 (2)  
4:00-5:00—WIS, Columbia, 1010 (.5)

Note: On either Dec. 17 or Dec. 18, FQN, St. Pierre, Miquelon, will broadcast for the I. D. A. on 570 with 250 watts. 3:00-4:00 a.m.

**THE FREQUENCY CHECKS BY STATES AND CITIES**

As the monthly frequency checks conducted by the Federal Radio Commission provide most unusual opportunity for logging hard-to-get stations, we are giving the schedule once more. In September we listed these checks by days of the week. In November they were listed by frequency. This month we are indexing them by states and cities so that our readers may readily tune those stations in which they need to complete their roster of the states. Each of these checks continues for twenty minutes after the time stated. Call letters are to be announced every three minutes. Checks are held first seven days of each month.

**ALABAMA**

Anniston WAMC 1420 3:50 Tues.  
Birmingham WKBC 1310 2:30 Thur.  
Gadsden WJBY 1210 2:30 Tues.  
Huntsville WBHS 1200 2:10 Tues.  
Mobile WODX 1410 5:00 Thur.  
Troy WHET 1210 3:10 Tues.

**ALASKA**

Anchorage KFQD 1230 5:50 Mon.  
Juneau KIFH 1310 6:00 Mon.  
Ketchikan KGBU 900 4:10 Mon.

**ARIZONA**

Jerome KCRJ 1310 5:50 Tues.  
Prescott KPJM 1500 4:10 Tues.  
Tucson KGAR 1370 5:40 Tues.

**ARKANSAS**

Blytheville KLCN 1290 3:00 Sun.  
Fayetteville KUOA 1250 5:40 Sun.  
Ft. Smith KFPW 1210 3:10 Sat.  
Little Rock KARK 890 4:50 Sun.  
KGHI 1200 3:30 Wed.  
KBTM 1200 3:50 Wed.  
Paragould KCMC 1420 5:10 Thur.  
Texarkana

**CALIFORNIA**

Bakersfield KERN 1200 4:20 Tues.  
Berkeley KRE 1370 5:20 Tues.  
Eureka KIEM 1210 4:40 Tues.  
El Centro KXO 1500 4:30 Tues.

Oakland KLS 1440 4:50 Tues.  
Stockton KGDM 1100 6:00 Tues.  
KWG 1200 4:00 Tues.

**COLORADO**

Alamosa KGIW 1420 3:10 Wed.  
Denver KPOF 880 5:10 Sun.  
Grand Junct. KFXJ 1200 4:50 Sat.  
Greeley KFKA 880 5:30 Sun.  
Lamar KIDW 1420 3:40 Wed.  
Pueblo KGHF 1320 5:30 Wed.  
Yuma KGEK 1200 3:30 Fri.

**CONNECTICUT**

Bridgeport WICC 600 4:40 Mon.  
Storrs WCAC 600 5:10 Mon.

**FLORIDA**

Miami WQAM 560 4:20 Thur.  
Orlando WDBO 580 4:00 Thur.  
Pensacola WCOA 1340 3:40 Thur.  
Tampa WDAE 1220 4:30 Thur.  
WMBR 1370 3:00 Tues.

**GEORGIA**

Americus WENC 1420 4:30 Tues.  
Augusta WRDW 1500 3:00 Thur.  
Columbus WRBL 1200 2:50 Tues.  
LaGrange WKEU 1500 2:40 Tues.  
Savannah WTOG 1260 5:10 Thur.  
Thomasville WQDX 1210 2:00 Tues.

<b>HAWAII</b>				<b>MISSISSIPPI</b>			
Honolulu	KGMB	1320	5:10 Tues.	Greenville	WKFI	1210	4:00 Tues.
	KGU	750	5:30 Tues.	Hattiesburg	WPFB	1370	4:20 Tues.
<b>IDAHO</b>				Kosciusko	WHEF	1500	3:30 Tues.
Nampa	KFXD	1200	5:00 Mon.	Laurel	WAML	1310	5:20 Tues.
<b>ILLINOIS</b>				Meridian	WCOC	880	4:50 Thur.
Carthage	WCAZ	1070	4:40 Wed.	Miss. City	WGCM	1210	2:50 Thur.
Chicago	WAAF	920	5:40 Wed.	Tupelo	WJEM	990	4:40 Thur.
	WCRW	1210	5:30 Fri.	Vicksburg	WQBC	1360	3:50 Thur.
	WEDC	1210	3:20 Thur.	<b>MISSOURI</b>			
	WSBC	1210	3:40 Thur.	Cape Girardeau	KFVS	1210	4:10 Sat.
Cicero	WHFC	1420	3:30 Thur.	Joplin	WMBH	1420	5:40 Fri.
Decatur	WJBL	1200	4:50 Fri.	St. Louis	WEW	760	5:20 Sat.
E. Dubuque	WKBB	1310	3:00 Wed.		WIL	1200	5:20 Wed.
Harrisburg	WEBQ	1210	4:00 Thur.	Springfield	KGXB	1310	5:00 Thur.
Joliet	WCLS	1310	4:40 Fri.	<b>MONTANA</b>			
LaSalle	WJBC	1200	3:00 Sat.	Billings	KGHL	950	4:20 Sat.
Rockford	KFLV	1410	3:50 Wed.	Kalispell	KGEZ	1310	5:20 Mon.
Rock Island	WHBF	1210	4:20 Thur.	Missoula	KGVO	1200	4:20 Mon.
Springfield	WCBS	1210	4:40 Thur.	Wolf Point	KGCX	1310	5:40 Mon.
	WTAX	1210	5:00 Thur.	<b>NEBRASKA</b>			
Tuscola	WDZ	1070	5:00 Wed.	Kearney	KGFV	1310	5:20 Thur.
<b>INDIANA</b>				Scottsbluff	KGKY	1500	4:00 Wed.
Anderson	WHBU	1210	5:20 Thur.	<b>NEVADA</b>			
Elkhart	WTRC	1310	3:20 Wed.	Las Vegas	KGIX	1420	5:00 Tues.
Fort Wayne	WGL	1370	3:10 Sat.	<b>NEW JERSEY</b>			
Hammond	WVAE	1200	3:20 Sat.	Jersey City	WAAT	940	4:50 Mon.
Muncie	WLBC	1310	3:30 Sat.	Red Bank	WJBI	1210	2:10 Sat.
Richmond	WKBV	1500	4:50 Thur.	Zarephath	WAWZ	1350	4:10 Sat.
South Bend	WFAM	1200	3:40 Sat.	<b>NEW MEXICO</b>			
Terre Haute	WBOW	1310	4:00 Wed.	Albuquerque	KGGM	1230	5:50 Sat.
<b>IOWA</b>				Clovis	KICA	1370	3:20 Wed.
Boone	KFGQ	1310	4:20 Thur.	Roswell	KGFL	1370	4:10 Wed.
Cedar Rapids	KWCR	1420	5:00 Fri.	<b>NEW YORK</b>			
Decorah	KGCA	1270	4:00 Sat.	Albany	WOKO	1430	3:00 Sat.
	KWLC	1270	3:40 Sat.	Auburn	WMBO	1310	3:40 Mon.
Iowa City	WSUI	880	5:40 Sat.	Binghamton	WNBF	1500	2:20 Mon.
Marshalltown	KFJB	1200	4:40 Wed.	Brooklyn	WMBO	1500	2:40 Sat.
Ottumwa	WIAS	1310	4:40 Thur.	Buffalo	WCNV	1500	2:00 Mon.
<b>KANSAS</b>					WEBR	1310	2:00 Wed.
Dodge City	KGNO	1340	3:50 Sat.		WSVS	1370	3:30 Mon.
Kansas City	WLBF	1420	5:20 Fri.	Canton	WCAD	1220	4:00 Mon.
<b>KENTUCKY</b>				Chester	WGNV	1210	2:30 Sat.
Louisville	WLAP	1200	5:50 Fri.	Elmira	WESG	1040	4:30 Mon.
Paducah	WPAD	1420	3:10 Fri.	Freeport	WGBB	1210	2:50 Sat.
<b>LOUISIANA</b>				Hudson Falls	WGLC	1370	3:50 Mon.
Baton Rouge	WJBO	1420	2:40 Thur.	Jamestown	WOCL	1210	3:50 Wed.
Monroe	KMLB	1200	3:40 Tues.	New York	WBNX	1350	3:50 Sat.
Non Orleans	WBBX	1200	4:40 Tues.	Saranac Lake	WNBZ	1290	4:20 Mon.
	WJWB	1200	5:10 Tues.	Syracuse	WSYR	570	5:00 Mon.
Shreveport	KRMD	1310	3:00 Fri.	Tupper Lake	WHDL	1420	2:50 Mon.
	KTBS	1450	3:10 Sun.	Utica	WIBX	1200	3:20 Mon.
<b>MAINE</b>				White Plains	WFAS	1210	2:10 Mon.
Bangor	WABI	1200	2:40 Mon.	Woodside	WWRL	1500	2:20 Sat.
Presque Isle	WAGM	1420	2:30 Mon.	<b>NORTH CAROLINA</b>			
<b>MARYLAND</b>				Charlotte	WSOC	1210	2:00 Thur.
Cumberland	WTBO	1420	3:40 Mon.	Greensboro	WBIG	1440	3:30 Thur.
<b>MASSACHUSETTS</b>				Wilmington	WRAM	1370	5:00 Tues.
Springfield	WMAS	1420	2:00 Sat.	Winston-Salem	WSJS	1310	3:20 Tues.
<b>MICHIGAN</b>				<b>NORTH DAKOTA</b>			
Battle Creek	WELL	1420	3:30 Fri.	Devils Lake	KDLR	1210	4:30 Sat.
Bay City	WBCM	1410	3:30 Wed.	Grand Forks	KFJM	1370	4:30 Thur.
Calumet	WHDF	1370	5:20 Fri.	Mandan	KGCU	1240	4:00 Fri.
Detroit	WJBK	1370	5:00 Fri.	Minot	KLPM	1240	4:20 Fri.
	WMBC	1420	3:50 Fri.	<b>OHIO</b>			
E. Lansing	WKAR	1040	5:30 Wed.	Akron	WJW	1210	3:00 Fri.
Flint	WFDF	1310	4:00 Fri.	Canton	WHBC	1200	3:10 Wed.
Ironwood	WJMS	1420	3:10 Thur.	Cincinnati	WFBE	1200	4:10 Fri.
Jackson	WIBM	1370	5:30 Thur.	Cleveland	WJAY	610	4:00 Sat.
Kalamazoo	WKZO	590	3:50 Sat.	Columbus	WSEN	1210	3:20 Fri.
Lapeer	WMPC	1500	4:10 Thur.	Mt. Orab	WHBD	1370	5:10 Thur.
Ludington	WKBB	1500	4:30 Thur.	Zanesville	WALR	1210	3:40 Fri.
Marquette	WBEO	1310	4:20 Wed.	<b>OKLAHOMA</b>			
Royal Oak	WEXL	1310	4:20 Fri.	Chickasha	KOCV	1400	3:50 Sun.
<b>MINNESOTA</b>				Elk City	KASA	1210	3:30 Sat.
Fergus Falls	KGDE	1200	5:00 Wed.	Enid	KCRC	1370	4:10 Fri.
Minneapolis	WLB	1250	5:10 Wed.	Norman	WNAD	1010	5:20 Sun.
Moorhead	KGFK	1500	5:50 Fri.	<i>(Continued on page 46)</i>			
Northfield	WCAL	1250	4:30 Wed.				

# The BEGINNERS'

## STORY of RADIO

### PART THREE

#### Electromagnetic Induction and Transformers

● ● ● By B. FRANCIS DASHIELL

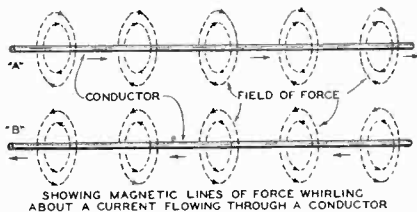
WE HAVE found that electricity flows steadily, as in the case with direct current, and that it also may periodically reverse its direction, as alternating current. Let us, then, take up the interesting subject of how an electric current can be transferred from one circuit to another, across an insulating air space, while at the same time it is amplified in strength. The practicable application of this remarkable phenomenon is the *transformer*, which makes possible the radio and audio-frequency amplification so necessary in radio reception.

Most of us are familiar with the *magnet*—a steel bar that possesses the peculiar faculty of attracting bits of iron. The two ends of a magnet are called “north” and “south” poles, usually indicated by N and S, respectively. Opposite poles attract each other, and similar poles repel. Then there are millions of “*lines of force*” existing about a magnet. They seem to stream from one pole to another. These lines, passing through the air, actually may be seen if the magnet is covered with a sheet of thin paper and then dusted over with fine iron filings.

#### The Magnetic Field

When any electric current is flowing it is surrounded by a whirling *magnetic field* composed of lines of force always spinning around the conductor as a center. The direction of rotation of the lines of force about the wire depends upon the direction in which the electric current is flowing through the circuit. A simple rule to remember is, that if a wire is grasped

with the right hand so the *extended* thumb points along the wire in the direction in which the current is flowing, the fingers will then curl around the wire and point along the direction in which the lines of force are whirling, always at right angles to the conductor.



SHOWING MAGNETIC LINES OF FORCE WHIRLING ABOUT A CURRENT FLOWING THROUGH A CONDUCTOR

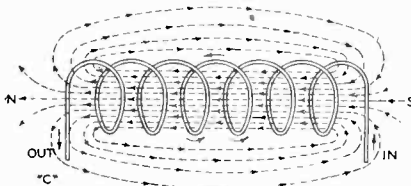
In the illustration “A” we see a conductor carrying an electric current moving as indicated by the arrows. The direction of the whirls of magnetic force about the conductor is shown by the encircling arrows. The same wire is shown again at “B,” but with the current direction reversed. We readily see that the whirls of force also reverse direction. Now, if an alternating current is flowing through the wire, the magnetic lines of force also change direction every time the current reverses its direction. The number of alternations of current is the same as the frequency of the reversal of the magnetic field surrounding the conductor. It is important that the reader remember this through the following paragraphs.

#### A Source of Interference

Wires carrying high voltage alternating currents, such as power lines,

have surrounding magnetic fields that encompass all nearby aerials and create constant hum and interference. And there is little or nothing that can be done about such interference unless the receiver and aerial wires are removed from the field of force.

Let us form a wire into a single loop. All of its encircling whirls or lines of force will pull together, and a more powerful magnetic field will be built up about the loop. Now, if a number of these loops are arranged in a form of a spring-like *coil*, the cumulative effect of the individual loops will build up a still greater magnetic field of force. At "C" we have such a coil. Magnetic lines of force are shown flowing through and around the coil, and they are similar to the lines that surround a steel bar-magnet. If an iron bar is placed within the coil it instantly becomes a magnet, and the coil with its magnet *core* is called an *electro-magnet*.



MAGNETIC LINES OF FORCE ABOUT A CURRENT FLOWING THROUGH A COIL OF WIRE

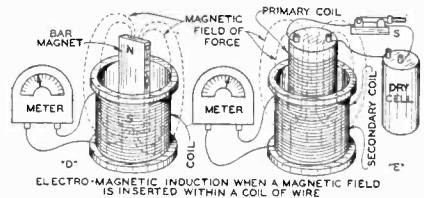
If the direction of the current flowing through the coil is made to alternate, the entire magnetic field reverses its direction each time the current alternates. If an iron bar is inserted within the coil, as before, it too becomes a magnet. But this time it has no fixed North and South poles. The two poles become alternately North and South every time the alternating current changes direction through the coil. The lines of force swing back and forth, and thus we can create a rapidly moving magnetic field of force surrounding the coil. The insertion of an iron core in the coil creates an electromagnet, and naturally the surrounding magnetic field becomes much stronger than that

existing about only a coil of wire.

### The Phenomena of Induction

This leads us to the theory of *magnetic induction*. If a wire, having its two ends attached to a sensitive electric meter, is moved rapidly across one end of a powerful magnet, a surge of electricity will flash through the wire. Or, on the other hand, if the wire is held stationary and the magnet quickly moved, a similar effect is observed. It is motion alone—that of a wire cutting through a magnetic field, or a magnetic field moving across a wire—that creates an electric current. We see that electricity and magnetism go hand in hand—electricity produces magnetism, and magnetism creates electricity. Electric generators and magnetos owe their existence to this simple truth. But they require motion to operate. In radio it is the motion of the alternating-current magnetic field of force swinging back and forth that makes the transformer possible. Upon it hinges all *electro-magnetic-induction* as found in radio receivers where radio, intermediate and audio frequency stages of amplification are used.

If a large quantity of fine insulated wire is wound into a coil, as shown at "D," with the two ends connected to a sensitive meter, it will be found to create a single electrical impulse whenever a permanent steel magnet is plunged into the coil. And when the magnet is quickly withdrawn another surge of electricity takes place, but flowing in the opposite direction. These currents are *induced* by the motion of the magnetic field of force cutting across the many turns of wire in the coil. They are



ELECTRO-MAGNETIC INDUCTION WHEN A MAGNETIC FIELD IS INSERTED WITHIN A COIL OF WIRE



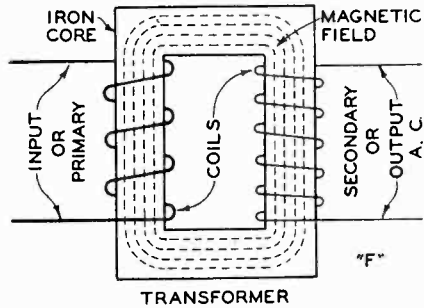
alternating because of the back and forth motion of the magnet. If the magnet is replaced with a smaller coil that is attached to a battery, as shown at "E," similar effects will be observed. Each time this inner, or *primary*, coil is inserted and removed two different surges of electricity are induced in the outer, or *secondary*, coil. The movements of the primary coil create alternations of current in the secondary.

On the other hand, when the primary coil remains stationary within the secondary, the same effect will be noticed each time the battery current is turned on and off by a switch (S) placed in the circuit. There will be a surge of current in one direction when the circuit is closed, and in the opposite direction when the switch is opened. When an iron bar is placed in the primary coil it will make a stronger magnetic field, and the induced current will be noticeably greater.

### The Secondary Current

Connect an alternating current to the primary and there will be no necessity for moving the primary coil in and out of the secondary, or making and breaking the circuit with a switch or vibrator, in order to induce currents in the secondary coil. We know that an alternating current, when flowing through a coil, causes its surrounding magnetic field to reverse direction every time the current alternates. This, then, gives a quickly and constantly changing magnetic field that cuts across the wires of the secondary coil so as to induce currents in the latter. The alternations in the primary induce a similar, rapid, alternating current in the secondary, and the lapses between surges, whenever the magnetic field reverses direction, become so short that the current appears continuously to flow.

A transformer consists of two coils of wire wrapped about a soft iron core, as shown at "F." If the secondary has twice as many turns as the primary then twice as much potential will be generated. But the to-

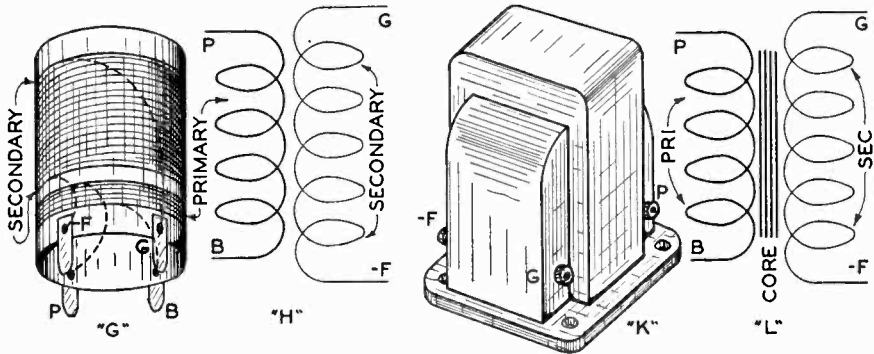


tal number of watts generated by the secondary cannot exceed the watts consumed by the primary. For instance, a 550 watt transformer, wound with 1,000 turns of wire on the primary, connected to 110 volts and consuming 5 amperes of current, will, when using a 5,000 turn secondary, generate 550 volts, but at only one ampere, or still 550 watts. In practice, however, the transformer is not 100 percent efficient. Transformers are remarkably self-regulating; an increased drain upon the secondary current causes an increase in the current flowing through the primary. Too much rise in the secondary, or over-loading, causes the transformer to become dangerously overheated.

### The Transformer

The iron-core transformer is used when the frequencies of alternating currents are low and within the audible range. Many thousands of turns of wire are used in its coils. It is used in a radio receiver to step up the potential of 110-volt a.c. to the voltage needed to operate the plates of the tubes. Its particular adaption to radio, however, is as the *audio-frequency transformer* or *output transformer*. At "K" is shown an audio-frequency transformer, and the usual symbol used in drawing radio circuits is indicated by "L."

When very high a.c. frequencies are to be amplified by transformers, such as those within the radio-frequency range, the iron core is removed and the number of turns of wire in the primary and secondary reduced to a



RADIO AND AUDIO-FREQUENCY TRANSFORMERS

very few. Too many turns tend to choke back the rapid alternations of current. Low frequencies will pass through large coils; high frequencies through only very small coils. And the higher the frequencies the smaller the coils that must be used. The transformer used for high or radio-frequencies is, therefore, a *radio-frequency transformer*. It is shown at "G," and its radio circuit symbol is indicated by "H."

We have now learned that electric currents can be transferred from one circuit to another by induction, and amplified at the same time—by transformer action. Next month we shall see how similar results are obtained

by a more amazing phenomenon—that of *capacity*, or *condenser action*.

**Queries**

1. By means of what instrument is an electric current transferred from one circuit to an entirely separate one?
2. How may the lines of force in a magnet be demonstrated?
3. What is a magnetic field?
4. What effect has the magnetic field of high voltage a. c. lines on an antenna?
5. How is a magnetic field made more powerful?
6. What results to an iron bar when it is placed in a magnetic field?
7. When is an iron core used in a transformer?
8. Which requires the fewer turns of wire—an a. f. or r. f. transformer?
9. What two functions does a transformer perform?
10. What relation has the number of turns of wire in a transformer to the frequency it is desired to carry?

# The MONTH'S CHANGES

**FREQUENCIES**

560	CJRM	Moose Jaw, Sask., from 880
	CJRW	Fleming, Sask., from 880
840	CKLW	Windsor, Ont., from 840
930	CFAC	Calgary, Alta., from 690
	CHRC	Quebec, Que., from 645
1230	CFQC	Saskatoon, Sask., from 890
1450	CKX	Brandon, Man., from 930

**POWER**

880	CRCO	Ottawa, Ont., 500 to 1000
1120	CKOC	Hamilton, Ont., 500 to 1000
1310	WLBC	Muncie, Ind., 50 to 100

**LOCATIONS**

940	WFIW	Louisville, Ky., from Hopkinsville
1420	KGIW	Alamosa, Colo., from Trinidad
1500	WKBV	Richmond, Ind., from Connorsville

**CALLS**

1200	WKBO	Harrisburg, Pa., from WCOD
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**NEW**

1195	VE9EK	Montmgay, Que.
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**CHAINS**

1210	WSOC	Charlotte, N. C., New NBC
1380	KQV	Pittsburgh, Pa., New CBS

**PERMIT TO CHANGE LOCATION**

1020	KYW	Chicago, Ill., to Philadelphia
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**PERMIT TO CHANGE FREQUENCY**

930	WIBG	Glenside, Pa., to 970
1020	WRAX	Philadelphia to 920
1500	WPEN	Philadelphia to 920

**OWNERS**

780	WMC	Memphis, Tenn., to WMC, Inc.
930	WBRC	Birmingham, Ala., to Frank M. King Receiver
1210	KWEA	Shreveport, La., to International Brdstg. Corp.
1370	WPFB	Hattiesburg, Miss., to Otis P. Eure, Receiver

# GYPPING *the* Radio Buyer

● ● ● By JOSEPH SALZMAN in "Radio Retailing"

**D**O YOU know a MOOTCH when you see one? Can you spot a GIMMICK or WRAP-UP?

In the pithy vernacular of "Gyp Row," where salesmen have learned to judge radio prospects with uncanny skill, a "Mootch" is a man who has time to kill, asks a lot of technical questions, but has no intention of buying. "Gimmick" (or "Wrap-Up") is the pretty name given to a genuine prospect who knows nothing about radio, is easily embarrassed, gullible, and offers little sales resistance.

The Mootch is anathema to the chiselling brethren; he gets a quick cold-shoulder. The Gimmick is the "babe in the woods" upon whom cut-price acrobats thrive . . . and how he does get it in the neck! Some of the gyp methods by which the public has been victimized for many years are positively criminal (ethically if not legally). Many are so bald-faced that they would be amusing if they were not so pathetic. In a review of the most common of these subterfuges lies our story.

**ALL OLD TUBES ARE NOT JUNKED.** Tubes turned in at gyp stores by customers are not always thrown away. Those having even a spark of life are wiped clean, the names scraped off the bases, re-boxed in bright, new cartons. Then they are sold as "independents" from seventeen cents up.

## METERS TRAINED TO LIE.

When a gullible customer asks to have his tubes tested he is led to an impressive but "doctored" machine. The clerk, who is habitually pessimistic about old tubes, manipulates the meter so that all tubes show up N.G.

**SELLING HOCUS-POCUS MAKES.** When a customer requests a standard tube which has an established reputation but carries a nar-

row discount for the gyp, meters are frequently manipulated so that an inferior (but more profitable) tube appears to be the best. Often, when a gyp wants to sell a Hocus-Pocus tube, he asks the customer the name of his radio, hesitates, thinks, searches through a reference book and then promptly informs the customer that to obtain ideal results the Hocus-Pocus tube is best for that particular model.

## SELLING-UP, GYP STYLE.

Where a shrewd customer insists upon buying a radio, advertised at cost in the window as a "come-on" the salesman tries to switch by demonstrating it poorly against other models. If this fails to "sell-up," the customer is permitted to pay for it. But while it is being wrapped the variable con-



*Early to rise makes a man healthy, etc., according to Singin' Sam, whose privacy we herewith invade to show him at home at early morning breakfast. Sam is heard over CBS Tuesdays and Thursdays at 8:15 p. m. EST. West Coast rebroadcast at 11:30 p. m. EST Thursdays.*

denser plates are bent, short-circuiting them. This naturally brings the customer back to store with a claim that the radio is defective and gives the salesman another chance to switch.

**GENTLE ART OF SWITCHING.** Prospective purchasers of radio sets who have definitely fixed their mind on a certain radio, are often misled into purchasing some other set, often an inferior one. The method applied is as follows: The radio the customer really wants is deliberately adjusted to give poor reception. The tone is stifled and the quality is extremely disappointing, prompting the customer to listen to the radio salesman's fluent description and careful, impressive demonstration of another radio which involves a better commission.

**THE SPEAKER IS EXTRA.** A shopper is in the market for a standard make radio and offers the dealer a price. The offer is below dealers' cost. When the dealer refuses to sell at the price offered the customer starts out of the store. The dealer stops him at the door and consents to sell the set at the price named.

The customer insists on getting delivery in the original crate. The dealer consents, obtains a deposit and informs the customer to call back. Later the customer pays the balance and receives his machine crated. At home, he discovers that it has no speaker. The dealer counters with: "You didn't expect a speaker at the price you paid, did you? If you want one it will cost you \$22 additional. Why don't you read your sales slip, you received everything you paid for." The customer looks at the sales slip, and to his amazement and chagrin reads: "One console cabinet one radio chassis; one complete set of tubes."

**THEY JUST REMOVE THE DECIMAL.** A stratagem (politely termed) occasionally practiced, particularly when gyps are overstocked with parts, is changing the manufac-

turer's ratings. For example: If the store has too many .5 mfd. fixed condensers and needs 5 mfd. sizes it merely erases the decimal point or pastes a new label on the condenser. Simple, isn't it?

**EVEN SERVICE IS GYPED.** Certain dealers reap a handsome profit on service. They send a serviceman to a customer whose radio is not functioning. When the man arrives he informs the customer, after a brief inspection, that there is something radically wrong with the radio, that to repair it properly it is necessary to bring it to the shop. The customer permits the man to take his set. It is held for three or four days, giving the customer the impression it is being repaired. Often, the only thing wrong is a poor tube.

Service is billed out for as much as \$18. On returning the radio the customer is informed that resistances, formers, volume control were replaced, and minor adjustments



*Curtis Arnall, young NBC actor who plays the title role in the Red Davis sketches, a series of dramatic programs by Elaine Sterne Carington dealing with events in the life of a typical American boy. Red Davis is heard over an NBC (Blue) network each Monday, Wednesday and Friday, at 8:45 p. m. EST.*

made. You've heard of this one.

**REFUNDS, IF YOU FIGHT FOR THEM.** Gyp stores frequently gain the customer's confidence by voluntarily offering to refund within 24 hours. But when customers ask for one every form of persuasive effort is brought into play to avoid it. Refund customers usually walk out with a different radio and usually pay plenty for it.

**"NEVER LET A SUCKER GO."**

Some stores take deposits on merchandise, knowing that the radios cannot be sold at prices quoted. When the customer inquires about failure to deliver, the salesman discourages purchase and endeavors to sell another make. If the customer insists that he wants the radio he ordered the salesman regrets that he is unable to deliver at price quoted. If the customer threatens to force the dealer to deliver on strength of paid deposit the salesman points out an extremely small imprint on the sales slip which reads, "This order is not binding unless approved by an officer of the company."

Of course the customer can demand his money back, but most of them select another set to avoid further embarrassment.

**FREELY GUARANTEED, IT COSTS NOTHING.** Tubes are sold under varied guarantee arrangements. Some are not guaranteed at all. Others are guaranteed for three months to one year. Sets are guaranteed, in many instances, when customers insist. Whether the guarantee is fulfilled is not the immediate concern of dealer; the sale is what counts with him.

Many advertising tricks are used by the gyp, the main idea being to get prospects in the store no matter how. Several typical ads appear on these pages. Another common method is to price all sets displayed extremely low. This prompts customers to walk in. When the prospect is in the store, he learns that sets priced in window are sold only with



*"Myrt and Marge"—which is the mother? Myrt, who writes the script series and heads the cast, spent the summer gathering material for this season's series. Heard Monday to Friday, inclusive, at 7:00 p. m. EST, over CBS, with a repeat broadcast at 10:45 p. m. EST, for the Middle West, South and West.*

a cheap grade of tubes. The salesman emphatically discourages the purchase of any radio with cheap tubes. Poor quality, few stations, and decreased volume is, he contends, the result. He advises that it would pay to spend an additional five to fifteen dollars for better tubes. Many prospective purchasers willingly pay.

Editor's Note: Mr. Salzmänn illustrates his timely and enlightening article with reproductions of advertising cards found in the windows of gyp shops. One favorite device is to play up in large letters "R. C. A. Tubes (or sets)" while in very small type the word "Licensed" appears under the R. C. A. This, of course, means nothing except that the R. C. A. owns the patents under which the gyp manufacturer works.

Another favorite device is to place in a window filled with fine sets, a card reading "1933 Majestic Radios \$9.95," followed by the word "up" in very fine print.

# A WORD *About* AERIALS

From the *New Zealand Radio Times*\*

**E**VEN in these days of ultra efficient sets, a good antenna and earth system add materially to the dx ability of a receiver, yet in scouting round the city one sees but few aerial systems that can claim any semblance of efficiency, while many of them are unsightly. Most listeners pay a good price for their receivers yet will not go to the extra few shillings necessary to obtain a neat and efficient aerial system, mainly perhaps because the modern sets will bring in quite a number of stations with anything hooked on to the antenna binding post. Also, maybe, because in the cities a sensitive set with a good aerial will pick up a large percentage of noise. However, there are means of reducing this, and we shall come to this phase a little later.

## Should be Loss-proof

No matter what type of an antenna is used its function is to intercept the small amount of radio frequency power radiated through the ether by the broadcasting station. The antenna used at these stations may send out through the ether thousands of watts of power, the antenna connected to your receiver must intercept but micro-watts of power. A broadcasting station antenna might transmit for example 25,000 watts, and the antenna on the set intercept but millionths of one watt. The broadcasting antenna is suspended by means of insulators, and when the station is on the air the voltage across these may be as much as 50,000 volts. The volume across the insulators of a receiving antenna is only millionths of a volt. These figures give you some idea of the difference between the antennas for transmitting and receiving and also show the

necessity of collecting every fraction of power possible. Unless the aerial is high and free from obstruction, much of the power that has been carefully collected will be lost.

Generally if the earth wire is not making good contact with the ground, power will be lost here, and although the losses may be little, it must be remembered that very little power is available from weak or distant stations, and this small percentage of leakage may be just sufficient to put the station beyond the audibility level.

## Importance of Height

One hears very many arguments for and against the various types of antennas, but it is generally conceded that the inverted "L" type is the most popular. The inverted "L" comprises a short horizontal top and a long vertical antenna lead-in with the total length of wire not exceeding 100 feet.

Strange though it may seem, most of the energy is picked up by the vertical lead-in. This is why. An electro-magnetic wave traveling parallel to a flat surface sets up a magnetic field and an electric field at right angles to one another and to the wave. The voltage induced will be due to the electric and not to the magnetic field, and consequently voltage will be induced in the lead-in or vertical portion, which is parallel to the field, and not in the horizontal flat top which is perpendicular to the field. At the same time the top does materially reduce the aerial reactance, and this loading effect may be of considerable benefit.

The direction of the waves may be altered by the nearness to a steel building, while currents induced in nearby wires and metal structures

will frequently contribute an appreciable part of the voltage in the antenna system.

Therefore we come to the first general consideration—height is of paramount importance, height implying the distance above surrounding objects.

The aerial should be away from all metallic surfaces. An aerial 40 feet from the ground, running 10 feet above an iron roof loses a great deal in efficiency. It is much less efficient than a 30-foot aerial which runs clear of all structures.

In the country the erection of an ideal aerial is often possible owing to the greater amount of space available, but in the towns it is somewhat difficult and one often has to put up with an unsatisfactory aerial. However, by carefully studying most town lots, the best position for an aerial can be discovered. Bearing in mind



*Herbert J. Biberman and Gale Sondergaard, director and actress respectively of the Theatre Guild, take the same posts in "The Legend of America," heard over the Columbia network each Tuesday at 10:00 p. m. EST. The series presents a dramatic panorama of American history. Biberman is heard in the role of the narrator who lends continuity to the rapid-fire sequence of historical events.*

that height principally should be aimed at, one should endeavour to get the masts well above roof level, shortening the flat top considerably. Thirty or forty feet is not excessive, but above this very little increase in signal strength can be noticed. If you find it is difficult to run the top part of an aerial without crossing a metal building, obtain the highest mast possible and drop a vertical aerial from this straight to your set. It may seem difficult at first, but a little thought and study of your house and section will probably show you how this can be done quite efficiently.

### Efficiency of a Short Aerial

Even where it is possible to get a long top, this should be avoided as, increasing the total length past 100 feet, unless the aerial be of the Beverage type, causes lack of selectivity and may even result in decreased sensitivity, the reason for this being that every aerial has a natural wavelength, below which sensitivity is very poor. If the natural wavelength falls inside the broadcast band all stations below this wavelength will be unsatisfactory. The use of a .0002 or .0001 mfd. condenser in series with a long aerial will often bring increased sensitivity.

### Shadows

One should remember in erecting an aerial that trees are connected directly with the ground, and if the aerial is close to them a large amount of signal strength will be lost. Furthermore, swaying trees can often come into physical contact with an aerial, causing a direct leakage path to earth. Another point to remember is that a tree casts a shadow, and an aerial can be quite effectively shielded thereby.

The same applies to steel buildings, and these often are the cause of poor reception in a city. A steel building will not only absorb a large portion of the electro-magnetic field, but will also cast a shadow, as a tree does, tending to blot out the signal

*(Continued on page 48)*

# A VISIT to Wheatenville

• • • *With "BETTY"*

"THE only answer to what sent me into radio," says Ray Knight (Billy Bachelor) "is pleurisy. If I hadn't been sent to the hospital instead of the theatre the day after I was engaged as a director in the Theatre Guild School, I might even now be a figure in the American drama, if any." By the time Ray had emerged from bed and shaved off his beard, the Guild had another director and Ray had another chance to look for a job. He found it in the continuity department of the National Broadcasting Company.

Before this episode, however, Ray Knight had studied law, been admitted to the Massachusetts bar, practiced law for two years in Boston, decided to study for the ministry, went to Harvard Theological School, did social service work, became interested in the drama, taught school in Cuba, went back to Harvard to study with George Pierce Baker at the old 47 Workshop, followed him to Yale for another year's work, wrote a play and stage-managed a Broadway production, thus gaining a

background for anything that radio might require.

Ray is married—very happily, and has two children who provide plenty of material for "Wheatenville" and in turn are sometimes reprimanded through listening to its episodes.

The twins, Peter and Pan, are played by Bobby Jordan and Emily Vass, popular child air actors, and David Daca fills the rôle of Uncle Hannibal, Bachelor's faithful old Negro servant. Janet Freeman is played by Alice Davenport, while Ray not only plays the rôle of Billy but also that of Wellington Watts.

Bobby Jordan, who is ten years old, made his radio debut in the rôle of Peter last year. Previously, however, he had been seen on both the stage and screen. He was in the original New York production of the Pulitzer Prize Play "Street Scene," and later was featured in a series of movie shorts.

Emily Vass, also ten years old, has been playing before the microphone for a little over a year, and has been heard on many children's programs.

Miss Davenport also is well known to the radio audience, and has had the feminine lead in numerous air series.

Wheatenville is designed as a family program and if it has an aim, it is to prove that it can have plenty of action and excitement and interest and yet be acceptable to the parent-teacher associations all over the country who have come to realize that what children hear over the air is just as important as what they read in books.

Billy Bachelor, his assistant, Janet Freeman, and



Billy, Janet, Peter and Pan



the twins, Peter and Pan, are heard in the Wheatenaville sketches over an NBC (Red) network every Monday to Friday, inclusive, at 7:15 p. m. EST.

### The Super-salesman

In real life Elmer Everett Yess is Hal K. Dawson, veteran stage and radio actor, who now finds himself in his twenty-seventh sponsored dramatic series, but for the first time the star. Appropriately enough, he began life as a salesman.

Yess-man Dawson was born in October, 1896, in Rockville, Conn., and duly christened Harold Kaye Dawson. His father was a textile mill superintendent; a business that moved its locale so frequently that young Hal was brought up in various cities throughout New England.

After finishing high school in Pittsfield, Mass., Hal entered Syracuse University, where he starred on the track team, being a ten-second man in the 100-yard dash, was president of his class in his Junior year, belonged to the Psi Upsilon Fraternity, waved his arms as a cheer leader, sang in the glee club and choir, and gave a hint of his future career when he got himself deeply involved in the affairs of the dramatic club, to which he applied himself so diligently that he was chosen as its president.

When he finally stepped forth with his sheepskin in 1919, he became a salesman. Three years later the stage bug bit him, and he threw away his salesman's portfolio to be a stock company juvenile at \$10.00 a week, with such success that he soon was making \$15. For five years he continued to play stock in New York, Massachusetts, Kansas, and Canada, working almost steadily and averaging 45 weeks a year in productions during those five years—which any actor will tell you is a high batting average. After that he landed on Broadway, and among the productions he has acted were "Torch Song," "Three Times the Hour," "Louder Please," and most recently, "Another Language," in which he



*He sells Plymouths*

played the comedy part for 50 weeks on Broadway in the stage play, and also on the screen.

For the past five years, he has devoted considerable time to radio work between stage appearances. He is now under exclusive contract to "Elmer Everett Yess," which is heard every Tuesday, Thursday and Saturday over the CBS. In order to take the part in this comedy script series, he had to relinquish an important rôle in the Broadway play, "The Curtain Rises," which was in rehearsal when he got the radio call.

Hal is married and has a 16-month-old daughter, Patsy, and lives on Long Island. His wife, Frances Laughton, is also on the stage. They met in 1925, when both played in the same stock company in Utica, N. Y. He was in the Naval Aviation Service in the War. Golf is his favorite pastime, but he'll tell you he's a "dub" . . . weighs 150 pounds. . . is 5-foot-8, has blue eyes, and light brown hair.

### Joe Penner's Duck

Less than ten years ago Joe Penner was a mechanic in an automobile factory. One evening he was persuaded to go on the stage at an amateur night at a local theatre. For the first time that evening he pulled his now



*Ducks for sale*

celebrated line, "Wanna buy a duck?" and while no one did, there were vaudeville scouts in the audience who did buy Penner.

Success in vaudeville followed for the young comedian, then a place in three Broadway revues, and finally a contract to make 24 movie shorts. Back from Hollywood, he was introduced on the air by Rudy Vallee and scored so successfully that he soon was booked for the feature comedian's rôle in the Bakers Broadcast, heard every Sunday at 7:30 p. m. EST, over a coast-to-coast NBC (Blue) network, with Ozzie Nelson's orchestra and Harriet Hilliard.

Miss Hilliard, blonde young singer, was appearing in the New York night clubs when Ozzie Nelson heard her and made her the leading soloist with his orchestra. Later in Hollywood, motion picture producers saw her and persuaded her to appear in several pictures. Meanwhile she has continued her work with Nelson and his orchestra and now is regarded as a leading radio singer.

Ozzie Nelson's musical career began at Rutgers University, where he

organized a college orchestra which was in great demand for fraternity dances. Between rehearsals he found time to win his varsity letter in four sports, and when he was graduated decided to continue his studies in law school.

Before he became a full fledged lawyer, however, he organized another band which was so successful that he finally gave up law for music. That band, with some additions, is the one you now hear, and is the organization with which he has climbed in a few years to a commanding position among radio dance orchestras.

### Two Black Crows

George Moran was born at Elwood, Kansas, in 1881. When fifteen he became an entertainer . . . made his debut with a road show . . . the play was "Uncle Tom's Cabin" . . . soon learned to buck-and-wing . . . became an all-around vaudeville performer.

His meeting with Charlie Mack was the beginning of a sensational rise to fame and fortune . . . the team first brought "Negro" impersonations to the "big time." It wasn't long before they were earning \$2000 per



*Two Black Crows*

week. Incidentally, Moran and Mack played the opening bill at the Palace Theatre in New York.

Moran was married in 1928 . . . his wife is Claire White . . . they met in the "Vanities" . . . and now have a daughter.

Like his partner, Charles E. Mack is a native of Kansas . . . the year was 1887 . . . the town White Cloud . . . he wanted to be a vocal star . . . began singing for pennies at the local ball park when just seven. Charlie got his start in show business as a dancer at Centralia, Wash. He and Moran each were doing a black-face act in 1917 . . . they went broke . . . decided to team up . . . that was the birth of "The Two Black Crows."

They catapulted to national fame in 1927 and 1928 . . . more than four million of their recordings sold . . . everyone was saying "Why bring that up?" . . . they've been in Hollywood for the past five years . . . and will continue to make movie shorts in between broadcasts with Fred Waring's Old Gold program.

Mack writes and directs . . . but two other activities take up a lot of his time . . . attending to his stamp collection and building houses in Norman architecture.

### The Playboys

Leonard Whitcup, Walter Samuels, and Felix Bernard, "thirty flying fingers on two pianos." This trio of composer-pianists is heard over the Columbia network three times a week.

For several years, Felix Bernard had been toying with the idea of a two-piano trio, but had never been fortunate enough to round up two other pianists who would fit in with his ideas on tempo and rhythm. While trying out some music at a publishers, he met Leonard and Walter, had a hunch that these were his partners, and formed the team. Felix Bernard and Walter Samuels alternate between the melody and rhythm technique, while Leonard Whitcup holds down the bass.

Leonard Whitcup made his debut



*Thirty flying fingers*

on the air at three o'clock one morning about seven years ago. He was to follow the program of Whispering Jack Smith, and did—when that popular artist finally had sung all the request numbers that had been phoned in.

Leonard was born in New York on October 12, 1903, and was schooled in the same city. When he left New York University, his family urged him to carry on the business which they had worked forty years to establish. Instead, he landed a job in a music retail shop at the nominal sum of \$12.00 a week. There he first tried his hand at writing popular songs and since has penned many a tune, notably "Nize Baby," "I Gotta Have You," and with Samuels, "Fiesta."

Walter Samuels was born in New York on February 2, 1903. His family has always been connected with theatricals, and so Walter took to the profession quite naturally. But Walter ran the gamut of rôles from small bits to major parts in Hollywood and on Broadway. He now is

*(Continued on page 47)*

# SHORT WAVE Reception in ENGLAND

• • • By G. WINSON\*

**A**LTHOUGH I had listened to some of the London programs on a friend's set, up until a year ago I had no interest in radio at all. Then a chap told me that it was possible to get the U. S. A. on a short wave set so I fell to and started to build one. My first was a three-valve, the second a one-valve and now I have a two-valve. Personally I think that on H.T.B. (high-tension "B"?) there is too much *rush* with a 3-valve; on a one not enough power behind the signals owing to having no amplification. A 2-valve just compromises and you have the "sigs" boosted up by the one stage of amplification which is just sufficient to work a loud speaker satisfactorily. More than a 3-valve is too much on

the pocket for batteries as unfortunately we have no electricity in this part of London.

I am quite satisfied with my set to date, having logged in a year practically all the countries in the world. I use 120 volts h. t. B, two volts l. t. No ground and a very poor antenna, 30-feet long, only six feet above the roof and screened on three sides by very tall houses and on the fourth by the electric railway only fifty feet away with trains sparking and arcing all day and half the night. It is a very poor locality but owing to the freakishness of s. w., I am lucky in reception results.

Up to date I have had about everything worth having on phones and a good bag on loud speaker. I have built the set into an all-wave, 15-2500 meters, with six-pin plug-in coils so that Ma can listen to London if she wishes to when I do not want to use the set.

## Certainly "A Good Bag"

My log now includes AC8, CE, CM, CTI, CV, D, EAR, EI, F4, F8, F1, G, G1, HA, HB, HK, I, J, LA, LU, OH, OK, ON, OZ, PA, PY, SM, SP, SU, UO, VE, VK, VPI, VQ2, VQ4, VSI-2, VS7, VU, W, X, YI, YM, YV, ZC6, ZD, ZL, ZS and ZU. These prefixes are all of countries heard either from hams, private phone or broadcasting stations—only a few countries to be heard to complete the world.

Of the broadcasters I have logged the following by call and most are verified: W3XAL, W8XX, W2XAD, W1XAZ, W4XB, W8XAL, W9XAA, W9XF, W3XL, W2XAF and W2XE. Some of these I have not heard recently and they may be off the air now. Outside of the U. S. A. there are XDA, HKD, YV1BC, YV11BMO, VE9GW, VE9DR, VE9BY, RW59,



Bert Lahr, funny man on the Royal Gelatine program, Wednesdays at 8:00 p. m. EST, on the NBC (Red) network, with George Olsen's orchestra.

OXY, DJC, DJD, DJA, EAQ, CT1AA, PLE, FYA, HVJ, CNR, 2RO, SRI, HBP, VQ7LO, JB, REN, EAR262, and VX2ME. The latter is the only one of the Aussie broadcasters ever heard and that only twice—the hams are received well though. All this may seem like an exaggeration but I assure you it is not. You see I am a fan and sit up till 3 a. m. nights and go on again at 7 a. m. just to catch a particular station.

I listen most to the U. S. and now I have logged so many I am ready to settle down to hear what I originally made the set for. A friend over there sent me a copy of your magazine and now that I have subscribed for two years, I am looking forward to a very interesting time in radio. It will help me immensely to keep track of my favorite programs which are Amos 'n' Andy, A. & P., Chase & Sanborn, Clicquot Club, Carnation Contended, Firestone, Five Star, Lucky, Old Gold, Roxy's Gang, Royal Vagabonds, Ed Wynn, Eno's Crime Club, Foreign Legion, Fu Manchu, Goldbergs, Magic Voice, March of Time, Myrt and Marge, Rin Tin, Buck Rogers, Wheatenville. These are a few that I have heard at different times and enjoyed a lot. Heard the first ball game coming over well this year, on April 11th at about 11 p. m. GMT from KDKA's relay, W8XK. It was very clear and I certainly enjoyed it a whole lot.

Over here if you tell anyone you can get the U. S. in the daytime, they call you a liar and if you mention the Aussie's they just think you're entirely screwy. I guess over there you are well enough advanced in radio to know what is possible on the short waves.

#### It's in this Issue

I would like to see a list of the broadcasting stations of the U. S. which are relayed by the short waves as I do not always know which chain or what station's program I have. Would like, too, to hear from some of your readers who are interested in short waves although I cannot promise to answer them all at once as I



*John N. Dyer, Columbia engineer, directs the operation of Station KJTY aboard the S. S. Jacob Ruppert, flagship of the Byrd Antarctic Expedition. Dyer will be at the controls of the short wave transmitter during the two years in which regular broadcasts from the Antarctic are to be forwarded by short wave to the Columbia network in America.*

have not much time away from the dials to do anything but work and eat. I have often wondered what stations you get over there that are difficult to get here. I have heard you find it difficult to get England. Give us more newsy notes as we never hear much about the stars over here and these little tidbits go down well. (The Gracie Allen missing brother search was a great gag.)

Best 73's, DXers. "Hpe cuagn sn."

\*4, Osten Mews, Emperors Gate, Cromwell Road, South Kensington, London S.W. 7, England.

*In January Mr. Dashiell will describe the correct ways of attaching phonograph pick-ups and microphones to modern sets.*

# TALKING OVER Our Radio TROUBLES

• • • *With the Technical Editor*

**W**HICH type of line noise filter made by I.C.A., Tobe or Aerovox is best to use with my three sets—Scott, Eveready and Freed-Eiseman? I expect to purchase one of those makes.

Of the three types you mention—Tobe, ICA and Aerovox—we are inclined to suggest that the smaller units of this kind are practically useless where rather powerful surges come in over the a.c. lines. Of these three makes, then, we suggest either the ICA “senior” type, the Tobe “line filterette” type, or Aerovox “senior interference filter” type, all of which are larger and more efficient types. See the April, 1933, issue of RADEX.

It must be remembered that much noise is picked up by the Aerial, and a noise filter in the a. c. line will not stop the interference, except in cases where it is known that motors, etc., operate on the same power lines. Success is now being obtained with antenna filter systems and shielded lead-ins. These are described at length in the October, 1933, issue of RADEX.

## Tubes in Philco 96

*I have a Philco model 96 receiver and believe it would be helped by the use of the new tubes in place of the present ones. What can you advise me?*

The model 96 Philco is a tuned radio-frequency set, using three -24 r. f. tubes. These tubes can be replaced with 57s if suitable adapters are used. In this case, however, special shields are used, for the adapter adds to the height of the tubes and their grid caps may not fit beneath the old shields. A careful readjusting of the trimmer condensers attached to the tuning condensers will be necessary to rebal-

ance the set. The first audio amplifier, a -27, may be replaced with a 56.

## Strange Harmonics Annoy

*I hear strange harmonics on fractions of the frequencies at which I am supposed to receive certain broadcasting stations on my Radolek receiver. Can you account for this? My set uses five tubes.*

The first harmonic of a radio wave is the fundamental wave assigned to that particular broadcast. See the January, 1933 (No. 65), issue of RADEX, for an article on harmonics. The second harmonic is composed of a frequency of twice the fundamental or a wave of half the original



*Frank Munn, whose tenor voice is heard over NBC (Red) network on the Album of Familiar Music program co-starring with Virginia Rea, on Sundays at 9:30 p. m. EST, and also on Wednesdays at 8:30 p. m. EST, with Abe Lyman and his orchestra.*

length. Therefore it is impossible to get a station on 100 meters, for the second harmonic of a 50 meter station would be 25 meters and not 100 meters, as mentioned by you. Stations also may be found on harmonics which are multiples of the original frequency, or fractions of the wave length and not frequency, as mentioned by you.

It can be possible, however, that the construction of the receiver, with its internal harmonics caused by the oscillator, etc., will favor the creation of several unnatural frequencies within the receiver, and these will become audible in the loud speaker.

### Tubes in Zenith

*Can some of the new 50 types of tubes be substituted for -27s in the Zenith 39-A receiver? Also, will you suggest other tube changes that might help out?*

This set uses six -27 tubes, in radio-frequency, detector, and first audio; a -26 second audio; and a -10 in the last power stage.

The -26 second audio tube cannot be replaced by any other type. The -10 tube is satisfactory as an amplifier. The first audio tube, type -27, can be replaced with a 56 to some advantage. The first radio-frequency -27 tube may also be replaced with a 56. We doubt whether the rest of the -27s should be replaced unless you are fully able to rebalance the set to meet the characteristics of the 56s.

### RADEX S.W. Converter

*I have constructed the converter you published in the June issue. For some reason it will not oscillate, and I cannot get a response out of it. I have used all parts as specified, but with a filament transformer instead of the wafer adapters. It is being used with a 1933 Stromberg-Carlson receiver of ten tubes. The circuit has been checked time and again, and I hope there is something that you can suggest.*

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RADIO WORLD, 145 W. 45th St., New York City

We would first suggest trying another 56 type of tube which is recommended as the oscillator, as it is generally known that some tubes will not oscillate under ideal circuit and voltage conditions. Also, mechanical ruggedness and electrical security are important where the specified parts and advised arrangement was followed.

The mechanical layout arrangement of the parts must be chosen so that the field of the oscillator coil is relatively free (unshielded). Other points of construction must conform with the regular radio construction procedure. These include, secure soldering, short, uninfluenced leads, correct spacing and shielding of the apparatus (except oscillator coil and tube), and proper mounting of all parts.

### More New Tubes

*Can the new 56, 57, 58 and 46 types of tubes be used to good advantage in my Atwater Kent model 89 radio*

*receiver in place of the older tubes now in use?*

The rectifier tube (-80) should not be replaced with any other type, such as the 83 which uses too much current. The present -47s are adapted to the input transformer primary coil and its impedance value would be wrong for type 46. We do not recommend replacing the -35s or -24s with 58s or 57s, respectively. The automatic volume control and oscillator tubes should not be replaced, as their parts of the circuit are very critical. The second detector, if a -27, can be replaced with a 56, as no special adapter or new socket will be needed. The -27 first audio tube may also be replaced with a 56 type.

### Phones With Philco

*What arrangement for connecting headphones, as shown in the February, 1933, issue of RADEX, will you recommend for my Philco 90 receiver? Also, which are best, 2,000 or 3,000 ohms phones?*

The Philco model 90 receiver was constructed in several types—one with serial numbers 32,001 to 35,000, and above 53,100; and one covering the other numbers. The only difference that concerns your use of phones is that of power output tubes. If the set uses two -47s or two -45s in push-pull amplification then you may attach headphones as shown in Figures 4 or 5 in the issue of RADEX mentioned above. If you have a single -47 in the set, then connect the phones as shown in Figure 3, lower right-hand corner arrangement. This figure will be found on page 3 of No. 66.

Either two or three thousand ohms phones will work very well, but the 3,000 ohms type will be somewhat more sensitive to distant signals.

### Electrolytic Condensers

*I would like information concerning the condensers in my 6-tube receiver. Shortly after I purchased it the electrolytic condenser burned out, that is, one side of it. I replaced it*

*with a larger and heavier condenser of 4 microfarads. Two weeks later the other side burned out, leaving only the renewed side in good shape. Can you tell me what is wrong?*

Any present day electrolytic condenser should be capable of withstanding as much as 500 volts across its terminals. However, if there has been excess evaporation of the electrolyte this may not be true. It seems possible that the condenser was defective on both sides, one giving out soon after the other. Such units are generally self-healing and ordinarily overcome these difficulties. It is not likely that the set is defective and in some manner is delivering 500 volts or more to the condenser.

### Air Cell Conversion

*Can I use 2-volt tubes and Air Cell battery with my Kolster model 6-D receiver?*

You may use the two-volt tubes in this circuit in connection with the Air Cell battery. Use type -30s in place of the -O1As, and a -31 in place of the -17A. There is a little one-ohm resistor leading to the filament wires in the circuit that must be removed or short-circuited with a piece of wire when 2-volt tubes are utilized. The end of the rheostat that is not covered by the resistance changing arm must be taken out of the circuit by also shorting with a length of wire.

### Repeating Coil in Radio

*Can a repeating coil be used in my radio set to advantage? I have one but do not know what it is for or how it is used. Please tell me.*

The repeating coil is used on long telephone and telegraph circuits. It is a form of transformer, and may be used to link radio conversations with land lines for transmission along wires to inland points, such as ship to shore communication.

In multiplex wire telephony two pairs of wires may be made to transmit three different telephone con-



versions at the same time, using audio frequency currents. If transformers or repeating coils are used at each end of the lines a "phantom" circuit is set up and takes care of a third conversation which ordinarily could not pass over the two wires or pairs of circuits without interference. The repeating coil has no definite place in your radio receiver circuit.

#### Low Power With S.W. Converter

*I have built your short wave converter which is used with a five-tube General Electric set, but the volume from an English station was very weak and reception was unstable. How can I get more power?*

A converter does not amplify any signals beyond the very slight natural gain that comes with passing a radio signal through a detector tube. All the converter does is to take a weak signal from the antenna and convert it to a different frequency that falls within the reception limits of a broadcast radio set. The receiver itself does the amplifying and the degree of amplification depends upon the power of the set. You cannot expect any more power from short wave signals than you get on broadcast signals coming from over similar distances. With a 5-tube set we think it is only natural that English signals would be quite weak.

#### Fading Signals

*I have a Crosley "Washington" receiver, but when local stations are tuned in it has a peculiarity of fading and then coming in normal again. This happens off and on, and also when the local switch is thrown to out of town stations. The fading is sometimes accompanied by a rumbling noise. What can be the trouble?*

This trouble can undoubtedly be traced to a defective grid or plate resistor in the audio system. It is easier to test such resistors by substitution, for when tested alone they may not exhibit any faults. The resistors can be given the high volt-



*Bruno Walter, distinguished German conductor, will continue to lead the first ten of the New York Philharmonic-Symphony Orchestra broadcasts, heard over CBS and Canadian networks Sundays at 3:00 p. m. EST.*

age test, however, which may show up the difficulty. Many types of carbon resistors change values intermittently under operating conditions.

Carefully inspect and test the field coil circuit for the rumbling noise as your trouble indicates possible trouble in the speaker field. All of this seems to us to be a job for a competent service shop that is well equipped with testing devices.

#### Sudden Volume Changes

*I have a Philco and Bosch direct current set. They are used on board ship, and at times the volume suddenly drops. How do you account for this?*

As d.c. receivers use 110-volts direct-current, it means that only this amount of potential can be obtained as maximum plate voltage. Any sudden surges or changes of current below this maximum reduces the operating plate voltage sharply and, as a result, the volume of the sound drops

*(Continued on page 47)*

# On the Editor's WAVE LENGTH

SO VERY many of the readers of this magazine are receiving foreign stations on the broadcast band that we are bringing out a separate publication called the "DX Radio Log of the World." It will be issued quarterly (with proper support from the listeners) and will be found on sale at most newsstands. You will be able to identify it a block away by its black and white diagonal stripes on the front cover. It sells for ten cents the copy and forty cents a year. The "DX Log" contains all the stations of the world on frequencies between 520 and 1500 arranged in the usual RADEX method of frequencies, call letters and countries, states and cities. It was impossible to find room for all these stations in this magazine, hence the new publication.

The problem of noises—judging from the letters we receive—is the most puzzling and pressing one our readers have. The only relief from man-made static is through the use of filters. The Tobe Deutschmann Corp. prepared a most complete treatise on this subject—75 big pages, profusely illustrated—diagnosing the various noises and prescribing the proper treatment for each case. The book is so large it must go by parcel post and the postage alone is from eight to fifteen cents a copy. We felt we would be serving our readers to make this book available to them. We are therefore giving a copy of this book free with a year's subscription to this magazine to those who desire it in place of the World Map and Time Converter. Be sure to include ten cents for postage or \$1.85 in all.

Following this "blurb" by the Business Manager, we will now look over

## The Editor's Mail

"You have stations listed as answering DX mail which positively do not answer—not one letter but five," complains Harry McPoyle, 1411 N. Edgewood St., West Philadelphia.

"The worst offender is WTFI in Athens, Ga. Others are W T O C, W L B L, K F D M, K F J B, W B T M, W N Y C, W J A Y, and W I N D. Some of them collect dimes too. I used to send for stamps and they never even bothered to send back the dime. I certainly think a 'z' symbol should be used for these stations." This is typical of many letters we receive and yet, on the other hand, we have such letters on the other side of the subject as that of George W. Haskell published in another column. Our symbols indicate exactly what the stations notify us is their policy. What's the answer? Mr. McPoyle goes on to tell us that his log has increased to 431, with 45 of the states, 7 Canadian provinces, South America, Cuba, Porto Rico and Mexico.

James W. Hughes, 9003 Capital Ave., Cleveland, wants to know how to change his Brandes broadcast re-



*Albert Spalding, America's foremost violinist, is the latest of world famous concert artists to lend his talents to radio. He is heard each Wednesday at 8:30 p. m. EST, over a coast-to-coast Columbia network.*

ceiver over into a short wave set. We receive frequent similar letters. There are so few parts in a broadcast receiver that are suitable for short wave work that we do not advise trying to utilize them. If the broadcast receiver is a good one, it would be better to build the converter described in our May and June issues and use it in connection with the broadcast set.

"It might be of interest to readers of RADEX," writes John J. Donaldson, Greenville, Pa., "to know that the first test broadcast of CRCS, Chicoutimi, Que., was had on the morning of September 17 last, a few minutes before 4:00 a. m. EST and lasted but a few minutes. I tuned them in at that time by accident, reported reception and received letters of verification from both engineers of the station, saying that at the time of my reception the process of connecting up the aerial and tuning and coupling had been completed but an hour or so. They also stated that my report was the only one they had received on this, their first test on the air. Their power is 100 watts and they are located about 100 miles northeast of the City of Quebec, on the Saugenay River. They are not yet fully organized, but say that their regular broadcasting periods will be from 6:30 to 11:00 p. m. EST."

### The Aerial and Ground

With only 59 more stations to receive and verify, Ray E. Everly, PHG, 102 West Washington Street, Newton, Ill., has the U. S. pretty well covered. He uses a Scott All-Wave but credits much of his success to his ground and aerial system. He has a short aerial of 80 feet and one of 120 feet connected to his receiver by a double switch. He uses a triple ground system which has improved his reception fifty per cent—a driven pipe ground as described by Mr. Cutler in the October RADEX, a modified Ollie Ross ground buried in salt and moist earth, and a chemical ground made of old B batteries. These three grounds are connected together and kept well watered. Mr. Everly emphasizes the

value of a good aerial as high as it can be placed, and a good ground system kept wet.

"I have been thinking over the idea of your putting the list of stations by frequencies in the center of the magazine," suggests William Vornkahl, Jr., Westport, Conn. "In that way we could take these pages out and bind them all in one book. Then we would not have to have all the books with us all the time. The time on the air for each day would be at hand without having all the seven magazines to cart around. The rest of the magazine could be filed away for future reference."

"Pay no attention to readers advising you to cut out different departments," urges Albert Sandham, 99 Page St., St. Catharines, Ont. "Some people are so selfish that they can only see things from their own angle. My radio is purely b.c., but I get almost as much kick from reading S.W. reports as I do from the others."

### A Complaint

"RADEX is better than ever, in some respects, but in a few particulars, it is, I think, not so good," complains Rev. L. W. Rose, 812 First Ave., Laurel, Miss. "Personally I am fed up on 'Stories of the Stars.' We already have them ad nauseam in various publications. And I am not interested, as so many of your readers evidently are, in messages from abroad. 'What's On the Air Tonight' in the U. S. A. is the big question with yours truly."

Fred H. Bisset, President of the Canadian DX Relay, P. O. Box 339, Goderich, Ont., adds a new station to our lists: VE9EK using 10 watts on 1195 kcs. This station, which sends a fine verification card will have a special DX for the CDXR on November 25th and December 10th from 4:00 to 5:00 a. m. EST. On a previous DX on October first, this station received reports from Michigan to Massachusetts. Mr. Bisset thinks some of our readers may have had VE9EK and thought they had HIJK.

George W. Burns, 2466 Wahl Terrace, Cincinnati, sends us a clipping containing the information that Mexican stations are moving up into the kilowatts—XEN with 150; XEM with 500; XEF with 500; XET with 500; XER with 500; XETM with 150; XENT with 150. We rather doubt the authenticity of the report however as some of the stations named have never been constructed to our knowledge.

A new Pacific Coast network will make its appearance in Southern California on the first of November. KFVB at Hollywood is the key station. The others are KMPC, Beverly Hills, KFOX, Long Beach, KFXM, San Bernardino, and possibly KREG at Santa Ana. The chain will bring popular Hollywood and Los Angeles programs to listeners in the out of town areas.

### Radio in Canada

Maybe we had better not give the name and address of the writer of the following letter or his tax may be boosted to five dollars! "As you know, we have a Radio Commission here in Canada and it apparently is going over in a big way with everyone but the public! I have not yet talked to a single person who is in favor of it. You see they boosted our radio license from one dollar to two dollars a year to produce revenue for the Commission to fritter away. Now the logical way to protest is to refuse to purchase a license but if you do you are liable to a fine so what chance has one? My friends and I believe that a Federal control of radio such as obtains in the U. S. A. is a good thing but not to have the government enter the broadcasting end of the business and unnecessarily spend public money when private firms are content to do so in return for a few minutes of our time to tell us of their product. We never listen to a Commission program anymore but turn instead to U. S. A. stations for our radio entertainment. Buffalo's stations WGR, WKBW and WBEN have larger audiences in these parts than any of the Toronto stations with the exception of CFRB

which does not carry Commission programs." We can only counsel our friend to be patient and give the new Canadian Commission a chance to work out its policies. Our own Commission in the U. S. muddled around for a long time. Oddly enough we have heard people remark after listening to Symphonic Strings, a Canadian Commission program, "That's better music that we get in this country."

"We have just gotten a radio and immediately started to use RADEX but we would like to get more Czecho-Slovak programs and do not know when or on what stations to find them. Will you be so kind as to give me that information?" Can any of our readers tell us what programs there are particularly for Czecho-Slovakian listeners or advise the inquirer, Miss Agnes Hudicek, Maumee, Ohio.

"I want you to tell the readers of RADEX," informs J. T. Maher, Jr., 406 Maple St., Holyoke, Mass., "that the Tobe Filter Model 33 is great. I have been bothered by street car interference and this filter proved its worth, and I honestly mean it."

"Tune-In" is the inviting name of a new DX magazine published in Dunedin, New Zealand (P. O. Box 706). It is filled with chat and gossip of the New Zealand brethren and makes interesting reading. It is published monthly and sells for 6d.

## LISTEN to THIS

The DX program to be broadcast by Station WOWO, Fort Wayne, Ind., on Tuesday morning, December 5, from 1:00 a. m. EST until probably 3:00 will have as its personnel the entire staff of announcers of WOWO, and a large group of radio artists of both WOWO and WGL. It will be a program well worth hearing.

A number of other noteworthy programs will be found in our DX Calendar. Several radio stations last month were kind enough to dedicate their programs to the readers of RADEX as a voluntary courtesy. To them we give our sincere thanks.

# POINTS for DXers to REMEMBER

Some time ago the Newark News Radio Club published some hints for the use of its members when seeking verifications for their reports of reception. These were so pertinent that we are reproducing them below.

We believe that excellent results will be obtained if NNRC members and other DXers will follow these suggestions when writing for verifications. One—Be sure to write legibly, especially your name and complete address. Two—Mention the exact time and date you heard the station to which you are writing and specify E. S. T., C. S. T., etc.

Three—List titles of musical selections in the order heard together with your other verifiable material. It is important to give the names of participating artists, orchestras, musicians, speakers, together with their subjects, etc. Time announcements are also frequently given on DX or test programs.

While some broadcasters are careless in the matter of verifying reports of reception, there is a steady tightening up and many stations now carefully check letters to be certain they are authentic and deserving of confirmation before the issuance of one. This is most encouraging and extremely beneficial for the game. It is no wonder that many reports are thrown in to waste paper basket; we have seen some that came into WHOM and WAAT in which there was absolutely nothing to indicate that the writers had ever heard those stations. After all, what satisfaction is there in a verification dishonestly procured?


Four—Many stations wish to know just how their transmitters are operating as well as to learn you enjoyed their programs. We can partly repay their kindness in verifying our reports by comment on signal strength, modulation and fading. Five—It should be remembered that a verification is

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distinctly a courtesy to the listener. Many of our smaller broadcasters because of insufficient revenue, are unable to maintain an adequate office staff and consequently the answering of the many hundreds of letters received during the DX season is a heavy burden often borne by the managers, engineers or announcers. Surely, in addition to that extra work we cannot expect them to defray postage and other incidental expenses incurred. By all means, enclose return postage or a self-addressed stamped envelope.

Six—A friendly letter rather than a demand will create a willingness to comply with our requests much more quickly. It should be remembered that there is no law or regulation compelling a station to verify reports of reception and finally, before submitting reports be certain you have actually heard the station and furnish sufficient proof to convince them you are entitled to a verification.

# COMING TREATS *on the*

## SHORT WAVES

• • • *By* PAGE TAYLOR

**T**HE first permanent marine unit of a radio network has been granted an operating license with the call letters KJTY. It is located on board the S. S. Jacob Ruppert, flagship of the Byrd Antarctic Expedition. The Federal Radio Commission license grants the station 15 frequencies for the transmission of voice and 51 frequencies for telegraphic communication.

Station KJTY, 1000 watts power, will be used for special broadcasts while the Jacob Ruppert is en route to the Antarctic ice barrier. At the barrier the broadcasting equipment will be transferred to the S. S. Bear, which will penetrate the frozen wastes to Byrd's Forward Base in Little America. There a new station will be set up on the ice to handle the regular weekly programs over the Columbia Broadcasting System in which Admiral Byrd and the members of his expedition will report on the progress of their explorations.

The ultimate geographical location of KJTY at the Forward Base will be, Latitude 85 S., Longitude 168 W.

### Rocky Point Frequencies

Several of the Rocky Point Experimental stations have been authorized to test with KJTY, but as we cannot determine which ones will be used, a complete list of these stations is given this month in RADEX, the first time, as far as we know, that such a list has ever been published. The 15 voice frequencies used by KJTY are also given. Readers should note that any of the Rocky Point stations may use the experimental call letters W2XBJ at times.

KJTY has already been heard by several readers, John Strong report-

ing it off of Cape Cod, and E. A. Conklin, 21 Maple St., Norwich, N. Y., hearing it on 6.660 meg. talking to W2XBJ. Geo. K. Glass, Official Auditor in Detroit, Mich., 1320 Cadillac Blvd., writes: "At 11:30 a. m., EST, I had WCG on 28.9 meters and at 11:33 got KJTY on 13.200 meg. or about 22.73 meters. KJTY was R7, QSA5. They were arranging for a schedule but the frequency to be used was designated by a number. The operator on KJTY mentioned they were on 13.200 kcs at the time and was requested by the CBS man to use numbers. I lost KJTY when they changed frequency. I guess if they are going to be secretive about their transmissions we will be lucky to hear them. KJTY was nearing the Canal Zone."

### Some Specials

During this month listeners will have the opportunity of trying for two more special programs, both of which are especially dedicated to RADEX readers. The first of these will be on December 10 from YV3BC, Caracas, Venezuela, 9510 kcs, from 9:30 to 10:30 p.m. EST, or 0230 to 0330 GMT. 9510 kcs is equivalent to 31.52 meters. Reports can be sent to Radiodifusora Venezuela, Bajos Pasaje Ramella, Caracas, and return postage, that is, an International Reply Coupon, should be enclosed if a verification is desired.

YV3BC will also dedicate programs to readers of this magazine on January 10 and February 10, 1934, at the same hour.

The second DX program will be broadcast by station HCJB, "La Voz de los Andes," on 73 meters (4.107 meg.) from 11 p.m. to midnight, EST, on December 16. This is, in

GMT, 0400 to 0500 on December 17. The address of HCJB is Mr. Clarence W. Jones, Casilla 691, Quito, Ecuador. Mr. Jones says that the power of his station will soon be 400 watts and that he is on the air daily except Monday from 8:14 to 10:14 p.m., EST.

### A Mystery Station

Only the realization of the fact that our readers want the best and latest in news causes us to enter the discussion that has prevailed for some time over the existence of a station known as "Moska Imeni Popova." Whether or not the station exists has long been a subject of argument among listeners the world over. "Microm" and "Midlander," s. w. correspondents for World-Radio, believe that this 25 meter station is the second harmonic of the 50 meter Moscow Trades Union station RV59. Other European listeners give it the call RW72. Our good correspondent in New Zealand, Mr. F. W. Sellens, says he heard the call RV50 on 25 meters. Regular monthly information on Soviet stations and programs fails to mention any stations on short waves other than RV59.

We believe, however, despite this great divergence of opinion, that a postal card received from Official Auditor Roy E. Robinson, 133 Mitchell St., Providence, R. I., will settle the matter, at least for the present time. "I was turning the dials this afternoon around 1:45," he writes, "and I heard a station on 25 meters, something new to me, playing violin music. The music stopped and a voice, 'This is Moscow calling . . .' He talked entirely in English, asking for reports of reception, giving the address as Radio Station RNE, Gorki St. No. 17, Moscow, USSR. It signed off before 2 p.m. Reception was QSA5, R7/S/N. They are experimenting with the United States."

### A Columbian Schedule

Mr. Robinson would like correspondence from other fans.

A card from HJ4ABE gives their

schedule as follows: Monday, 7 to 11 p.m.; Tuesday, Thursday and Saturday, 6:30 to 8 p.m.; Wednesday and Friday, 7:30 to 11 p.m., EST. The address is Cia. Radiodifusora de Medellin, Emisora HJ4ABE, Medellin, Colombia.

HJ1ABB has changed its wavelength to 46.5 meters or 6.447 megs. and announce their schedule as 11:30 a.m. to 1 p.m. and 5 to 10 p.m., EST. Elias J. Pellet, its owner, wishes reports on this new frequency, which will be acknowledged. Address: Apartado 715, Barranquilla, Colombia. HJ1ABB is heard much better now than it was on its old frequency. Readers reporting it are John Strong, who says they now use 3 kw. and gives the Sunday schedule as 7:45 to 8:45 p.m. only. Edward C. Houlgate and R. W. Evans also contributed information.

### TGW Verifies!

Jack Thompson, 535 Hess St., Bethlehem, Pa., apparently has accomplished the impossible. He has



*George E. Jessel, man-of-the-music-halls, whose songs and droll anecdotes have made the rafters ring in theatres throughout the country, broadcasts each Saturday night at 10:30 p. m. EST, over the CBS.*

a verification from TGW. Considering, however, the hundreds, or perhaps even thousands, who have written this station without having the courtesy of a reply, we continue to advise readers that money spent for postage and Reply Coupons to TGW, TGX, HJ3ABF and RV15, is simply money wasted.

Some very good advice for fans is offered in a letter from Clarence Sargent, 19 Clinton St., Dansville, N. Y., an Official Auditor. "W3XL, Boundbrook, is on the air often lately, sometimes testing with W9XZ, the stratosphere balloon. W3XL is always a good station to listen to when they are on as it is the NBC cue station and is always used for stunt and special broadcasts," W3XL has a regular schedule on Fridays, but listeners who remain tuned to this station when hearing it at other times are always rewarded by picking up some new station which may be testing with Boundbrook and Riverhead.

An incident that is recalled by many short wave listeners is the broadcast from ICGZ, the M. S. Saturnia, 1100 miles out to sea, in the spring of 1932. It was on the air for five minutes so Giuseppe de Luca, a passenger on the ship, could sing an operatic aria for a benefit performance in New York City. W3XL was the cue station. A more recent occurrence was the program transmitted over the NBC network from the Graf Zeppelin during its recent visit to this country. Those who listened to W3XL during this visit learned that DENNE, the Graf Zeppelin, worked on 54, 37.5 and 30.83 meters. At the time of going to press, only one reader has reported reception of DENNE, this being Geo. K. Glass of Detroit. Mr. Glass heard DENNE on 30.4 meters instead of 30.83 as announced by Boundbrook.

#### DX Reports

"My set is an 8-tube Allwave Philco super, Model 43, and I am more than satisfied with it," writes Arthur Koepfel, 321 Summit Ave.,

Hackensack, N. J. "I think I have done fairly well. My best catches are VK2ME, 3ME, PHI, CT1AA, and HIX. In my verification from HIX they state that their regular broadcasts are on Tuesday and Friday nights at 8 to 10 p.m., EST, and Sunday mornings at 7:40 a.m. They work on 50.4 meters with 200 watts. The address is Estacion HIX, Mr. J. R. Saladin, Santo Domingo, Dominican Republic."

Charles A. Perdicaro gives the Sunday schedule of HIX as 4 to 5 p.m., EST. John Strong says it is 8 to 10 a.m. Other readers reporting this station are Geo. W. Burns, R. W. Evans, Ed. C. Houlgate and Clement Van Velsor.

John Strong, Official Auditor, 1436 Meridian Place, Washington, D. C., reports reception of station HIZ whose address is given as Calle Duarte No. 68, Santo Domingo City. They work daily on 47.5 meters from 4:40 to 5:40 p.m., EST.

#### Blames the Moon

"While listening to PHI, Holland, on 16.88 meters this morning I heard the announcer say that they would be heard hereafter on 25.57 meters from 9 to 11 a.m., EST, except on Tuesdays and Wednesdays," contributes Arthur C. Gluck, 295 Clinton Ave., Brooklyn, N. Y., an official Auditor. "CT3AQ, Funchal, Madeira, 26.83 meters, is heard here generally Sundays around 11:15 a.m. They are QSA3, R6/S/N. I am of the opinion that short wave reception is at its peak when the moon is full and at its worst when the moon is in the last quarter, or the new moon. I would be pleased to hear from others on this idea."

#### New One in Ecuador

Many of our readers are hearing the new Ecuadorian station HC2RL. This station was first reported by J. G. Richard Heckscher on May 25 of this year. HC2RL works on 45.02 meters on Tuesday nights from 9:15 to 11:15 p.m., EST, and are on the air at other times irregularly. The



mailing address is Dr. Roberto Levi, P. O. Box 759, Guayaquil, Ecuador. Robert L. Weber, West McHenry, Ill., has enjoyed consistent reception from them since September. Doyle E. Carpenter, Emmetsburg, Iowa, one of the Official Auditors from his state, says they are on the air on Sundays from 5:45 to 7:45 p.m. in addition to the Tuesday broadcast. Other readers reporting HC2RL are Mel Johnson and John Strong.

Robert L. Weber reports that he heard PHI announce their location as Eindhoven and asks if they have moved from Huizen. No doubt what Mr. Weber heard was a rebroadcast from Eindhoven; what might serve as an answer to his query is furnished by Geo. K. Glass, who comments as follows: "I had PHI this morning from 1550 to 1627 GMT. Very good, R8, QSA5. Copied a whole page of notes for verification. They announced in several languages. They signed, "I am greeting you from the Netherlands. Good evening, good night, that's all. PHI. N. V. Philips Radio, Huizen."

#### Soviet Politics

"At 2155 GMT I tried 50 meters," continues this interesting letter from Mr. Glass. "A speaker in English was concluding a talk. Then the address was spelled out very carefully, No. 12 Solianka, Moscow, USSR. The National Anthem (Internationale) followed and they signed off at 2200 GMT. While the set was unchanged and as I was writing down the address DJC came on, starting their program. I didn't get the call RV59 due to interference. The announcer asked that everyone send in a frank opinion of the program so I guess it was political. Anyhow I wrote them a letter and trust to obtain a verification and some up-to-date information."

Mr. Glass will receive his verification, as Mme. Inna Marr of RV59 is very courteous about answering reports. And he will also receive the up-to-date information, in the form

of monthly bulletins giving the daily schedules of their programs for the whole month. Their programs are strictly political.

#### Time of HKE

"HKE has been heard well on several occasions," reports Edward C. Houlgate, Official Auditor, 351 Adelaide St., London, Ont. "A recent letter from them states that they are on the air Mondays and Thursdays from 6:15 to 7 p. m. and Tuesdays and Fridays from 8 to 9 p. m. EST. They give their wave as 42.3 meters but on my dials they are closer to 41.6 meters. YV1BC has been heard close to 50 meters lately with excellent volume. Pontoise on 25.2 has been heard returning to the air with the 25.6 meter transmitter at 3 p. m. recently." Mr. Houlgate has also heard KJTY, reporting them in the early evening on 45 meters in communication with WCG and WKP, Rocky Point.

Several readers have complained that XETE is no longer audible, but perhaps this is due to the fact they have been changing their wavelength frequently. Geo. W. Burns, Auditor, 2466 Wahl Terrace, Cincinnati, Ohio, states that XETE gradually slid down from 31.25 meters and now appears to be stationary on 29.2 meters. His letter continues with the information that TIR, Costa Rica, now uses the call sign TIN when working New York and TIU when working Hialeah. "DJB, now being heard here for the first time (I suppose I've passed them up before taking them for VE9DR), is on until 9:30 and sometimes 9:45 p. m.," he writes.

#### From the Rockies

"In this section of Alberta, Canada, within a hundred miles or so of the Rockies, short wave reception is somewhat difficult," advises A. B. Baadsgaard, Drawer O, Ponoka, Alta. "I may add, however, that I have had very good success in bringing in Paris and London in the 25 meter band between 9 a. m. and 2 p. m., with reception equal to and in some in-

stances superior to our local stations. I have had no success in getting Berlin on 19 meters and when on 25 meters the signals are somewhat faint. I would welcome, therefore, reports from anyone in Central Alberta who is able to bring in station DJB." Mr. Baadsgaard uses a Marconi 13-tube Allwave receiver.

"South America hasn't started to come in here as well as it should yet," contributes Doyle Carpenter, Auditor in Emmetsburg, Iowa. "There are six or eight which can be heard but their quality is such that it is painful to listen to them. LSX has been coming in quite well. I got GSG finally, but just once. I also heard DJC once. I imagine we will hear him well this winter as they were very FB last winter."

C. J. Martin, Jr., Springfield, N. Y., sends us the name and address of a very successful all wave DX'er in France who wishes correspondence, especially from persons who have heard French stations. This is M. Francys Carville, 10 Avenue de la Liberté, Becon-Courbevoie (Seine), France. M. Carville has heard 1769 stations on all waves in every part of the world, the list including, of course, both voice and CW transmissions.

#### The Moroccan

RADEX has never recommended station CN8MC as a possible "good catch" for its readers, but for the benefit of those who may have read elsewhere that this station in Casablanca, Morocco is on the air on 48 meters, let us present an excerpt from a letter from Dr. G. Veyre, owner of ex-CN8MC. "Ever since Radio-Maroc, situated in Rabat, has transmitted on short waves, I have discontinued my own broadcasting. It has been over two years since I have been on the air. . . ."

"I have a Pilot Super-Wasp modified for 2 volt battery tubes and amplify the last stage through a Western Electric 25-B amplifier using 205-D tubes," writes C. A. James, 745 Berckman St., Plainfield, N. J.

"In my location I find that EAQ, GSB, DJC and DJD come through consistently well on the loud speaker. I2RO and Pontoise are fairly good. For the past few evenings EAQ has been broadcasting from 7 to 7:30 p. m., a program for the International Broadcasting Co., of London, W1, England. They wish all listeners to send their name and address on a postal card and join the I. B. C. Listeners' Club, membership in which is free."

#### Enthusiastic Over S. W.

James Woonton, Oxford and Wharnclyffe Road, London, Ont., has always been a radio fan, but says that early this year he was looking for something new and found it on the short waves after purchasing his 12 tube Sparton 16 AW Model. This enthusiastic tuner writes, "This is the first short wave set I ever operated and you can count me in as a dyed-in-the-wool fan from no on. It certainly is great to hear old Big Ben striking midnight in London while sitting in your own home. I have logged four of the Daventry waves, DJB and D, 2RO, Pontoise, EAQ, YV1BC, LSY, etc. I would like to hear from some of the boys who tune a Sparton to see what their results are."

"As the summer sent me into s.w. I entered the Denton contest and am very glad to say that I have 73 stations on my log and have 35 veries already and more coming regularly," advises Ramon M. Marti, Box 3783, Santurce, Puerto Rico. He continues with the information that HIX and HIZ are received with good R9 signals; that YV2AM is heard every Sunday from 7:30 to 10 a. m., EST on 42 meters, R9, and that HJ1ABB on its new wavelength is easily one of the best stations ever heard.

R. Matsunaga, Box 86, San Luis Obispo, Calif., is the proud owner of a 1933 Victor R90 long and short wave set on which he has logged 10 Japanese and one Chinese station on long waves, and J1AA, RV15, XETE,

VK2ME and VK3ME on short waves, in addition to numerous United States amateurs, police and airports.

### The GS Schedule

An eight-page letter from Official Auditor Charles Perdicaro, 7225 New Utrecht Ave., Brooklyn, N. Y., is full of assorted short wave data. Following are some of the items contributed:

"Reception of Daventry, Zeesen and Pontoise could not be better. I heard the entire broadcast of a Beethoven concert from Germany, and also vaudeville from Canterbury, England, as if I were in the studios in person. The 25 meter band has gone haywire, amateur code and voice interference raising havoc constantly. Has anyone else complained of this? (Ed., Yes) Daventry stations broadcast time signals superimposed on their programs every quarter hour. The new Empire station schedule is

No. 1, 2 to 4 a. m., GSD and GSF

No. 2, 7 to 8:45 a. m., GSE and GSG

No. 3, 9 to 11 a. m., GSF and GSD or GSE; 11 a. m. to 1 p. m., GSB and GSA or GSF

No. 4, 1:15 to 5:45 p. m., GSB and GSD

No. 5, 6 to 8 p. m., GSD and GSA or GSB.

There will no longer be Zone broadcasts; they will be numbered as above."

"On my Midwest 16-tube allwave set I have been hearing GSD every day," remarks Harvey Kees, Beulah, N. Dak. "Today Pontoise was an R9 signal. Other dependable stations here are GSE, I2RO, EAQ and HIZ. Will you put me down as being interested in writing to all Midwest 16 owners? I promise to answer all letters."

C. E. Gates, 514 Ivy St., Official Auditor in Pittsburg, Pa., reports perfect reception of the Central American phones, RXC (now HPF), YVQ and HJB. Mr. Gates heard KWU with tremendous volume and

*(Continued on page 46)*

## "HELLO WORLD" Becomes "GOODBYE"

"Old Man" Henderson, the Peck's Bad Boy of Radio, is passing from the scene. Most of our readers will remember his harangues over KWKH at Shreveport. His pet peeve was the chain store and he would damn it by the hour and urge people to boycott it and buy from their home merchants. In the next breath he would beg people to send him one dollar for a can of "Hello World" coffee. He "organized" the Merchants' Minute Men (at a dollar a month dues) and furnished them with a card to hang in their windows. He is said to have received nearly \$400,000 from this source. When the Radio Commission asked for an accounting of this fund, "Old Man" Henderson told them in his polite way that "it was none of their business."

Henderson is now retiring from the air because of financial troubles. The Radio Commission has assigned the license of the "Hello World" station to the International Broadcasting Co., headed by Samuel B. Hunter, an oil magnate. Henderson used the slogan "Shreveport on the air, Shreveport everywhere." His station was licensed at the time for only 500 watts but listeners all over the United States and in Canada could tune his station in. He afterward admitted that he used many times the power allotted him.

A typical demagog, he would rant and rave over his station for hours at a time, tilting at whatever windmill attracted his attention at the moment. "Doggonit" was one of his favorite expletives as well as one of his mildest. His others were ruled off the air by the Commission but for a long time Henderson paid no attention to the ruling of the Federal Board. In the passing of "Old Man" Henderson, radio loses one of the curious characters that developed when the new art suddenly gave small-minded men the power to be heard over the nation.

# CHAT *and* COMMENT

## *on the B. C. BAND*

### • • • The Readers' Round Table

**T**HE DX season is under way again and all my enthusiasm and more has returned," comments Donald T. Rogers, 5212 Navarro St., Los Angeles, Calif. "I say more because I am getting better results now than I got last winter. I've had the whole set checked over; put on a new dial, so will have to get all my stations over again; installed a new volume control, which seems to give much more volume, and had all tubes checked and replaced five out of the nine. I put a 56 tube in the 27 socket on the second detector, and the new type of 24 tube and 27 tube in two other sockets. My set has three 35s, two 47s, one 80, one 24, and two 27 sockets. In the first week of DXing since overhauling the set, I received 82 stations, among which are WLW, WGN, WCCO, WHAS, WABC, WOC, WBT, KMOX, KVOO, WAPI, KSTP, KOMA, 2YA, JOIK, JOCK, WSB, WCAU, and WHAM. These were received in the last week of September and the air was very warm and full of static (it was around 100 during the daytime), and the latter three stations were loud enough to drive you out of the room if turned on full. My aerial is a 30-foot five-wire aerial and I am thinking of running another one of one wire 100 feet long NW to SE in order to pick up Australia better. The first one runs straight north and south."

#### DXing Under Difficulties

Many of our readers will recall our DX brother, D. T. Cantwell, who has been lying on his back for twenty months in St. Joseph's Hospital, North Bay, Ontario. In spite of his handicap he is an ardent Radexer and writes us a cheerful letter. Drop him a card, you fellows whose greatest misfortunes are static and stations that

don't verify! Brother Cantwell has a new Victor 5-tube 1933 Mantel set which he thinks is double A-1. "I have identified 110 distant stations. I could easily add 50 more and will soon. I have 84 of the 97 channels logged and 29 out of the 48 States and XEAW, XEB, XEPN and XER in Mexico. It is rumored that the Canadian Radio Commission will soon take over CFCH here in North Bay, modernize and re-staff it. The present staff will go to Timmins, Ont., (245 miles north of here) where a new station is to be built. The tone of my Victor is excellent. Volume perfect and selectivity knife-edged. I can separate CFRB on 690 and WLW on 700 perfectly; also WGY on 790 and WFAA on 800; WCCO on 810 and WHAS on 820; WABC, 860, and WENR, 870. I have had installed a two-way switch for changing over from earphones to speaker. When the phones are used no one can hear a thing ten feet away—a most desirable feature in a hospital."

#### Uses a Big Loop

"When I wrote you last September," advises H. Arbic, Acton, Ont., "I had 212 stations logged. Now I have 340 and they are still coming in. That makes 118 stations in one month. I expect to have at least 15 more before 6:00 a. m. My machine is a Rogers 850, 8-tube (1933), one of the most sensitive sets I've heard. I received WKAQ this morning. It came in fine. On these test programs I can pick up any 100-watter from here to the Pacific coast, if the weather is right. I would like to hear from anyone operating a Rogers 850. I have only missed one station in the last twelve and that was KFYO. As I told you before, I use a loop with 230 feet of aerial. The loop is 7 feet in diameter. It is only

15 feet from the machine, but the pole is 35 feet high. Around the outside of the small wire is 30 feet of 2.0 solid copper wire. This works all right on small distant stations. I also have a ground aerial, to which I hook it some times. I had to use it to bring in KXO. I'll be glad when this testing is over then I can have a good sleep. I have to go to work at 7:00 a. m., so I get up about 3:00 and log stations."

### From the West Coast

"We notice that very few of the big logs reported to you come from the Pacific Coast," comment Herbert R. Lehman and John Biller, 3504 Geary Street, San Francisco, Calif. "We spend some time with my Pilot Super (6-tube broadcast and 10-tube short-wave) and find that we have just about reached our limit with 255 stations on the broadcast band. This is due to the fact that California, Oregon and Washington stations form an almost impenetrable barrier until the great majority of Eastern and mid-Western stations have signed off. Then, too, we are rather at a disadvantage living directly on a main thoroughfare with street-cars passing constantly day and night with other disturbances from electrical appliances of every kind and description. Have had the good fortune, however, to pick up several stations rather unique to the West Coast, such as WEXL, Royal Oak, Mich., 50 watts on 1310 kcs., WMPC, Lapeer, Mich., and WFEF, Kosciusko, Miss. We find that the little 100-watt stations on the lower frequencies cover distance better than their higher powered brothers on the higher channels. In regard to the Japanese stations, we hear practically all of them regularly, so much so that they have become pests."

### Novel Aerial System

"I have two radios, although I only use one for DXing," states Nicholas J. Hock, 20 Burnet St., Newark, N. J. "They are a Fada 42 and an A.K. 42. I use the Fada for DX work and believe me it sure can drag 'em in. I also use two aerials—one is a dis-

carded telephone line about 200 feet long, and the other a silicon bronze wire aerial 100 feet long, with a 75-foot lead. It is 20 feet above the roof. I also have a ground that is 50 feet from the radio. When this is attached to the aerial post (by means of a knife switch) the volume is increased 25% on certain waves when using the silicon bronze aerial, and other waves when using the phone aerial. Then when I use both aerials without this ground, the volume is 50% more than when using only one. This, though, only occurs between 940 and 760 keys. I would like to hear from anyone owning this model Fada, which is a KA chassis and the sets are 41, 42, 44, 46, 47, etc."

### Good Luck on Tests

"I certainly have had luck in recent nights," admits Francis Eugene Andres, 104 North 19th Street, Wheeling, W. Va. "The West Coast stations have been rolling in. During the past two nights I have added six new Californians and one new Washington. One of the former was KWG with 100 watts. They sign off at three o'clock EST and play taps immediately after the announcement. KERN, Bakersfield, interferes with them some. I also had KFVD, Los Angeles, 250 watts. I received close to 200 of the stations on frequency tests and my log has increased from about 200 to 426. I have only one more New Mexican to get and I will have completed that state. I have little trouble in receiving KOB every Friday and Monday night from 9:15-10:00 EST. From 9:45 to 10:00 they have a Hawaiian program. I am using a 10-tube Clarion superhet and it has proven its worth by separating WCAU-KOB-WOAI. I had a pleasant surprise on the last frequency check when I received KFPM, Greenville, Tex., 15 watts, despite heavy static."

"After reading RADEX for over three years, I have at last decided to write you," pens Lauren Collins, 1610 Lexington Ave., Indianapolis, Ind. "In the first place, I cannot tell you how much I enjoy RADEX. To date my log

is 339; Mexico 9, Canada 16, Cuba 5. I am a b.c. listener and I do not log stations a second time unless they change their call, frequency or location. I use a Philco model 87, four years old. On Saturday morning, October 7, I pulled in all the stations testing (except the four which were scheduled for September only) in a steady downpour of rain. Pretty good, isn't it? I am contemplating buying a Midwest 16 receiver, but have hesitated due to its low price and would like to hear from everybody who uses one. I will answer all letters."

### "A Rank Novice"

"I am a comparative newcomer to this DX racket," admits Jack Land, 603 Milton St., Toledo, Ohio. "The purchase of RADEX brought it all about. For many years I have been a DXer, so to speak, but never went in for verifying my catches. However, I now have 160 veris and over 100 out in the mail. You may be interested in knowing that almost every one of the stations listed in the September RADEX, that were to test for the F.R.C., have done just that. On the October tests I got 137 stations. The best I've heard in this week of DX are: KGA, KGFF, KFJB, KGHF, KFYR, KFNF, WOCL, WQAM, KFJM, WQDX, KGBZ, KFOX, KBTM, KGHL, and last but not least, WKAQ. Not bad for a rank novice. I'd sure be pleased to hear from DXers anywhere, particularly Newark News members, as I am a member of that club."

"For quite some time I have been reading of the results obtained by radio fans in your magazine," remarks E. C. Weiskerger, 127 Prospect Ave., Scranton, Pa. "I, too, enjoy sitting down at my radio and experiment at bringing in distant stations. I purchased a new radio about three months ago, but it wasn't until the first of this month (October) that I did any concentrated DXing. Now I have logged every station of 5000 and over in the U. S., excepting KEX and I have not been at my radio after 11:00 p. m.. with the exception of one night

when I stayed up till midnight. I have also listed three Mexican stations: XER, XEPN and XEW."

### Short Waves Too

"Since August 25 I have received 201 stations in the U. S. on the broadcast band," reports M. Lloyd Bond, 138 Shippen St., Weehawken, N. J. "44 of these are 2000 miles or more distant. Also some in Mexico, Canada and South America. On short waves I have received GSA-B-C-D-E-F; DJA-B-C-D; P R A G, LSX, EAQ, W3XY (a new station on 3420 kcs.); W3XAU, VK2ME, many 'phones, J1AA, ships, I2RO, FYA, W3XAL, VE9GW, W9XF, VE9DR, W8XAL, W2XE, many amateurs, police, airplane and television stations. I would like to correspond with persons 17 years old, and those with Philco 470 sets. My aerial is 240 feet long, running N. to S., and my ground is a bundle of copper rods wrapped in copper wire and buried 4 feet underground."

"I have been DXing for about three years, but until February of this year, when I saw your magazine for the first time, I had always been handicapped by inefficient station lists and station news," admits Wm. Goadby, 45 East 85th St., New York, N. Y. "But now with RADEX I am fully equipped for DXing. On June 14 I received a Lafayette 5-tube 200-2000 meter set. I immediately started to work pulling 'em in, and now have 185 stations which, considering that most of them were received during the summer, is not so bad. I think you should print the actual location of the transmitter of a station instead of where the studios or business offices are located."

### Another New Member

"I am a new member of the DXers," remarks Richard Pulford, 41 Ives St., Waterbury, Conn. "How it came about was that I have had two small RCA's and I was not satisfied with the distance I got on them, so I bought a new A.K. 708 cabinet model, long and short wave. I went looking for radio

books on short waves and came upon yours. I find it is priceless when it comes to information. I have already set in one of the grounds which was mentioned by E. O. Cutler in the October issue, although I have not tried it much as yet, but I think it has improved my set a lot."

"I am fifteen years old and, as I go to school, can only DX on weekends and holidays, even then without the complete approval of my parents," confesses David Walton, Box 87, Picton, Ont. "I have a log of 414 stations, my best catches being HHK, YV1BC, CKMO, WKAQ and 2YA, the last two verified. I have a five-year-old 6-tube DeForest Crosley, in which the chief fault is lack of selectivity. I am weak on low-powered west coast stations, having only one under 250 watts, CKMO. I am making the new ground described in October RADEX and hope for great improvement."

"My radio is a Sparton, Model 936; we can separate WGR and CKLW which in this part is considered pretty good," narrates Leo Shelly, 125 Lake Street, St. Catharines, Ont. "I have a log of 64 stations since I have been DXing with 330 verified. I expect to verify a lot more this year that I never sent to before. By the way, the antenna for our local station, CKTB, is now built and it sure is a nice one. It stands 230 feet in the air and the towers supporting the single aerial are 14 feet wide at the bottom. It is only a few hundred yards from Lake Ontario."

### Logs Are Growing

"The DX weather here has been fine with the exception of a little static," reports James Lees, Excelsior, Minn. "My log is growing every day. I have a total of 92 stations, with 87 of them verified. I have had exceptional luck in receiving veris from the nearby stations. My most distant catch is PPQ, a short wave station in Rio de Janeiro. I would like to correspond with any other radio fans in the U. S. or any other part of the world, and most of all those who are using a Mel-

rose set."

"I get a great kick out of your Index and DX programs," admits Douglas Chisholm, 254 Wellington Crescent, Winnipeg, Man. "I went to sleep over the dials this morning early listening to the program. Last night alone I got WENR, WBBM, WGN, WLW, CKY, WDIS, KSTP, WOAI, KMOX, WCCO, WSM and KFYZ. Pretty good for one night. My dial runs from 1-100 so I couldn't use kilocycles. Up to date 12 stations are not bad. I'll be up for all the DX programs all winter."

"I have an RCA Model 60 super-heterodyne made in 1929. Is there anything that can be done to give it sharper tuning and more distance?" asks Archie Ferrie, 38 Glenmanor Drive, Toronto, Ont. "Such stations as WBEN take at least 40 kilocycles. This is worse from 800 keys. down to 550. Distance on this set is sometimes good, but I have never heard Japan, Australia or Europe. Best verified after three years are HJN, YV1BC, KID (250 w., 1700 miles), KFOX, KFAC, and WGCM (100 w., 950 miles)."

"I live in a hotel in the midst of downtown, ten floors up. I have an aerial on the roof running east to west and north to south—about eighty feet altogether—with a 100-foot lead-in to my room and, surprising as it may seem, interference is slight. The best I can do for a ground is to use a radiator. I expect to get a short-wave converter soon for my new General Electric Model K-50-P receiver." This report is from Sam J. Keiffer, Jr., Hotel Missouri, St. Louis.

### Back in the Harness

"I recently sat down at my set and twirled the dial and passed over 680 kcs. just as KPO announced its call at 9 p. m. EST," says Joe Stokes, 7318 Woodlawn Ave., Swissvale, Pa. "I had not been doing any DXing for nine or ten months but this brought back the old urge and I then pulled in KNX, KOA and KFI in the order named. Now I am back in the 'harness.' So I

went out to hunt up a new RADEX and set the dial for 960 and there was CRCT. I am again eligible to the 'All Night Sitters' Club.'"

"Due to the press of other affairs recently," announces Donald Bobb, 214 Taylor St., Black River Falls, Wis., "I have been forced to drop my DX work, but am now taking it up again. I use a 9-tube, Model 90, Philco super-heterodyne. My record is 400 stations received and verified, all in North America and the West Indies. Please put my name in RADEX as one who wishes to correspond with other DX-ers and who will answer all letters. I particularly wish to hear from those of my radio friends with whom I was corresponding in 1931 and 1932."

"In spite of the fact that I have verifications from CMGE, JOHK, 2YA and 4QG," remarks Albert Sandham, 99 Page St., St. Catharines, Ont., "I count as my best a card from KFPM, that great little 15-watter in Greenville, Texas. I received them on their test program and they came in much better than the other Texans. To date I have exactly 650 stations logged, with 254 of the best verified. I am looking forward to CP4's program. Those are the kinds of DX broadcasts we want."

#### The Calendar Helps

"I now have 582 stations," reports George Othen, 804 First St. So., Willmar, Minn. "Your DX calendar is good. I have received many stations that I could not have received if I had not known when they were on the air. Last winter I got 113 new stations from September 12 to April 14. The greatest distance was KGU. I still use a Majestic as they reach out and get the stations."

"Since I started using RADEX my log has increased from about 225 stations (mostly in the U. S.) to a total of 639 stations, representing 14 countries, exclusive of the U. S.," reports Lloyd S. Hahn, 2810 Laurens St., Baltimore, Md. "I have stations verified in Australia, New Zealand, Haiti, Dominican Republic, Colombia, and Venezuela, among others."

"With receipt of the October issue of RADEX and the buying of a Model 43 Philco I am ready for the new season," comments Fred Wakerell, 32 Boteler St., Ottawa, Ont. "Last season's log totaled 611 and included VK2CO, VK5CL, ZL2YA, Poste Parisien, YV1BC, KGU, CKMO, CKWX, KJBS, KERN, KFJB, KGFI. On my new log, short and long wave, I have nothing to be proud of. Just TGW, GSB, T14NRH, DJD, GSD, GSE, VE9JR, Pontoise, DJB, PLF, EAQ."

"My log stands at 562 on our Victor R-35," postcards Howard R. Garrett, 171 Hillsdale Ave., East, Toronto, Ont. "My best catches are: YV1BC, RUS, 4QG, LR2, LR4, KPFC, KFPM, KXO, XEAO, WNBW, CJCB and KGU. I would like to hear from someone with a Victor R-35. I have at least one station from every state and every province. Together with my outside aerial, I use an Elimino inside aerial and four grounds."

#### Reception Improving

"DXing is coming into its own," says Sam Kiamie, 2857 Sampson Ave., New York, N. Y., "now that the cooler weather is here. Some of my latest catches, received on my Grebe 88, are KRE, KGAR, KGFL, KBTM, KIDW, WACO, WTRC, KGDE, KGHF, WLB, WLBL, WHAD, and many other dandy catches. All of these were received on speaker with volume plus. Most of these catches were received on account of the F.R.C. tests."

"My new Sonora All-wave receiver is a very sensitive little set with a lovely tone," reports N. H. Scott of Red Deer, Alberta. "It is quite good on the short waves although there is the usual fading. I listened to the 'Roxy Gang' on Sunday from New York and held the program without much fading at all and that is pretty good considering the fact that there is a dead spot east of me and a range of mountains directly west."

"I have been DXing for a year and now have 355 stations, including 29 shortwave and police," comments Clarence Merkel, Jr., 622½ No. 7th St.,



Quincy, Ill. "I have 18 police ranging from 1534 to 1712 kcs. My best catches are WRDO, CHML, WSOC, WGNV, WJEF, CHAB and 10-BQ. I have a Crosley 9-tube superhet and I think it is the finest radio going. I would like to hear from other Crosley users."

"I surely did add a large number of stations to my list in this month's frequency tests," remarks James Owen, 1019 W. Webster, Springfield, Mo., "62 to be exact, bringing my total up to 444. The weather here was perfect for DXing and I managed to get up between 1:00 and 2:00 CST each morning during the tests."

"This is my first letter to the DX round-table," greets Warren Hyser, Holland, Mich. "I just started DXing in June and to date I have 386 stations, including 50 100-watters and five 50's. I would probably have more but I am only 14 and can't let DX interfere with my school work."

#### Logged WEE?

Fred Stone of Kintnersville, Penna., sends us a description of the smallest radio station in the world which is now on display in Easton, Penna. Station WEE, .04 watts, has a range of only 200 feet but it is complete in every detail. Fred tells us his log now stands at 428 stations, all received before twelve o'clock at night.

"This is my first year of DXing," comments E. Brooks, 5408 Forest Ave., Kansas City, Mo. "I have an 11-tube Majestic and it sure is a great radio. I have logged 176 stations since February. Not bad for a beginner. Just received verification from KGIW (100 watts)."

"I have received 265 stations in 19 months using only the loud speaker of my radio," states Glen V. Phillips, 97 Oakdene Ave., Grantwood, N. J. "I have heard five stations in California, two in Washington, and many others of 100 watts and less."

"I heard station WILM very clearly last summer between 6:00 and 7:00 a. m. EST," writes Russell Geiger, Poland, Ohio. "It was not on Sundays at that time and only certain days of

the week. This may help Miss Margaret Parks (September issue) find her 48th state."

"For the benefit of any DX fan who hasn't pulled in Idaho yet," advises George Burnett, 604 Sycamore St., Buffalo, N. Y., "might try KTFI on 1240 kcs. about 1:00 a. m. EST. They sign off about 1:20 a. m. EST. This is their regular program and not a test."

H. Searles, 349 Broadway, Rochester, N. Y., says he logged 47 new stations in eight evenings. Among them were CMC, KFEL, KTM, KTFI, WWAE, WEXL, KSO, XEW, XEFO and WEBQ.

## STATION NOTES and DX TIPS

FROM little HIH down in the Dominican Republic, comes information regarding the DX programs which will be found in this month's Calendar. In December, they tell us, they are going to have a program dedicated to the readers of RADEX. We hope many of them will tune it in and report it. For the benefit of our overseas readers, this station will broadcast on the first and fifteenth of December, January and February from 1:00 to 2:00 a. m. EST and will gladly dedicate these programs to radio clubs requesting it. This 15-watt station should be eagerly listened for by our DXers.

\* \* \*

"Tips for the International DXers Alliance are broadcast from the following stations," writes Robert Rosenberger, 17 Janssen Place, Kansas City, Mo. "WDAF, Saturday night, 1:25 to 1:30 a. m. EST; KFOX, before the Saturday night sign-off; YV2AM, 7125 kcs., 8:00 to 10:00 a. m. Sunday. New Zealand's foreign tips: KMBC, 12:50 a. m. to 1:00 a. m. Saturday night. We are organizing a tip chain all over the U. S. A."

\* \* \*

Here is a combination program that

is well worth the efforts of both broadcast and short wave DXers: The American Consul at Santo Domingo, D. R., notifies Rudolph Kure, Cincinnati, that HIX will have a special DX program beginning at 12:30 EST on Thursday morning, November 30. The program will be broadcast simultaneously on 579 and 6000 kcs. with a power of 1500 watts.

\* \* \*

Alfred W. Oppel, Executive Secretary of the Newark News Radio Club, tells us that the Club will verify all correct reports for station WAAT, that Ekko stamps will be issued for ten cents and that all letters and reports will be answered. Postage should always be included. The only DX programs of WAAT this year will be dedicated to the NNRC.

\* \* \*

Evidently the new 500,000-watt transmitter of WLW at Cincinnati is going to be a "hot" station. A press clipping reports that enough water will be used each day to cool the tubes of the giant transmitter, to supply the wants of 6,000 average families. The new super-powered station will be ready for test broadcasts some time in February and radio listeners everywhere are wondering what is going to happen on their sets.

\* \* \*

Station KUAO at Fayetteville, Ark., are off the air installing a new transmitter at a new location, Mount Sequoyah, about two miles from Fayetteville. They state they will be ready to "shoot" from the new transmitter about November 7th and will wire us the date of a special program which they are good enough to offer to dedicate to RADEX readers.

\* \* \*

Radio Station WFLA-WSUN are now giving a special DX program nightly from midnight to one o'clock EST. These will continue until April 30th at which time their schedule will drop back to close at midnight. They advise that they receive many reports of reception from Oceania on these after-midnight programs.

Station WOCL, Jamestown, N. Y., on 1210 with only 50 watts, tell us they were picked up in Palmerston North, New Zealand, on their frequency test of September 6th. How many DXers in America have picked up a 50-watt New Zealand station?

\* \* \*

Station WCLO at Janesville, Wisconsin, tell us that they will probably take part in a grand frolic of the 1200 channel the third Sunday in January although the definite time is not yet known.

\* \* \*

WFIW of Hopkinsville, Ky., has been sold to George W. Norton of Louisville and is being moved to the latter city. It is not known how soon it will be operating at its new location.

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## WHO Can Answer?

"ON September 11, at about 8:00 p. m. EST," remarks 12-year-old Russell Geiger, Poland, Ohio, "I received a station on 835 keys., which announced in Spanish and played classical selections. I tuned in on it at about 8:00 and just before the 8:30 announcement they stopped the music and a man stepped up to the microphone and said, 'Au Revoir, Auf Wiedersehen, Buenos Noches, and Good Night!' Each one in its correct foreign accent. The announcement followed, but seemed like no more than a lot of Spanish all rolled and jumbled together, and although I had brushed up on my Spanish I could not hear anything which sounded like letters to me. On Thursday, October 5, I heard this same station, much clearer, and they were playing band music. This was at about 9:00 and, as the first time, I could not understand the announcement. I wonder if anyone else could have heard this same station at either of these times. The radio is very accurate and I am certain that it was on 835 and not a station on 830 like KOA or WRUF. I am anxious to

identify this station, as 840 is the only channel on which I have not received at least one station."

\* \* \*

"I started DXing last January," begins D. F. Mason, 53 Atlantic Avenue, Halifax, N. S. "Since that time I have logged 520 stations. I use a Sonora, Model 050, and with this really marvellous little set, I have logged at least one station in every state, at least one in every Canadian province and some foreign stations. In conjunction with a 63 foot outdoor aerial, I use an Ollie Ross ground and a line filter. I find this a great combination. Here's a question I'd like you to answer if possible. On Thursday, the 26th of October, I received a Spanish-speaking station on 870. This station cut through WABC several times but never long enough to identify. The only station I can find in RADEX around this wave which it may have been, is LR2 in Buenos Aires. Do you think that this station could be received here? The time was 8:16 to 9:03 EST." Have any of our other readers in the East identified this station?

\* \* \*

"I own a 1933 Stromberg-Carlson 10-tube set purchased last December," states A. Belanger, 76 Hotel-de-Ville St., Hull, Que., "and I don't think there is any finer broadcast receiver on the market today. I don't do very much DXing, but enough that so far I have a station on every channel of the band and 40 states out of 49 including D.C. I have been trying to get YV1BC and KGU for a long time, but I never did connect with the slightest hint that my wish might have been satisfied. I would be much obliged if you could give me some tips that would help in tuning in these stations."

\* \* \*

"Until this year I was using a Radiola RCA 20 and logged 300 stations," writes George Burnett, 604 Sycamore St., Buffalo, N. Y. "I just purchased a Midget Majestic 6-tube Model 411. During the past week I've

added a couple of good ones to my list: KFPY, KTFI, KGHL. I have YV1BC and WKAQ verified. I would like to know if there is anybody in the east receiving LR4 regularly, and the best time to catch them."

\* \* \*

"I would like to have someone tell me when I can get WCAX so I can verify them," is the plea of B. L. Ahman, Jr., 3313 Westerwald Ave., Baltimore, Md. "I have trouble getting WCAX although I have the other Vermont stations verified." Mr. Ahman reports CMX, WIBG, VONF, XES, XEPN, CKWX, XEAW, CMQ, CKPC, KDB, 10-BP, YV1BC, HJN, KTAR and WHBC among his recent catches bringing his verified total to 376.

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"I have heard unidentified Cubans on 1315—1355 kcys.," questions Edward B. Davis, 120 Northampton St., Easton, Pa. "I often hear the word 'Habana' but can't seem to catch the call letters."

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"There seems to be a station on 860 kcys.," questions S. B. Leland, 82 St. John Place, New Canaan, Conn., "nearly every morning at about 5:30 EST, which I would like to identify, and may be a good catch."

## Double Reception

"I FEEL that there must be some mistake in the idea that 'half-harmonics' are impossible," thinks William Barnett, 2896 Sydney Street, Jacksonville, Fla. "I have received WCKY several times on its half-harmonic very clearly." This subject of harmonics was covered quite fully by Mr. Dashiell in an article in the January, 1933, issue of this magazine, and also in his answer to an enquirer published on page 22 of the May, 1933, number. "There is no such a thing as a 'half-harmonic'," says the Technical Editor. "Harmonics are always multiples of the original broadcast frequency—never fractions

. . . . However, a regenerative receiver produces a considerable amount of harmonic energy and it is possible to receive signals on the second harmonic of the receiver (when tuned to a certain frequency). For example: If your receiver happens to be tuned to 525 kcs. so it will oscillate, its own second harmonic will be 1050 kcs. The set is thus made very sensitive at 1050 kcs. and there will be a decided tendency to pick up a station on 1050."

"I have read with interest the notes on reception of stations on other frequencies than their own which cannot be accounted for by harmonics or parasitic radiation," contributes C. H. Skatzes, 45 Flax Street, Delaware, Ohio. "If these readers are using superhets, the reception is probably due to a characteristic known as 'image.' I receive WCAH on 1050 very weakly."

And Harold F. Barnes, 1526 Fifth N. E., Canton, Ohio, adds: "In my case, if I set my dial to 720 kcs. in the day time, I will receive WTAM very faintly. (If I touch the grid lead to the detector tube, it will come in just as loud as it does at 1070.) Here is what happens: The intermediate frequency that my set is peaked at is 175. That means that when I tune in to 720 kcs., the oscillator circuit is tuned to 895 kcs. at this point. The rule for beat frequency is that it will always equal the difference between the resonant frequency and the oscillator frequency. Since my oscillator circuit is tuned at 895 and WTAM is 1070, we see that the difference is 175 kcs., therefore these signals will also pass through the intermediate amplifier. These signals are weak because they do not have the benefit of being amplified in the first r.f. stage. Only the resonant frequencies are amplified."

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*If you are interested in foreign stations on the broadcast band, we can send you a DX Log of the World for ten cents.*

## Verifications as Americana

By GAYLORD JOSEPH BELL\*

I'VE been a reader of RADEX since I read the first issue and began DXing, September, 1931. I feel I ought to tell you just how much your fine publication has aided me in getting such stations as JFAK, JOHK, 2CO, 5CK, 2BL, and many, many others. I have verifications coming in almost every mail now. This promises to be an extraordinary year for DXers, don't you think? Before the month of August (of all DXing months!) was over, I'd caught two new Australians and one Asiatic, in spite of static designed to kill a horse! I thank your DX Calendar.

I've an idea that verification collections will some day be valued as a phase of what other collectors call Americana, since radio is yet in a comparative infancy. So it is that I try to get as many Canadians as I can, what with the impending Commission changes in that country, since deleted stations, if verified before deletion, add considerably to the worth of one's collection, as do stations logged and verified before they change their channel, or increase power, just as first editions of books are of greater value than later printings. Look at coin and stamp collectors today: the rarest, largest, finest collections are commanding higher prices and are bid for and sought for their value. Well, why not similar value for collections of Early American Radio Stations, The First Western Radio Stations, etc., a few years hence? I would like to know what some readers think of this idea.

When I catch a new station, which, because of low power, or distance, I think is a good "reach," I always ask the station, when I write for the verification, whether or not I'm the first in my State to get them. I think such data as this, on the resulting verifica-

tion, enhances its value quite a bit.

Situated here on the Pacific Coast, it is difficult to get many W's, and it is only by persistent DXing that I've landed as many as I have. Still, here on the Coast, we are doubtless advantageously situated when it comes to trying for the Oceanic and Asiatic stations. How I'd like to land an European station! Maybe . . .! Who knows? Radio is so strange—and fascinating!

My set is a three-year old Gloritone, five-tuber, with two of the new tubes. I'd like very much to hear from others using my set, particularly those who've found ways to rejuvenate the set with new tubes, etc. By the way, there's a swell job for your splendid magazine—publish by installments, ways of treating old, standard types of radios, to bring them up to rating with the newer sets. These are still rather depressing times and all of your readers would appreciate such a department, I believe. And I hope you plan another list of DX Clubs? Aren't there any here in Washington—or even on the Pacific Coast?

\*909 Second Street, Mount Vernon, Washington.

## Working the T-Ps

WHILE it may be somewhat exasperating to readers who have tried and tried unsuccessfully for the Trans-Pacific stations, yet publishing the stories of those who do receive them gives proof that they can be received, not merely on the West Coast but in various parts of the U. S. and Canada. To tune these stations in for the first time requires unlimited patience and determination. The stations are on the air and their signals are without doubt right in the very room in which your receiver is located. The trick is to find them and pick them up.

"The T-P's have started to come through again," advises William E. Johnson, Vinalhaven, Maine. "Received 2BL and 2YA October 5 and 6.

Both were good enough to get announcements on. Last winter was a banner one for me, as I have received veris on the following: 4BC, 2YA, 2UE, 3YA, 4BH, 3DB, HJN, YV1BC, KGU. I received 2BL many times last year, but they were the only ones to refuse my request for verification. I will try them again. I am in hopes of receiving a JO station this winter. As yet I haven't even thought I heard one."

### A Thrilling Morning

"I had a most unusual experience and received more thrills this morning (Oct. 14) than I ever had before in my DX career," relates Raymond Corbett, 619 12th St., Sacramento, Calif. "Little did I know when I tuned in JOHK at 1:10 that before the morning was over I was to hear *twenty-two* Japanese stations. Never expect to duplicate this feat again and I will be satisfied even if I never hear a Jap again. My new ones were JOTK, JODK, JOKK, JOPK, JOOK, JOXK, JOCG, JOBG and JOAG also a new one on 900. (JODK-2 at Keijo, Korea, is on 900. Ed.) We happened to be giving a party that morning and 29 persons got the 'thrill of a lifetime.' All in all, it was just one of those 'believe it or not' mornings."

"There seem to be quite a few new Jap stations," informs R. W. Schofield, Manager, The Wilma Plunge, Missoula, Mont. "Tuesday morning, October 17, I tuned in and out of 26 stations on my dial all the way from 1080 to 590 kcs., with the stations coming in with the same program (as near as I could determine) about every 20 kcs. Also tuned in and out of about 8 New Zealand and Australian stations. All this, believe it or not, without an aerial."

From Warren Winkley, Box 12, Hughson, Calif., comes this report: "During the past week I have received verifications from 2BL in Sydney, Australia and JOIK in Sapporo, Japan. The former station, logged and reported on August 19th, congratulates me on my summer-time reception. Here is the schedule of 2BL:

Monday to Friday inclusive 7:00-9:30 a. m., 11:30 a. m. to 5:30 p. m., 6:15 to 10:30 p. m.; Saturday 7:00-9:30 a. m., 11:30-5:30 p. m., 6:15 to midnight; Sunday 10:55 a. m. to 3:00 p. m., 4:30-10:00 p. m. (For EST subtract fifteen hours from the above; better yet use the RADEX Time Converter. Ed.) JOIK lists their evening programs beginning at 5:35 and closing at 10:00 p. m. (Japanese Standard Time is 14 hours faster than EST) I have just finished an all-night DX-feast; here are my results: New stations are KGIW, Alamosa, Colo., WGL, Fort Wayne, Ind., JOFG, Fukui, Japan, JOCK-2, Nagoya, Japan and JOBK-2, Osaka, Japan. JOFG although only 500 watts was about the loudest of any. During the night I heard 20 Japanese stations. I'm still using my 1928 Atwater Kent with a new 200 foot aerial, north and south. I held XGOA, Nanking, China, on 655 for over four hours." (A late list from China shows XGOA on 681.8. Ed.)

### The Aussies

Two of our readers having reported gala nights with the Japanese stations, here is a report from W. T. R. Morris, Jr., 3219 Garland Ave., Richmond, Va., on a case of quantity reception of the Australians: "Tuesday morning, October 10, must have been Australia day in radio. I tuned in eight Australians that morning. And the funny part is that 2YA, Wellington, N. Z., which is heard here nearly every morning, could not be picked up at all. But the Aussies were pounding in. I couldn't listen to them all at the same time so I picked out the loudest and jotted down their programs. Here is a list of those I heard: 2CO, Corowa, on 560; 5CK, Crystal Brook, on 635; 2FC, Sydney, on 665; 3LO, Melbourne, on 800; 2BL, Sydney, on 855; 2GB, Sydney, on 950; and one unidentified on 815. Can any one give me a hint on that last one? (Was this 1YA at Auckland, N. Z., on 820? Ed.) This morning, Oct. 12, I picked up Ketchikan, Alaska, on 900 with only 500 watts. Logged him from 3:37 to

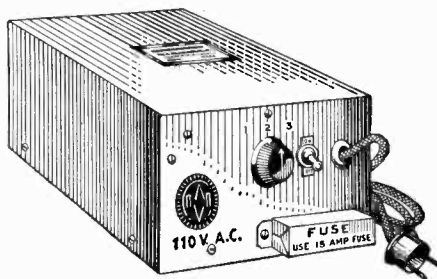
3:59 a. m. when he signed off. I'm sure that this winter will be a wow for the T-P's. Only had one or two Japs so far and then couldn't log their reception—entirely too weak. XGOA seems to have faded away lately. They used to be fairly good here."

"No one ever mentions what kind of nights are best to try to hear the T-P stations," observes Guy B. Welsh, 114 Brown Street, Reynoldsville, Pa. "I think that if DXers who hear the Japs regularly would notice what other particular stations are coming in at the time and would advise you, it would help a number of readers who have difficulty getting over the Pacific. I find that if KGFJ is coming in, almost invariably the signals of the trans-Pacifcs between 1000 and 1500 can be heard. If KPCB, KTM or KMPC are especially good, look for the T-P stations between 550 and 1000 kcs."

*For the benefit of those particularly interested in tuning in the Trans-Pacific and other foreign stations, we have issued a DX Log of the World.*

*It contains all the broadcast stations of the world in three lists—by frequencies, by call letters and by countries, states and cities.*

*The price is 10 cents per copy.*



*The Electronic Converter*

## Converting D. C. to A. C.

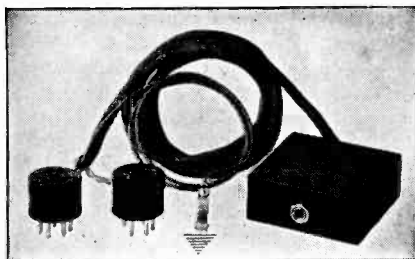
**M**ANY a person who has a fine a. c. receiver or who wants to buy one but is located where only direct current is available, will be interested in this simple device for converting direct into alternating current. It is the Electronic Converter for 110 volts d. c. with an output of 110 volts a. c. at 200 watts. It is said to maintain a constant output voltage from the transformer during the entire cycle of operation of the power supply. It is of small size, quiet operation and attractive appearance.

The manufacturers are the Electronic Laboratories, Inc., 122 West New York St., Indianapolis, who make converters also for 32 volts with 100 watts capacity and eliminators for 32 volts d. c. and 6 volts automobile radio.

### An IDEAL METHOD for Attaching Phones

**T**HERE have been two general methods of attaching phones to modern sets both of which have been described at length in this magazine. The first required a plug-in adapter. With this method it was necessary to take out both power tubes whenever it was desired to use phones and place the adapter in either socket. As everyone knows it is a nuisance to remove and replace tubes particularly when the prongs must be fitted into holes in the bottom of a deep shield. Then, too, the removal of a tube must necessarily change the load on the speaker. Most manufacturers warn against the operation of a receiver with any of the tubes removed.

The second method required the use of a wafer adapter which was placed under one of the power tubes and left there permanently. The disadvantage of this method was that it did not cut out the loud speaker. To



*The Perfect Phone Adapter*

silence the speaker it was necessary to cut the voice coil wire and insert a switch. It is always a hazardous thing for a non-technical person to cut or make any changes whatever in the wiring of a set.

A third method which has all the advantages and none of the disadvantages of the older ones, has now appeared. It makes the use of phones available exactly as they would be if the manufacturer of the set had arranged this in the design of his receiver. We have submitted one of these devices to our Technical Editor for a thorough test. He writes: "The Perfect Phone Adapter is so simple and so really correct in principle, that I cannot understand how I failed to think of it myself! The outstanding feature of the device is its ability to cut out the speaker at will but without unbalancing the receiver. When the phones are desired the plug is inserted in the jack box and the loudspeaker is automatically silenced without its circuit being opened. The jack merely connects the phones in series with the grid contacts of the power socket or sockets and at the same time grounds the grids. The bias thus thrown on the tubes renders them inoperative although the filaments remain lighted."

The unit consists of either one or two adapters depending upon the number of power tubes in the set, a cable of generous length leading to a crackle-finish metal box which contains the jack. The adapter or adapters are placed under the power tube or tubes and left in place. The jack-

box may be placed in any convenient location. It may even be screwed to the under side of the cabinet out of sight as the plug may easily be inserted by sense of touch.

The Perfect Phone Adapter comes with either one or two socket-adapters and these are furnished with four, five, six or seven holes as may be required by the number of prongs on the power tubes.

As the signals for the phones are taken off before they are amplified by the power stage, they are of suitable volume for the ears and there is no danger of heating or burning out the coils in the phones.

The Perfect Phone Adapter is sold by Radio Parts Co., 1401 Prospect Ave., Cleveland, O.

## FREQUENCY Checks

(Continued from page 4)

Okla. City	KFXR	1310	3:20	Fri.
	KGFG	1370	4:30	Fri.
Ponca City	WBBZ	1200	4:20	Wed.
Shawnee	KGFF	1420	5:30	Thur.
<b>OREGON</b>				
Eugene	KORE	1420	7:20	Mon.
Klamath Falls	KFJI	1210	7:00	Mon.
Marshfield	KOOS	1370	4:30	Mon.
Medford	KMED	1310	7:10	Mon.
<b>PENNSYLVANIA</b>				
Altoona	WFBG	1310	2:40	Wed.
Carbondale	WNBW	1200	2:10	Wed.
Grove City	WSAJ	1310	2:20	Wed.
Hazleton	WAZL	1420	3:20	Mon.
Johnstown	WJAC	1310	2:00	Mon.
Philadelphia	WHAT	1310	2:50	Mon.
	WTEL	1310	3:10	Mon.
Pittsburgh	WWSW	1500	2:40	Mon.
Reading	WRAP	1310	4:40	Mon.
Silverhaven	WNBO	1200	4:30	Mon.
Sunbury	WJBU	1210	4:50	Mon.
Wilkes-Barre	WBAX	1210	3:50	Mon.
	WBRE	1310	4:20	Mon.
Williamsport	WRAK	1370	2:10	Mon.
<b>PORTO RICO</b>				
San Juan	WKAQ	1240	3:10	Thur.
<b>SOUTH CAROLINA</b>				
Charleston	WCSC	1360	3:20	Thur.
Greenville	WFBC	1200	2:20	Thur.
Spartanburg	WSPA	1420	2:10	Thur.
<b>SOUTH DAKOTA</b>				
Huron	KGDY	1340	4:10	Sun.
Pierre	KGFX	630	4:40	Sun.
Rapid City	WCAT	1200	3:50	Fri.
Watertown	KGCR	1210	5:10	Sat.
<b>TENNESSEE</b>				
Jackson	WTJS	1310	4:10	Tues.
Knoxville	WROL	1310	4:50	Tues.
Memphis	WHBQ	1370	2:20	Tues.
	WNBR	1430	4:10	Thur.
Springfield	WSIX	1210	5:30	Tues.
<b>TEXAS</b>				
Austin	KNOW	1500	5:40	Thur.
Beaumont	KFDM	560	5:00	Sat.
Brownsville	KWWG	1260	4:00	Sun.

College Sta.	WTAW	1120	3:20	Sat.
Corpus Christi	KGFI	1500	5:10	Fri.
Dallas	WRR	1280	4:30	Sun.
Dublin	KFPL	1310	3:40	Fri.
El Paso	KTSM	1310	3:20	Thur.
	WDAH	1310	3:00	Thur.
Fort Worth	KFJZ	1370	4:50	Fri.
Galveston	KLUF	1370	3:10	Thur.
Greenville	KFPM	1310	3:40	Thur.
Harlingen	KRGV	1260	4:20	Sun.
Houston	KPRC	920	4:40	Sat.
	KTRH	1120	3:00	Sat.
	KXYZ	1440	3:30	Sun.
Lubbock	KFYO	1310	4:00	Thur.
San Angelo	KGKL	1370	3:30	Thur.
San Antonio	KABC	1420	4:40	Fri.
	KMAC	1370	3:50	Thur.
	KONO	1370	4:50	Thur.
	KTSA	1290	3:40	Sun.
Tyler	KGKB	1500	5:30	Fri.
Waco	WACO	1420	4:50	Wed.
Wichita Falls	KGKO	570	5:00	Sun.

<b>VERMONT</b>				
Burlington	WCAX	1200	3:00	Mon.
Rutland	WSYB	1500	3:10	Mon.
St. Albans	WQDM	1370	3:30	Mon.
Springfield	WNBX	1260	4:10	Mon.

<b>VIRGINIA</b>				
Charlottesville	WEHC	1350	3:30	Wed.
Danville	WBTM	1370	2:30	Mon.
Lynchburg	WLVA	1370	3:00	Mon.
Petersburg	WPHR	1200	2:50	Wed.
Richmond	WBBL	1210	3:20	Wed.
	WMBG	1210	4:10	Mon.
Roanoke	WRBX	1410	3:10	Wed.

<b>WASHINGTON</b>				
Aberdeen	KXRO	1310	6:40	Mon.
Bellingham	KVOS	1200	6:10	Mon.
Everett	KFBL	1370	4:50	Mon.
Olympia	KGY	1210	4:40	Mon.
Seattle	KRSC	1120	6:30	Mon.
	KVL	1370	5:10	Mon.
Spokane	KFIO	1120	5:50	Mon.
Walla Walla	KUJ	1370	5:30	Mon.
Wenatchee	KPQ	1500	4:00	Mon.
Yakima	KIT	1310	6:20	Mon.

<b>WEST VIRGINIA</b>				
Bluefield	WHIS	1410	2:30	Wed.
<b>WISCONSIN</b>				
Fond du Lac	KFIZ	1420	3:50	Thur.
Green Bay	WHBY	1200	3:00	Thur.
Janesville	WCLO	1200	4:30	Fri.
LaCrosse	WKBY	1380	5:30	Sat.
Madison	WHA	940	5:20	Wed.
Manitowoc	WOMT	1210	5:40	Thur.
Milwaukee	WHAD	1120	4:30	Wed.
	WISN	1120	4:50	Wed.
Poynette	WIBU	1210	5:10	Fri.
Sheboygan	WHBL	1410	4:10	Wed.
Stevens Point	WLBL	900	5:10	Wed.
Superior	WEBC	1290	3:00	Wed.

## SHORT WAVES

(Continued from page 33)

says he is curious to know if this station uses directional antennae, as he understands it is the phone link with Coco Head, Hawaii. Directional antennae are used, and as a rule it is much easier to hear the Hawaiian than the Californian stations. The signals cannot be wholly confined in one pencil-like beam, however, and with 40 kilowatts it is natural to as-



sume that some signals are being radiated in all directions from the transmitter.

In honor of the new short wave department of the International DX-ers Alliance of Bloomington, Ill., Station Y V2AM has issued a four-page printed announcement of a special DX program beginning at 8:00 a. m. EST on Sunday, November 12. An elaborate program has been arranged and Santiago M. Vegas, operator and proprietor of Y V2AM will present to the listener who sends the most complete report of the program, a set of Indian arrows, a souvenir of Maracaibo. The station which is an experimental one, will broadcast on 7.145 megacycles.

## The Technical Editor

*(Continued from page 23)*

off accordingly. On shipboard it would appear that current changes might come suddenly. Small d.c. power plants are subject to violent voltage fluctuations.

It might be well to consider the installation of some ballast or voltage regulator tube, or an Amperite device, in your power line circuit leading to the set. Your radio supply or service man can best advise you after seeing or learning of the model of the sets you are using.

## Betty's GOSSIP

*(Continued from page 17)*

a radio veteran of more than seven years.

His songs have been played time and again by leading orchestras, but he feels that his latest effort, "Dark Clouds" will prove to be his hit tune. Some day he hopes that his varied experience will be the means to becoming a great picture director. Walter is extremely fond of outdoor life, and his few holidays usually find him in the New Hampshire mountains. And being quite a versatile young man, he might be found there sketching.

Felix Bernard was born to art. His grandfather was a painter, sculptor and photographer, and his father was a musical director. Felix first took to dramatic comedy, and was connected with every show at school before realizing that music was really his forte. He has toured in plays, song and dance acts, and has been heard on the air between vaudeville tours since 1921. Born in Brooklyn, April 28, 1899, he attended school in that borough and later was a student at Rensselaer Polytechnic Institute. Felix is only 5 feet 4½ inches tall and weighs 138 pounds. Because of his size, he was determined to be a better athlete than his larger classmates and succeeded in carrying away medals for swimming and track. His name is connected with several hit tunes, especially the favorite of a decade ago, "Dardanella." His hobby is raising Scotch terriers—seven of them, in fact.

\* \* \*

Burns and Allen, that goofy pair, are in Hollywood, where they have signed to make three full-length Paramount pictures within the space of five months. The first picture George and Gracie will make is titled "Six of a Kind," in which they will be featured with Mary Boland, Charles Ruggles, W. C. Fields, and Alison Skipworth. The second will feature the dumb-crackers alone. In the third, they will join their fellow CBS artist, Bing Crosby, in a "Cruise to Nowhere."

\* \* \*

When his birthday rolls around, Bert Lahr invites 25 people at random from fans he has met through the mail. Then when they arrive, the housekeeper tells them he was suddenly called away. But, disguised as a butler, Lahr moves among his guests, getting the lowdown on what they think of him before he takes off his wig and discloses his real identity.

\* \* \*

The theory that the stage can furnish stars for the air but that radio cannot turn out stars for the

stage is no longer true—James Melton and Jane Froman have disproved it. They are two examples of artists who made big radio names and are now featured in separate musical stage shows on Broadway.

## New Zealand Aerials

(Continued from page 13)

strength, and at the same time, because of the proximity of machinery, introduce a predominance of noise.

### Avoid Chimneys

In erecting an aerial over a roof do not stay it to a chimney. An aerial taken direct to a chimney is a very sorry affair indeed, for it cannot have a vertical lead-in, and a large part of the horizontal portion must pass directly over the roof.

The question of single and double wire aerial often comes up for discussion, but without going into theory it can be taken that a double wire is of little value except where a very short aerial has to be used. In cases such as this the wires should be six feet apart. They may be joined to a single lead-in at one end.

Few of the fancy aerials have anything to commend them, and suffer considerably in comparison with an efficient inverted "L" aerial. In some localities it is more convenient to use the "T" aerial, this consisting of an aerial the lead-in of which comes from the dead centre. Care must be exercised to ensure that this actually is the case, and the lead-in does not come from any point other than the centre, for the total effective length of aerial is that of the lead-in plus the shorter portion of the horizontal top.

### Shielded Leads-in

Because the vertical portion is responsible for most of the voltage induced in the aerial, it is also responsible for picking up the greatest amount of noise, and this why it is often recommended that it be shielded. It is obviously wrong to

extend the shielding of the lead-in aerial all the way up to the horizontal flat top. With this type of noise reducing antenna the shielded lead-in starts near the ground and should run only as far as necessary to shield it from the nearby sources of interference.

\*Editor's Note: The "Radio Times" is published by Radio Publishing Co., of N. Z., P. O. Box 1032, Wellington, N. Z. It is an excellent monthly containing a great deal of information about Australasian stations and is the official organ of the New Zealand DX Club. The price is one shilling per copy or ten shillings per year.

## JUST ABOVE the 1500 Channel

A number of the new broadcast receivers will reach into the short wave band as far as 1700 kilocycles and for the benefit of those of our readers who have such sets, we are giving below a continuation of our Index by Frequencies from 1500 to 1700 kcs. To identify the amateurs who may be heard just above the broadcast band, listeners should provide themselves with a Call Book of the Amateurs, which they will find advertised on another page of this magazine.

Kilo-	Meters		
1534	195.45	KGHO	Des Moines, Iowa. (Police)
		WPGC	Albany, N. Y. (Police)
1544	194.18	W2XDA	New York, N. Y. (Exp. Relay)
1558	192.43	KGPD	San Francisco, Calif. (Police)
		WEY	Boston, Mass. (Fire)
		WKDT	Detroit, Mich. (Fire)
1570	191.08	WPEQ	Baton Rouge, La. (Police)
		WPEW	Northampton, Mass. (Police)
1574	190.48	KGPY	Shreveport, La. (Police)
		WMP	Framingham, Mass. (Police)
		WPEC	Framingham, Mass. (Police)
		WPEL	W. Bridgewater, Mass. (Police)
		WPEV	Portable in Mass. (Police)
		WRDS	E. Lansing, Mich. (Police)
1595	187.90	KFPA	"F. A. Ring," Boston Harbor
		KFPK	"A. J. McDonald," Boston Harbor
		KFPD	"J. P. Doud," Boston Harbor
1596	187.85	WCF	New York, N. Y. (Police)
		WRDU	Brooklyn, N. Y. (Police)
1604	186.92	W1XAU	Boston, Mass. (Exp.)
		W1XN	Middletown, Conn. (Exp.)
		W3XI	Baltimore, Md.
		W3XJ	Silver Spring, Md.
		W3XL	Boundbrook, N. J.
		W3XR	Mendham, N. J.
		W3XZ	Washington, D. C.
		W6XI	Bolinas, Calif.
		W9XAL	Addison, Ill.
		W9XY	Chicago, Ill.
1658	180.83	KSW	Berkeley, Calif. (Police)

# WHAT'S ON THE AIR TONIGHT?

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

COLUMBIA.....(C)	
Call	Dial

NATIONAL, Red (R)	
Call	Dial

NATIONAL, Blue (B)	
Call	Dial

CANADIAN.....(F)	
Call	Dial

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

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

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

## MONDAY

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

C — Buck Rogers in 25th Century

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

R — Waldorf Astoria Orchestra

KDYL KFYR KOA KPO KPRC KSD KSTP KTBS KTHS KVOO WAPI WBNB WCAE WCNH WDAF WDAY WFAE WFBG WFAA WFLA WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WMAQ WMC WOM WOC WRC WRVA WSAI WSB WSM WSNB WSOC WTAG WWJ WWNC

B — U. S. Army Band

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

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

C — Bobby Benson; Sunny Jim

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

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

C — Vera Van, Contralto

CFRB CKLW KLRA WAAB WABC WADC WBIG WBRC WCAO WDBJ WDRC WDSU WFEA WGBT WHEC WHK WHIP WJSV WKBW WLAC WLBW WMBG WOKO WORC WQAM WREC WSFA WSJS WTAR WTOG

F — Dinner Music

CFBO CFCE CFCH CFCC CFCE CFCE CFCE CFCH CHNS CHRC CJCB CKCH CKNC CKOC CKPC CKPR CRCA CRCC CRCS CRTCT

R — Irene Beasley, Songs

KGO KOA WAPI WBNB WCKY WFAE WFBR WGY WHO WJDX WMC WOC WSAI WSB WSM WSMB WSOC WTAG WWJ

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

R — Horsemense Philosophy; Andrew Kelly

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

B — Lowell Thomas

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

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

C — Myrt and Marge

CKLW KRLL WABC WADC WBT WCAO WCAU WDAE WDBO WDRC WEAN WFBL WGR WHK WJAS

WJSV WKRC WNAC WOKO WQAM WSPD WTOG WVVA

R — Motie Show; Charlie Leland

KSD WBNB WCAE WCNH WDAF WFAE WEI WFBR WGY WHO WJAR WLIT WMAQ WOC WOW WRC WTAG WTAM WTIC WWJ

B — Amos 'n' Andy

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

F — Harvey Robb, Organist

CFBO CFCH CFCC CFCE CFCE CFCE CFCH CHNS CHRC CJCB CKCH CKNC CKOC CKPC CKPR CRCC CRCC CRCS CRTCT

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

C — Just Plain Bill

CFRB CKLW WABC WCAO WCAU WGR WHK WJSV WKRC WNAC R — Billy Bachelor; Ray Knight WFAE WGY WJAR WRC WTAG WTAM WWJ

B — Baby Rose Marie, Songs

KDKA WBAL WBZ WBZA WHAM WJZ WMAL WSYR

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

C — Music in the Air

WABC WCAO WCAU WDRC WEAN WFBL WFEA WGR WHEC WICC WJAS WJSV WLBZ WNAC WOKO WHOIC

R — Lum and Abner

KSD WBNB WCAE WCNH WDAF WFAE WEI WFBR WGY WJAR WLW WRC WTAG

B — Potatis and Perlmutter

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

F — Chamber Music

Stations same as 7:00 Monday

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

C — Boake Carter; Philco

CKLW KNBC KMOX WABC WBBM WBT WCAO WCAU WCCO WGR WHAS WHK WJAS WJSV WNAC R — The Goldbergs

WBNB WCAE WCNH WDAF WFAE WEI WENR WFBR WGY WJAR WLIT WOW WRC WSAI WTAG WTAM WWJ

B — Three Jesters

KDKA KDYL KFI KFYR KGO KGW KHQ KOA KOIL KOMO KPRC KTBS KTHS KWCR KWK KYW WBAL WBAW WBZ WBZA WHAM WIBA WJDX WJZ WKY WMAL WOAI WSMB WSYR

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

C — Happy Bakers

CKLW WABC WADC WCAH WDRC WFBM WGN WGR WHEC WHK WICC WJSV WMS WMBG WMT WNAC WORC WSPD WVVA

R — Soconyland Sketches—Drama

WBNB WCNH WFAE WEI WGY WJAR WTAG WTIC

B — Sealed Power Side Show

KDKA KFYR KOIL KPRC KSO KSTP KTBS KTHS KVOO KWCR KWK WBAL WBZ WBZA WDAY WNBC WFAA WGAR WHAM WIBA WJDX WJR WJZ WKY WLS WMAL WMC WOAI WSB WSM WSMB WSYR WTMJ

F — Blackfoot Trails

CFAC CFBO CFCE CFCH CFCE CFCE CFCH CHNS CHRC CHWC CJCA CJCB CJCI CJGX CJOC CJRM CJRW CKCH CKOC CKNC CKOC CKPC CKPR CKUA CKX CKY CRCA CRCC CRCS CRTCT

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

C — Edwin C. Hill

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

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

C — Bing Crosby

CKLW KDB KERN KFBC KFPY KPRC KGB KHJ KLZ KMBC KMJ KMOX KOIN KOI KSL KVI KWG WABC WADC WCAO WCAU WDC WEAN WFBL WFBM WGN WGR WHAS WHK WJAS WJSV WKRC WNAC WOKO WOWO WSPD

B — Father Finn Choristers

KDKA KOIL KSO KSTP KWCR KWK WBAL WCKY WNBC WGAR WHAM WIBA WJR WJZ WLS WMAL WREN WSYR

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

B — Red Davis—Dramatic Sketch

KDKA WBAL WCKY WBZ WBZA WHAM WJR WJZ WLS WSYR

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

C — Philadelphia Symphony Orchestra

CKLW KDB KERN KFBC KFH KFPY KPRC KGB KHJ KLRA KLZ KMBC KMJ KMOX KOH KOIN KOL KOMA KSL KTRH KTA KVI KWG WABC WADC WBBM WBRW WBT WCAH WCAO WCAU WCCO WDAE WDBJ WDBO WDRC WDSU WEAN WFBL WFBM WGR

**MONDAY—(Continued)**

WGST WHAS WHEC WHK WICC  
WISN WJAS WJSV WKRC WLAC  
WLWB WMBG WMT WNAC WOKO  
WOWO WPG WQAM WREC WRR  
WSPD WTAR WTOG

**R—A. & P. Gypsies**

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

**F—Hour of Gaiety and Romance**

CFAC CFBO CFCE CFCH CFEN  
CFGO CFPC CFJC CFNH CFPL  
CFQC CHAB CHGS CHNS CHRC  
CHWC CHWK CJCA CJCB CJCJ  
CJGX CJOC CJRM CJRW CKCH  
CKCK CKNC CKOC CKOV CKPC  
CKPR CKUA CKX CKY CRCA  
CRCO CRCS CRCT CRCV

**B—Sinclair Minstrels**

KDKA KFYR KOA KOIL KPRC  
KSO KSTP KTBS KTHS KVOO  
KWCR KWK WBAL WBZ WBZA  
WDAY WEBC WFAA WFLA WGAR  
WHAM WIBA WIOD WIS WJAX  
WJDX WJR WTK WKY WLS WLW  
WMC WOAI WWT WREN WRVA  
WSB WSM WSMB WTMJ WWNC

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

**C—Alexander Woodcott**

CFRB CKLW KFH KLRA KLZ  
KMBC KTRH KTSa KVOR WABC  
WACO WADC WBIG WBT WCAH  
WCAO WCAU WCCO WDAE WDEJ  
WDBO WDOO WEAN WFBL WFBM  
WFEA WGST WHAS WIHK WHP  
WICC WISN WJAS WJSV WKBW  
WLWB WLWB WMAS WMBD WMBG  
WNAC WODX WORC WPG WQAM  
WREC WSBT WSPD WTOG

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

**C—Isham Jones; Lulu McConnell**

CFRB CKLW KDB KERN KFBK  
KFPY KPRC KGB KHJ KLZ KMBC  
KMJ KMOX KOIN KOL KRLD  
KSL KVI KWG WABC WADC  
WBMM WBT WCAH WCAO WCAU  
WCCO WDRD WDSU WEAN WFBL  
WFBM WHAS WHK WICC WJAS  
WJSV WKBW WKRC WLAC WNAC  
WOKO WOVU WREC WSPD WTAR

**R—Del Monte Ship of Joy**

KDYL KOA KPRC KSD KSTP  
KTBS KVOO WBEN WCAE WCSH  
WEAF WEBC WEEL WFAA WFBR  
WFLA WGY WHO WTOD WIS  
WJAR WJAX WKBP WKY WLIT  
WMAQ WOAI WOC WOW WRC  
WRVA WSAI WTAG WTAM WTMJ  
WWJ WWNC

**B—Jack Frost's Melody Moments**

KDKA WENL WENR WGAR WHAM  
WJR WJZ WLW

**F—Roundup Rangers**

CFBO CFCH CFEN CFEO CFKY  
CFJC CFNB CFPL CFQC CHAB  
CHGS CHNC CHNS CHRC CHWC  
CHWK CJCA CJCB CJGX CJOC  
CJRM CJRW CKCH CKCK CKNC  
CKOC CKOV CKPC CKPR CKUA  
CKK CKY CUCM CRCO CRCS  
CRCT CRCV

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

**C—Wayne King and Orchestra**

CKLW KALE KDB KERN KPRC  
KGB KHJ KLZ KMBC KMOX  
KOIN KOL KSL KWG WAAB WABC  
WADC WBMM WCAO WCAU WCCO  
WDRD WEAN WFBL WFBM WGR

WHAS WHK WJAS WJSV WKRC  
WOKO WOVU WSPD

**R—Contented Program**

CFPO CRCT KDYL KFI KFVR  
KGO KGW KHQ KOA KOMO KPRC  
KSTP WSHL WEAF WEBC WEEI  
WBR WJAR WLIT WMC WOAI  
WRC WSR WSM WTAG

**B—Richfield Country Club**

KDKA WBAL WBZ WBZA WHAM  
WJZ WMAL WSYR

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

**C—Columbia News Service**

CKAC CKLW KLRA KRLD KTRH  
KTSa KVOR WAAB WABC WACO  
WBIG WBT WCAH WCAO WCAU  
WDAE WDBJ WDBO WDOO WDRD  
WEAN WFBL WFEA WGR WGST  
WHAS WHEC WHL WISN WJAS  
WJSV WKBW WLAC WLWB WLZ  
WMAS WMT WODX WOKO WORC  
WQAM WREC WJSJ WSPD WTOG

**R—Kay-Seven, Drama**

CRCT KSD WBEN WCAE WCSH  
WDAF WEAF WEEL WFBR WGY  
WHO WJAR WLIT WLW WMAQ  
WOC WOW WRC WTAG WTAM  
WTIC WWJ

**B—Henri Deering, Concert Pianist**

KFYR KOIL KPRC KSO KSTP  
KTBS KVOO KWCR WBAL WBZ  
WBZA WCKY WEBC WFAA WHAM  
WIBA WJDX WJZ WKY WMAL  
WOAI WREN WSB WSM WSMB  
WSYR

**F—Luigi Romanelli's Orchestra**

CFBO CFCH CFEN CFEO CFJC  
CFNB CFPL CFQC CHAB CHNC  
CHNS CHRC CHWC CHWK CJCA  
CJGX CJOC CJRM CJRW CKCH  
CKCK CKNC CKOC CKOV CKPC  
CKPR CKUA CKK CKY CRCM  
CRCO CRCS CRCT CRCV

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

**C—Myrt and Marge**

KDB KERN KFBK KFPY KPRC  
KGB KHJ KLRA KLZ KMBC KMJ  
KMOX KOIN KOL KOMA KSL  
KVI KWG WBMM WBRD WCCO  
WDSU WFBM WGST WHAS WLAC  
WODX WREC

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

**C—Evan Evans, Baritone**

CKAC CKLW KFH KLRA KLZ  
KMBC KTRH KTSa KVOR WAAB  
WABC WACO WADC WBIG WBT  
WCAH WCAO WCCO WDAE WDBJ  
WDBO WDOO WDRD WEAN WFBL  
WGST WHEC WHP WHW WICC  
WTP WISN WJAS WJSV WKBW  
WKBW WLAC WLWB WLZ WMAS  
WMBD WMT WODX WOKO WORC  
WPG WQAM WREC WSBT WJSJ  
WSPD WTOG

**B—Amos 'n' Andy**

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

**F—Musical Cavalcade**

Stations same as 10:30 Monday

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

**C—Boswell Sisters**

CFRB CKLW KFAB KFH KLRA  
KLZ KMBC KTRH KTSa KVOR  
WAAB WABC WACO WADC WBT  
WCAH WCAO WCCO WDAE WDBJ  
WDBO WDOO WDRD WEAN WFBM

WFEA WGST WHP WIBW WIP  
WISN WJAS WJSV WKBW WKBW  
WLAC WLWB WLZ WMAS WMBD  
WMT WODX WORC WPG WQAM  
WREC WSBT WJSJ WSPD WTOG

**R—Lum and Abner**

KFYR KSD WDAF WENR WHO  
WIBA WKBF WOC WOW WTAM  
WTMJ

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

**C—Glen Gray and Orchestra**

CFRB CKLW KFH KLRA KLZ  
KMBC KOMA KTRH KTSa KVOR  
WABC WADC WBRD WCAO WCAU  
WDBJ WDRD WDSU WEAN WFBL  
WFBM WGST WHAS WHK WHP  
WIBW WICC WISN WJSV WKBW  
WLAC WLWB WMBD WMBG WMT  
WNAC WOKO WORC WPG WQAM  
WREC WSBT WJSJ WTAR WTOG

**TUESDAY**

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

**C—Buck Rogers, See Monday**

**R—Waldorf Astoria, See Monday**

**B—Henry King and Orchestra**

KOIL KSO KWCR WBAL WCKY  
WENR WHAM WJR WJZ WMAL  
WREN

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

**C—Bohdy Benson, See Monday**

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

**C—Betty Barthell, Songs**

CFRB CKLW KLRA KOMA WAAB  
WABC WADC WBIG WBRD WCAO  
WDBJ WDRD WDSU WFBM WFEA  
WGST WHEC WHK WHP WJSV  
WKBW WLWB WMBG WOKO WORC  
WQAM WREC WFAA WJSJ WTAR  
WTOG

**R—Mid-Week Hymn Sing**

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

**F—Dinner Hour, See Monday**

**B—Mary Small, Juvenile Singer**

KSO KWCR WBAL WCKY WENR  
WHAM WJZ WREN WSYR

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

**C—Little Italy**

WAAB WABC WCAO WCAU WDRD  
WEAN WHEC WHP WKBW WOKO

**R—Cherio Musical Mosaics**

KDYL KOA KPO KSD WCKY  
WEAF WEEL WFBR WFLA WGY  
WHO WTOD WIS WJAR WJAX  
WJDX WMAQ WOC WOW WRVA  
WSAI WSM WSOC WTAG WWJ  
WWNC

**B—Lowell Thomas, See Monday**

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

**C—Myrt and Marge, See Monday**

**B—Amos 'n' Andy, See Monday**

**F—Rex Battle's Orchestra**

Stations same as 7:00 Monday

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

**C—Just Plain Bill, See Monday**

**R—Billy Archer, See Monday**

**B—Radio in Education**

KDKA KECA KEX KFSD KFYR  
KGA KGHl KGIR KJR KOA KOIL  
KPRC KTRH KTBS KTHS KVOO  
KWCR KWK KYA WAPI WBAP  
WBZ WBZA WCKY WFLA WHAM  
WIBA WIS WJDX WJZ WMAL  
WOAI WPTF WREN WSMB WWNC

## TUESDAY—(Continued)

**E-7:30 p.m., C-8:30, M-5:30, P-4:30**  
**C**—Jack Denny's Orchestra  
WABC WCAO WDRC WFBL WGR  
WJAS WMAS WOKO WORC WWSA  
**R**—Lum and Abner See Monday

**E-7:45 p.m., C-8:45, M-5:45, P-4:45**  
**C**—Boake Carter. See Monday  
**R**—Goldbergs, See Monday  
**B**—Don Carney's Dog Chats  
KDKA WBZ WBZA WCKY WGAR  
WHAM WJR WJZ WMAL WMAQ  
WSYR

**E-8:00 p.m., C-7:00, M-6:00, P-5:00**  
**R**—Elmer Everett Yess; Comedy  
CKLW KFAB KFH KMBC KMOX  
KOMA KSCJ KTRH KTSa WAAB  
WABC WADC WBBM WBIG WBRC  
WBT WCAH WCAO WCAU WCCO  
WDAE WDBO WDAO WDRC WDSU  
WEAN WFBL WFBM WGR WJCC  
WHAS WHCZ WHK WHP WIBC  
WJAS WJSV WKBW WKRC WLAC  
WMAS WMBG WMT WOKO WROC  
WOWO WQAM WREC WRR WSFA  
WSPD WTAZ WWSA

**R**—Blackstone; Sanderson-Crumit  
WBN WCAE WJSH WFAF WEEI  
WFI WGY WJAR WRC WTAG  
WTAM WWJ

**B**—Ero Crime Clues  
KDKA KWK WBAL WBZ WBZA  
WGR WHAM WJR WJZ WLW  
WMAL WMAQ WREN

**F**—Chas. Dornberger's Orchestra  
Stations same as 7:00 Monday

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

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
**C**—Voice of Experience  
CKLW KMBC KMOX WABC WBBM  
WBT WCAO WCAU WDCR WEAN  
WGR WHAS WHK WJAS WJSV  
WKRC WNAC

**R**—Wayne King and Orchestra  
KPRC KSD KSTP WBN WCAE  
WCSH WDAF WFAF WEEI WFAA  
WFI WGY WHO WJAR WKBF  
WKY WMAQ WMC WOAI WOC  
WOW WRC WSAI WBS WSM WSMB  
WTAG WTAM WTMJ WWJ

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

**F**—Romantic Pictures  
Stations same as 7:00 Monday

**E-8:45 p.m., C-7:45, M-6:45, P-5:45**  
**C**—Modern Male Chorus  
CFRB CKLW KFH KLRA KLZ  
KMOX KOMA KSL KTRH KTSa  
KVOR WABC WACO WADC WBIG  
WBRC WCAO WCAU WCCO WDBJ  
WDRC WDSU WEAN WFBL WFBM  
WFEA WGR WGST WHAS WHCZ  
WHK WHP WIBW WICC WISN  
WJAS WJSV WLAC WLWB WMBG  
WMT WNAC WOKO WORC WPG  
WQAM WREC WSBT WSJS WTAQ  
WTAR WTOC

**B**—Smith Bros.—Trade and Mark  
KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WGAR WHAM

WJR WJZ WLS WLW WMAL WREN  
WSYR

**E-9:00 p.m., C-8:00, M-7:00, P-6:00**  
**R**—Ben Bernie and Orchestra  
KFYR KOA KPRC KSD KSTP  
WBAP WBN WCAE WCSH WDAY  
WEAF WEEI WFBM WFI WGY  
WHO WJAR WKY WLW WMAQ  
WMC WOAI WOC WOW WRC  
WVRA WSB WSM WSMB WTAG  
WTAM WTMJ WWJ

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

**C**—Phila. Symphony, See Monday

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**C**—Nino Martini, Tenor  
CFRB CKLW KFH KLRA KLZ  
KMBC KMOX KOMA KRLD KSL  
KTRH KTSa KVOR WABC WACO  
WADC WBIG WBRC WCAO WCAU  
WCCO WDBJ WDRC WDSU WEAN  
WFBL WFBM WFEA WGN WGST  
WHAS WHCZ WHK WHP WIBW  
WICC WJAS WJSV WKBW WLAC  
WLWB WMBD WMBG WMT WNAC  
WOKO WORC WPG WQAM WREC  
WSJS WTAZ WTOC

**R**—Texaco Fire Chief Program  
KDYL KFI KFSI KFYR KHGL  
KHQ KGO KGW KHQ KOA KOMO  
KPRC KSD KSTP KTAZ KTBS  
KVOO WBAP WBN WCAE WCSH  
WDAF WDAY WEAF WIBC WEEI  
WFBM WFI WFLA WGY WHO WIBA  
WIOD WIS WJAR WJAX WJDX  
WKY WLW WMAQ WMC WOAI  
WOC WOW WPTF WRC WVRA  
WSB WSM WSMB WTAG WTAM  
WTMJ WWJ WUNC

**E-10:00 p.m., C-9:00, M-8:00, P-7:00**  
**C**—Legend of America  
CKLW KFH KLRA KLZ KMBC  
KMOX KOMA KTRH KTSa KVOR  
WAAB WABC WACO WADC WBIG  
WBRC WCAO WCAU WCCO WDBJ  
WDRC WDSU WEAN WFBL WFEA  
WGST WHAS WHCZ WHP WIBW  
WICC WJAS WJSV WKBW WLAC  
WLWB WMBD WMBG WMT WOKO  
WORC WPG WQAM WREC WJSJ  
WTOC WWVA

**R**—Lives at Stake—Drama  
KDYL KFI KGO KGW KHQ KOA  
KOMO KSD KSTP KTAZ KTBS  
KVOO WBAP WBN WCAE WCSH  
WDAF WEAF WEEI WFBM WFI  
WGY WHO WJAR WJDX WKBF  
WKY WLW WMAQ WMC WOAI  
WOC WOW WRC WVRA WSB WSM  
WSMB WTAG WTAM WWJ

**B**—Ortiz Tirado, Mexican Tenor  
CFRB CRCT KDKA KSO KSTP  
KWCR KWK WBAL WBZ WBZA  
WCKY WDAY WIBC WENR WFLA  
WGAR WHAM WIBA WIOD WIS  
WJAX WJR WJZ WMAL WREN  
WSYR WTMJ WUNC

**E-10:30 p.m., C-9:30, M-8:30, P-7:30**  
**R**—Madame Sylvia—Beauty Talk  
KDYL KFI KGO KGW KHQ KOA  
KOMO KSD KSTP WBN WFAE  
WIBC WEEI WGY WHO WIBA  
WMAQ WOC WRC WTAG WWJ

**C**—News Service, See Monday  
**F**—Maurice Meete's Orchestra  
Stations same as 10:30 Monday

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

**E-11:00 p.m., C-10:00, M-9:00, P-8:00**  
**B**—Amos 'n' Andy, See Monday  
**C**—Howard Barlow's Symphony  
CKLW KFH KLRA KLZ KMBC  
KTRH KTSa KVOR WAAB WABC  
WACO WADC WBIG WBT WCAH  
WCAO WCCO WDAE WDBJ WDBO  
WDOD WDRC WEAN WFEA WGST  
WHAS WHCZ WHP WIBW WICC  
WIP WISN WJAS WJSV WKBW  
WKBW WLAC WLWB WLWB WMAS  
WMBD WMBG WMT WODX WOKO  
WORC WPG WQAM WSJS WSPD  
WTOC WWVA

**E-11:15 p.m., C-10:15, M-9:15, P-8:15**  
**C**—Elmer Everett Yess; Comedy  
KALE KDB KERN KPRC KGB  
KHJ KLZ KMJ KOIN KOL KSL  
KWG

**R**—Lum and Abner, See Monday

**E-11:30 p.m., C-10:30, M-9:30, P-8:30**  
**C**—Isham Jones and Orchestra  
CFRB CKLW KFH KLRA KLZ  
KMBC KOMA KSL KTRH KTSa  
WABC WADC WBRC WCAO WDBJ  
WDRC WDSU WEAN WFBL WFBM  
WGST WHK WHP WIBW WISN  
WJSV WKBW WLAC WLWB WMBD  
WMBG WMT WNAC WOKO WORC  
WQAM WREC WSBT WSJS WTAZ  
WTOC WWVA

**B**—Paul Whiteman and Orchestra  
CFCF KDYL KFYR KOIL KPO KSO  
KSTP KWCR KWK WAPI WBAL  
WBZ WBZA WCKY WDAY WIBC  
WENR WFLA WHAM WIBA WIOD  
WIS WJDX WJZ WMAL WMC  
WREN WVRA WSB WSM WSMB  
WSYR WUNC

**E-11:45 p.m., C-10:45, M-9:45, P-8:45**  
**C**—Voice of Experience  
KDB KERN KPBK KFPY KPRC  
KGB KHJ KLZ KMJ KOIN KOL  
KSL KVI KWG

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

## WEDNESDAY

**E-6:00 p.m., C-5:00, M-4:00, P-3:00**  
**C**—Buck Rogers, See Monday  
**B**—Ernie Holst and Orchestra  
KOIL KSO KWCR WBAL WBZ WBZA  
WCKY WJR WJZ WREN

**R**—Waldorf Astoria, See Monday

**E-6:15 p.m., C-5:15, M-4:15, P-3:15**  
**C**—Bobby Benson, See Monday

**E-8:30 p.m., C-5:30, M-4:30, P-3:30**  
**C**—Vera Van, See Monday  
**R**—Back of News  
KFYR WFAF WFBM WGY WIBA  
WIS WJAR WJDX WRC WSAI  
WSB WSM WWJ WUNC

**B**—Irene Beasley, Contralto  
KGO KOA KPRC KSO KTBS KVOO  
KWCR WBAL WBAP WCKY WENR  
WGAR WJZ WOI WREN

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

**E-7:00 p.m., C-6:00, M-5:00, P-4:00**  
**C**—Myrt and Marge, See Monday  
**R**—Molle Show, See Monday  
**B**—Amos 'n' Andy, See Monday  
**F**—Organ Recital, See Monday

### WEDNESDAY—(Cont'd)

**E-7:15 p.m., C-6:15, M-5:15, P-4:15**  
**C** — Just Plain Bill, See Monday  
**R** — Billy Bachelor, See Monday  
**B** — John Herrick, Baritone  
KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WCKY WENR  
WHAM WJZ WMAL WYSR

**E-7:30 p.m., C-6:30, M-5:30, P-4:30**  
**C** — Music in Air, See Monday  
**R** — Lum and Abner, See Monday  
**B** — Potash and Perlmutter, See Mon.  
**F** — Maritime Presentations  
CFBO CFCE CFCH CFCO CFCY  
CFNB CFPL CHGS CHNS CJCB  
CKCH CKNC CKOC CKPC CKPR  
CRCO CRCT

**E-7:45 p.m., C-6:45, M-5:45, P-4:45**  
**C** — Boake Carter, See Monday  
**R** — Goldbergs, See Monday  
**B** — Irene Rich for Welch  
KDKA WBAL WBZ WBZA WCKY  
WJZ WMAL WMAQ WMC WSB  
WSM WSMB WYSR

**E-8:00 p.m., C-7:00, M-6:00, P-5:00**  
**C** — Happy Bakers, See Monday  
**R** — George Olsen; Bert Lahr  
CFCE CRCT KSD WBEN WCAE  
WCKY WCSH WDAF WEAF WEEL  
WFBR WGY WHO WJAR WLIT  
WLS WOC WOW WRC WSAI WTAG  
WTAM WTIC WWJ  
**B** — Eno Crime, See Tuesday  
**F** — Rhapsodies in Rhythm  
Stations same as 10:30 Monday

**E-8:15 p.m., C-7:15, M-6:15, P-5:15**  
**C** — Edwin C. Hill, See Monday  
**F** — Gamboliers, Harmony Duo  
Stations same as 10:30 Monday

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
**C** — Albert Spalding; Conrad Thibault  
CFRB CKAC CLW KDB KERN  
KFBC KFPY KFRC KGB KHJ  
KLRA KLZ KMBC KMJ KMOX  
KOLN KOL KOMA KSL KTAT  
KTRH KTSa KVI KWG WABC  
WBRC WCAO WCAU WCCO WDDO  
WDRG WDSU WEAN WFBL WFBM  
WGN WGR WGST WHAS WHK  
WJAS WJSV WKRC WLAC WMT  
WNAO WOKO WORC WOWO WREC  
WRR

**R** — Abe Lyman; Frank Munn  
WBEN WBSH WDAF WEAF WFBR  
WGY WHO WJAR WLIT WMAQ  
WOC WOW WRC WSAI WTAG  
WTAM WWJ

**B** — Dangerous Paradise, Drama  
CFCE KDKA KOIL KSO KWCR  
KWK WBAL WBZ WBZA WGAR  
WHAM WJR WJZ WLS WMAL  
WREN WYSR

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

**E-9:00 p.m., C-8:00, M-7:00, P-6:00**  
**R** — Ipana Troubadours  
KDYL KFI KFO KGW KHQ KOA  
KOMO KPRC KSD KSTP KTBS  
KTHS KVoo WAPI WBAP WBEN  
WCAE WCSH WDAF WEAF WFAA  
WFBR WGY WHO WIOD WIS  
WJAR WJAX WKY WLIT WMAQ  
WMC WOAL WOC WOW WRC  
WRVA WSAI WSB WSM WSMB  
WTAG WTAM WTMJ WWJ  
**B** — Warden Lawes; Sing Sing Drama  
KDEA KOIL KSO KWCR KWK

WBAL WBZ WBZA WCKY WGAR  
WHAM WJR WJZ WLS WMAL  
WREN WYSR

**C** — Philadelphia Symphony, See Mon.  
**F** — One Hour With You  
Stations same as 9:30 Monday

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

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**C** — Guy Lombardo—Burns and Allen  
CKLW KDB KERN KFBC KFPY  
KFRC KGB KHJ KLZ KMBC KMJ  
KMOX KOIN KOL KOMA KRLD  
KSL KTRH KTSa KVI KWG WABC  
WADC WBT WCAO WCAU WCCO  
WDRG WEAN WFBL WFBM WGN  
WHK WJAS WJSV WKBW WKRC  
WNAO WOKO WORC WOWO WSPD  
**R** — Leo Reisman's Orchestra  
KSD KSTP WBEN WCAE WCSH  
WDAF WDAF WFBR WGY WJAR  
WLIT WMAQ WOW WRC WSAI  
WTAG WTAM WTMJ WWJ  
**B** — John McCormack, Tenor  
KDKA KDYL KFI KGO KGW KHQ  
KOA KOIL KOMO KSO KWCR  
KWK WBAL WBZ WBZA WCKY  
WENR WGAR WHAM WJR WJZ  
WMAL WREN WYSR

**E-10:00 p.m., C-9:00, M-8:00, P-7:00**  
**C** — Old Gold—Fred Waring's Orchestra  
CKLW KDB KERN KFBC KFRC  
KFPY KFRC KGB KHJ KLRA KLZ  
KMBC KMJ KMOX KOH KOIN  
KOL KOMA KRLD KSCJ KSL  
KTRH KTSa KVI KVOR KWG  
WABC WACO WADC WBIG WBRG  
WBT WCAH WCAO WCAU WCCO  
WDAE WDBJ WDDO WDDO WDRG  
WDSU WEAN WFBL WFBM WFEA  
WGN WGST WHAS WHGC WHK  
WHI WIBW WICG WISN WJAS  
WJSV WKBH WKBW WKRC WLAC  
WLBV WLZ WMAS WMBD WMBG  
WMT WNAO WNAK WOKO WORC  
WOWO WPG WQAM WREC WSPD  
WTAR WTOG

**R** — Corn Cob Pipe Club  
KDYL KFI KFYR KGHL KGIR  
KGO KGW KHQ KOA KOMO KSD  
KSTP WBEN WCAE WCSH WDAF  
WDAE WEAF WEGC WEEL WENR  
WFBR WGY WHO WIBA WJAR  
WLIT WLW WOC WOW WRC  
WRVA WTAG WTAM WTIC WTMJ  
WWJ

**D** — Pedro Vria's Orchestra  
CFCE CRCT KDKA KOIL KSO  
KWCR KWK WBAL WBZ WBZA  
WCKY WGAR WHAM WJZ WMAL  
WREN WYSR

**E-10:30 p.m., C-9:30, M-8:30, P-7:30**  
**R** — National Radio Forum  
KFYR KPRC KSD KSTP KTHS  
KVoo WBEN WCAE WCSH WDAY  
WEAF WEEL WFAA WFBM WFLA  
WGY WHO WIBA WIS WJAR WJAX  
WJDX WKY WMAQ WOAI WOC  
WOW WRC WRVA WSAI WSB WSM  
WSMB WTAG WTAM WTIC WWJ  
WWNC

**B** — Ruth Lyon, Soprano  
CFCE KDKA KOIL KSO KWCR  
WBAL WBZ WBZA WCKY WENR  
WGAR WJR WJZ WMAL WREN  
WYSR

**C** — News Service, See Monday  
**F** — Joe DeCourcy's Orchestra  
Stations same as 10:30 Monday

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

**E-11:00 p.m., C-10:00, M-9:00, P-8:00**  
**B** — Amos 'n' Andy, See Monday  
**C** — Mark Warnow Presents  
CKLW KFH KLRA KLZ KMBC  
KSL KTRH KTSa KVOR WAAB  
WABC WACO WADC WBIG WBT  
WCAH WCAO WCCO WDAE WDBJ  
WDBO WDDO WDRG WEAN WFBL  
WFEA WGST WHGC WHK WIP  
WIBW WICG WIP WISN WJAS  
WJSV WKBW WLAC WLWB WLZ  
WMAS WMBD WMBG WMT WODX  
WOKO WORC WPG WQAM WJSJ  
WSPD WTOG

**E-11:15 p.m., C-10:15, M-9:15, P-8:15**  
**R** — Lum and Abner, See Monday  
**B** — Poet Prince, Songs  
KDYL KFI KFYR KGO KGW KHQ  
KOA KOIL KOMO KSO KSTP KTBS  
KTHS KWCR KWK WAPI WBAL  
WCKY WDAY WEAF WFAA WIBA  
WJDX WJR WJZ WKY WMAL  
WMAQ WMC WREN WSB WYSR

**E-11:30 p.m., C-10:30, M-9:30, P-8:30**  
**C** — Ozzie Nelson and Orchestra  
KLRA WABC WBRC WDBJ WDRG  
WDSU WEAN WGST WICC WLAC  
WMBG WNAO WNOB WQAM WREC  
WSJZ WTAR WTOG

### THURSDAY

**E** — 8:00 p.m., C-5:00, M-4:00, P-3:00  
**C** — Buck Rogers, See Monday  
**R** — Waldorf Astoria, See Monday  
**B** — Dick Messner's Orchestra  
KOIL KSO KWCR KYW WBAL  
WBZ WBZA WCKY WENR WHAM  
WJR WJZ WMAL WREN WYSR

**E-6:15 p.m., C-5:15, M-4:15, P-3:15**  
**C** — Bobby Benson, See Monday

**E-8:30 p.m., C-5:30, M-4:30, P-3:30**  
**R** — John B. Kennedy  
KDYL KFYR KOA KPO KFRC KSD  
KTBS KTHS KVoo WAPI WDAY  
WEAF WFBR WFI WGY WHO WIBA  
WIS WJAX WJDX WMAQ WMC  
WOR WRC WSAI WSB WSMB WTAG  
WWJ WWNC  
**B** — Old Songs of the Church  
KSO KWCR WBAL WCKY WENR  
WHAM WJZ WREN WYSR

**E-6:45 p.m., C-5:45, M-4:45, P-3:45**  
**R** — Sizzlers Trio  
KFYR KOA KPRC KSD KSTP  
KTBS KVoo WAPI WBEN WCKY  
WDAY WEAF WEGC WEEL WFAA  
WFBR WFI WGY WHO WIBA WJAR  
WJDX WKY WMC WOAI WOC WOW  
WSAI WSB WSM WSMB WTAG  
WWJ

**B** — Lowell Thomas, See Monday  
**C** — Little Italy, See Tuesday

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

**E-7:15 p.m., C-6:15, M-5:15, P-4:15**  
**B** — Three Musketeers, Drama  
CRCT WBAL WBZ WBZA WHAM  
WJZ WMAL WYSR

## THURSDAY—(Cont'd)

**C** — Just Plain Bill, See Monday  
**R** — Billy Bachelor, See Monday

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

**R** — Lum and Abner, See Monday  
**C** — Jack Denny, See Tuesday  
**F** — Book Review, Prof. Macdonald  
Stations same as 7:00 Monday

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

**B** — Concert Favorites  
KDKA KDYL KFYR KOA KPO  
KPRC KSO KSTP KTBS KTIS KVOO  
KWCR WBZ WBZA WCKY WERC  
WFAA WHAM WIBA WIOD WIS  
WJAX WJDX WJZ WKY WMAL  
WMC WOAI WREN WSB WSMB  
WTAM WWCN

**C** — Boake Carter, See Monday

**R** — Goldbergs, See Monday

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

**C** — Elmer E. Yess, See Tuesday  
**R** — Rudy Vallee and Orchestra  
CFPC CRCT KDYL KFI KFYR KGO  
KGW KHQ KOA KOMO KPRC KSD  
KSTP KTAR KTBS WAPI WBAP  
WBEN WCAE WCHS WDAF WDAY  
WEAF WEEB WEEI WFBR WFI  
WFLA WGY WHO WIOD WJAR  
WJAX WJDX WKY WLW WMAQ  
WMC WOAI WOC WOW WPTF WRC  
WRVA WSB WSM WSMB WTAG  
WTAM WTMJ WWJ

**F** — Ritz Carlton Concert

Stations same as 7:00 Monday

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

**C** — Singin' Sam, See Tuesday

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

**C** — Hall Johnson Singers  
CFRB CKLW KFLR KLRA KLZ  
KMBC KMOX KOMA KSL KTRH  
KTSB KFOR WABC WACO WADC  
WBBM WBIG WBRB WCAO WCCO  
WDBJ WDRB WDSU WEAN WFBL  
WFBM WFEA WGR WGST WHAS  
WHCC WHK WHP WIBW WICC  
WISN WJAS WISV WLAC WLWB  
WLWB WMBG WMT WNAC WOKO  
WORC WPG WQAM WREC WSJT  
WSFA WSJS WTAQ WTAR WTOC

**B** — Horlick's, See Tuesday

**F** — Musical Etchings

Stations same as 7:00 Monday

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

**B** — Revelers Quartet  
KDKA KOIL KWCR WBAL WBZ  
WBZA WCKY WGAR WHAM WJZ  
WLS WMAL WREN WSYR

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

**R** — Maxwell House Showboat  
KDYL KFI KFSB KGO KGW KHQ  
KOA KOMO KPRC KSD KSTP KTAR  
KTBS WAPI WBAP WBEN WCAE  
WCKY WCHS WDAF WEAF WEEI  
WFBR WFI WFLA WGY WHO WIOD  
WIS WJAR WJAX WJDX WKY  
WMAQ WMC WOAI WOC WOW  
WRC WRVA WSAI WSB WSM WSMB  
WTAG WTAM WTMJ WWJ WWCN  
**B** — Death Valley Days—Drama  
KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WGAR WHAM  
WJR WJZ WLS WLW WMAL WREN  
WSYR

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

**C** — Philadelphia Symphony, See Mon.

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

**C** — Columbia Dramatic Guild  
CFRB CKLW KFLR KLZ KMBC  
KMOX KOMA KRLD KSL KTRH  
KTSB KFOR WABC WACO WADC  
WBIG WBRB WCAO WCAU WCCO  
WDBJ WDRB WDSU WEAN WFBL  
WFBM WFEA WGST WHAS WHCC  
WHK WHP WIBW WICC WJAS  
WJSV WKWB WLAC WLWB WLWB  
WMBD WMBG WMT WNAC WOKO  
WORC WQAM WREC WSBT WSJS  
WTAR WTOC

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

**F** — Radio Theatre Guild

Stations same as 9:30 Monday

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

**C** — Willard Robison's Orchestra  
CFRB CKLW KLRA KLZ KMBC  
KOMA KSL KTRH KTSB KFOR  
WAAB WABC WACO WADC WCCO  
WBBJ WBRB WCAO WCAU WCCO WDBJ  
WDRB WDSU WEAN WFBL WFEA  
WGST WHAS WHCC WHP WIBW  
WICC WJAS WJSV WKWB WLAC  
WLWB WLWB WMBD WMT WOKO  
WORC WPG WQAM WREC WSBT  
WSJS WTAR WTOC

**R** — Paul Whiteman and Orchestra  
KDYL KFI KFYR KGO KGW KHQ  
KOA KOMO KPRC KSD KSTP KTBS  
KTBS KVOO WBAP WBEN WCAE  
WCHS WDAF WDAY WEAF WEEB  
WEEI WFBR WFLA WGY WHO  
WIBA WIOD WIS WJAR WJAX  
WJDX WKY WLW WMAQ WMC  
WOAI WOC WOW WRC WRVA WSB  
WSM WSMB WTAG WTAM WTMJ  
WWJ WWCN

**B** — Hands Across the Border  
CFAC CFBO CFCE CFCH CFEN  
CFCO CFCE CFJC CFNB CFPL  
CFQC CHAB CHGS CHNS CHRC  
CHVC CHWK CJCA CJCB CJJC  
CJGX CJOC CJRM CJRW CKCH  
CKCK CKNC CKOC CKOV CKPC  
CKPR CKUA CKX CKY CROC CRCS  
CRCT CRCV CFCE KDKA KOIL KSO  
KWCR WBAL WBZ WBZA WCKY  
WGAR WHAM WJR WJZ WMAQ  
WREN WSYR

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

**B** — Archer Gibson, Organist  
KDKA KSO KWCR KYW WBAL WBZ  
WBZA WCKY WGAR WHAM WJZ  
WMAL WREN

**C** — News Service, See Monday

**F** — Chas. Dornberger's Orchestra

Stations same as 10:30 Monday

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

**C** — Myrt and Marge, See Monday

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

**C** — Gladys Rice, Soprano  
CKLW KFLR KLRA KLZ KMBC KSL  
KTRH KTSB WAAB WABC WACO  
WADC WBIG WBRB WCAO WCCO  
WDBJ WDRB WDSU WEAN WFBL  
WFBM WGN WGST WHAS WHCC  
WHP WIBW WIP WISN WJAS WKWB  
WLAC WLWB WLWB WMBG WMBG  
WMT WOKO WORC WPG WQAM  
WREC WSBT WSJS WTAR WTOC

**B** — Amos 'n' Andy, See Monday

**R** — Viola Philo, Soprano

WCAE WCHS WEF WFI WFLA  
WGY WIOD WIS WOW WRVA  
WTAM WWCN

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

**C** — Phil Regan, Tenor  
CFRB CKLW KLRA WAAB WABC  
WADC WBIG WBRB WBT WCAO  
WCCO WDAE WDBJ WDBO WDOD  
WEDN WEAN WFBM WFEA WGST  
WHP WTP WJAS WJSV WKBN  
WKWB WLAC WLWB WLWB WMAS  
WMBG WMBD WMT WODX WORC  
WPG WQAM WREC WSBT WSJS  
WJZ WTOC

**C** — Elmer E. Yess, See Tuesday

**R** — Lum and Abner, See Monday

**B** — Poet Prince, See Wednesday

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

**C** — Isha M. Jones, See Tuesday  
**R** — Enric Madriguera and Orchestra  
KSD WBEN WCAE WCHS WDAF  
WEAF WEEI WFBR WFI WGY  
WHO WJAR WOC WOW WSAI  
WTAG WTAM

## FRIDAY

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

**C** — H. V. Kaltenborn  
CFRB CKLW KLRA WAAB WABC  
WADC WBIG WBT WCAO WACO  
WDAE WDBJ WDBO WDOD WDRB  
WFEA WGST WHCC WHK WICC  
WJSV WLAC WLWB WLWB WMRG  
WOKO WORC WQAM WREC WSFA  
WSJS WSPD WTOC

**R** — Waldorf Astoria, See Monday

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

**C** — Bobby Benson, See Monday

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

**B** — Three X Sisters  
KDKA KOLL KWCR KWK WBAL  
WBZ WBZA WCKY WENR WHAM  
WJZ WMAL WREN WSYR  
**F** — Dinner Hour, See Monday  
**R** — Irene Beasley, See Monday

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

**C** — George Scherban and Orchestra  
CFRB CKAC CKLW KFLR KLRA  
KLZ KMBC KMOX KSL KTRH  
KFOR WABC WBIG WBT WCAO  
WCCO WDAE WDBJ WDBO WDOD  
WDRB WEAN WFBL WFEA WGR  
WGST WHAS WHK WHP WICG  
WJSV WLAC WLWB WLWB WMC  
WMBG WMT WOKO WORC WQAM  
WREC WSBT WSFA WSJS WSPD  
WTAQ WTOC

**R** — Betty Boop Folies

KOA KPO KSD WBEN WCAE WCKY  
WEAF WEEI WFBR WJAR WJDX  
WMAQ WMC WSB WSM WSMB  
WTAG WWJ

**B** — Lowell Thomas, See Monday

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

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

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

**C** — Just Plain Bill, See Monday  
**R** — Billy Bachelor, See Monday  
**B** — Three Musketeers, See Thursday

**FRIDAY — (Continued)**

**E-7:30 p.m., C-6:30, M-5:30, P-4:30**  
**R — Scott's Circus Day**  
 KSD WBSH WDAF WFAE WEEI WEEI  
 WGY WJAR WKBF WLW WMAQ  
 WOV WRC WTAG WTAM WTIC  
**B — Potash and Permuter, See Mon.**  
**C — Music in Air, See Monday.**

**E-7:45 p.m., C-6:45, M-5:45, P-4:45**  
**C — Boake Carter, See Monday**  
**R — Goldbergs, See Monday**  
**B — Irene Rich, See Wednesday**

**E-8:00 p.m., C-7:00, M-6:00, P-5:00**  
**C — Happy Bakers, See Monday**  
**R — Cities Service Concert**  
 CRCT KDYL KOA KPRC KSD KTBS  
 KTHS KYW WBSH WCAE WBSH  
 WDAF WFAE WEEI WEEI WFAA  
 WFBW WGY WHO WTAR WKY WLIT  
 WQAI WOC WOV WRC WRVA WSAI  
 WTAG WTAM WTIC WTMJ WWJ  
**B — Nestle's with Ethel Shutta**  
 KDKA KWK WBAL WBZ WBSA  
 WCKY WGAR WJR WJZ WLS WMAL  
 WSYR

**F — Allan Clifton's Orchestra**  
 CFCN CFQC CHAB CHWC CJCA  
 CJGX CJOC CJRM CJRW CKCK  
 CKUA CKK CKY

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

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

CKLW KDB KERN KFBK KFPY  
 KPRC KGB KHJ KLZ KMBC KMJ  
 KMOX KOIN KOL KSL KTRH KVI  
 KWG WABC WCAO WCAU WCCO  
 WDRS WDSU WEAN WFBL WFBM  
 WGN WGR WGST WHAS WHK WJAS  
 WJSV WKRC WNAC WOKO WSPD  
**B — Dangerous Paradise, See Wed.**  
**F — Jimmie Namaro, Xylophonist**  
 Stations same as 7:00 Monday

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

**E-9:00 p.m., C-8:00, M-7:00, P-6:00**  
**R — Fred Allen's Revue**

KSD WBEN WBSH WFAE WEEI  
 WFBW WGY WJAR WLIT WLW  
 WMAQ WRC WTAG WTAM WTIC  
 WWJ

**B — Phil Harris and Orchestra**  
 CFCF KDKA KDYL KFI KGHL  
 KGIR KGO KGW KHQ KOA KOIL  
 KOMO KSO KWCR KWK WAPI  
 WBAL WBZ WBSA WBSY WFAA  
 WGAR WJZ WKY WLS WMAL  
 WQAI WREN WSB WSM WSMB  
 WSYR

**C — Philadelphia Symphony, See Mon.**  
**F — Jack Dale, Tenor**  
 Stations same as 9:30 Monday

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

CKLW KDB KERN KFBK KFH  
 KFPY KPRC KGB KHJ KLRA KLZ  
 KMBC KMJ KMOX KOIN KOL  
 KOMA KSL KTRH KTAT KTSB KVI  
 KWG WABC WADC WBRC WBT  
 WCAO WCAU WCCO WDAE WDRS  
 WDSU WEAN WFBL WFBM WGN  
 WGST WHAS WHK WJAS WJSV  
 WKBW WKRC WLAC WNAC WOKO  
 WOVO WREC WRR WSPD WTAR  
 WTOC  
**F — Gentleman Jim**  
 Stations same as 9:30 Monday

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

**R — Pond's Program; Lee Wiley**  
 KSD WBEN WCAE WBSH WDAF  
 WFAE WFBW WGY WHO WJAR  
 WLIT WMAQ WOC WOW WRC WSAI  
 WTAG WTAM WTIC WWJ

**B — Armour Program; Phil Baker**  
 KDKA KDYL KFI KGO KGW KHQ  
 KOA KOIL KOMO KPRC KSO KSTP  
 KTAR KWK WAPI WBAL WBZ  
 WBSA WBSY WREN WFAA WGAR  
 WHAM WIOD WJAX WJR WJZ  
 WKY WMC WQAI WREN WRVA  
 WSB WSM WSMB WTMJ WWNC  
**F — Gems from Lyric Stage**  
 Stations same as 9:30 Monday

**E-10:00 p.m., C-9:00, M-8:00, P-7:00**  
**C — Swift Revue — Olsen and Johnson**

CKLW KDB KERN KFBK KFPY  
 KPRC KGB KHJ KLZ KMBC KMJ  
 KMOX KOIN KOL KOMA KRLD  
 KSCJ KSL KTRH KVI KWG WABC  
 WADC WBBM WBRC WBT WCAO  
 WCAU WCCO WDRS WEAN WFBL  
 WGR WHAS WHK WJAS WJSV  
 WKBW WKRC WNAC WOKO WOVO  
 WREC

**R — First Nighter — Drama**

CRCT KDYL KFI KGO KGW KHQ  
 KOA KOMO KPRC KSD KSTP  
 WAPI WBEN WCAE WBSH WDAF  
 WFAE WEEI WFBW WGY  
 WHO WJAR WKY WLIT WMAQ  
 WQAI WOC WOW WRC WSAI WSB  
 WSM WSMB WTAG WTAM WTIC  
 WTMJ WWJ

**E-10:30 p.m., C-9:30, M-8:30, P-7:30**  
**R — Lum and Abner's Sociable**

KFYR KSD WBEN WCAE WBSH  
 WDAF WDAY WFAE WEEI WENR  
 WFBW WGY WHO WIBA WJAR  
 WKBF WLIT WLW WOC WOW  
 WRC WTAG WTAM WTIC WTMJ

**B — Mario Cozzi, Baritone**

KDKA KFYR KOIL KSO WAPI  
 WBAL WBZ WBSA WCKY WDAY  
 WBSY WFLA WHAM WIBA WIOD  
 WIS WJAX WJR WJZ WREN WSB  
 WSM WSYR WWNC

**C — News Service, See Monday**  
**F — Events of Canadian Interest**  
 Stations same as 10:30 Monday

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

**B — Headline Hunter; Floyd Gibbons**  
 KDKA KFYR KSO WAPI WBAL  
 WBZ WBSA WCKY WDAY WBSY  
 WFLA WHAM WIBA WIOD WIS  
 WJAX WJR WJZ WREN WSB WSM  
 WSYR WWNC

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

CFBO CFCH CFCN CFCC CFCC  
 CFJC CFNB CFPL CFQC CHAB  
 CHGS CHNC CHNS CHRC CHWC  
 CHWK CJCA CJCB CJGX CJOC  
 CJRM CJRW CKCH CKCK CKNC  
 CKOC CKOV CKPC CKPR CKUA  
 CKK CKY CRCM CRCO  
 CRCS CRCT CRCV CKLW KFH  
 KLRA KLZ KMBC KTRH KTSB  
 KVOR WAAB WABC WACO WADC  
 WBIG WBT WCAO WCCO WDAE  
 WDBJ WDSU WDRS WDRS WEAN  
 WFAE WGST WHEC WHK WHP  
 WIBW WICC WIP WISN WJAS  
 WJSV WKBW WLAC WLWB WLWZ  
 WMAS WMBD WMBG WMT WODX  
 WOKO WORB WPG WQAM WREC  
 WWSY WSPD WTOC  
**B — Amos 'n' Andy, See Monday**

**E-11:15 p.m., C-10:15, M-9:15, P-8:15**  
**C — Boswell Sisters, See Monday**

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

**E-12:15 a.m., C-11:15, M-10:15, P-9:15**  
**R — Fred Allen's Revue**

KDYL KFI KFSB KGO KGW KHQ  
 KOA KOMO KTAR WDAF

**SATURDAY**

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

CFRB CKLW KFH KLRA KMBC  
 KOMA KSL KTRH KTSB KVOR  
 WAAB WABC WACO WADC WBBM  
 WBIG WBRB WCAO WCCO WDBJ  
 WDSU WFBL WFAE WGR WGST  
 WHAS WHEC WHK WHP WIBW  
 WICC WIP WISN WJAS WJSV WLAC  
 WLWB WMBG WMBG WMT WOKO  
 WQAM WREC WSBT WSPA WSJS  
 WTAQ WTAR WTOC WWVA  
**R — Waldorf Astoria, See Monday**

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

CKAK CKLW KFAH KFH KLRA  
 KLZ KMBC KRLD KSL KTRH KTSB  
 KVOR WAAB WABC WACO WBIG  
 WBT WCAH WCAO WCCO WDAE  
 WDBJ WDSU WDRS WDRS WEAN  
 WFAE WGR WGST WHEC WHK  
 WHP WIBW WICC WIP WISN  
 WJAS WJSV WLAC WLWB WLWZ  
 WMBG WMT WOKO WORC WQAM  
 WREC WSBT WSPA WSJS WSPD  
 WTAQ WTOC WWVA

**E-6:30 p.m., C-5:30, M-4:30, P-3:30**  
**R — Phil Spitalny and Orchestra**

KDYL KFI KFYR KGO KGW KHQ  
 KOA KOMO KPRC KSD KSTP KTBS  
 KTHS KVOO WCAE WDAY WDAY  
 WFAE WFBW WFLA WHO WJAX  
 WJZ WKBW WMC WQAI WOC  
 WRC WSB WSM WTAG WTAM  
 WWJ WWNC

**B — Mary Small, See Tuesday**  
**F — Dinner Hour, See Monday**

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

CKLW KLRA KLZ KMBC KMOX  
 KRLD KSL KTRH KTSB KVOR  
 WAAB WABC WACO WADC WBIG  
 WBRB WCAO WCAU WCCO WDBJ  
 WDSU WFBL WFBM WFAE WGST  
 WHAS WHEC WHP WIBW WICC  
 WISN WJSV WKBW WLAC WLWB  
 WLWB WMBG WMT WOKO WQAM  
 WREC WSBT WSPA WSJS WTAQ  
 WTAR WTOC WWVA

**B — Flying with Capt. Al Williams**  
 WBAL WBZ WBSA WCKY WGAR  
 WHAM WJR WJZ WSYR

**R — Grandmother's Trunk**

CRCT KDYL KOA KSD WBEN  
 WCAE WBSH WFAE WFBW WFI  
 WGY WHO WIS WJAR WJAX  
 WMAQ WOC WOW WRC WRVA  
 WSAI WSM WTAG WWJ WWNC

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

CKLW KFH KLRA KLZ KMBC  
 KRLD KSL KTRH KTSB KVOR  
 WABC WACO WADC WBBM WBIG  
 WBRB WCAO WCAU WDBJ WDSU  
 WEAN WFBL WFAE WGR WGST  
 WHEC WHK WIBW WICC WISN



**SATURDAY—(Cont'd)**

WJAS WJSV WLAC WLWB WLWB  
WMBG WMT WOKO WQAM WREC  
WSBT WSFA WSJS WTAQ WTAR  
WTOC WWVA

**R — J. C. Nugent, Male Quartet**  
WCSH WEAF WLEI WGY WJAR  
WTAG WTIC

**B — John Herrick, Baritone**  
KDKA KOIL KSO KWCR KWK  
WBAL WKCY WGAR WJZ WKBF  
WMAL WMAQ

**F — Rex Battle**  
Stations same as 7:00 Monday

**E-7:15 p.m., C-6:15, M-5:15, P-4:15**  
**C — Jack Denny's Orchestra**  
WABC WCAU WDRC WFBL WGR  
WHCC WJAS WMA5 WOKO WORC  
WVVA

**B — Three Musketeers, See Thursday**

**E-7:30 p.m., C-6:30, M-5:30, P-4:30**  
**C — Jane Froman; Charles Carille**  
WABC WDRC WEAN WFBL WFEA  
WGR WJSV WLWB WNAC WOKO  
**R — Circus Days, See Friday**  
**B — Trio Romantique**  
KOIL KSO KWCR WBAL WCKY  
WENR WHAM WJR WJZ WMAL  
WREN WSYR

**E-7:45 p.m., C-6:45, M-5:45, P-4:45**  
**B — O'Leary's Irish Minstrels**  
CFCH KOIL KPRC KSO KTBS  
KTBS KWCR WBAL WBAP WCKY  
WENR WHAM WIOD WIS WJR  
WJZ WKY WMAL WMC WOAI  
WREN WRVA WSB WSM WSMB  
WSYR WWSA

**R — Jack and Loretta Clemens**  
KDYL KFI KGO KGW KHQ KOA  
KOMO KSD WHEN WCSH WDAF  
WEAF WEEI WFBW WGY WJAR  
WOW WRC WSAI WTAG WTAM  
WWJ

**E-8:00 p.m., C-7:00, M-6:00, P-5:00**  
**C — Elmer E. Yess, See Tuesday**  
**F — Maurice Meerte's Orchestra**  
Stations same as 7:00 Monday

**E-8:15 p.m., C-7:15, M-6:15, P-5:15**  
**C — Fray and Braggiotti**  
CFRB CKAC CKLW KFH KLRA  
KLZ KMBC KSL KTRH KTSA  
KVOR WABC WACO WADC WBIG  
WBT WCAH WCAO WGAU WCCO  
WDAE WDBJ WDBO WDDO WDRC  
WEAN WFBL WFEA WGR WGST  
WHAS WHEC WHP WIBW WICC  
WISN WJAS WJSV WLAC WLWB  
WJZ WMA5 WMBG WMT WNAC  
WOKO WORC WPG WQAM WREC  
WSBT WSFA WSJS WSPD WTAQ  
WTOC WWVA

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
**R — Antibal's Cubans**  
KDYL KFI KGO KGW KHQ KOA  
KOMO KPRC KSD KTBS KTBS  
KVOO WCSH WDAF WDAY WEAF  
WEEB WFAA WFBW WFLA WGY  
WHO WIBA WIS WJAR WJAX  
WJDX WKY WMAQ WMC WOAI  
WOC WRC WRVA WSAI WSB WSM  
WSMB WTAG WTAM WWJ WWCN  
**B — Sous les Ponts de Paris**  
CFBO CFCH CFEN CFPC CFY  
CFJ CFN CFPL CFQC CHAB  
CHGS CHNC CHNS CHWC CHWK  
CJCA CJCB CJG CJOC CJRM  
CJRW CKCB CKCK CKNC CKOC

CKOV CKPC CKPR CKUA CKK  
CKY CRCM CRCO CRCS CRCT  
CRCV KDKA KOIL KSO KWCR  
KYW WBAL WJZ WBZA WCKY  
WGAR WHAM WRJ WJZ WMAL  
WREN WSYR

**C — George Jesse**  
CFRB CKLW KFH KLRA KLZ  
KMBC KMOX KOMA KRLL KTRH  
KTSA KVOR WAAB WABC WADC  
WBIG WBRB WCAO WCAU WCCO  
WDBJ WDSU WEAN WFBM WFEA  
WGST WHAS WHEC WHK WHP  
WIBW WICC WISN WJAS WJSV  
WKBW WLAC WLWB WLWB WMBD  
WMBG WOKO WPG WQAM WREC  
WSBT WSJS WTAR WTOC WWVA

**E-9:00 p.m., C-8:00, M-7:00, P-6:00**  
**R — Lucky Strike — Jack Pearl**  
KDYL KPFD KFVR KGO KGU KGW  
KHQ KOA KOMO KPRC KSD KSTP  
KTAR KTBS KTHS WAPI WBAP  
WHEN WCAE WCSH WDAF WDAY  
WEAF WEEB WEEI WFBW WFI  
WFLA WGY WIBA WIOD WIS WJAR  
WJAX WJDX WKY WLW WMAQ  
WMC WOAI WOW WRC WRVA WSB  
WSMB WTAG WTAM WTMJ WWJ  
WVNC

**B — Jamboree — Variety Show**  
KDKA KOIL KSO KWCR KWK KYW  
WBAL WCKY WGAR WHAM WJR  
WJZ WMAL WREN WSYR  
**C — Philadelphia Symphony, See Mon.**

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**C — Carburandum Band**  
CKLW KMBC KMOX WAAB WABC  
WBMM WBT WCAO WCAU WCCO  
WHAS WHK WJAS WKBW WKRC  
**R — Leo Reisman; Yacht Club Boys**  
WHEN WCAE WCSH WDAF WEAF  
WEEI WFBW WFI WGY WHO WJAR  
WMAQ WOC WOW WRC WSAI  
WTAG WTAM WWJ

**E-10:00 p.m., C-9:00, M-8:00, P-7:00**  
**R — B. A. Rolfe and Orchestra**  
CRCT KDYL KFI KGO KGW KOA  
KOMO KSD KSTP WBAP WBN  
WCAE WCSH WDAF WEAF WEEI  
WFBW WFI WGY WHO WJAR WJAX  
WLW WMAQ WOAI WOC WOW  
WRC WRVA WSB WSMB WTAG  
WTAM WTMJ WWJ

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

**C — Byrd Expedition**  
CKLW KDB KERN KFBK KFH  
KFYP KFRC KGB KHJ KLRA  
KMBC KMJ KMOX KOIN KOL  
KOMA KRLL KTRH KTSA KVI  
KWG WAAB WABC WACO WADC  
WBMM WBRB WBT WCAO WCAU  
WCOO WDAE WEAN WGST WHAS  
WHEC WHK WHP WIBW WJSV  
WKBW WKRC WLAC WLWB WMBG  
WMT WOKO WORC WQAM WREC

**E-10:30 p.m., C-9:30, M-8:30, P-7:30**  
**C — News Service, See Monday**

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

**F — Billy Bissett's Orchestra**  
CFBO CFCH CFCO CFNB CFPL  
CHNC CHNS CHRC CJCB CKCH  
CKNC CKOC CKPC CKPR CRCM  
CRCO CRCS CRCT

**E-11:00 p.m., C-10:00, M-9:00, P-8:00**  
**C — Isha m Jones and Orchestra**  
CFRB CKLW KLRA KLZ KMBC  
KMOX KOMA KTRH KTSA KVOR  
WAAB WABC WADC WBIG WBRB  
WCAO WCAU WCCO WDBJ WDSU  
WEAN WFBL WFBM WGST WHAS  
WHP WIBW WICC WISN WJAS  
WJSV WKBW WLAC WLWB WLWB  
WMBD WMBG WMT WOKO WPG  
WQAM WRC WREB WSJS WTAR  
WTOC

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

**B — WLS Barn Dance**  
KDKA KOIL KSO KWCR KWK WBZ  
WBZA WGAR WHAM WJR WJZ  
WLS WLW WMAL WREN WSYR

**F — Vancouver Saturday Frolic**  
Stations same as 10:30 Monday

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

**E-11:30 p.m., C-10:30, M-9:30, P-8:30**  
**C — Glen Gray and Orchestra**  
CFRB CKLW KLRA KLZ KMBC  
KOMA KSL KTRH KTSA KVOR  
WABC WADC WBRB WCAO WDBJ  
WDSU WEAN WFBL WFBM WGST  
WHEC WHP WIBW WIP WISN  
WJSV WKBW WLAC WLWB WLWB  
WMBD WMBG WMT WNAC WOKO  
WPG WQAM WREC WSBT WSJS  
WTOC

**E-12:00 p.m., C-11:00, M-10:00, P-9:00**  
**C — Barney Rapp and Orchestra**  
CKAC CKLW KFAB KFH KLZ  
KMBC KMOX KRLL KTRH KTSA  
WABC WCAU WCCO WEAN WFBL  
WHAS WHP WIBW WICC WISN  
WJSV WKBW WLWB WMA5 WMBD  
WMT WNAC WOKO WSBT WSPD  
WTAQ

**B — Reggie Childs and Orchestra**  
KOIL KSO KWCR KWK KYW  
WBAL WBZ WBZA WCKY WGAR  
WHAM WJZ WLW WMAL WREN  
WSYR

**SUNDAY**

**E-11:15 a.m., C-10:15, M-9:15, P-8:15**  
**R — Major Bowes' Capitol Family**  
KDYL KFVR KOA KPRC KSTP  
KTBS KVOO WAPI WCAE WDAF  
WDAY WEAF WEEB WFAA WFBW  
WFLA WGY WHO WIOD WJAR  
WJAX WKY WMAQ WMC WOAI  
WOC WRC WRVA WSAI WSMB  
WTAG WTAM WWCN

**E-11:30 a.m., C-10:30, M-9:30, P-8:30**  
**C — Salt Lake Tabernacle Choir**  
CKLW KLRA KLZ KMBC KOMA  
KSL KTRH KTSA KVOR WABC  
WACO WADC WBRB WCAO  
WCCO WDBJ WDBR WDSU WEAN  
WFBL WFEA WGN WGR WGST  
WHAS WHEC WHP WIBW WICC  
WISN WJAS WJSV WLAC WLWB  
WMBD WMT WNAC WOKO WORC  
WPG WQAM WSBT WSFA WSJS  
WTAQ WTAR WWVA

**SUNDAY—(Continued)**

**E-12:15 p.m., C-11:15, M-10:15, P-9:15**  
**R—Morning Home Circle**  
WCSH WEAF WEEI WFBR WFI  
WJAR WRC WTAG

**E-12:30 p.m., C-11:30, M-10:30, P-9:30**  
**C—Trio Guizar's Serenade**  
WABC WCAU WDRC WEAN WFEA  
WLWB WNCN WORC

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

**R—Chicago Round Table**  
WBEN WCSH WDAF WEAF WEEI  
WFBR WFI WGY WHO WJAR  
WOC WOW WRC WSAI WTAG  
WTAM WWJ

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

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

**R—Balkan Mountain Men**  
WBEN WCAE WDAF WEAF WEEI  
WENR WFI WGY WHO WJAR  
WLW WOC WRC WSAI WTAG  
WTAM WWJ

**E-1:30 p.m., C-12:30, M-11:30, P-10:30**  
**R—Little Known Facts**  
WBEN WCSH WEAF WEEI WFI  
WGY WJAR WTAG WTAM WWJ

**B—National Youth Conference**  
KDKA KFI KFSD KFYR KGH  
L KGR KGO KGW KHQ KOA KOIL  
KOMO KPRC KSO KTAR KTBS  
KVOO KWCR KWK WAPI WBAL  
WBZ WBZA WDAY WEBC WFAA  
WGAR WIBA WIOD WIS WJAX  
WJDX WJR WJZ WMAL WOAI  
WREN WRVA WSB WSM WSMB  
WSYR WWNC

**C—Lazy Dan, Minstrel Man**  
CKLW KMBC KNOX KRLD WABC  
WBBM WCAH WCAO WCAU WCCO  
WHAS WHK WJAS WJSV WKBW  
WKRC WMBG

**E-2:00 p.m., C-1:00, M-12:00, P-11:00**  
**C—Broadway Melodies; Helen Mor-**

**gan**  
CFBR CKLW KDB KPPY KFRC  
KGB KHJ KIZ KMBC KMOX KOIN  
KOL KRLD KSL KVI WABC WBBM  
WCAO WCAU WCCO WDCU WHK  
WJAS WJSV WKBW WKRC WLAC  
WNAC

**R—Gene Arnold and Commodores**  
KDYL KFI KGO KGW KHQ KOA  
KOMO KPRC KVOO WBEN WCAE  
WCSH WEAF WEBC WEEI WFAA  
WFBR WGY WIBA WJAR WKY  
WLW WMAQ WOAI WOV WPTF  
WRC WRVA WTAG WTAM WWJ  
WWNC

**B—Bar X Days and Nights**  
CFCF CRCT KDKA KOIL KSO  
KWCR KWK KYW WBAL WBZ  
WBZA WCKY WGAR WJR WJZ  
WMAL WREN WSYR

**E-2:30 p.m., C-1:30, M-12:30, P-11:30**  
**C—Abe Lyman's Orchestra**  
CFBR CKLW KMBC KMOX WABC  
WBBM WCAO WCAU WCCO WDRC  
WEAN WFBL WFBM WHEC WHK  
WJSV WKBW WKRC WNAK WOKO

**B—Yeast Foamers; Jan Garber**  
KDKA KDYL KFI KFSD KFYR  
KGLH KGR KGO KGW KHQ KOA  
KOIL KOMO KPRC KSO KSTP  
KTAR KTBS KTHS KVOO KWCR  
KWK KYW WAPI WBAL WBZ WBZA  
WDAY WEBC WFAA WFLA WGAR  
WHAM WIBA WIOD WIS WJAX  
WJDX WJR WJZ WKBF WKY WLW  
WMAL WMC WOAI WPTF WREN  
WRVA WSB WSM WSMB WSYR  
WTMJ WWNC

**R—John B. Kennedy**  
CFCF CRCT KSD WBEN WCAE  
WCKY WDAF WEAF WEEI WFBR  
WGY WJAR WMAQ WOW WRC  
WSAI WTAG WTAM WWJ

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

**E-3:00 p.m., C-4:00, M-1:00, P-12:00**  
**C—New York Philharmonic Orch.**  
CFAC CFBO CFCF CFCH CFEN  
CFCO CFY CFJ CFNB CFPL  
CFQC CHAB CHGS CHNS CHRC  
CHWC CHWK CJCA CJCB CJCJ  
CJGK CJOC CJRM CJRW CKCH  
CKCK CKNC CKOC CKOV CKPC  
CKPR CKUA CKX CKY CRCA  
CRCO CRCS CRCT CRCV CFRB  
CKLW KFH KLRA KLZ KMBC  
KMOX KOMA KSL KTRH KTSa  
KFOR WABC WADC WBIG WBR  
WCAO WCAU WCCO WDBJ WDRC  
WDSU WEAN WFBM WFEA WGN  
WGR WGST WHAS WHEC WHK  
WHP WIBW WICC WIP WISN WJSV  
WJVL WLAC WLWB WMBD WMBG  
WMT WNAK WOKO WORC WQAM  
WREC WSBT WSJS WTAQ WTAI  
WTOC WWVA

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

**B—International Tid-bits**  
CFCF CRCT KDKA KOIL KSO  
KWCR KWK KYW WBAL WBZ  
WBZA WCKY WFLA WGAR WHAM  
WIOD WIS WJAX WJDX WJR WJZ  
WMAL WMC WRVA WSB WSM  
WSMB WSYR WWNC

**E-3:30 p.m., C-2:30, M-1:30, P-12:30**  
**B—Antofaf's Cubans**  
KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WCKY WGAR  
WJR WJZ WKBF WMAL WREN  
WSYR

**E-4:00 p.m., C-3:00, M-2:00, P-1:00**  
**R—Fiddlers Three**  
CFCF CRCT KDYL KFI KFSD  
KFYR KGO KGW KHQ KOA KOMO  
KSO KSTP KTAR KTBS KYW  
WAPI WBEN WCAE WDAF WDAY  
WEAF WEBC WEEI WFLA WGY  
WHO WIBA WIOD WIS WJAR  
WJDX WKY WLIT WOAI WOC  
WOW WRC WRVA WSAI WSB WSM  
WTAG WTAM WWJ WWNC

**Rev. Charles E. Coughlin**  
KMOX KSTP KYW WCAO WCAU  
WDRC WEAN WFBL WFEA WGAR  
WGR WHB WHO WOC WJAS WJR  
WLWB WLW WMAS WNAK WOC  
WOL WOR WORG WCKY WOKO

**B—Railroad Adventures, Drama**  
KDKA KDYL KFI KFYR KGH  
L KGR KGO KGW KHQ KOA KOIL  
KOMO KPRC KSO KSTP KTBS  
KTHS KVOO KWCR KWK WAPI  
WBAL WBAP WBZ WBZA WCKY  
WDAY WEBC WENR WFLA WGAR  
WHAM WIBA WIOD WIS WJAX  
WJDX WJR WJZ WKBF WKY  
WMC WOAI WPTF WREN WRVA  
WSB WSM WSMB WSYR WTMJ  
WWNC

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

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

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

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

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

**SUNDAY—(Continued)**

**R — Big Ben Dream Drama**

WBEN WCAE WCSH WDAF WFAF  
WEEI WFBP WGY WJAR WMAQ  
WOW WRC WSAI WTAG WTAM  
WWJ

**B — National Vespers**

KDYL KECA KFSD KFYR KGH  
KGR KGO KGW KHQ KOA KOIL  
KPRC KSO KSTP KTR KTB  
KVoo KWCR KWK WAPI WBAL  
WBZ WBZA WCFR WCKY WDAY  
WEEB WFLA WGR WHAM WIBA  
WIOD WIS WJAX WJDX WJR WJZ  
WKY WMAL WMC WOAI WPTF  
WREN WRVA WSB WSM WSMB  
WWNC

**F — Vesper Hour**

CFBO CFCB CFCN CFCO CFCJ  
CFNB CFFL CFQC CHAB CHNS  
CHWC CHWK CJCA CJGX CJOC  
CJRM CJRW CKCH CKCK CKNC  
CKOC CKOV CKOC KPCR KCUA  
CKK CKY CRMC CRCO CRCT  
CRCV

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

**R — Achievements in Science, Drama**  
CFCF CRCT WBEN WCAE WCSH  
WDAF WFAF WENR WFBP WGY  
WJAR WOW WRC WSAI WTAG  
WTAM WWJ

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

**C — Frank Crumit; Julia Sanderson**  
CKLW KFAB KFH KMBC KMOX  
KOMA WAAB WABC WADC WCAH  
WCAO WCAU WDRG WDSU WEAN  
WFBL WFBM WGR WHEC WHK  
WSP WJSV WMAS WOKO WORC  
WPCD WTRAR WWVA

**R — Talkie Picture Time—Sketch**  
WCAE WCSH WDAF WFAF WEEI  
WFBP WFI WGY WJAR WMAQ  
WMC WOW WRC WSAI WSM WTAG

**B — Grand Hotel—Drama**

KDKA KDYL KFI KGO KGW KHQ  
KOA KOIL KOMO KSO KSTP KWCR  
KWK WBAL WBZ WBZA WCKY  
WEEB WENR WGR WHAM WJR  
WJZ WKBF WMAL WREN WSYR  
WTMJ

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

**C — Jacques Renard's Orchestra**  
CKLW KMBC KMOX WABC WBBM  
WCAO WCAU WCCO WFBM WGR  
WHK WJAX WJSV WKRC

**B — Catholic Hour**

KDYL KECA KFYR KGH  
KGR KGO KKM KPO KPRC  
KSTP KTR KTB KVOO WAPI  
WBAP WBEN WCAE WCSH WDAF  
WDAY WFAF WFCB WEEI WENR  
WFBP WFLA WGY WHO WIBA  
WIOD WIS WJAR WJAX WJDX  
WKY WLIT WMC WOAI WOC WOW  
WRC WRVA WSAI WSB WSM  
WSMB WTAG WTAM WWJ WWNC  
**B — Rhythm String Quartet**  
CFCF CRCT KOL KSO KWCR  
KWK WBAL WBZ WBZA WCKY  
WGR WHAM WJR WJZ WMAL  
WMAQ WREN WSYR

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

**C — Smiling Ed McConnell**  
CKLW KDB KERN KFAB KFBK  
KFH KFPY KPRC KGB KHJ KZ  
KMBC KMOX KOIN KOL KRLL  
KSL KVI KWG WAAB WABC WBBM  
WBT WCAH WCAU WCCO WDSU

WEAN WFBL WHAS WHEC WHP  
WJAX WJSV WKBW WKRC WLAC  
WMT WOKO WQAM WSPD WTRAR  
WWVA

**R — Our American Schools**

CFCF CRCT KDYL KECA KFSD  
KFYR KGW KOMO KPO KPRC KSD  
KSTP KTR KTB KVOO WAPI  
WBAP WBEN WCAE WCSH WDAF  
WDAY WFAF WFCB WEEI WFBP  
WFLA WGY WHO WIBA WIOD  
WJAR WJAX WJDX WKY WLIT  
WMAQ WMC WOAI WOC WRC  
WRVA WSAI WSB WSM WSMB  
WTAG WTAM WWJ WWNC

**F — Dinner Hour, See Monday**

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

**C — H. V. Kaltenborn**  
CKAC CKLW KLRA KLZ KMBC  
KTRH KTSR KVR WAAB WABC  
WACO WBIQ WBR WCAH WCAO  
WCAU WCCO WDAE WDBJ WDBO  
WDDO WDRG WEAN WFEA WGST  
WHAS WHEC WHP WFC WJAX  
WJSV WKBW WLAC WLBW WMAS  
WOKO WQAM WREC WSPA WSPD  
WTRAR WTOG

**B — Engineering Thrills, Drama**

KDKA KDYL KFI KFYR KGO  
KGW KHQ KOA KOIL KOMO KSO  
KSTP KWCR KWK WBAL WBZ  
WBZA WCKY WDAY WFCB WENR  
WGR WIBA WJR WJZ WMAL  
WREN WSYR WTMJ

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

**R — Blue Coal Program**  
CRCT WBEN WFAF WEEI WFBP  
WGY WJAR WLIT WRC WTAG

**B — Vincent Lopez; Alice Joy**

KDKA KDYL KFI KFYR KGO KGW  
KHQ KOA KOIL KOMO KPRC KSO  
KSTP KTHS KWCR KWK WBAL  
WBZ WBZA WDAY WFCB WFAA  
WGR WHAM WIBA WJDX WJZ  
WKY WLS WLW WML WOAI  
WPTF WREN WSB WSM WSMB  
WSYR WTMJ

**C — Ethel Waters; George Beatty**

WABC WBT WCAO WCAU WDAE  
WDBO WDRG WEAN WFEA WGST  
WHK WJAX WJSV WKBN WLVB  
WNAC WPG WQAM WTRAR WWVA

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

**B — Ozzie Nelson; Joe Penner**  
KDKA KDYL KFI KFYR KGO KGW  
KHQ KOA KOIL KOMO KPRC KSO  
KSTP KTR KVB KWCR KWK  
WBAL WBZ WCAE WDAY WEEB  
WFAA WFLA WGR WHAM WIBA  
WIOD WJAX WJDX WJR WJZ WKY  
WLS WLW WMAL WMC WOAI  
WPTF WREN WRVA WSB WSM  
WSMB WTMJ WWNC

**F — Atlantic Nocture; Organ**

Stations same as 7:00 Monday

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

**C — Rin Tin Tin Thriller**  
CKLW KMOX WABC WCAU WFBL  
WFBM WGN WGR WHAS WHK  
WJAX WJSV WKRC WEND  
**R — Fitch Program; Wendell Hall**  
CFCF KSD WBEN WCAE WCSH  
WDAF WFAF WFBP WGY WHO  
WJAR WLIT WMAQ WOC WOW  
WRC WSAI WTAG WTAM WWJ

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

**R — Chase and Sanborn Hour**  
CFCF CRCT KDYL KFI KFYR KGO  
KGW KHQ KOA KOMO KPRC KSD  
KSTP KTR KTHS KVOO WBEN  
WCAE WCSH WDAF WDAY WFAF  
WEEB WFAA WFBP WFLA WGY  
WHO WIOD WIS WJAR WJAX  
WJDX WKY WLIT WLW WMAQ  
WMC WOAI WOC WOW WPTF WRC  
WRVA WSB WSM WSMB WTAG  
WTAM WTMJ WTMJ WWJ WWNC

**C — Evening in Paris**

CKLW KLZ KMBC KMOX KOMA  
KSL WABC WADC WBBM WCAO  
WCAU WCCO WDSU WEAN WFBL  
WFBM WGR WGST WHAS WHK  
WJAX WJSV WKRC WOKO WSPD

**B — Egon Petri, Concert Pianist**

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

**F — Albert Pratz, Violinist**

Stations same as 7:00 Monday

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

**C — Freddie Rich; Mildred Bailey**  
CKLW KLZ KMBC KTRH KTSR  
KVR WAAB WABC WBRG WBT  
WCAH WCAO WDC WDAE WDBJ  
WDBO WDRG WDSU WFBM WFEA  
WGR WGST WHAS WHEC WHK WHP  
WICC WISN WJAX WJSV WKBN  
WLAC WLBW WMAS WODX WOKO  
WORC WQAM WREC WFSO WJSV  
WSPD WTRAR WWVA

**F — Ritz Carlton Concert**

Stations same as 10:30 Monday

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

**C — Erno Rapce; Nino Martini**  
CKLW KDB KERN KFBK KFPY  
KPRC KGB KHJ KHLA KLZ KMBC  
KMJ KMOX KOIN KOL KOMA  
KRLL KSCJ KSL KTRH KVI KWG  
WABC WADC WBBM WCAO WCAU  
WCCO WDRG WDSU WEAN WFBL  
WFBM WGR WGST WHAS WHK  
WISN WJAX WJSV WKRC WMT  
WNAC WNAX WOKO WORC WOWO  
WREC WSPD WTRAR

**R — Manhattan Merry-Go-Round**

KDYL KFI KGO KGW KHQ KOA  
KOMO KSD WDAF WFAF WFBP  
WFI WGY WHO WJAR WMAQ WOC  
WOAI WRC WSAI WTAM WTMJ  
WTV

**B — Will Rogers, Al Goodman**

KDKA KPRC WBAL WBZ WBZA  
WFA WFLA WGR WHAM WIOD  
WIS WJAX WJDX WJR WJZ WLW  
WMAL WMC WOAI WPTF WRVA  
WSB WSM WSMB WSYR WWNC

**F — Musical Comedy**

Stations same as 9:30 Monday

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

**R — Album of Familiar Music**  
CFCF CRCT KDYL KFI KGO KGW  
KHQ KOA KOMO KPRC KSD KSTP  
WAPI WBEN WCAE WCKY WCSH  
WDAF WFAF WEEI WFAA WFBP  
WFI WFLA WGY WHO WIOD WJAR  
WJAX WJDX WKY WMAQ WMC  
WOAI WOC WOW WPTF WRC  
WRVA WSAI WSB WSM WSMB  
WTAG WTAM WTMJ WWJ  
**B — Walter Winchell**  
KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WENR WGR  
WHAM WJR WJZ WLW WMAL  
WREN WSYR

## SUNDAY—(Continued)

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

### **B — Noveliers Quartet**

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

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

### **R — Chevrolet; Jack Benny**

KDYL KFI KFSD KFYR KGHL  
KGIR KGO KGW KHQ KOA KOMO  
KPRC KSTP KTRH KTBS WAPI  
WBAP WBNB WCAE WCSH WDAF  
WDAY WEAF WEBC WEEI WFBR  
WFI WFLA WGY WIBA WIOD WIS  
WJAR WJDX WKY WMAQ WMC  
WOAI WOW WRC WRVA WSB WSM  
WSMB WTAG WTAM WTCM WTMJ  
WVJ WVNC

### **B — Green Brothers Novelty Orch.**

CFCF KDKA KOIL KSO KWCR  
WBAL WENR WGAR WHAM WJZ  
WMAL WREN

### **C — Patri's Childhood Dramas**

CKLW KDB KERN KFBK KFPY  
KPRC KGB KHJ KLZ KMBC KMJ  
KMOX KOIN KOL KSL KVI KWC  
WAAB WABC WCAO WCAU WCCO  
WDRG WFBL WGR WILB WHK  
WJAS WJSV WKRC WOKO

### **F — Chateau Laurier Musicale**

Stations same as 9:30 Monday

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

### **R — Col. Louis McHenry Howe**

KDYL KFYR KGHL KGIR KGO  
KGW KHQ KOA KOMO KPRC KSD  
KSTP KV00 WBNB WCAE WDAF  
WDAY WEAF WEBC WEEI WFAA  
WFBR WFI WGY WHO WIBA WJAR  
WKY WMAQ WMC WOAI WOC

WOW WRC WSAI WSB WSMB

WTAG WTAM WTCM WTMJ WWJ

### **B — Phil Ducey, Baritone**

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

### **C — Madison Singers; Ann Leaf**

CFRB CKAC CKLW KFH KLRA  
KLZ KRLL KTRH KTSa KVOR  
WAAB WABC WACO WADC WBIG  
WBRC WCAH WCAO WCCO WDAE  
WDBJ WDBO WDOD WDRG WDSU  
WEAN WFBL WFEA WGR WGST  
WHAS WHEC WHK WHP WICC  
WIP WISN WJAS WJSV WKBN  
WLAC WMAS WNAC WODX WOKO  
WORC WPG WQAM WREC WFSa  
WSJS WSPD WTAR WTOG

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

### **B — Mountain Music**

CFCF KDKA KOIL KSO KWCR  
WBAL WENR WGAR WHAM WIOD  
WIS WJAX WJZ WMAL WREN  
WRVA WVNC

### **R — Sunday at Seth Parker's**

CRCT KDYL KFSD KFYR KGHL  
KGIR KGO KGW KHQ KOA KOMO  
KPRC KSD KSTP KTRH KTBS KYW  
WAPI WBNB WCAE WCSH WDAF  
WDAY WEAF WEBC WEEI WFAA  
WFBR WFLA WGY WHO WIBA  
WIOD WIS WJAR WJAX WJDX  
WMC WOAI WOC WOW WPTF WRC  
WRVA WSAI WSB WSM WSMC  
WTAG WTAM WTMJ WWJ WVNC

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

### **C — Guy Lombardo and Orchestra**

CFRB CKAC CKLW KFH KLRA  
KLZ KTRH KTSa KVOR WABC

WACO WBIG WBRC WCAH WCAO  
WDAE WDBJ WDBO WDOD WDRG  
WDSU WEAN WGST WHAS WHEC  
WHP WICC WIP WISN WJAS WJSV  
WKBN WLAC WLWB WMAS WMBD  
WNAC WODX WOKO WPG WQAM  
WREC WFSa WSJS WSPD WTAR  
WTOG

### **B — Ennio Volonini, 'cellist**

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

### **B — Walter Winchell**

KDYL KFI KFSD KGHL KGIR  
KGO KGW KHQ KOA KOMO KTRH

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

### **B — William Scotti and Orchestra**

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

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

### **C — Joe Hayes and Orchestra**

CFRB CKLW KFH KLRA KLZ  
KOMA KSL KTRH KTSa WABC  
WADC WBRC WCAO WCAU WDBJ  
WDRG WDSU WEAN WFBL WFBM  
WGR WGST WHAS WHEC WHK  
WHP WIBW WISN WJAS WJSV  
WLAC WLWB WMBD WMT WNAC  
WOKO WPG WQAM WREC WSBT  
WSJS WTAR WTOG

**E-12:00 mid., C-11:00, M-10:00, P-9:00**

### **C — Eddie Duchin and Orchestra**

KMBC KTRH KTSa WABC WCAU  
WCCO WEAN WGR WHAS WHP  
WICC WISN WJSV WLWB WMAS  
WMT WNAC WOKO WSPD

## KYW to Move to Philadelphia

Today (October 27th) the Federal Radio Commission hands down its long-awaited decision in the so-called 1020 and 1160 kc. cases. These cases went to hearing on July 18. Briefly the decision is as follows: The Westinghouse Electric & Mfg. Co., is granted permission to move their KYW from Chicago to a location near Philadelphia. The application of Kunsky-Trendle Broadcasting Corp., of Detroit for the 1020 channel is denied as, of course, are the applications of the other claimants: WFAN, WIP, and WCAU, all of Philadelphia.

## They Like It

"I am sorry your publication was not brought to my attention sooner as I am persuaded I have missed much valuable information. However from now on it will find a place on my radio every month."

J. Henry Scheidegger, Chief Pharmacist Mate, U.S.N., U. S. S. Bridge, Care Postmaster. San Francisco, Calif.

"I have found RADEX of more assistance in DXing than any other magazine I have ever read. I used to buy ten or twelve different kinds but now I buy RADEX and 'save the difference.' It is the most complete and up-to-date published."

Harold T. Hammond, Box 111, Marblehead, Mass.

"RADEX is the most interesting, the most absorbing, radio magazine that I have ever known. It has simplified many troubles I've had."

John J. Wojcik, 2842 West 25th Place, Chicago, Ill.

"I've read a good many radio magazines but have yet to see the equal of RADEX. I like particularly the news about DXers."

Victor Strinck, Jr., 5941 Leithgow St., Philadelphia.

# CLASSIFIED INDEX TO CHAIN PROGRAMS

*Time in Eastern Standard*

## CONCERTS

Howard Barlow, 11:00 p. m., Tuesday, C.  
 Concert Favorites, 7:45 p. m., Thursday, B.  
 N. Y. Philharmonic, 3:00 p. m., Sunday, C.  
 Philadelphia Symphony, 9:00 p. m., daily, ex. Sunday, C.  
 Radio City, 12:30 p. m., Sunday, B.  
 Trio Romantique, 7:30 p. m., Saturday, B.  
 Albert Spalding, 8:30 p. m., Wednesday, C.  
 Symphonic Strings, 11:00 p. m., Friday, C.  
 Waldorf Astoria, 6:00 p. m., daily, ex. Sunday, R.

## DANCE BANDS

Ben Bernie, 9:00 p. m., and 12:30 a. m., Tuesday, R.  
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 Reggie Childs, 12 mid., Saturday, B.  
 Jack Denny, 7:30 p. m., Tues., Thurs.; 7:15 p. m., Sat., C.  
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 Jan Garber, 2:30 p. m., Sunday, B.  
 Glen Gray, 11:30 p. m., Monday and Saturday, C.  
 Green Bros., 10:00 p. m., Sunday, B.  
 Phil Harris, 9:00 p. m., Friday, B.  
 Ernie Holst, 6:00 p. m., Wednesday, B.  
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 9:30 p. m., Thurs., B.  
 Wayne King, 10:00 p. m., Monday, C.; 3:00 p. m., Sun.; 8:30 Tues., R.  
 Guy Lombardo, 11:15 p. m., Sun.; 9:30 p. m., Wed., C.  
 Vincent Lopez, 7:00 p. m., Sunday, B.  
 Abe Lyman, 2:30 p. m., Sun., C.; 8:00 p. m., Wed., R.  
 Dick Messner, 6:00 p. m., Thursday, B.  
 Ozzie Nelson, 11:45 p. m., Wed., C.; 7:30 p. m., Sun., B.  
 George Olsen, 8:00 p. m., Wednesday, R.  
 Barney Rapp, 12:00 mid., Saturday, C.  
 Leo Reisman, 9:30 p. m., Wed., and Sat., R.  
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 Willard Robison, 10:00 p. m., Thursday, C.  
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 George Scherban, 6:45 p. m., Friday, C.  
 Phil Spitalny, 7:00 p. m., Sun., 6:30 p. m., Sat., R.  
 Rudy Vallee, 8:00 p. m., Thursday, R.  
 Fred Waring, 10:00 p. m., Wednesday, C.  
 Paul Whiteman, 11:30 p. m., Mon.; 10:00 p. m., Thurs., R.

## DIALOG

Fred Allen, 9:00 p. m. and 12:15 a. m., Friday, R.  
 Amos 'n' Andy, 7:00 and 11:00 p. m. daily, ex. Sat. and Sun., B.  
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 Jack Benny, 10:00 p. m., Sunday, R.  
 Burns and Allen, 9:30 p. m., Wednesday, C.  
 Cuckoo Program, 10:30 p. m., Saturday, B.  
 Andrew Kelly, 6:45 p. m., Monday, R.  
 Bert Lahr, 8:00 p. m., Wednesday, R.  
 Lum and Abner, 7:30 and 11:15 p. m., Mon. to Thurs., Inc.; 10:30 p. m., Fri., R.  
 Lulu McConnell, 9:30 p. m., Monday, C.  
 Walter O'Keefe, 8:00 p. m., Friday, B.  
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 Jack Pearl, 9:00 p. m., Saturday, R.  
 Joe Penner, 7:30 p. m., Sunday, B.  
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 Talkie Picture Time, 5:30 p. m., Sunday, R.  
 Ed Wynn, 9:30 p. m., Tuesday, R.  
 Elmer Everett Yess, 8:00 and 11:15 p. m., Tues., Thurs., Sat., C.

## DRAMA

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 Bar X Days, 2:00 p. m., Sunday, B.  
 Bobby Benson, 6:15 p. m., daily, ex. Sat. and Sun., C.  
 Big Ben's Dream, 5:00 p. m., Sunday, R.  
 Just Plain Bill, 7:15 p. m., daily, ex. Sat. and Sun., C.  
 Circus Days, 7:30 p. m., Fri. and Sat., R.  
 Columbia Dramatic Guild, 9:30 p. m., Thursday, C.  
 Dangerous Paradise, 8:30 p. m., Wed. and Fri., B.

Red Davis, 8:45 p. m., Mon., Wed., Fri., B.  
 Death Valley, 9:00 p. m., Thursday, B.  
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 Grand Hotel, 5:30 p. m., Sunday, B.  
 Kay-Seven, 10:30 p. m., Monday, R.  
 Warden Luwes, 9:00 p. m., Wednesday, B.  
 Legend of America, 10:00 p. m., Tuesday, C.  
 Little Italy, 6:45 p. m., Tues. and Thurs., C.  
 Lives at Stake, 10:00 p. m., Tuesday, R.  
 March of Time, 8:30 p. m., Friday, C.  
 Three Musketeers, 7:15 p. m., Thurs., Fri., Sat., B.  
 Myrt and Marge, 7:00 and 10:45 p. m., daily, ex. Sat. and Sun., C.  
 One Man's Family, 11:00 p. m., Saturday, R.  
 Patri's Child Drama, 10:00 p. m., Sunday, C.  
 Railroad Adventures, 4:00 p. m., Sunday, B.  
 Rin Tin Tin Thriller, 7:45 p. m., Sunday, C.  
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 Tales of Titans, 10:00 p. m., Saturday, B.

## PIANO AND ORGAN

Henri Deering, 10:30 p. m., Monday, B.  
 Fray and Braggiotti, 8:15 p. m., Saturday, C.  
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 Dion Kennedy, 4:30 p. m., Sunday, B.  
 Ann Leaf, 10:30 p. m., Sunday, C.  
 Ohman and Arden, 9:30 p. m., Sunday, R.  
 Egon Petri, 8:00 p. m., Sunday, B.

## POPULAR PROGRAMS

A. & P. Gypsies, 9:00 p. m., Monday, R.  
 Album Familiar Music, 9:30 p. m., Sunday, R.  
 Antobal's Cubans, 3:30 p. m., Sun., B.; 8:30 p. m., Sat., R.  
 Armour Program, 9:30 p. m., Friday, B.  
 Blackstone Plantation, 8:00 p. m., Tuesday, R.  
 Blue Coal Program, 7:00 p. m., Sunday, R.  
 Major Bowes' Family, 11:15 a. m., Sunday, R.  
 Carboround Band, 9:30 p. m., Saturday, C.  
 Chase and Sanborn, 8:00 p. m., Sunday, R.  
 Cheerio Musical Mosaics, 6:45 p. m., Tuesday, R.  
 Chevrolet Program, 10:00 p. m., Sunday, R.  
 Cities Service, 8:00 p. m., Friday, R.  
 Contented Program, 10:00 p. m., Monday, R.  
 Corn Cob Pipe Club, 10:00 p. m., Wednesday, R.  
 Del Monte Ship of Joy, 9:30 p. m., Monday, R.  
 Evening in Paris, 8:00 p. m., Sunday, C.  
 Fiddlers Three, 4:00 p. m., Sunday, R.  
 Fleischmann Hour, 8:00 p. m., Thursday, B.  
 Jack Frost's Melody, 9:30 p. m., Monday, B.  
 General Foots, 10:00 p. m., Saturday, C.  
 Grandmother's Trunk, 6:45 p. m., Saturday, R.  
 Hands Across Border, 10:00 p. m., Thursday, B.  
 Hoover Sentinels, 4:30 p. m., Sunday, R.  
 Household Musical, 9:00 p. m., Tuesday, B.  
 Ipana Troubadours, 9:00 p. m., Wednesday, R.  
 Jamboree Variety, 9:00 p. m., Saturday, B.  
 Lucky Strike, 9:00 p. m., Saturday, R.  
 Lum and Abner Society, 10:30 p. m., Friday, R.  
 Manhattan Merry-Go-Round, 9:00 p. m., Sunday, R.  
 Maxwell House Show Boat, 9:00 p. m., Thursday, R.  
 Mollie Show, 7:00 p. m., Mon., Wed. and Fri., R.  
 Music on the Air, 7:30 p. m., Mon., Wed., Fri., C.  
 Nestle's Chocolaters, 8:00 p. m., Friday, B.  
 Old Gold, 10:00 p. m., Wednesday, C.  
 O'Leary's Irish Minstrels, 7:45 p. m., Saturday, B.  
 Pond's Program, 9:30 p. m., Friday, R.  
 Rhythm String Quartet, 6:00 p. m., Sunday, B.  
 Richfield Country Club, 10:00 p. m., Monday, B.  
 Sealed Power Side Show, 8:00 p. m., Monday, B.  
 Sinclair Minstrels, 9:00 p. m., Monday, B.  
 Sous les Ponts de Paris, 8:30 p. m., Saturday, B.  
 Swift Revue, 10:00 p. m., Friday, C.  
 Texaco Fire Chief, 9:30 p. m., Tuesday, R.

Threads of Happiness, 9:15 p. m., Friday, C.  
 Wildroot, 4:15 p. m., Sunday, R.  
 WLS Barn Dance, 11:00 p. m., Saturday, B.  
 Yeast Foamers, 2:30 p. m., Sunday, B.

### RELIGIOUS

Catholic Hour, 6:00 p. m., Sunday, R.  
 Church of the Air, 1:00 p. m., Sunday, C.  
 Mid-Week Hymn Sing, 6:30 p. m., Tuesday, R.  
 National Vespers, 5:00 p. m., Sunday, B.  
 Old Songs of Church, 6:30 p. m., Thursday, B.  
 Seth Parker's, 10:45 p. m., Sunday, R.  
 Salt Lake Choir, 11:30 a. m., Sunday, C.

### SINGERS

Frances Alda, 6:00 p. m., Tuesday, R.  
 Baby Rose Marie, 7:15 p. m., Monday, B.  
 Mildred Bailey, 8:30 p. m., Sun.; 6:15 p. m., Sat., C.  
 Betty Barthell, 6:30 p. m., Tuesday, C.  
 Irene Beasley, 6:30 p. m., Mon., Fri., R.; 6:30 p. m., Wed., B.  
 Betty Boop Frolics, 6:45 p. m., Friday, R.  
 Boswell Sisters, 11:15 p. m., Monday and Friday, C.  
 Eddie Cantor, 8:00 p. m., Sunday, R.  
 Jack and Loretta Clemens, 7:45 p. m., Saturday, R.  
 Bing Crosby, 8:30 p. m., Monday, C.  
 Mario Cozzi, 10:30 p. m., Friday, B.  
 Jessica Dragonette, 8:00 p. m., Friday, R.  
 Phil Duesy, 10:30 p. m., Sunday, 9:30 p. m., Monday, B.  
 Evan Evans, 11:00 p. m., Monday, C.  
 Father Finn Choristers, 8:30 p. m., Monday, B.  
 Jane Froman, 9:00 p. m., Sunday; 7:00 p. m., Saturday, C.  
 Tito Guizar, 12:30 p. m., Sunday; 6:45 p. m., Saturday, C.  
 Wendall Hall, 7:45 p. m., Sunday, R.  
 Hall Johnson Singers, 8:30 p. m., Thursday, C.  
 Annette Hanshaw, 9:00 p. m., Thursday, R.  
 Happy Bakers, 8:00 p. m., Mon., Wed., Fri., C.  
 John Herrick, 7:15 p. m., Wed.; 7:00 p. m., Sat., R.  
 George Jessel, 8:30 p. m., Saturday, C.  
 Alice Joy, 7:00 p. m., Sunday, B.  
 Lazy Dan, 1:30 p. m., Sunday, C.  
 Ruth Lyon, 10:30 p. m., Wednesday, B.  
 Madison Ensemble, 12:45 p. m., Sun.; 10:30 p. m., Sun., C.  
 Nino Martini, 9:00 p. m., Sun.; 9:30 p. m., Tues., C.  
 Smiling Ed McConnell, 6:30 p. m., Sunday, C.  
 John McCormack, 9:30 p. m., Wednesday, B.  
 Modern Male Chorus, 8:45 p. m., Tuesday, C.  
 Helen Morgan, 2:00 p. m., Sunday, C.  
 Morin Sisters, 4:15 p. m., Sunday, B.  
 Mountain Music, 10:45 p. m., Sunday, B.  
 Frank Munn, 9:30 p. m., Sun.; 8:30 p. m., Wed., R.

Gertrude Niesen, 9:30 p. m., Monday.  
 Noveliers Quartet, 9:45 p. m., Sunday, B.  
 Viola Philo, 11:00 p. m., Thursday, R.  
 Virginia Rea, 9:30 p. m., Sunday, R.  
 Phil Regan, 11:15 p. m., Thursday, C.  
 Revelers Quartet, 9:00 p. m., Sun.; 8:45 p. m., Thurs., B.  
 Gladys Rice, 11:00 p. m., Thursday, C.  
 Carson Robison, 2:00 p. m., Sunday, B.  
 Lanny Ross, 9:00 p. m., Thursday, R.  
 Sanderson-Crumit, 5:30 p. m., Sun., C.; 8:00 p. m., Tues., R.  
 Ethel Shutta, 8:00 p. m., Friday, B.  
 Singin' Sam, 8:15 p. m., Tues. and Thurs., C.  
 Sizzlers Trio, 6:45 p. m., Thursday, R.  
 Mary Small, 10:00 p. m., Sun.; 6:30 p. m., Tues. and Sat., B.  
 Smith Bros., 8:45 p. m., Tuesday, B.  
 Songs Mother Used to Sing, 6:00 p. m., Sunday, C.  
 Conrad Thibault, 8:30 p. m., Wednesday, C.  
 Three Jesters, 7:45 p. m., Monday, B.  
 Ortiz Tirado, 10:00 p. m., Tuesday, B.  
 Vera Van, 6:30 p. m., Mon. and Wed.; 8:30 p. m., Sat., C.  
 Vee and Johnny, 4:15 p. m., Sunday, R.  
 Ethel Waters, 7:00 p. m., Sunday, C.  
 Lee Wiley, 9:30 p. m., Friday, R.  
 Muriel Wilson, 2:45 p. m., Sunday, R.  
 Yacht Club Boys, 9:30 p. m., Saturday, R.

### TALKS

Back of the News, 6:30 p. m., Wednesday, R.  
 Admiral Byrd Expedition, 10:00 p. m., Saturday, C.  
 Don Carney's Dog Chat, 7:45 p. m., Tuesday, B.  
 Boake Carter, 7:45 p. m., daily, ex. Sat. and Sun., C.  
 Columbia News Service, 10:30 p. m., daily, ex. Sun., C.  
 Father Coughlin, 4:00 p. m., Sunday  
 Edwin C. Hill, 8:15 p. m., Mon., Wed., Fri., C.  
 Horhek's Health, 8:30 p. m., Tues. and Thurs., B.  
 Col. Louis McHenry Howe, 10:30 p. m., Sunday, R.  
 H. V. Kautenborn, 6:45 p. m., Sun.; 6:00 p. m., Fri., C.  
 John B. Kennedy, 2:30 p. m., Sun.; 6:30 p. m., Thurs., R.  
 National Radio Forum, 10:30 p. m., Wednesday, R.  
 National Youth Conference, 1:30 p. m., Sunday, B.  
 Radio in Education, 7:15 p. m., Tuesday, B.  
 Grantland Rice, 10:00 p. m., Monday, B.  
 Irene Rich, 7:45 p. m., Wed. and Fri., B.  
 Will Rogers, 9:00 p. m., Sunday, B.  
 Our American Schools, 6:30 p. m., Sunday, R.  
 Madame Sylvia, 10:30 p. m., Monday, R.  
 Lowell Thomas, 6:45 p. m., daily, ex. Sat. and Sun., B.  
 Flying Capt. Williams, 6:45 p. m., Saturday, B.  
 Walter Winchell, 9:30 and 11:15 p. m., Sunday, B.  
 Alexander Woolcott, 9:15 p. m., Mon. and Wed., C.

## KEY TO SYMBOLS

As Shown in the Index by  
 Frequencies and Dial Numbers

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

### Second Column Symbols

- a Verifies reception for return postage.
- b Verifies only occasionally.
- c Does not verify.
- d Verification 10c; letter 25c.
- e Sends Ekko stamp for 10c.
- f Sends Ekko stamp for 5c.
- g Sends Ekko stamp for postage.
- h Sends own station stamp for 10c.
- l Sends own station stamp for 5c.
- j Sends own station stamp for postage.
- k Has no stamps.
- s 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 Brdcastg. Commission.
- G All Canadian networks.

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

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

# INDEX BY FREQUENCIES AND DIAL NUMBERS

With Thursday's Time on the Air

KCYS.  
600  
DIAL

## 540 kilocycles 555.2 meters

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CJRM	z	500	F	Moose Jaw, Sask. C	
CJRW	ak	500	F	Fleming, Sask. C	8:00-9:00; 10:00-10:45; 1:00-1:15; 2:15-2:30;
					5:30-7:30; 8:00-9:30
KEY	z	105	546.8	Merida, Yuc.	

## 550 kilocycles 545.1 meters

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KFDY	ae	500	1 (1)	Brookings, S. D. C	12:30-2:00
KFUO	ae	500	2 (1)	St. Louis, Mo. C	
KFYR	ah	1000	IN (2.5)	Bismarck, N. D. C	7:00-12:30; 2:00-11:30
KOAC	ak	1000	.....	Corvallis, Ore. P	6:30-4:00; 6:30-9:00
KSD	ak	500	2R	St. Louis, Mo. C	
TISO	ak	250	.....	San Jose, C. R. C	10:00-1:00; 4:00-11:00
WDEV	ae	500	D	Waterbury, Vt. E	7:30-10:00; 11:30-2:00; 3:00-7:00
WGR	ae	1000	C	Buffalo, N. Y. E	7:30-mid.
WKRC	ak	1000	C	Cincinnati, Ohio. E	7:00-1:00

## 560 kilocycles 535.4 meters

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KFDM	ak	500	(1)	Beaumont, Texas. C	7:00-10:00
KGIZ	ak	500	D	Springfield, Mo. C	7:00-7:00
KLZ	ak	1000	C	Denver, Colo. M	6:45-11:30
KTAB	ak	1000	.....	San Francisco, Calif. P	7:00-1:00
WFI	ae	500	1R	Philadelphia, Pa. E	6:45-9; 9:45-11; 1-2; 3-4:30; 6-mid.
WIND	ak	1000	C	Gary, Ind. C	5:30-3:30
WLIT	ak	500	1R	Philadelphia, Pa. E	9:00-9:45; 11:00-1:00; 2:00-3:00; 4:30-6:00
WNXX	ak	1000	C (2)	Knoxville, Tenn. C	
WQAM	ae	1000	CW	Miami, Fla. E	7:15-mid.
XEAO	ak	100	(.15)	Mexicali, B. C. P	8:00-10:00

## 570 kilocycles 526.0 meters

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KGKO	ak	250	(.5)	Wichita Falls, Texas. C	7:00-10:00
KMTR	ak	500	.....	Hollywood, Calif. P	6:00-12:15
KVI	ak	500	.....	Tacoma, Wash. P	6:00-mid.
WKBN	ae	500	1C	Youngstown, Ohio. E	7:30-9:00; 11:00-1:00; 3:00-mid.
WMCA	ak	500	.....	New York, N. Y. E	8:00-1:00
WNAX	ak	1000	C (2.5)	Yankton, S. D. C	6:00-mid.
WOSU	ae	750	1 (1)	Columbus, Ohio. E	9:00-11:00; 1:00-3:00
WSYR	ak	250	B	Syracuse, N. Y. E	7:30-1:00
WWNC	ae	1000	N	Asheville, N. C. E	8:00-1:00

## 580 kilocycles 516.9 meters

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CHMA	ak	250	S	Edmonton, Alta.	
CKCL	aj	100	M	Toronto, Ont. E	8:00-11:30 (CFCL)
CKUA	ak	500	F	Edmonton, Alta. M	
CRCA	ak	500	F	Moncton, N. B. A	12:30-2:00; 8:00-mid.
HIX	ah	1500	.....	Santo Domingo, D. R. E	Silent
KMJ	ak	500	CT	Fresno, Calif. P	7:00-mid.
KSAC	ak	500	2 (1)	Manhattan, Kans. C	8:00-9:00; 10:00-10:30; 12:30-1:30; 4:30-5:30
WDBO	ae	250	CW	Orlando, Fla. E	7:00-mid.
WBW	ae	1000	C2	Topeka, Kans. C	6:00-mid.
WOBU	ak	250	(.5)	Charleston, W. Va. E	8:00-mid.
WTAG	ae	250	R (.5)	Worcester, Mass. E	8:00-mid.
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

30		
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CMW	ae	1400	.....	Havana, Cuba. E	
KHQ	ak	1000	N (2.5)	Spokane, Wash. P	7:00-1:00
WEBI	ak	1000	R	Boston, Mass. E	
WKZO	ae	1000	DK	Kalamazoo, Mich. E	7:00-7:00
WOW	ae	1000	R	Omaha, Neb. C	7:00-10:00; 10:45-3:15; 4:00-mid.

## 600 kilocycles 499.7 meters

733		
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CFCF	ae	500	F	Montreal, Que. E	7:30-mid.
KFOD	ck	250	.....	Anchorage, Alaska. L	6:00-mid.
KFSB	ah	1000	N	San Diego, Calif. P	7:30-mid.
WCAC	ae	250	2	Storrs, Conn. E	12:30-1:00; 7:00-8:00
WCAC	ae	250	C	Baltimore, Md. E	7:00-mid.
WICC	ae	250	2 CH (.5)	Bridgeport, Conn. E	7:45-1:00
WMT	af	500	C	Waterloo, Iowa. C	6:00-mid.
WREC	ak	500	C (1)	Memphis, Tenn. C	6:30-mid.

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With Thursday's Time on the Air

## 610 kilocycles 491.5 meters

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

## 620 kilocycles 483.6 meters

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

## 630 kilocycles 475.9 meters

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

## 640 kilocycles 468.5 meters

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

## 650 kilocycles 461.3 meters

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

## 660 kilocycles 454.3 meters

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

## 670 kilocycles 447.5 meters

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

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CMAF	ak	1000	.....	Havana, Cuba.	E—5:30-11:30
HJN	ak	500	681	Bogota, Colombia.	L—Noon-1:30; 8:00-11:00
KFEQ	ae	2500	D	St. Joseph, Mo.	C—9:30-4:50
KPO	ak	50000	N	San Francisco, Calif.	P—7:30-mid.
VAS	z	2:00	685	Glace Bay, N. S.	A—1:00-1:15; 1:00-1:15
WPTF	ae	1000	DnN	Raleigh, N. C.	E—7:30-sunset

## 690 kilocycles 434.5 meters

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

## 700 kilocycles 428.3 meters

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

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KMPC	ae	500	Dn	Beverly Hills, Calif.	P—6:45-12:30
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With Thursday's Time on the Air

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

**720 kilocycles 416.4 meters**

WGN ck 25000 ..... Chicago, Ill. C—7:00-1:30

**730 kilocycles 410.7 meters**

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

**KCYS.  
820  
DIAL**

**740 kilocycles 405.2 meters** 48

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

**750 kilocycles 399.8 meters**

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

**760 kilocycles 394.5 meters**

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

**770 kilocycles 389.4 meters**

KFAB	ae	5000	CSy	Lincoln, Neb.	C—5:00-6:45; 9:00-mid.
WBBM	ae	25000	CSy	Chicago, Ill.	C

**780 kilocycles 384.4 meters**

CHWK	ak	100	F	Chilliwack, B. C.	P—9:00-10:00; 12:00-1:00; 5:30-8:30
CJCS	ae	500	(1) P	Sudbury, Ont.	E—8:00-mid.
CKPR	ak	100	FE	Fort William, Ont.	E—10:00-2:00; 5:00-11:00
CMBS	ag	200	1 (15)	Havana, Cuba.	E—10:00-noon; 3:30-6:00
CMCQ	z	1000	1	Havana, Cuba.	E
KELW	ae	500	2	Burbank, Calif.	P—10:00-1:00; 5:00-8:00; 4:00-6:00
KTM	ae	500	2 (1)	Los Angeles, Calif.	P—6:00-10:00; 1:00-5:00; 8:00-4:00
WEAN	ae	500	CH	Providence, R. I.	E—7:30-1:00
WMC	ak	500	N (1)	Memphis, Tenn.	C—7:00-mid.
WTAR	ae	500	C	Norfolk, Va.	E—7:00-mid.
XEP	z	1000	.....	Mexico City, D. F.	C
XEYZ	z	10000	.....	Mexico City, D. F.	C

**790 kilocycles 379.5 meters**

CMJK	ak	500	.....	Camaguey, Cuba.	E—11:30-12:30; 5:00-11:00
KGO	ak	7500	N	San Francisco, Calif.	P—7:00-mid.
WGY	ak	50000	R	Schenectady, N. Y.	E—6:45-1:00

**800 kilocycles 374.8 meters**

VOAC	z	40	.....	St. John's, Newfoundland.	L
WBAP	ak	50000	Na	Fort Worth, Texas.	C—6:30-7: 8:30-10:30; 12:30-3; 5:30-6:30; 7-10
WFAA	ak	50000	Na	Dallas, Texas.	C—7-8:30; 10:30-12:30; 3-5:30; 6:30-7; 10-mid.
XFC	z	350	805	Aguaascalientes, Ags.	

**810 kilocycles 370.2 meters**

VOAS	ak	100	.....	St. John's, Nfld.	L—11:00-12:30; 4:00-5:30
WCCO	ae	50000	C	Minneapolis, Minn.	C—7:00-mid.
WNYC	ak	500	N	New York, N. Y.	E—10:00-7:30

**820 kilocycles 365.6 meters**

CMGC	z	30	C.....	Matanzas, Cuba.	E
WHAS	aj	25000	C	Louisville, Ky.	C—7:00-mid.

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## 830 kilocycles 361.2 meters

CMGA	z	100	834	Colon, Cuba.	E			
KOA	ak	12500	N	Denver, Colo.	M—7:00-mid.			
TIEA	z	7.5	833	San Jose, C. R.	L			
WEHU	ak	1000	D	Reading, Pa.	E—8:00-6:15			
WHDH	ae	1000	DnA	Boston, Mass.	E—7:00-sunset in Denver			
WRUF	ae	5000	Dn	Gainesville, Fla.	E—8:00-6:30			
XETW	dk	500	.....	Mexico City, D. F.	C—Noon-11:00			

## 840 kilocycles 356.9 meters

CJOC	ak	100	F	Lethbridge, Alta.	M—7:30-8:00			
CKLW	ae	5000	C	Windsor, Ont.	E—7:00-1:00			
CMC	ae	500	.....	Havana, Cuba.	E—10:30-11:30; 8:00-11:00			
XFX	ak	500	.....	Mexico City, D. F.	C—7:00-noon; 6:30-10:00			

## 850 kilocycles 352.7 meters

KIEV	ak	100	D	Glendale, Calif.	P—6:00-sunset			
KWKH	ae	10000	1	Shreveport, La.	C			
WWL	ae	10000	1Dn	New Orleans, La.	C—8:00-8:30			

## 860 kilocycles 348.6 meters

TIVL	z	30	869	San Jose, C. R.	C—11:00-1:00; 7:00-10:00			
WABC	ae	50000	C	New York, N. Y.	E—7:30-2:00 (WBOQ)			
WHB	ae	500	D	Kansas City, Mo.	C—6:00-5:00			
XETH	ak	100	.....	Puebla, Pue.	C—8:30-11:00; 1:00-3:00; 6:30-11:00			

## 870 kilocycles 344.6 meters

WENR	ak	50000	Na	Chicago, Ill.	C			
WLS	ae	50000	Na	Chicago, Ill.	C—5:30-9:15; 10:45-2:30; 6:00-7:30			
XEAD	z	2500	875	Mexico City, D. F.	C			

## 880 kilocycles 340.7 meters

CJCB	ak	50	.....	Sydney, N. S.	A—10:00-11:00; noon-2:00; 5:00-10:00			
CRCO	ak	1000	F	Ottawa, Ont.	E—Noon-1:30; 5:30-11:30			
KFKA	ak	500	2 (1)	Greeley, Colo.	M—6:00-7:30; 9:00-2:30; 4:30-6:00; 8:00-mid.			
KLX	ae	1000	.....	Oakland, Calif.	P—8:00-11:00			
KPOF	ae	500	2	Denver, Colo.	M—7:30-9:00; 2:30-4:30; 6:00-8:00			
WCOC	ae	500	(1)	Meridian, Miss.	C—7:30-2:00; 5:00-10:30			
WGBI	ae	250	1	Scranton, Pa.	E—9:30-12:30; 1:30-4:30; 5:30-10:30			
WQAN	ae	250	1	Scranton, Pa.	E—9:00-9:30; 12:30-1:30; 4:30-5:30			
WSUI	ae	500	.....	Iowa City, Iowa.	C—9:00-10:00; 11:00-12:30; 2:00-4:00; 6:00-10:00			
YV2BC	z	100	882	Caracas, Venez.	L			

## 890 kilocycles 336.9 meters

CMCF	ak	250	1	Havana, Cuba.	E—5:00-8:00			
CMX	ae	1000	1	Havana, Cuba.	E—Noon-2:00; 8:00-11:00			
KARK	ak	250	.....	Little Rock, Ark.	C—7:00-2:30; 4:30-9:00			
KKFN	ak	500	2 (1)	Shenandoah, Iowa.	C—5:00-10:00; 11:00-5:00; 6:00-10:00			
KSEI	ck	250	(.5)	Pocatello, Idaho.	M—7:30-11:00			
KUSD	ae	500	2	Vermillion, S. D.	C—Silent			
WGST	ae	250	C (.5)	Atlanta, Ga.	C—7:00-mid.			
WILL	ak	250	2 (.1)	Urbana, Ill.	C—10:00-12:15; 5:00-6:00			
WJAR	ae	500	R	Providence, R. I.	E—8:00-1:00			
WMMN	ae	250	(.5)	Fairmont, W. Va.	E—7:00-9:30			
XETU	z	100	.....	Pachuca, Hdo.				

## 900 kilocycles 333.1 meters

KGBU	ak	500	.....	Ketchikan, Alaska.	L			
KHJ	ae	1000	CT	Los Angeles, Calif.	P—7:00-1:00			
VOWR	ak	500	S	St. John's, Nfld.	L—Silent			
WBEN	ae	1000	R	Buffalo, N. Y.	E—6:45-Mid.			
WJAX	ae	1000	N	Jacksonville, Fla.	E—7:00-12:30			
WKY	ak	1000	N	Oklahoma City, Okla.	C—6:45-mid.			
WLBL	ae	2500	D	Stevens Point, Wis.	C—8:00-sunset			

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## 910 kilocycles 329.6 meters

CFRC	ak	100	915	Kingston, Ont.	E	
CKY	ak	5000	.....	Winnipeg, Man.	E	C-8:30-1:30; 4:00-11:00
CRCM	z	5000	F	Montreal, Que.	E	
TICR	z	75	911	San Jose, C. R.	C	C-6:30-10:00
XEW	ak	5000	.....	Mexico City, D. F.	C	

## 920 kilocycles 325.9 meters

CMCD	ah	500	(.25)	Havana, Cuba.	E	Noon-9:00
CMDE	z	150	925	Havana, Cuba.	E	
HHK	ae	1000	.....	Port-au-Prince, Haiti.	E	Silent
KFEL	ak	500	1	Denver, Colo.	M	6:30-8:30; 10:00-12:30; 3:00-4:30; 9:00-mid.
KFXF	ae	500	1	Denver, Colo.	M	8:30-10; 12:30-3; 4:30-6; 7:30-9; mid.-1
KOMO	ak	1000	N	Seattle, Wash.	P	6:55-mid.
KPRC	ae	1000	N (2.5)	Houston, Texas.	C	6:30-mid.
WAAF	ak	500	D	Chicago, Ill.	C	6:00-sunset
WBOS	ae	500	D	Babson Park, Mass.	E	8:30-5:15
WWJ	ae	1000	R	Detroit, Mich.	E	7:30-mid.

## 930 kilocycles 322.4 meters

CFAC	ak	500	.....	Calgary, Alta.	M	
CFCH	ak	100	F	North Bay, Ont.	E	Noon-1:30; 5:30-mid.
CFLC	ae	100	.....	Prescott, Ont.	E	8:00-10:00; noon-2:00; 5:00-7:30
CHRC	ak	100	F	Quebec, Que.	E	9:00-12:30
CKPK	ak	100	FG	Preston, Ont.	E	6:45-mid.
CMJF	z	200	.....	Camaguey, Cuba.	E	
KFWI	ak	500	1	San Francisco, Calif.	P	
KGBZ	ak	500	2 (1)	York, Neb.	C	5-6; 7:30-9:30; 11-12:30; 2-3:30; 6-mid.
KMA	ak	500	2 (1)	Sherandoah, Iowa.	C	6-7:30; 9:30-11; 12:30-2; 3:30-5
KROW	ak	500	1 (1)	Oakland, Calif.	P	8:00-9:00; 1:00-6:00; 7:30-11:00
WBRC	ak	500	C (1)	Birmingham, Ala.	C	7:00-11:00
WDBJ	ae	250	C (.5)	Roanoke, Va.	E	8:00-mid.
WIBG	ae	25	DZ	Glenside, Pa.	E	9:00-sunset

KCY.S.

990

DIAL

## 940 kilocycles 319.0 meters

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

## 950 kilocycles 315.6 meters

CMHD	dk	500	(.25)	Caibarien, Cuba.	E	Silent
KFWB	ak	1000	.....	Hollywood, Calif.	P	7:30-12:30
KGHL	ak	1000	NJ (2.5)	Billings, Mont.	M	8:00-11:00
KMBC	ak	1000	C	Kansas City, Mo.	C	6:00-mid.
WRC	ae	500	R	Washington, D. C.	E	6:30-1:00

## 960 kilocycles 312.3 meters

CMBD	z	250	965	Havana, Cuba.	E	6:00-11:00
CMCW	ak	150	965	Havana, Cuba.	E	Noon-6:00
CMJL	z	50	.....	Camaguey, Cuba.	E	
CRCT	ak	5000	NE	Toronto, Ont.	E	6:45-mid.
XEAW	ak	10000	965	Reynosa, Tams.	C	5:00-1:00
YVIBC	ak	5000	.....	Caracas, Venez.	L	11:00-1:30; 5:30-10:15

## 970 kilocycles 309.1 meters

CMGF	ak	100	977	Matanzas, Cuba.	E	3:00-5:00; 8:00-10:30
KJR	z	5000	N	Seattle, Wash.	P	6:55-mid.
WCFL	ae	1500	BX	Chicago, Ill.	C	7:00-mid.

## 980 kilocycles 303.9 meters

KDKA	ak	5000	B	Pittsburgh, Pa.	E	7:00-1:00
XEAE	ak	800	.....	Tijuana, B. C.	P	9:00-mid.

## 990 kilocycles 302.8 meters

TITV	z	7.5	999	San Jose, C. R.	C	3:00-5:00; 7:00-11:00
WBZ	ak	25000	BSy	Boston, Mass.	E	
WBZA	ak	1000	BSy	Springfield, Mass.	E	
WJEM	z	500	D	Tupelo, Miss.	C	
XEK	ak	100	.....	Mexico City, D. F.	C	11:00-4:00; 6:00-2:00

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## 1000 kilocycles 299.8 meters

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KFVD	ae	250	Dn	Los Angeles, Calif.	P—6:30-sunset; 10:00-mid.
WHO-					
WOC	ak	50000	R	Des Moines, Iowa.	C—7:00-mid.
WORK	ak	1000	D	York, Pa.	E—8:00-6:45
XEA	ak	250	.....	Guadalajara, Jal.	C—8:30-9:00; 6:00-11:00
XEC	z	50	.....	Toluca, D. F.	C
XEFE	z	100	.....	Nuevo Laredo, Tams.	C
XEFJ	ak	100	.....	Monterrey, N. L.	C—11:00-2:00; 7:00-10:00
XEFS	ak	40	.....	Queretaro, Oro.	C—8:00-10:00
XEL	ak	40	.....	Saltillo, Coah.	C—10:30-1:00; 6:00-9:00

## 1010 kilocycles 296.9 meters

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CHML	aei	50	M	Hamilton, Ont.	E—8:00-11:00
CHWC	ae	500	3F	Regina, Sask.	M—7:00-9:00; 10:00-11:00; noon-1:00; 3:30-6:30
CKCD	ak	100	.....	Vancouver, B. C.	P—7:30-9:30
CKCK	ak	500	3F	Regina, Sask.	M—9:00-10:00; 11:00-noon; 1:00-3:30; 5:30-11:00
CKCO	z	100	.....	Ottawa, Ont.	E
CKIC	ak	50	.....	Wolfville, N. S.	A—Noon-1:00; 6:00-8:00
CKWX	aei	100	LZ	Vancouver, B. C.	P—7:00-7:30; 9:30-mid.
CMBZ	ak	150	.....	Havana, Cuba.	E—11:00-1:00; 4:00-6:00; 8:30-11:00
CMJO	ak	50	.....	Ciego de Avila, Cuba.	E—9:00-1:00; 6:00-10:00
KGGF	ak	500	2 (1)	Coffeyville, Kans.	C—7:30-2:00; 3:45-7:15
KQW	ae	500	.....	San Jose, Calif.	P—7:00-8:00; 9:00-3:00; 4:30-10:00
TIGA	z	30	1014	Cartago, C. R.	
WHN	ae	250	1	New York, N. Y.	E—1:30-7:00
WIS	ae	500	N (1)	Columbia, S. C.	E—8:00-mid.
WNAD	ae	500	2	Norman, Okla.	C—7:15-9:15
WPAP	ae	250	1	New York, N. Y.	E—7:00-9:00
WQAO	ae	250	1	New York, N. Y.	E—Silent
WRNY	ae	250	1	New York, N. Y.	E—9:30-1:30; 9:00-1:00
XEJ	ak	500	1015	Y Suarez, Chih.	C
XEU	ak	100	.....	Veracruz, Ver.	C—7:00-9:00; 10:00-2:00; 5:00-11:00

## 1020 kilocycles 293.9 meters

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KYW	ae	10000	NY	Chicago, Ill.	C—8:00-1:00
WRAX	ak	250	DZ	Philadelphia, Pa.	E—7:00-7:00
XES	dk	250	.....	Tampico, Tams.	E—10:00-2:30; 5:00-10:00

## 1030 kilocycles 291.1 meters

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CFCN	ak	10000	.....	Calgary, Alta.	M
CFNB	ae	500	FE	Fredericton, N. B.	A—8:30-9:30; 12:30-2:00; 7:30-10:00
CKNC	ak	100	F	Toronto, Ont.	E—8:00-11:00
CMHI	ak	250	1037	Santa Clara, Cuba.	E—11:00-noon; 8:00-9:00
CMKC	z	150	1034	Santiago, Cuba.	E
XEB	ak	10000	.....	Mexico City, D. F.	C—9:30-10:00

## 1040 kilocycles 288.3 meters

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CMGH	ak	15	.....	Matanzas, Cuba.	E—2:00-3:00; 5:00-6:00; 7:30-8:30
KRLD	ae	10000	1C	Dallas, Texas.	C
KTHS	ae	10000	IN	Hot Springs, Ark.	C
WESG	ak	1000	D	Elmira, N. Y.	E—8:00-7:00
WKAR	ak	1000	D	East Lansing, Mich.	E

## 1050 kilocycles 285.5 meters

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CHNS	ae	500	FL	Halifax, N. S.	A—8:00-1:30; 6:00-mid.
CMJG	z	50	.....	Carnaguey, Cuba.	E
KFB1	ak	5000	Dn	Abilene, Kans.	C—6:00-sunset
KNX	ak	25000	.....	Hollywood, Calif.	P—6:45-11:00
XEFC	ak	100	.....	Merida, Yuc.	C—8:00-10:00

## 1060 kilocycles 282.8 meters

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KWJJ	ak	500	.....	Portland, Ore.	P—6:00-8:00; 9:00-2:00
WBAL	ae	10000	1B	Baltimore, Md.	E—3:00-mid.
WJAG	ak	1000	D	Norfolk, Neb.	C—6:45-sunset
WTIC	ak	50000	1R	Hartford, Conn.	E

## 1070 kilocycles 280.2 meters

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CMBG	z	225	.....	Havana, Cuba.	E
CMCB	ak	150	.....	Havana, Cuba.	E

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KJBS	ae	100	D	San Francisco, Calif.	P—12:01-sunset
WCAZ	ae	50	D	Carthage, Ill.	C
WDZ	ck	100	D	Tuscola, Ill.	C—8:00-4:00
WTAM	ck	50000	R	Cleveland, Ohio.	E—6:30-1:00
XEG	z	500	1075	Mexico City, D. F.	C—(Mail returned)

## 1080 kilocycles 277.6 meters

VOKW	z	30	1085	St. John's, Nfld.	L—Noon-2:00
WBT	ae	25000	CU	Charlotte, N. C.	E—7:00-mid.
WCBD	ae	5000	1Dn	Zion, Ill.	C—7:30-10:30; 1:30-sunset
WMBI	ae	5000	1Dn	Chicago, Ill.	C—7:00-7:30; 10:30-1:30; 3:00-4:00
XEFG	ak	500	1085	Mexico City, D. F.	C—10:30-4:00; 7:00-mid.

## 1090 kilocycles 275.1 meters

KMOX	ak	50000	C	St. Louis, Mo.	C—6:30-12:30
XEAT	z	100	.....	Mexico City, D. F.	(Ail mail returned)

## 1100 kilocycles 272.6 meters

CMCU	ak	500	.....	Havana, Cuba.	E—Noon-6:00
CRVC	ak	500	F	Vancouver, B. C.	P—10:00-1:00; 5:30-11:00
KGDM	ak	250	D	Stockton, Calif.	P—6:00-6:30
TIRCA	ak	500	.....	San Jose, C. R.	C—11:00-1:00 5:00-10:30
WLWL	ae	5000	1	New York, N. Y.	E—6:00-8:00
WPG	ak	5000	1C	Atlantic City, N. J.	E—9:00-6:00; 8:00-1:00

## 1110 kilocycles 270.1 meters

KSOO	ae	1000	Dn (2.5)	Sioux Falls, S. D.	C—6:00-6:30
WRVA	ae	5000	N	Richmond, Va.	E—7:00-mid.
XENT	ak	150000	1115	Nuevo Laredo, Tams.	C—6:00-8:00; 10:00-2:00; 5:00-10:00

KCYS.  
1160

## 1120 kilocycles 267.7 meters

CHGS	ae	100	F	Summerside, P. E. I.	A—7:30-8:45; 10:30-2:00; 4:30-7:30; 9:00-11:00
CHLP	z	100	.....	Montreal, Que.	E—9:00-mid.
CKOC	ae	1000	F	Hamilton, Ont.	E—7:45-11:30
CMHJ	ae	60	1125	Cienfuegos, Cuba.	E—11:00-2:00; 6:00-9:00
KFIO	ae	100	D	Spokane, Wash.	P—7:00-sunset
KFSG	ag	500	a	Los Angeles, Calif.	P—6:30-7:15; 7:30-mid.
KRKC	ag	500	a	Los Angeles, Calif.	P—7:45-7:30
KRSC	ak	100	D	Seattle, Wash.	P—6:45-6:30
KTRH	z	1000	2C	Houston, Texas.	C—6:30-11:30
WDEL	ak	250	(5)A	Wilmington, Del.	E—9:00-10:00
WHAD	ak	250	1C	Milwaukee, Wis.	C—9:30-10:15; 3:00-4:00; 8:30-9:30
WISN	ak	250	1	Milwaukee, Wis.	C
WTAW	ae	500	2	College Station, Texas.	C—12:30-1:00; 8:00-9:00

DIAL

## 1130 kilocycles 265.3 meters

KSL	ae	50000	C	Salt Lake City, Utah.	M—6:45-mid.
WJJD	ae	20000	Dn	Chicago, Ill.	C—6:30-10:00
WOV	ag	1000	D	New York, N. Y.	E—8:00-6:00
XEH	ak	250	1132	Monterrey, N. L.	C—8:00-1:30; 5:00-10:00

## 1140 kilocycles 263.0 meters

CMBJ	z	500	.....	Havana, Cuba.	E—8:00-11:00; 7:00-11:00
CMBW	ak	600	.....	Havana, Cuba.	E
KVOO	ae	5000	1N	Tulsa, Okla.	C—6:30-7:00; 9:00-mid.
WAPI	ae	5000	1N	Birmingham, Ala.	C—6:00-9:00

## 1150 kilocycles 260.7 meters

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

## 1160 kilocycles 258.5 meters

WOWO	ae	10000	1C	Fort Wayne, Ind.	C—8:30-5:45; 7:30-mid.
WVVA	ae	5000	1C	Wheeling, W. Va.	E—6:30-8:30

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## 1170 kilocycles 256.3 meters

CMJE	z	50	1175	Camaguey, Cuba.	E.
WCAU	ae	50000	C	Philadelphia, Pa.	E-8:00-1:00

## 1180 kilocycles 254.1 meters

CMBN	ak	150	1185	Havana, Cuba.	E
CMCJ	ak	500	1185	Havana, Cuba.	E-Noon-2:00; 4:00-6:00; 7:00-10:00
HIJK	z	15000	.....	Santo Domingo, D. R.	
KEX	ak	5000	2N	Portland, Ore.	P-7:00-4:45; 8:00-mid.
KOB	ae	10000	2	Albuquerque, N. M.	M-Noon-1:00; 5:00-9:00
WDGY	ak	1000	Dn	Minneapolis, Minn.	C-6:30-8:15
WINS	ae	500	.....	New York, N. Y.	E-6:00-7:00
WMAZ	ak	500	.....	Macon, Ga.	E-7:30-3:00; 5:00-8:15
XETA	z	250	.....	Mexico City, D. F.	

## 1190 kilocycles 252.0 meters

HIJ	z	15	1195	Santo Domingo, D. R.	E-12:30-2:30; 6:30-8:30
VE9EK	ak	10	1195	Montmagny, Que.	E
VONF	ak	400	1195	St. John's, Nfld.	L-Noon-2:00; 6:00-9:00
WOAI	ae	50000	N	San Antonio, Texas.	C-6:30-11:30
WSAZ	ak	1000	.....	Huntington, W. Va.	E-8:00-8:00

## 1200 kilocycles 249.9 meters

CHAB	ak	25	F	Moose Jaw, Sask.	M-5:30-9:00
CKOV	ak	100	F	Kelowna, B. C.	P
CKTB	ae	100	G	St. Catharines, Ont.	E
CMGB	z	30	1205	Matanzas, Cuba.	E
CKBTM	ak	100	D	Paragould, Ark.	C-7:30-1:30; 2:30-5:30
KERN	ak	100	CT	Bakersfield, Calif.	P-7:00-mid.
KFJB	ak	100	(.25)	Marshalltown, Iowa.	C-6:00-9:00; noon-3:00; 6:00-9:00
KFXD	ae	100	.....	Nampa, Idaho.	M-7:00-9:00
KFXJ	ak	100	.....	Grand Junction, Colo.	M
KGDE	ak	100	(.25)	Fergus Falls, Minn.	C-7:00-9:00
KG EK	ak	100	.....	Yuma, Colo.	M-11:30-1:30
KGFT	ae	100	.....	Los Angeles, Calif.	P-24 hours
KGHI	ak	100	(.25)	Little Rock, Ark.	C-7:00-1:00; 4:00-10:00
KGVO	ak	100	.....	Missoula, Mont.	M-8:00-8:30
KMLB	ak	100	.....	Monroe, La.	C
KSUN	ae	100	D	Lowell, Ariz.	M-Sunrise-sunset
KVOS	ak	100	.....	Bellingham, Wash.	P-7:00-10:00
KWG	ae	100	CT	Stockton, Calif.	P-7:00-mid.
WABI	ak	100	.....	Bangor, Maine.	E-9:00-2:00; 6:00-10:00
WBEX	ak	100	1	New Orleans, La.	C-Noon-5:00; 8:00-11:00
WBZ	ak	100	.....	Ponca City, Okla.	C-6:30-9:00
WBHS	z	100	4	Huntsville, Ala.	C
WCAT	ak	100	D	Rapid City, S. D.	C-12:30-1:30
WCAX	ak	100	A	Burlington, Vt.	E-Noon-1:00
WCLO	ak	100	.....	Janesville, Wis.	C-7:30-2:00; 5:00-8:30
WFAM	ak	100	8C	South Bend, Ind.	C-6:30-mid.
WFBC	ak	100	4 (.25)	Greenville, S. C.	E-7:30-2:30; 5:30-10:30
WFBE	ak	100	(.25)	Cincinnati, Ohio.	E-7:00-11:30
WHBC	ak	100	2	Canton, Ohio.	E-7:00-9:00; noon-3:00; 6:00-9:00
WHBY	ak	100	.....	Green Bay, Wis.	C-7:30-9:45
WBX	ae	100	(.3)	Utica, N. Y.	E-8:00-11:00
WIL	ak	100	5 (.25)	St. Louis, Mo.	C-7:00-mid.
WJBC	ae	100	6	LaSalle, Ill.	C-8:00-9:00; 10:00-12:30; 3:00-6:30
WJBL	ae	100	6	Decatur, Ill.	C-6:30-8:00; 9:00-10:00; 12:30-3:00; 6:30-10:00
WJBW	ak	100	1	New Orleans, La.	C-8:00-noon; 5:00-8:00
WKBO	ak	100	3	Harrisburg, Pa.	E-7:00-10:00; 2:00-5:00; 8:00-11:00
WKJC	ae	100	3	Lancaster, Pa.	E-11:00-3:00; 6:00-9:00
WLAP	ae	100	(.25)	Louisville, Ky.	C-7:30-11:30
WNBO	ae	100	2	Silverhaven, Pa.	E-9:00-noon; 3:00-6:00; 9:00-mid.
WNBW	z	10	(.1)	Carbondale, Pa.	E
WPHR	ak	100	(.25)	Petersburg, Va.	E-8:00-5:00; 6:00-9:00
WRBL	z	100	.....	Columbus, Ga.	C-7:00-11:00
WVAE	ae	100	8	Hammond, Ind.	C-7:00-8:30; 11:00-1:00; 4:00-7:00; 8:00-mid.
YV3BC	ak	1000	.....	Caracas, Venz.	L-11:00-2:00; 5:00-10:30
10-AK	ak	15	.....	Stratford, Ont.	E-Noon-1:00; 5:30-7:00
10-BI	ak	25	.....	Prince Albert, Sask.	M
10-BP	ak	15	.....	Wingham, Ont.	E-7:15-9:30
10-BQ	ak	5	.....	Brantford, Ont.	E-11:00-8:00
10-BU	z	15	.....	Canora, Sask.	C

## 1210 kilocycles 247.8 meters

CFBO	z	100	.....	St. John, N. B.	A
CFCO	ak	100	FL	Chatham, Ont.	E-7:15-10:00

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With Thursday's Time on the Air

CHNC	ak	100	PF	New Carlisle, Que.	A-1:00-mid.
CJOR	ak	500	.....	Vancouver, B. C.	P-7:30-10:30
CKCH	z	100	.....	Hull, Que.	E
CKMC	ak	100	.....	Cobalt, Ont.	E
KASA	ak	100	.....	Elk City, Okla.	C-6:30-1:30; 5:00-7:00
KDLR	ak	100	.....	Devils Lake, N. D.	C-8:00-2:15; 6:00-8:00
KFIJ	ak	100	.....	Kiamath Falls, Ore.	P-8:30-9:00
KFOR	ak	100	(.25)	Lincoln, Neb.	C-7:00-10:00
KFPW	ak	100	.....	Fort Smith, Ark.	C-7:00-2:00; 5:00-10:00
KFVS	ae	100	6	Cape Girardeau, Mo.	C-9:00-noon; 4:00-7:30; 9:00-mid.
KFXM	ak	100	9	San Bernardino, Calif.	P-6:00-mid.
KGCR	ak	100	.....	Watertown, S. D.	C
KGY	ak	100	.....	Olympia, Wash.	P-7:00-7:00
KIEM	ak	100	.....	Eureka, Calif.	P-7:45-sunset
KPPC	ak	50	9	Pasadena, Calif.	P-Silent
KWEA	z	100	.....	Shreveport, La.	C
KWV	z	100	.....	Hilo, Hawaii.	L
WALR	ae	100	.....	Zanesville, Ohio.	E
WBAX	ae	100	1	Wilkes Barre, Pa.	E
WBBL	ak	100	7S	Richmond Va.	E-Silent
WBBS	ak	100	2	Springfield, Ill.	C-11:15-3:00; 6:45-9:00
WCRW	ae	100	4	Chicago, Ill.	C-11:00-2:00; 5:00-7:00
WEBQ	ae	100	6	Harrisburg, Ill.	C-6:00-9:00; noon-4:00; 7:30-9:00
WEDC	ae	100	4	Chicago, Ill.	C-8:30-10:00; 3:30-5:00; 7:00-8:00; 10:00-11:00; mid.-4:00
WFAS	ak	100	3A	White Plains, N. Y.	E-1:00-5:00; 9:00-mid.
WGBB	ae	100	3	Freeport, N. Y.	E-7:00-9:00
WGCM	ae	100	(.25)	Mississippi City, Miss.	C-Silent until Dec. 29
WGNV	ak	100	.....	Chester, N. Y.	E
WHBF	ak	100	.....	Rock Island, Ill.	C-7:30-10:00
WHBU	ah	100	.....	Anderson, Ind.	C-7:00-7:15
WHET	ak	100	D	Troy, Ala.	C-9:00-sunset
WIBU	a	100	.....	Poynette, Wis.	C
WJBI	ak	100	3A	Red Bank, N. J.	E-9:00-11:00; 5:00-7:00
WJBY	ak	100	.....	Gadsden, Ala.	C-9:00-9:00
WJEF	ah	100	D	Hagerstown, Md.	E-7:00-1:00; 4:00-7:45
WJW	ak	100	.....	Akron, Ohio.	E-9:00-11:30
WKFI	ak	100	Y	Greenville, Miss.	C-7:00-7:00
WKOK	ak	100	1P	Sunbury, Pa.	E
WMBG	ak	100	7C	Richmond, Va.	E-7:00-mid.
WOC	ak	50	.....	Jamestown, N. Y.	E-Noon-mid.
WOMT	ae	100	.....	Manitowoc, Wis.	C
WPRO	ak	100	A	Providence, R. I.	E-9:00-2:00; 4:00-11:15
WQDX	ae	100	.....	Thomasville, Ga.	E-8:00-9:00
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-8:00-mid.
WSIX	ak	100	.....	Springfield, Tenn.	C-6:00-4:00; 6:00-9:00
WSOC	ae	100	N	Charlotte, N. C.	E
WTAX	ae	100	2	Springfield, Ill.	C
XEX	z	500	.....	Mexico City, D. F.	(All mail returned)

KCYS.  
1240

DIAL

## 1220 kilocycles 245.8 meters

CMHK	ak	50	122S	Cruces, Cuba.	E-10:00-11:30
KFKU	ae	500	A	Lawrence Kans.	C-2:30-3:00; 6:00-6:15
KTW	ak	1000	S2	Seattle, Wash.	P-8:00-10:00
KWSC	ae	1000	2(2)	Pullman, Wash.	P-Noon-2:30; 4:30-8:00
WCAD	ak	500	D	Canton, N. Y.	E-12:30-1:30; 3:00-4:00
WCAE	ae	1000	R	Pittsburgh, Pa.	E-6:45-1:00
WDAE	ae	1000	CW	Tampa, Fla.	E-8:00-mid.
WREN	ak	1000	Ba	Lawrence, Kas.	C-7:00-mid.

## 1230 kilocycles 243.8 meters

CFQC	z	500	.....	Saskatoon, Sask.	C
CMBY	z	250	2	Havana, Cuba.	E
CMCA	z	150	2	Havana, Cuba.	E
KGGM	ak	250	(.5)	Albuquerque, N. M.	M-6:00-noon; 4:00-8:00
KYA	ae	1000	N	San Francisco, Calif.	P-7:30-mid.
WFBM	ae	1000	1C	Indianapolis, Ind.	C-7:30-10:15; noon-3:00; 5:30-11:30
WNAC	ak	1000	CH	Boston, Mass.	E-6:30-1:00
WSBT	ak	500	1C	South Bend, Ind.	C-6:30-mid.

## 1240 kilocycles 241.8 meters

CMAB	z	20	1249	Pinar del Rio, Cuba.	E
CMJN	z	50	.....	Carnaguey, Cuba.	E
KGCU	ak	250	1	Mandan, N. D.	M-Noon-5:00; 6:45-9:00
KLPM	ak	250	1	Minot, N. D.	C-7:00-1:00; 6:00-7:45
KLAT	ak	1000	C	Fort Worth, Texas.	C-7:00-mid.

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With Thursday's Time on the Air

KTFI	ae	1000	.....	Twin Falls, Idaho.	M—6:00-mid.
WKAQ	ae	1000	.....	San Juan, P. R.	A—12:15-3:15; 6:30-10:00
WXYZ	ak	1000	K	Detroit, Mich.	E—7:30-mid.

## 1250 kilocycles · 239.9 meters

KFOK	ae	1000	.....	Long Beach, Calif.	P—6:00-mid.
WAAM	ae	1000	1A (2.5)	Newark, N. J.	E—7:00-9:00; 10:00-noon; 2:00-4:30; 6:00-9:00
WCAL	ah	1000	2	Northfield, Minn.	C—9:45-10:15; 8:00-10:00
WDSU	ak	1000	C	New Orleans, La.	C—7:00-11:45
WGCP	ak	250	1	Newark, N. J.	E—2:00-5:00; 8:00-10:00
WLB	ak	1000	2	Minneapolis, Minn.	C—8:00-9:00
WODA	z	1000	1A (2.5)	Paterson, N. J.	E
WRHM	ak	1000	2	Minneapolis, Minn.	C—6:15-9:45; 10:35-8:00; 9:00-mid.
XEFA	z	500	.....	Mexico City, D. F.	C

## 1260 kilocycles 238.0 meters

KOIL	ak	1000	B	Council Bluffs, Iowa.	C—6:00-mid.
KRGV	ae	500	1	Harlingen, Texas.	C—7:00-9:30; 12:30-3:30
KUOA	ak	1000	.....	Fayetteville, Ark.	C—7:00-6:30
KVOA	ak	500	.....	Tucson, Ariz.	M—6:00-9:00; noon-3:00; 6:00-9:00
KWJG	z	500	1	Brownsville, Texas.	C
LLBW	ae	500	C(1)	Erie, Pa.	E—8:00-1:00
WNBX	ak	250	D	Springfield, Vt.	E—7:30-sunset
WTOC	ae	500	C	Savannah, Ga.	E—7:00-1:00
XEFI	ak	250	.....	Chihuahua, Chih.	C—1:00-3:00; 8:00-10:30

## 1270 kilocycles 236.1 meters

CMBC	ae	150	1	Havana, Cuba.	E
CMCP	z	150	1	Havana, Cuba.	E
KGCA	ak	100	2D	Decorah, Iowa.	C—8:30-9:45; 10:45-11:30; 12:30-2:30
KOL	ae	1000	CT	Seattle, Wash.	P—6:45-mid.
KVOR	ae	1000	C	Colorado Springs, Colo.	M—7:00-11:00
KWLC	ak	100	2D	Decorah, Iowa.	C—7:30-8:30; 9:45-10:45; 11:30-12:30; 2:30-3:30
WASH	ak	500	Ka	Grand Rapids, Mich.	E—7:00-mid.
WFBR	ae	500	R	Baltimore, Md.	E—7:10-1:00
WJDX	ae	1000	N	Jackson, Miss.	C—7:00-11:00
WOOD	ak	500	Ka	Grand Rapids, Mich.	E—7:00-mid.

## 1280 kilocycles 234.2 meters

CMJI	ak	45	.....	Ciego de Avila, Cuba.	E
KFBB	ae	1000	(2.5)	Great Falls, Mont.	M—8:00-3:00; 5:00-10:00
WCAM	ae	500	1A	Camden, N. J.	E—2:00-5:00
WCAP	ae	500	1A	Asbury Park, N. J.	E—9:00-1:00; 8:00-mid.
WDOD	ae	1000	C(2.5)	Chattanooga, Tenn.	C—7:00-11:00
WIBA	ae	500	N(1)	Madison, Wis.	C—7:30-mid.
WORC	ak	500	CH	Worcester, Mass.	E—8:00-mid.
WRR	ak	500	C	Dallas, Texas.	C—7:00-11:00
WTNJ	ak	500	1A	Trenton, N. J.	E—1:00-2:00; 5:00-8:00
XEFW	ak	70	.....	Tampico, Tams.	E—8:00-10:00; noon-2:00; 5:00-6:00; 7:00-10

## 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
KLCN	z	100	D	Blytheville, Ark.	C
KTSA	ak	1000	C	San Antonio, Texas.	C—7:00-mid.
WEBC	ae	1000	N(2.5)	Superior, Wis.	C—7:00-mid.
WJAS	ak	1000	C(2.5)	Pittsburgh, Pa.	E—7:30-12:30
WNBZ	z	50	D	Saranac Lake, N. Y.	E
XEAC	z	100	1295	San Luis Potosi, S. L. P.	
XFB	ak	1000	.....	Jalapa, Ver.	C—8:00-9:00; 1:00-2:30; 8:00-11:30

## 1300 kilocycles 230.6 meters

CMKJ	z	20	.....	Guantanamo, Cuba.	E
KALE	ak	500	3CT	Portland, Ore.	P—7:00-10:30; 2:30-5:00; 6:00-7:00; 8:00-11:00
KFAC	ae	1000	.....	Los Angeles, Calif.	P—7:00-mid.
KFH	ak	1000	C2	Wichita, Kans.	C—7:8:30; 9:11; 11:30-2; 3-9; 10-11
KFJR	ag	500	3	Portland, Ore.	P—10:30-2:30; 5:00-6:00; 7:00-8:00
WBRR	aej	1000	1	Brooklyn, N. Y.	E—6:00-7:00; 10:00-noon; 6:00-8:00
WEVD	ak	500	1	New York, N. Y.	E—4:15-6:00
WFAB	ae	1000	1	New York, N. Y.	E—9:00-10:00; noon-3:00; 9:00-10:00
WHAZ	ae	500	1	Troy, N. Y.	E—Silent
WIOD	ae	1000	N	Miami, Fla.	E—7:15-mid.
WOQ	ae	1000	2	Kansas City, Mo.	C—6-7; 8:35-9:05; 11-11:30; 2-3; 9-10; 11-mid.



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1310 kilocycles 228.9 meters

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CFJC	ak	100	FLE	Kamloops, B. C.	P-7:30-10:30; noon-2:00; 6:00-7:30
CHCK	ak	100	.....	Charlottetown, P. E. I.	A-Noon-1:30
KCKV	ak	50	.....	Quebec, Que.	E-Noon-2:00; 6:30-11:00
KCRJ	ak	100	D	Jerome, Ariz.	M-7:30-9:30; noon-1:00; 4:30-6:00
KFBK	ak	100	C	Sacramento, Calif.	P-7:00-11:00
KFGQ	ak	100	7	Boone, Iowa.	C
KFPL	ak	100	.....	Dublin, Texas.	C-6:30-8:30 9:00-3:15; 7:00-10:45
KFPFM	ae	15	.....	Greenville, Texas.	C-7:45-9:00; 1:00-2:45; 6:00-9:00
KFXX	ak	100	(.25)	Oklahoma City, Okla.	C-7:30-2:00; 4:30-11:00
KFYO	ak	100	(.25)	Lubbock, Texas.	C-7:00-2:00; 4:00-10:00
KGBX	ae	100	.....	Springfield, Mo.	C
KGCX	ak	100	(.25)	Wolf Point, Mont.	M-7:30-9:00; 11:30-3:00; 6:00-7:00
KGEZ	aj	100	.....	Kalispell, Mont.	M-8:00-9:00
KGFW	ak	100	.....	Kearney, Neb.	C-7:00-9:00
KIFH	z	100	.....	Juneau, Alaska.	L
KIT	ak	100	.....	Yakima, Wash.	P-7:00-11:00
KMED	ck	100	.....	Medford, Ore.	P-8:00-8:00
KRMD	ak	100	.....	Shreveport, La.	C-7:00-1:00; 5:00-8:00
KTSM	ak	100	a	El Paso, Texas.	M-7:00-1:30; 3:00-10:00
KXRO	ak	100	.....	Aberdeen Wash.	P-7:30-10:00
WABL	ak	100	.....	Laurel, Miss.	C-7:00-10:00; 11:00-2:00; 4:00-7:00
WBML	ae	100	.....	Marquette, Mich.	C-9:30-1:15; 5:00-7:00
WBOW	ak	100	.....	Terre Haute, Ind.	C-7:00-11:00
WBRE	ak	100	.....	Wilkes Barre, Pa.	E-8:00-11:30
WCLS	ae	100	b	Joliet, Ill.	C-Silent
WDAH	ck	100	Sa	El Paso, Texas.	M-Silent
WEBR	aej	100	Q (.25)	Buffalo, N. Y.	E-7:00-1:00
WEXL	ak	50	.....	Royal Oak, Mich.	E-7:30-5:00
WFBG	ae	100	3	Altoona, Pa.	E-10:30-4:30; 7:00-10:00
WFDF	ak	100	K	Flint, Mich.	E-7:00-mid
WGAL	ae	100	5	Lancaster, Pa.	E-9:30-2:30; 4:30-6:00
WGH	ae	100	.....	Newport News, Va.	E-7:00-1:00; 5:00-11:00
WHAT	ak	100	4	Philadelphia, Pa.	E-9:00-11:00; 1:00-2:00
WIAT	ak	100	7	Ottumwa, Iowa.	C
WJAC	ae	100	3	Johnstown, Pa.	E-9:00-10:30; 4:30-6:15
WKBB	ae	100	b	E. Dubuque, Ill.	C
WKBC	ak	100	.....	Birmingham, Ala.	C-7:00-10:00
WLBC	ak	100	6	Muncie, Ind.	C-7:00-10:00
WMBH	ak	100	.....	Auburn, N. Y.	E-9:00-9:00
WNBH	ae	100	(.25) A	New Bedford, Mass.	E-8:00-2:00; 4:00-10:00
WOL	ae	100	A	Washington, D. C.	E-7:00-1:00; 3:00-9:00
WRAW	ak	100	5	Reading, Pa.	E-7:00-9:30; 6:00-mid.
WROL	ak	100	.....	Knoxville, Tenn.	C-7:00-1:00; 4:00-11:00
WSAJ	ae	100	.....	Grove City, Pa.	E-7:15-8:15
WSJS	ak	100	C	Winston-Salem, N. C.	E-7:45-mid.
WTEL	ah	100	4	Philadelphia, Pa.	E-7:00-9:00; 11:00-1:00; 5:00-mid.
WTJS	ak	100	(.25)	Jackson, Tenn.	C-7:00-2:00; 4:00-10:00
WTRC	ak	50	6 (.1)	Elkhart, Ind.	C-6:00-7:30
XEFB	ak	100	1315	Monterrey, N. L.	C-11:00-2:00; 6:00-11:00
XEI	ak	250	.....	Morelia, Mich.	C-2:00-3:30; 9:00-10:00

1320 kilocycles 227.1 meters

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CMCY	ak	500	1325	Havana, Cuba.	E
KGHF	ak	250	(.5)	Pueblo, Colo.	M-6:30-9:30
KGMB	ak	250	C	Honolulu, T. H.	L-6:00-11:00
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.

KCY5.

1340

DIAL

1330 kilocycles 225.4 meters

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KGB	agj	1000	CT	San Diego, Calif.	P-7:00-1:00
KMO	ak	250	.....	Tacoma, Wash.	P-6:45-11:00
KSCJ	aj	1000	1C (.2.5)	Sioux City, Iowa.	C-7:30-11:00
WDRC	ae	1000	CH	Hartford, Conn.	E-8:00-mid.
WSAI	ak	1000	R (.2.5)	Cincinnati, Ohio.	E-8:00-mid.
WTAQ	ae	1000	1C	Eau Claire, Wis.	C-7:00-8:00
XEQ	z	500	.....	Mexico City, D. F.	

1340 kilocycles 223.7 meters

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KFPY	ak	1000	C	Spokane, Wash.	P-6:45-mid.
KGDY	ak	250	.....	Huron, S. D.	C
KGNO	ak	250	.....	Dodge City, Kans.	C-6:30-9:00
WCOA	ae	500	.....	Pensacola, Fla.	E-9:00-10:00
WLEC	z	250	(.5)	Portland, Maine.	E-(Mail returned)
WSPD	ae	1000	C	Toledo, Ohio.	E-7:00-1:00

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With Thursday's Time on the Air

## 1350 kilocycles 222.1 meters

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KIDO	ak	1000	.....	Boise, Idaho.	M—8:00-mid.
KWK	ak	1000	B	St. Louis, Mo.	C—7:00-mid.
TGW	ak	500	.....	Guatemala City, Gua	L—Noon-1:00; 6:00-7:00; 9:00-11:00
WAWZ	ae	250	1	Zarephath, N. J.	E—6:00-9:00; 5:00-6:30
WBXN	ak	250	1A	New York, N. Y.	E—9:00-11:30
WEHC	ae	500	D	Charlottesville, Va.	E

## 1360 kilocycles 220.4 meters

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CMJP	ak	75	.....	Moron, Cuba.	E—10:00-noon; 8:00-10:00
KGER	ak	1000	.....	Long Beach, Calif.	P—6:00-mid.
KGIR	ak	500	N (1)	Butte, Mont.	M—7:00-mid.
WCSC	ae	500	.....	Charleston, S. C.	E—8:00-10:30; noon-2:00; 7:00-10:00
WFBL	ak	1000	C (2.5)	Syracuse, N. Y.	E—8:00-1:00
WGES	ae	500	.....	Chicago, Ill.	C—5:45-11:00; 5:00-8:00
WQBC	ak	500	.....	Vicksburg, Miss.	C

## 1370 kilocycles 218.8 meters

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CMCN	z	250	1375	Havana, Cuba.	E
CMCR	ak	150	1375	Havana, Cuba.	E—Noon-1:00; 4:00-6:00; 8:00-9:00
CMGE	z	30	1375	Cardenas, Cuba.	E
KCRC	ak	100	2(.25)	Erid, Okla.	C—6:00-9:00; 11:00-2:00; 5:00-7:45; 10:00-mid.
KFBL	ae	50	3	Everett, Wash.	P—9:00-noon; 3:00-6:00; 9:00-mid.
KFJM	ak	100	.....	Grand Forks, N. D.	C—7:00-9:00
KFJZ	ak	100	.....	Fort Worth, Texas.	C—7:00-11:00
KGAR	ae	100	(.25)	Tucson, Ariz.	M—7:00-9:00
KGFG	bk	100	2	Oklahoma City, Okla.	C
KGFL	ak	100	4	Roswell, N. M.	M—6:00-9:30; 2:00-7:30
KGKL	ak	100	.....	San Angelo, Texas.	C—8:00-4:30; 6:00-10:00
KICA	ak	100	4	Clovis, N. M.	M—9:30-2:00; 7:30-9:30
KLUF	z	100	.....	Galveston, Texas.	C
KMAC	ak	100	5	San Antonio, Texas.	C—7:00-8:30; 10:00-11:00; noon-1:30; 4:00-6:00; 7:00-8:00; 10:00-12:30
KONO	ak	100	5	San Antonio, Texas.	C—6:00-7:00; 8:00-10:00; 11:00-noon; 1:30-4:00; 6:00-7:00; 8:00-10:00
KOOS	ae	100	.....	Marshfield, Ore.	P—7:00-9:00
KRE	ak	100	.....	Berkeley, Calif.	P—6:30-9:30; noon-3:00; 6:00-9:00
KSO	ak	100	B(.25)	Des Moines, Iowa.	C—6:30-mid.
KUJ	ak	100	.....	Walla Walla, Wash.	P—6:45-9:00
KVL	ak	100	3	Seattle, Wash.	P—6:00-9:00; noon-3:00; 6:00-9:00; mid.-2:00
KWKC	z	100	.....	Kansas City, Mo.	C
WBTM	ak	100	7	Danville, Va.	E—11:00-1:00; 6:30-10:00
WCBM	ae	100	(.25)A	Baltimore, Md.	E—7:00-mid.
WDAS	ae	100	(.25)	Philadelphia, Pa.	E—9:00-11:00
WGL	ae	100	C	Fort Wayne, Ind.	C—6:30-mid.
WGLC	ak	100	C	Hudson Falls, N. Y.	E—7:30-mid.
WHBD	ak	100	.....	Mount Orab, Ohio.	E—8:00-11:30; noon-9:00
WHBO	ak	100	.....	Memphis, Tenn.	C—7:55-2:00; 4:00-10:30
WHDF	ak	100	(.25)	Calumet, Mich.	E—7:00-9:00; 11:30-1:30; 5:30-8:30
WIBM	ae	100	1K	Jackson, Mich.	E—7:30-9:00
WJBK	ae	50	1	Detroit, Mich.	E—7:00-sunset; 9:00-mid.
WJTL	ae	100	.....	Atlanta, Ga.	E
WLEY	ak	100	(.25)	Lexington, Mass.	E—Noon-3:00; 6:00-9:00
WLVA	ck	100	7	Lynchburg, Va.	E—7:00-11:00; 1:00-6:30
WMBR	ak	100	.....	Tampa, Fla.	E—7:00-9:30
WPFB	ak	100	.....	Hattiesburg, Miss.	C
WQDM	ae	100	D	St. Albans, Vt.	E
WRAC	ak	100	.....	Williamsport, Pa.	E—8:30-3:00; 5:00-10:30
WRAM	ae	100	.....	Wilmington, N. C.	E—7:30-mid.
WRDO	ae	100	.....	Augusta, Maine.	E—9:00-1:00; 4:30-8:30
WRJN	ae	100	.....	Racine, Wis.	C—9:00-2:30; 4:00-10:30
WSVS	ak	50	D	Buffalo, N. Y.	E—8:30-10:00; 2:00-3:00
XEFV	ae	100	.....	Juarez, Chih.	C—9:00-3:00; 5: 11:00
XEFZ	ae	100	.....	Mexico City, D. F.	C

## 1380 kilocycles 217.3 meters

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CMJC	z	150	1382	Camaguey, Cuba.	E
KOH	ak	500	C	Reno, Nev.	P—8:00-10:00
KQV	ak	500	2C	Pittsburgh, Pa.	E—7:00-10:00
TGX	z	75	.....	Guatemala City, Guat.	
WKBH	ae	1000	C	LaCrosse, Wis.	C—7:30-10:00
WSMK	ak	200	2	Dayton, Ohio.	E—7:00-8:00; 10:00-mid.
XETB	z	125	.....	Torreón, Coah.	

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With Thursday's Time on the Air

1390 kilocycles 215.7 meters 

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HIH	ak	15	1395	San Pedro de Macoris, D. R.	L-12:15-2:00; 10:00-11:00
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-7:00-mid.

1400 kilocycles 214.2 meters 

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KLO	ah	500	C	Ogden, Utah.	M-8:30-10:30
KOCW	z	250	(.5)	Tulsa, Okla.	C
VOGY	ak	75	.....	St. John's, Nfld.	L-10:30-11:30; 1:00-2:00; 6:15-8:00
WARD	ak	500	2	Brooklyn, N. Y.	E
WBAA	z	500	1	Lafayette, Ind.	C-Silent
WBBC	ae	500	2	Brooklyn, N. Y.	E-11:30-1:30; 7:30-9:00
WFOX	ak	500	2	Brooklyn, N. Y.	E
WKBF	ak	500	1N	Indianapolis, Ind.	C-6:00-mid.
WLTH	ak	500	2	Brooklyn, N. Y.	E-8:30-11:30; 6:00-7:30

1410 kilocycles 212.6 meters 

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CKFC	ak	50	5	Vancouver, B. C.	P-3:00-4:30
CKMO	z	100	5	Vancouver, B. C.	P
CMCH	ak	50	.....	Havana, Cuba.	E
CMCM	z	15	.....	Havana, Cuba.	E
KFLV	ak	500	4	Rockford, Ill.	C-10:00-12:30; 3:00-6:00; 8:00-10:45
KGRS	ae	1000	1	Amarillo, Texas.	C-6-8; 10-12:30; 3:00-4:30; 6:00-7:30
WAAB	ae	500	CH	Boston, Mass.	E-8:30-mid.
WBCM	ae	500	K	Bay City, Mich.	E-8:00-mid.
WDAG	ae	1000	1	Amarillo, Texas.	C-8-10; 12:30-3:00; 4:30-6:00; 7:30-mid.
WHBL	ae	500	4	Sheboygan, Wis.	C-7:00-10:00; 12:30-3:00; 6:00-8:00
WHIS	ak	250	2	Bluefield, W. Va.	E-7:00-9:00; noon-3:00; 6:00-8:00
WODX	ae	500	3C	Mobile, Ala.	C-7:00-6:15; 7:45-10:30
WRBX	ae	250	2	Roanoke, Va.	E
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-6:00-mid.
KBPS	aj	100	4	Portland, Ore.	P-11:00-12:30; 3:00-5:00
KCMC	ak	100	.....	Texarkana, Ark.	C-7:00-2:00; 4:00-9:00
KFCZ	ak	100	.....	Fond du Lac, Wis.	C-10:00-1:00; 4:00-10:00
KGFF	ak	100	.....	Shawnee, Okla.	C-7:30-3:00; 5:00-9:00
KGGC	ak	100	.....	San Francisco, Calif.	P-9:00-1:00; 4:00-9:00
KGIW	ak	100	1	Alamosa, Colo.	M
KGIX	ak	100	.....	Las Vegas, Nev.	M
KICK	z	100	.....	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-7:45-9:00
KUMA	ak	100	.....	Yuma, Ariz.	M-7:00-9:00; 11:00-2:00; 6:00-10:00
KWCR	ak	100	B(.25)	Cedar Rapids, Iowa.	C-6:30-mid.
KXIL	ae	100	4	Portland, Ore.	P-7:00-1:00
WACO	ak	100	C	Waco, Texas.	C-8:00-2:00; 5:00-10:30
WAGM	ae	100	.....	Presque Isle, Maine.	E-11:00-1:00; 4:00-7:00
WAMC	ae	100	.....	Anniston, Ala.	C-7:00-9:00
WAZL	ak	100	2	Hazleton, Pa.	E-11:00-9:00
WEED	ak	100	D	Greenville, N. C.	E-9:00-6:00
WEHS	ak	100	a	Cicero, Ill.	C-4:00-6:00
WELL	ak	50	.....	Battle Creek, Mich.	E-9:00-9:30
WENC	ak	100	D	Americus, Ga.	C-7:00-6:15
WHDL	ae	100	D	Tupper Lake, N. Y.	E
WHFC	ae	100	a	Cicero, Ill.	C-7:00-1:30; 6:00-9:00; 11:00-1:00
WILM	aj	100	2	Wilmington, Del.	E-7:00-11:00; 2:00-5:00; 9:00-mid.
WJBO	z	100	D	Baton Rouge, La.	C
WJMS	ak	100	.....	Ironwood, Mich.	C-7:30-1:30; 4:30-7:00
WKBI	ak	100	a	Cicero, Ill.	C-1:30-4:00
WLBF	ak	100	.....	Kansas City, Kans.	C-7:00-11:00
WMAS	ak	100	CH(.25)	Springfield, Mass.	E-8:00-mid.
WMBG	ag	100	(.25)	Detroit, Mich.	E-7:30-mid.
WMBH	ak	100	(.25)	Joplin, Mo.	C-7:30-2:00; 6:00-9:30
WNRA	ak	100	D	Muscle Shoals, Ala.	C-7:00-10:00
WPAD	ak	100	.....	Paducah, Ky.	C
WSPA	ae	100	(.25)	Spartanburg, S. C.	E-7:30-2:00; 4:00-9:30
WTBO	ae	100	(.25)	Cumberland, Md.	E-9:00-7:00

KCYS.  
1430  
DIAL

1430 kilocycles 209.7 meters 

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CFCT	ae	50	.....	Victoria, B. C.	P-8:00-12:30; 6:00-8:00; mid.-2:00
KECA	ak	1000	N	Los Angeles, Calif.	P-7:00-11:00
KGNF	ak	500	D	North Platte, Neb.	C-7:00-sunset

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With Thursday's Time on the Air

WBAK	ak	500	1 (1)	Harrisburg, Pa.	E
WCAH	ae	500	1C	Columbus, Ohio.	E—8:00-mid.
WFEA	ae	500	CH	Manchester, N. H.	E—7:30-11:00
WHEC	ae	500	C	Rochester, N. Y.	E
WHP	ak	500	1C(1)	Harrisburg, Pa.	E—8:30-10:30; 11:30-1:30; 2:30-4:00; 4:30-1:00
WNBR	ae	500	.....	Memphis, Tenn.	C—8:00-1:00; 3:00-10:00
WOKO	ae	500	C	Albany, N. Y.	E—7:30-1:00

## 1440 kilocycles 208.2 meters

CMBK	z	15	1445	Havana, Cuba.	E
CMBL	ak	200	1445	Havana, Cuba.	E—Mail returned
KDFN	ak	500	.....	Casper, Wyo.	M—7:30-2:00; 3:30-9:00
KLS	ae	250	D	Oakland, Calif.	P—8:00-sunset
KXYZ	ak	250	.....	Houston, Texas.	C—6:30-1:00; 2:30-11:00
TIFS	z	7.5	1441	Cartago, C. R.	L
WBIG	ae	500	C(1)	Greensboro, N. C.	E—8:00-11:00
WCBA	aj	250	a	Allentown, Pa.	E—7:30-mid.
WMBD	ae	500	3C(1)	Peoria, Ill.	C—6:00-11:00, 8:00-mid.
WSAN	aj	250	a	Allentown, Pa.	E—7:30-mid.
WTAD	ak	500	3	Quincy, Ill.	C—11:00-8:00

## 1450 kilocycles 206.8 meters

CKX	ak	500	F	Brandon, Man.	C
KTBS	ck	1000	N	Shreveport, La.	C—7:00-mid.
TIEP	z	7.5	.....	San Jose, C. R.	L
WGAR	ak	500	B(1)	Cleveland, Ohio.	E—6:00-1:00
WHOM	ae	250	.....	Jersey City, N. J.	E—8:00-mid.
WSAR	ae	250	A	Fall River, Mass.	E—8:00-3:30; 5:00-10:00
WTFI	ak	500	.....	Athens, Ga.	E—8:00-9:00
XEAB	ak	7.5	.....	Neuvo Laredo, Tams.	C—10:00-3:00; 4:00-7:00

## 1460 kilocycles 205.4 meters

KSTP	ae	10000	N (25)	St. Paul, Minn.	C—6:45-12:30
WJSV	ak	10000	C	Washington, D. C.	E—6:30-mid.

## 1470 kilocycles 204.0 meters

KGA	ak	5000	N	Spokane, Wash.	P—6:00-mid.
WLAC	ae	5000	C	Nashville, Tenn.	C—7:00-mid.

## 1480 kilocycles 202.6 meters

KOMA	ak	5000	C	Oklahoma City, Okla.	C—6:30-mid.
WKBW	ae	5000	C	Buffalo, N. Y.	E—10:00-1:00

## 1490 kilocycles 201.2 meters

WCKY	ae	5000	BY	Covington, Ky.	E—7:00-mid.
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## 1500 kilocycles 199.9 meters

CRCS	z	100	.....	Chicoutimi, Que.	E—6:30-11:30
KDB	ak	100	CT	Santa Barbara, Calif.	P—7:30-mid.
KGFI	ak	100	(25)	Corpus Christi, Tex.	C—7:00-3:00; 6:00-10:00
KGFK	ak	100	.....	Moorhead, Minn.	C—8:00-9:00
KGKB	ak	100	.....	Tyler, Texas.	C—8:00-10:00; noon-2:00; 5:00-6:00; 7:30-9:00
KGKY	ck	100	.....	Scottsbluff, Neb.	M—9:00-1:30; 5:30-9:00
KNOW	ak	100	.....	Austin, Texas.	C—7:30-2:00; 4:00-10:00
KPJM	ak	100	.....	Prescott, Ariz.	M—7:00-8:00
KPO	aj	100	.....	Wenatchee, Wash.	P—7:00-10:00
KREG	ak	100	.....	Santa Ana, Calif.	P—9:00-11:00
KXO	al	100	.....	El Centro, Calif.	P—7:00-2:00; 4:00-9:00
WCNW	ak	100	1A	Brooklyn, N. Y.	E—2:00-8:00
WFDW	ak	100	.....	Rome, Ga.	C—7:00-10:00; noon-3:00; 6:00-9:00
WHEF	z	100	P (25)	Kosciusko, Miss.	C
WKBV	z	100	.....	Richmond, Ind.	C
WKBZ	ak	100	.....	Ludington, Mich.	E—9:00-9:00
WKEU	ak	100	.....	LaGrange, Ga.	C—10:00-noon; 3:00-6:00
WMBQ	ae	100	1	Brooklyn, N. Y.	E—9:00-11:00; noon-2:00; 8:00-10:00
WMPG	ak	100	.....	Lapeer, Mich.	E—10:00-2:00; 3:30-6:00
WNBZ	ae	100	.....	Binghamton, N. Y.	E—7:30-10:00
WOPJ	ae	100	.....	Bristol, Tenn.	E—7:00-2:00; 3:00-8:00
WPEN	ck	100	(25)AZ	Philadelphia, Pa.	E—7:30-10:00
WRDW	ae	100	.....	Augusta, Ga.	E
WSYB	ae	100	A	Rutland, Vt.	E—10:00-1:00; 5:00-9:00
WWRL	ak	100	1	Woodside, N. Y.	E—8:00-9:00; 11:00-noon; 10:00-12:30
WWSW	ae	100	(25)	Pittsburgh, Pa.	E—8:00-11:45

## INDEX BY LOCATIONS

Frequency in kilocycles in second column. Night power in watts in third column. Network affiliations in fourth column: C Columbia, R National Red, B National Blue, N National Red and Blue. A Amalgamated. F Canadian.

<b>ALABAMA</b>	<b>Hollywood</b>	<b>WTIC</b> 1060 50000 R	<b>Chicago</b>
<b>Anniston</b>	KFWB 950 1000	<b>Storrs</b>	KYW 1020 10000 N
WAMC 1420 100	KMTR 570 500	WCAC 600 250	WAAF 920 500
<b>Birmingham</b>	KNX 1050 25000	<b>DELAWARE</b>	WBBM 770 25000 C
WAPI 1140 5000 N	<b>Long Beach</b>	<b>Wilmington</b>	WCFL 970 1500 B
WBRC 930 500 C	KFOX 1250 1000	WDEL 1120 250 A	WCRW 1210 100
WKBC 1310 100	KGER 1360 1000	WILM 1420 100	WEDC 1210 100
<b>Gadsden</b>	<b>Los Angeles</b>	<b>DISTRICT OF COLUMBIA</b>	WENR 870 50000 N
WJBY 1210 100	KECA 1430 1000 N	<b>Washington</b>	WGES 1360 500
<b>Huntsville</b>	KFCAC 1300 1000	WJSV 1460 10000 C	WGN 720 25000
WBHS 1200 100	KFI 640 50000 N	WMAL 630 250 B	WJJD 1130 20000
<b>Mobile</b>	KFSG 1120 500	WOL 1310 100 A	WLS 870 50000 N
WODX 1410 500 C	KFVD 1000 250	WRC 950 500 R	WMAQ 670 5000 N
<b>Montgomery</b>	KGFJ 1200 100	<b>FLORIDA</b>	WMBI 1080 5000
WSFA 1410 500 C	KHJ 900 1000 C	<b>Clearwater</b>	WSBC 1210 100
<b>Muscle Shoals</b>	KRRKD 1120 500	WFLA 620 1000 N	<b>Cicero</b>
WNRA 1420 100	KTM 780 500	<b>Gainesville</b>	WEHS 1420 100
<b>Troy</b>	<b>Oakland</b>	WRUF 830 5000	WHFC 1420 100
WHET 1210 100	KLS 1440 250	<b>Jacksonville</b>	WKBI 1420 100
<b>ALASKA</b>	KLX 380 1000	<b>Miami</b>	<b>Decatur</b>
<b>Anchorage</b>	KROW 930 500	WJAX 900 1000 N	WJBL 1200 100
KFOF 600 250	<b>Pasadena</b>	<b>JM</b>	<b>East Dubuque</b>
<b>Jumeau</b>	KPPC 1210 50	WIOD 1300 1000 N	WKBB 1310 100
KIFH 1310 100	<b>Sacramento</b>	WQAM 560 1000 C	<b>Harrisburg</b>
<b>Ketchikan</b>	KFBK 1310 100 C	<b>Orlando</b>	WEBQ 1210 100
KGBU 900 500	<b>San Bernardino</b>	WDBO 580 250 C	<b>Joliet</b>
<b>ARIZONA</b>	KFXM 1210 100	<b>Pensacola</b>	WCLS 1310 100
<b>Jerome</b>	<b>San Diego</b>	WCOA 1340 500	<b>LaSalle</b>
KCRJ 1310 100	KFSD 600 1000 N	<b>St. Petersburg</b>	WJBC 1200 100
<b>Lowell</b>	KGB 1330 1000 C	WSUN 620 1000 N	<b>Peoria</b>
KSUN 1200 100	<b>San Francisco</b>	<b>Tampa</b>	WMBD 1440 500 C
<b>Phoenix</b>	KFRG 610 1000 C	WDAE 1220 1000 C	<b>Quincy</b>
KOY 1390 500	KFWI 930 500	WMBR 1370 100	WTAD 1440 500
KTAR 620 500 N	KGGC 1420 100	<b>GEORGIA</b>	<b>Rockford</b>
<b>Prescott</b>	KGO 790 7500 N	<b>Americus</b>	KFLV 1410 500
KPJM 1500 100	KJBS 1070 100	WENC 1420 100	<b>Rock Island</b>
<b>Tucson</b>	KPO 680 50000 N	<b>Athens</b>	WHBF 1210 100
KGAR 1370 100	KTAB 560 1000	WTFI 1450 500	<b>Springfield</b>
KVOA 1260 500	KYA 1230 1000 N	<b>Atlanta</b>	WCBS 1210 100
<b>Yuma</b>	<b>San Jose</b>	WGST 890 250 C	WTAX 1210 100
KUMA 1420 100	KQW 1010 500	WJTL 1370 100	<b>Tuscola</b>
<b>ARKANSAS</b>	<b>Santa Ana</b>	WSB 740 50000 N	WDZ 1070 100
<b>Blytheville</b>	KREG 1500 100	<b>Augusta</b>	<b>Urbana</b>
KLCN 1290 100	<b>Santa Barbara</b>	WRDW 1500 100	WILL 890 250
<b>Fayetteville</b>	KDB 1500 100 C	<b>Columbus</b>	<b>Zion</b>
KUOA 1260 1000	<b>Stockton</b>	WRBL 1200 100	WCBZ 1080 5000
<b>Fort Smith</b>	KGDM 1100 250	<b>LaGrange</b>	<b>INDIANA</b>
KFPW 1210 100	KWG 1200 100 C	WKEU 1500 100	<b>Anderson</b>
<b>Hot Springs</b>	<b>COLORADO</b>	<b>Macon</b>	WHBU 1210 100
KTHS 1040 10000 N	<b>Alamosa</b>	WMAZ 1180 500	<b>Elkhart</b>
<b>Little Rock</b>	KGIW 1420 100	<b>Rome</b>	WTRC 1310 50
KARK 890 250	<b>Colorado Springs</b>	WFDV 1500 100	<b>Evansville</b>
KGHI 1200 100	KVOR 1270 1000 C	<b>Savannah</b>	WGBF 630 500
KLRA 1390 1000 C	<b>Denver</b>	WTOC 1260 500 C	<b>Fort Wayne</b>
<b>Paragould</b>	KFEL 920 500	<b>Thomasville</b>	WGL 1370 100 C
KBTM 1200 100	KFXF 920 500	WQDX 1210 100	WOWO 1160 10000 C
<b>Texarkana</b>	KLZ 560 1000 C	<b>HAWAII</b>	<b>Gary</b>
KCMC 1420 100	KOA 830 12500 N	<b>Hilo</b>	WIND 560 1000 C
<b>CALIFORNIA</b>	KPOF 880 500	KWFV 1210 100	<b>Hammond</b>
<b>Bakersfield</b>	<b>Grand Junction</b>	<b>Honolulu</b>	WWAE 1200 100
KERN 1200 100 C	KFXJ 1200 100	KGMB 1320 250 C	<b>Indianapolis</b>
<b>Berkeley</b>	<b>Greeley</b>	KGU 750 2500 N	WFBM 1230 1000 C
KRE 1370 100	KFKA 880 500	<b>IDAHO</b>	WKBF 1400 500 N
<b>Beverly Hills</b>	<b>Lamar</b>	<b>KIDO</b> 1350 1000	<b>Muncie</b>
KMPC 710 500	KIDW 1420 100	<b>Idaho Falls</b>	WLBC 1310 100
<b>Burbank</b>	<b>Pueblo</b>	KID 1320 250	<b>Richmond</b>
KELW 780 500	KGHF 1320 250	<b>Nampa</b>	WKBV 1500 100
<b>El Centro</b>	<b>Yuma</b>	KFXD 1200 100	<b>South Bend</b>
KXO 1500 100	KGEK 1200 100	<b>Pocatello</b>	WFAM 1200 100 C
<b>Eureka</b>	<b>CONNECTICUT</b>	KSEI 890 250	WSBT 1230 500 C
KIEM 1210 100	<b>Bridgeport</b>	<b>Twin Falls</b>	<b>Terre Haute</b>
<b>Fresno</b>	WICC 600 250 C	KTFI 1240 1000	WBOW 1310 100
KMJ 580 500 C	<b>Hartford</b>	<b>ILLINOIS</b>	<b>West Lafayette</b>
<b>Glendale</b>	WDRC 1330 1000 C	<b>Carthage</b>	WBAA 1400 500
KIEV 850 100		WCAZ 1070 50	

# INDEX BY LOCATIONS

<b>IOWA</b>		<b>Bangor</b>	WRHM 1250 1000	WOW 590 1000 R
Ames		WABI 1200 100	<b>Moorhead</b>	<b>Scottsbluff</b>
WOI 640 5000		WLBZ 620 500 C	KGFK 1500 100	KGKY 1500 100
<b>Boone</b>		<b>Portland</b>	<b>Northfield</b>	<b>York</b>
KFGQ 1310 100		WCSH 940 1000 R	WCAL 1250 1000	KGBZ 930 500
<b>Carter Lake</b>		WLEC 1340 250	<b>St. Paul</b>	<b>NEVADA</b>
KICK 1420 100		<b>Presque Isle</b>	KSTP 1460 10000 N	<b>Las Vegas</b>
<b>Cedar Rapids</b>		WAGM 1420 100	<b>MISSISSIPPI</b>	KGIX 1420 100
KWCR 1420 100 B		<b>MARYLAND</b>	<b>Greenville</b>	<b>Reno</b>
<b>Council Bluffs</b>		<b>Baltimore</b>	WKFI 1210 100	KOH 1380 500 C
KOIL 1260 1000 B		WBAL 1060 10000 B	<b>Hattiesburg</b>	<b>NEW HAMPSHIRE</b>
<b>Decorah</b>		WCAO 600 250 C	WPFH 1370 100	<b>Manchester</b>
KGCA 1270 100		WCBM 1370 100 A	<b>Jackson</b>	WFEA 1430 500 C
KWLC 1270 100		WFBF 1270 500 R	WJDX 1270 1000 N	<b>Portsmouth</b>
<b>Des Moines</b>		<b>Cumberland</b>	<b>Kosciusko</b>	WHEB 740 250
KSO 1370 100 B		WTBO 1420 100	WHEF 1500 100	<b>NEW JERSEY</b>
WOC- 1000 50000 R		<b>Hagerstown</b>	<b>Laurel</b>	<b>Asbury Park</b>
WHO		WWEJ 1210 100	WAML 1310 100	WCAP 1280 500 A
<b>Iowa City</b>		<b>MASSACHUSETTS</b>	<b>Meridian</b>	<b>Atlantic City</b>
WSUI 880 500		<b>Babson Park</b>	WCOC 880 500	WPG 1100 5000 C
<b>Marshalltown</b>		WBSO 920 500	<b>Mississippi City</b>	<b>Camden</b>
KFJB 1200 100		<b>Boston</b>	WGCM 1210 100	WCAM 1280 500 A
<b>Ottumwa</b>		WAAB 1410 500 C	<b>Tupelo</b>	<b>Jersey City</b>
WIAS 1310 100		WBZ 990 25000 B	WJEM 990 500	WAAJ 940 300
<b>Shenandoah</b>		WEEI 590 1000 R	<b>Vicksburg</b>	WHOM 1450 250
KFNF 890 500		WHDH 830 1000 A	WQBC 1360 500	<b>Newark</b>
KMA 930 500		WNAC 1230 1000 C	<b>MISSOURI</b>	WAAM 1256 1000
<b>Sioux City</b>		<b>Fall River</b>	<b>Cape Girardeau</b>	WGCP 1250 250
KSCJ 1336 1000 C		WSAR 1450 250 A	KFVS 1210 100	WOR 710 5000
<b>Waterloo</b>		<b>Lexington</b>	<b>Columbia</b>	<b>Paterson</b>
WMT 600 500 C		WLEY 1370 100	KFRU 630 500	WODA 1250 1000
<b>KANSAS</b>		<b>New Bedford</b>	<b>Jefferson City</b>	<b>Red Bank</b>
<b>Ablene</b>		WNBH 1310 100 A	WOS 630 500	WJBI 1210 100 A
KFBI 1050 5000		<b>Springfield</b>	<b>Joplin</b>	<b>Trenton</b>
<b>Coffeyville</b>		WBZA 990 1000 B	WMBH 1420 100	WTNJ 1280 500 A
KGGF 1010 500		WMAS 1420 100 C	<b>Kansas City</b>	<b>Zarephath</b>
<b>Dodge City</b>		<b>Worcester</b>	KMBC 950 1000 C	WAWZ 1350 250
KGNO 1340 250		WORC 1280 500 C	KWKK 1370 100	<b>NEW MEXICO</b>
<b>Kansas City</b>		WTAG 580 250 R	WDAF 610 1000 R	<b>Albuquerque</b>
WLBF 1420 100		<b>MICHIGAN</b>	WHB 860 500	KGGM 1230 250
<b>Lawrence</b>		<b>Battle Creek</b>	WQO 1300 1000	KOB 1180 10000
KFKU 1220 500		WELL 1420 50	<b>St. Joseph</b>	<b>Clovis</b>
WREN 1220 1000 B		<b>Bay City</b>	KFEQ 680 2500	KICA 1370 100
<b>Manhattan</b>		WBCM 1410 500	<b>St. Louis</b>	<b>Roswell</b>
KSAC 580 500		<b>Calumet</b>	KFUO 650 500	KGFL 1370 100
<b>Topeka</b>		WHDF 1370 100	KMOX 1090 50000 C	<b>NEW YORK</b>
WIBW 580 1000 C		<b>Detroit</b>	KSD 650 500 R	<b>Albany</b>
<b>Wichita</b>		WJBK 1370 50	KWK 1350 1000 B	WOKO 1430 500 C
KFH 1300 1000 C		WJR 750 10000 B	WEW 760 1000	<b>Auburn</b>
<b>KENTUCKY</b>		WMBC 1420 100	WIL 1200 100	WMB0 1310 100
<b>Covington</b>		WWJ 920 1000 R	<b>Springfield</b>	<b>Binghamton</b>
WCKY 1490 5000 B		WXYZ 1240 1000	KCBX 1310 100	WNBK 1500 100
<b>Louisville</b>		<b>East Lansing</b>	KGIZ 560 500	<b>Brooklyn</b>
WFIW 940 1000		WKAR 1040 1000	<b>MONTANA</b>	WARD 1400 500
WHAS 820 25000 C		<b>Filnt</b>	<b>Billings</b>	WBBC 1400 500
WLAP 1200 100		WFDF 1310 100	KGHL 950 1000 N	WBBR 1300 1000
<b>Paducah</b>		<b>Grand Rapids</b>	<b>Butte</b>	WCNW 1500 100-A
WPAD 1420 100		WASH 1270 500	KGIR 1360 500 N	WFOX 1400 500
<b>LOUISIANA</b>		WOOD 1270 500	<b>Great Falls</b>	WLTH 1400 500
<b>Baton Rouge</b>		<b>Ironwood</b>	KFBB 1280 1000	WMBQ 1500 100
WJBO 1420 100		WJMS 1420 100	<b>KallsPELL</b>	<b>Buffalo</b>
<b>Monroe</b>		<b>Jackson</b>	KGEZ 1310 100	WBEN 900 1000 R
KMLB 1200 100		WJBM 1370 100	<b>Missoula</b>	WEBR 1310 100
<b>New Orleans</b>		<b>Kalamazoo</b>	KGVO 1200 100	WGR 550 1000 C
WBBX 1200 100		WKZO 590 1000	<b>Wolf Point</b>	WKBW 1480 5000 C
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WJBW 1200 100		WMPG 1500 100	<b>NEBRASKA</b>	<b>Canton</b>
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WWL 850 10000		WKBZ 1500 100	<b>Kearney</b>	<b>Chester</b>
<b>Shreveport</b>		<b>Marquette</b>	KGFW 1310 100	WGNV 1210 100
KRMD 1310 100		WBOE 1310 100	<b>Lincoln</b>	<b>Elmira</b>
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KWEA 1210 100		WEXL 1310 50	KFOR 1210 100	<b>Freeport</b>
KWKH 850 10000		<b>MINNESOTA</b>	<b>Norfolk</b>	WGBE 1210 100
<b>MAINE</b>		<b>Fergus Falls</b>	WJAG 1060 1000	<b>Hudson Falls</b>
<b>Augusta</b>		WCCO 810 50000 C	<b>North Platte</b>	WGLC 1370 100 C
WRDU 1370 100		WDGY 1180 1000	KGNF 1430 500	<b>Jamestown</b>
		WLB 1250 1000	<b>Omaha</b>	WOCL 1210 50
			WAAW 660 500	

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WFAB 1300 1000	<b>Columbus</b>	<b>Silverhaven</b>	WHP 610 500 C	<b>Memphis</b>	WROL 1310 100
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WHNS 1180 500	WCAH 1430 500 C	<b>Wilkes-Barre</b>	WPN 1500 100 A	<b>Nashville</b>	WMC 780 500 N
WJZ 760 50000 B	WOSU 570 750	<b>York</b>	WRAX 1020 250	<b>Nashville</b>	WNBR 1430 500
WLWL 1100 5000	WSEN 1210 100	<b>York</b>	WTEL 1310 100	<b>Nashville</b>	WREC 600 500 C
WMCA 570 500	<b>Dayton</b>	<b>Pittsburgh</b>	KDKA 980 50000 B	<b>Nashville</b>	WLAC 1470 5000 C
WNYC 810 500	WSMK 1380 200	<b>Reading</b>	KQV 1380 500 C	<b>Nashville</b>	WSM 650 50000 N
WQV 1130 1000	<b>Mount Orab</b>	<b>Scranton</b>	WCAE 1220 1000 R	<b>Springfield</b>	WSIX 1210 100
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WQAO 1010 250	<b>Toledo</b>	<b>Sunbury</b>	WWSW 1500 100	<b>Amarillo</b>	
WRNY 1010 250	WSPD 1340 1000 C	<b>Wilkes-Barre</b>	WEEL 830 1000	<b>KGRS</b>	1410 1000
<b>Rochester</b>	<b>Youngstown</b>	<b>York</b>	WRAP 1310 100	<b>WDAG</b>	1410 1000
WHAM 1150 25000 B	WKBN 570 500 C	<b>Williamsport</b>	WGBI 880 250	<b>Austin</b>	
WHEC 1430 500 C	<b>Zanesville</b>	<b>Williamsport</b>	WQAN 880 250	<b>KNOW</b>	1500 100
<b>Saranac Lake</b>	WALR 1210 100	<b>Reading</b>	<b>Silverhaven</b>	<b>Beaumont</b>	
WNBZ 1290 50	<b>OKLAHOMA</b>	<b>Scranton</b>	WNBO 1200 100	<b>KFDM</b>	560 500
<b>Schenectady</b>	<b>Elk City</b>	<b>Sunbury</b>	<b>Sunbury</b>	<b>Brownsville</b>	
WGY 790 50000 R	KASA 1210 100	<b>Wilkes-Barre</b>	WKOK 1210 100	<b>KWVG</b>	1260 500
<b>Syracuse</b>	<b>Enid</b>	<b>York</b>	WBAX 1210 100	<b>College Station</b>	
WFBL 1360 1000 C	KCRC 1370 100	<b>Williamsport</b>	WBRE 1310 100	<b>WTAW</b>	1120 500
WFSR 570 250 B	<b>Norman</b>	<b>Williamsport</b>	WRAK 1370 100	<b>Corpus Christi</b>	
<b>Troy</b>	WNAD 1010 500	<b>Reading</b>	WROK 1000 1000	<b>Dallas</b>	
WHAZ 1300 500	<b>Oklahoma City</b>	<b>Scranton</b>	<b>Cebu</b>	<b>KRLD</b>	1040 10000 C
WHDL 1420 100	KFXR 1310 100	<b>Silverhaven</b>	KZRC 937.5 500	<b>WFAA</b>	800 50000 N
<b>Utica</b>	KGFG 1370 100	<b>Wilkes-Barre</b>	<b>Manila</b>	<b>WRR</b>	1280 500 C
WIBX 1200 100	KOMA 1480 5000 C	<b>York</b>	KZEG 618.5 1000	<b>Dublin</b>	
<b>White Plains</b>	WKY 900 1000 N	<b>Williamsport</b>	KZKA 1110 1000	<b>El Paso</b>	
WFAS 1210 100 A	<b>Ponca City</b>	<b>Williamsport</b>	KZRM 618.5 50000	<b>Fort Worth</b>	
<b>Woodside</b>	WBBZ 1200 100	<b>Reading</b>	<b>PORTO RICO</b>	<b>KFJZ</b>	1370 100
WWRL 1500 100	<b>Shawnee</b>	<b>Scranton</b>	<b>San Juan</b>	<b>KTAT</b>	1240 1000 C
<b>NORTH CAROLINA</b>	KGFF 1420 100	<b>Silverhaven</b>	<b>RHODE ISLAND</b>	<b>WBAP</b>	800 50000 N
<b>Asheville</b>	<b>Tulsa</b>	<b>Williamsport</b>	<b>Providence</b>	<b>Galveston</b>	
WWNC 570 1000 N	KOCW 1400 250	<b>Reading</b>	WEAN 780 500 C	<b>KLUF</b>	1370 100
<b>Charlotte</b>	KVOO 1140 5000 N	<b>Scranton</b>	WJAR 890 500 R	<b>Greenville</b>	
WBT 1080 25000 C	<b>OREGON</b>	<b>Silverhaven</b>	WPRO 1210 100 A	<b>KFPM</b>	1310 15
WSOC 1210 100 N	<b>Corvallis</b>	<b>Williamsport</b>	<b>SOUTH CAROLINA</b>	<b>Harlingen</b>	
<b>Greensboro</b>	KOAC 550 1000	<b>Reading</b>	<b>Charleston</b>	<b>KRGV</b>	1260 500
WBIG 1440 500 C	<b>Eugene</b>	<b>Scranton</b>	WCSC 1360 500	<b>Houston</b>	
<b>Greenville</b>	KORE 1420 100	<b>Silverhaven</b>	<b>Columbia</b>	<b>KPRC</b>	920 1000 N
WEED 1420 100	<b>Klamath Falls</b>	<b>Williamsport</b>	WIS 1010 500 N	<b>KTRH</b>	1120 1000 C
<b>Raleigh</b>	KFJL 1210 100	<b>Reading</b>	<b>Greenville</b>	<b>KXYZ</b>	1440 250
WPTF 680 5000 N	<b>Marshfield</b>	<b>Scranton</b>	WFBC 1200 100	<b>Lubbock</b>	
<b>Wilmington</b>	KOOS 1370 100	<b>Silverhaven</b>	<b>Spartanburg</b>	<b>KFYO</b>	1310 100
WRAM 1370 100	<b>Medford</b>	<b>Williamsport</b>	WSPA 1420 100	<b>San Angelo</b>	
<b>Winston-Salem</b>	KMED 1310 100	<b>Reading</b>	<b>SOUTH DAKOTA</b>	<b>KGKL</b>	1370 100
WSJS 1310 100 C	<b>Portland</b>	<b>Scranton</b>	<b>Brookings</b>	<b>San Antonio</b>	
<b>NORTH DAKOTA</b>	KALE 1300 500 C	<b>Silverhaven</b>	KFDY 550 500	<b>KABC</b>	1420 100
<b>Bismarck</b>	KBPS 1420 100	<b>Williamsport</b>	<b>Huron</b>	<b>KMAC</b>	1370 100
KFYR 550 1000 N	KEX 1180 5000 N	<b>Reading</b>	KGDY 1340 250	<b>KONO</b>	1370 100
<b>Devils Lake</b>	KFJR 1300 500	<b>Scranton</b>	<b>Pierre</b>	<b>KTSA</b>	1290 1000 C
KDLR 1210 100	KGW 620 1000 N	<b>Silverhaven</b>	KGFX 630 200	<b>WOAI</b>	1190 50000 N
<b>Fargo</b>	KOIN 940 1000 C	<b>Williamsport</b>	<b>Rapid City</b>	<b>Tyler</b>	
WDAY 940 1000 N	KWJJ 1060 500	<b>Reading</b>	WCAT 1200 100	<b>KGKB</b>	1500 100
<b>Grand Forks</b>	KXL 1420 100	<b>Scranton</b>	<b>Sioux Falls</b>	<b>Waco</b>	
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<b>Minot</b>	WSAN 1440 250	<b>Scranton</b>	<b>Watertown</b>	<b>UTAH</b>	
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WJW 1210 100	<b>Erie</b>	<b>Silverhaven</b>			
<b>Canton</b>	WLBW 1260 500 C	<b>Williamsport</b>			
WHBC 1200 100	<b>Glenside</b>	<b>Reading</b>			
<b>Cincinnati</b>	WIBC 930 25	<b>Scranton</b>			
WFBE 1200 100	<b>Grove City</b>	<b>Silverhaven</b>			
<b>WCRC</b>	WSAJ 1310 100	<b>Williamsport</b>			
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**St. Albans**  
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 CJCA 730 500 F  
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**Chatham**  
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**Cobalt**  
 CKMC 1210 100  
**Fort William**  
 CKFR 780 100 F  
**Hamilton**  
 CHML 1010 50  
 CKOC 1120 1000 F  
**Kingston**  
 CFCG 915 100  
**Kitchener**  
 CKCR 645 100  
**London**  
 CFPL 730 100 F  
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**Ottawa**  
 CKCO 1010 100  
 CRCO 880 1000 F  
**Prescott**  
 CFLC 930 100  
**Preston**  
 CKPK 930 100 F  
**St. Catharines**  
 CKTB 1200 100  
**Stratford**  
 10-AK 1200 15  
**Sudbury**  
 CJSJ 780 500

**Toronto**  
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 CKCL 580 100  
 CRCT 960 5000 N  
 CKNC 1030 100 F  
**Windsor**  
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 VOKW 1085 30  
 VONF 1195 400  
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 TIGA 1014 30  
**San Jose**  
 TICR 912 75  
 TIEA 833 7.5  
 TIEP 1450 7.5  
 TIFB 714 30  
 TIGP 666 75  
 TIRCA 1100 500  
 TISO 550 250  
 TITV 999 7.5  
 TIVL 869 30  
 TIXA 614 7.5

**GUATEMALA**

**Guatemala City**  
 TGW 1350 500  
 TGX 1380 75

**EL SALVADOR**

**San Salvador**  
 RUS 664 500

**MEXICO**

**AGUASCALIENTES**  
 Aguascalientes  
 XFC 805 350

**BAJA CALIFORNIA**

**Mexicali**  
 XEAO 560 100  
**Tijuana**  
 XEAE 980 800  
 XEFD 757 5000

**CHIHUAHUA**

**Chihuahua**  
 XEFI 1260 250  
**Juarez**  
 XEAN 750 5000  
 XEFV 1370 100  
 XEJ 1015 500

**COAHUILA**

**Piedras Negras**  
 XEPN 585 75000  
**Saltillo**  
 XEL 1000 40  
**Torreón**  
 XETB 1380 125  
**Villa Acuna**  
 XER- 735 150000  
 XEF



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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

<b>W2XE-WABC, Wayne, N. J. (New York, N. Y.)</b>	
15.258	19.65 11 a.m. to 1 p.m.
11.823	25.36 3 p.m. to 5 p.m.
6.116	49.02 6 to 11 p.m.
<b>W3XAU-WCAU, Byberry, Pa. (Philadelphia, Pa.)</b>	
9.585	31.28 Noon to 6 p.m.
6.057	49.50 8 p.m. to 1 a.m.

#### NATIONAL "RED" NETWORK

<b>W1XAL-WEEI Boston, Mass. (Boston, Mass.)</b>	
15.242	19.67 Sunday, 10 a.m. to 1 p.m.
11.780	25.45 Sat., 5:30 to 11 p.m.; Sun., 6:30-8:30 p.m.
<b>W2XAD-WGY, Schenectady, N. Y. (Schenectady, N. Y.)</b>	
15.320	19.57 Mon., Wed., Fri., Sun., 4-5 p.m.
<b>W2XAF-WGY, Schenectady, N. Y. (Schenectady, N. Y.)</b>	
9.530	31.46 7:45 to 11 p.m.
<b>W9XAA-WCFL, Chicago, Ill. (Chicago, Ill.)</b>	
17.780	16.86 Very Irregular
11.840	25.35 Irregular
6.076	49.34 3 to 6 p.m.

#### NATIONAL "BLUE" NETWORK

<b>W1XAZ-WBZ-WBZA, Millis, Mass. (Boston and Springfield, Mass.)</b>	
9.560	31.36 6 a.m. to midnight

<b>W3XAL-WJZ Boundbrook, N. J. (New York, N. Y.)</b>	
17.772	16.87 12:30 to 6:30 p.m., except Sat.
6.096	49.17 Saturday 3 p.m. to midnight
<b>W3XL-WJZ, Boundbrook, N. J. (New York, N. Y.)</b>	
6.425	46.66 Fri., 5 p.m. to 1 a.m.
<b>W8XK-KDKA, Saxonburg, Pa. (Pittsburgh, Pa.)</b>	
21.451	13.93 7 a.m. to 2 p.m.
15.204	19.72 10 a.m. to 4:15 p.m.
11.870	25.25 4:30 to 10 p.m.
6.140	48.83 4:30 p.m. to 12:30 a.m.

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

<b>VE9DR-CFCF, Montreal, Quebec (Montreal, Quebec)</b>	
6.005	49.93 Sun., noon to 11:15 p.m. Other days, 7:30 a.m. to midnight
<b>VE9GW-CRCT, Bowmanville, Ont. (Toronto, Ontario)</b>	
6.092	49.22 Thurs., 7 a.m. to 4 p.m.; Fri. and Sat., 3 to 11 p.m.; Sun., 11 a.m. to 8 p.m.
<b>W4XB-WIOD, Miami Beach, Fla. (Miami Beach, Fla.)</b>	
6.036	49.67 Irregular
<b>W8XAL-WLW, Mason, Ohio (Cincinnati, Ohio)</b>	
6.009	49.48 Irregular
<b>W9XF-WENR, Downer's Grove, Ill. (Chicago, Ill.)</b>	
6.100	49.15 Sat., silent; Sun., 1 to 2:30 p.m., 4:30 to 7 p.m., 9 p.m. to 2 a.m.; other days, 4:30 to 8 p.m., 9:30 p.m. to 2 a.m.

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<b>CFAC</b> 930 500 Calgary, Alta. Calgary Herald.	<b>CKGD</b> 1010 100 Vancouver, B. C. Vancouver Daily Province.
<b>CFBO</b> 1210 100 St. John, N. B. C. A. Munro, Ltd.	<b>CKGH</b> 1210 100 Hull, Que. Dr. J. L. Chabot.
<b>CFCF</b> 800 500 Montreal, Que. Canadlan Marconi Co.	<b>CKCK</b> 1010 500 Regina, Sask. Leader-Post, Ltd.
<b>CFCH</b> 930 100 North Bay, Ont. Northern Broadcasting Co., Ltd.	<b>CKCL</b> 580 100 Toronto, Ont. Dominion Battery Co., Ltd.
<b>CFCN</b> 1030 10000 Calgary, Alta. W. W. Grant & H. G. Love.	<b>CKCO</b> 1010 100 Ottawa, Ont. Dr. G. M. Geldert.
<b>CFGO</b> 1210 100 Chatham, Ont. John Beardall.	<b>CKCR</b> 845 100 Kitchener, Ont. William C. Mitchell and G. Liddle.
<b>CFGT</b> 1430 50 Victoria, B. C. Victoria Broadcasting Assn.	<b>CKCV</b> 1310 50 Quebec, Que. Vandry, Inc.
<b>CFGY</b> 830 500 Charlottetown, P. E. I. Island Radio Broadcasting Co., Ltd.	<b>CKFC</b> 1410 50 Vancouver, B. C. Radio Service Engineers, Ltd.
<b>CFJC</b> 1310 100 Kamloops, B. C. Review Publishing Co., Ltd.	<b>CKIC</b> 1010 50 Wolfville, N. S. Acadia University.
<b>CFLC</b> 930 100 Prescott, Ont. Radio Assn. of Prescott.	<b>CKLW</b> 840 5000 Windsor, Ont. Western Ontario Broadcasting Co., Ltd.
<b>CFNB</b> 1030 500 Fredericton, N. B. James S. Neill & Sons, Ltd.	<b>CKMC</b> 1210 100 Cobalt, Ont. R. L. MacAdam.
<b>CFPL</b> 730 100 London, Ont. Free Press & Printing Co., Ltd.	<b>CKMO</b> 1410 100 Vancouver, B. C. Sprott-Shaw Radio Co.
<b>CFQC</b> 1230 500 Saskatoon, Sask. Electric Shop, Ltd.	<b>CKNC</b> 1030 100 Toronto, Ont. Canadian National Carbon Co., Ltd.
<b>CFRB</b> 890 10000 Toronto, Ont. Canadian Radio Corp., Ltd.	<b>CKOC</b> 1120 1000 Hamilton, Ont. Wentworth Radio Broadcasting Co., Ltd.
<b>CFRC</b> 915 100 Kingston, Ont. Queens University.	<b>CKOV</b> 1200 100 Kelowna, B. C. Okanagan Broadcasters, Ltd., Box 243.
<b>CHAB</b> 1200 25 Moose Jaw, Sask. Moose Jaw Radio Assn.	<b>CKPC</b> 930 100 Preston, Ont. Cyrus Dolph.
<b>CHCK</b> 1310 100 Charlottetown, P. E. I. J. A. Gesner.	<b>CKPR</b> 780 100 Fort William, Ont. Dougall Motor Co., Ltd.
<b>CHGS</b> 1120 100 Summerside, P. E. I. R. T. Holman, Ltd.	<b>CKTB</b> 1200 100 St. Catharines, Ont. E. T. Sandell.
<b>CHLP</b> 1120 100 Montreal, Que. La Patrie Publishing Co., Ltd.	<b>CKUA</b> 580 500 Edmonton, Alta. University of Alberta.
<b>CHMA</b> 580 250 Edmonton, Alta. Christian and Missionary Alliance.	<b>CKWX</b> 1010 100 Vancouver, B. C. Western Broadcasting Co., Ltd.
<b>CHML</b> 1010 50 Hamilton, Ont. Maple Leaf Radio Co., Ltd.	<b>CKX</b> 1450 500 Brandon, Man. Manitoba Telephone System.
<b>CHNC</b> 1210 100 New Carlisle, Que. Dr. Charles Houde.	<b>CKY</b> 910 5000 Winnipeg, Man. Manitoba Telephone System.
<b>CHNS</b> 1050 500 Halifax, N. S. Maritime Broadcasting Co., Ltd.	<b>CMAB</b> 1245 20 Pinar del Rio, Cuba. Jose Silvers, Martl No. 101.
<b>CHRC</b> 930 100 Quebec, Que. CHRC, Ltd.	<b>CMAF</b> 880 1000 Havana, Cuba. International Broadcasting Co., Miramar.
<b>CHWC</b> 1010 500 Regina, Sask. R. H. Williams & Sons, Ltd.	<b>CMBC</b> 1270 150 Havana, Cuba. Domingo Fernandez, Maximo Gomez No. 139.
<b>CHWK</b> 780 100 Chilliwack, B. C. Chilliwack Broadcasting Co., Ltd.	<b>CMBD</b> 865 250 Havana, Cuba. Luis Perez Garcia, Enamorados y Flores.
<b>CJCA</b> 730 500 Edmonton, Alta. Edmonton Journal, Ltd.	<b>CMBG</b> 1070 225 Havana, Cuba. John L. Stowers, Hospital No. 100
<b>CJCB</b> 880 50 Sydney, N. S. Nathanson's Radio Headquarters.	<b>CMBJ</b> 1140 500 Havana, Cuba. Emilio Perera, Consulado y Virtudes.
<b>CJCC</b> 890 500 Calgary, Alta. Albertan Publishing Co., Ltd.	<b>CMBK</b> 1445 15 Havana, Cuba. Alberto Alvarez, Paula y Oficio.
<b>CJCS</b> 780 500 Sudbury, Ont. George McLeod Cootes	<b>CMBL</b> 1445 200 Havana, Cuba. Julio C. Hidalgo, Vedado.
<b>CJGX</b> 830 500 Yorkton, Sask. Winnipeg Grain Exchange.	<b>CMBN</b> 1185 150 Havana, Cuba. G. de Sequeira, Agrimonte No. 32
<b>CJOC</b> 840 100 Lethbridge, Alta. H. R. Carson, Ltd.	<b>CMBS</b> 780 200 Havana, Cuba. Enrique Artalejo, Calzada y H. St.
<b>CJOR</b> 1210 500 Vancouver, B. C. G. C. Chandler.	<b>CMBW</b> 1140 500 Havana, Cuba. Alvarez, Moris y Cia, Obrapia No. 13.
<b>CJRM</b> 540 500 Moose Jaw, Sask. James Richardson & Sons, Ltd.	<b>CMBY</b> 1230 250 Havana, Cuba. Callejas-Estefani, Principe No. 33.
<b>CJRW</b> 540 500 Fleming, Sask. James Richardson & Sons, Ltd.	<b>CMBZ</b> 1010 150 Havana, Cuba. Manuel y G. Salas, San Rafael No. 14.
<b>CKAC</b> 730 5000 Montreal, Que. LaPresse Publishing Co., Ltd.	<b>CMC</b> 840 500 Havana, Cuba. Radio Corp. of Cuba.

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<b>CMCA</b> 1230 150 Havana, Cuba. Manuel Cruz, Ave. de Italia No. 102.	<b>CMJP</b> 1360 75 Moron, Cuba. Cesar Canall, Callejas No. 28.
<b>CMCB</b> 1070 150 Havana, Cuba. Metropolitan-Radio de Cuba.	<b>CMK</b> 730 5000 Havana, Cuba. National Broadcasting Co. of Cuba.
<b>CMCD</b> 925 500 Havana, Cuba. Angel Bertematy.	<b>CMKC</b> 1034 150 Santiago, Cuba. Pinol Batlle y Co.
<b>CMCF</b> 890 250 Havana, Cuba. Raoul Karman.	<b>CMKJ</b> 1300 20 Guantanamo, Cuba. Luis Morlote, East Giro 11.
<b>CMCH</b> 1410 50 Havana, Cuba. Wifredo y Humberto Fontanals Sanchez.	<b>CMQ</b> 630 500 Havana, Cuba. Jose Fernandez, 25 Numero 445.
<b>CMCJ</b> 1185 500 Havana, Cuba. Rafael Rodriguez, Estevez No. 4.	<b>CMW</b> 590 1400 Havana, Cuba. Troncoso y Gil, Paseo de Marti 103.
<b>CMCM</b> 1410 15 Havana, Cuba. Aurelio Balino, Belas Coain No. 639.	<b>CMX</b> 890 1000 Havana, Cuba. Casa "Lavin," Ave. de la Republica 99A.
<b>CMCN</b> 1375 250 Havana, Cuba. Antonio Ginard, Reina y Ave. Buen Retiro	<b>CRCA</b> 580 500 Moncton, N. B. Canadian Radio Broadcasting Commission.
<b>CMCP</b> 1270 150 Havana, Cuba. Jose A. Yanls	<b>CRCM</b> 910 5000 Montreal, Que. Canadian Radio Broadcasting Commission
<b>CMCQ</b> 780 1000 Havana, Cuba. Andres Martinez, Vista Alegre No. 80.	<b>CRCO</b> 880 1000 Ottawa, Ont. Canadian Radio Broadcasting Commission.
<b>CMCR</b> 1375 150 Havana, Cuba. Aurelio Hernandez.	<b>CRCS</b> 1500 100 Chicoutimi, Que. Canadian Marconi Co., Ltd.
<b>CMCU</b> 1100 500 Havana, Cuba. Jorge Garcia Serra.	<b>CRCT</b> 950 5000 Toronto, Ont. Canadian Radio Broadcasting Commission.
<b>CMCW</b> 965 150 Havana, Cuba. Vilarino y Cervantes.	<b>CRCV</b> 1100 500 Vancouver, B. C. Canadian Radio Broadcasting Commission.
<b>CMCY</b> 1325 500 Havana, Cuba. Manuel D. Autran, Ave. dela Pdt s.215.	<b>HHK</b> 920 1000 Port-au-Prince, Haiti. Haitian Government.
<b>CMDE</b> 925 150 Havana, Cuba. Radio Aerial Ad.	<b>HIM</b> 1395 15 San Pedro de M., D. R. Domingo Dominguez
<b>CMGA</b> 834 100 Colon, Cuba. L. Valdes Figueroa, Marti No. 19.	<b>HIJ</b> 1195 15 Santo Domingo, D. R. Tuto Baez, Hostes 34
<b>CMGB</b> 1205 30 Matanzas, Cuba. Jose Anorga, Magdalena No. 1.	<b>HIJK</b> 1180 15000 Santo Domingo, D. R.
<b>CMGC</b> 820 30 Matanzas, Cuba. Oscar S. Mechoso, Independencia No. 56.	<b>HIX</b> 580 1500 Santo Domingo, D. R. J. R. Saladin, Director General
<b>CMGE</b> 1375 30 Cardenas, Cuba. Genaro Sebater, Céspedes No. 180.	<b>HJN</b> 681 500 Bogota, Colombia Government of Colombia, National Library.
<b>CMGF</b> 977 100 Matanzas, Cuba. Bernabe R. de la Torre.	<b>KABC</b> 1420 100 San Antonio, Texas. Alamo Broadcasting Co., Inc.
<b>CMGH</b> 1040 15 Matanzas, Cuba. Octavio y Julio Alvarez.	<b>KALE</b> 1300 500 Portland, Ore. Kale, Inc., New Heathman Hotel
<b>CMHD</b> 950 500 Caibarien, Cuba. Manuel Alvarez, M. Escobar 17.	<b>KARK</b> 890 250 Little Rock, Ark. Arkansas Radio & Equipment Co.
<b>CMHI</b> 1037 250 Santa Clara, Cuba. Lavia y Paz.	<b>KASA</b> 1210 100 Elk City, Okla. E. M. Woody, Casa Grande Hotel.
<b>CMHJ</b> 1125 60 Cienfuegos, Cuba. Victorino Lopez Hontanon.	<b>KBPS</b> 1420 100 Portland, Ore. Benson Polytechnic School
<b>CMHK</b> 1225 50 Cruces, Cuba. Virgilio Villaneuva Fernandez.	<b>KBTM</b> 1200 100 Paragould, Ark. Jay P. Beard.
<b>CMHL</b> 1290 20 Cienfuegos, Cuba. Oscar Zayas, San Carlos 143.	<b>KCMC</b> 1420 100 Texarkana, Ark. M. P. Mims, Box 865.
<b>CMJC</b> 1382 150 Camaguey, Cuba. Feliciano Isaac, Cisneros y G. Gomez.	<b>KCRC</b> 1370 100 Enid, Okla. Enid Radiophone Co.
<b>CMJE</b> 1175 50 Camaguey, Cuba. Manuel Fernandez, Plaza de Maceo.	<b>KCRJ</b> 1310 100 Jerome, Ariz. Chas. C. Robinson, Drawer D.
<b>CMJF</b> 930 200 Camaguey, Cuba. John L. Stowers, Hotel Plaza.	<b>KDB</b> 1500 100 Santa Barbara, Calif. Santa Barbara Broadcasters, Ltd.
<b>CMJG</b> 1050 50 Camaguey, Cuba. Jose Antonio Lefran, Martires 133.	<b>KDFN</b> 1440 500 Casper, Wyo. Donald Lewis Hathaway.
<b>CMJH</b> 1150 50 Ciego de Avila, Cuba. Luis Maraauri Mendosa.	<b>KDKA</b> 980 5000 Pittsburgh, Pa. Westinghouse Electric & Mfg. Co.
<b>CMJI</b> 1280 45 Ciego de Avila, Cuba. Gilberto Gessa Lopez, Independencia 95.	<b>KDLR</b> 1210 100 Devils Lake, N. D. KDLR, Inc., 1025 3rd Street.
<b>CMJK</b> 790 500 Camaguey, Cuba. Compania Cubana Nacional de Radio S. A.	<b>KDYL</b> 1290 1000 Salt Lake City, Utah. Intermountain Broadcasting Corp.
<b>CMJL</b> 960 50 Camaguey, Cuba. Enrique Artime, Cuba No. 27.	<b>KECA</b> 1430 1000 Los Angeles, Calif. Earle C. Anthony, Inc.
<b>CMJN</b> 1240 50 Camaguey, Cuba. Ernesto de Ugarria, Martires 11.	<b>KELW</b> 780 500 Burbank, Calif. Magnolia Park, Ltd., 3702 Magnolia
<b>CMJO</b> 1010 50 Ciego de Avila, Cuba. Jose M. Ikey, C. Central & Macco.	<b>KERN</b> 1200 100 Bakersfield, Calif. Bee Bakersfield Broadcasting Co.

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**KEX 1180 5000** Portland, Ore.  
 National Broadcasting Co.  
**KFAB 770 5000** Lincoln, Neb.  
 KFAB Broadcasting Co.  
**KFAC 1300 1000** Los Angeles, Calif.  
 E. L. Cord, 645 So. Mariposa.  
**KFBB 1280 1000** Great Falls, Mont.  
 Buttrey Broadcast, Inc.  
**KFBI 1050 5000** Abilene, Kans.  
 Farmers & Bankers Life Ins. Co.  
**KFBK 1310 100** Sacramento, Calif.  
 James McClatchy Publishing Co.  
**KFBL 1370 50** Everett, Wash.  
 Leese Bros., 2814 Rucker Ave.  
**KFDM 550 500** Beaumont, Texas.  
 Sabine Broadcasting Co.  
**KFDY 550 500** Brookings, S. D.  
 South Dakota State College.  
**KFEL 920 500** Denver, Colo.  
 Eugene P. O'Fallon, Inc.  
**KFEQ 680 2500** St. Joseph, Mo.  
 Scroggin & Co. Bank  
**KFGQ 1310 100** Boone, Iowa.  
 Boone Biblical College.  
**KFH 1300 1000** Wichita, Kans.  
 Radio Station KFH Co.  
**KFI 640 50000** Los Angeles, Calif.  
 Earle C. Anthony, Inc.  
**KFIO 1120 100** Spokane, Wash.  
 Spokane Broadcasting Corp.  
**KFIZ 1420 100** Fond du Lac, Wis.  
 Reporter Printing Co.  
**KFJB 1200 100** Marshalltown, Iowa.  
 Marshall Electric Co.  
**KFJI 1210 100** Klamath Falls, Ore.  
 KFJI Broadcasters, Inc., Willard Hotel.  
**KFJM 1370 100** Grand Forks, N. D.  
 University of North Dakota.  
**KFJR 1300 500** Portland, Ore.  
 Ashley C. Dixon-KFJR, Inc.  
**KFJZ 1370 100** Fort Worth, Texas.  
 Fort Worth Broadcasters, Inc.  
**KFKA 880 500** Greeley, Colo.  
 Mid-Western Radio Corp.  
**KFKU 1220 500** Lawrence, Kans.  
 University of Kansas.  
**KFLV 1410 500** Rockford, Ill.  
 Rockford Broadcasters, Inc.  
**KFNF 890 500** Shenandoah, Iowa.  
 Henry Field Co.  
**KFOR 1210 100** Lincoln, Neb.  
 Howard Shuman  
**KFOX 1250 1000** Long Beach, Calif.  
 Nicholas & Warinner, Inc.  
**KFPL 1310 100** Dublin, Texas.  
 C. C. Baxter, Box 176  
**KFPM 1310 15** Greenville, Texas.  
 New Furniture Co.  
**KFPW 1210 100** Fort Smith, Ark.  
 Southwestern Hotel Co.  
**KFPY 1340 1000** Spokane, Wash.  
 Symons Broadcasting Co.  
**KFQD 500 250** Anchorage, Alaska  
 Anchorage Radio Club, Inc.  
**KFRC 810 1000** San Francisco, Calif.  
 Don Lee, Inc.  
**KFRU 630 500** Columbia, Mo.  
 KFRU, Inc., 9th and Elm Sts.  
**KFSD 600 1000** San Diego, Calif.  
 Airfan Radio Corp., Ltd.  
**KFSG 1120 500** Los Angeles, Calif.  
 Echo Park Evangelistic Assn.

**KFUO 550 500** St. Louis, Mo.  
 Evangelical Lutheran Church.  
**KFVD 1000 250** Los Angeles, Calif.  
 E. L. Cord, 645 S. Mariposa.  
**KFVS 1210 100** Cape Girardeau, Mo.  
 Oscar C. Hirsch, Box 275.  
**KFWB 950 1000** Hollywood, Calif.  
 Warner Bros. Motion Pictures, Inc.  
**KFWI 930 500** San Francisco, Calif.  
 Radio Entertainments, Ltd.  
**KFXD 1200 100** Nampa, Idaho.  
 Frank E. Hurt, 1024 12th Ave., S.  
**KFXF 920 500** Denver, Colo.  
 Colorado Radio Corp.  
**KFXJ 1200 100** Grand Jct., Colo.  
 Western Slope Broadcasting Co.  
**KFXM 1210 100** San Bernardino, Calif.  
 Lee Bros. Broadcasting Co.  
**KFXR 1310 100** Oklahoma City, Okla.  
 Exchange Avenue Baptist Church.  
**KFYO 1310 100** Lubbock, Texas.  
 Kirksey Bros., Hotel Lubbock.  
**KFYR 550 1000** Bismarck, N. D.  
 Mayer Broadcasting Co.  
**KGA 1470 5000** Spokane, Wash.  
 Northwest Broadcasting Co., Inc.  
**KGAR 1370 100** Tucson, Ariz.  
 Tucson Motor Service Co.  
**KGB 1330 1000** San Diego, Calif.  
 Don Lee Broadcasting System  
**KGBU 900 500** Ketchikan, Alaska.  
 Alaska Radio & Service Co., Inc.  
**KGBX 1310 100** Springfield, Mo.  
 KGBX, Inc.  
**KGBZ 930 500** York, Neb.  
 Dr. Geo. R. Miller, 715 Grant Ave.  
**KGCA 1270 100** Decorah, Iowa  
 Charles W. Greenley  
**KGCR 1210 100** Watertown, S. D.  
 Greater Kampeska Radio Corp.  
**KGCU 1240 250** Mandan, N. D.  
 Mandan Radio Assn.  
**KGCX 1310 100** Wolf Point, Mont.  
 E. E. Krebbsbach.  
**KGDE 1200 100** Fergus Falls, Minn.  
 C. L. Jaren.  
**KGDM 1100 250** Stockton, Calif.  
 E. F. Peffer, 42 S. Calif. St.  
**KGDY 1340 250** Huron, S. D.  
 Voice of S. D., Inc., 347 Dakota Ave.  
**KGEK 1200 100** Yuma, Colo.  
 Elmer G. Beehler, 109 W. 2nd St.  
**KGER 1350 1000** Long Beach, Calif.  
 Consolidated Broadcasting Co.  
**KGEZ 1310 100** Kalispell, Mont.  
 Donald C. Treloar, Box 1.  
**KGFF 1420 100** Shawnee, Okla.  
 KGFF Broadcasting Co., Inc.  
**KGFG 1370 100** Oklahoma City, Okla.  
 Oklahoma Broadcasting Co., 1113 N. Broadway.  
**KGFI 1500 100** Corpus Christi, Texas.  
 Eagle Broadcasting Co., Inc.  
**KGfJ 1200 100** Los Angeles, Calif.  
 Ben S. McGlashan, 1417 S. Figueroa.  
**KGFK 1500 100** Moorhead, Minn.  
 Red River Broadcasting Co., Inc.  
**KGFL 1370 100** Roswell, N. M.  
 KGFL, Inc., 507 N. Main St.  
**KGFW 1310 100** Kearney, Neb.  
 Central Nebraska Broadcasting Corp.  
**KGFX 630 200** Pierre, S. D.  
 Dana McNeil, 510 Summit Ave.

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<b>KGBC</b> 1420 100 San Francisco, Calif. Golden Gate Broadcasting Co.	<b>KLCN</b> 1290 100 Blytheville, Ark. C. L. Lintzenloh, Main and Division St.
<b>KGGF</b> 1010 500 Coffeyville, Kans. Hugh J. Powell and Stanley Platts.	<b>KLO</b> 1400 500 Ogden, Utah. Interstate Broadcasting Co.
<b>KGGM</b> 1230 250 Albuquerque, N. M. New Mexico Broadcasting Co.	<b>KLPM</b> 1240 250 Minot, N. D. John B. Cooley.
<b>KGHF</b> 1320 250 Pueblo, Colo. C. P. Ritchie & Geo. J. Ikelman	<b>KLRA</b> 1390 1000 Little Rock, Ark. Arkansas Broadcasting Co.
<b>KGHI</b> 1200 100 Little Rock, Ark. Lloyd Judd Co., Marion Hotel.	<b>KLS</b> 1440 250 Oakland, Calif. Warner Bros., 2201 Telegraph Ave.
<b>KGHL</b> 950 1000 Billings, Mont. Northwestern Auto Supply Co.	<b>KLUF</b> 1370 100 Galveston, Texas. Geo. R. Clough, 3327 Ave. P.
<b>KGIR</b> 1360 500 Butte, Mont. KGIR, Inc., 121 W. Broadway.	<b>KLX</b> 830 1000 Oakland, Calif. Tribune Building Co.
<b>KGIW</b> 1420 100 Alamosa, Colo. Leonard E. Wilson, 326 N. Commercial	<b>KLZ</b> 580 1008 Denver, Colo. Reynolds Radio Co., Inc.
<b>KGIX</b> 1420 100 Las Vegas, Nev. J. M. Heaton, Box 656.	<b>KMA</b> 930 500 Shenandoah, Iowa. Earl E. May Seed & Nursery Co.
<b>KGIZ</b> 560 500 Springfield, Mo. Grant City Park Corp.	<b>KMAC</b> 1370 100 San Antonio, Texas. W. W. McAllister, Blue Bonnet Hotel.
<b>KGKB</b> 1500 100 Tyler, Texas. East Texas Broadcasting Co.	<b>KMBC</b> 950 1000 Kansas City, Mo. Midland Broadcasting Co.
<b>KGKL</b> 1370 100 San Angelo, Texas. KGKL, Inc., St. Angelus Hotel.	<b>KMED</b> 1310 100 Medford, Ore. Mrs. W. J. Virgin, Sparta Bldg.
<b>KGKO</b> 570 250 Wichita Falls, Texas. Wichita Falls Broadcasting Co.	<b>KMJ</b> 580 600 Fresno, Calif. James McClatchy Co.
<b>KGKY</b> 1500 100 Scottsbluff, Neb. Hilliard Co., Inc., 1517½ Broadway.	<b>KMLB</b> 1200 100 Monroes, La. Liners Broadcasting Station, Inc.
<b>KGMB</b> 1320 250 Honolulu, T. H. Honolulu Broadcasting Co., 119 Merchant St.	<b>KMMJ</b> 740 1000 Clay Center, Neb. The M. M. Johnson Co.
<b>KGNF</b> 1430 600 North Platte, Neb. Great Plains Broadcasting Co.	<b>KMO</b> 1330 250 Tacoma, Wash. KMO, Inc., Hotel Winthrop.
<b>KGNO</b> 1340 250 Dodge City, Kans. KGNO Broadcasting Station	<b>KMOX</b> 1090 50000 St. Louis, Mo. The Voice of St. Louis, Inc.
<b>KGO</b> 790 7500 San Francisco, Calif. National Broadcasting Co., Inc.	<b>KMPC</b> 710 500 Beverly Hills, Calif. Beverly Hills Broadcasting Corp.
<b>KGRS</b> 1410 1000 Amarillo, Texas. E. B. Gish, Bellaire Park.	<b>KMTR</b> 570 500 Hollywood, Calif. KMTR Radio Corp., 915 N. Formosa Ave.
<b>KGU</b> 750 2500 Honolulu, T. H. Advertiser Publishing Co., Ltd.	<b>KNOW</b> 1500 100 Austin, Texas. Southwest Broadcasting Co.
<b>KGVO</b> 1200 100 Missoula, Mont. Meebys, Inc., 240 N. Higgins.	<b>KNX</b> 1050 25000 Hollywood, Calif. Western Broadcast Co., Inc.
<b>KGW</b> 620 1000 Portland, Ore. Oregonian Publishing Co.	<b>KOA</b> 830 12,500 Denver, Colo. General Electric Co., 1370 Krameria St.
<b>KGY</b> 1210 100 Olympia, Wash. KGY, Inc., 11th and Capitol Way.	<b>KOAC</b> 550 1000 Corvallis, Ore. Oregon State Agricultural College.
<b>KHJ</b> 900 1000 Los Angeles, Calif. Don Lee Broadcasting System.	<b>KOB</b> 1180 10000 Albuquerque, N. M. Albuquerque Journal, Box 667.
<b>KHQ</b> 590 1000 Spokane, Wash. Louis Wasmer, Inc.	<b>KOCW</b> 1400 250 Tulsa, Okla. J. T. Griffin.
<b>KICA</b> 1370 100 Clovis, N. M. Southwest Broadcasting Co.	<b>KOH</b> 1380 500 Reno, Nev. The Bee, Inc.
<b>KICK</b> 1420 100 Carter Lake, Iowa. Red Oak Radio Corp.	<b>KOIL</b> 1280 1000 Council Bluffs, Iowa. Mona Motor Oil Co.
<b>KID</b> 1320 250 Idaho Falls, Idaho. KID Broadcasting Co., Inc.	<b>KOIN</b> 940 1000 Portland, Ore. KOLN, Inc., New Heathman Hotel.
<b>KIDO</b> 1350 1000 Boise, Idaho. C. G. Phillips & Frank L. Hill.	<b>KOL</b> 1270 1060 Seattle, Wash. Seattle Broadcasting Co.
<b>KIDW</b> 1420 100 Lamar, Colo. Lamar Broadcasting Co., Box 688	<b>KOMA</b> 1480 5000 Oklahoma City, Okla. National Radio Manufacturing Co.
<b>KIEM</b> 1210 100 Eureka, Calif. Harold H. Hanseth, Vance Hotel.	<b>KOMO</b> 920 1000 Seattle, Wash. Fishers Blend Station, Inc.
<b>KIEV</b> 950 100 Glendale, Calif. Cannon System, Ltd., Glendale Hotel.	<b>KONO</b> 1370 100 San Antonio, Texas. Merion Broadcasting Co., St. Anthony Hotel.
<b>KIFH</b> 1310 100 Juneau, Alaska Juneau Broadcasting Co.	<b>KOOS</b> 1370 100 Marshfield, Ore. H. H. Hanseth, Hall Bldg.
<b>KIT</b> 1310 100 Yakima, Wash. Valley Broadcasters, Inc.	<b>KORE</b> 1420 100 Eugene, Ore. Frank L. Hill and Curtis G. Phillips.
<b>KJBS</b> 1070 100 San Francisco, Calif. Julius Brunton & Sons Co.	<b>KOY</b> 1390 500 Phoenix, Ariz. Nielsen Radio & Sporting Goods Co.
<b>KJR</b> 970 5000 Seattle, Wash. Fishers Blend Station, Inc.	<b>KPCB</b> 650 100 Seattle, Wash. Queen City Broadcasting Co.

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<b>KPJM</b> 1500 100 Prescott, Ariz. Frank Mauthe, Box 852	<b>KUJ</b> 1370 100 Walla Walla, Wash. KUJ, Inc., Marcus Whitman Hotel.
<b>KPO</b> 680 50000 San Francisco, Calif. National Broadcasting Co., Inc.	<b>KUMA</b> 1420 100 Yuma, Ariz. Dr. A. H. Schermann, Box 267.
<b>KPOF</b> 880 500 Denver, Colo. Pillar Of Fire, 1845 Champa St.	<b>KUOA</b> 1280 1000 Fayetteville, Ark. KUOA, Inc., Washington Hotel.
<b>KPPC</b> 1210 50 Pasadena, Calif. Pasadena Presbyterian Church.	<b>KUSD</b> 890 500 Vermillion, S. D. University of South Dakota.
<b>KPQ</b> 1500 100 Wenatchee, Wash. Westcoast Broadcasting Co.	<b>KVI</b> 570 500 Tacoma, Wash. Puget Sound Broadcasting Co., Tacoma Hotel.
<b>KPRC</b> 920 1000 Houston, Texas. Houston Printing Co.	<b>KVL</b> 1370 100 Seattle, Wash. KVL, Inc., 5th and Virginia St.
<b>KQV</b> 1380 500 Pittsburgh, Pa. KQV Broadcasting Co., Investment Bldg.	<b>KVOA</b> 1260 500 Tucson, Ariz. Arizona Broadcasting Co., Inc.
<b>KQW</b> 1010 500 San Jose, Calif. Pacific Agricultural Foundation, Ltd.	<b>KVOO</b> 1140 5000 Tulsa, Okla. Southwestern Sales Corp.
<b>KRE</b> 1370 100 Berkeley, Calif. First Congregational Church.	<b>KVOR</b> 1270 1000 Colorado Springs, Colo S. H. Patterson
<b>KREG</b> 1500 100 Santa Ana, Calif. The Voice of the Orange Empire, Inc.	<b>KVOS</b> 1200 100 Bellingham, Wash. KVOS, Inc., Bellingham Hotel.
<b>KRGV</b> 1260 500 Harlingen, Texas. KRGV, Inc.	<b>KWCR</b> 1420 100 Cedar Rapids, Iowa. Cedar Rapids Broadcast Co.
<b>KRKD</b> 1120 500 Los Angeles, Calif. Fireside Broadcasting Corp.	<b>KWEA</b> 1210 100 Shreveport, La. International Broadcasting Corp.
<b>KRLD</b> 1040 10000 Dallas, Texas. KRLD Radio Corp., Adolph Hotel.	<b>KWFFV</b> 1210 100 Hilo, Hawaii Hilo Broadcasting Co., Ltd.
<b>KRMD</b> 1310 100 Shreveport, La. Radio Station KRMD, Inc.	<b>KWG</b> 1200 100 Stockton, Calif. McClatchy Newspapers, Inc.
<b>KROW</b> 930 500 Oakland, Calif. Educational Broadcasting Corp.	<b>KWJJ</b> 1060 500 Portland, Ore. KWJJ Broadcast Co., Inc., 328 Salmon St.
<b>KRSC</b> 1120 100 Seattle, Wash. Radio Sales Corp., Washington Athletic Club.	<b>KWK</b> 1350 1000 St. Louis, Mo. Thomas Patrick, Inc., Hotel Chase.
<b>KSAC</b> 580 500 Manhattan, Kans. State College of Agriculture.	<b>KWKC</b> 1370 100 Kansas City, Mo. Wilson Duncan Broadcasting Co.
<b>KSCJ</b> 1330 1000 Sioux City, Iowa. Perkins Bros. Co., 415 Douglas St.	<b>KWKH</b> 850 10000 Shreveport, La. International Broadcasting Corp.
<b>KSD</b> 550 500 St. Louis, Mo. Pulitzer Publishing Co.	<b>KWLC</b> 1270 100 Decorah, Iowa. Luther College.
<b>KSEI</b> 890 250 Pocatello, Idaho. Radio Service Corp., 141 S. 6th Ave.	<b>KWSC</b> 1220 1000 Pullman, Wash. State College of Washington.
<b>KSL</b> 1130 50000 Salt Lake City, Utah. Radio Service Corp. of Utah.	<b>KWWG</b> 1260 500 Brownsville, Texas. Frank P. Jackson.
<b>KSO</b> 1370 100 Des Moines, Iowa. Des Moines Register & Tribune.	<b>KXA</b> 780 250 Seattle, Wash. American Radio Tel. Co., 218 Bigelow Bldg.
<b>KS00</b> 1110 1000 Sioux Falls, S. D. Jos. Henkin, 1613 S. Duluth Ave.	<b>KXL</b> 1420 100 Portland, Ore. KXL Broadcasters, 269 Pine St.
<b>KSTP</b> 1460 10000 St. Paul, Minn. National Battery Broadcasting Co.	<b>KXO</b> 1500 100 El Centro, Calif. E. R. Irey and F. M. Bowles.
<b>KSUN</b> 1200 100 Lowell, Ariz. Copper Electrical Co.	<b>KXRO</b> 1310 100 Aberdeen, Wash. KXRO, Inc., Hotel Morek.
<b>KTAB</b> 560 1000 San Francisco, Calif. Associated Broadcasters, Inc.	<b>KXYZ</b> 1440 250 Houston, Texas. Harris County Broadcast Co.
<b>KTAR</b> 620 500 Phoenix, Ariz. KTAR Broadcasting Co.	<b>KYA</b> 1230 1000 San Francisco, Calif. Pacific Broadcasting Corp.
<b>KTAT</b> 1240 1000 Fort Worth, Texas. Southwest Broadcasting Co.	<b>KYW</b> 1020 10000 Chicago, Ill. Westinghouse Elec. & Mfg. Co.
<b>KTBS</b> 1450 1000 Shreveport, La. Tri-State Broadcasting System.	<b>KZRM</b> 618.5 50008 Manila, P. I. Erlanger and Galinger, Inc. (KZEG)
<b>KTFI</b> 1240 1000 Twin Falls, Idaho. Radio Broadcasting Corp.	<b>NAA</b> 690 1000 Arlington, Va. United States Navy.
<b>KTHS</b> 1040 10000 Hot Springs, Ark. Chamber of Commerce.	<b>RUS</b> 664 500 San Salvador, E.'s. Republic of El Salvador.
<b>KTM</b> 780 500 Los Angeles, Calif. Pickwick Broadcasting Corp., Ltd.	<b>TGW</b> 1350 500 Guatemala, Gua. Gobierno de Guatemala.
<b>KTRH</b> 1120 1000 Houston, Texas. KTRH Broadcasting Co., Rice Hotel.	<b>TGX</b> 1380 75 Guatemala City
<b>KTSA</b> 1290 1000 San Antonio, Texas. Southwest Broadcasting Co.	<b>TICR</b> 912 75 San Jose, C. R. Government of Costa Rica.
<b>KTSM</b> 1310 100 El Paso, Texas. Tri-State Broadcasting Co., Inc.	<b>TIEA</b> 833 7.5 San Jose, C. R.
<b>KTW</b> 1220 1000 Seattle, Wash. First Presbyterian Church.	<b>TIEP</b> 1450 7.5 San Jose, C. R.

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<b>TIFB</b> 714	30	San Jose, C. R.	<b>WBAA</b> 1400	500	West Lafayette, Ind. Purdue University.
<b>TIFS</b> 1441	7.5	Cartago, C. R.	<b>WBAK</b> 1430	1000	Harrisburg, Pa. Commonwealth of Pennsylvania.
<b>TIGA</b> 1014	30	Cartago, C. R.	<b>WBAL</b> 1060	10000	Baltimore, Md. Consolidated Gas, Elec. Light & Power Co.
<b>TIGP</b> 666	75	San Jose, C. R.	<b>WBAP</b> 800	500000	Fort Worth, Texas. Carter Publications, Inc.
<b>TIRCA</b> 1100	600	San Jose, C. R. Perry Girtton, Apt. 225.	<b>WBAX</b> 1210	100	Wilkes-Barre, Pa. John H. Stenger, Jr., 70 S. Main St.
<b>TISO</b> 650	250	San Jose, C. R. P. F. Saborio, Apt. 1354	<b>WBBC</b> 1400	600	Brooklyn, N. Y. Brooklyn Broadcasting Corp.
<b>TITV</b> 999	7.5	San Jose, C. R.	<b>WBBL</b> 1210	100	Richmond, Va. Grace Covenant Presbyterian Church.
<b>TIVL</b> 869	30	San Jose, C. R.	<b>WBBM</b> 770	25000	Chicago, Ill. WBBM Broadcasting Corp., Wrigley Bldg.
<b>TIXA</b> 614	7.5	San Jose, C. R.	<b>WBBR</b> 1300	1000	Brooklyn, N. Y. Peoples Pulpit Assn.
<b>VAS</b> 685	2000	Glace Bay, N. S. Canadian Marconi Co., Ltd.	<b>WBBY</b> 1200	100	New Orleans, La. Samuel D. Reeks, Marber Hotel.
<b>VESEK</b> 1195	10	Montmagny, Que. J. A. Marquis, P. O. Box 57	<b>WBBZ</b> 1200	100	Ponca City, Okla. C. L. Carrell.
<b>VOAC</b> 800	40	St. John's, Nfld.	<b>WBCM</b> 1410	500	Bay City, Mich. James E. Davidson, Hotel Wenonah.
<b>VOAS</b> 810	100	St. John's, N. F. Ayre & Sons, Ltd.	<b>WBEN</b> 900	1000	Buffalo, N. Y. WBEN, Inc. (Buffalo Evening News.)
<b>VOGY</b> 1400	75	St. John's, N. F. Newfoundland Broadcasting Co.	<b>WBEO</b> 1310	100	Marquette, Mich. Lake Superior Broadcasting Co., Inc.
<b>VOKW</b> 1085	30	St. John's, N. F. Cyril L. Parkins.	<b>WBHS</b> 1200	100	Huntsville, Ala. Radio Station WBHS, Inc.
<b>VONF</b> 1195	400	St. John's, N. F. Dominion Broadcasting Co., Ltd., Box 1355.	<b>WBIG</b> 1440	500	Greensboro, N. C. North Carolina Broadcasting Co., Inc.
<b>VOWR</b> 900	500	St. John's, N. F. Wesley United Church, Box 157.	<b>WBNX</b> 1350	250	New York, N. Y. Standard Cahill Co., Inc.
<b>WAAB</b> 1410	500	Boston, Mass. Bay State Broadcasting Corp., 1 Winter Pl.	<b>WBOQ</b> 860	50000	New York, N. Y. Atlantic Broadcasting Corp.
<b>WAAF</b> 920	500	Chicago, Ill. Chicago Daily Drivers Journal.	<b>WBOW</b> 1310	100	Terre Haute, Ind. Banks of Wabash, Inc., 24½ S. 6th.
<b>WAAM</b> 1250	1000	Newark, N. J. WODAAM Corp., 1060 Broad St.	<b>WBRC</b> 930	500	Birmingham, Ala. Frank M. King, Receiver.
<b>WAAT</b> 940	300	Jersey City, N. J. Bremer Broadcasting Corp., 50 Journal Sq.	<b>WBRE</b> 1310	100	Wilkes-Barre, Pa. Louis G. Baltimore, 16 N. Main.
<b>WAAW</b> 660	500	Omaha, Neb. Omaha Grain Exchange.	<b>WBSS</b> 920	500	Babson Park, Mass. Broadcasting Service Organization, Inc.
<b>WABC</b> 880	50000	New York, N. Y. Atlantic Broadcasting Corp.	<b>WBT</b> 1080	25000	Charlotte, N. C. Station WBT, Inc., Wilder Bldg.
<b>WABI</b> 1200	100	Bangor, Maine. First Universalist Society.	<b>WBTM</b> 1370	100	Danville, Va. Piedmont Broadcasting Corp.
<b>WAGO</b> 1420	100	Waco, Texas. Southwest Broadcasting Co.	<b>WBZ</b> 990	25000	Boston, Mass. Westinghouse Elec. & Mfg. Co.
<b>WADC</b> 1320	1000	Akron, Ohio. Allen T. Simmons, P. O. Box 29.	<b>WBZA</b> 990	1000	Springfield, Mass. Westinghouse Elec. & Mfg. Co.
<b>WAGM</b> 1420	100	Presque Isle, Me. Aroostook Broadcasting Corp.	<b>WCAC</b> 600	250	Storrs, Conn. Connecticut Agricultural College.
<b>WAIU</b> 640	500	Columbus, Ohio. Associated Radiocasting Corp.	<b>WCAD</b> 1220	500	Canton, N. Y. St. Lawrence University.
<b>WALR</b> 1210	100	Zanesville, Ohio. WALR Broadcasting Corp.	<b>WCAE</b> 1220	1000	Pittsburgh, Pa. WCAE, Inc., Sun-Telegraph.
<b>WAMC</b> 1420	100	Anniston, Ala. R. C. Hammett, 1200 Noble St.	<b>WCAH</b> 1430	500	Columbus, Ohio. International Bible Students Assn.
<b>WAML</b> 1310	100	Laurel, Miss. Southland Radio Corp.	<b>WCAL</b> 1250	1000	Northfield, Minn. St. Olaf College.
<b>WAPI</b> 1140	5000	Birmingham, Ala. WAPI Broadcasting Corp.	<b>WCAM</b> 1280	500	Camden, N. J. City of Camden, City Hall.
<b>WARD</b> 1400	500	Brooklyn, N. Y. United States Broadcasting Corp.	<b>WCAO</b> 600	250	Baltimore, Md. Monumental Radio Co.
<b>WASH</b> 1270	500	Grand Rapids, Mich. Kunsky-Trendle Broadcasting Corp.	<b>WCAP</b> 1280	500	Asbury Park, N. J. Radio Industries Broadcast Co.
<b>WAWZ</b> 1350	250	Zarephath, N. J. Pillar of Fire.	<b>WCAT</b> 1200	100	Rapid City, S. D. South Dakota State School of Mines.
<b>WAZL</b> 1420	100	Hazleton, Pa. Hazleton Broadcasting Service, Inc.	<b>WCAU</b> 1170	50000	Philadelphia, Pa. WCAU Broadcasting Co., 1622 Chestnut.

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<b>WCAX 1200 100 Burlington, Vt.</b> Burlington Daily News, Inc.	<b>WEBR 1310 100 Buffalo, N. Y.</b> Howell Broadcasting Co., Inc., 735 Main.
<b>WCAZ 1070 50 Carthage, Ill.</b> Superior Broadcasting Service, Inc.	<b>WEDC 1210 100 Chicago, Ill.</b> Emil Denmark, 3860 Ogden Ave.
<b>WCBA 1440 250 Allentown, Pa.</b> B. Bryan Musselman, 39-41 10th St.	<b>WEED 1420 100 Greenville, N. C.</b> Wm. Avera Wynne.
<b>WCBD 1080 5000 Zion, Ill.</b> Wilbur Glenn Voliva.	<b>WEEI 590 1000 Boston, Mass.</b> Edison Elec. Illuminating Co.
<b>WCBM 1370 100 Baltimore, Md.</b> Baltimore Broadcasting Corp.	<b>WEEU 830 1000 Reading, Pa.</b> Berks Broadcasting Co., 533 Penn.
<b>WCBS 1210 100 Springfield, Ill.</b> WCBS, Inc., 2083 1/2 S. 5th.	<b>WEHC 1360 500 Charlottesville, Va.</b> Community Brcdstg. Corp.
<b>WCCO 810 50000 Minneapolis, Minn.</b> Northwestern Broadcasting, Inc.	<b>WEHS 1420 100 Cicero, Ill.</b> WEHS, Inc., 6138 W. 22nd St.
<b>WCFL 970 1500 Chicago, Ill.</b> Chicago Federation of Labor.	<b>WELL 1420 50 Battle Creek, Mich.</b> Enquirer News Co., 7 N. McCamly St.
<b>WCKY 1490 5000 Covington, Ky.</b> L. B. Wilson, Inc.	<b>WENC 1420 100 Americus, Ga.</b> Americus Broadcast Corp.
<b>WCLO 1200 100 Janesville, Wis.</b> WCLO Radio Corp.	<b>WENR 870 50000 Chicago, Ill.</b> Great Lakes Broadcasting Co.
<b>WCLS 1310 100 Joliet, Ill.</b> WCLS, Inc., 301 E. Jefferson St.	<b>WESG 1040 1000 Elmira, N. Y.</b> Elmira Star Gazette, Inc.
<b>WCNW 1500 100 Brooklyn, N. Y.</b> Arthur Faeko, 1525 Pitkin Ave.	<b>WEVD 1300 600 New York, N. Y.</b> Jewish Daily Forward, Hotel Claridge.
<b>WCOA 1340 500 Pensacola, Fla.</b> Pensacola Broadcasting Co.	<b>WEW 760 1000 St. Louis, Mo.</b> St. Louis University, 221 N. Grand Blvd.
<b>WCOC 880 500 Meridian, Miss.</b> Mississippi Broadcasting Co., Inc.	<b>WEXL 1310 50 Royal Oak, Mich.</b> Royal Oak Broadcasting Co.
<b>WCRW 1210 100 Chicago, Ill.</b> Clinton R. White, 2756 Pine Grove Ave.	<b>WFAA 800 50000 Dallas, Texas.</b> Morning News and Journal.
<b>WCSC 1360 500 Charleston, S. C.</b> South Carolina Broadcasting Co., Inc.	<b>WFAB 1300 1000 New York, N. Y.</b> Fifth Avenue Broadcasting Corp.
<b>WCSH 940 1000 Portland, Me.</b> Congress Square Hotel Co., 157 High.	<b>WFAM 1200 100 South Bend, Ind.</b> South Bend Tribune, 200 W. Colfax.
<b>WDAE 1220 1000 Tampa, Fla.</b> Tampa Publishing Co., Tampa Terrace.	<b>WFAS 1210 100 White Plains, N. Y.</b> Westchester Broadcasting Corp.
<b>WDAF 810 1000 Kansas City, Mo.</b> Kansas City Star Co.	<b>WFBC 1200 100 Greenville, S. C.</b> Greenville News-Piedmont Co.
<b>WDAG 1410 1000 Amarillo, Texas.</b> National Radio & Broadcasting Corp.	<b>WFBE 1200 100 Cincinnati, Ohio.</b> WFBE, Inc., Hotel Sinton.
<b>WDAH 1310 100 El Paso, Texas.</b> Tri-State Broadcasting Co., Inc.	<b>WFBG 1310 100 Altoona, Pa.</b> Gable Broadcasting Co. 12th Av. & 13th St.
<b>WDAS 1370 100 Philadelphia, Pa.</b> WDAS Broadcastg. Co., Inc., Broadwood Hotel.	<b>WFBL 1360 1000 Syracuse, N. Y.</b> Onondaga Radio Broadcasting Corp.
<b>WDAY 940 1000 Fargo, N. D.</b> WDAY, Inc., Black Bldg., 118 Broadway.	<b>WFBM 1230 1000 Indianapolis, Ind.</b> Indianapolis Power & Light Co.
<b>WDBJ 930 250 Roanoke, Va.</b> Times World Corp., 122 W. Church Ave.	<b>WFBT 1270 500 Baltimore, Md.</b> Baltimore Radio Show, Inc.
<b>WDBO 580 250 Orlando, Fla.</b> Orlando Broadcasting Co., Inc.	<b>WFDL 1310 100 Flint, Mich.</b> Flint Broadcasting Co.
<b>WDEL 1120 250 Wilmington, Del.</b> WDEL, Inc., 10th and King Sts.	<b>WFDV 1500 100 Rome, Ga.</b> Rome Broadcasting Corp., 10 3rd Ave.
<b>WDEV 550 500 Waterbury, Vt.</b> Harry C. Whitehill, Stowe St.	<b>WFEA 1430 500 Manchester, N. H.</b> New Hampshire Broadcasting Co.
<b>WDGY 1180 1000 Minneapolis, Minn.</b> Dr. Geo. W. Young, 909 W. Broadway.	<b>WFI 560 500 Philadelphia, Pa.</b> WFI Broadcasting Co., 801 Market.
<b>WDDO 1280 1000 Chattanooga, Tenn.</b> WDDO Broadcasting Corp., Hotel Patten.	<b>WFIW 940 1000 Louisville, Ky.</b> WFIW, Inc., 8th and Main Sts.
<b>WDRC 1330 1000 Hartford, Conn.</b> WDRC, Inc., Corning Bldg., 11 Asylum St.	<b>WFLA 620 1000 Clearwater, Fla.</b> Florida West Coast Broadcasting Co., Inc.
<b>WDSU 1250 1000 New Orleans, La.</b> Jos. H. Uhalt, On Hotel DeSoto.	<b>WFOX 1400 500 Brooklyn, N. Y.</b> Paramount Broadcasting Co., 1 Nevins St.
<b>WOZ 1070 100 Tuscola, Ill.</b> James L. Bush.	<b>WGAL 1310 100 Lancaster, Pa.</b> WGAL, Inc., 8 W. King St.
<b>WEAF 660 50000 New York, N. Y.</b> National Broadcasting Co., Inc.	<b>WGAR 1450 500 Cleveland, Ohio.</b> WGAR Broadcasting Co., Hotel Statler.
<b>WEAN 780 500 Providence, R. I.</b> Shepard Broadcasting Service, Inc.	<b>WGBB 1210 100 Freeport, N. Y.</b> H. H. Carman, 64 S. Grove St.
<b>WEBC 1290 1000 Superior, Wis.</b> Head of the Lakes Broadcasting Co.	<b>WGBF 630 500 Evansville, Ind.</b> Evansville On the Air, Inc.
<b>WEBQ 1210 100 Harrisburg, Ill.</b> Harrisburg Broadcasting Co.	<b>WGBI 880 250 Scranton, Pa.</b> Scranton Broadcasters, Inc.



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<b>WGCP 1250 250</b> Newark, N. J. May Radio Broadcasting Co.	<b>WHP 1430 580</b> Harrisburg, Pa. WHP, Inc., Harrisburg Telegraph.
<b>WGES 1380 500</b> Chicago, Ill. Oak Leaves Broadcasting Station, Inc.	<b>WIAS 1310 100</b> Ottumwa, Iowa. Iowa Broadcasting Co., Hotel Ottumwa.
<b>WGH 1310 100</b> Newport News, Va. Hampton Roads Broadcasting Corp.	<b>WIBA 1280 500</b> Madison, Wis. Badger Broadcasting Co., Inc.
<b>WGL 1370 100</b> Fort Wayne, Ind. F. C. Zieg, 213 W. Main St.	<b>WIBG 930 25</b> Glenside, Pa. WIBG, Inc., Keewick Bldg.
<b>WGLC 1370 100</b> Hudson Falls, N. Y. O. T. Griffin & G. F. Bissell.	<b>WIBM 1370 100</b> Jackson, Mich. WIBM, Inc., Otsego Hotel.
<b>WGN 720 25000</b> Chicago, Ill. WGN, Inc., Tribune Tower.	<b>WIBU 1210 100</b> Poynette, Wis. Wm. C. Forrest, R. F. D. No. 3.
<b>WQNY 1210 100</b> Chester, N. Y. Peter Goelet (Orange County).	<b>WIBW 580 1000</b> Topeka, Kans. Topeka Broadcasting Assn. Inc.
<b>WQR 650 1000</b> Buffalo, N. Y. Buffalo Broadcasting Corp.	<b>WIBX 1200 100</b> Utica, N. Y. WIBX, Inc., 1st Natl. Bank Bldg.
<b>WGST 890 250</b> Atlanta, Ga. Georgia School of Technology.	<b>WICC 600 250</b> Bridgeport, Conn. Shepard Broadcasting Service, Inc.
<b>WGY 790 50000</b> Schenectady, N. Y. National Broadcasting Co., Inc.	<b>WIL 1200 100</b> St. Louis, Mo. Missouri Broadcasting Corp.
<b>WHA 940 1000</b> Madison, Wis. University of Wisconsin.	<b>WILL 890 250</b> Urbana, Ill. University of Illinois.
<b>WHAD 1120 250</b> Milwaukee, Wis. Marquette University.	<b>WILM 1420 100</b> Wilmington, Del. Delaware Broadcasting Co., Inc.
<b>WHAM 1150 25000</b> Rochester, N. Y. Stromberg-Carlson Tel. Mfg. Co.	<b>WIND 580 1000</b> Gary, Ind. Johnson-Kennedy Broadcasting Corp.
<b>WHAS 820 25000</b> Louisville, Ky. Courier Journal & Louisville Times.	<b>WINS 1180 500</b> New York, N. Y. American Radio News Corp.
<b>WHAT 1310 100</b> Philadelphia, Pa. Curtis-Martin Newspapers, Inc.	<b>WIOD 1300 1000</b> Miami, Fla. Isle of Dreams Broadcasting Corp.
<b>WHAZ 1300 500</b> Troy, N. Y. Rensselaer Polytechnic Institute.	<b>WIP 610 500</b> Philadelphia, Pa. Pennsylvania Broadcasting Co.
<b>WHB 860 500</b> Kansas City, Mo. WHB Broadcasting Co., Scarritt Bldg.	<b>WIS 1010 580</b> Columbia, S. C. Station WIS, Inc., 1811 Main St.
<b>WHBC 1200 100</b> Canton, Ohio. Edw. P. Graham, 319 Tusc. St., W.	<b>WISN 1120 250</b> Milwaukee, Wis. American Radio News Corp.
<b>WHBD 1370 100</b> Mount Orab, Ohio. F. P. Moler.	<b>WJAC 1310 190</b> Johnstown, Pa. WJAC, Inc., Tribune Bldg. Annex.
<b>WHBF 1210 100</b> Rock Island, Ill. Rock Island Broadcasting Co.	<b>WJAG 1060 1000</b> Norfolk, Neb. Norfolk Daily News.
<b>WHBL 1410 500</b> Sheboygan, Wis. Press Publishing Co.	<b>WJAR 890 500</b> Providence, R. I. Outlet Co., Weybossett St.
<b>WHBQ 1370 100</b> Memphis, Tenn. Broadcasting Sta. WNBQ, Inc., Hotel Claridge.	<b>WJAS 1290 1000</b> Pittsburgh, Pa. Pittsburgh Radio Supply House.
<b>WHBU 1210 100</b> Anderson, Ind. Anderson Broadcasting Corp.	<b>WJAX 900 1000</b> Jacksonville, Fla. City of Jacksonville.
<b>WHBY 1200 100</b> Green Bay, Wis. WHBY, Inc., Bellin Bldg.	<b>WJAY 610 500</b> Cleveland, Ohio. Cleveland Radio Broadcasting Corp.
<b>WHDF 1370 100</b> Calumet, Mich. Upper Michigan Broadcasting Co.	<b>WJBC 1200 100</b> LaSalle, Ill. Kaskaskia Broadcasting Co.
<b>WHDH 830 1000</b> Boston, Mass. Matheson Radio Co., 62 Boylston.	<b>WJBI 1210 100</b> Red Bank, N. J. Monmouth Broadcasting Co., Inc.
<b>WHDL 1420 100</b> Tupper Lake, N. Y. Tupper Lake Broadcasting Co.	<b>WJBK 1370 50</b> Detroit, Mich. James F. Hopkins, Inc., Curtiss Bldg.
<b>WHEB 740 250</b> Portsmouth, N. H. Granite State Broadcasting Corp.	<b>WJBL 1200 100</b> Decatur, Ill. Commodore Broadcasting, Inc.
<b>WHEC 1430 500</b> Rochester, N. Y. WHEC, Inc., 40 Franklin St.	<b>WJBO 1420 100</b> Baton Rouge, La. Baton Rouge Broadcasting Co., Inc.
<b>WHEF 1500 100</b> Kosciusko, Miss. Attala Milling & Produce Co.	<b>WJBW 1200 100</b> New Orleans, La. C. C. Carlson, 2743 Dumaine St.
<b>WHET 1210 100</b> Troy, Ala. Troy Broadcasting Co.	<b>WJBY 1210 100</b> Gadsden, Ala. Gadsden Broadcasting Co., 112 N. 8th St.
<b>WHFC 1420 100</b> Cicero, Ill. WHFC, Inc., 6138 W. 22nd St.	<b>WJDX 1270 1000</b> Jackson, Miss. Lamar Life Insurance Co.
<b>WHIS 1410 250</b> Bluefield, W. Va. Daily Telegraph Printing Co., Inc.	<b>WJEJ 1210 100</b> Hagerstown, Md. Hagerstown Broadcasting Co., Inc.
<b>WHK 1390 1000</b> Cleveland, Ohio. Radio Air Service Corp.	<b>WJEM 990 500</b> Tupelo, Miss. Britt A. Rogers, Jr.
<b>WHN 1010 250</b> New York, N. Y. Marcus Loew Booking Agency.	<b>WJJD 1130 20000</b> Chicago, Ill. WJJD, Inc., 201 N. Wells St.

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**WJW 1210 100 Akron, Ohio.**  
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**WKBO 1200 100 Harrisburg, Pa.**  
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**WKBV 1500 100 Richmond, Ind.**  
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**WKBW 1480 5000 Buffalo, N. Y.**  
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**WKBZ 1500 100 Ludington, Mich.**  
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**WKEU 1500 100 LaGrange, Ga.**  
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**WKJC 1200 100 Lancaster, Pa.**  
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**WLAC 1470 5000 Nashville, Tenn.**  
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**WLAP 1200 100 Louisville, Ky.**  
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**WLB 1250 1000 Minneapolis, Minn.**  
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**WLBF 1420 100 Kansas City, Kans.**  
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**WLBL 900 2500 Stevens Point, Wis.**  
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**WLBW 1260 500 Erie, Pa.**  
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**WLBZ 620 500 Bangor, Me.**  
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**WLEC 1340 250 Portland, Me.**  
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**WMAZ 1180 500 Macon, Ga.**  
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**WMBQ 1500 100 Brooklyn, N. Y.**  
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**WMC 780 500 Memphis, Tenn.**  
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**WMMN 890 250 Fairmont, W. Va.**  
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**WMPC 1500 100 Lapeer, Mich.**  
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**WMT 600 500 Waterloo, Iowa.**  
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**WNAC 1230 1000 Boston, Mass.**  
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**WNAD 1010 500 Norman, Okla.**  
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**WNAX 570 1000 Yankton, S. D.**  
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**WNB 1500 100 Binghamton, N. Y.**  
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**WNBH 1310 100 New Bedford, Mass.**  
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**WNBO 1200 100 Silver Haven, Pa.**  
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**WNBK 1430 500 Memphis, Tenn.**  
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**WNBW 1200 100 Carbondale, Pa.**  
 WNBW, Inc., 50 Main St., N.  
**WNBX 1260 250 Springfield, Vt.**  
 WNBX Broadcasting Corp., 39 Main St.  
**WNBZ 1290 50 Saranac Lake, N. Y.**  
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**WNOX 550 1000 Knoxville, Tenn.**  
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**WNRA 1420 100 Muscle Shoals, Ala.**  
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**WOAI 1190 50000 San Antonio, Texas.**  
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<b>WHO</b> Central Broadcastg. Co., 914 Walnut St.	<b>WRAX</b> Broadcasting Co., 217 S. Broad St.
<b>WOCL 1210 50</b> Jamestown, N. Y. A. E. Newton, 840 N. Main St.	<b>WRBL 1200 100</b> Columbus, Ga. WRBL Radio Station, Inc.
<b>WODA 1250 1000</b> Paterson, N. J. WODAAM Corp., 115 Ellison St.	<b>WRB 1410 250</b> Roanoke, Va. Richmond Development Corp.
<b>WOLX 1410 500</b> Mobile, Ala. Mobile Broadcasting Corp., Battle House.	<b>WRC 950 500</b> Washington, D. C. National Broadcasting Co., Inc.
<b>WOI 640 5000</b> Ames, Iowa. Iowa State College.	<b>WRDO 1370 100</b> Augusta, Me. WRDO, Inc., Augusta House.
<b>WOKO 1430 500</b> Albany, N. Y. WOKO, Inc., Hotel Ten Eyck.	<b>WRDW 1500 100</b> Augusta, Ga. Virgil V. Evans Co., 309 8th St.
<b>WOL 1310 100</b> Washington, D. C. American Broadcasting Co., Annapolis Hotel.	<b>WREC 600 500</b> Memphis, Tenn. WREC, Inc., Hotel Peabody.
<b>WOMT 1210 100</b> Manitowoc, Wis. Francis M. Kadow, Box 326.	<b>WREN 1220 1000</b> Lawrence, Kans. Jenny Wren Co., 8th and Vermont St.
<b>WOOD 1270 500</b> Grand Rapids, Mich. Kunsky-Trendle Broadcasting Corp.	<b>WRHM 1250 1000</b> Minneapolis, Minn. Minnesota Broadcasting Corp., 115 E. Grand.
<b>WOPI 1500 100</b> Bristol, Tenn. Radiophone Broadcasting Station WOPI, Inc.	<b>WRJN 1370 100</b> Racine, Wis. Racine Broadcasting Corp., Hotel Racine.
<b>WOQ 1300 1000</b> Kansas City, Mo. Unity School of Christianity.	<b>WRNY 1010 250</b> New York, N. Y. Marcus Loew Booking Agency.
<b>WOR 710 5000</b> Newark, N. J. Bamberger Broadcasting Service, Inc.	<b>WROL 1310 100</b> Knoxville, Tenn. Stuart Broadcasting Corp., 524 S. Gay.
<b>WORC 1280 500</b> Worcester, Mass. Alfred F. Kleindienst, 60 Franklin St.	<b>WRR 1280 500</b> Dallas, Texas. City of Dallas, Hilton Hotel.
<b>WORK 1000 1000</b> York, Pa. York Broadcasting Co., 15 S. Beaver St.	<b>WFUP 830 5000</b> Gainesville, Fla. State University.
<b>WOS 630 500</b> Jefferson City, Mo. State Highway Control, Capitol Bldg.	<b>WRVA 1110 5000</b> Richmond, Va. Larus & Bro. Co., Inc., 22nd and Gary St.
<b>WOSU 570 750</b> Columbus, Ohio. Ohio State University.	<b>WSAI 1330 1000</b> Cincinnati, Ohio. Crosley Radio Corp., 1329 Arlington.
<b>WOV 1130 1000</b> New York, N. Y. International Broadcasting Corp.	<b>WSAJ 1310 100</b> Grove City, Pa. Grove City College.
<b>WOW 590 1000</b> Omaha, Neb. Woodmen of the World, 4th and Farnam.	<b>WSAN 1440 250</b> Allentown, Pa. WSAN, Inc., 39 10th St.
<b>WOWO 1160 10000</b> Fort Wayne, Ind. Main Auto Supply Co., 213 W. Main.	<b>WSAR 1450 250</b> Fall River, Mass. Doughty & Welch Electric Co., Inc.
<b>WPAD 1420 100</b> Paducah, Ky. Paducah Broadcasting Co., Inc.	<b>WSAZ 1190 1000</b> Huntington, W. Va. WSAZ, Inc., 929½ 4th Ave.
<b>WPAP 1010 250</b> New York, N. Y. Marcus Loew Booking Agency.	<b>WSB 740 50000</b> Atlanta, Ga. Atlanta Journal, 7 N. Forsyth St.
<b>WPEN 1500 100</b> Philadelphia, Pa. William Penn Broadcasting Co.	<b>WSBC 1210 100</b> Chicago, Ill. Gene T. Dyer, 1258 S. Michigan Ave.
<b>WPF 1370 100</b> Hattiesburg, Miss. Otis P. Eure, Box 530.	<b>WSBT 1230 500</b> South Bend, Ind. South Bend Tribune.
<b>WPG 1100 5000</b> Atlantic City, N. J. Columbia Broadcasting System.	<b>WSEN 1210 100</b> Columbus, Ohio. Columbus Broadcasting Corp., 144 S. High.
<b>WPHR 1200 100</b> Petersburg, Va. WLBG, Inc., Medical Arts Bldg.	<b>WSFA 1410 500</b> Montgomery, Ala. Montgomery Brdg. Co., Inc., Jeff. Dav. H'l.
<b>WPRO 1210 100</b> Providence, R. I. Cherry & Webb Broadcasting Co., 15 Chestnut.	<b>WSIX 1210 100</b> Springfield, Tenn. 638 Tire & Vulcanizing Co.
<b>WPTF 680 5000</b> Raleigh, N. C. Durham Life Insurance Co.	<b>WSJS 1310 100</b> Winston-Salem, N. C. Winston-Salem Journal Co., 416 N. Marshall.
<b>WQAM 560 1000</b> Miami, Fla. Miami Broadcasting Co., Inc., 327 N. E. 1st Ave.	<b>WSM 650 50000</b> Nashville, Tenn. National Life & Accident Insurance Co.
<b>WQAN 880 250</b> Scranton, Pa. Scranton Times, 149 Penn Ave.	<b>WSMB 1320 500</b> New Orleans, La. WSMB, Inc., Maison Blanche Bldg.
<b>WQAO 1010 250</b> New York, N. Y. Marcus Loew Booking Agency.	<b>WSMK 1380 200</b> Dayton, Ohio. S. M. Krohn, Jr., 4th and Main St.
<b>WQBC 1360 500</b> Vicksburg, Miss. Delta Broadcasting Co., Hotel Vicksburg.	<b>WSOC 1210 100</b> Charlotte, N. C. WSOC, Inc., Box 730.
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**WTAM 1070 50000 Cleveland, Ohio.**  
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**WTAR 780 500 Norfolk, Va.**  
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**XEAC 1295 100 San Luis Potosi, S.L.P.**  
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**XEAD 875 250 Mexico City, D. F.**  
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**XEAE 980 800 Tijuana, B. C.**  
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**XEAI 1090 100 Mexico City, D. F.**  
 Carlos Gonzales Caballero.  
**XEAN 750 5000 Juarez, Chih.**  
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**XEAO 560 100 Mexicali, B. C.**  
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**XEAW 965 10000 Reynosa, Tams.**  
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**XEB 1030 10000 Mexico City, D. F.**  
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**XED 1155 500 Guadalajara, Jal.**  
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**XEF 735 150000 Villa Acuna, Coah.**  
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**XEFA 1250 500 Mexico City, D. F.**  
 Eduardo Limon Segul.  
**XEFB 1315 100 Monterrey, N. L.**  
 Jesus Quintanilla.  
**XEFC 1050 100 Merida, Yuc.**  
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**XEFD 757 5000 Tijuana, B. C.**  
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**XEFG 1095 500 Mexico City, D. F.**  
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**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.**  
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**XEFS 1000 40 Queretaro, Qro.**  
 Salvador Sanchez.  
**XEFV 1370 100 Juarez, Chih.**  
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**XEFW 1290 70 Tampico, Tams.**  
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**XEN 711 1000 Mexico City, D. F.**  
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**XENT 1115 150000 Nuevo Laredo, Tams.**  
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**XEO 940 5000 Mexico City, D. F.**  
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<b>XEU 1018 100</b>	<b>Veracruz, Ver.</b> Fernando Pazos Sosa.
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<b>XEYZ 780 10000</b>	<b>Mexico City, D. F.</b> Radiodifusora Continental S. A.
<b>XEZ 830 600</b>	<b>Merida, Yuc.</b>
<b>XFB 1290 1000</b>	<b>Jalapa, Ver.</b> Gobierno del Estado de Veracruz.
<b>XFC 805 350</b>	<b>Aguascalientes, Ags.</b> Gobierno del Estado de Aguascalientes.
<b>XFG 838.3 2000</b>	<b>Mexico City, D. F.</b> Secretaria de Guerra y Marina.
<b>XFO 940 6000</b>	<b>Mexico City, D. F.</b> National Revolucionario Party.

<b>AFX 840 500</b>	<b>Mexico City, D. F.</b> Secretaria de Educacion Publica.
<b>YV1BC 960 6000</b>	<b>Caracas, Venez.</b> Cia Ama Alamacen Americana.
<b>YV2BC 882 100</b>	<b>Caracas, Venez.</b>
<b>YV3BC 1200 1000</b>	<b>Caracas, Venez.</b> Degwita & Sibless.
<b>10-AK 1200 15</b>	<b>Stratford, Ont.</b> M. I. Higgins, 151 Ontario St.
<b>10-AT 1155 25</b>	<b>Trail, B. C.</b> Trail Amateur Radio Assn.
<b>10-B1 1200 25</b>	<b>Prince Albert, Sask.</b> Prince Albert Radio Club.
<b>10-BP 1200 15</b>	<b>Wingham, Ont.</b> W. T. Cruickshank.
<b>10-BQ 1200 5</b>	<b>Brantford, Ont.</b> Tom and Harold Brown.
<b>10-BU 1200 15</b>	<b>Canora, Sask.</b> Canora Radio Assn.

## LISTENING *for* KJTY

**R**EAR-ADMIRAL BYRD'S station KJTY is going to be the most tuned-for station in the world in the next few months. KJTY will use fifteen different voice frequencies and will test with the Rocky Point stations of which there are 62. Of course all the 62 stations will not be used but as it is impossible to tell just

which ones will be, we deem it best to give them all with their frequencies and wave-lengths so our readers may try to bring in the much-to-be-desired KJTY.

Here are the frequencies and waves on which station KJTY, the S. S. "Jacob Ruppert," may be heard testing with voice transmissions:

Megs.	Mtrs.	Megs.	Mtrs.	Megs.	Mtrs.
6.650	45.09	13.185	22.74	17.600	17.03
6.660	45.01	13.200	22.71	17.620	17.01
6.670	44.95	13.230	22.66	21.515	13.93
8.820	33.99	13.245	22.63	21.600	13.88
8.840	33.91	13.260	22.61	21.625	13.86

Following are the 62 Rocky Point Experimental Stations with which KJTY will converse:

Megs.	Meters	Call	Megs.	Meters	Call	Megs.	Meters	Call
4.276	70.11	W1R	9.470	31.66	W1T	15.970	18.77	WKO
5.263	50.96	WQN	9.480	31.62	WDA	16.015	18.72	WQR
5.505	54.46	WQN	9.490	31.58	WBF	17.860	16.78	WQI
5.825	51.47	WQN	10.370	28.91	WCG	17.880	16.76	WQJ
6.710	44.68	WBR	10.610	28.25	WEA	17.900	16.75	WLL
6.718	44.62	WDB	10.620	28.20	WED	17.920	16.73	WQF
6.725	44.57	WQO	13.420	22.34	WHR	17.940	16.71	WQB
6.740	44.48	WEJ	13.435	22.31	WKD	18.860	15.89	WKM
6.928	43.27	WEZ	13.450	22.28	WEX	18.880	15.88	WQH
6.935	43.23	WEB	13.465	22.26	WKC	18.900	15.86	WDS
6.950	43.13	WKP	13.480	22.24	WJ	18.920	15.84	WQE
6.958	43.09	WEO	13.840	21.66	WPE	18.940	15.83	WTT
7.370	40.68	WJN	13.855	21.63	WQU	18.960	15.81	WQD
7.400	40.51	WEM	13.870	21.61	W1Y	18.980	15.79	WFX
7.415	40.43	WEG	13.900	21.57	WQP	20.100	14.91	WQY
8.930	33.57	WAD	13.915	21.54	WQS	20.180	14.85	WQX
8.930	33.57	WEC	14.800	20.26	WQV	20.260	14.79	WQQ
8.940	33.53	WKL	14.815	20.23	WQL	21.220	14.12	WQA
8.950	33.50	WEL	14.830	20.21	WKU	21.240	14.11	WQJ
9.448	31.74	WES	15.010	19.93	WQG	21.260	14.10	WBU
9.460	31.70	WKJ	15.445	19.41	WKW	21.300	14.07	WQQ

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

MIDNIGHT TO NOON (EST)

GMT	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00
AST	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
EST	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
CST	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
MST	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
PST	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
	W8XK W9XF	VK2ME W9XF	GSD GSF VK2ME	RV15 GSD GSF	RV15	J1AA RV15 VK2ME VK3ME	J1AA RV15 VK2ME VK3ME W1XAZ ZGE	EAR58 GSE CSG Rabat RV15 VE9DR VE9GW VK2ME VE9GW W1XAZ W8XK ZGE	DJB EAR58 GSE GSF H11A PHI Pont. VE9DR VE9GW VE9JR VK2ME W1XAZ W8XK YV2AM YV3BC ZGE	DJB GSD GSE GSF PHI Pont. VE9DR VE9GW VK2ME W1XAZ W8XK YV2AM YV3BC	CT3AQ DJB DJD GSD GSE GSF PHI Pont. VE9DR VE9GW W1XAL W1XAZ W8XK YV3BC	CT3AQ DJB DJD GSD GSF I2RO PHI VE9DR VE9GW VE9JR W1XAL W1XAZ W8XK YV3BC

NOON TO MIDNIGHT (EST)

GMT	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	1:00	2:00	3:00	4:00
AST	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
EST	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
CST	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
MST	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
PST	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
	DJB DJD GSD GSB GSF H11A I2RO Pont. TGW VE9DR VE9GW VE9JR W1XAL W1XAZ W2XE W3XAL W3XAU W8XK	DJB DJD GSD GSB GSF H11A I2RO Pont. VE9DR VE9GW VE9JR W1XAZ W3XAL W3XAU W8XK W9XF	DJB DJD GSD GSB GSF I2RO OXY Rabat VE9DR VE9GW VE9JR W1XAZ W3XAL W3XAU W8XK W9XF	DJB DJD GSD GSB GSF H11A I2RO OXY Rabat RV59 VE9DR VE9GW VE9JR W1XAZ W2XE W3XAL W3XAU W8XK W9XF YV3BC	CT1AA DJD GSD GSB GSF HIX I2RO OXY Pont. Rabat RV59 VE9DR VE9GW W1XAL W2XE W3XAL W3XAU W8XK W9XF YV3BC	CT1AA DJD GSD GSB GSF HIX I2RO OXY Pont. Rabat RV59 VE9DR VE9GW W1XAL W2XE W3XAL W3XAU W8XK W9XF YV3BC	CT1AA DJD GSD GSB GSF HIX I2RO OXY Pont. Rabat RV59 VE9DR VE9GW W1XAL W2XE W3XAL W3XAU W8XK W9XF YV3BC	DJA DJC EAQ GSA GSB GSD HJ1ABB HJ2ABA HJ4ABE Pont. VE9DR VE9GW VE9JR W1XAL W1XAZ W2XF W3XAL W3XAU W8XK W9XF XETE YV1BC YV3BC	DJA DJC H11A HJ1ABB 2ABA 4ABB 4ABE Pont. VE9DR VE9GW VE9HX VE9JR W1XAL W2XF W3XAL W3XAU W8XK W9XF XETE YV1BC YV3BC	HC2RL HJ 1ABB 2ABA 3ABD 4ABB 4ABE Pont. PRADO TGW VE9DR VE9GW VE9JR W1XAL W2XF W3XAL W3XAU W8XK XETE	HC2RL HJ 3ABD Pont. PRADO TGW VE9DR VE9GW VE9JR W1XAL W2XF W3XAL W3XAU W8XK XETE	HJ 4ABB VE9DR W1XAZ W3XAL W3XAU W8XK W9XF XETE

# One Hundred Best Short Wave Stations

## Arranged Alphabetically

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

- \*British Ships, 13.220, 8.831, 4.174  
 \*CEC, Chile, 19.678, 15.855  
 CGA, Canada, 13.296, 9.340  
 CNR, Morocco, 12.820  
 CP5, Bolivia, 6.081  
 CT1AA, Portugal, 9.592. Tues. and Fri., 4:30-7 p.m.  
 CT3AQ, Madeira, Tues., Thurs., 5-6:30 p.m.; Sun. 10:30 a.m.-noon.  
 DAF, Germany, 12.394  
 DFB, Germany, 17.512  
 DIQ, Germany, 10.285  
 DJA, Germany, 9.552. 5 to 9:15 p.m.  
 DJB, Germany, 15.190. 8 a.m. to 4:30 p.m.  
 DJC, Germany, 6.017. 7 to 9:15 p.m.  
 DJD, Germany, 11.753. 10 a.m. to 6 p.m.  
 DJL, Germany, 15.110  
 EAQ, Spain, 9.862. 5:30 to 7:30 p.m.  
 EAR58, Canaries, 7.207. 5 to 6:30 p.m.  
 EHY, Spain, 10.164  
 FTK, France, 15.863  
 FTM, France, 19.282  
 FZS, Indo-China, 11.983  
 \*German Ships, 13.135, 10.163, 8.328, 4.174  
 GAS, England, 18.304  
 GBB, England, 13.500  
 GBS, England, 12.148  
 GBW, England, 14.450  
 GSA, England, 6.050. 11 a.m. to 1 p.m.; 6 to 8 p.m.  
 GSB, England, 9.510. 11 a.m. to 1 p.m.; 1:15 to 5:45 p.m.; 6 to 8 p.m.  
 GSC, England, 9.585  
 GSD, England, 11.750. 2 to 4 a.m.; 9 to 11 a.m.; 1:15 to 5:45 p.m.; 6 to 8 p.m.  
 GSE, England, 11.865. 7 to 8:45 a.m.; 9 to 11 a.m.  
 GSF, England, 15.140. 2 to 4 a.m.; 9 a.m. to 1 p.m.  
 GSP, England, 17.770. 7 to 8:45 a.m.  
 HBL, Switzerland, 9.580. Sat., 5:30 to 6:15 p.m.  
 HBP, Switzerland, 7.872. Sat., 5:30 to 6:15 p.m.  
 HC2JB, Ecuador, 4.283. 9 to 11 p.m.  
 HC2UL, Ecuador, 6.659. Tues., 9:14 to 11:14 p.m.  
 HC2UB, Ecuador, 3.998. 8:14 to 10:14 daily, exc. Mon.  
 HCK, Ecuador, 5.694. 8 to 11 p.m.  
 HLX, Santo Domingo, 5.948. Tues. and Fri., 8 to 10 p.m.; Sun., 4 to 5 p.m.  
 HIZ, Santo Domingo, 6.379. 5-6 p.m.  
 HI-1-A, Santo Domingo, 6.272. 8-8:30 a.m.; 12:30-1:30 p.m.; 8-9 p.m.  
 \*HJB, Colombia, 14.930  
 \*HJY, Colombia, 18.444  
 HJ1AB, Colombia, 6.447. 5 to 10 p.m.  
 HJ2ABA, Colombia, 5.879. 7:30 to 10 p.m.  
 HJ3ABD, Colombia, 7.402. 9-11:15 p.m., daily  
 HJ4AB, Colombia, 7.139. Sat., 11 p.m. to Mid.; Sun. 3-5 p.m.; Wed., 8-10 p.m.  
 HJ4ABE, Colombia, 5.879. Mon., Wed., Fri., 7:30-9:30 p.m.  
 HJ5AB, Colombia, 6.378  
 HJ5ABF, Colombia, 8.271  
 HKN, Colombia, 7.138. 8-10 p.m., daily  
 \*HPP, Panama, 14.545.  
 HSP, Siam, 17.719  
 HVJ, Vatican City, 15.120  
 IAC, Italy, 12.785  
 I2R0, Italy, 11.800. 11:30 a.m. to 12:30 p.m.; 1:15 to 6 p.m.  
 J1AA, Japan, 9.862. 5 to 8 a.m.  
 KAY, Philippines, 14.980  
 KAZ, Philippines, 9.990  
 \*KKP, Hawaii, 16.024  
 LSN, Argentina, 9.895  
 LSX, Argentina, 10.345  
 LSY, Argentina, 18.116  
 \*OCI, Peru, 18.670  
 OXY, Denmark, 9.520. 2 to 6:30 p.m.  
 PHI, Holland, 11.725. 9-11 a.m., except Tues. and Wed  
 PLE, Java, 18.820  
 PLV, Java, 9.410  
 Pontoise, France, 15.454  
 Pontoise, France, 15.234. 8-11 a.m.  
 11.898. 11:30 a.m. to 1:15 p.m.  
 11.711. 3-5 p.m. and 6-11 p.m.  
 \*PPU, Brazil, 19.270  
 PRADO, Ecuador, 6.618. Thursday, 9-11 p.m.  
 \*PSF, Brazil, 14.682  
 Rabat, Morocco, 12.820. Sun. 7:30 to 9 a.m.  
 8.218. Sun. 2:30 to 5 p.m.  
 RV15, Siberia, 4.273. 3-9 a.m., daily  
 RV59, USSR, 5.996. 3-6 p.m., daily  
 RW50, USSR, 11.923  
 SII, Poland, 9.488. 1-3 p.m., Tues.; 8-9 a.m., Wed.  
 TGA, Guatemala, 14.545  
 TIN-TIU, Costa Rica, 14.545  
 TI4NRH, Costa Rica, 9.670. 10-11 p.m., daily  
 UOR2, Austria, 6.072. 8:30-9 a.m.; 10 a.m.-1 p.m. and 2-4 p.m. on Tuesdays.  
 VE9BJ, Canada, 6.090  
 VE9CS, Canada, 6.074  
 VE9DR, Canada, 6.005. 7:30 a.m. to Midnight; Sun., noon to 11:15 p.m.  
 VE9GW, Canada, 6.092. 3 p.m.-midnight  
 VE9HX, Canada, 6.110. 5-11 p.m., daily  
 VE9JR, Canada, 11.710. Sun., 9-10 p.m.; Sat., 9:30-10 a.m.; 11-11:30 a.m.; 12:45-1:15 p.m.; 7-8:30 p.m.; 9-10:30 p.m. Other days: 9:30-10 a.m.; 11-11:35 a.m.; 2-2:15 p.m.; 3:15-3:35 p.m.; 7-10:30 p.m.  
 VK2ME, Australia, 10.520.  
 9.585. Sun., 1 to 3 a.m.; 5 to 11 a.m.  
 VK3ME, Australia, 9.503. Wed., 5-6:30 a.m.; Sat., 5-7 a.m.  
 VNZ, India, 17.533  
 \*WNC, U. S. A., 15.055  
 W1XAL, U. S. A., 15.242. Sunday, 10 a.m.-1 p.m.  
 11.780. Sat., 5:30-11 p.m.; Sun., 6:30-8:30 p.m.  
 W2XAD, USA, 15.320. Sun., Mon., Wed., Fri., 4-5 p.m.  
 W2XAF, USA, 9.580. 7:45 to 11 p.m.  
 W2XE, U. S. A., 15.258. 11 a.m. to 1 p.m.  
 11.823. 3 to 5 p.m.  
 6.116. 6 to 11 p.m.  
 W3XAL, U. S. A., 17.772. 12:30 to 6:30 p.m. except Sat.  
 6.096. 3 p.m. to midnight, Saturday  
 W3XAU, USA, 9.585. Noon to 6 p.m.  
 6.057. 8 p.m. to 1 a.m.  
 W3XL, U. S. A., 6.421. Irregular  
 W8XK, U. S. A., 21.451. 7 a.m. to 2 p.m.  
 15.204. 10 a.m. to 4:15 p.m.  
 11.870. 4:30-10 p.m.  
 6.140. 4:30 p.m. to 12:30 a.m.  
 W9XAA, U. S. A., 6.076. 3 to 6 p.m.  
 W9XF, U. S. A., 6.100. Silent Sat.; Sun, 1-2:30 p.m.; 4:30-7 p.m.; 9 p.m. to 2 a.m.; other days, 4:30-8 p.m.; 9:30 p.m. to 2 a.m.  
 XAM, Mexico, 11.187  
 XETE, Mexico, 9.600. 2:30-5 p.m.; 6:30 p.m. to midnight  
 \*YNA, Nicaragua, 14.480. Phones Hialeah  
 \*YVQ, Venezuela, 13.337. Phones Hialeah  
 \*YVR, Venezuela, 18.296 and 9.168  
 YV1BC, Venezuela, 6.018. 5:15 to 10 p.m.  
 YV2AM, Venezuela, 7.138. Sun., 8-10 a.m.  
 YV3BC, Venezuela, 9.510. 9:30 to 10 p.m.  
 6.150. 10:30 a.m. to 1 p.m. and 4:30-9:30 p.m.; Sun., 8:30 a.m. to noon and 3-6:30 p.m.  
 \*ZFA, Bermuda, 5.045  
 \*ZFB, Bermuda, 10.060  
 ZFS, Bahamas, 4.513.  
 ZGE, Malaya, 5.996. Tues., Fri., 6:30-8:30 a.m. and Sun., 7-9 a.m.

# One Hundred Best Short Wave Stations

## By Frequencies and Wave Lengths

Submitted by our readers as being most regularly received. First column gives frequency in megacycles (for kilocycles read the decimal point as a comma) and the second column, wave-length in meters. Stations marked with an asterisk (\*) will not verify.

Broadcast, B.	Phone, P.		10.060	29.80	*ZFB, Hamilton, Bermuda	P	
4.174	71.82	*British Ships	P	10.164	29.79	EHY, Madrid, Spain	P
		*German Ships	P	10.285	29.15	DIQ Koenigs wusterhausen, Gerny.	Exp. P.
4.283	70.00	*Italian Ships	P	10.345	29.98	LSX, Buenos Aires, Argentina	P
		HC2JBB, Guayaquil, Ecuador	B	10.520	28.50	VK2ME, Sydney, Australia	P
4.513	66.43	ZFS, Nassau, Bahamas	P	11.174	26.83	CT3AQ Funchal, Madeira	B
5.045	59.42	*ZFA, Hamilton, Bermuda	P	11.187	26.80	XAM, Merida, Yucatan	P
5.694	52.65	HCK, Quito, Ecuador	B	11.710	25.60	VE9JR, Winnipeg, Man.	B
5.879	51.00	HJ2ABA, Tunja, Colombia	B	11.711	25.60	Pontoise, France	B
		HJ4ABE, Medellin, Colombia	B	11.725	25.57	PHI, Huizen, Holland	B
5.948	50.40	HIX, Santo Domingo, D. R.	B	11.750	25.51	GSD, Daventry, England	B
5.996	50.00	RV59, Moscow, USSR.	B	11.753	25.51	DJD, Zeesen, Germany	B
		ZGE, Kuala Lumpur, Malay	B	11.780	25.45	W1XAL, Boston, Mass.	B
6.005	49.93	VE9DR, Montreal, Quebec	B	11.800	25.40	I2RO, Rome, Italy	B
6.017	49.83	Zeesen, Germany	B	11.823	25.36	W2XE, Wayne, N. J.	B
6.018	49.80	YV1BC, Caracas, Venezuela	B	11.865	25.27	GSE, Daventry, England	B
6.050	49.56	GSA, Daventry, England	B	11.870	25.25	W8XK, Saxonburg, Pa.	B
6.057	49.50	W3XAU, Philadelphia, Pa.	B	11.923	25.16	RNE, Moscow, USSR.	B
6.069	49.40	OXY, Skamlebaek, Denmark	B	11.898	25.20	Pontoise, France	B
6.072	49.37	UO1Z, Vienna, Austria	B	11.983	25.02	FZS, Saigon, Indo-China	P
6.074	49.39	VE9CS, Vancouver, B. C.	B	12.394	24.19	SFZ, Norden, Germany	P
6.081	49.30	CP5, LaPaz, Bolivia	B	12.785	23.45	IAC, Coitana, Italy	P
6.090	49.23	VE9BJ, St. John, N. B.	B	12.820	23.38	CNK, Rabat, Morocco	P
6.092	49.22	VE9GW, Bowmanville, Ont.	B			Rabat, Morocco	B
6.096	49.17	W3XAL, Boundbrook, N. J.	B	13.135	23.00	*German Ships	P
6.100	49.15	W9PF, Chicago, Ill.	B	13.220	22.68	*British Ships	P
6.110	49.07	VE9HX, Halifax, N. S.	B	13.296	22.55	CGA, Drummondville, Quebec	P
6.116	49.02	W2XE, Wayne, N. J.	B	13.337	22.48	*YVQ, Maracay, Venezuela	P
6.140	48.83	W8XK, Saxonburg, Pa.	B	13.740	21.82	CGA, Drummondville, Quebec	P
6.150	48.78	YV3BC, Caracas, Venezuela	B	14.450	20.75	GBW, Rugby, England	P
6.272	47.80	HI-1-A, Santiago de los Caballeros, D.R.	B	14.480	20.70	LSN, Buenos Aires, Argentina	P
6.378	47.00	*HJ5ABB Cali, Colombia	B			YNA, Managua, Nicaragua	P
6.379	47.50	Santo Domingo, D. R.	B	14.545	20.69	*HPF, Panama City, Panama	P
6.425	46.66	W3XL, Boundbrook, N. J.	Exp.			TGA, Guatemala City, Guat.	P
6.447	46.50	HJ1ABB, Barranquilla, Colombia	B			TIN-TIU, Cartago, Costa Rica	P
6.618	45.31	PRADO, Riobamba, Ecuador	B	14.682	20.42	*PSF, Rio de Janeiro, Brazil	P
6.659	45.02	HC2RL, Guayaquil, Ecuador	B	14.930	20.08	*HJB, Bogota, Colombia	P
7.138	42.00	*HKN, Medellin, Colombia	B	15.110	19.84	DJL, Zeesen, Germany	B
		YV2AM, Maracaibo, Venezuela	B	15.140	19.83	HWJ, Vatican City	B
7.139	42.00	HJ4ABE, Medellin, Colombia	B	15.140	19.81	GSI, Daventry, England	B
7.207	41.60	EA1RS, Santa Cruz de Tenerife	B	15.190	19.73	DJB, Zeesen, Germany	B
7.402	40.50	*HJ3ABD, Bogota, Colombia	B	15.204	19.72	W8XK, Saxonburg, Pa.	B
7.872	38.47	HBP, Geneva, Switzerland	B	15.234	19.68	Pontoise, France	B
8.218	36.36	Rabat, Morocco	B	15.242	19.67	W1XAL, Boston, Mass.	B
8.271	36.25	HJ5ABF, Popayan, Colombia	B	15.258	19.65	W2XE, Wayne, N. J.	B
9.168	32.70	*YVR, Maracay, Venezuela	P	15.320	19.57	W2XAD, Schenectady, N. Y.	B
9.340	32.10	CGA, Drummondville, Quebec	P	15.454	19.40	Pontoise, France	B
9.488	31.60	SR1, Poznan, Poland	B	15.863	18.90	FTK, Ste. Assise, France	P
9.503	31.55	VK3ME, Melbourne, Australia	B	17.512	17.12	DTB, Nauen, Germany	P
9.510	31.53	GSB, Daventry, England	B	17.533	17.10	VWZ, Poona, India	P
		YV3BC, Caracas, Venezuela	B	17.580	17.05	*British Ships	P
9.520	31.49	OXY, Skamlebaek, Denmark	B	17.719	16.92	HSP, Bangkok, Siam	P
9.530	31.46	W2XAF, Schenectady, N. Y.	B	17.770	16.88	GSJ, Daventry, England	B
9.552	31.38	DJA, Zeesen, Germany	B	17.772	16.87	W3XAL, Boundbrook, N. J.	B
9.580	31.30	HLB, Geneva, Switzerland	B	18.116	16.55	LSY, Buenos Aires, Argentina	P
9.585	31.28	GSC, Daventry, England	B	18.296	16.39	*YVR, Maracay, Venezuela	P
		VK2ME, Sydney, Australia	B	18.444	16.25	*HJY, Bogota, Colombia	P
		W3XAU, Philadelphia, Pa.	B	18.670	16.06	*OCI, Lima, Peru	P
9.592	31.25	CT1AA, Lisbon, Portugal	B	18.820	15.93	PLE, Bandung, Java	P
9.600	31.23	XETE, Mexico City, D. F.	B	19.282	15.55	PTM, Ste. Assise, France	P
9.670	31.00	T14NRH, Heredia, Costa Rica	B	19.678	15.24	*CEC, Santiago, Chile	P
9.862	30.40	EAQ, Madrid, Spain	B	21.020	14.27	LSN, Buenos Aires, Argentina	P
9.895	30.30	J1AA, Kemikawa-Cho, Japan	B	21.451	13.93	W8XK, Saxonburg, Pa.	B
		LSN, Buenos Aires, Argentina	P				



# POLICE BROADCASTING STATIONS

## By Cities

City	Call	Megs.	Mtrs.	City	Call	Megs.	Mtrs.
Portable in Massachusetts	WPEV	1.574	190.48	Denver, Colo.	KGPX	2.442	122.77
Portable in Washington	.....	2.506	119.64	Des Moines, Iowa	KGHO	1.534	195.45
Port. on Snowplow in Snoqualmie Pass, Wash.	.....	2.506	119.64	Des Moines, Iowa	KGZG	2.470	121.40
Aberdeen, Wash.	KGZV	2.414	124.20	Detroit, Mich.	WCK	2.414	124.20
Akron, Ohio	WPDO	2.458	121.97	Detroit, Mich. (fireboat)	WKDT	1.558	192.43
Albany, N. Y.	WPGC	1.534	195.45	Detroit, Mich.	WPDX	2.414	124.20
Albuquerque, N. Mex.	KGZS	2.414	124.20	E. Lansing, Mich.	WRDS	1.574	190.48
Arlington, Mass.	WPED	1.712	175.13	El Paso, Texas	KGZM	2.414	124.20
Asheville, N. C.	WPFS	2.458	121.97	Fairhaven, Mass.	WPFN	1.712	175.13
Atlanta, Ga.	WFDY	2.414	124.20	Flint, Mich.	WPDF	2.442	122.77
Auburn, N. Y.	WPDN	2.458	121.97	Fort Wayne, Ind.	WPDZ	2.470	121.40
Bakersfield, Calif.	KGPS	2.414	124.20	Fort Worth, Texas	KGPR	1.712	175.13
Baltimore, Md.	WPFH	2.414	124.20	Frammingham, Mass.	WMP	1.574	190.48
Baton Rouge, La.	WPEQ	1.570	191.08	Fresno, Calif.	KGZA	2.414	124.20
Bay City, Mich.	WPGA	2.442	122.77	Grand Rapids, Mich.	WPEB	2.442	122.77
Beaumont, Texas	KGJ	1.712	175.13	Grosse Pointe, Mich.	WRDR	2.414	124.20
Berkeley, Calif.	KSW	1.658	180.83	Hackensack, N. J.	WPFK	2.430	123.45
Berkeley, Calif.	KSW	2.422	123.79	Hammond, Ind.	WPFJ	1.712	175.13
Birmingham, Ala.	WPFM	2.414	124.20	Highland Park, Ill.	WPDF	2.430	123.45
Boston, Mass. (Fireboat)	WEY	1.558	192.43	Highland Park, Mich.	WMO	2.414	124.20
Bronx, N. Y.	WPEF	2.450	122.40	Honolulu, Hawaii.	KGPK	2.450	124.20
Brookline, Mass.	WPEJ	1.712	175.13	Houston, Texas	KGZB	1.712	175.13
Brooklyn, N. Y.	WPEE	2.450	122.40	Indianapolis, Ind.	WMDZ	2.442	122.77
Brooklyn, N. Y.	WRDU	1.596	187.85	Jacksonville, Fla.	WPFQ	2.442	122.77
Buffalo, N. Y.	WNJ	2.422	123.79	Johnson City, Tenn.	WPR	2.470	121.40
Cedar Rapids, Iowa	KGOZ	2.470	121.40	Kansas City, Mo.	KGPE	2.422	123.79
Chanute, Kans.	KGZF	2.450	122.40	Klamath Falls, Ore.	KGZH	2.442	122.77
Charlotte, N. C.	WPDV	2.458	121.97	Knoxville, Tenn.	WPO	2.470	121.40
Chicago, Ill.	WPDB	1.712	175.13	Kokomo, Ind.	WPDY	2.442	122.77
Chicago, Ill.	WPDD	1.712	175.13	Lakeland, Fla.	WPP	2.442	122.77
Chicago, Ill.	WPDD	1.712	175.13	Lansing, Mich.	WPDZ	2.442	122.77
Cincinnati, Ohio	WKDU	1.712	175.13	Lexington, Ky.	WPE	1.712	175.13
Clarksburg, W. Va.	WFPF	2.414	124.20	Lincoln, Neb.	KGZU	2.470	121.40
Cleveland, Ohio	WRBH	2.458	121.97	Los Angeles, Calif.	KGPL	1.712	175.13
Coffeyville, Kans.	KGZP	2.450	122.40	Louisville, Ky.	WPE	2.442	122.77
Columbus, Ga.	WFFI	2.414	124.20	Lubbock, Tex.	KGZV	2.458	121.97
Columbus, Ohio	WFDI	2.430	123.45	Memphis, Tenn.	WPEC	2.470	121.40
Dallas, Texas	KVP	1.712	175.13	Miami, Fla.	WPEZ	2.442	122.77
Davenport, Iowa	KGPN	2.470	121.40	Milwaukee, Wis.	WPDK	2.450	122.40
Dayton, Ohio	WPDM	2.430	123.45	Milneola, N. Y.	WPGS	2.414	124.20
				Minneapolis, Minn.	KGPB	2.416	124.09

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City	Call	Megs.	Mtrs.	City	Call	Megs.	Mtrs.
Muskegon, Mich.	WPFC	2.442	122.77	Syracuse, N. Y.	WPEA	2.458	121.97
New Orleans, La.	WPEK	2.422	123.79	Tacoma, Wash.	KGZN	2.414	121.20
Newton, Mass.	WFFA	1.712	175.13	Toledo, Ohio	WRDQ	2.470	121.40
New York, N. Y.	WCF	1.596	187.85	Topoka, Kans.	KGZC	2.422	123.79
New York, N. Y.	WPEG	2.450	122.40	Tulare, Calif.	WPDA	2.414	124.20
Northampton, Mass.	WPEW	1.570	191.08	Tulsa, Okla.	KGPO	2.450	122.40
Oklahoma City, Okla.	KGPH	2.450	122.40	Utica, N. Y.		2.414	124.20
Omaha, Nebr.	KGPI	2.470	121.40	Vallejo, Calif.	KGPG	2.422	123.79
Palm Beach, Fla.	WFFX	2.442	122.77	Waco, Texas	KGZQ	1.712	175.13
Pasadena, Calif.	KGJX	1.712	175.13	Washington, D. C.	WPDW	2.422	123.79
Passaic, N. J.	WPDJ	2.414	124.20	W. Bridgewater, Mass.	WPBL	1.574	190.48
Pawtucket, R. I.	WPFY	2.470	121.40	Wichita, Kans.	KGZP	2.450	122.40
Philadelphia, Pa.	WPPD	2.470	121.40	Wichita Falls, Texas	KGZI	1.712	175.13
Phoenix, Ariz.	KGZJ	2.430	123.45	Woonsocket, R. I.	WPEM	2.470	121.40
Pittsburgh, Pa.	WPDU	1.712	175.13	Youngstown, Ohio	WPDG	2.458	121.97
Port Huron, Mich.	WPGV	2.414	124.20				
Portland, Me.	WPTU	2.422	123.79				
Portland, Ore.	KGPP	2.442	122.77				
Portsmouth, Ohio		2.430	123.45				
Providence, R. I.	WPEI	1.712	175.13				
Reading, Pa.	WPEE	2.442	122.77				
Richmond, Ind.	WPDH	2.442	122.77				
Rochester, N. Y.	WPRR	2.458	121.97				
Rockford, Ill.	WPGD	2.458	121.97				
Saginaw, Mich.	WPEB	2.442	122.77				
St. Louis, Mo.	KGPC	1.712	175.13				
St. Paul, Minn.	WPKS	2.416	124.09				
Salem, Ore.	KGZR	2.442	122.77				
Salt Lake City, Utah	KGPW	2.470	121.40				
San Antonio, Texas	KGZE	2.506	119.64				
San Bernardino, Calif.		1.712	175.13				
San Diego, Calif.	KGZD	2.430	123.45				
San Francisco, Calif.	KGPD	1.558	192.43				
San Francisco, Calif.	KGPD	2.470	121.40				
San Jose, Calif.	KGPM	2.470	121.40				
Santa Barbara, Calif.	KGZO	2.414	124.20				
Santa Cruz, Calif.	KGZT	2.470	121.40				
Seattle, Wash.	KGPA	2.414	124.20				
Seattle, Wash.	KIDA	2.506	119.64				
Shreveport, La.	KGZY	1.574	190.48				
Shreveport, La.	KGPI	1.712	175.13				
Sioux City, Iowa	KGPK	2.470	121.40				
Snoqualmie Pass, Wash.		2.506	119.64				
Somerville, Mass.	WPEH	1.712	175.13				
S. Schenectady, N. Y.	WPGC	1.534	195.45				
Swarthmore, Pa.	WPFQ	2.470	121.40				

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