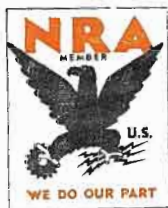


THE NOVEMBER 1933

RADIO INDEX

THE ALL-WAVE RADIO MAGAZINE



30 cents
in Canada
Including
Tax

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

No. 73

NOVEMBER 1, 1933



RADIO INDEX

Reg. U. S. Patent Office

FRED CLAYTON BUTLER

Editor and Publisher



B. FRANCIS DASHIELL
Technical Editor

PAGE TAYLOR
Short Wave Editor

TENTH YEAR

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'1 JS-1'

NOVEMBER DX CALENDAR

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

SUNDAY MORNINGS

Nov. 5-12-19-26

- 12:00-1:00—CMBW, Havana, Cuba, 1140 (.6)
 CMX, Havana, Cuba, 890 (1.)
 KSO, Des Moines, 1370 (1.)
 XETW, Mexico City, 830 (.5)
 12:00-3:00—CMCD, Havana, Cuba, 925 (.5)
 WGES, Chicago, 1360 (.5)
 1:00-2:00—WPOD, Chattanooga, 1280 (1.)
 1:00-2:30—XEAB, Tamaulipas, 1450 (7.5)
 1:00-4:00—CMBD, Havana, Cuba, 965 (.25)
 2:00-5:00—KPJM, Prescott, Ar., 1500 (1.)
 3:00-4:00—KFXX, San Bernardino, 1210 (1.)
 KGER, Long Beach, 1360 (1.)
 3:00-5:00—CKOV, Kelowna, B. C., 1200 (1.)
 10-AT, Trail, B. C., 1155 (.025)
 3:00-6:00—XEFD, Tijuana, 757 (5)
 4:00-5:00—CFJC, Kamloops, 1120 (1.)
 CMJK, Camaguey, 790 (.5)

*P. O. Box 1441, San Diego, Calif.

Nov. 5

- 1:00-2:00—WVAE, Hammond, 1200 (1.)
 2:30-4:30—10-BI, Prince Albert, 1200 (.025)
 3:00-5:00—KPCB, Seattle, 850 (1.)
 4:00-5:00—WCSH, Portland, Me., 940 (2.5)

Nov. 5-19

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

Nov. 12-19-26

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

Nov. 12

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

*Wants 5c for verification.

Nov. 19

- 1:30-2:30—WEMJ, Milwaukee, 620 (1.)
 2:00-3:00—WBBX, New Orleans, 1200 (1.)
 WJEL, Hagerstown, 1210 (1.)
 *WNBX, Springfield, Vt., 1260 (.25)
 3:00-7:00—KGR, Butte, 1360 (.5)
 4:00-5:00—KFBB, Great Falls, 1280 (1.)
 KFJZ, Fort Worth, 1370 (1.)
 4:00-6:00—WFBC, Greenville, 1200 (.25)
 XEFV, Juarez, 1370 (1.)

Nov. 26

- 2:00-3:00—WQL,* Washington, 1310 (1.)
 3:00-4:00—WGLC, Hudson Falls, 1370 (1.)
 3:00-5:00—WPAE, White Plains, 1210 (1.)
 WHAZ, Troy, N. Y., 1300 (.5)
 XEFV, Juarez, 1370 (1.)

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

Dec. 3

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

MONDAY MORNINGS

Nov. 6-13-20-27

- 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)

Nov. 6

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

Nov. 27

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

Nov. 13

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

Nov. 20-27

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

TUESDAY MORNINGS

Nov. 7-14-21-28

- 12:00-1:00—XEH, Monterrey, 1132 (.25)
 1:00-1:30—WFGC, Savannah, 1260 (.5)
 1:00-3:00—CMCW, Havana, 965 (1.5)
 1:00-4:00—WSTI, Iowa City, 880 (.5)
 4:00-5:00—WCAH, Columbus, 1430 (.5)
 5:00-6:00—WAWZ, Zarephath, 1350 (.25)

Nov. 7

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

Nov. 28

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

WEDNESDAY MORNINGS

Nov. 1

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

Nov. 8

- 2:00-3:00—WJMS, Ironwood, 1420 (1.)

Nov. 15

- 3:00-4:00—WHBQ, Memphis, 1370 (1.)
 3:00-7:00—WOP1, Bristol, 1500 (1.)

Nov. 22

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

THURSDAY MORNINGS

Nov. 2-9-16-23-30

- 2:00-4:00—CMK, Havana, 730 (5.)

WEDC, Chicago, 1210 (1.)

Nov. 2

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

Nov. 9

- 12:00-3:00—WCNW, Brooklyn, 1500 (1.)

Nov. 23

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

Nov. 30

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

FRIDAY MORNINGS

Nov. 3-10-17-24

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

Nov. 17

- 12:00-2:00—KIDO, Boise, 1350 (1.)

Nov. 24

- 3:00-5:00—XED, Guadalupe, 1155 (.5)

- 4:00-5:00—KPOF, Denver, 880 (.5)

Dec. 1

- 2:00-3:00—WRAW, Reading, 1310 (1.)

SATURDAY MORNINGS

Nov. 4-11-18-25

- 12:00-1:30—WMBC, Detroit, 1420 (1.)
 1:00-3:00—CMCW, Havana, 965 (1.5)
 4:00-5:00—XEAO, Mexicali, 560 (1.)

Nov. 4

- 3:00-4:00—WJBC, La Salle, 1200 (1.)

- 3:00-5:00—XEFV, Juarez, 1370 (1.)

Nov. 4-18

- 2:00-3:00—XES, Tampico, 1020 (.5)

Nov. 11-18-25

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

Nov. 11

- 2:00-4:00—XEFV, Juarez, 1370 (1.)

- 3:15-4:15—WMBQ, Brooklyn, 1500 (1.)

- 4:00-5:00—10-BQ, Brantford, 1200 (.005)

Nov. 25

- 1:00-7:00—WHET, Troy, Ala., 1210 (1.)

- 4:00-5:00—CHRC, Quebec, 645 (1.)

Dec. 2

- 4:00-11:00—KFNF, Shenandoah, 870 (1.)

THE MONTHLY FREQUENCY CHECKS

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

	560 kcs.	KMLB	Monroe, La., Tue. 3:40
KFDM	Beaumont, Tex., Sat. 5:00	XKVOS	Bellingham, Wash., Mon. 6:10
WQAM	Miami, Fla., Thur. 4:20	.KWG	Stockton, Calif., Tue. 4:00
	570 kcs.	WABI	Bangor, Maine, Mon. 2:40
XKGKO	Wichita Falls, Tex., Sun. 5:00	WBBX	New Orleans, La., Tue. 4:40
WSYR	Syracuse, N. Y., Mon. 5:00	WBBZ	Ponca City, Okla., Wed. 4:20
	580 kcs.	XWBHS	Huntsville, Ala., Tue. 2:10
WDBO	Orlando, Fla., Thur. 4:00	WCAT	Rapid City, S. D., Fri. 3:50
	590 kcs.	WCAX	Burlington, Vt., Mon. 3:00
XWKZO	Kalamazoo, Mich., Sat. 3:50	WCLO	Janesville, Wis., Fri. 4:30
	600 kcs.	WFAM	South Bend, Ind., Sat. 3:40
XWCAC	Storrs, Conn., Mon. 5:10	WFBC	Greenville, S. C., Thur. 2:20
XWICC	Bridgeport, Conn., Mon. 4:40	WFBE	Cincinnati, Ohio, Fri. 4:10
	610 kcs.	WHBC	Canton, Ohio, Wed. 3:10
WJAY	Cleveland, Ohio, Sat. 4:00	WHBY	Green Bay, Wis., Thur. 3:00
	630 kcs.	WIBX	Utica, N. Y., Mon. 3:20
XKGFY	Pierre, S. D., Sun. 4:40	WIL	St. Louis, Mo., Wed. 5:20
	750 kcs.	WJBC	LaSalle, Ill., Sat. 3:00
KGU	Honolulu, T. H., Tues. 5:30	WJBL	Decatur, Ill., Fri. 4:50
	760 kcs.	WJBW	New Orleans, La., Tue. 5:10
WEW	St. Louis, Mo., Sat. 5:20	WLAP	Louisville, Ky., Fri. 5:50
	880 kcs.	XWNBO	Silverhaven, Pa., Mon. 4:30
XKFKA	Greeley, Colo., Sun. 5:30	XWNBW	Carbondale, Pa., Wed. 2:10
XKPOF	Denver, Colo., Sun. 5:10	XWPHR	Petersburg, Va., Wed. 2:50
WCOC	Meridian, Miss., Thurs. 4:50	WRBL	Columbus, Ga., Tue. 2:50
WSUI	Iowa City, Iowa, Sat. 5:40	WWAE	Hammond, Ind., Sat. 3:20
	890 kcs.		1210 kcs.
KARK	Little Rock, Ark., Sun. 4:50	KASA	Elk City, Okla., Sat. 3:30
	900 kcs.	KDLR	Devils Lake, N. D., Sat. 4:30
XKGBU	Ketchikan, Alaska, Mon. 4:10	XKFJI	Klamath Falls, Ore., Mon. 7:00
WLBL	Stevens Point, Wis., Wed. 5:10	KFPW	Fort Smith, Ark., Sat. 3:10
	920 kcs.	KFVS	Cape Girardeau, Mo., Sat. 4:10
KPRC	Houston, Tex., Sat. 4:40	KGCR	Watertown, S. D., Sat. 5:10
WAAF	Chicago, Ill., Wed. 5:40	KGY	Olympia, Wash., Mon. 4:40
	940 kcs.	KIEM	Eureka, Calif., Tue. 4:40
WAAT	Jersey City, N. J., Mon. 4:50	WALR	Zanesville, Ohio, Fri. 3:40
WHA	Madison, Wis., Wed. 5:20	WBAX	Wilkes-Barre, Pa., Mon. 3:50
	950 kcs.	WBBL	Richmond, Va., Wed. 3:20
KGHL	Billings, Mont., Sat. 4:20	WCBS	Springfield, Ill., Thur. 4:40
	990 kcs.	WCRW	Chicago, Ill., Fri. 5:30
WJEM	Tupelo, Miss., Thur. 4:40	WEBQ	Harrisburg, Ill., Thur. 4:00
	1010 kcs.	WEDC	Chicago, Ill., Thur. 3:20
XWNAD	Norman, Okla., Sun. 5:20	WFAS	White Plains, N. Y., Mon. 2:10
	1040 kcs.	WGBB	Freeport, N. Y., Sat. 2:50
WESG	Elmira, N. Y., Mon. 4:30	WGCM	Mississippi City, Miss., Thur. 2:50
WKAR	E. Lansing, Mich., Wed. 5:30	WGNV	Chester, N. Y., Sat. 2:30
	1070 kcs.	WHBF	Rock Island, Ill., Thur. 4:20
WCAZ	Carthage, Ill., Wed. 4:40	XWHBU	Anderson, Ind., Thur. 5:20
WDZ	Tuscola, Ill., Wed. 5:00	WHET	Troy, Ala., Tue. 3:10
	1100 kcs.	WIBU	Poynette, Wis., Fri. 5:10
KGDM	Stockton, Cal., Tues. 6:00	WJBI	Red Bank, N. J., Sat. 2:10
	1120 kcs.	WJBU	Sunbury, Pa., Mon. 4:50
XKFIO	Spokane, Wash., Mon. 6:50	XWJBY	Gadsden, Ala., Tue., 2:30
XKRSC	Seattle, Wash., Mon. 6:30	WJW	Akron, Ohio, Fri. 3:00
KTRH	Houston, Tex., Sat. 3:00	XWKFI	Greenville, Miss., Tue. 4:00
WHAD	Milwaukee, Wis., Wed. 4:30	WMBG	Richmond, Va., Mon. 4:10
WISN	Milwaukee, Wis., Wed. 4:50	WOCL	Jamestown, N. Y., Wed. 3:50
WTAW	College Station, Tex., Sat. 3:20	WOMT	Manitowoc, Wis., Thur. 5:40
	1200 kcs.	WQDX	Thomasville, Ga., Tue. 2:00
KBTM	Paragould, Ark., Wed. 3:50	WSBC	Chicago, Ill., Thur. 3:40
KERN	Bakersfield, Calif., Tues. 4:20	WSEN	Columbus, Ohio, Fri. 3:20
KFJB	Marshalltown, Iowa, Wed. 4:40	WSIX	Springfield, Tenn., Tue. 5:30
KFXD	Nampa, Idaho, Mon. 5:00	WSOC	Charlotte, N. C., Thur. 2:00
KFXJ	Grand Junction, Colo., Fri. 3:10; Sat. 4:50	WTAX	Springfield, Ill., Thur. 5:00
KGDE	Fergus Falls, Minn., Wed. 5:00		1220 kcs.
KGEK	Yuma, Colo., Fri. 3:30	WCAD	Canton, N. Y., Mon. 4:00
KGHI	Little Rock, Ark., Wed. 3:30	XWDAE	Tampa, Fla., Thur. 4:30
KGVO	Missoula, Mont., Mon. 4:20		

	1230 kcs.		1370 kcs.
KFQD	Anchorage, Alaska, Mon. 5:50	KCRC	Enid, Okla., Fri. 4:10
KGGM	Albuquerque, N. M., Sat. 5:50	>KFBL	Everett, Wash., Mon. 4:50
	1240 kcs.	KFJM	Grand Forks, N. D., Thur. 4:30
KGCU	Mandan, N. D., Fri. 4:00	KFJZ	Fort Worth, Tex., Fri. 4:50
KLPM	Minot, N. D., Fri. 4:20	KGAR	Tucson, Ariz., Tue. 5:40
WKAQ	San Juan, P. R., Thur. 3:10	KGFG	Oklahoma City, Fri. 4:30
	1250 kcs.	KGFL	Roswell, N. M., Wed. 4:10
WCAL	Northfield, Minn., Wed. 4:30	>KGKL	San Angelo, Tex., Thur. 3:30
WLB	Minneapolis, Minn., Wed. 5:10	>KICA	Clovis, N. M., Wed. 3:20
	1260 kcs.	KLUF	Galveston, Texas, Thur. 3:10
>KRGV	Harlingen, Tex., Sun. 4:20	KMAC	San Antonio, Tex., Thur. 3:50
>KUAO	Fayetteville, Ark., Sun. 5:40	KONO	San Antonio, Tex., Thur. 4:10
>KWWG	Brownsville, Tex., Sun. 4:00	KOOS	Marshfield, Ore., Mon. 4:30
>WMBX	Springfield, Vt., Mon. 4:10	KRE	Berkeley, Calif., Tue. 5:20
WTOC	Savannah, Ga., Thur. 5:10	>KJL	Walla Walla, Wash., Mon. 5:30
	1270 kcs.	>KVL	Seattle, Wash., Mon. 5:10
KGCA	Decorah, Iowa, Sat. 4:00	WBTM	Danville, Va., Mon. 2:30
KWLC	Decorah, Iowa, Sat. 3:40	WGL	Fort Wayne, Ind., Sat. 3:10
	1280 kcs.	WGLC	Hudson Falls, N. Y., Mon. 3:50
>WRR	Dallas, Tex., Sun. 4:30	WHBD	Mt. Orab, Ohio, Thur. 5:10
	1290 kcs.	WHBQ	Memphis, Tenn., Tue. 2:20
KLCN	Blytheville, Ark., Sun. 3:00	WHDF	Calumet, Mich., Fri. 5:20
>KUSA	San Antonio, Tex., Sun. 3:40	WIBM	Jackson, Mich., Thur. 5:30
>WEBC	Superior, Wis., Wed. 3:00	WJBK	Detroit, Mich., Fri. 5:00
WNBZ	Saranac Lake, N. Y., Mon. 4:20	WLVA	Lynchburg, Va., Mon. 3:00
	1310 kcs.	WMBR	Tampa, Fla., Tue. 3:00
KCRJ	Jerome, Ariz., Tue. 5:50	>WPFB	Hattiesburg, Miss., Tue. 4:20
KFGQ	Boone, Iowa, Thur. 4:20	WQDM	St. Albans, Vt., Mon. 3:30
KFPL	Dublin, Tex., Fri. 3:40	WRAK	Williamsport, Pa., Mon. 2:10
KFPM	Greenville, Tex., Thur. 3:40	WRAM	Wilmington, N. C., Tue. 5:00
KFXR	Oklahoma City, Okla., Fri. 3:20	>WRJN	Racine, Wis., Fri. 5:40
KFYO	Lubbock, Tex., Thur. 4:00	WSVS	Buffalo, N. Y., Mon. 3:30
KGBX	Springfield, Mo., Thur. 5:00		1380 kcs.
>KGCX	Wolf Point, Mont., Mon. 5:40	WKBY	LaCrosse, Wis., Sat. 5:30
>KGEX	Kalispell, Mont., Mon. 5:20		1400 kcs.
>KGFV	Kearney, Neb., Thur. 5:20	KOCW	Chickasha, Okla., Sun. 3:50
>KIFH	Juneau, Alaska, Mon. 6:00		1410 kcs.
KIT	Yakima, Wash., Mon. 6:20	KFLV	Rockford, Ill., Wed. 3:50
>KMED	Medford, Ore., Mon. 7:10	WBCM	Bay City, Mich., Wed. 3:30
KRMD	Shreveport, La., Fri. 3:00	WHBL	Sheboygan, Wis., Wed. 4:10
KTSM	El Paso, Tex., Thur. 3:20	WHIS	Bluefield, W. Va., Wed. 2:30
>KXRO	Aberdeen, Wash., Mon. 6:40	WODX	Mobile, Ala., Thur. 5:00
WAML	Laurel, Miss., Tue. 5:20	WRBX	Roanoke, Va., Thur. 3:10
WBEO	Marquette, Mich., Wed. 4:20		1420 kcs.
WBOW	Terre Haute, Ind., Wed. 4:00	KABC	San Antonio, Tex., Fri. 4:40
>WBRE	Wilkes-Barre, Pa., Mon. 4:20	KMCC	Texarkana, Ark., Thur. 5:10
WCLS	Joliet, Ill., Fri. 4:40	>KFIZ	Fond du Lac, Wis., Thur. 3:50
WDAH	El Paso, Tex., Thur. 3:00	KGFF	Shawnee, Okla., Thur. 5:30
WEBR	Buffalo, N. Y., Wed. 2:00	KGJW	Trinidad, Colo., Wed. 3:10
WEXL	Royal Oak, Mich., Fri. 4:20	>KGIX	Las Vegas, Nev., Tue. 5:00
>WFBG	Altoona, Pa., Wed. 2:40	KIDW	Lamar, Colo., Wed. 3:40
WFDF	Flint, Mich., Fri. 4:00	KORE	Eugene, Ore., Mon. 7:20
WHAT	Philadelphia, Pa., Mon. 2:50	KWCR	Cedar Rapids, Iowa, Fri. 5:00
WIAS	Ottumwa, Iowa, Thur. 4:40	WAGO	Waco, Tex., Wed. 4:50
WJAC	Johnstown, Pa., Mon. 2:00	>WAGM	Presque Isle, Me., Mon. 2:30
>WKBBX	E. Dubuque, Ill., Wed. 3:00	WAMC	Anniston, Ala., Tue. 3:50
>WKBC	Birmingham, Ala., Thur. 2:30	WAZL	Hazleton, Pa., Mon. 3:20
>WLBC	Muncie, Ind., Sat. 3:30	WELL	Battle Creek, Mich., Fri. 3:30
WMBO	Auburn, N. Y., Mon. 3:40	>WENC	Americus, Ga., Tue. 4:30
WRAW	Reading, Pa., Mon. 4:40	WHDL	Tupper Lake, N. Y., Mon. 2:50
WROL	Knoxville, Tenn., Tue. 4:50	>WHPC	Cicero, Ill., Thur. 3:30
WSAJ	Grove City, Pa., Wed. 2:20	>WJBO	Baton Rouge, La., Thur. 2:40
WSJS	Winston, Salem, N. C., Tue. 3:20	WJMS	Ironwood, Mich., Thur. 3:10
>WTEL	Philadelphia, Pa., Mon. 3:10	WLBZ	Kansas City, Kans., Fri. 5:20
WTRS	Jackson, Tenn., Tue. 4:10	>WMAS	Springfield, Mass., Sat. 2:00
	Elkhart, Ind., Wed. 3:20	WMBZ	Detroit, Mich., Fri. 3:50
	1320 kcs.	WMBH	Joplin, Mo., Fri. 5:40
KGHF	Pueblo, Colo., Wed. 5:30	>WPAD	Paducah, Ky., Fri. 3:10
KGMB	Honolulu, T. H., Tue. 5:10	WSPA	Spartanburg, S. C., Thur. 2:10
	1340 kcs.	>WTBO	Cumberland, Md., Mon. 3:40
>KGDY	Huron, S. D., Sun. 4:10		1430 kcs.
>KGNO	Dodge City, Kans., Sat. 3:50	WNBR	Memphis, Tenn., Thur. 4:10
WCOA	Pensacola, Fla., Thur. 3:40	WOKO	Albany, N. Y., Sat. 3:00
	1350 kcs.		1440 kcs.
WAWZ	Zarephath, N. J., Sat. 4:10	KLS	Oakland, Calif., Tue. 4:50
>WBNX	New York, N. Y., Sat. 3:50	>KXYZ	Houston, Tex., Sun. 3:30
WEHC	Charlottesville, Va., Wed. 3:30	WBIG	Greensboro, N. C., Thur. 3:30
	1360 kcs.		1450 kcs.
WCSC	Charleston, S. C., Thur. 3:20	>KTBS	Shreveport, La., Sun. 3:10
WQBC	Vicksburg, Miss., Thur. 3:50		

(Continued on page 87)

The BEGINNERS'

STORY of RADIO

PART TWO

Alternating Currents and Electricity

• • • By B. FRANCIS DASHIELL

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

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

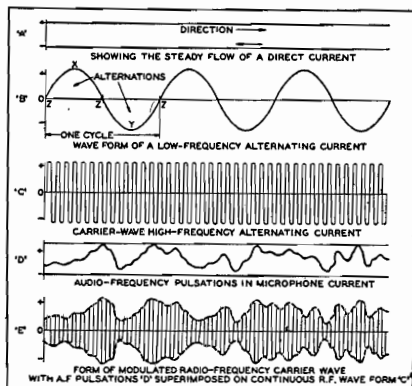
First, we see the *direct-current*, shown in "A"; it flows steadily and never changes its direction. Then there is a slowly vibrating current, with a long wavelike form, as shown by "B." A rapidly vibrating current, with short, wavelike form, is indicated at "C." Now, when direct-current, shown at "A,"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

A.F. and R.F.

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

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

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



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

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

A.C. and D.C.

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

However, when the pressure behind

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

The 60-cycle Current

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

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

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

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

The Mysterious Power

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

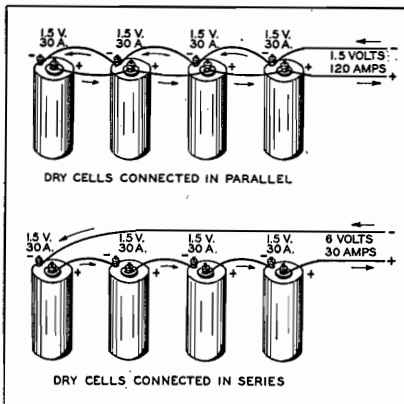
Electricity can be generated by chemical action in a *battery*. The simple voltaic *cell* is the basic form. It consists of two dissimilar metals, zinc and copper, immersed in a dilute acid solution. A current will flow through a wire connecting the two metals. The *dry cell*, a more prac-

ticable form, is essentially similar. Its zinc container, the negative terminal, holds the moist paste acid electrolyte and the central carbon (similar to copper but cheaper) positive electrode. Our B batteries are made up of a large number of small dry cells. *Storage batteries* retain the direct-current sent into them from an outside source (charging operation) because of certain chemical changes in the solution and plates. Single dry cells give $1\frac{1}{2}$ volts and storage cells give 2 volts each. Connecting single cells in *series* adds the voltages of the individual cells together but does not increase the quantity of available current beyond the capacity of one of the single cells. *Parallel* connections do not increase the voltage of the entire group beyond that of a single cell, but adds the total quantity of current available together.

Terms of Measurement

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

(Continued on page 86)



OVER *the* Editor's DESK

• • • *The Monthly Confab*

DAY by day, in every way" we are growing bigger and bigger.

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

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

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

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

The Broadcasting Business

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



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

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

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

The Radex Converter

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

That Fly-Weight All-Wave

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

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

Use the Codes

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

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

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

Punishing the Outlaws

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



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

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

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

Says Thank You

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

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

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

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

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



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

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

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

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

With Only One Tube

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

(Continued on page 87)

GOSSIP *from* Radio's White Way

• • • By "BETTY"

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

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

His Fight Upward

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

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

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

The Southern Melodies

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



Willard Robison

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

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

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

Your "Cousin Anna"

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

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



Agnes Moorehead

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

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

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

Out of the Parsonage

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

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

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

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

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

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

Almost a Druggist

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

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



Eddie Duchin

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

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

His Originality Horrifies

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

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

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

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

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



Vee Lawnhurst and John Seagle

A Popular Team

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

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

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

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

Dramatizing the News

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

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

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

* * *

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

* * *

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

* * *

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

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

* * *

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

* * *

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

* * *

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

* * *

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

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

LOGGING *the* Elusive STATION

• • • *With the RADEXERS*

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

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

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

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

From Down Under

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

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

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

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

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



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

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

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

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

Some Foreign Programs

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

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

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

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

It Was Hot In Texas

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

A DX REPORT

*W J Y Shenectoday
General store
New York
State*
*sir
i am guide for hunter man wrot
come at dis place lac-des ille for
hunting deer deer hunter man bring
it with him machine for hear your
spike from far place i listen wit
his saturday nite also tuesday nite
i hear song bout my ole moulder
date long tam i dont see my moulder
an i long date dame fine song
also i hear oder song i dont see
de name tuesday nite storie for
de small boy and girl bout mak
de star shine for dem if dey is good
boy and girl hunter man i loff lak
hell an tole me ax you how we
make some moon shine
i hear you spike jus de same lak
your at me place i ting you hear
good machine i listen more
nex wick
thank you and much abblig
Gilda Camilla Foster
Chenar P.O. Saulte Canada*

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

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

Logging the TP's

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

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

Hours of NAA

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



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

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

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

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

DX In Summer

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

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

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

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



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

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

Boiled Down

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

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

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

Gets RXKR In Nova Scotia

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

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

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

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

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

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



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

good 5 kc. separation."

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

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

(Continued on page 36)

Let's CLEAN UP *the* SET

● ● ● By B. FRANCIS DASHIELL

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

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

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

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

Condensers Must Be Clean

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

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

First, the chassis must be removed



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

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

Instructions For Cleaning

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

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

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

Use Great Care

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

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

The Compensating Condensers

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

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

(Continued on page 85)

Simple Remedies for COMPLEX TROUBLES

• • • By the TECHNICAL EDITOR

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

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

About 2-Volt Tubes

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

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



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

Needs Realignment

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

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

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

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

Volume Control

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

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

Phones on Lafayette

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

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

No Substitute For A-22

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

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

Radio Starting Switch

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

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

Radex Converter and Philco

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

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

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

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

Short Wave Coils

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

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

New Majestic Tubes

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

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

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

Tubes In RCA 66

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

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

Tube Changes In Victor

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

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

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

Receiver Oscillates

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

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

Set Changes Its Tone

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

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

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

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

Philco 470 Control

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

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

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

Majestic Tube Renewals

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

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

LATEST NEWS *of the* Short Wave WORLD

• • • By PAGE TAYLOR

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

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

From Asia

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

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

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

From Central America

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

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



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

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

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

From Russia

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

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

From Europe

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

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

From South America

Several readers report very good reception of the new Bolivian station, CP5 of LaPaz. One of these reporters is our Official Auditor, R. W. Evans, 832 Richie Ave., Lima, Ohio, who heard CP5 on 6070 kc/s near 9:30-10 pm, EST. Other information contributed by this correspondent follows: "YV3BC in Caracas, Venezuela, has changed the frequency to about 6160 kc/s and is heard here very well after 5:30 pm. TGW is received fairly well on about 6180 kc/s. HVJ on 15.110 megs. is heard with fair volume from 10 to 10:30 am. VE9DR has changed frequency to about 6060 kc/s."

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

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

From Japan

It seems that short wave reception in Japan differs but very little from reception here, judging from a letter received from Mr. Shokichi Yoshimura of Moji. Mr. Yoshimura writes as follows: "Now short wave reception is slightly noisy and weak, owing to the altered ionization here, so PHI, Pontoise and GSG come in a poor condition, however, I was fortunate to report that, since May to date I have received a number of verifications from WIXAZ, W8XK, W3XAL, GSC, GSD, DJD, HBL, GAA, PCV, SUV, ORK, ZGE and KAY and am now awaiting for veries from IAC, IBEL, LSY, etc. There follow some particulars of the new Bandoeng station, PKIWK. It is owned and operated by J. F. W. deKort, Bragaweg 34, Bandoeng, Java.



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

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

How to Identify

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

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

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

- TI4NRH uses bugle calls between selections.

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

- HJ1ABB announces "La Voz de

-Barranquilla."

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

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

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

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

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

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

CT1AA uses a cuckoo call repeated three times.

HVJ announces "Radio-Vatican."

VE9HX

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

T14NRH

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

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

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

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

A New Member

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

Some Short Reports

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

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

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

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

From Our Auditors

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

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

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

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

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



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

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

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

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

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

I2RO has been just fair, while Pon-toise has been very poor. YVQ has been coming in good of late, around 2-3 pm."

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

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

MY EXPERIENCE

with the JO Stations

• • • *By A. R. CALOW**

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

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

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

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

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

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

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

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

Japs do Test

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

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

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

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

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

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

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

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

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

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

Those Elusive Stations

(Continued from page 22)

Some DX Tips

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

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

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

From the Stations

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

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

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

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

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



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

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

Some Club News

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

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

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

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

The DX CONTEST for FOREIGN Stations

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

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

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

List of Awards

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

Second Award, the famous Ollie

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

Third Award, a large, handsome world wall map.

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

Second Special Award, a Reeks sliding scale time converter.

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

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

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

Good Advice to DXers

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

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

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

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

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

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

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

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

A LETTER for GERMAN Stations

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

(German translation)

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

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

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

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

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

Ihr Aufrichtigster

He Couldn't Believe It

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

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

(Continued on page 72)

AROUND *the* CLOCK

on the SHORT WAVES

MIDNIGHT TO NOON (EST)

GMT	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00
AST	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
EST	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
CST	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
MST	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
PST	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
	W8XK W9XF	GSD GSF VK2ME W9XF	GSD GSF VK2ME	RV15	RV15	J1AA RV15 VK2ME VK3ME	GSF GSF J1AA RV15 VK2ME VK3ME W1XAZ ZGE	EAR58 GSF GSF PHI Rabat RV15 PHI VE9DR Rabat VK2ME VE9GW W1XAZ W8XK ZGE	DJB EAR58 GSF GSF HI1A PHI Pont. VE9DR Rabat VE9DR VE9GW VK2ME W1XAZ W8XK	DJB GSE GSF GSF PHI Pont. VE9DR VE9JR VK2ME W1XAZ W8XK	CT3AQ DJB DJD GSE GSF HVJ Pont. VE9GW W1XAL W1XAZ W8XK	CT3AQ DJB DJD GSB GSE GSF I2RO Pont. VE9DR VE9GW VE9JR W1XAL W1XAZ W2XE W3XAU W8XK

NOON TO MIDNIGHT (EST)

GMT	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	1:00	2:00	3:00	4:00
AST	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
EST	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
CST	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
MST	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
PST	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
	DJB DJD GSB GSE HI1A I2RO Pont. TGW VE9DR VE9GW VE9JR W1XAL W1XAZ W2XE W3XAL W3XAU W8XK	DJB DJD EAQ GSB HI1A I2RO Pont. VE9DR VE9GW VE9JR W1XAZ W3XAL W3XAU W8XK W9XF	DJB DJD EAQ GSB GSD I2RO OXY Rabat VE9DR VE9GW VE9JR W1XAZ W2XAD W3XAL W3XAU W8XK W9XF	DJA DJB DJD GSB GSD HI4ABB I2RO OXY Rabat RV59 VE9DR VE9GW VE9JR W1XAZ W2XE W3XAL W3XAU W8XK W9XF W3XAU W8XK	CT1AA DJA DJD GSB GSD EAR58 GSB GSD HBL HBP OXY Pont. Rabat RV59 VE9DR VE9GW W1XAL W2XE VE9DR VE9GW W1XAZ W2XE W3XAL W3XAU W8XK W9XF W9XF YV1BC YV3BC	CT1AA DJA DJD EAQ GSB EAR58 GSB GSD HBL HBP OXY Pont. Rabat RV59 VE9DR VE9GW W1XAL W2XE VE9DR VE9GW W1XAZ W2XE W3XAL W3XAU W8XK W9XF XETE YV1BC YV3BC	CT1AA DJA DJD EAQ GSB HI2ABA HI4ABE HBL HBP OXY Pont. VE9JR VE9DR W1XAL W1XAZ W2XAF W2XE W3XAL W3XAU W8XK W9XF XETE YV1BC YV3BC	DJA DJC HI1A GSD HI1ABB HI2ABA HI4ABE 4ABE Pont. PRADO TGW VE9DR VE9GW VE9JR W1XAL W1XAZ W2XAF W2XE W3XAL W3XAU W8XK W9XF XETE YV1BC YV3BC	HJ . . . IABB 2ABA 3ABD 4ABB 4ABE Pont. PRADO TGW VE9DR VE9JR W1XAL W1XAZ W2XAF W2XE W3XAL W3XAU W8XK W9XF XETE	HJ . . . 3ABD Pont. PRADO TGW NRH VE9DR VE9GW VE9JR W1XAL W1XAZ W2XE W3XAL W3XAU W8XK W9XF 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. 7 to 9 p.m.
 DJB, Germany, 15,190. 8 a.m. to 6:30 p.m.
 DJC, Germany, 6,017. 7 to 9 p.m.
 DJD, Germany, 11,753. 10 a.m. to 6 p.m.
 EAQ, Spain, 9,862. 5:30 to 7 p.m. daily and 1-3 p.m. Sat.
 EHY, Spain, 10,164
 FTM, France, 19,282
 FZS, Indo-China, 11,983
 *German Ships, 13,135, 10,163, 8,328, 4,174
 GAS, England, 18,304
 GBB, England, 13,500
 GBS, England, 12,148
 GBW, England, 14,450
 GSA, England, 6,050. 1 to 5:30 p.m.
 GSB, England, 9,510. 11:30 a.m.-12:30 p.m.; 1-5:30 p.m.; 6-8 p.m.
 GSC, England, 9,585
 GSD, England, 11,750. 1-3 a.m.; 1-5:30 p.m.; 6-8 p.m.
 GSE, England, 11,865. 9:30 a.m.-12:30 p.m.
 GSF, England, 15,140. 1-3 a.m.; 6-8 a.m.; 8:30-11:30 a.m.
 GSG, England, 17,770. 6 to 8 a.m.; 8:30 to 10:30 a.m.
 HBI, Switzerland, 9,580. Sat., 5 to 5:45 p.m.
 HBI, Switzerland, 7,872. Sat., 5 to 5:45 p.m.
 HI-1-A, Santo Domingo, 6,272. 8-8:30 a.m.; 12:30-1:30 p.m.; 3-9 p.m.
 *HJB, Colombia, 14,930
 *HJV, Colombia, 18,444
 HJ1ABB, Colombia, 5,793. 8-10 p.m. daily
 HJ2ABA, Colombia, 5,879. 7:30 to 10 p.m.
 HJ3ABD, Colombia, 7,402. 9-11:15 p.m., daily
 HJ4ABB, Colombia, 7,139. Sat., 11 p.m. to Mid.; Sun. 3-5 p.m.; Wed. 8-10 p.m.
 HJ4ABE, Colombia, 5,879. Mon., Wed., Fri.; 7:30-9:30 p.m.
 HJ5ABB, Colombia, 6,378
 HJ5ABF, Colombia, 8,271
 HKN, Colombia, 7,138. 8-10 p.m., daily
 HSP, Siam, 17,719
 HVI, Vatican City, 15,120
 IAC, Italy, 12,785
 IZRO, Italy, 11,800. 11:30 a.m. to 12:30 p.m.; 1:15 to 6 p.m.
 J1A, 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, 18,870
 OXY, Denmark, 9,520. 2 to 6:30 p.m.
 PHI, Holland, 17,761. 8-10 a.m. Mon., Tues., and Fri.; 8 to 10:30 a.m. Sat. and Sun.
 PLV, Java, 9,410
 Pontoise, France, 15,234. 8-11 a.m.
 11,898. 11:30 a.m. to 1:15 p.m.
 11,711. 3-5 p.m. and 6-11 p.m.
 *PPU, Brazil, 19,270
 PRADO, Ecuador, 6,618. Thursday, 9-11 p.m.
 *PSF, Brazil, 14,682
 Rabat, Morocco, 12,820. Sun, 7:30 to 9 a.m.
 8,218. Sun, 2:30 to 5 p.m.
 *RXF, Panama, 14,545
 RV15, Siberia, 4,273. 3-9 a.m., daily
 RV59, USSR, 5,996. 3-6 p.m., daily
 RW50, USSR, 11,923
 SRI, Poland, 9,488. 1-3 p.m., Tues.; 8-9 a.m., Wed.
 TGA, Guatemala, 14,545
 TIR, 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
 VE9DH, 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. Sunday, 1-3 a.m.; 4:30-8:30 a.m.; 9-11 a.m.
 VK3ME, Australia, 9,503. Wed., 6-6:30 a.m.; Sat., 5-7 a.m.
 VNP, Bahamas, 4,513
 VVZ, India, 17,533
 *W2A, U. S. A., 10,601
 *W2F, U. S. A., 9,488
 *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, U. S. A., 15,320. Mon., Wed., Fri., 3-4 p.m.; Sun, 2-4 p.m.
 W2XAF, U. S. A., 9,530. 7 p.m. to 1 a.m.
 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.
 6,098. 8 p.m. to midnight, Saturday
 W3XAU, U. S. A., 9,585. 11 a.m. to 5 p.m.
 6,057. 7 p.m. to midnight
 W3XL, U. S. A., 6,421. Irregular
 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, 13,296 and 9,168
 YV1BC, Venezuela, 6,112. 5:15 to 10 p.m.
 YV2AM, Venezuela, 14,102. Sun., 6:30 to 11:30 a.m.
 YV3BC, Venezuela, 9,510. 9:30 to 10 p.m.
 6,134. 10:30 a.m. to 1 p.m. and 4:30-9:30 p.m.; Sun., 8:30 a.m. to noon and 3-6:30 p.m.
 *ZFA, Bermuda, 5,045
 *ZFB, Bermuda, 10,060
 ZGE, Malaya, 5,996. Tues., Fri., 6:30-8:30 a.m. and Sun., 7-9 a.m.

WHAT'S ON THE AIR TONIGHT?

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

COLUMBIA.....(C)	
Call	Dial

NATIONAL, Red (R)	
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 — Walter Logan's Ensemble

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

B — Richard Himber and Orchestra

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

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

C — H-Bar-O Rangers

WAAB WABC WCAU WDRC WEAN
 WFBL WGR 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 WGST WHEC
 WHK WHP WJSV WKBW WLAC
 WLBW WMBG WOKO WORC WQAM
 WREC WSFA WSJS WTAR WTOG

F — Dinner Music

CFBO CFCE CFCH CFCO CFCY
 CFNB CFPL CHGS CHNS CHRC
 CJCB CKCH CKNC CKOC CKPC
 CKPR CRCA CRCO CRCS CRT

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

R — Horsensense Philoophy; Andrew Kelly

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

B — Lowell Thomas

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

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

C — Myrt and Marge

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

R — Mollie Show; Charlie Leland

KSD WBEN WCAE WCSH WDAF

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

B — Amos 'n' Andy

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

F — Harvey Robb, Organist

Stations same as 6:30 Monday

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

C — Just Plain Bill

CFRB CKLW WABC WCAO WCAU
 WGR WHK WJSV WKRC WNAC

R — Billy Bachelor; Ray Knight

WEAF WGY WJAR WRC WTAG
 WTAM WWJ

B — Baby Rose Marie, Songs

KDKA WBAL WBZ WBZA WHAM
 WJZ WMAL WSYR

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

C — Music in the Air

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

R — Lum and Abner

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

B — Richfield Country Club

CRCT KDKA WBAL WBZ WBZA
 WHAM WJZ WMAL WSYR

F — Chamber Music

Stations same as 6:30 Monday

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

C — Boake Carter; Philco

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

R — The Goldbergs

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

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

C — Happy Bakers

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

R — Soconyland Sketches—Drama

WBEN WCSH WEAF WEEL WGY
 WJAR WTAG WTIC

B — Frank Black's String Symphony

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

F — Blackfoot Trails

CFAC CFBO CFCE CFCH CFCN
 CFCO CFCY CFNB CFPL CFQC
 CHAB CHGS CHNS CHRC CHWC
 CJCA CJCB CJCJ CJGJ CJOC
 CJRM CJRW CKCH CKCK CKNC
 CKOC CKPC CKPR CKUA CKY
 CKY CRCA CRCO CRCS CRT

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 WFBN WGN WGR WHK
 WJAS WJSV WKRC WNAC WOKO
 WSPD

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

C — Bing Crosby

CKLW KDB KERN KFBK KFPY
 KFRC KGB KHL KLZ KMBC KMJ
 KMOX KOIN KOL KSL KVI KWG
 WABC WADC WCAO WCAU WDRC
 WEAN WFBL WFBN WGN WGR
 WHAS WHK WJAS WJSV WKRC
 WNAC WOKO WOWO WSPD

R — Johns-Manville; Floyd Gibbons

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

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

B — Red Davis—Dramatic Sketch

KDKA WBAL WBZ WBZA WHAM
 WJR WJZ WLS WSYR

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

C — Evening in Paris

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

R — A. & P. Gypsies

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

F — Hour of Gaiety and Romance

CFAC CFBO CFCE CFCH CFCN
 CFCO CFCY CFIC CFNB CFPL
 CFQC CHAB CHGS CHNS CHRC
 CHWC CHWK CJCA CJCB CJCJ
 CJGJ 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

MONDAY—(Continued)

KWCR KWK WBAL WBZ WBZA
WDAY WEBC WFAA WFLA WGAR
WHAM WIBA WIOD WIS WJAX
WJDX WJR WJZ WKY WLS WLW
WMC WOAI WPTF WREN WRVA
WSB WSM WSMB WTMJ WWNC

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

CFRB KFH KLRA KLZ KMBC
KMOX KOMA KSL KTRH K TSA
KVOR WABC WACO WADC WBIG
WBRC WCAO WCAU WCCO WDBJ
WDRG WDSU WFBL WFBM WFEA
WGST WHAS WHP WBW WISN
WJAS WJWZ WKWB WLWB WMBD
WMBG WOKO WORC WPG WQAM
WREC WSBT WSJS WTAR WTOG

E-9:30 p.m., C-8:30, M-7:30, P-6:30
C—Isham Jones; Lulu McConnell

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

R—Del Monte Ship of Joy

KDYL KOA KPRC KSD KSTP
KTBS KVOO WBNB WCAE WCHS
WEAF WEBC WEEI WFAA WFBM
WFLA WGY WHO WIOD WIS
WJAR WJAX WKBF WKY WLIT
WMAQ WOAI WOC WOV WRC
WRVA WSAI WTAG WTAM WTMJ
WWJ WWNC

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

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
WDRG WEAN WFBL WFBM WGR
WHAS WHK WJAS WJSV WKRC
WOKO WOVO WSPD

R—Contented Program
CFPC CRTCT KDYL KFI KFYR
KGO KGW KHQ KOA KOMO KPRC
KSTP WCHS WEAF WEBC WEEI
WFBM WJAR WLIT WMC WOAI
WRC WSB WSM WTAG

E-10:30 p.m., C-9:30, M-8:30, P-7:30
R—Jules Lande, Violinist

KSD WBNB WCAE WCHS WDAF
WEAF WEEI WFBM WGY WHO
WIOD WIS WJAR WLIT WLW
WMAQ WOC WOV WRC WTAG
WTAM WTIC WWJ WWNC

F—Luigi Romanelli's Orchestra
Stations same as 9:00 Monday

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

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

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C—Howard Barlow's Symphony

CKLW KFH KLRA KLZ KMBC
KOMA KTRH K TSA KVOR WAAB

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

B—Amos 'n' Andy

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

F—Musical Cavalcade
Stations same as 9:00 Monday

E-11:15 p.m., C-10:15, M-9:15, P-8:15
C—Columbia News Service

CFRB CKLW KFH KLRA KLZ
KMBC KMOX KOMA KTRH K TSA
KVOR WAAB WABC WACO WADC
WBIG WBRG WCCO WDBJ WDRG
WDSU WEAN WFBM WGST WHAS
WHP WBW WICC WISN WJAS
WJSV WKWB WLAC WLWB WMBD
WMBG WMT WOKO WORC WPG
WQAM WREC WSBT WSJS WTAR
WTOG

R—Lum and Abner

KFYR KSD WDAF WENR WHO
WIBA WKBW WOC WOW WTAM
WTMJ

E-11:30 p.m., C-10:30, M-9:30, P-8:30
C—Joe Haymes and Orchestra

CFRB CKLW KFH KLRA KLZ
KMBC KOMA KTRH K TSA KVOR
WABC WADC WBRC WCAO WCAU
WDBJ WDRG WDSU WEAN WFBL
WFBM WGST WHAS WHK WHP
WIBW WICC WISN WJSV WKWB
WLAC WLWB WMBD WMBG WMT
WNAC WOKO WORC WPG WQAM
WREC WSBT WSJS WTAR WTOG

TUESDAY

E-6:00 p.m., C-5:00, M-4:00, P-3:00
C—Buck Rogers, See Monday

R—Walter Logan, See Monday

B—Dick Messner and Orchestra

KOIL KSO KWCR KYW WBAL
WCKY WENR WHAM WJR WJZ
WMAL WREN WYSR

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

E-6:30 p.m., C-5:30, M-4:30, P-3:30
C—Betty Barthell, Songs

CFRB CKLW KLRA KOMA WAAB
WABC WADC WBIG WBRC WCAO
WDBJ WDRG WDSU WFBM WFEA
WGST WHEC WHK WHP WJSV
WKWB WLWB WMBG WOKO WORC
WQAM WREC WSFA WSJS 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

B—Kathryn Newman, Soprano

KSO KWCR WBAL WCKY WENR
WHAM WJZ WREN WYSR

F—Dinner Hour, See Monday

E-6:45 p.m., C-5:45, M-4:45, P-3:45
R—Elizabeth Lennox, Contralto

KDYL KOA KPO KSD WCKY
WEAF WEEI WFBM WFLA WGY
WHO WIOD WIS WJAR WJAX

WJDX WMAQ WOC WOW WRVA
WSAI WSM 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 6:30 Monday

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

R—Billy Bachelor, See Monday

B—Radio in Education

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

E-7:30 p.m., C-6:30, M-5:30, P-4:30
R—Lum and Abner, See Monday

F—Maritime Presentations
Stations same as 6:30 Monday

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

R—Goldbergs, See Monday

B—Don Carney's Dog Chats

KDKA WBZ WBZA WCKY WGAR
WHAM WJR WJZ WMAL WMAQ
WSYR

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C—Elmer Everett Yess; Comedy

CKLW KFAB KFH KMBC KMOX
KOMA KSCJ KTRH K TSA WAAB
WABC WADC WBMM WBIG WBRC
WBT WCAH WCAO WCAU WCCO
WDAE WDBO WDDO WDRG WDSU
WEAN WFBL WFBM WGR WGST
WHAS WHEC WHK WBW WICC
WJAS WJSV WKBN WKRC WLAC
WMAS WMBG WMT WOKO WORC
WOVO WQAM WREC WWR WSFA
WSPD WTAR WWVA

R—Blackstone; Sanders-Crumit
WBNB WCAE WCHS WEAF WEEI
WFI WGY WJAR WRC WTAG
WTAM WWJ

B—Eno Crime Clues

KDKA KWK WBAL WBZ WBZA
WGAR WHAM WJR WJZ WLW
WMAL WMAQ WREN

F—Chas. Dornberger's Orchestra
Stations same as 6:30 Monday

E-8:15 p.m., C-7:15, M-6:15, P-5:15
C—Singin' Sam, Barbasol Man

CKLW KMBC KMOX WABC WADC
WCAO WCAU WCCO WDRG 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 WBMM
WBT WCAO WCAU WDRG WEAN
WGR WHAS WHK WJAS WJSV
WERC WNAC

R—Wayne King and Orchestra

KPRC KSD KSTP WBNB WCAE
WCHS WDAF WEAF WEEI WFAA
WFI WGY WHO WJAR WKBW
WKY WMAQ WMC WOAI WOC
WOW WRC WSAI WSB 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

WEDNESDAY—(Cont'd)

KOJN KOL KOMA KSL KTAT
KTRH K TSA KVI KWG WABC
WBRC WCAO WCAU WCCO WDOD
WDRG WDSU WEAN WFBL WFBM
WGN WGR WGST WHAS WHK
WJAS WJSV WKRC WLAC WMT
WNAO WOKO WORC WOW WREO
WRR

R — Abe Lyman; Frank Munn
WBEN WCGH WDAF WFAE WFBM
WGY WHO WJAR WLIT WMAQ
WOC WOW WRC WSAI WTAG
WTAM WWJ

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

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

CKLW KLRA KRLD KTRH K TSA
WABC WACO WADC WBIG WBRC
WBT WCAH WCAO WCAU WDAE
WDBJ WDBO WDOD WDRG WDSU
WEAN WFBL WFEA WGLC WGST
WHAS WHK WICC WJAS WJSV
WKBW WKRC WLAC WLBY WMAA
WMBG WNAO WOKO WORC WOWO
WQAM WREO WSFA WSPD WTAR
WTOC

R — Ipana Troubadours
KDYL KFI KGO KGW KHQ KOA
KOMO KPRC KSD KSTP KTBS
KTHS KVVO WAPI WBAP WBEN
WCAE WCGH WDAF WFAE WFAA
WFBM WGY WHO WIOD WIS
WJAR WJAX WKY WLIT WMAQ
WMC WOAI WOC WOW WRC
WJAS WSAI WSB WSM WSMB
WTAG WTAM WTMJ WWJ

B — Warden Lawes; Sing Sing Drama
KDKA KOIL KSO KWCR KWK
WBAL WBZ WBZA WCKY WGAR
WHAM WJR WJZ WLS WMAL
WREN WSYR

F — One Hour With You
Stations same as 9:00 Monday

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

E-9:30 p.m., C-8:30, M-7:30, P-6:30
C — Guy Lombardo—Burns and Allen

CKLW KDB KERN KFBK KPFP
KPRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRLD
KSL KTRH K TSA 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 WCGH
WDAF WFAE WFBM WGY WJAR
WLIT WMAQ WOW WRC WSAI
WTAG WTAM WTMJ WWJ

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

E-10:00 p.m., C-9:00, M-8:00, P-7:00
C — Old Gold—Fred Waring's Orchestra

CKLW KDB KERN KFBK KPFP
KFPY KPRC KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOH KOIN
KOL KOMA KRLD KSCJ KSL
KTRH K TSA KVI KVOR KWG
WABC WACO WADC WBIG WBRC
WBT WCAH WCAO WCAU WCCO
WDAE WDBJ WDBO WDOD WDRG

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

R — Corn Cob Pipe Club
KDYL KFI KFYR KGHG KGIR
KGO KGW KHQ KOA KOMO KSD
KSTP WBEN WCAE WCGH WDAF
WDAY WFAE WFCB WEEI WENR
WFBM WGY WHO WIBA WJAR
WLIT WLW WOC WOW WRC
WRVA WTAG WTAM WTIC WTMJ
WWJ

B — Pedro Via's Orchestra
CFCE CRCT KDKA KOIL KSO
KWCR KWK WBAL WBZ WBZA
WCKY WGAR WHAM WJZ WMAL
WREN WSYR

E-10:30 p.m., C-9:30, M-8:30, P-7:30
C — Alexander Woolcott; "Town Crier"

CFRB CKLW KLRA KLZ KMBC
KOMA KSL KTRH K TSA KVOR
WAAB WABC WACO WADC WBIG
WBRC WCAO WDBJ WDRG WDSU
WEAN WFBL WFEA WGR WGST
WHAS WHEC WHP WIBW WJAS
WJSV WLAC WLBY WMBD WMBG
WMT WOKO WORC WPG WQAM
WREO WSJS WTAR WTOC

R — National Radio Forum
KFYR KPRC KSD KSTP KTHS
KVVO WBEN WCAE WCGH WDAY
WFAE WEEI 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
WVNC

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

F — Joe DeCourcy's Orchestra
Stations same as 9:00 Monday

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

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C — Evan Evans, Baritone

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

B — Amos 'n' Andy, See Monday

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

R — Lum and Abner, See Monday
B — Poet Prince, Songs
KDYL KFI KFYR KGO KGW KHQ
KOA KOIL KOMO KSO KSTP KTBS
KTHS KWCR KWK WAPI WBAL
WCKY WDAY WFCB WFAA WIBA
WJDX WJR WJZ WKY WMAL
WMAQ WMC WREN WSB WSYR

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 WORC WQAM WREO
WSJS WTAR WTOC

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

THURSDAY

E — 6:00 p.m., C-5:00, M-4:00, P-3:00
C — Buck Rogers, See Monday

R — Roger Gerston and Orchestra
KDYL KFYR KOA KPO KPRC KSD
KSTP KTBS KTHS KVVO WAPI
WBEN WCAE WCGH WDAY WFAE
WFCB WFAA WGY WHO WIBA
WIOD WIS WJAR WJAX WJDX
WKY WMAQ WMC WOAI WOC
WOW WRC WRVA WSAI WSB WSMB
WTAG WTAM WWJ WVNC
B — Dick Messner, See Tuesday

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

E-6:30 p.m., C-5:30, M-4:30, P-3:30
C — Eddie Dooley's Football Dope

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

R — John B. Kennedy
KDYL KFYR KOA KPO KPRC KSD
KTBS KTHS KVVO WAPI WDAY
WFAE WFBM WFI WGY WHO WIBA
WIS WJAX WJDX WMAQ WMC
WOR WRC WSAI WSB WSMB WTAG
WWJ WVNC

B — Old Songs of the Church
KSO KWCR WBAL WCKY WENR
WHAM WJZ WREN WSYR
F — Dinner Hour, See Monday

E-6:45 p.m., C-5:45, M-4:45, P-3:45
R — Sizzlers Trio

KFYR KOA KPRC KSD KSTP
KTBS KVVO WAPI WBEN WCKY
WDAY WFAE WFCB WEEI WFAA
WFBM WFI WGY WHO WIBA WJAR
WJDX WKY WMC WOAI WOC WOW
WSAI WSB WSM WSMB WTAG
WWJ

B — Lowell Thomas, See Monday

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

B — A Mos 'n' Andy, See Monday
F — Rex Battle
Stations same as 6:30 Monday

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

R — Billy Bachelor, See Monday

E-7:30 p.m., C-6:30, M-5:30, P-4:30
C — Fray and Braggiotti—Piano Duo

KLRA WABC WBIG WBRC WDBJ
WDRG WDSU WEAN WFEA WGST
WLAC WLBY WMBG WNAO WORC
WQAM WREO WSFA WSJS WTAR
R — Lum and Abner, See Monday
F — Book Review—Prof. Macdonald
Stations same as 6:30 Monday

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

R — Goldbergs, See Monday
F — Old World Musicians
Stations same as 6:30 Monday

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C — Elmer E. Yess, See Tuesday

R — Rudy Vallee and Orchestra
CFCE CRCT KDYL KFI KFYR KGO
KGW KHQ KOA KOMO KPRC KSD
KSTP KTAR KTHS WAPI WBAP
WBEN WCAE WCGH WDAF WDAY

THURSDAY—(Continued)

WEAF WEBC WEEL WFBR WFI
WFLA WGY WHO WIOD WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOA! WOC WOW WPTF WRG
WRVA WSB WSM WSMB WTAG
WTAM WTMJ WWJ

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

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

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

CFRB CKLW KFH KLRA KLZ
KMBC KMOX KOMA KRLD KTRH
KTSa KVR WABC WACO WADC
WBIG WBRC WCAO WCCO
WDBJ WDRG WDSU WEAN WFBL
WFBM WFEA WGR WGST WHAS
WHEC WHK WHP WIBW WICC
WISN WJAS WJSV WLAC WLWB
WLBZ WMBG WMT WNAC WOKO
WORC WPG WQAM WREC WSBT
WSFA WSJS WTAQ WTAR WTOG

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

E-8:45 p. m., C-7:45, M-6:45, P-5:45
R — Thirteen Male Voices

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

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

KDYL KFI KFSD KGO KGW KHQ
KOA KOMO KPRC KSD KSTP KTR
KTBS WAPI WBAP WBEN WCAE
WCKY WCHS WDAF WEAF WEEL
WFBR WFI WFLA WGY WHO WIOD
WIS WJAR WJAX WJDX WKY
WMAQ WMC WOA! WOC WOW
WRC WRVA WSAI WSM WSMB
WTAG WTAM WTMJ WWJ WNNC

B — Death Valley Days—Drama

KDKA KOIL KSO KWCR KWK
WBAL WBZ WBA WGAR WHAM
WJR WJZ WLS WLW WMAL WREN
WSYR

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

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

CFRB CKLW KFH KLRA KLZ KMBC
KMOX KOMA KRLD KSL KTRH
KTSa KVR WABC WACO WADC
WBIG WBRC WCAO WCAU WCCO
WDBJ WDRG WDSU WEAN WFBL
WFBM WFEA WGST WHAS WHEC
WHK WHP WIBW WICC WJAS
WJSV WKBW WLAC WLWB WLBZ
WMBD WMBG WMT WNAC WOKO
WORC WQAM WREC WSBT WSJS
WTAR WTOG

B — Wayne King and Orchestra

KDKA KOIL KSO KWCR KWK
WBAL WBZ WBA WENR WGAR
WHAM WJR WJZ WREN

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

CFRB CKLW KLRA KLZ KMBC
KOMA KSL KTRH KTSa KVR
WAAB WABC WACO WADC WBIG
WBRC WCAO WCAU WCCO WDBJ
WDRG WDSU WEAN WFBL WFEA
WGST WHAS WHEC WHP WIBW
WICC WJAS WJSV WKBW WLAC
WLWB WLBZ WMBD WMT WOKO

WORC WPG WQAM WREC WSBT
WSJS WTAR WTOG

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 WBAE
WEEL 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 WNNC

C — Hands Across the Border

CFAC CFBO CFCE CFCH CFCN
CFCO CFYQ CFJC CFNB 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 CRCO CRCS
CRCT CRCV CFCE KDKA KOIL KSO
KWCR WBAL WBZ WBAZ WCKY
WGAR WHAM WJR WJZ WMAQ
WREN WSYR

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

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

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

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

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

CKLW KFH KLRA KLZ KMBC KSL
KTRH KTSa WAAB WABC WACO
WADC WBIG WBRC WCAO WCCO
WDBJ WDRG WDSU WEAN WFBL
WFBM WGN WGST WHAS WHEC
WHP WIBW WIP WISN WJAS WKBW
WLAC WLWB WLBZ WMBD WMBG
WMT WOKO WORC WPG WQAM
WREC WSBT WSJS WTAR WTOG

B — Amos 'n' Andy, See Monday

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

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

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

R — Jack Denny and Orchestra

KSD WBEN WCAE WCHS WDAF
WEAF WEEL WFBR WFI WGY WHO
WJAR WOC WOW WSAI WTAG
WTAM

FRIDAY

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

C — Jack Miller and Orchestra

CFRB CKLW KLRA WAAB WABC
WADC WBRC WCAO WDBJ WDRG
WDSU WFEA WGST WHEC WHK
WICC WJAS WJSV WLAC WLWB
WLBZ WMBG WOKO WORC WQAM
WREC WSFA WSJS WTAR WTOG

R — Walter Logan, See Monday

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

C — H-Bar-O Rangers, See Monday

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

C — Eddie Dooley, See Thursday

B — Three X Sisters

KDKA KOIL KWCR KWK WBAL
WBZ WBZA WCKY WENR WHAM

WJZ WMAL WREN WSYR

F — Dinner Hour, See Monday

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

C — H. V. Kaltenborn

CKLW KLRA KLZ KMBC KOMA
KRLD KSL KTRH KTSa KVR
WAAB WACO WADC WBRC WDBJ
WDSU WEAN WFBL WFBM WFEA
WGST WHEC WHP WICC WISN
WJSV WKBW WLAC WLWB WLBZ
WMBG WMT WOKO WQAM WREC
WSFA WSJS WTAQ WTAR WTOG
WWVA

R — Betty Bopp Frolics

KOA KPO KSD WBEN WCAE WCKY
WEAF WEEL 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 Bacheler, See Monday

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

C — Music in Air, See Monday

B — Scott's Emulsion Circus Days

KDKA KWK WBAL WBZ WBZA
WENR WGAR WHAM WJR WJZ
WLW WMAL WREN

F — Anlon Young, Baritone

Stations same as 6:30 Monday

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

C — Boake Carter, See Monday

R — Goldbergs, See Monday

B — Irene Rich, See Wednesday

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

C — Happy Bakers, See Monday

R — Cities Service Concert

CRCT KDYL KOA KPRC KSD KTBS
KTBS KYW WBEN WCAE WCHS
WDAF WEAF WEBC WEEL WFAA
WFBW WGY WHO WJAR WKY WLIT
WOAI WOC WOW WRC WRVA WSAI
WTAG WTAM WTMJ WTMJ WWJ
B — Nestle's with Ethel Shutta
KDKA KWK WBAL WBZ WBZA
WCKY WGAR WJR WJZ WLS WMAL
WSYR

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

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

C — Edwin C. Hill, See Monday

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

C — March of Time

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

F — Jim my Johnson, Xylophonist

Stations same as 6:30 Monday

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

B — Red Davis, See Monday

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

C — Irvin S. Cobb, See Wednesday

R — Fred Allen's Revue

KSD WBEN WCHS WHEC WEEL
WFBR WGY WJAR WLIT WLW

FRIDAY—(Continued)

WMAQ WRC WTAG WTAM WTIC
WVJ

B — Phil Harris and Orchestra
CFCH FKDA KDYL KFI KGHK
KGR KGO KGW KHQ KOA KOIL
KOMO KSO KWCR KWK WAPI
WBAL WBZ WBZA WCKY WFAA
WGAR WJZ WKY WLS WMAL
WQAI WREN WSB WSM WSMB
WSYR

F — Jack Dale, Tenor
Stations same as 9:00 Monday

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

C — Threads of Happiness
CKLW KDB KERN KFBK KFH
KFPY KFRK KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOL
KOMA KSL KTRH KTAR KTSA KVI
KWG WABC WADC WBZ WBT
WCAO WCAU WCCO WDC WDR
WDSU WEAN WFBL WFBM WGN
WGST WHAS WHK WJAS WJVS
WKBW WKRC WLAC WNAC WOKO
WOWO WREC WRR WSPD WTAR
WTOC

F — Gentleman Jim, Comedian
Stations same as 9:00 Monday

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

C — All America Football Show
CKLW KDB KERN KFBK KFH
KFPY KFRK KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KOMA
KRLD KSL KTRH KTSA KVI KWG
WABC WACO WADC WBBM WBT
WCAH WCAO WCAU WCCO WDR
WEAN WFBL WFBM WGR WGST
WHAS WHEC WHK WHP WIBW
WJAS WJVS WKRC WLAC WMBG
WMT WNAC WOKO WORC WOWO
WREC WSPD WTAR

R — Pond's Program; Lee Wiley
KSD WBN WCAE WCHS WDAF
WEAF WFBZ WGY WHO WJAR
WLIT WMAQ WOC WOV WRC WSAI
WTAG WTAM WTIC WVJ

B — Armour Program; Phil Baker
KDKA KDYL KFI KGO KGW KHQ
KOA KOMO KPRC KSO KSTP
KTAR KWK WAPI WBAL WBZ
WBZA WBC WENR WFAA WGAR
WHEM WIOD WJAZ WJR WJZ
WKY WMC WQAI WREN WRVA
WSB WSM WSMB WTMJ WNNC

F — Gems from Lyric Stage
Stations same as 9:00 Monday

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

C — Swift Revue — Olsen and Johnson
CKLW KDB KERN KFBK KFPY
KFRK KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRLD
KSCJ KSL KTRH KVI KWG WABC
WADC WBBM WBRZ WBT WCAO
WCAU WCCO WDR WEA WFBL
WGST WHAS WHK WJAS WJVS
WKBW WKRC WNAC WOKO WOWO
WREC

R — First Nighter — Drama
CRCT KDYL KFI KGO KGW KHQ
KOA KOMO KPRC KSD KSTP
WAPI WBN WCAE WCHS WDAF
WEAF WBC WEEI WFBZ WGY
WHO WJAR WKY WLIT WMAQ
WQAI WOC WOV WRC WSAI WSB
WSM WSMB WTAG WTAM WTIC
WTMJ WVJ

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

C — Alexander Woolcott, See Wednesday

R — Lum and Abner's Sociable

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

B — Mario Cozzi, Baritone
KDKA KFYR KOIL KSO WAPI
WBAL WBZ WBZA WCKY WDAY
WBC WFLA WHAM WIBA WIOD
WIS WJAZ WJR WJZ WREN WSB
WSM WSYR WNNC

F — Billy Bissett's Orchestra
Stations same as 9:00 Monday

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

C — Myrt and Marge, See Monday
B — Headline Hunter; Floyd Gibbons
KDKA KFYR KSO WAPI WBAL
WBZ WBZA WCKY WDAY WBC
WFLA WHAM WIBA WIOD WIS
WJAZ WJR WJZ WREN WSB WSM
WSYR WNNC

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

C — Howard Barlow, See Monday
B — Amos 'n' Andy, See Monday
F — Souvenirs — Robert Forest
Stations same as 9:00 Monday

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

C — Columbia News Service, See Monday

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

C — Isha M Jones, See Tuesday

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

R — Fred Allen's Revue
KDYL KFI KFSD 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 KTSA KFOR
WAAB WABC WACO WADC WBBM
WBG WBRZ WCAO WCCO WDBJ
WDSU WFBL WFEA WGR WGST
WHAS WHEC WHK WHP WIBW
WICW WIP WISN WJAS WJVS WLAC
WLBW WLBZ WMBZ WMT WOKO
WQAM WREC WSBT WSFA WSJS
WTAQ WTAR WTOC WVVA

B — Richard Himber, See Monday

E-8:15 p. m., C-5:15, M-4:15, P-3:15

C — George Hall and Orchestra
CFRI CKLW KFH KLRA KMBC
KMOX KOMA KSL KTRH KTSA
KFOR WAAB WACO WADC WBSU
WBRZ WCAO WCCO WDBJ WDSU
WFEA WGR WGST WHAS WHP
WIBW WITC WIP WISN WJAS
WJVS WLAC WLBW WLBZ WMBG
WOKO WQAM WREC WSBT WSFA
WSJS WTAQ WTAR WTOC WVVA

E-8:30 p. m., C-5:30, M-4:30, P-3:30

C — Eddie Dooley, See Thursday
B — O'Leary's Irish Minstrels
KOIL KSO KWCR WBAL WBZ
WCKY WENR WHAM WJZ WMAL
WREN WSYR

F — Dinner Hour, See Monday

E-8:45 p. m., C-5:45, M-4:45, P-3:45

C — Tito Guizar, Tenor
CKLW KLRA KLZ KMBC KMOX
KRLD KSL KTRH KTSA KFOR
WAAB WABC WACO WADC WBG
WBRZ WCAO WCAU WCCO WDBJ

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

R — Twenty Fingers of Harmony
CRCT KDYL KOA KSD WBN
WCAE WCHS WEAF WFBZ WFI
WGY WHO WIS WJAZ WJX WJDX
WMAQ WMC WOC WOV WRC
WRVA WSAI WSB WSM WSMB
WTAG WVJ WNNC

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

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

C — Frederic William Wite
CKLW KFH KLRA KLZ KMBC
KRLD KSL KTRH KTSA KFOR
WABC WACO WADC WBBM WBG
WBRZ WCAO WCAU WDBJ WDSU
WEAN WFBL WFEA WGR WGST
WHEC WHK WIBW WICC WISN
WJAS WJVS WLAC WLBW WLBZ
WMBG WMT WOKO WQAM WREC
WSBT WSFA WSJS WTAQ WTAR
WTOC WVVA

F — Rex Battle
Stations same as 6:30 Monday

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

C — Mildred Bailey
CFRB CKLW KFH KLRA KMBC
KMOX KOMA KTRH KTSA KFOR
WABC WACO WADC WBBM WBG
WBRZ WCAO WCAU WDBJ WDSU
WEAN WFBL WFBM WFEA WGR
WGST WHEC WHK WHP WIBW
WICC WISN WJAS WJVS WLAC
WLBW WLBZ WMBG WNAC WOKO
WQAM WREC WSBT WSFA WSJS
WTAQ WTAR WVVA

R — Meyer Davis and Orchestra
CRCT KSD WCAE WEAF WFI WHO
WJAR WOC WRC WTAG

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

C — Jane Froman; Charles Carlile
WABC WDRZ WEAN WFBL WFEA
WGR WJVS WLBZ WNAC WOKO

R — Optimistic Mrs. Jones
KFI KGO KGW KHQ KOA KOMO
KSD WBN WCAE WDAF WEAF
WEEI WFBZ WFI WGY WHO WJAR
WOC WRC WTAG WTAM WVJ

B — Circus Days, See Friday

F — Sous les Ponts de Paris
CFBC CFCH CFCC CFYQ CFNB
CFPL CHGS CHLP CHNS CHRC
CJCB CKAC CKCH CKNC CKOC
CKPC CKPR CRCA CRCC CRCS
CRCT

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

R — Jack and Loretta Clements
KDYL KFI KGO KGW KHQ KOA
KOMO KSD WBN WCHS WDAF
WEAF WEEI WFBZ WGY WJAR
WOW WRC WSAI WTAG WTAM
WVJ

B — Annie, Judy and Zeke-Hillbilly
CFCF KFYR KOIL KPRC KSO
KSTP KTSB KTHS KWCR WBAL
WBAP WCKY WENR WHAM WIBA
WIOD WIS WJR WJZ WKY WMAL
WMC WQAI WREN WRVA WSB
WSM WSMB WSYR WNNC

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

C — Elmer E. Yess, See Tuesday
R — K-7 — Drama
KSD KYW WBN WCHS WDAF

SATURDAY—(Continued)

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

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

E-8:30 p. m., C-7:30, M-6:30, P-5:30
C — Phil Spitalny's Orchestra
CFRB CKLW KFH KLRA KLZ
KMBC KMOX KOMA KSL KTRH
K TSA KVOR WABC WADC WBIG
WBRC WCAO WCCO WDBJ WDSU
WEAN WFBL WFBM WFEA WGR
WGST WHEC WHK WHP WIBW
WICC WISN WJAS WJWS WLAC
WLWB WLWZ WMBG WMT WNAC
WOKO WPG WQAM WREC WSBT
WSJS WTAQ WTAR WTOC WWVA
R — Antoba's Cubans
KDYL KFI KGO KGW KHQ KOA
KOMO KPRC KSD KTBS KTHS
KVOO WCHS WDAF WDAY WFAF
WIBC WFAA WFBR WFLA WGY
WHO WIBA WIS WJAR WJAX
WJDX WKY WMAQ WMC WOAI
WOC WRC WRVA WSAI WSB WSM
WSMB WTAG WTAM WJW WWNC
B — Sous Les Ponts de Paris
KDKA KOIL KSO KWCR KYW
WBAL WBZ WBZA WCKY WGAR
WHAM WJR WJZ WMAL WREN
WSYR
F — Harmonica Band; Round-Up
Rangers
Stations same as 9:00 Monday

E-9:00 p. m., C-8:00, M-7:00, P-6:00
C — Elder Michaux and Congregation
CFRB CKLW KFH KLRA KLZ
KMBC KMOX KOMA KSL KTRH
K TSA KVOR WABC WADC WBIG
WBRC WCAO WCCO WDBJ WDSU
WEAN WFBL WFBM WFEA WGR
WGST WHEC WHP WIBW WICC
WIP WISN WJAS WJWS WKBW
WLAC WLWB WLWZ WMBD WMBG
WMT WNAC WOKO WQAM WREC
WSBT WSJS WTAR WTOC WWVA
R — Lucky Strike — Jack Pearl
KDYL KFSD KFYR KGO KGU KGW
KHQ KOA KOMO KPRC KSD KSTP
KTAR KTBS KTHS WAPI WBAP
WBEN WCAE WCHS WDAF WDAY
WFAF WIBC WEEL WFBR WFI
WFLA WGY WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI WOW WRC WRVA WSB
WSMB WTAG WTAM WTMJ WWJ
WNWC
B — Jamboree — Variety Show
KDKA KOIL KSO KWCR KWK KYW
WBAL WCKY WGAR WHAM WJR
WJZ WMAL WREN WSYR
F — Concert Program
Stations same as 9:00 Monday

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

E-9:30 p. m., C-8:30, M-7:30, P-6:30
C — Symphonic Strings
CFAC CFBO CFCF CFCB CFON
CFCO CFCY CFCJ CFCN CFPL CFCQ
CHAB CHCS CHNS CHRC CHWC
CHWK CJCA CJCB CJCJ CJGX
CJOE CJRM CJRW CKCH CKCK
CKNC CKOC CKOV CKPC CKPR
CKUA CKX CKYX CRCA CRCO
CRCS CRCT CRCV CKLW KFH
KLRA KLZ KMBC KMOX KOMA
KRLD KSL KTRH K TSA KVOR
WABC WADC WBIG WBRW WCAU
WCCO WDBJ WDSU WEAN WFBL
WFBM WFEA WGST WHAS WHEC
WHK WHP WIBW WICC WJAS WJWS
WKBW WLAC WLWB WLWZ WMBG
WMT WNAC WOKO WQAM WREC
WSBT WSJS WTAR WTOC WWVA
R — Leo Reisman; Yacht Club Boys
WBEN WCAE WCHS WDAF WFAF
WEEL WFBR 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
C — Columbia Public Affairs Institute
CFRB CKLW KLRA KLZ KMBC
KMOX KOMA KSL KTRH K TSA
KVOR WAAB WABC WADC WBIG
WBRC WCAO WCCO WDBJ WDSU
WEAN WFBL WFBM WFEA WGST
WHAS WHEC WHP WIBW WICC
WJAS WJWS WKBW WLAC WLWB
WLWZ WMBD WMBG WMT WOKO
WPG WQAM WREC WSJS WTAR
WTOC WWVA

R — B. A. Rolfe and Orchestra
CRCT KDYL KFI KGO KGW KOA
KOMO KSD KSTP WBAP WBEN
WCAE WCHS WDAF WFAF WEEL
WFBR WFI WGY WHO WJAR WJAX
WLW WMAQ WOAI WOC WOW
WRC WRVA WSB WSMB WTAG
WTAM WTMJ WWJ
B — Tales of the Titans — Drama
KDKA KOIL KWCR KWK KYW
WBAL WBZ WBZA WCKY WGAR
WHAM WJR WJZ WMAL WREN
WSYR
F — Earle Hill's Orchestra
Stations same as 9:00 Monday

E-10:15 p. m., C-9:15, M-8:15, P-7:15
C — Ann Leaf at Organ
CFRB CKLW KFH KLRA KLZ
KMBC KOMA KRLD KSL KTRH
K TSA KVOR WAAB WABC WADC
WBIG WBRW WCAO WCCO WDBJ
WDSU WEAN WFBL WFEA WGR
WGST WHEC WHP WIBW WICC
WJAS WJWS WKBW WLAC WLWB
WLWZ WMBD WMBG WOKO WPG
WQAM WREC WSJS WTAR WTOC
WWVA

E-10:30 p. m., C-9:30, M-8:30, P-7:30
C — George Jessel
CFRB CKLW KFH KLRA KLZ
KMBC KMOX KOMA KRLD KTRH
K TSA KVOR WAAB WABC WADC
WBIG WBRW WCAO WCCO WDBJ
WDSU WEAN WFBL WFEA WGR
WGST WHAS WHEC WHK WHP
WIBW WICC WISN WJAS WJWS
WKBW WLAC WLWB WLWZ WMBD
WMBG WOKO WPG WQAM WREC
WSBT WSJS WTAR WTOC WWVA
B — Cuckoo — Ray Knight
KOIL KSO KWCR KYW WBAL WBZ
WBZA WCKY WGAR WJZ WMAL
WREN WSYR

E-11:00 p. m., C-10:00, M-9:00, P-8:00
C — Isham Jones and Orchestra
CFRB CKLW KLRA KLZ KMBC
KMOX KOMA KTRH K TSA KVOR
WAAB WABC WADC WBIG WBRW
WCAO WCCO WDBJ WDSU
WEAN WFBL WBRM WGST WHAS
WHP WIBW WICC WISN WJAS
WJWS WKBW WLAC WLWB WLWZ
WMBD WMBG WMT WOKO WPG
WQAM WREC WSBT WSJS WTAR
WTOC

R — One Man's Family — Sketch
CFCF KDYL KFI KFYR KGO KGW
KHQ KOA KOMO KPO KPRC KSD
KSTP KTBS KTHS KVOO WBEN
WCAE WDAF WDAY WFAF WFBR
WFI WFLA WGY WHO WIBA WIOD
WIS WJAR WJAX WJDX WKY
WMAQ WMC WOAI WOC WOW
WRC WRVA WSAI WSB WSMB
WTAG WTAM WWJ WWNC
B — WLS Barn Dance
KDKA KOIL KSO KWCR KWK WBZ
WBZA WGAR WHAM WJR WJZ
WLW WLWZ WMAL WREN WSYR
F — Saturday Night Frolic
Stations same as 9:00 Monday

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

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

SUNDAY

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

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 K TSA KVOR WABC
WACO WADC WBIG WBRW WCAO
WCCO WDBJ WDRW WDSU WEAN
WFBL WFEA WGN WGR WGST
WHAS WHEC WHP WIBW WICC
WISN WJAS WJWS WLAC WLWB
WMBD WMT WNAC WOKO WRC
WPG WQAM WSBT WSFA WSJS
WTAQ WTAR WWVA

E-12:15 p. m., C-11:15, M-10:15, P-9:15
R — Seeing the Other Americas
KDYL KFSD KFYR KGO KHQ KOA
KOMO KPRC KSTP KVOO WAPI
WBAP WBEN WCHS WDAY WFAF
WIBC WFI WFLA WGY WHO WIBA
WIOD WIS WJAR WJAX WJDX
WMC WOAI WOC WRC WSAI WSB
WSMB WTAG WTAM

E-12:30 p. m., C-11:30, M-10:30, P-9:30
C — Tito Guizar's Serenade
WABC WCAO WDRW WEAN WFEA
WLWB WNAC WORC

SUNDAY—(Continued)

E-5:30 p. m., C-4:30, M-3:30, P-2:30
C — Frank Cronin; Julia Sanderson
CKLW KFAB KFH KMBC KMOX
KOMA WAAB WABC WADC WCAH
WCAO WCAU WDRC WDSU WBAN
WFBL WFBN WGR WHEC WHK
WICC WJSV WMA5 WOKO WORC
WSPD WTAR WWSA
R — Talkie Picture Time—Sketch
WCAE WCSH WDAF WFAF WMAQ
WFBF WFI WGY WJAR WJAX
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 WBCA WCKY
WEEC WENR WGAR 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 WJAS WJSV WKRC
R — Catholic Hour
KDYL KECA KFYZ KGHF KGIR
KGW KOA KOMO KPO KPRC
KSTP KTAR KTBS KVOO WAFI
WBAP WBNB WCAE WCSH WDAF
WDAY WFAF WFCB WEEI WENR
WFBF WFLA WGY WHO WIBA
WIOD WIS WJAR WJAX WJDX
WKY WLIT WMC WOAI WOC WOV
WRC WRVA WSAI WSB WSM
WSMB WTAG WTAM WWJ WWNC
B — Richard Himber and Orchestra
CFCF CRCT KDKA KOIL KSO
KWCR KWK WBZ WCKY WGAR
WHAM WJR WJZ WMAL WMAQ
WREN

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

E-6:45 p. m., C-5:45, M-4:45, P-3:45
C — Willard Robison, Syncopated
Sermons
CKLW KFH KLRA KLZ KMBC
KMOX KOMA KRLL KSL KTRH
KTSB KVOB WAAB WACO WADC
WBGW WBRC WCAO WCCO WDBJ
WDRC WDSU WEAN WFBL WFEA
WGR WGST WHAS WHEC WHP
WIBW WICC WIP WJAS WJSV
WLAC WLWB WOKO WORC WMAQ

WREC WSBT WSPA WSJS WTAQ
WTAR WTOG WWSA
B — Trio Romantic
KDKA KOIL KSO KWCR KWK
WCKY WENR WGAR WHAM WJR
WJZ WLW WMAL WREN WSYR

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

E-7:15 p. m., C-6:15, M-5:15, P-4:15
C — The Gauchos; Tito Guizar
CKLW KFH KLRA KLZ KMBC
KMOX KOMA KSL KTRH KTSB
KVOB WABC WACO WADC WBIG
WBRC WCAO WCAU WCCO WDBJ
WDRC WDSU WEAN WFBL WFBM
WFEA WGR WGST WHAS WHEC
WHP WIBW WICC WISN WJAS
WJSV WLAC WLWB WMT WNAC
WOKO WORC WPG WQAM WREC
WSBT WSPA WSJS WTAQ WTAR
WTOC WWSA

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

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

E-8:00 p. m., C-7:00, M-6:00, P-5:00
C — Freddie Rich; Mildred Bailey
CKLW KLRA KLZ KMBC KMOX
KOMA KSL KTRH KTSB KVOB
WAAB WABC WACO WADC WBRC
WCAO WCAU WCCO WDBJ WDRC
WDSU WFBM WFEA WGR WGST
WHAS WHEC WHK WHP WIBW
WISN WJAS WJSV WLAC WLWB
WMT WOKO WORC WQAM WREC
WSPA WSJS WTAR WTOG WWSA
R — Chase and Sanborn Hour
CFCF CRCT KDYL KFI KFYZ KGO
KGW KHQ KOA KOMO KPRC KSD
KSTP KTAR KTBS KVOO WBNB
WCAE WCSH WDAF WDAY WFAF
WFCB WFAA WFBF WFLA WGY
WHO WIOD WIS WJAR WJAX
WJDX WKY WLIT WLW WMAQ
WMC WOAI WOC WOW WPTF WRC
WRVA WSB WSM WSMB WTAG
WTAM WTIC WTMJ WWJ WWNC
B — Light Opera Nights
KDKA KOIL KSO KWCR KWK
WBAL WBZ WBSZ WCKY WGAR

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

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

E-9:30 p. m., C-8:30, M-7:30, P-6:30
R — Album of Familiar Music
CFCF CRCT KDYL KFI KGO KGW
KHQ KOA KOMO KPRC KSD KSTP
WAFI WBNB WCAE WCKY WCSH
WDAF WFAF WEEI WFAA WFBF
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 WBSZ WENR WGAR
WHAM WJR WJZ WLW WMAL
WREN WSYR

E-9:45 p. m., C-8:45, M-7:45, P-6:45
B — Novelists Quartet
KDKA KOIL KSO KWCR KWK KYW
WBAL WBZ WBSZ 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 KFYZ KGHF
KGIR KGO KGW KHQ KOA KOMO
KPRC KSTP KTAR KTBS WAFI
WBAP WBNB WCAE WCSH WDAF
WDAY WFAF WFCB WEEI WFBF
WFI WFLA WGY WIBA WIOD WIS
WJAR WJDX WKY WMAQ WMC
WOAI WOW WRC WRVA WSB WSM
WSMB WTAG WTAM WTIC WTMJ
WWJ WWNC
B — Green Brothers Novelty Orch.
CFCF KDKA KOIL KSO KWCR
WBAL WENR WGAR WHAM WJZ
WMAL WREN

F — Chateau Laurier Musicale
Stations same as 9:00 Monday

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

SUNDAY—(Continued)

WDAY WEAF WEBC WEEI WFAA
WFBR WFI WGY WHO WIBA WJAR
WKY WMAQ WMC WOAI WOC
WOW WRC WSAI WSB WSMB
WTAG WTAM WVIC WTMJ WWJ
B—Phil Ducey, Baritone
KDKA KOIL KSO KWCR KWK
WBAL WBZ WBZA WCKY WGAR
WJR WJZ WLW WREN

E-10:45 p. m., C-9:45, M-8:45, P-7:45
B—Mountain Music
CFCF KDKA KOIL KSO KWCR
WBAL WENR WGAR WHAM WIOD
WIS WJAX WJZ WMAL WREN
WRVA WWNC

E-11:00 p. m., C-10:00, M-9:00, P-8:00
C—Vincent Lopez and Orchestra
CFRB CKLW KFH KLRA KLZ

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

R—Sunday at Seth Parker's
CRCT KDYL KFSD KFYE KGHL
KGIR KGO KGW KHQ KOA KOMO
KPRC KSD KSTP KTAI KTBS KYW
WAPI WBEF WCAE WCHS 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 WSMB
WTAG WTAM WTMJ WWJ WWNC

F—Fireside Hour
Stations same as 9:00 Monday

E-11:15 p. m., C-10:15, M-9:15, P-8:15
B—Roxanne Wallace, Contralto
KDKA KOIL KSO KWCR KWK
WBAL WBZ WBZA WCKY WGAR
WJR WJZ WLW WREN

E-11:30 p. m., C-10:30, M-9:30, P-8:30
C—Joe Haynes and Orchestra
CFRB CKLW KFH KLRA KLZ
KOMAS KSL KTRH K TSA WABC
WADC WBRG 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
B—Dick Messner and Orchestra
KDKA KOIL KSO KWCR KWK
WBAL WBZ WBZA WCKY WGAR
WJR WJZ WLW WREN

PROGRAM GOSSIP

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

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

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

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

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

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

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

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

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

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

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

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

Olive Kline . . . The original LaPalina soprano over Columbia. Kate Smith has her place today.

CLASSIFIED INDEX TO CHAIN PROGRAMS

Time in Eastern Standard

CONCERTS

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

DANCE BANDS

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

DIALOG

Fred Allen, 9:00 p. m. and 12:15 a. m., Friday, R
 Amos 'n' Andy, 7:00 and 11: p. m., daily, ex. Sat. and Sun., B
 Phil Baker, 9:30 p. m., Friday, B
 Jack Benny, 10:00 p. m., Sunday, R
 Burns and Allen, 9:30 p. m., Wednesday, C
 Cuckoo Program, 10:30 p. m., Saturday, B
 Andrew Kelly, 6:45 p. m., Sunday, R
 Bert Lahr, 8:00 p. m., Wednesday, R
 Lum and Abner, 7:30 and 11:15 p. m., Mon., Tues., Wed. and Thurs.; 10:30 p. m., Fri., R
 Lulu McConnell, 9:30 p. m., Monday, C
 Moran and Mack, 10:00 p. m., Wednesday, C
 Walter O'Keefe, 8:00 p. m., Friday, B
 Olsen and Johnson, 10:00 p. m., Friday, C
 One Man's Family, 11:00 p. m., Saturday, R
 Optimistic Mrs. Jones, 7:30 p. m., Saturday, R
 Jack Pearl, 9:00 p. m., Saturday, R
 Joe Penner, 7:30 p. m., Sunday, B
 Potash and Perlmutter, 8:30 p. m., Mon., Wed. and Fri., B
 Talkie Picture Time, 5:30 p. m., Sunday, R
 Elmer Everett Yess, 8:00 and 11:15 p. m., Tues., Thurs. and Sat., C

DRAMA

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

PIANO AND ORGAN

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

POPULAR PROGRAMS

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

RELIGIOUS

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

SINGERS

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

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

TALKS

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

KEY TO SYMBOLS

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

Second Column Symbols

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

Fourth Column Symbols

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

As Shown in the Index by Frequencies and Dial Numbers

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

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

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540 kilocycles 555.2 meters

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

550 kilocycles 545.1 meters

KFDY	ae	500	1 (1)	Brookings, S. D.	C-12:30-2:00
XKFUO	ae	500	2 (1)	St. Louis, Mo.	C
XKFYR	ah	1000	1N (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
XKSD	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.
XWKRC	ak	1000	C	Cincinnati, Ohio.	E-7:00-1:00

560 kilocycles 535.4 meters

KFDM	ak	500	(1)	Beaumont, Texas.	C-7:00-10:00
KGIZ	ak	500	D	Springfield, Mo.	C-7:00-7:00
XKLZ	ak	1000	C	Denver, Colo.	M-6:45-11:30
XKTAB	ak	1000	.....	San Francisco, Calif.	P-7:00-1:00
WFI	ae	500	1R	Philadelphia, Pa.	E-6:45-9:00; 9:45-11:00; 1:00-2:00; 3:00-4:30; 6:00-7:00
XWIND	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; 7:00-1:00
WNOX	ak	1000	C (2)	Knoxville, Tenn.	C
XWQAM	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

KGKO	ak	250	(.5)	Wichita Falls, Texas.	C-7:00-10:00
XKMTR	ak	500	.....	Hollywood, Calif.	P-6:00-12:15
XKVI	ak	500	.....	Tacoma, Wash.	P-6:00-mid.
WKBN	ae	500	1C	Youngstown, Ohio.	E-7:30-9:00; 11:00-7:00
XWMAA	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; 7:00-11:30
XWSYR	ak	250	B	Syracuse, N. Y.	E-7:30-1:00
XWWNC	ae	1000	N	Asheville, N. C.	E-8:00-1:00

580 kilocycles 516.9 meters

CHMA	ak	250	S	Edmonton, Alta.	
CKCL	aj	100	M	Toronto, Ont.	E-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-8:10-10:30
XKMJ	ak	500	CT	Fresno, Calif.	P-7:00-mid.
XKSAC	ak	500	2 (1)	Manhattan, Kans.	C-8:00-9:00; 10:00-10:30; 12:30-1:30; 4:30-5:30
XWDBO	ae	250	CW	Orlando, Fla.	E-7:00-mid.
XWIBW	ae	1000	C2	Topeka, Kans.	C-6:00-mid.
XWOBU	ak	250	(.5)	Charleston, W. Va.	E-8:00-mid.
WTAG	ae	250	R (.5)	Worcester, Mass.	E-8:00-mid.
XKEPN	ak	75000	585	Piedras Negras, Coah.	C-6:00-8:00; 11:00-1:00; 7:00-11:00

590 kilocycles 508.2 meters

CMW	ae	1400	.....	Havana, Cuba.	E
XKHQ	ak	1000	N (2.5)	Spokane, Wash.	P-7:00-1:00
XWEEI	ak	1000	R	Boston, Mass.	E
WKZO	ae	1000	DK	Kalamazoo, Mich.	E-7:00-7:00
XWOW	ae	1000	R	Omaha, Neb.	C-7:00-1:30; 2:00-3:30; 4:00-11:30

600 kilocycles 499.7 meters

CFCF	ae	500	F	Montreal, Que.	E-7:30-mid.
KFQD	ck	250	.....	Anchorage, Alaska.	L-6:00-mid.
XKFSO	ah	1000	N	San Diego, Calif.	P-7:30-mid.
XWCAC	ae	250	2	Storrs, Conn.	E-12:30-1:00; 7:00-8:00
WCAO	ae	250	C	Baltimore, Md.	E-7:00-mid.
WICC	ae	250	2 CH (.5)	Bridgeport, Conn.	E-7:45-1:00
XWMT	af	500	C	Waterloo, Iowa.	C-6:00-mid.
XWREC	ak	500	C (1)	Memphis, Tenn.	C-6:30-mid.

610 kilocycles 491.5 meters

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KCYS.
710
DIAL

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

620 kilocycles 483.6 meters

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

630 kilocycles 475.9 meters

CFCY	ae	500	FVE	Charlottetown, P. E. I.	A—12:00-1:30; 6:00-11:30
CJGX	ck	500	F	Yorkton, Sask.	C—8:30-9:15; 10:30-11:45; 12:40-1:15; 7:00-9:00
CMQ	z	500	2	Havana, Cuba	E
✕KFRU	ak	500	1	Columbia, Mo.	C—6:00-9:00; 4:00-sunset; 7:00-8:30
✕KGFJ	z	200	D	Pierre, S. D.	C—9:30-sunset
✕WGBF	ae	500	1	Evansville, Ind.	C
✕WML	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

CHRC	ak	100	FZ645	Quebec, Que.	E—9:00-12:30
KCCR	ak	100	M645	Kitchener, Ont.	E—10:00-1:30; 4:00-11:00
KFI	ak	50000	IN	Los Angeles, Calif.	P—6:30-mid.
✕WAIU	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

✕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

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

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

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

690 kilocycles 434.5 meters

CFAC	ak	500	1	Calgary, Alta.	M
✕CFRB	ak	10000	C	Toronto, Ont.	E—8:00-mid.
CJCF	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

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

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

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

720 kilocycles 416.4 meters

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

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

740 kilocycles 405.2 meters

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

750 kilocycles 399.8 meters

X KGU	aj	2500	N	Honolulu, T. H.	L—6:30-10:30
X WJR	ak	10000	B	Detroit, Mich.	E—7:00-1:00
X EAN	ae	5000	.....	Juarez, Chih.	M
X EFD	ak	5000	757	Tijuana, B. C.	P—7:00-mid.

760 kilocycles 394.5 meters

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

770 kilocycles 389.4 meters

X KFAB	ae	5000	CSy	Lincoln, Neb.	C—5:00-6:45; 9:00-mid.
X WBEM	ae	25000	CSy	Chicago, Ill.	C

780 kilocycles 384.4 meters

CHWK	ak	100	F	Chilliwack, B. C.	P—9:00-10:00; 12:00-1:00; 5:30-8:30
CJCS	ae	500	(1) P	Sudbury, Ont.	E—8:00-mid.
CKPR	ak	100	FE	Fort William, Ont.	E—10:00-2:00; 5:00-11:00
CMBS	ag	200	1 (.15)	Havana, Cuba.	E—10:00-noon; 7:00-11:00
CMCQ	z	1000	1	Havana, Cuba.	E
KELW	ae	500	2	Burbank, Calif.	P—10:00-1:00; 5:00-8:00; 4:00-6:00
X 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
X WMC	ak	500	N (1)	Memphis, Tenn.	C—7:00-mid.
X WTAR	ae	500	C	Norfolk, Va.	E—7:00-mid.
X EP	z	1000	.....	Mexico City, D. F.	C
X EYZ	z	10000	.....	Mexico City, D. F.	C

790 kilocycles 379.5 meters

X CMJK	ak	500	.....	Camaguey, Cuba.	E—11:30-12:30; 5:00-11:00
X KGO	ak	7500	N	San Francisco, Calif.	P—7:00-mid.
X 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
X WBAP	ak	50000	Na	Fort Worth, Texas.	C—6:30-7:00; 8:30-10:30; 12:30-3:00; 5:30-6:30; 10:00-mid.
X WFAA	ak	50000	Na	Dallas, Texas	C—7:00-8:30; 10:30-12:30; 3:00-5:30; 6:30-7:00
X FC	z	350	805	Aguascalientes, Ags.	

810 kilocycles 370.2 meters

VOAS	ak	100	.....	St. John's, Nfld.	L—11:00-12:30; 4:00-5:30
X WCCO	ae	50000	C	Minneapolis, Minn.	C—7:00-mid.
WN YC	ak	500	N	New York, N. Y.	E—10:00-7:30

820 kilocycles 365.6 meters

CMGC	z	30	Matanzas, Cuba.	E
X 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
X KOA	ak	12500	N	Denver, Colo.	M—7:00-mid.
TIEA	z	7.5	833	San Jose, C. R.	L
WEEU	ak	1000	D	Reading, Pa.	E—8:00-6:15
WHDH	ae	1000	DnA	Boston, Mass.	E—7:00-sunset in Denver
X WRUF	ae	5000	Dn	Gainesville, Fla.	E—8:00-6:45
XETW	dk	500	.....	Mexico City, D. F.	C—Noon-11:00

840 kilocycles 356.9 meters

X JCOC	ak	100	F	Lethbridge, Alta.	M—7:30-8:00
X CMC	ae	500	.....	Havana, Cuba.	E—10:30-11:30; 6:45-11:00
XFX	ak	500	.....	Mexico City, D. F.	C—7:00-noon; 4:30-10:30

850 kilocycles 352.7 meters

KIEV	ak	100	D	Glendale, Calif.	P—6:00-sunset
X KWKH	ae	10000	I	Shreveport, La.	C
X 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
X WABC	ae	50000	C	New York, N. Y.	E—7:30-2:00 (WBOQ)
X 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

X WENR	ak	50000	Na	Chicago, Ill.	C
X WLS	ae	50000	Na	Chicago, Ill.	C—5:30-9:15; 10:45-2:30; 6:00-7:30
XEAD	z	250	875	Mexico City, D. F.	C

880 kilocycles 340.7 meters

CJCB	ak	50	.....	Sydney, N. S.	A—10:00-11:00; noon-2:00; 5:00-10:00
X CJRM	z	500	.....	Moose Jaw, Sask.	C
X 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
X CRCO	z	500	F	Ottawa, Ont.	E
X KFKA	ak	500	2 (1)	Greeley, Colo.	M—6:00-7:30; 9:00-2:30; 4:30-6:00; 8:00-mid.
X KXLX	ae	1000	.....	Oakland, Calif.	P—8:00-11:00
X KPOF	ae	500	2	Denver, Colo.	M—7:30-9:00; 2:30-4:30; 6:00-8:00
X WCOC	ae	500	(1)	Meridian, Miss.	C—7:30-2:00 5:00-10:30
X WGBI	ae	250	1	Scranton, Pa.	E—9:30-12:30; 1:30-4:30; 5:30-8:00
X WQAN	ae	250	1	Scranton, Pa.	E—9:00-9:30 12:30-1:30; 4:30-5:30
X WSUI	ae	500	.....	Iowa City, Iowa.	C—9:00-10:00; 11:00-12:30; 2:00-4:00; 6:00-10:00
YV2BC	z	100	882	Caracas, Venez.	L

890 kilocycles 336.9 meters

CFQC	z	500	Z	Saskatoon, Sask.	C
CMCF	ak	250	1	Havana, Cuba.	E—5:00-8:00; 9:00-11:00
CMX	ae	1000	1	Havana, Cuba.	E—Noon-2:00; 8:00-9:00
X KARK	ak	250	.....	Little Rock, Ark.	C—7:00-2:30; 4:30-9:00
X KFNF	ak	500	2 (1)	Shenandoah, Iowa.	C—5:00-10:00; 11:00-5:00; 6:00-10:00
X KSEI	ck	250	(.5)	Pocatello, Idaho.	M—7:30-11:00
X KUSD	ae	500	2	Vermillion, S. D.	C—8:00-9:00
X WGST	ae	250	C (.5)	Atlanta, Ga.	C—7:00-mid.
X WILL	ak	250	2 (.5)	Urbana, Ill.	C—10:00-12:15; 5:00-6:00
X WJAR	ae	500	R	Providence, R. I.	E—8:00-1:00
X WMMN	ae	250	(.5)	Fairmont, W. Va.	E—7:00-9:30
XETU	z	100	.....	Pachuca, Hdo.	

900 kilocycles 333.1 meters

X KGBU	ak	500	.....	Ketchikan, Alaska.	L
X KHJ	ae	1000	CT	Los Angeles, Calif.	P—7:00-1:00
X VOWR	ak	500	S	St. John's, Nfld.	L—Silent
X WBN	ae	1000	R	Buffalo, N. Y.	E—6:45-Mid.
X WJAX	ae	1000	N	Jacksonville, Fla.	E—7:00-12:30
X WKY	ak	1000	N	Oklahoma City, Okla.	C—6:45-mid.
X WLBL	ae	2500	D	Stevens Point, Wis.	C—8:00-sunset

KCYS.
900
DIAL

CUT OUT ON DOTTED LINES

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910 kilocycles 329.6 meters

CFRC	ak	100	915	Kingston, Ont.	E
CKY	ak	5000		Winnipeg, Man.	C—8:30-1:30; 4:00-11:00
CRCM	z	5000	F	LaPrairie, Que.	E
TICR	z	75	911	San Jose, C. R.	C—6:30-10:00
XEW	ak	5000		Mexico City, D. F.	C

920 kilocycles 325.9 meters

CMCD	ah	500	(.25)	Havana, Cuba.	E—Noon-11:30
CMDE	z	150	925	Havana, Cuba.	E
HHK	ae	1000		Port-au-Prince, Haiti.	E—8:00-9:00
XKFL	ak	500	i	Denver, Colo.	M—6:30-8:30; 10:00-12:30; 3:00-4:30; 9:00-mid.
XKFX	ae	500	1	Denver, Colo.	M—8:30-10:00; 12:30-3:00; 4:30-6:00; 7:30-9:00
XKOMO	ak	1000	N	Seattle, Wash.	P—6:55-mid.
XKPRC	ak	1000	N (2.5)	Houston, Texas.	C—6:30-mid.
XWAF	ak	500	D	Chicago, Ill.	C—6:00-sunset
WBSO	ae	500	D	Babson Park, Mass.	E—8:30-5:15
XWJ	ae	1000	R	Detroit, Mich.	E—7:30-mid.

930 kilocycles 322.4 meters

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

940 kilocycles 319.0 meters

XKOIN	ak	1000	CT	Portland, Ore.	P—6:30-mid.
WAAT	ae	300	D	Jersey City, N. J.	E—6:00-6:00
XWCSH	ae	1000	R (2.5)	Portland, Maine.	E—8:00-mid.
XWDAY	ae	1000	N	Fargo, N. D.	C—7:00-mid.
XWFIW	ak	1000	Y	Hopkinsville, Ky.	C—5:00-7:45; 11:30-1:00; 6:30-9:30
XWHA	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
XKGHL	ak	1000	NJ (2.5)	Billings, Mont.	M—8:00-11:00
XKMBC	ak	1000	C	Kansas City, Mo.	C—6:00-mid.
XWRC	ae	500	R	Washington, D. C.	E—6:30-1:00

960 kilocycles 312.3 meters

CMBD	z	250	965	Havana, Cuba.	E—Noon-6:00
XCMCW	ak	150	965	Havana, Cuba.	E—6:00-mid.
CMJL	z	50		Camaguey, Cuba.	
CRCT	z	5000	NF	Toronto, Ont.	E
XEAW	ak	10000	965	Reynosa, Tams.	C—5:00-1:00
YVIBC	ak	5000		Caracas, Venez.	L—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
XKJR	z	5000	N	Seattle, Wash.	P—6:55-mid.
XWCL	ae	1500	BX	Chicago, Ill.	C—7:00-mid.

980 kilocycles 303.9 meters

XKDKA	ak	50000	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
XWBZ	ak	25000	BSy	Boston, Mass.	E
XWBZA	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

XKFVD	ae	250	Dn	Los Angeles, Calif.	P-6:30-sunset; 10:00-mid.
XWHO					
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

XCHML	aei	50	M	Hamilton, Ont.	E-8:00-11:00
XCHWC	ae	500	3F	Regina, Sask.	M-7:00-9:00; 10:00-11:00; noon-1:00; 3:30-6:30
CKCD	ak	100	.....	Vancouver, B. C.	P-8:30-9:00
XCKCK	ak	500	3F	Regina, Sask.	M-9:00-10:00; 11:00-noon; 1:00-3:30; 5:30-11:00
XCKCO	z	100	.....	Ottawa, Ont.	E
CKIC	ak	50	.....	Wolfville, N. S.	A-Noon-1:00; 6:00-7:00
XCKWX	aei	100	LZ	Vancouver, B. C.	P-7:00-8:30; 9:00-mid.
CMBZ	ak	150	.....	Havana, Cuba.	E-11:00-1:00; 4:00-6:00; 8:30-11:00
CMJO	ak	50	.....	Ciego de Avila, Cuba.	E-9:00-1:00; 6:00-10:00
XKGGF	ak	500	2 (1)	Coffeyville, Kans.	C-7:30-2:00; 5:00-10:30
KQW	ae	500	.....	San Jose, Calif.	P-7:00-8:00; 9:00-3:00; 4:30-10:00
TIGA	z	30	1014	Cartago, C. R.	
WHN	ae	250	1	New York, N. Y.	E-9:30-1:00
WIS	ae	500	N (1)	Columbia, S. C.	E-8:00-mid.
XWNAD	ae	500	2	Norman, Okla.	C-Silent
WPAP	ae	250	1	New York, N. Y.	E-9:30-3:30
WQAO	ae	250	1	New York, N. Y.	E-Silent
XWRNY	ae	250	1	New York, N. Y.	E-1:00-1:30; 3:30-9:30
XEJ	ak	500	1015	Juarez, Chih.	C
XEU	ak	100	.....	Veracruz, Ver.	C-7:00-9:00; 10:00-2:00; 5:00-11:00

KCYS.
1070
DIAL

1020 kilocycles 293.9 meters

XKYW	ae	10000	N	Chicago, Ill.	C-8:00-1:00
WRAX	ak	250	D	Philadelphia, Pa.	E-7:00-7:00
XES	dk	250	.....	Tampico, Tams.	E-10:00-2:30; 5:00-10:00

1030 kilocycles 291.1 meters

CFCN	ak	10000	.....	Calgary, Alta.	M
CFNB	ae	500	FE	Fredericton, N. B.	A-8:30-9:30; 12:30-2:00; 7:30-10:00
XCKNC	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
XMKC	z	150	1034	Santiago, Cuba.	E
XEB	ak	10000	.....	Mexico City, D. F.	C-9:30-10:00

1040 kilocycles 288.3 meters

CMGH	ak	15	.....	Matanzas, Cuba.	E-2:00-3:00; 5:00-6:00; 7:30-8:30
XKRLD	ae	10000	1C	Dallas, Texas.	C
XKTHS	ae	10000	1N	Hot Springs, Ark.	C
XWESG	ak	1000	D	Elmira, N. Y.	E-8:00-7:00
XWKAR	ak	1000	D	East Lansing, Mich.	E

1050 kilocycles 285.5 meters

CHNS	ae	500	FL	Halifax, N. S.	A-8:00-1:30; 2:30-4:30; 6:00-mid.
CMJG	z	50	.....	Camaguey, Cuba.	E
XKFB	ak	5000	Dn	Abilene, Kans.	C-6:00-sunset
XKNX	ak	25000	.....	Hollywood, Calif.	P-6:45-11:00
XEFC	ak	100	.....	Merida, Yuc.	C-8:00-10:00

1060 kilocycles 282.8 meters

XKWJJ	ak	500	.....	Portland, Ore.	P-6:00-8:00; 9:00-2:00
WBAL	ae	10000	1B	Baltimore, Md.	E-7:30-3:00
XWJAG	ak	1000	D	Norfolk, Neb.	C-6:45-sunset
XWTIC	ak	50000	1R	Hartford, Conn.	E

1070 kilocycles 280.2 meters

CMBG	z	225	Havana, Cuba.	E
CMCB	ak	150	Havana, Cuba.	E

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KJBS ae 100 D
 X WCAZ ae 50 D
 X WDZ ak 100 D
 X WTAM ck 5000 R
 X XEG z 500 1075

San Francisco, Calif. P—12:01-sunset
 Carthage, Ill. C
 Tuscola, Ill. C—8:00-4:00
 Cleveland, Ohio. E—6:30-1:00
 Mexico City, D. F. C—(Mail returned)

1080 kilocycles 277.6 meters

VOKW z 30 1085
 X WBT ae 25000 CU
 X WCBDB ae 5000 1Dn
 X WMBI ae 5000 1Dn
 X XEFG ak 500 1085

St. John's, Nfld. L—Noon-2:00; 9:00-mid.
 Charlotte, N. C. E—7:00-mid.
 Zion, Ill. C—7:30-10:30; 1:30-sunset
 Chicago, Ill. C—7:00-7:30; 10:30-1:30; 3:00-4:00; mid.-1:00
 Mexico City, D. F. C—10:30-4:00; 7:00-mid.

1090 kilocycles 275.1 meters

X KMOX ak 50000 C
 X XEAI z i00

St. Louis, Mo. C—6:30-12:30
 Mexico City, D. F. (Air mail returned)

1100 kilocycles 272.6 meters

GMCU ak 500
 CRDV ak 500 F
 KGDW ak 250 D
 TIRCA ak 500
 X LWLW ae 5000 1
 X WPG ak 5000 1C

Havana, Cuba. E—6:00-mid.
 Vancouver, B. C. P—10:00-1:00; 5:30-11:00
 Stockton, Calif. P—6:00-6:30
 San Jose, C. R. C—11:00-1:00; 5:00-10:30
 New York, N. Y. E—2:00-3:00; 6:00-8:00
 Atlantic City, N. J. E—9:00-2:00; 3:00-6:00; 8:00-1:00

1110 kilocycles 270.1 meters

X KSOO ae 1000 Dn (2.5)
 X WRVA ae 5000 N
 X XENT ak 15000 1115

Sioux Falls, S. D. C—6:00-6:30
 Richmond, Va. E—7:00-mid.
 Nuevo Laredo, Tams. C—6:00-8:00; 10:00-2:00; 5:00-10:00

1120 kilocycles 267.7 meters

CHGS ae 100 F
 CHLP z 100
 CKOK ae 500 F
 CMHJ ae 60 1125
 X KFIO ae 100 D
 X KFSG ag 500 a
 X KRKD ae 500 a
 KRSC ak 100 D
 X KTRH z 1000 2C
 X WDEL ak 250 (.5)A
 X WHAD ak 250 1C
 X WISN ak 250 1
 X WTAW ae 500 2

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

1130 kilocycles 265.3 meters

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

Salt Lake City, Utah. M—6:45-mid.
 Chicago, Ill. C—6:30-10:00
 New York, N. Y. E—8:00-2:00; 3:00-6:00
 Monterrey, N. L. C—8:00-1:30; 5:00-10:30

1140 kilocycles 263.0 meters

CMBJ z 500
 X CMBW ak 600
 X KVOO ae 5000 IN
 X WAPI ae 5000 IN

Havana, Cuba. E—Noon-7:00
 Havana, Cuba. E—Silent
 Tulsa, Okla. C—6:30-7:00; 9:00-mid.
 Birmingham, Ala. C—6:00-9:00

1150 kilocycles 260.7 meters

CMJH ak 50
 X WHAM ae 25000 B
 X XED ak 300 1155
 10-AT ak 25 1155

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

1160 kilocycles 258.5 meters

X WOWO ae 10000 1C
 X WWVA ae 5000 1C

Fort Wayne, Ind. C—8:30-5:45; 7:30-10:00
 Wheeling, W. Va. E—6:30-8:30; 10:00-mid.

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1170 kilocycles 256.3 meters

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CMJE z 50 1175
 WCAU ae 50000 C

Camaguey, Cuba. E.
 Philadelphia, Pa. E-8:00-1:00

1180 kilocycles 254.1 meters

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CMBN ak 150 1185
 CMCJ ak 500 1185
 HJK z 15000
 XKEX ak 5000 2N
 XKOB ak 10000 2
 XWDGY ae 1000 Dn
 WINS ae 500
 WMAZ ak 500
 XETA z 250

Havana, Cuba. E
 Havana, Cuba. E-Noon-2:00; 4:00-6:00; 7:00-10:00
 Santo Domingo, D. R.
 Portland, Ore. P-7:00-4:45; 8:00-mid.
 Albuquerque, N. M. M-Noon-1:00; 5:00-9:00
 Minneapolis, Minn. C-6:30-8:15
 New York, N. Y. E-6:00-7:00
 Macon, Ga. E-7:30-3:00; 5:00-8:15
 Mexico City, D. F.

1190 kilocycles 252.0 meters

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HJ z 15 1195
 VONF ak 400 1195
 WAOI ae 50000 N
 WSAZ ak 1000

Santo Domingo, D. R. E-12:30-2:30; 6:30-8:30
 St. John's, Nfld. L-Noon-2:00; 6:00-9:00
 San Antonio, Texas. C-6:30-11:30
 Huntington, W. Va. E-8:00-8:00

1200 kilocycles 249.9 meters

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CHAB ak 25 F
 CKOV ak 100 F
 XCKTB ae 100 GP
 CMGB z 30 1205
 KBTM ak 100 D
 KERN ak 100 CT
 XKFJB ak 100 (.25)
 XKFXD ae 100
 XKFXJ ak 100
 XKGDE ak 100 (.25)
 XKGEK ak 100
 XKGFI ae 100
 XKGHI ak 100 (.25)
 XKGVO ak 100
 XKMLB ak 100
 KSUN ae 100 D
 KVOS ak 100
 XKWG ae 100 CT
 XWABI ak 100
 XWBBX ak 100 1
 XWBBZ ak 100
 XWBHS z 100 4
 XWCAT ak 100 D
 XWCAZ ak 100 A
 XWGLO ak 100
 XWCOD ak 100 3
 XWFAM ak 100 8C
 XWFBZ ak 100 4 (.25)
 XWBE ak 100 (.25)
 XWHBC ak 100 2
 XWHBY ak 100
 XWIBX ae 100 (.3)
 XWIL ak 100 5 (.25)
 XWJBC ae 100 6
 XWJBL ae 100 6
 XWJBW ak 100 1
 XWJCK ae 100 3
 XWLAP ae 100 (.25)
 XWNBO ae 100 2
 WNBW z 10 (.1)
 XWPHR ak 100 (.25)
 XWRBL z 100
 XWVAE ae 100 8
 YV3BC ak 1000
 10-AK ak 15
 X10-BI ak 25
 X10-BP ak 15
 X10-BQ ak 5
 10-BU z 15

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

KCY.S.
 1210
 DIAL

CUT OUT ON DOTTED LINES

1210 kilocycles 247.8 meters

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CFBO z 100
 CFCC ak 100 FL

St. John, N. B. A
 Chatham, Ont. E-7:15-10:00

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With Friday's Time on the Air

CHNC	ak	100	PF	New Carlisle, Que. A—1:00-mid.
CKJOR	ak	500	Vancouver, B. C. P—7:30-10:30
CKHC	z	100	.....	Hull, Que. E
CKMC	ak	100	.....	Cobalt, Ont. E
XKASA	ak	100	.....	Elk City, Okla. C—6:30-1:30; 5:00-7:00
XKDLR	ak	100	.....	Devils Lake, N. D. C—8:00-2:15; 6:00-8:00
KFJI	ak	100	.....	Klamath Falls, Ore. P—8:30-9:00
XKFOR	ak	100	(.25)	Lincoln, Neb. C—7:00-10:00
XKFPW	ak	100	.....	Fort Smith, Ark. C—7:00-2:00; 5:00-10:00
XKFVS	ae	100	6	Cape Girardeau, Mo. C—9:00-noon; 4:00-8:30
XKFXM	ak	100	9	San Bernardino, Calif. P—6:00-mid.
XKGR	ak	100	.....	Watertown, S. D. C
XKGY	ak	100	.....	Olympia, Wash. P—6:00-mid.
XKIEM	ak	100	.....	Eureka, Calif. P—7:45-sunset
XKPPC	ak	50	9	Pasadena, Calif. P—Silent
XKWEA	z	100	.....	Shreveport, La. C
XKWFV	z	100	.....	Hilo, Hawaii. L
XWALR	ae	100	.....	Zanesville, Ohio. E
XWBAX	ae	100	1	Wilkes Barre, Pa. E
XWBBL	ak	100	7S	Richmond, Va. E—Silent
XWCBW	ak	100	2	Springfield, Ill. C—11:15-3:00; 6:45-9:00
XWCRW	ae	100	4	Chicago, Ill. C—11:00-2:00; 5:00-7:00
XWEBQ	ae	100	6	Harrisburg, Ill. C—6:00-9:00; noon-4:00; 8:30-mid.
XWEDC	ae	100	4	Chicago, Ill. C—8:30-10:00; 3:30-5:00; 7:00-8:00; 10:00-11:00; mid.-2:00
XWFAS	ak	100	3A	White Plains, N. Y. E—Silent
XWGBB	ae	100	3	Freeport, N. Y. E—Silent
XWGCM	ae	100	(.25)	Mississippi City, Miss. C—Silent until Dec. 29
XWGNV	ak	100	.....	Chester, N. Y. E
XWHBF	ak	100	.....	Rock Island, Ill. C—7:30-10:00
XWHBU	ah	100	.....	Anderson, Ind. C—7:00-7:15
XWHET	ak	100	D	Troy, Ala. C—9:00-sunset
XWIBU	a	100	.....	Poynette, Wis. C
XWJBI	ak	100	3A	Red Bank, N. J. E—9:00-noon; 2:00-mid.
XWJBY	ak	100	.....	Gadsden, Ala. C—9:00-9:00
XWJEJ	ah	100	D	Hagerstown, Md. E—7:00-1:00; 4:00-7:45
XWJW	ak	100	.....	Akron, Ohio. E—9:00-11:30
XWKFI	ak	100	Y	Greenville, Miss. C—7:00-7:00
XWKOK	ak	100	1P	Sunbury, Pa. E
XWMBG	ak	100	7C	Richmond, Va. E—7:00-mid.
XWOCL	ak	50	.....	Jamestown, N. Y. E—Noon-mid.
XWOMT	ae	100	.....	Manitowoc Wis. C
XWPRO	ak	100	A	Providence, R. I. E—9:00-2:00; 4:00-11:15
XWQDX	ae	100	.....	Thomasville, Ga. E—8:00-9:00
XWSBC	ae	100	4	Chicago, Ill. C—6:00-8:30; 10:00-11:00; 2:00-3:30; 8:00-10:00; 11:00-mid.
XWSEN	ak	100	.....	Columbus, Ohio. E—8:00-mid.
XWSIX	ak	100	.....	Springfield, Tenn. C—6:00-4:00; 6:00-9:00
XWSOC	ae	100	.....	Charlotte, N. C. E
XWTAX	ae	100	2	Springfield, Ill. C
XKEX	z	500	.....	Mexico City, D. F. (All mail returned)

1220 kilocycles 245.8 meters

CMHK	ak	50	1225	Cruces, Cuba. E—10:00-11:30
XKFKU	ae	500	a	Lawrence, Kans. C—2:30-3:00; 6:00-6:15
KTW	ak	1000	SZ	Seattle, Wash. P—Silent
XKWSC	ae	1000	2(2)	Pullman, Wash. P—Noon-2:30; 4:30-8:00
XKCAD	ak	500	D	Canton, N. Y. E—12:30-1:30; 3:00-4:00
XKCAE	ae	1000	R	Pittsburgh, Pa. E—6:45-1:00
XKDAE	ae	1000	CW	Tampa, Fla. E—8:00-mid.
XKREN	ak	1000	Ba	Lawrence, Kas. C—7:00-mid.

1230 kilocycles 243.8 meters

CMBY	z	250	2	Havana, Cuba. E
CMCA	z	150	2	Havana, Cuba. E
XKGGM	ak	250	(.5)	Albuquerque, N. M. M—6:00-noon; 4:00-8:00
XKYA	ae	1000	N	San Francisco, Calif. P—7:30-mid.
XKFBM	ae	1000	1C	Indianapolis, Ind. C—7:30-10:15; noon-3:00; 5:30-11:30
XKNAC	ak	1000	CH	Boston, Mass. E—6:30-1:00
XKSBT	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	.....	Camaguey, Cuba. E
XKGLU	ak	250	1	Mandan, N. D. M—Noon-5:00; 6:45-9:00
XKLFM	ak	250	1	Minot, N. D. C—7:00-1:00; 6:00-7:45
XKTAT	ak	1000	C	Fort Worth, Texas. C—7:00-mid.

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X	KTFI	ae	1000	Twin Falls, Idaho.	M—6:00-mid.
X	WKAQ	ae	1000	San Juan, P. R.	A—12:15-3:15; 6:30-10:00
X	WXYZ	ak	1000	K	Detroit, Mich.	E—7:30-mid.

1250 kilocycles 239.9 meters

X	KFOX	ae	1000	.....	Long Beach, Calif.	P—6:00-mid.
X	WAAM	ae	1000	1a (2.5)	Newark, N. J.	E—7:00-9:00; 10:00-noon; 2:00-4:30; 9:00-mid.
X	WCAL	ah	1000	2	Northfield, Minn.	C—9:45-10:15; 8:00-10:00
X	WDSU	ak	1000	C	New Orleans, La.	C—7:00-11:45
X	WGCP	ak	250	1	Newark, N. J.	E—2:00-5:00; 8:00-10:00
X	WLB	ak	1000	2	Minneapolis, Minn.	C—12:30-1:00; 4:00-5:00
X	WODA	z	1000	1a (2.5)	Paterson, N. J.	E
X	WRHM	ak	1000	2	Minneapolis, Minn.	C—6:15-9:45; 10:35-12:30; 1:00-4:00; 5:00-8:00; 9:00-mid.
X	XEFA	z	500	.....	Mexico City, D. F.	C

1260 kilocycles 238.0 meters

X	KOIL	ak	1000	B	Council Bluffs, Iowa.	C—6:00-1:00
X	KRGV	ae	500	1	Harlingen, Texas.	C—7:00-9:30; 12:30-3:30
X	KUOA	ak	1000	.....	Fayetteville, Ark.	C—7:00-6:30
X	WGOA	ak	500	.....	Tucson, Ariz.	M—6:00-9:00; noon-3:00; 6:00-9:00
X	KWVG	z	500	1	Brownsville, Texas.	C
X	WLBW	ae	500	C(1)	Erie, Pa.	E—8:00-1:00
X	WNBX	ak	250	D	Springfield, Vt.	E—7:30-sunset
X	WTOC	ae	500	C	Savannah, Ga.	E—7:00-1:00
X	XEFI	ak	250	.....	Chihuahua, Chih.	C—1:00-3:00; 8:00-10:30

1270 kilocycles 236.1 meters

X	CMBC	ae	150	1	Havana, Cuba.	E
X	CMCP	z	150	1	Havana, Cuba.	E
X	KGCA	ak	100	2D	Decorah, Iowa.	C—8:30-9:45; 10:45-11:30; 12:30-2:30
X	KOL	ae	1000	CT	Seattle, Wash.	P—6:45-mid.
X	KVOR	ae	1000	C	Colorado Springs, Colo.	M—7:00-11:00
X	KWLC	ak	100	2D	Decorah, Iowa.	C—7:30-8:30; 9:45-10:45; 11:30-12:30; 2:30-3:30
X	WASH	ak	500	Ka	Grand Rapids, Mich.	E—7:00-mid.
X	WFBR	ae	500	E	Baltimore, Md.	E—7:10-1:00
X	WJDX	ae	1000	N	Jackson, Miss.	C—7:00-11:00
X	WOOD	ak	500	Ka	Grand Rapids, Mich.	E—7:00-mid.

1280 kilocycles 234.2 meters

X	CMJI	ak	45	.....	Ciego de Avila, Cuba.	E
X	KFBB	ae	1000	(2.5)	Great Falls, Mont.	M—8:00-3:00; 5:00-10:00
X	WCAM	ae	500	1A	Camden, N. J.	E—11:00-noon; 2:00-5:00; 9:00-mid.
X	WCAP	ae	500	1A	Asbury Park, N. J.	E—9:00-11:00; noon-1:00; 8:00-9:00
X	WDOD	ae	1000	C(2.5)	Chattanooga, Tenn.	C—7:00-11:00
X	WIBA	ae	500	N(1)	Madison, Wis.	C—7:30-mid.
X	WORC	ak	500	CH	Worcester, Mass.	E—8:00-mid.
X	WRR	ak	500	C	Dallas, Texas.	C—7:00-11:00
X	WTNJ	ak	500	1A	Trenton, N. J.	E—1:00-2:00; 5:00-8:00
X	XEFJ	ak	70	.....	Tampico, Tams.	E—8:00-10:00; noon-2:00; 5:00-6:00; 7:00-10

KCY5.
1310
DIAL

1290 kilocycles 232.4 meters

X	CMHL	ak	20	.....	Cienfuegos, Cuba.	E—10:00-noon; 6:00-9:00
X	KDYL	ae	1000	NJ	Salt Lake City, Utah.	M—6:30-1:00
X	KLNC	z	100	D	Blytheville, Ark.	C
X	KTSA	ak	1000	C	San Antonio, Texas.	C—7:00-mid.
X	WEBC	ae	1000	N(2.5)	Superior, Wis.	C—7:00-mid.
X	WJAS	ak	1000	C(2.5)	Pittsburgh, Pa.	E—7:30-12:30
X	WNBZ	z	50	D	Saranac Lake, N. Y.	E
X	XEAC	z	100	1295	San Luis Potosi, S. L. P.	
X	XFB	ak	1000	.....	Jalapa, Ver.	C—8:00-9:00; 1:00-2:30; 8:00-11:30

1300 kilocycles 230.6 meters

X	CMKJ	z	20	.....	Guantanamo, Cuba.	E
X	KALE	ak	500	3CT	Portland, Ore.	P—7:00-10:30; 2:30-5:00; 6:00-7:00
X	KFAC	ae	1000	.....	Los Angeles, Calif.	P—7:00-mid.
X	KFH	ak	1000	C2	Wichita, Kans.	C—7-8:30; 9-11; 11:30-2; 3-6; 7-9; 10-11
X	KFJR	ag	500	3	Portland, Ore.	P—10:30-2:30; 5:00-6:00; 7:00-mid.
X	WBBR	aej	1000	1	Brooklyn, N. Y.	E—6:00-7:00; 10:00-noon; 6:00-8:00
X	WEVD	ak	500	1	New York, N. Y.	E—4:00-6:00
X	WFAB	ae	1000	1	New York, N. Y.	E—9:00-10:00; noon-3:00; 9:00-10:00
X	WHAZ	ae	500	1	Troy, N. Y.	E—Silent
X	WTOD	ae	1000	N	Miami, Fla.	E—7:15-mid.
X	WQQ	ae	1000	2	Kansas City, Mo.	C—6-7; 8:35-9:05; 11-11:30; 2-3; 6-7; 9-10; 11-mid.

CUT OUT ON DOTTED LINES

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1310 kilocycles 228.9 meters

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; 6:30-8:00
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
KFPM	ae	15	.....	Greenville, Texas.	C-7:45-9:00; 1:00-2:45; 6:00-9:00
KFXR	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
WAML	ak	100	.....	Laurel, Miss.	C-7:00-10:00; 11:00-2:00; 4:00-7:00
WBEO	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
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	az	100	3	Altoona, Pa.	E-10:30-2:30; 6:15-9:15
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; 8:00-10:30
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; 5:00-6:30
WIAS	ak	100	7	Ottumwa, Iowa.	C
WIAC	ae	100	3	Johnstown, Pa.	E-9:00-10:30; 4:30-6:15; 9:15-11:15
WKBB	ae	100	b	E. Dubuque, Ill.	C
WKBC	ak	100	.....	Birmingham, Ala.	C-7:00-10:00
WLBC	ak	50	6X	Muncie, Ind.	C-7:00-10:00
WMBO	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; 6:00-8:00
WROL	ak	100	.....	Knoxville, Tenn.	C-7:00-1:00; 4:00-11:00
WSAJ	ae	100	.....	Grove City, Pa.	E-Silent
WSJS	ak	100	C	Winston-Salem, N. C.	E-7:45-mid.
WTFL	ah	100	4	Philadelphia, Pa.	E-7:00-9:00; noon-1:00; 6:30-9:00
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

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.

1330 kilocycles 225.4 meters

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
WDRG	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-7:00-7:45
XEQ	z	500	.....	Mexico City, D. F.	

1340 kilocycles 223.7 meters

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 Friday's Time on the Air

1350 kilocycles 222.1 meters

KIDO	ak	1000	Boise, Idaho.	M—8:00-8:30
XKWK	ak	1000	B	St. Louis, Mo.	C—7:00-mid.
TGW	ak	500	.....	Guatemala City, Guat.	L—Noon-1:00; 6:00-7:00; 9:00-11:00
XWAWZ	ae	250	1	Zarephath, N. J.	E—6:00-9:00; 5:00-6:30
XWBNX	ae	250	1A	New York, N. Y.	E—9:00-11:30
XWEHC	ae	500	D	Charlottesville, Va.	E

1360 kilocycles 220.4 meters

CMJP	ak	75	.....	Moron, Cuba.	E—10:00-noon; 8:00-10:00
XKGER	ak	1000	.....	Long Beach, Calif.	P—6:00-mid.
XKGR	ak	500	N (1)	Butte, Mont.	M—7:00-mid.
WCSC	ak	500	.....	Charleston, S. C.	E—8:00-10:30; noon-2:00; 7:00-10:00
XWFBL	ak	1000	C (2.5)	Syracuse, N. Y.	E—8:00-1:00
XWGES	ae	500	.....	Chicago, Ill.	C—5:45-11:00; 5:00-8:00
XWQBC	ak	500	.....	Vicksburg, Miss.	C

1370 kilocycles 218.8 meters

CMCN	z	250	1375	Havana, Cuba.	E
CMCR	ak	150	1375	Havana, Cuba.	E—Noon-1:00; 4:00-5:00; 9:00-11:00
CMGE	z	30	1375	Cardenas, Cuba.	E
XKFBL	ak	100	2(.25)	Enid, Okla.	C—6:00-9:00; 11:00-2:00; 5:00-7:45; 10:00-mid.
KFBL	ae	50	3	Everett, Wash.	P—9:00-noon; 3:00-6:00; 9:00-mid.
XKFJZ	ak	100	.....	Grand Forks, N. D.	C—7:00-9:00
XKGR	ak	100	.....	Fort Worth, Texas.	C—7:00-11:00
XKGFJ	ae	100	(.25)	Tucson, Ariz.	M—7:00-9:00
XKGFJ	ak	100	2	Oklahoma City, Okla.	C
XKGFJ	ak	100	4	Roswell, N. M.	M—6:00-9:30; 2:00-7:30
XKGLK	ak	100	.....	San Angelo, Texas.	C—8:00-4:30; 6:00-10:00
KICA	z	100	4	Clovis, N. M.	M—9:30-2:00; 7:30-9:30
KLUF	z	100	.....	Galveston, Texas.	C
XKMAC	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
XKONO	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
XKOOS	ae	100	.....	Marshfield, Ore.	P—7:00-9:00
XKRE	ak	100	.....	Berkeley, Calif.	P—6:30-9:30; noon-3:00; 6:00-9:00
XKSO	ak	100	B(.25)	Des Moines, Iowa.	C—6:30-mid.
KUJ	ak	100	.....	Walla Walla, Wash.	P—6:45-9:00
XKVL	ak	100	3	Seattle, Wash.	P—6:00-9:00; noon-3:00; 6:00-9:00
XKWKC	z	100	7	Kansas City, Mo.	C
XWBTM	ak	100	.....	Danville, Va.	E—8:00-1:00; 4:00-6:30
XWCBM	ae	100	(.25) A	Baltimore, Md.	E—7:00-mid.
XWDAS	ae	100	(.25)	Philadelphia, Pa.	E—9:00-11:00
XWGL	ae	100	C	Fort Wayne, Ind.	C—6:30-mid.
XWGLC	ak	100	C	Hudson Falls, N. Y.	E—7:30-mid.
XWHBD	ak	100	.....	Mount Orab, Ohio.	E—8:00-11:30; noon-9:00
XWHBQ	ak	100	.....	Memphis, Tenn.	C—7:55-2:00; 4:00-10:30
XWHDF	ak	100	(.25)	Calumet, Mich.	E—7:00-9:00; 11:30-1:30; 5:30-8:30
XWIBM	ae	100	1K	Jackson, Mich.	E—7:30-9:00
XWJBK	ae	50	1	Detroit, Mich.	E—7:00-sunset; 9:00-mid.
XWJTL	ae	100	.....	Atlanta, Ga.	E
WLVEY	ak	100	(.25)	Lexington, Mass.	E—Noon-3:00; 6:00-9:00
WLVA	ck	100	7	Lynchburg, Va.	E—7:00-11:00; 1:00-3:00; 6:30-11:00
XWMBR	ak	100	.....	Tampa, Fla.	E—7:00-9:30
WPFB	ak	100	.....	Hattiesburg, Miss.	C
XWQDM	ae	100	D	St. Albans, Vt.	E
XWRAK	ak	100	.....	Williamsport, Pa.	E—8:30-3:00; 5:00-10:30
XWRAM	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
XWSVS	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

KCYS.
1380
DIAL

CUT OUT ON DOTTED LINES

1380 kilocycles 217.3 meters

CMJC	z	150	1382	Camaguey, Cuba.	E
XKOH	ak	500	C	Reno, Nev.	P—8:00-10:00
XKQV	ak	500	2	Pittsburgh, Pa.	E—7:00-10:00
IGX	z	75	.....	Guatemala City, Guat.	
XKBBH	ae	1000	C	LaCrosse, Wis.	C—7:30-10:00
XWSMK	ak	200	2	Dayton, Ohio.	E—7:00-8:00; 10:00-mid.
XETB	z	125	.....	Torreon, Coah.	

INDEX BY FREQUENCIES AND DIAL NUMBERS

With Friday's Time on the Air

1390 kilocycles 215.7 meters

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

San Pedro de Macoris, D. R. L-12:15-2:00; 10:00-11:00
 Little Rock, Ark. C-7:00-mid.
 Phoenix, Ariz. M
 Cleveland, Ohio. E-7:00-mid.

1400 kilocycles 214.2 meters

KLO	ah	500	C
KOCW	z	250	(.5)
VOGY	ak	75	.....
WARD	ak	500	2
XWBAA	z	500	1
XWBBC	ae	500	2
XWFOX	ak	500	2
XWKBF	ak	500	1N
XWLTH	ak	500	2

Ogden, Utah. M-8:30-10:30
 Tulsa, Okla. C
 St. John's, Nfld. L-10:30-11:30; 1:00-2:00; 6:15-8:00
 Brooklyn, N. Y. E
 Lafayette, Ind. C-7:00-8:00
 Brooklyn, N. Y. E-4:00-6:00; 10:00-1:00
 Brooklyn, N. Y. E
 Indianapolis, Ind. C-6:00-7:00; 8:00-mid.
 Brooklyn, N. Y. E-1:30-4:00; 9:00-10:00

1410 kilocycles 212.6 meters

CKFC	ak	50	5
CKMO	z	100	5
CMCH	ak	50	.....
CMMC	z	15	.....
XKFLV	ak	500	4
KGRS	ae	1000	1
WAAB	ae	500	CH
XWBCM	ae	500	K
WDAG	ae	1000	1
WHBL	ae	500	4
WHIS	ak	250	2
WODX	ae	500	3C
XWRBX	ae	250	2
XWSFA	ck	500	3C

Vancouver, B. C. P-3:00-4:30
 Vancouver, B. C. P
 Havana, Cuba. E
 Havana, Cuba. E
 Rockford, Ill. C-10:00-12:30 3:00-6:00 8:00-10:45
 Amarillo, Texas. C-6-8; 10-12:30; 2:15-7:30; 9-10
 Boston, Mass. E-8:30-mid.
 Bay City, Mich. E-8:00-mid.
 Amarillo, Texas. C-8-10; 12:30-2:15; 7:30-9; 10-mid.
 Sheboygan, Wis. C-7:00-10:00, 12:30-3:00; 6:00-8:00
 Bluefield, W. Va. E-7:00-9:00; noon-3:00; 6:00-8:00
 Mobile, Ala. C-7:00-6:15; 7:45-10:30
 Roanoke, Va. E
 Montgomery, Ala. C-6:00-7:45

1420 kilocycles 211.1 meters

XKABC	ak	100	.....
KBPS	aj	100	4
XKCMC	ak	100	.....
KFIZ	ak	100	.....
XKGFJ	ak	100	.....
XKGGC	ak	100	.....
XKGIW	ak	100	1Y
XKGIX	ak	100	.....
KICK	z	100	.....
KIDW	z	100	1
KORE	ae	100	.....
XKUMA	ak	100	.....
XKWCR	ak	100	B(.25)
XKXL	ae	100	4
XWACO	ak	100	C
XWAGM	ae	100	.....
XWAMC	ae	100	.....
XWAZL	ak	100	2
XWEED	ak	100	D
XWEHS	ak	100	a
XWELL	ak	50	.....
XWENC	ak	100	D
XWHDL	ae	100	D
XWHFC	ae	100	a
XWILM	aj	100	2
XWJBO	z	100	D
XWJMS	ak	100	.....
XWKBI	ak	100	a
XWLBf	ak	100	.....
XWNAS	ak	100	CH(.25)
XWBMC	ag	100	(.25)
XWMBH	ak	100	(.25)
XWNRA	ak	100	D
XWPAD	ak	100	.....
XWSPA	ae	100	(.25)
WTBO	ae	100	(.25)

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

1430 kilocycles 209.7 meters

CFCT	ae	50	.....
XKECA	ak	1000	N
XKGNF	ak	500	D

Victoria, B. C. P-8:00-12:30; 6:00-8:00; mid.-2:00
 Los Angeles, Calif. P-7:00-11:00
 North Platte, Neb. C-7:00-sunset

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With Friday's Time on the Air

WBAK	ak	500	1 (1)	Harrisburg, Pa.	E				
XWCAI	ae	500	1C	Columbus, Ohio.	E-8:00-mid.				
XWFEA	ae	500	CH	Manchester, N. H.	E-7:30-11:00				
XWHEC	ae	500	C	Rochester, N. Y.	E				
XWHP	ak	500	1C(1)	Harrisburg, Pa.	E-8:30-10:30; 11:30-1:30; 2:30-4:00; 4:30-1:00				
XWNBR	ak	500	.....	Memphis, Tenn.	C-8:00-1:00; 3:00-10:00				
XWOKO	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-Noon-1:00; 6:00-8:00				
KDFN	ak	500	.....	Casper, Wyo.	M-7:30-2:00; 3:30-9:00				
XKLS	ak	250	D	Oakland, Calif.	P-8:00-sunset				
XKXYZ	ak	250	.....	Houston, Texas.	C-6:30-1:00; 2:30-11:00				
TIFS	z	7.5	1441	Cartago, C. R.	L				
XWBIG	ae	500	C(1)	Greensboro, N. C.	E-8:00-11:00				
XWBCA	aj	250	a	Allentown, Pa.	E-7:30-mid.				
XWMBD	ae	500	3C(1)	Peoria, Ill.	C-6:00-11:00; 8:00-mid.				
XWSAN	aj	250	a	Allentown, Pa.	E-7:30-mid.				
XWTDAD	ak	500	3	Quincy, Ill.	C-11:00-8:00				

1450 kilocycles 206.8 meters

XKTBS	ck	1000	N	Shreveport, La.	C-7:00-mid.				
TIEP	z	7.5	.....	San Jose, C. R.	L				
XWGAR	ak	500	B(1)	Cleveland, Ohio.	E-6:00-1:00				
XWHOM	X	250	.....	Jersey City, N. J.	E-8:00-mid.				
XWSAR	ae	250	A	Fall River, Mass.	E-8:00-3:30; 5:00-10:00				
XWTFI	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

XKSTP	ae	2500	(N 10)	St. Paul, Minn.	C-6:45-12:30				
XWJSV	ak	1000	C	Washington, D. C.	E-6:30-mid.				

1470 kilocycles 204.0 meters

XKGA	X	ak	5000	N	Spokane, Wash.	P-6:00-mid.			
XWLAC	ae	5000	C	Nashville, Tenn.	C-7:00-mid.				

1480 kilocycles 202.6 meters

XKOMA	ak	5000	C	Oklahoma City, Okla.	C-6:30-mid.				
XWKBW	ae	5000	C	Buffalo, N. Y.	E-10:00-1:00				

1490 kilocycles 201.2 meters

XWCKY	ae	5000	BY	Covington, Ky.	E-7:00-mid.				
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1500 kilocycles 199.9 meters

CRCS	z	100	Chicoutimi, Que.					
KDB	ak	100	CT	Santa Barbara, Calif.	P-7:30-mid.				
XKGF1	ak	100	(.25)	Corpus Christi, Tex.	C-7:00-3:00; 6:00-10:00				
XKGF2	ak	100	.....	Moorhead, Minn.	C-8:00-9:00				
XKGBK	ak	100	.....	Tyler, Texas.	C-8:00-10:00; noon-2:00; 5:00-6:00; 7:30-9:00				
XKNGY	ck	100	.....	Scottsbluff, Neb.	M-9:00-1:30; 5:30-9:00				
XKNW	ak	100	.....	Austin, Texas.	C-7:30-2:00; 4:00-10:00				
KPJM	ak	100	.....	Prescott, Ariz.	M-7:00-8:00				
KPQ	aj	100	.....	Wenatchee, Wash.	P-7:00-10:00				
KREG	ak	100	.....	Santa Ana, Calif.	P-9:00-11:00				
KXO	al	100	.....	El Centro, Calif.	P-7:00-2:00; 4:00-9:00				
WCNW	ak	100	1A	Brooklyn, N. Y.	E-2:00-6:00; 8:00-10:00				
WFDV	ak	100	.....	Rome, Ga.	C-7:00-10:00; noon-3:00; 6:00-9:00				
WHEF	z	100	P(.25)	Kosciusko, Miss.	C				
WKBV	z	100	Y	Connerville, Ind.	C				
XWKBZ	ak	100	.....	Ludington, Mich.	E-9:00-9:00				
XWKEU	ak	100	.....	LaGrange, Ga.	C-10:00-noon; 3:00-6:00				
XWMBQ	ak	100	1	Brooklyn, N. Y.	E-9:00-11:00; 6:00-8:00				
XWMPG	ak	100	.....	Lapeer, Mich.	E-10:00-2:00; 3:30-6:00; 7:00-10:30				
XWNB	ak	100	.....	Binghamton, N. Y.	E-7:30-10:00				
XWOFI	ae	100	.....	Bristol, Tenn.	E-7:00-2:00; 3:00-8:00				
XWPN	ck	100	(.25)A	Philadelphia, Pa.	E-7:30-10:00				
XWRDW	ae	100	.....	Augusta, Ga.	E				
XWSY	ae	100	A	Rutland, Vt.	E-10:00-1:00; 5:00-9:00				
XWURL	ak	100	1	Woodside, N. Y.	E-8:00-9:00; 11:00-2:00; 10:00-12:30				
XWWSW	ae	100	(.25)	Pittsburgh, Pa.	E-8:00-11:45				

KCYS.
1500
DIAL

INDEX BY LOCATIONS

Frequency in kilocycles in second column. Night power in watts in third column. Network affiliations in fourth column: C Columbia, R National Red, B National Blue, N National Red and Blue. A Amalgamated. F Canadian.

ALABAMA		Hollywood	Storrs	Chicago	
Anniston		KFWB 950 1000	WCAC 600 250	KYW 1020 10000 N	
WAMC 1420 100		KMTR 970 500	DELAWARE		
Birmingham		KNX 1050 25000	Wilmington		
WAPI 1140 5000 N		Long Beach		WDEL 1120 250 A	
WBRC 930 500 C		KFOK 1250 1000	WILM 1420 100	WCRW 1210 100	
WKBC 1310 100		KGER 1360 1000	DISTRICT OF COLUMBIA		
Gadsden		Los Angeles		WENR 870 50000 N	
WJBY 1210 100		KECA 1430 1000 N	Washington	WGES 1360 500	
Huntsville		KFAC 1300 1000	WJWS 1460 10000 C	WGN 720 25000 C	
WBHS 1200 100		KFI 640 50000 N	WMAL 630 250 B	WJD 1130 20000	
Mobile		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	
Montgomery		KGJF 1200 100	FLORIDA		
WSFA 1410 500 C		KHJ 900 1000 C	Clearwater		
Muscle Shoals		KRKD 1120 500	WFLA 620 1000 N	Cicero	
WNRA 1420 100		KTM 780 500	WFLA 620 1000 N	WEHS 1420 100	
Troy		Oakland		WHFC 1420 100	
WHET 1210 100		KLS 1440 250	Gainesville	WKBI 1420 100	
ALASKA		KLX 880 1000	WRUF 830 5000	Decatur	
Anchorage		KROW 930 500	Jacksonville	WJBL 1200 100	
KFQD 600 250		Miami		East Dubuque	
Juneau		Pasadena	WIOD 1300 1000 N	WKBB 1310 100	
KIFH 1310 100		KPPC 1210 50	WQAM 560 1000 C	Harrisburg	
Ketchikan		Sacramento	WDBO 580 250 C	WEBQ 1210 100	
KGBU 900 500		KFBK 1310 100 C	WCOA 1340 500	Joliet	
ARIZONA		San Bernardino	WCOA 1340 500	WCLS 1310 100	
Jerome		KFXM 1210 100	St. Petersburg	LaSalle	
KCRJ 1310 100		San Diego	WSUN 620 1000 N	WJBC 1200 100	
Lowell		KFSD 600 1000 N	Tampa	Peoria	
KSUN 1200 100		KGB 1330 1000 C	WDAE 1220 1000 C	WMBD 1440 500 C	
Phoenix		San Francisco	WMBR 1370 100	Quincy	
KOY 1390 500		KFRK 610 1000 C	GEORGIA		
KTAR 620 500 N		KFWI 930 500	Americus	Rockford	
Prescott		KGCC 1420 100	WENC 1420 100	KFLV 1410 500	
KPJM 1500 100		KGO 790 7500 N	Athens	Rock Island	
Tucson		KJBS 1070 100	WTFI 1450 500	WHBF 1210 100	
KGAR 1370 100		KPO 680 50000 N	Atlanta	Springfield	
KVOA 1260 500		KTAB 560 1000	WGST 890 250 C	WCBS 1210 100	
Yuma		KYA 1230 1000 N	WJTL 1370 100	WTAX 1210 100	
KUMA 1420 100		San Jose	WSB 740 50000 N	Tuscola	
ARKANSAS		KQW 1010 500	Augusta	WDZ 1070 100	
Blytheville		Santa Ana	WRDW 1500 100	Urbana	
KLCCN 1290 100		KREG 1500 100	Columbus	WILL 890 250	
Fayetteville		Santa Barbara	WRBL 1200 100	Zion	
KUOA 1260 1000		KDB 1500 100 C	LaGrange	WCBD 1080 5000	
Fort Smith		Stockton	WKEU 1500 100	INDIANA	
KFPW 1210 100		KGDM 1100 250	Macon	Anderson	
Hot Springs		KWG 1200 100 C	WMAZ 1180 500	WHBU 1210 100	
KTHS 1040 10000 N		COLORADO		Connersville	
Little Rock		Colorado Springs	Rome	WKBV 1500 100	
KARK 890 250		KVOR 1270 1000 C	Savannah	Elkhart	
KGHI 1200 100		Denver	WTOC 1260 500 C	WTRC 1310 50	
KLRA 1390 1000 C		KFEL 920 500	Thomasville	Evansville	
Paragould		KFXF 920 500	WQDX 1210 100	WGBF 630 500	
KBTM 1200 100		KLZ 560 1000 C	HAWAII		
Texarkana		KOA 830 12500 N	Hilo	WGL 1370 100 C	
KCMC 1420 100		KPOF 880 500	KWFV 1210 100	WOWO 1160 10000 C	
CALIFORNIA		Grand Junction	Honolulu	Gary	
Bakersfield		KFXJ 1200 100	KGMB 1320 250 C	WIND 560 1000 C	
KERN 1200 100 C		Greeley	KGU 750 2500 N	Hammond	
Berkeley		KKFA 880 500	IDAHO	WWAE 1200 100	
KRE 1370 100		Lamar	Boise	Indianapolis	
Beverly Hills		KIDW 1420 100	KIDO 1350 1000	WFBM 1230 1000 C	
KMPC 710 500		Pueblo	Idaho Falls	WKBF 1400 500 N	
Burbank		KGHF 1320 250	KID 1320 250	Muncie	
KELW 780 500		Trinidad	Nampa	WLBC 1310 50	
El Centro		KGIW 1420 100	KFXD 1300 100	South Bend	
KXO 1500 100		Yuma	Pocatello	WFAM 1200 100 C	
Eureka		KGEK 1200 100	KSEI 890 250	WSBT 1230 500 C	
KIEM 1210 100		CONNECTICUT		Terre Haute	
Fresno		Bridgeport	Twin Falls	WBOW 1310 100	
KMJ 580 500 C		WICC 600 250 C	KTFI 1240 1000	West Lafayette	
Glendale		Hartford	ILLINOIS	WBA 1400 500	
KIEV 850 100		WDRG 1330 1000 C	Carthage		
		WTIC 1060 50000 R	WCAZ 1070 50		

INDEX BY LOCATIONS

IOWA		Bangor	WRHM 1250 1000	WOW 590 1000 R
Ames		WABI 1200 100	Moorhead	Scottsbluff
X WOI 640 5000		WLBZ 620 500 C	XKGFK 1500 100	XKGGY 1500 100
Boone		Portland	Northfield	York
X KFGQ 1310 100		WCSH 940 1000 R	XWCL 1250 1000	XKGBZ 930 500
Carter Lake		WLEC 1340 250	St. Paul	NEVADA
X KICK 1420 100		Presque Isle	XKSTP 1460 2500 N	Las Vegas
Cedar Rapids		WAGM 1420 100	MISSISSIPPI	KGIX 1420 100
X KWCR 1420 100 B		MARYLAND	Greenville	Reno
Council Bluffs		Baltimore	WKPI 1210 100	XKOH 1380 500 C
X KOIL 1260 1000 B		WBAL 1060 1000 B	Hattiesburg	NEW HAMPSHIRE
Decorah		WCAO 600 250 C	WPEB 1370 100	Manchester
X KGCA 1270 100		WCBM 1370 100 A	Jackson	XWFEA 1430 500 C
X KWLC 1270 100		WFBR 1270 500 R	XWJDX 1270 1000 N	Portsmouth
Des Moines		Cumberland	Kosciusko	WHFB 740 250
X KSO 1370 100 B		WTBO 1420 100	WHEF 1500 100	NEW JERSEY
X WOC 1000 5000 R		Hagerstown	Laurel	Asbury Park
X WHO		WJEJ 1210 100	XWAML 1310 100	WCAP 1280 500 A
Iowa City		MASSACHUSETTS	Meridian	Atlantic City
X WSUI 880 500		Babson Park	XWCOE 880 500	XWPG 1100 5000 C
Marshalltown		WBSO 920 500	Mississippi City	Camden
X KFJB 1200 100		Boston	XWCGM 1210 100	WCAM 1280 500 A
Ottumwa		WAAB 1410 500 C	Tupelo	Jersey City
WIAS 1310 100		WZBZ 990 2500 B	WJEM 990 500	XWAAT 940 300
Shenandoah		WEEI 590 1000 R	Wicksburg	WHOM 1450 250
X KNFN 890 500		WHDH 830 1000 A	XWQBC 1360 500	Newark
X KMA 930 500		WNAC 1230 1000 C	MISSOURI	WAAM 1250 1000
Sioux City		Fall River	Cape Girardeau	WGCP 1250 250
KSCJ 1330 1000 C		WSAR 1450 250 A	KFVS 1210 100	XWOR 710 5000
Waterloo		Lexington	Columbia	Paterson
X WMT 600 500 C		WLEY 1370 100	XKFRU 630 500	WODA 1250 1000
KANSAS		New Bedford	Jefferson City	Red Bank
Abilene		WNBH 1310 100 A	WOS 630 500	XWJBI 1210 100 A
X KFBI 1050 5000		Springfield	Joplin	Trenton
Coffeyville		WBEA 990 1000 B	XWMBH 1420 100	WTNJ 1280 500 A
X KGGF 1010 500		WMAS 1420 100 C	Kansas City	Zarephath
Dodge City		Worcester	KMBC 950 1000 C	XWAWZ 1350 250
X KGNU 1340 250		WORC 1280 500 C	KWKX 1370 100	NEW MEXICO
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X KSAC 580 500		WBCM 1410 500	St. Louis	Roswell
Topeka		Calumet	KFCU 550 500	XKGL 1370 100
X WIBW 580 1000 C		WHDF 1370 100	KMOX 1090 5000 C	NEW YORK
Wichita		Detroit	KSD 550 500 R	Albany
X KFH 1300 1000 C		WJBK 1370 50	XKWK 1350 1000 B	XWOK 1430 500 C
KENTUCKY		WJR 750 10000 B	WEW 760 1000	Auburn
Covington		WMBC 1420 100	WIL 1200 100	XWMOB 1310 100
X WCKY 1490 5000 B		WWJ 920 1000 R	Springfield	Binghamton
Hopkinsville		WXYZ 1420 1000	KGEX 1310 100	WNBFB 1500 100
X WFIW 940 1000		East Lansing	KGIZ 560 500	Brooklyn
Louisville		XWKR 1040 1000	MONTANA	WARD 1400 500
WHAS 820 2500 C		Flint	Billings	WBBC 1400 500
X WLAP 1200 100		WFDL 1310 100	XKGLH 950 1000 N	WBBR 1300 1000
Paducah		Grand Rapids	Butte	WCNW 1500 100 A
WPAD 1420 100		WASH 1270 500	KGIR 1360 500 N	WFOX 1400 500
LOUISIANA		WOOD 1270 500	Great Falls	WLTH 1400 500
Baton Rouge		Ironwood	XKFBB 1280 1000	XWMBQ 1500 100
WJBO 1420 100		XWJMS 1420 100	Kalispell	Buffalo
Monroe		Jackson	KGZ 1310 100	WBEN 900 1000 R
X KMLB 1200 100		WIBM 1370 100	Missoula	WEBR 1310 100
New Orleans		Kalamazoo	XKGV 1200 100	WGR 550 1000 C
WBEX 1200 100		Lapeer	Wolf Point	XWKBW 1480 5000 C
WDSU 1250 1000 C		WMPC 1500 100	KGX 1310 100	XWSVS 1370 50
X WJBW 1200 100		Ludington	NEBRASKA	Canton
X WSMB 1320 500 N		XKBEZ 1500 100	Clay Center	WCAD 1220 500
WWL 850 10000		Marquette	Kearney	Chester
Shreveport		WBEW 1310 100	KGFB 1310 100	XWGNV 1210 100
KRMD 1310 100		Royal Oak	Lincoln	Elmira
KTBS 1450 1000 N		WEXL 1310 50	XKLAB 770 5000 C	XWESG 1040 1000
KWEA 1210 100		MINNESOTA	KFOR 1210 100	Freeport
X KWKH 850 10000		Fergus Falls	Norfolk	XWGBB 1210 100
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Augusta		Minneapolis	North Platte	XWGLC 1370 100 C
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 X WEAQ 660 50000 R
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Enid
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 X KFJR 1300 500
 X KGW 620 1000 N
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 WSAN 1440 250
Altoona
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Erie
 X WLBW 1260 500 C
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 WIBG 930 25
Grove City
 X WSAJ 1310 100
Harrisburg
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 WHP 1430 500 C

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 X WJAC 1310 100
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 WKJC 1200 100
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Dallas
 X KRLD 1040 10000 C
 X WFAA 800 50000 N
 X WRR 1280 500 C
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 X KFPL 1310 100
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 X KTSM 1310 100
 X WDAH 1310 100
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 X KTSA 1290 1000 C
 X WOAI 1190 50000 N
Tyler
 X KGKB 1500 100
Waco
 X WACO 1420 100 C
Wichita Falls
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UTAH
Ogden
 KLO 1400 500 C

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D. F.		PUEBLA		Cardenas		CMCY 1320 500	
Mexico City		Puebla		CMGE 1375 30		CMDE 925 150	
XEAD	875 250	XETH	860 100	Ciego de Avila		CMK 730 5000	
XEAI	1090 100	QUERETARO		CMJH 1150 50		CMQ 630 500	
XEB	1030 10000	Queretaro		CMJI 1280 45		CMW 590 1400	
XEFA	1250 500	XEFS	1000 40	CMJO 1010 50		CMX 890 1000	
XEFG	1085 500	SAN LUIS POTOSI		Cienfuegos		Matanzas	
XEFZ	1370 100	San Luis Potosi		CMHJ 1125 60		CMBG 1205 30	
XEG	1075 500	XEAC	1295 100	CMHL 1290 20		MGC 820 30	
XEX	990 100	TAMAULIPAS		Colon		CMGF 977 100	
XEN	711 1000	Nuevo Laredo		CMGA 834 100		CMGH 1040 15	
XEO	940 5000	XEAB	1450 7.5	Cruces		Moron	
XEP	780 500	XEFE	1000 100	CMHK 1225 50		CMJP 1360 75	
XEQ	1330 500	XENT	1115 150000	Guantanamo		Pinar del Rio	
XETA	1180 250	Reynosa		CMKJ 1300 20		CMAB 1249 20	
XETR	610 1000	XEXAW	965 10000	Havana		Santa Clara	
XETW	830 500	Tampico		CMAF 680 1000		CMHI 1037 250	
XEW	910 5000	XEFW	1280 70	CMBC 1270 150		Santiago	
XEX	1210 500	XES	1020 250	CMBD 965 250		CMKC 1034 150	
XEYZ	780 10000	VERACRUZ		CMBG 1070 225		DOMINICAN	
XFG	638 2000	Jalapa		CMBJ 1140 50J		REPUBLIC	
XFO	940 5000	XFB	1290 1000	CMBK 1445 15		San Pedro de	
XFX	840 500	Veracruz		CMBL 1445 200		Marcos	
Toluca		XEXU	1010 100	CMBN 1185 150		HIH 1395 15	
XEC	1000 50	YUCATAN		CMBS 780 200		Santo Domingo	
HIDALGO		Merida		CMBW 1140 600		HIJ 1195 15	
Pachuca		XEFC	1050 100	CMBY 1230 250		HIJK 1180 15000	
XETU	890 100	XEY	546.8 10	CMCZ 1010 150		HIX 580 1500	
JALISCO		XEZ	630 500	CMC 840 500		HAITI	
Guadalajara		WEST INDIES		CMCA 1230 150		Port-au-Prince	
XEA	1000 250	CUBA		CMCB 1070 150		HHK 920 1000	
XED	1155 500	Caibarien		CMCD 925 500		SOUTH	
MICHOACAN		CMHD	950 500	CMCF 890 250		AMERICA	
Morelia		Camaguey		CMCH 1410 50		COLOMBIA	
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NUEVO LEON		CMJE	1175 50	CMCM 1410 15		HJN 681 500	
Monterrey		CMJF	930 200	CMCN 1375 250		VENEZUELA	
XEFB	1315 100	CMJG	1050 50	CMCP 1270 150		Caracas	
XEFJ	1000 100	XCMJK	790 500	CMCQ 780 1000		YV1BC 960 5000	
XEH	1132 250	CMJL	960 50	CMCR 1375 150		YV2BC 882 100	
XET	690 500	CMJN	1240 50	CMCU 1100 500		YV3BC 1200 1000	
				CMCW 965 150			

He COULDN'T Believe It

(Continued from page 39)

and after listening to it for a little while I found it to be 2YA, Wellington, New Zealand. Boy, did my chest swell up then?

I have a ten-tube RCA-Victor, model R-50, and now I can get 2YA whenever I am able to tune in KTM on 780 at good volume. And I am able to tune KTM in five out of every six mornings at about 5:00 a. m., EST. —W. T. R. Morris, Jr., 3219 Garland Ave., Richmond, Va.

"In looking over the May RADEX, I noted the usual letters of skeptics of trans-Pacific reception," comments C. H. Skatzes, 45 Flax St., Delaware, Ohio. "I have received 4QG, 2YA, 3LO, as well as HJN and YV1BC

since the first of this year. Almost any good night between 4:00 and 6:00 a. m. EST., 4QG can be heard, although it has to be an exceptionally good night to receive the program without quite a bit of noise. On March 5, the stations 4QG, 2YA, 3LO and one on 630 unidentified, were coming in with exceptional clarity and volume and anyone listening on that morning should have been able to receive them easily. 3LO announced his call at 5 a. m. loud and clear enough to raise the roof. Anyone hearing a station playing Columbia recordings between 4:00 and 6:00 a. m., or broadcasting church services, is advised to stick to the station and see if it isn't one of the Aussies or Zedders. HJN and YV1BC are received more easily than the west-coast stations when they present special programs."

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CFAC	690 500	Calgary, Alta.
Calgary Herald.		
CFBO	1210 100	St. John, N. B.
C. A. Munro, Ltd.		
CFCF	600 500	Montreal, Que.
Canadian Marconi Co.		
CFCH	930 100	North Bay, Ont.
Northern Broadcasting Co., Ltd.		
CFCN	1030 10000	Calgary, Alta.
W. W. Grant & H. G. Love.		
CFCO	1210 100	Chatham, Ont.
John Beardall.		
CFCT	1430 50	Victoria, B. C.
Victoria Broadcasting Assn.		
CFCY	630 500	Charlottetown, P. E. I.
Island Radio Broadcasting Co., Ltd.		
CFJC	1310 100	Kamloops, B. C.
Review Publishing Co., Ltd.		
CFLC	930 100	Prescott, Ont.
Radio Assn. of Prescott.		
CFNB	1030 500	Fredericton, N. B.
James S. Neill & Sons, Ltd.		
CFPL	730 100	London, Ont.
Free Press & Printing Co., Ltd.		
CFQC	890 500	Saskatoon, Sask.
Electric Shop, Ltd.		
CFRB	690 10000	Toronto, Ont.
Canadian Radio Corp., Ltd.		
CFRC	915 100	Kingston, Ont.
Queens University.		
CHAB	1200 25	Moose Jaw, Sask.
Moose Jaw Radio Assn.		
CHCK	1310 100	Charlottetown, P. E. I.
J. A. Gesner.		
CHGS	1120 100	Summerside, P. E. I.
R. T. Holman, Ltd.		
CHLP	1120 100	Montreal, Que.
La Patrie Publishing Co., Ltd.		
CHMA	580 250	Edmonton, Alta.
Christian and Missionary Alliance.		
CHML	1010 50	Hamilton, Ont.
Maple Leaf Radio Co., Ltd.		
CHNC	1210 100	New Carlisle, Que.
Dr. Charles Houde.		
CHNS	1050 500	Halifax, N. S.
Maritime Broadcasting Co., Ltd.		
CHRC	845 100	Quebec, Que.
CHRC, Ltd.		
CHWC	1010 500	Regina, Sask.
R. H. Williams & Sons, Ltd.		
CHWK	780 100	Chilliwack, B. C.
Chilliwack Broadcasting Co., Ltd.		
CJCA	730 500	Edmonton, Alta.
Edmonton Journal, Ltd.		
CJCB	880 50	Sydney, N. S.
Nathanson's Radio Headquarters.		
CJJC	690 500	Calgary, Alta.
Albertan Publishing Co., Ltd.		
CJCS	780 500	Sudbury, Ont.
George McLeod Cootes		
CJGX	630 500	Yorkton, Sask.
Winnipeg Grain Exchange.		
CJOC	840 100	Lethbridge, Alta.
H. R. Carson, Ltd.		
CJOR	1210 500	Vancouver, B. C.
G. C. Chandler.		
CJRM	880 500	Moose Jaw, Sask.
James Richardson & Sons, Ltd.		
CJRW	880 500	Fleming, Sask.
James Richardson & Sons, Ltd.		
CKAC	730 5000	Montreal, Que.
LaPresse Publishing Co., Ltd.		

CKCD	1010 100	Vancouver, B. C.
Vancouver Daily Province.		
CKCH	1210 100	Hull, Que.
Dr. J. L. Chabot.		
CKCK	1010 500	Regina, Sask.
Leader-Post, Ltd.		
CKCL	580 100	Toronto, Ont.
Dominion Battery Co., Ltd.		
CKCO	1010 100	Ottawa, Ont.
Dr. G. M. Geldert.		
CKCR	645 100	Kitchener, Ont.
William C. Mitchell and G. Liddle.		
CKCV	1310 50	Quebec, Que.
Vandry, Inc.		
CKFC	1410 50	Vancouver, B. C.
Radio Service Engineers, Ltd.		
CKIC	1010 50	Wolfville, N. S.
Acadia University.		
CKLW	540 5000	Windsor, Ont.
Western Ontario Broadcasting Co., Ltd.		
CKMC	1210 100	Cobalt, Ont.
R. L. MacAdam.		
CKMO	1410 100	Vancouver, B. C.
Sprott-Shaw Radio Co.		
CKNC	1030 100	Toronto, Ont.
Canadian National Carbon Co., Ltd.		
CKOC	1120 500	Hamilton, Ont.
Wentworth Radio Broadcasting Co., Ltd.		
CKOV	1200 100	Kelowna, B. C.
Okanagan Broadcasters, Ltd., Box 243.		
CKPC	930 100	Preston, Ont.
Cyrus Dolph.		
CKPR	780 100	Fort William, Ont.
Dougall Motor Co., Ltd.		
CKTB	1200 100	St. Catharines, Ont.
E. T. Sandell.		
CKUA	580 500	Edmonton, Alta.
University of Alberta.		
CKWX	1010 100	Vancouver, B. C.
Western Broadcasting Co., Ltd.		
CKX	930 500	Brandon, Man.
Manitoba Telephone System.		
CKY	910 5000	Winnipeg, Man.
Manitoba Telephone System.		
CMAB	1249 20	Pinar del Rio, Cuba.
Jose Silveira, Marti No. 101.		
CMAF	680 1000	Havana, Cuba.
International Broadcasting Co., Miramar.		
CMBC	1270 150	Havana, Cuba.
Domingo Fernandez, Maximo Gomez No. 139.		
CMBD	965 250	Havana, Cuba.
Luis Perez Garcia, Enamorados y Flores.		
CMBG	1070 225	Havana, Cuba.
John L. Stowers, Hospital No. 100		
CMBJ	1140 500	Havana, Cuba.
Emilio Perera, Consulado y Virtudes.		
CMBK	1445 15	Havana, Cuba.
Alberto Alvarez, Paula y Oficios.		
CMBL	1445 200	Havana, Cuba.
Julio C. Hidalgo, Vedado.		
CMBN	1185 150	Havana, Cuba.
G. de Sequeira, Agrimonte No. 32		
CMB5	780 200	Havana, Cuba.
Enrique Artealejo, Calzada y H. St.		
CMBW	1140 600	Havana, Cuba.
Alvarez, Moris y Cia, Obrapia No. 13.		
CMBY	1230 250	Havana, Cuba.
Callejas-Estefani, Principe No. 33.		
CMBZ	1010 150	Havana, Cuba.
Manuel y G. Salas, San Rafael No. 14.		
CMC	840 500	Havana, Cuba.
Radio Corp. of Cuba.		

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CMCA 1230 150 Havana, Cuba. Manuel Cruz, Ave. de Italia No. 102.
CMCB 1070 150 Havana, Cuba. Metropolitan-Radio de Cuba.
CMCD 925 500 Havana, Cuba. Angel Berternaty.
CMCF 890 250 Havana, Cuba. Raoul Karman.
CMCH 1410 50 Havana, Cuba. Wifredo y Humberto Fontanals Sanchez.
CMCJ 1185 500 Havana, Cuba. Rafael Rodriguez, Estevez No. 4.
CMGM 1410 15 Havana, Cuba. Aurelio Balino, Belas Cosin No. 639.
CMCN 1875 250 Havana, Cuba. Antonio Ginard, Reina y Ave. Buen Retiroe
CMCP 1270 150 Havana, Cuba. Jose A. Yaniz
CMCQ 780 1000 Havana, Cuba. Andres Martinez, Vista Alegre No. 80.
CMCR 1375 150 Havana, Cuba. Aurelio Hernandez.
CMCU 1100 500 Havana, Cuba. Jorge Garcia Serra.
CMCW 965 150 Havana, Cuba. Vilarino y Cervantes.
CMCY 1325 500 Havana, Cuba. Manuel D. Autran, Ave. de La Pdt s.215.
CMDE 925 150 Havana, Cuba. Radio Aerial Ad.
CMGA 834 100 Colon, Cuba. L. Valdes Figueroa, Marti No. 19.
CMGB 1205 30 Matanzas, Cuba. Jose Anorga, Magdalena No. 1.
CMGC 820 30 Matanzas, Cuba. Oscar S. Mechoso, Independencia No. 56.
CMGE 1375 30 Cardenas, Cuba. Genaro Sebatier, Cespedes No. 180.
CMGF 977 100 Matanzas, Cuba. Bernabe R. de la Torre.
CMGH 1040 15 Matanzas, Cuba. Octavio y Julio Alvarez.
CMHD 950 500 Caibarien, Cuba. Manuel Alvarez, M. Escobar 17.
CMHI 1037 250 Santa Clara, Cuba. Lavis y Paz.
CMHJ 1125 60 Cienfuegos, Cuba. Victorino Lopez Hontanon.
CMHK 1225 50 Cruces, Cuba. Virgilio Villaneuva Fernandez.
CMHL 1290 20 Cienfuegos, Cuba. Oscar Zayas, San Carlos 143.
CMJC 1382 150 Camaguey, Cuba. Feliciano Isaac, Cisneros y G. Gomez.
CMJE 1175 50 Camaguey, Cuba. Manuel Fernandez, Plaza de Maceo.
CMJF 930 200 Camaguey, Cuba. John L. Stowers, Hotel Plaza.
CMJG 1050 50 Camaguey, Cuba. Jose Antonio Lefran, Martires 133.
CMJH 1150 50 Ciego de Avila, Cuba. Luis Marauri Mendosa.
CMJI 1280 45 Ciego de Avila, Cuba. Gilberto Gessa Lopez, Independencia 95.
CMJK 790 500 Camaguey, Cuba. Compania Cubana Nacional de Radio S. A.
CMJL 960 50 Camaguey, Cuba. Enrique Artime, Cuba No. 27.
CMJN 1240 50 Camaguey, Cuba. Ernesto de Ugarriza, Martires 11.
CMJO 1010 50 Ciego de Avila, Cuba. Jose M. Rey, C. Central & Maceo.

CMJP 1360 75 Moron, Cuba. Cesar Canall, Callejas No. 28.
CMK 730 5000 Havana, Cuba. National Broadcasting Co. of Cuba.
CMKC 1034 150 Santiago, Cuba. Pinol Batlle y Co.
CMKJ 1300 20 Guatanamo, Cuba. Luis Morlote, East Giro 11.
CMQ 630 500 Havana, Cuba. Jose Fernandez, 25 Numero 445.
CMW 590 1400 Havana, Cuba. Troncoso y Gil, Paseo de Marti 103.
CMX 890 1000 Havana, Cuba. Casa "Lavin," Ave. de la Republica 99A.
CRCA 580 500 Moncton, N. B. Canadian Radio Broadcasting Commission.
CRCM 910 5000 LaPrairie, Que. Canadian Radio Broadcasting Commission
CRCO 880 500 Ottawa, Ont. Canadian Radio Broadcasting Commission
CRCS 1500 100 Chicoutimi, Que. Canadian Radio Broadcasting Commission.
CRCT 960 5000 Toronto, Ont. Canadian Radio Broadcasting Commission.
CRCV 1100 500 Vancouver, B. C. Canadian Radio Broadcasting Commission.
HHK 920 1000 Port-au-Prince, Haiti. Haitian Government.
HIH 1395 15 San Pedro de M., D. R. Domingo Dominguez
HIJ 1195 15 Santo Domingo, D. R. Luto Baez, Hostos 34
HIJK 1180 15000 Santo Domingo, D. R.
HIX 580 1500 Santo Domingo, D. R. J. R. Saladin, Director General
HJN 681 500 Bogota, Colombia Government of Colombia, National Library.
KABC 1420 100 San Antonio, Texas. Alamo Broadcasting Co., Inc.
KALE 1300 500 Portland, Ore. Kale, Inc., New Heathman Hotel
KARK 890 250 Little Rock, Ark. Arkansas Radio & Equipment Co.
KASA 1210 100 Elk City, Okla. E. M. Woody, Casa Grande Hotel.
KBPS 1420 100 Portland, Ore. Benson Polytechnic School
KBTM 1200 100 Paragould, Ark. Jay P. Beard.
KCMC 1420 100 Texarkana, Ark. M. P. Mims, Box 865.
KCRC 1370 100 Enid, Okla. Enid Radiophone Co.
KCRJ 1310 100 Jerome, Ariz. Chas. C. Robinson, Drawer D.
KDB 1500 100 Santa Barbara, Calif. Santa Barbara Broadcasters, Ltd.
KDFN 1440 500 Casper, Wyo. Donald Lewis Hathaway.
KDKA 980 50000 Pittsburgh, Pa. Westinghouse Electric & Mfg. Co.
KDLR 1210 100 Devils Lake, N. D. KDLR, Inc., 1025 3rd Street.
KDYL 1290 1000 Salt Lake City, Utah. Intermountain Broadcasting Corp.
KECA 1430 1000 Los-Angeles, Calif. Earle C. Anthony, Inc.
KELW 780 500 Burbank, Calif. Magnolia Park, Ltd., 3702 Magnolia
KERN 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.
Buttrely Broadcast, Inc.		
KFBI	1050 5000	Abilene, Kans.
Farmers & Bankers Life Ins. Co.		
KFBK	1310 100	Sacramento, Calif.
James McClatchy Publishing Co.		
KFBL	1370 50	Everett, Wash.
Leese Bros., 2814 Rucker Ave.		
KFDM	560 500	Beaumont, Texas.
Sabine Broadcasting Co.		
KFDY	550 500	Brookings, S. D.
South Dakota State College.		
KFEL	920 500	Denver, Colo.
Eugene P. O'Fallon, Inc.		
KFEQ	680 2500	St. Joseph, Mo.
Seroggin & 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	600 250	Anchorage, Alaska
Anchorage Radio Club, Inc.		
KFRC	610 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. Krebsbach.		
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	1380 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	1580 100	Corpus Christi, Texas.
Eagle Broadcasting Co., Inc.		
KCFJ	1200 100	Los Angeles, Calif.
Ben S. McGlashan, 1417 S. Figueroa.		
KGFK	1600 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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	KGGG 1420 100 San Francisco, Calif. Golden Gate Broadcasting Co.		KLCN 1290 100 Blytheville, Ark. C. L. Lintzenich, Main and Division St.
	KGGF 1010 500 Coffeyville, Kans. Hugh J. Powell and Stanley Plata.		KLO 1400 500 Ogden, Utah. Interstate Broadcasting Co.
	KQQM 1230 250 Albuquerque, N. M. New Mexico Broadcasting Co.		KLPM 1240 250 Minot, N. D. John B. Cooley.
	KGHF 1320 250 Pueblo, Colo. C. P. Ritchie & Geo. J. Ikelman		KLRA 1390 1000 Little Rock, Ark. Arkansas Broadcasting Co.
	KGHI 1200 100 Little Rock, Ark. Lloyd Judd Co., Marion Hotel.		KLS 1440 250 Oakland, Calif. Warner Bros., 2291 Telegraph Ave.
	KGHL 950 1000 Billings, Mont. Northwestern Auto Supply Co.		KLUF 1370 100 Galveston, Texas. Geo. R. Clough, 3327 Ave. F.
	KGIR 1360 500 Butte, Mont. KGIR, Inc., 121 W. Broadway.		KLX 890 1000 Oakland, Calif. Tribune Building Co.
	KGIW 1420 100 Trinidad, Colo. Leonard E. Wilson, 326 N. Commercial		KLZ 560 1000 Denver, Colo. Reynolds Radio Co., Inc.
	KGIX 1420 100 Las Vegas, Nev. J. M. Heaton, Box 656.		KMA 930 500 Shenandoah, Iowa. Earl E. May Seed & Nursery Co.
	KGIZ 560 500 Springfield, Mo. Grant City Park Corp.		KMAC 1370 100 San Antonio, Texas. W. W. McAllister, Blue Bonnet Hotel.
	KGKB 1500 100 Tyler, Texas. East Texas Broadcasting Co.		KMBC 950 1000 Kansas City, Mo. Midland Broadcasting Co.
	KGKL 1370 100 San Angelo, Texas. KGKL, Inc., St. Angelus Hotel.		KMED 1310 100 Medford, Ore. Mrs. W. J. Virgin, Sparta Bldg.
	KGKO 570 250 Wichita Falls, Texas. Wichita Falls Broadcasting Co.		KMJ 580 500 Fresno, Calif. James McClatchy Co.
	KGKY 1500 100 Scottsbluff, Neb. Hilliard Co., Inc., 1517½ Broadway.		KMLB 1200 100 Monroe, La. Liners Broadcasting Station, Inc.
	KGMB 1320 250 Honolulu, T. H. Honolulu Broadcasting Co., 119 Merchant St.		KMMJ 740 1000 Clay Center, Neb. The M. M. Johnson Co.
	KGNF 1430 500 North Platte, Neb. Great Plains Broadcasting Co.		KMO 1390 250 Tacoma, Wash. KMO, Inc., Hotel Winthrop.
	KGNO 1340 250 Dodge City, Kans. KGNO Broadcasting Station		KMOX 1090 50000 St. Louis, Mo. The Voice of St. Louis, Inc.
	KGO 790 7500 San Francisco, Calif. National Broadcasting Co., Inc.		KMPC 710 590 Beverly Hills, Calif. Beverly Hills Broadcasting Corp.
	KGRS 1410 1000 Amarillo, Texas. E. B. Gish, Bellaire Park.		KMTR 570 500 Hollywood, Calif. KMTR Radio Corp., 915 N. Formosa Ave.
	KGU 750 2500 Honolulu, T. H. Advertiser Publishing Co., Ltd.		KNOW 1500 100 Austin, Texas. Southwest Broadcasting Co.
	KQVO 1200 100 Missoula, Mont. Mosby, Inc., 240 N. Higgins.		KNX 1050 25000 Hollywood, Calif. Western Broadcast Co., Inc.
X	KQW 620 1000 Portland, Ore. Oregonian Publishing Co.		KOA 830 12,500 Denver, Colo. General Electric Co., 1370 Krameria St.
	KQY 1210 100 Olympia, Wash. QY, Inc., 11th and Capitol Way.		KOAC 550 1900 Corvallis, Ore. Oregon State Agricultural College.
	KHJ 900 1000 Los Angeles, Calif. Don Lee Broadcasting System.		KOB 1180 10000 Albuquerque, N. M. Albuquerque Journal, Box 667.
	KHQ 590 1000 Spokane, Wash. Louis Wasmer, Inc.		KOCW 1400 250 Tulsa, Okla. J. T. Griffin.
	KICA 1370 100 Clovis, N. M. Southwest Broadcasting Co.		KOH 1380 500 Reno, Nev. The Bee, Inc.
	KICK 1420 100 Carter Lake, Iowa. Red Oak Radio Corp.		KOIL 1250 1000 Council Bluffs, Iowa. Mons Motor Oil Co.
	KID 1320 250 Idaho Falls, Idaho. KID Broadcasting Co., Inc.		KOIN 940 1000 Portland, Ore. KOIN, Inc., New Heathman Hotel.
	KIDO 1350 1000 Boise, Idaho. C. G. Phillips & Frank L. Hill.		KOL 1270 1000 Seattle, Wash. Seattle Broadcasting Co.
	KIDW 1420 100 Lamar, Colo. Lamar Broadcasting Co., Box 683		KOMA 1480 5000 Oklahoma City, Okla. National Radio Manufacturing Co.
	KIEM 1210 100 Eureka, Calif. Harold H. Hanseth, Vance Hotel.		KOMO 920 1000 Seattle, Wash. Fishers Blend Station, Inc.
	KIEV 850 100 Glendale, Calif. Cannon System, Ltd., Glendale Hotel.		KONO 1370 100 San Antonio, Texas. M ion Broadcasting Co., St. Anthony Hotel.
	KIFH 1310 100 Juneau, Alaska Juneau Broadcasting Co.		KOOS 1370 100 Marshfield, Ore. H. H. Hanseth, Hall Bldg.
	KIT 1310 100 Yakima, Wash. Valley Broadcasters, Inc.		KORE 1420 100 Eugene, Ore. Frank L. Hill and Curtis G. Philipps.
	KJBS 1070 100 San Francisco, Calif. Julius Brunton & Sons Co.		KOY 1390 500 Phoenix, Ariz. Nielsen Radio & Sporting Goods Co.
	KJR 970 5000 Seattle, Wash. Fishers Blend Station, Inc.		KPCB 650 100 Seattle, Wash. Queen City Broadcasting Co.

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KPJM 1500 100 Prescott, Ariz.
Frank Mauthe, Box 852

KPO 680 50000 San Francisco, Calif.
National Broadcasting Co., Inc.

KPOF 880 500 Denver, Colo.
Pillar Of Fire, 1845 Champa St.

KPPC 1210 50 Pasadena, Calif.
Pasadena Presbyterian Church.

KPQ 1500 100 Wenatchee, Wash.
Westcoast Broadcasting Co.

KPRC 920 1000 Houston, Texas.
Houston Printing Co.

KQV 1380 500 Pittsburgh, Pa.
KQV Broadcasting Co., Investment Bldg.

KQW 1010 500 San Jose, Calif.
Pacific Agricultural Foundation, Ltd.

KRE 1370 100 Berkeley, Calif.
First Congregational Church.

KREG 1500 100 Santa Ana, Calif.
The Voice of the Orange Empire, Inc.

KRGV 1260 500 Harlingen, Texas.
KRGV, Inc.

KRKD 1120 500 Los Angeles, Calif.
Fireside Broadcasting Corp.

KRLD 1040 10000 Dallas, Texas.
KRLD Radio Corp., Adolphus Hotel.

KRMD 1310 100 Shreveport, La.
Radio Station KRMD, Inc.

KROW 930 500 Oakland, Calif.
Educational Broadcasting Corp.

KRSC 1120 100 Seattle, Wash.
Radio Sales Corp., Washington Athletic Club.

KSAC 580 500 Manhattan, Kans.
State College of Agriculture.

KSCJ 1330 1000 Sioux City, Iowa.
Perkins Bros. Co., 415 Douglas St.

KSD 550 500 St. Louis, Mo.
Pulitzer Publishing Co.

KSEI 890 250 Pocatello, Idaho.
Radio Service Corp., 141 S. 6th Ave.

KSJL 1130 50000 Salt Lake City, Utah.
Radio Service Corp. of Utah.

KSO 1370 100 Des Moines, Iowa.
Des Moines Register & Tribune.

KS00 1110 1000 Sioux Falls, S. D.
Joe. Henkin, 1613 S. Duluth Ave.

KSTP 1460 25000 St. Paul, Minn.
National Battery Broadcasting Co.

KSUN 1200 100 Lowell, Ariz.
Copper Electrical Co.

KTAB 560 1000 San Francisco, Calif.
Associated Broadcasters, Inc.

KTAR 620 500 Phoenix, Ariz.
KTAR Broadcasting Co.

KTAT 1240 1000 Fort Worth, Texas.
Southwest Broadcasting Co.

KTBS 1450 1000 Shreveport, La.
Tri-State Broadcasting System.

KTFI 1240 1000 Twin Falls, Idaho.
Radio Broadcasting Corp.

KTHS 1040 10000 Hot Springs, Ark.
Chamber of Commerce.

KTM 780 500 Los Angeles, Calif.
Pickwick Broadcasting Corp., Ltd.

KTRH 1120 1000 Houston, Texas.
KTRH Broadcasting Co., Rice Hotel.

KTSA 1290 1000 San Antonio, Texas.
Southwest Broadcasting Co.

KTSM 1310 100 El Paso, Texas.
Tri-State Broadcasting Co., Inc.

KTW 1220 1000 Seattle, Wash.
First Presbyterian Church.

KUJ 1370 100 Walla Walla, Wash.
KUJ, Inc., Marcus Whitman Hotel.

KUMA 1420 100 Yuma, Ariz.
Dr. A. H. Schermann, Box 267.

KUOA 1260 1000 Fayetteville, Ark.
KUOA, Inc., Washington Hotel.

KUSD 890 500 Vermillion, S. D.
University of South Dakota.

KVI 570 500 Tacoma, Wash.
Puget Sound Broadcasting Co., Tacoma Hotel.

KVL 1370 100 Seattle, Wash.
KVL, Inc., 5th and Virginia St.

KVOA 1260 500 Tucson, Ariz.
Arizona Broadcasting Co., Inc.

KVOO 1140 5000 Tulsa, Okla.
Southwestern Sales Corp.

KVOR 1270 1000 Colorado Springs, Colo.
S. H. Patterson

KVOS 1200 100 Bellingham, Wash.
KVOS, Inc., Bellingham Hotel.

KWCR 1420 100 Cedar Rapids, Iowa.
Cedar Rapids Broadcast Co.

KWEA 1210 100 Shreveport, La.
Hello World Broadcasting Corp.

KWFF 1210 100 Hilo, Hawaii
Hilo Broadcasting Co., Ltd.

KWJ 1200 100 Stockton, Calif.
McClatchy Newspapers, Inc.

KWJJ 1060 500 Portland, Ore.
KWJJ Broadcast Co., Inc., 328 Salmon St.

KWK 1350 1000 St. Louis, Mo.
Thomas Patrick, Inc., Hotel Chase.

KWKC 1370 100 Kansas City, Mo.
Wilson Duncan Broadcasting Co.

KWKH 850 10000 Shreveport, La.
International Broadcasting Corp.

KWLC 1270 100 Decorah, Iowa.
Luther College.

KWSC 1220 1000 Pullman, Wash.
State College of Washington.

KWWG 1260 500 Brownsville, Texas.
Frank P. Jackson.

KXA 760 250 Seattle, Wash.
American Radio Tel. Co., 218 Bigelow Bldg.

KXL 1420 100 Portland, Ore.
KXL Broadcasters, 269 Pine St.

KXO 1500 100 El Centro, Calif.
E. R. Irey and F. M. Bowles.

KXRO 1310 100 Aberdeen, Wash.
KXRO, Inc., Hotel Morek.

KXYZ 1440 250 Houston, Texas.
Harris County Broadcast Co.

KYA 1230 1000 San Francisco, Calif.
Pacific Broadcasting Corp.

KYW 1020 10000 Chicago, Ill.
Westinghouse Elec. & Mfg. Co.

KZRM 618.5 50000 Manila, P. I.
Erlanger and Galingler, Inc. (KZEG)

NAA 690 1000 Arlington, Va.
United States Navy.

RUS 664 500 San Salvador, E. S.
Republic of El Salvador.

TGW 1350 500 Guatemala, Gua.
Gobierno de Guatemala.

TGX 1380 75 Guatemala City

TIGR 912 75 San Jose, C. R.
Government of Costa Rica.

TIEA 833 7.5 San Jose, C. R.

TIEP 1450 7.5 San Jose, C. R.

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	TIFB	714	30	San Jose, C. R.		WBAK	1430	1000	Harrisburg, Pa. Commonwealth of Pennsylvania.
	TIFS	1441	7.5	Cartago, C. R.		WBAL	1060	10000	Baltimore, Md. Consolidated Gas, Elec. Light & Power Co.
	TIGA	1014	30	Cartago, C. R.		WBAP	800	50000	Fort Worth, Texas. Carter Publications, Inc.
	TIGP	666	75	San Jose, C. R.		WBAX	1210	100	Wilkes-Barre, Pa. John H. Stenger, Jr., 70 S. Main St.
	TIRCA	1100	500	San Jose, C. R. Perry Girton, Apt. 225.		WBBC	1400	500	Brooklyn, N. Y. Brooklyn Broadcasting Corp.
	TISO	550	250	San Jose, C. R. P. F. Saborio, Apt. 1354		WBBL	1210	100	Richmond, Va. Grace Covenant Presbyterian Church.
	TITV	999	7.5	San Jose, C. R.		WBBM	770	25000	Chicago, Ill. WBBM Broadcasting Corp., Wrigley Bldg.
	TIVL	869	30	San Jose, C. R.		WBBR	1300	1000	Brooklyn, N. Y. Peoples Pulpit Assn.
	TIXA	614	7.5	San Jose, C. R. 1		WBBX	1200	100	New Orleans, La. Samuel D. Reeks, Marbero Hotel.
	VAS	685	2000	Glace Bay, N. S. Canadian Marooni Co., Ltd.		WBBZ	1200	100	Ponca City, Okla. C. L. Carrell.
	VOAC	800	40	St. John's, Nfld.		WBCM	1410	500	Bay City, Mich. James E. Davidson, Hotel Wenonah.
	VOAS	810	100	St. John's, N. F. Ayre & Sons, Ltd.		WBEN	900	1000	Buffalo, N. Y. WBEN, Inc. (Buffalo Evening News.)
	VOGY	1400	75	St. John's, N. F. Newfoundland Broadcasting Co.		WBOE	1310	100	Marquette, Mich. Lake Superior Broadcasting Co., Inc.
	VOKW	1005	30	St. John's, N. F. Cyril L. Parkins.		WBHS	1200	100	Huntsville, Ala. Radio Station WBHS, Inc.
	VONF	1195	400	St. John's, N. F. Dominion Broadcasting Co., Ltd., Box 1355.		WBIG	1440	500	Greensboro, N. C. North Carolina Broadcasting Co., Inc.
	VOWR	900	500	St. John's, N. F. Wesley United Church, Box 157.		WBNX	1350	250	New York, N. Y. Standard Cahill Co., Inc.
	WAAB	1410	500	Boston, Mass. Bay State Broadcasting Corp., 1 Winter Pl.		WBOQ	860	50000	New York, N. Y. Atlantic Broadcasting Corp.
	WAAF	920	500	Chicago, Ill. Chicago Daily Drivers Journal.		WBOW	1310	100	Terre Haute, Ind. Banks of Wabaab, Inc., 24½ S. 6th.
	WAAM	1250	1000	Newark, N. J. WODAAM Corp., 1060 Broad St.		WBRC	930	500	Birmingham, Ala. Birmingham Broadcasting Co., Inc.
	WAAT	940	300	Jersey City, N. J. Bremer Broadcasting Corp., 50 Journal Sq.		WBRE	1310	100	Wilkes-Barre, Pa. Louis G. Baltimore, 16 N. Main.
	WAAW	680	500	Omaha, Neb. Omaha Grain Exchange.		WBSO	920	500	Babson Park, Mass. Broadcasting Service Organization, Inc.
	WABC	860	500000	New York, N. Y. Atlantic Broadcasting Corp.		WBT	1080	25000	Charlotte, N. C. Station WBT, Inc., Wilder Bldg.
	WABI	1200	100	Bangor, Maine. First Universalist Society.		WBTM	1370	100	Danville, Va. Piedmont Broadcasting Corp.
	WACO	1420	100	Waco, Texas. Southwest Broadcasting Co.		WBZ	990	25000	Boston, Mass. Westinghouse Elec. & Mfg. Co.
	WADC	1320	1000	Akron, Ohio. Allen T. Simmons, P. O. Box 29.		WBZA	990	1000	Springfield, Mass. Westinghouse Elec. & Mfg. Co.
	WAGM	1420	100	Presque Isle, Me. Aroostook Broadcasting Corp.		WCAC	600	250	Storrs, Conn. Connecticut Agricultural College.
	WAIU	640	500	Columbus, Ohio. Associated Radioeastng Corp.		WCAD	1220	500	Canton, N. Y. St. Lawrence University.
	WALR	1210	100	Zanesville, Ohio. WALR-Broadcasting Corp.		WCAE	1220	1000	Pittsburgh, Pa. WCAE, Inc., Sun-Telegraph.
	WAMC	1420	100	Anniston, Ala. R. C. Hammett, 1200 Noble St.		WCAH	1430	500	Columbus, Ohio. International Bible Students Assn.
	WAML	1310	100	Laurel, Miss. Southland Radio Corp.		WCAL	1250	1000	Northfield, Minn. St. Olaf College.
	WAPI	1140	5000	Birmingham, Ala. WAPI Broadcasting Corp.		WCAM	1280	500	Camden, N. J. City of Camden, City Hall.
	WARD	1400	500	Brooklyn, N. Y. United States Broadcasting Corp.		WCAO	600	250	Baltimore, Md. Monumental Radio Co.
	WASH	1270	500	Grand Rapids, Mich. Kunsky-Trendle Broadcasting Corp.		WCAP	1280	500	Asbury Park, N. J. Radio Industries Broadcast Co.
	WAWZ	1350	250	Zarephath, N. J. Pillar of Fire.		WCAT	1200	100	Rapid City, S. D. South Dakota State School of Mines.
	WAZL	1420	100	Hazleton, Pa. Hazleton Broadcasting Service, Inc.		WCAU	1170	50000	Philadelphia, Pa. WCAU Broadcasting Co., 1622 Chestnut.
	WBAA	1400	500	West Lafayette, Ind. Purdue University.		WCAX	1200	100	Burlington, Vt. Burlington Daily News, Inc.

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WCAX 1070 50 Carthage, Ill. Superior Broadcasting Service, Inc.	WEBR 1310 100 Buffalo, N. Y. Howell Broadcasting Co., Inc., 735 Main.
WCBA 1440 250 Allentown, Pa. B. Bryan Musselman, 39-41 10th St.	WEDC 1210 100 Chicago, Ill. Emil Denmark, 3860 Ogden Ave.
WCBD 1080 5000 Zion, Ill. Wilbur Glenn Voliva.	WEED 1420 100 Greenville, N. C. Wm. Avera Wynne.
WCBM 1370 100 Baltimore, Md. Baltimore Broadcasting Corp.	WEEI 590 1000 Boston, Mass. Edison Elec. Illuminating Co.
WCBS 1210 100 Springfield, Ill. WCBS, Inc., 208½ S. 5th.	WEEU 830 1000 Reading, Pa. Berks Broadcasting Co., 533 Penn.
WCOC 810 50000 Minneapolis, Minn. Northwestern Broadcasting, Inc.	WEHC 1350 500 Charlottesville, Va. Community Brdstg. Corp.
WCFL 970 1500 Chicago, Ill. Chicago Federation of Labor.	WEHS 1420 100 Cicero, Ill. WEHS, Inc., 6138 W. 22nd St.
WCKY 1490 5000 Covington, Ky. L. B. Wilson, Inc.	WELL 1420 50 Battle Creek, Mich. Enquirer News Co., 7 N. McCamly St.
WCLO 1200 100 Janesville, Wis. WCLO Radio Corp.	WENC 1420 100 Americus, Ga. Americus Broadcast Corp.
WCLS 1310 100 Joliet, Ill. WCLS, Inc., 301 E. Jefferson St	WENR 870 50000 Chicago, Ill. Great Lakes Broadcasting Co.
WCNW 1500 100 Brooklyn, N. Y. Arthur Paske, 1525 Pitkin Ave.	WESG 1040 1000 Elmira, N. Y. Elmira Star Gazette, Inc.
WCOA 1340 500 Pensacola, Fla. Pensacola Broadcasting Co.	WEVD 1300 500 New York, N. Y. Jewish Daily Forward, Hotel Claridge.
WCOC 880 500 Meridian, Miss. Mississippi Broadcasting Co., Inc.	WEW 760 1000 St. Louis, Mo. St. Louis University, 221 N. Grand Blvd.
WCOD 1200 100 Harrisburg, Pa. Keystone Broadcasting Corp.	WEXL 1310 50 Royal Oak, Mich. Royal Oak Broadcasting Co.
WCRW 1210 100 Chicago, Ill. Clinton R. White, 2756 Pine Grove Ave.	WFAA 900 50000 Dallas, Texas. Morning News and Journal
WCSC 1360 500 Charleston, S. C. South Carolina Broadcasting Co., Inc.	WFAB 1300 1000 New York, N. Y. Fifth Avenue Broadcasting Corp.
WCSH 940 1000 Portland, Me. Congress Square Hotel Co., 157 High.	WFAM 1200 100 South Bend, Ind. South Bend Tribune, 200 W. Colfax.
WDAE 1220 1000 Tampa, Fla. Tampa Publishing Co., Tampa Terrace.	WFAS 1210 100 White Plains, N. Y. Westchester Broadcasting Corp.
WDAF 810 1000 Kansas City, Mo. Kansas City Star Co.	WFBC 1200 100 Greenville, S. C. Greenville News-Piedmont Co.
WDAG 1410 1000 Amarillo, Texas. National Radio & Broadcasting Corp.	WFBE 1200 100 Cincinnati, Ohio. WFBE, Inc., Hotel Sinton.
WDAH 1310 100 El Paso, Texas. Tri-State Broadcasting Co., Inc.	WFBG 1310 100 Altoona, Pa. Gable Broadcasting Co. 12th Av. & 13th St.
WDAS 1370 100 Philadelphia, Pa. WDAS Broadcast. Co., Inc. Broadwood Hotel.	WFBL 1360 1000 Syracuse, N. Y. Onondaga Radio Broadcasting Corp.
WDAY 940 1000 Fargo, N. D. WDAY, Inc., Black Bldg., 118 Broadway.	WFBM 1230 1000 Indianapolis, Ind. Indianapolis Power & Light Co.
WDBJ 930 250 Roanoke, Va. Times World Corp., 122 W. Church Ave.	WFBR 1270 500 Baltimore, Md. Baltimore Radio Show, Inc.
WDBO 580 250 Orlando, Fla. Orlando Broadcasting Co., Inc.	WFDF 1310 100 Flint, Mich. Flint Broadcasting Co.
WDEL 1120 250 Wilmington, Del. WDEL, Inc., 10th and King Sts.	WFDV 1500 100 Rome, Ga. Rome Broadcasting Corp., 10 3rd Ave.
WDEV 550 500 Waterbury, Vt. Harry C. Whitehill, Stowe St.	WFEA 1430 500 Manchester, N. H. New Hampshire Broadcasting Co.
WDGY 1180 1000 Minneapolis, Minn. Dr. Geo. W. Young, 909 W. Broadway.	WFI 560 500 Philadelphia, Pa. WFI Broadcasting Co., 801 Market.
WDOD 1280 1000 Chattanooga, Tenn. WDOD Broadcasting Corp., Hotel Patten.	WFIW 940 1000 Hopkinsville, Ky. WFIW, Inc., 8th and Main Sts.
WDRC 1330 1000 Hartford, Conn. WDRC, Inc., Corning Bldg., 11 Asylum St.	WFLA 620 1000 Clearwater, Fla. Florida West Coast Broadcasting Co., Inc.
WDSU 1250 1000 New Orleans, La. Jos. H. Uhalt, On Hotel DeSoto.	WFOX 1400 500 Brooklyn, N. Y. Paramount Broadcasting Co., 1 Nevins St.
WDZ 1070 100 Tuscola, Ill. James L. Bush.	WGAL 1310 100 Lancaster, Pa. WGAL, Inc., 8 W. King St.
WEAF 680 50000 New York, N. Y. National Broadcasting Co., Inc.	WGAR 1450 500 Cleveland, Ohio. WGAR Broadcasting Co., Hotel Statler.
WEAN 780 500 Providence, R. I. Shepard Broadcasting Service, Inc.	WGBB 1210 100 Freeport, N. Y. H. H. Carman, 64 S. Grove St.
WEBC 1290 1000 Superior, Wis. Head of the Lakes Broadcasting Co.	WGBF 630 500 Evansville, Ind. Evansville On the Air, Inc.
WEBQ 1210 100 Harrisburg, Ill. Harrisburg Broadcasting Co.	WGBI 880 250 Scranton, Pa. Scranton Broadcasters, Inc.

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WGCM 1210	100	Mississippi City, Miss.	WHOM 1450	250	Jersey City, N. J.
Great Southern Land Co., Gulfport, Miss.			New Jersey Broadcasting Corp.		
WGCP 1250	250	Newark, N. J.	WHP 1430	500	Harrisburg, Pa.
May Radio Broadcasting Co.			WHP, Inc., Harrisburg Telegraph.		
WGES 1360	500	Chicago, Ill.	WIAS 1310	100	Ottumwa, Iowa.
Oak Leaves Broadcasting Station, Inc.			Iowa Broadcasting Co., Hotel Ottumwa.		
WGH 1310	100	Newport News, Va.	WIBA 1280	500	Madison, Wis.
Hampton Roads Broadcasting Corp.			Badger Broadcasting Co., Inc.		
WGL 1370	100	Fort Wayne, Ind.	WIBG 930	25	Glenside, Pa.
F. C. Zieg, 213 W. Main St.			WIBG, Inc., Keswick Bldg.		
WGLC 1870	100	Hudson Falls, N. Y.	WIBM 1370	100	Jackson, Mich
O. T. Griffin & G. F. Bissell.			WIBM, Inc., Otsego Hotel.		
WGN 720	25000	Chicago, Ill.	WIBU 1210	100	Poynette, Wis.
WGN, Inc., Tribune Tower.			Wm. C. Forrest, R. F. D. No. 3.		
WGNV 1210	100	Chester, N. Y.	WIBW 580	1000	Topeka, Kans.
Peter Goelet (Orange County).			Topeka Broadcasting Assn. Inc.		
WGR 550	1000	Buffalo, N. Y.	WIBX 1200	100	Utica, N. Y.
Buffalo Broadcasting Corp.			WIBX, Inc., 1st Natl. Bank Bldg.		
WGST 890	250	Atlanta, Ga.	WICC 600	250	Bridgeport, Conn.
Georgia School of Technology.			Shepard Broadcasting Service, Inc.		
WGY 790	50000	Schenectady, N. Y.	WIL 1200	100	St. Louis, Mo.
National Broadcasting Co., Inc.			Missouri Broadcasting Corp.		
WHA 940	1000	Madison, Wis.	WILL 890	250	Urbana, Ill.
University of Wisconsin.			University of Illinois.		
WHAD 1120	250	Milwaukee, Wis.	WILM 1420	100	Wilmington, Del.
Marquette University.			Delaware Broadcasting Co., Inc.		
WHAM 1150	25000	Rochester, N. Y.	WIND 560	1000	Gary, Ind.
Stromberg-Carlson Tel. Mfg. Co.			Johnson-Kennedy Broadcasting Corp.		
WHAS 820	25000	Louisville, Ky.	WINS 1180	500	New York, N. Y.
Courier Journal & Louisville Times.			American Radio-News Corp.		
WHAT 1310	100	Philadelphia, Pa.	WIOD 1300	1000	Miami, Fla.
Curtis-Martin Newspapers, Inc.			Isle of Dreams Broadcasting Corp.		
WHAZ 1300	500	Troy, N. Y.	WIP 610	500	Philadelphia, Pa.
Rensselaer Polytechnic Institute.			Pennsylvania Broadcasting Co.		
WHB 860	500	Kansas City, Mo.	WIS 1010	500	Columbia, S. C.
WHB Broadcasting Co., Scarritt Bldg.			Station WIS, Inc., 1811 Main St.		
WHBC 1200	100	Canton, Ohio.	WISN 1120	250	Milwaukee, Wis.
Edw. P. Graham, 319 Tus. St., W.			American Radio News Corp.		
WHBD 1370	100	Mount Orab, Ohio.	WJAC 1310	100	Johnstown, Pa.
F. P. Moler.			WJAC, Inc., Tribune Bldg. Annex.		
WHBF 1210	100	Rock Island, Ill.	WJAG 1080	1000	Norfolk, Neb.
Rock Island Broadcasting Co.			Norfolk Daily News.		
WHBL 1410	500	Sheboygan, Wis.	WJAR 890	500	Providence, R. I.
Press Publishing Co.			Outlet Co., Weybossett St.		
WHBQ 1370	100	Memphis, Tenn.	WJAS 1290	1000	Pittsburgh, Pa.
Broadcasting Sta. WNBQ, Inc., Hotel Claridge.			Pittsburgh Radio Supply House.		
WHBU 1210	100	Anderson, Ind.	WJAX 900	1000	Jacksonville, Fla.
Anderson Broadcasting Corp.			City of Jacksonville.		
WHBY 1200	100	Green Bay, Wis.	WJAY 610	500	Cleveland, Ohio.
WEHY, Inc., Bellin Bldg.			Cleveland Radio Broadcasting Corp.		
WHDF 1370	100	Calumet, Mich.	WJBC 1200	100	LaSalle, Ill.
Upper Michigan Broadcasting Co.			Kaskaskia Broadcasting Co.		
WHDH 830	1000	Boston, Mass.	WJBI 1210	100	Red Bank, N. J.
Matheson Radio Co., 62 Boylston.			Monmouth Broadcasting Co., Inc.		
WHDL 1420	100	Tupper Lake, N. Y.	WJBK 1370	50	Detroit, Mich.
Tupper Lake Broadcasting Co.			James F. Hopkins, Inc., Curtiss Bldg.		
WHEB 740	250	Portsmouth, N. H.	WJBL 1200	100	Decatur, Ill.
Granite State Broadcasting Corp.			Commodore Broadcasting, Inc.		
WHEC 1430	500	Rochester, N. Y.	WJBO 1420	100	Baton Rouge, La.
WHEC, Inc., 40 Franklin St.			Baton Rouge Broadcasting Co., Inc.		
WHEF 1500	100	Kosciusko, Miss.	WJBW 1200	100	New Orleans, La.
Attala Milling & Produce Co.			C. C. Carlson, 2743 Dumaine St.		
WHET 1210	100	Troy, Ala.	WJBX 1270	1000	Jackson, Miss.
Troy Broadcasting Co.			Lamar Life Insurance Co.		
WHFC 1420	100	Cicero, Ill.	WJBY 1210	100	Gadsden, Ala.
WEFC, Inc., 6138 W. 22nd St.			Gadsden Broadcasting Co., 112 N. 8th St.		
WHIS 1410	250	Bluefield, W. Va.	WJEJ 1210	100	Hagerstown, Md.
Daily Telegraph Printing Co., Inc.			Hagerstown Broadcasting Co., Inc.		
WHK 1390	1000	Cleveland, Ohio.	WJEM 990	500	Tupelo, Miss.
Radio Air Service Corp.			Britt A. Rogers, Jr.		
WHN 1010	250	New York, N. Y.	WJJD 1130	20000	Chicago, Ill.
Marcus Loew Booking Agency.			WJJD, Inc., 201 N. Wells St.		

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WJMS 1420 100	Ironwood, Mich.
WJMS, Inc., St. James Hotel.	
WJR 750 10000	Detroit, Mich.
WJR, Inc., Fisher Bldg.	
WJSV 1480 10000	Washington, D. C.
Old Dominion Broadcasting Co.	
WJTL 1370 100	Atlanta, Ga.
Oglethorpe University.	
WJW 1210 100	Akron, Ohio.
WJW, Inc., 41 S. High St.	
WJZ 780 50000	New York, N. Y.
National Broadcasting Co., Inc.	
WKAQ 1240 1000	San Juan, P. R.
Radio Corp. of Porto Rico.	
WKAR 1040 1000	East Lansing, Mich.
Michigan State College.	
WKBB 1310 100	East Dubque, Ill.
Richard W. Hoffman	
WKBC 1310 100	Birmingham, Ala.
R. B. Broyles, Tutwiler Hotel.	
WKBF 1400 500	Indianapolis, Ind.
Indianapolis Broadcasting, Inc.	
WKBH 1380 1000	LaCrosse, Wis.
WKBH, Inc., 409 Main St.	
WKBI 1420 100	Cicero, Ill.
WKBI, Inc., 6128 W. 22nd St.	
WKBN 570 500	Youngstown, Ohio.
WKBN Broadcasting Corp.	
WKBV 1500 100	Cornersville, Ind.
Wm. O. Knox, Box 286	
WKBW 1480 5000	Buffalo, N. Y.
Buffalo Broadcasting Corp.	
WKBZ 1500 100	Ludington, Mich.
Karl L. Ashbacher & Sons.	
WKEU 1500 100	LaGrange, Ga.
Radio Station WKEU, 906 Hill St.	
WKFI 1210 100	Greenville, Miss.
J. Pat Seully, Box 302.	
WKJC 1200 100	Lancaster, Pa.
Lancaster Broadcasting Service, Inc.	
WKOK 1210 100	Sunbury, Pa.
Sunbury Broadcasting Co.	
WKRC 550 1000	Cincinnati, Ohio.
WKRC, Inc., Hotel Almas.	
WKY 900 1000	Oklahoma City, Okla.
Oklahoma Publishing Co.	
WKZO 590 1000	Kalamazoo, Mich.
John E. Fetzer, Burdick Hotel.	
WLAC 1470 5000	Nashville, Tenn.
Life & Casualty Insurance Co.	
WLAP 1200 100	Louisville, Ky.
American Broadcasting Corp. of Ky.	
WLB 1250 1000	Minneapolis, Minn.
University of Minnesota.	
WLBC 1310 50	Muncie, Ind.
D. A. Burton, Anthony Bldg.	
WLBK 1420 100	Kansas City, Kans.
WLBK Broadcasting Co., Huron Bldg.	
WLBL 900 2500	Stevens Point, Wis.
Wisconsin Dept. of Agriculture and Markets.	
WLBW 1280 500	Erie, Pa.
Broadcasters of Pennsylvania, Inc.	
WLBZ 620 500	Bangor, Me.
Maine Broadcasting Co., Inc., 100 Main.	
WLEC 1340 250	Portland, Me.
Casco Bay Broadcasting Co.	
WLEY 1370 100	Lexington, Mass.
Albert S. Moffat	
WLIT 560 500	Philadelphia, Pa.
Lit Bros. Broadcasting System, Inc.	
WLS 870 50000	Chicago, Ill.
Agricultural Broadcasting Co.	

WLTH 1400 500	Brooklyn, N. Y.
Voice of Brooklyn, Inc.	
WLVA 1370 100	Lynchburg, Va.
Lynchburg Broadcasting Corp.	
WLW 700 50000	Cincinnati, Ohio.
Crosley Radio Corp.	
WLWL 1100 5000	New York, N. Y.
Missionary Society of St. Paul.	
WMAL 630 250	Washington, D. C.
National Broadcasting Co., Inc.	
WMAQ 670 5000	Chicago, Ill.
National Broadcasting Co., Inc.	
WMAS 1420 100	Springfield, Mass.
WMAS, Inc., Hotel Stonehaven.	
WMAZ 1180 500	Macon, Ga.
Southeastern Broadcasting Co.	
WMBC 1420 100	Detroit, Mich.
Michigan Broadcasting Co.	
WMBD 1440 500	Peoria, Ill.
Peoria Broadcasting Co.	
WMBG 1210 100	Richmond, Va.
Havens and Martin, Inc.	
WMBH 1420 100	Joplin, Mo.
W. M. Robertson.	
WMBI 1080 5000	Chicago, Ill.
Moody Bible Institute.	
WMBO 1310 100	Auburn, N. Y.
WMBO, Inc., Metcalf Bldg.	
WMBQ 1500 100	Brooklyn, N. Y.
Paul J. Gollhofer, 95 Leonard St.	
WMBR 1370 100	Tampa, Fla.
F. J. Reynolds, 907 Florida Ave.	
WMC 780 500	Memphis, Tenn.
Commercial Appeal, Inc., Hotel Gayoso.	
WMCA 570 500	New York, N. Y.
Knickerbocker Broadcasting Co.	
WMMN 830 250	Fairmont, W. Va.
A. M. Rowe, Inc., 325 Main St.	
WMPC 1500 100	Lapeer, Mich.
First Methodist Protestant Church.	
WMT 600 500	Waterloo, Iowa.
Waterloo Broadcasting Co.	
WNAC 1230 1000	Boston, Mass.
Shepard Broadcasting Service, Inc.	
WNAD 1010 500	Norman, Okla.
University of Oklahoma.	
WNAX 570 1000	Yankton, S. D.
The House of Gurney, Inc., 2nd and Capital St.	
WNBK 1500 100	Binghamton, N. Y.
Howitt-Wood Radio Co., Inc.	
WNBH 1310 100	New Bedford, Mass.
New Bedford Broadcasting Co.	
WNBO 1200 100	Silver Haven, Pa.
John Brownlee Spriggs. (Washington, Pa.)	
WNBK 1430 500	Memphis, Tenn.
Memphis Broadcasting Co., Hotel DeVoy.	
WNBW 1200 10	Carbondale, Pa.
WNBW, Inc., 50 Main St., N.	
WNBX 1280 250	Springfield, Vt.
WNBX Broadcasting Corp., 39 Main St.	
WNBZ 1290 50	Saranac Lake, N. Y.
Smith & Mace, 70 Broadway.	
WNOX 560 1000	Knoxville, Tenn.
WNOX, Inc.	
WNRA 1420 100	Muscle Shoals, Ala.
Katrryn Jones	
WNYC 810 500	New York, N. Y.
Dept. of Plant and Structures.	
WOAI 1190 50000	San Antonio, Texas.
Southern Industries, Inc., 1038 Navarro.	
WOBV 580 250	Charleston, W. Va.
WOBV, Inc., Ruffner Hotel.	

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	WOC- 1000 50000 Des Moines, Iowa.		WRAX 1020 250 Philadelphia, Pa.
	WHO Central Broadstg. Co., 914 Walnut St.		WRAX Broadcasting Co., 217 S. Broad St.
X	WOCL 1210 50 Jamestown, N. Y.		WRBL 1200 100 Columbus, Ga.
	A. E. Newton, 840 N. Main St.		WRBL Radio Station, Inc.
	WODA 1250 1000 Paterson, N. J.		WRBX 1410 250 Roanoke, Va.
	WODAM Corp., 115 Ellison St.		Richmond Development Corp.
	WODX 1410 500 Mobile, Ala.		WRC 950 500 Washington, D. C.
	Mobile Broadcasting Corp., Battle House.		National Broadcasting Co., Inc.
	WOI 640 5000 Ames, Iowa.		WRDO 1370 100 Augusta, Me.
	Iowa State College.		WRDO, Inc., Augusta House.
	WOKO 1430 500 Albany, N. Y.		WRDW 1500 100 Augusta, Ga.
	WOKO, Inc., Hotel Ten Eyck.		Virgil V. Evans Co., 309 8th St.
	WOL 1310 100 Washington, D. C.		WREC 600 500 Memphis, Tenn.
	American Broadcasting Co., Annapolis Hotel.		WREC, Inc., Hotel Peabody.
	WOMT 1210 100 Manitowoc, Wis.		WREN 1220 1000 Lawrence, Kans.
	Francis M. Kadow, Box 326.		Jenny Wren Co., 8th and Vermont St.
	WOOD 1270 500 Grand Rapids, Mich.		WRHM 1250 1000 Minneapolis, Minn.
	Kunsky-Trendle Broadcasting Corp.		Minnesota Broadcasting Corp., 115 E. Grant.
	WOPI 1500 100 Bristol, Tenn.		WRJN 1370 100 Racine, Wis.
	Radiophone Broadcasting Station WOPI, Inc.		Racine Broadcasting Corp., Hotel Racine.
	WOQ 1300 1000 Kansas City, Mo.		WRNY 1010 250 New York, N. Y.
	Unity School of Christianity.		Marcus Loew Booking Agency.
	WOR 710 5000 Newark, N. J.		WROL 1310 100 Knoxville, Tenn.
	Bamberger Broadcasting Service, Inc.		Stuart Broadcasting Corp., 524 S. Gay.
	WORC 1280 500 Worcester, Mass.		WRR 1280 500 Dallas, Texas.
	Alfred F. Kleindienst, 60 Franklin St.		City of Dallas, Hilton Hotel.
	WORK 1000 1080 York, Pa.		WRUF 830 5000 Gainesville, Fla.
	York Broadcasting Co., 15 S. Beaver St.		State University.
	WOS 630 500 Jefferson City, Mo.		WRVA 1110 5000 Richmond, Va.
	State Highway Control, Capitol Bldg.		Larus & Bro. Co., Inc., 22nd and Gary St.
	WOSU 670 750 Columbus, Ohio.		WSAI 1330 100 Cincinnati, Ohio.
	Ohio State University.		Crosley Radio Corp., 1329 Arlington.
	WOV 1130 1000 New York, N. Y.		WSAJ 1310 100 Grove City, Pa.
	International Broadcasting Corp.		Grove City College.
	WOW 590 1000 Omaha, Neb.		WSAN 1440 250 Allentown, Pa.
	Woodmen of the World, 4th and Farnam.		WSAN, Inc., 39 10th St.
	WOWO 1160 10000 Fort Wayne, Ind.		WSAR 1450 250 Fall River, Mass.
	Main Auto Supply Co., 213 W. Main.		Doughty & Welch Electric Co., Inc.
	WPAD 1420 100 Paducah, Ky.		WSAZ 1190 1000 Huntington, W. Va.
	Paducah Broadcasting Co., Inc.		WSAZ, Inc., 929½ 4th Ave.
	WPAP 1010 250 New York, N. Y.		WSB 740 50000 Atlanta, Ga.
	Marcus Loew Booking Agency.		Atlanta Journal, 7 N. Forsyth St.
	WPEN 1500 100 Philadelphia, Pa.		WSBC 1210 100 Chicago, Ill.
	William Penn Broadcasting Co.		Gene T. Dyer, 1258 S. Michigan Ave.
	WPFB 1370 100 Hattiesburg, Miss.		WSBT 1230 500 South Bend, Ind.
	Hattiesburg Broadcasting Co., Box 530.		South Bend Tribune.
	WPG 1100 5000 Atlantic City, N. J.		WSEN 1210 100 Columbus, Ohio.
	Columbia Broadcasting System.		Columbus Broadcasting Corp., 144 S. High.
	WPHR 1200 100 Petersburg, Va.		WSFA 1410 500 Montgomery, Ala.
	WLBG, Inc., Medical Arts Bldg.		Montgomery Brdg. Co., Inc., Jeff. Dav. H'l.
	WPRO 1210 100 Providence, R. I.		WSIX 1210 100 Springfield, Tenn.
	Cherry & Webb Broadcasting Co., 15 Chestnut.		638 Tire & Vulcanizing Co.
	WPTF 880 5000 Raleigh, N. C.		WSJS 1310 100 Winston-Salem, N. C.
	Durham Life Insurance Co.		Winston-Salem Journal Co., 416 N. Marshall.
	WQAM 560 1000 Miami, Fla.		WSM 850 50000 Nashville, Tenn.
	Miami Broadcasting Co., Inc., 327 N. E. 1st Ave.		National Life & Accident Insurance Co.
	WQAN 880 250 Scranton, Pa.		WSMB 1320 500 New Orleans, La.
	Scranton Times, 149 Penn Ave.		WSMB, Inc., Maison Blanche Bldg.
	WQAO 1010 250 New York, N. Y.		WSMK 1380 200 Dayton, Ohio.
	Marcus Loew Booking Agency.		S. M. Krohn, Jr., 4th and Main St.
	WQBC 1360 500 Vicksburg, Miss.		WSOC 1210 100 Charlotte, N. C.
	Delta Broadcasting Co., Hotel Vicksburg.		WSOC, Inc., Box 730.
	WQDM 1370 100 St. Albans, Vt.		WSPA 1420 100 Spartanburg, S. C.
	A. J. St. Antoine and E. J. Regan.		Virgil V. Evans, Ravenel and Avant St.
	WQDX 1210 100 Thomasville, Ga.		WSPD 1340 1000 Toledo, Ohio.
	Stevens Luke, 135 E. Jackson St.		Toledo Broadcasting Co., 505 Jefferson
	WRAK 1370 100 Williamsport, Pa.		WSUI 880 500 Iowa City, Iowa.
	WRAK, Inc., 244 W. 4th St.		State University of Iowa.
	WRAM 1370 100 Wilmington, N. C.		WSUN 620 1000 St. Petersburg, Fla.
	Wilmington Radio Assn., Princess St.		Florida Westcoast Broadcasting Co., Inc.
	WRAW 1310 100 Reading, Pa.		WSVS 1370 50 Buffalo, N. Y.
	Reading Broadcasting Co., 533 Penn St.		Seneca Vocational High School.

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	WSYB 1500 100 Rutland, Vt. Philip Weiss Music Co., 80 West St.	XEC 1000 50 Toluca, D. F. Jesus R. Benavides.
	WSYR 570 250 Syracuse, N. Y. Central New York Broadcasting Corp.	XED 1155 500 Guadalajara, Jal. Radiofonografica de Guadalajara, S. A.
	WTAD 1440 500 Quincy, Ill. Illinois Broadcasting Corp., State and 6th.	XEF 735 150000 Villa Acuna, Coah. Ompania Radiodifusora de Acuna, S. A.
	WTAG 580 250 Worcester, Mass. Worcester Telegram Publishing Co.	XEFA 1250 500 Mexico City, D. F. Eduardo Limon Segui.
	WTAM 1070 50000 Cleveland, Ohio. National Broadcasting Co., Inc.	XEFB 1315 100 Monterrey, N. L. Jesus Quintanilla.
	WTAQ 1330 1000 Eau Claire, Wis. Gillette Rubber Co., Hotel Eau Claire.	XEFC 1050 100 Merida, Yuc. J. Me Molina Font.
	WTAR 780 500 Norfolk, Va. WTAR Radio Corp., Wainwright Bldg.	XEFD 757 5000 Tijuana, B. C. Goodwill Broadcasting Co. (Box 1441 San Diego)
	WTAW 1120 500 College Station, Texas. Agricultural and Mechanical College.	XEFE 1000 100 Laredo, Tams. Rafael T. Carranza.
	WTAX 1210 100 Springfield, Ill. WTAX, Inc., 416 E. Capitol Ave.	XEFG 1085 500 Mexico City, D. F. Ricardo Gonzales Montero, Tepic 48
	WTBO 1420 100 Cumberland, Md. Associated Broadcasting Corp., Box 794.	XEFI 1260 250 Chihuahua, Chih. Feliciano Lopez Isles, Ap. 157.
	WTEL 1310 100 Philadelphia, Pa. Foulkrod Radio Engineering Co., Inc.	XEFJ 1000 100 Monterrey, N. L. R. Junco de la Vega.
	WTFI 1450 500 Athens, Ga. Liberty Broadcasting Co., Costa Bldg.	XEFO 940 5000 Mexico City, D. F. Partido Nacional Revolucionario.
	WTIC 1060 50000 Hartford, Conn. Travelers Broadcasting Service Corp.	XEFS 1000 40 Queretaro, Qro. Salvador Sanchez.
X	WTJS 1310 100 Jackson, Tenn. Sun Publishing Co., Sun Bldg.	XEFV 1370 100 Juarez, Chih. J. Onofre Meza.
	WTMJ 620 1000 Milwaukee, Wis. The Journal Co., 333 W. State St.	XEFW 1280 70 Tampico, Tams. J. Expedito Martinez.
	WTNJ 1280 500 Trenton, N. J. Trenton Broadcasting Co., Stacy Trent Hotel.	XEFZ 1370 100 Mexico City, D. F. Jose Onofre Meza.
	WTOG 1260 500 Savannah, Ga. Savannah Broadcasting Co., Inc., DeSoto Hotel.	XEG 1075 500 Mexico City, D. F. Ricardo Gonzales Montero.
	WTRC 1310 50 Elkhart, Ind. Truth Radio Corp., Hotel Elkhart.	XEH 1132 250 Monterrey, N. L. Tarnava y Cia, P. Mier 215.
	WWAE 1200 100 Hammond, Ind. Hammond Calumet Broadcasting Corp.	XEI 1310 250 Morella, Mich. Carlos Gutierrez M.
	WWJ 920 1000 Detroit, Mich. Evening News Assn., 616 Lafayette Blvd.	XEJ 1015 500 Juarez, Chih. Juan G. Buttner and Leo Allande.
	WWL 850 10000 New Orleans, La. Loyola University, Roosevelt Hotel.	XEK 990 100 Mexico City, D. F. Arturo Martinez. Jalapa No. 51
	WWNC 570 1000 Asheville, N. C. Citizen Broadcasting Co., Inc., Flatiron Bldg.	XEL 1000 40 Saltillo, Coah. Antonio Garza Castro.
	WWRL 1500 100 Woodside, N. Y. Long Island Broadcasting Corp.	XEN 711 1000 Mexico City, D. F. Cerveceria Modelo S. A.
	WWSW 1500 100 Pittsburgh, Pa. Walker & Downing Radio Corp.	XENT 1115 150000 Nuevo Laredo, Tams. Cia Industrial Universal S. A.
	WWVA 1180 5000 Wheeling, W. Va. West Virginia Broadcasting Corp.	XEO 940 5000 Mexico City, D. F. Partido Nacional Revolucionario.
	WXYZ 1240 1000 Detroit, Mich. Kunsky-Trendle Broadcasting Corp.	XEP 780 500 Mexico City, D. F. Cia Difusora de Mexico S. A.
	XEA 1000 250 Guadalajara, Jal. Alberto Falos Souza.	XEPN 585 75000 Piedras Negras, Coah Piedras Negras Broadcasting Co.
	XEAB 1450 7.5 Nuevo Laredo, Tams. Horacio Mattei A. y Humberto Garcia.	XEQ 1330 500 Mexico City, D. F.
	XEAC 1295 100 San Luis Potosi, S.L.P. Francisco de P. Cabrera.	XER 735 150000 Villa Acuna, Coah. Compania Radiodifusora de Acuna, S. A.
	XEAD 875 250 Mexico City, D. F. Julio Zetina Osorio.	XES 1020 250 Tampico, Tams. Fernando Sada, Hotel Inglaterra.
	XEAE 980 800 Tijuana, B. C. Adolfo Labastida Jr Apt. 10	XET 690 500 Monterrey, N. L. Cadena Radiodifusora Mexicana, S. A.
	XEAI 1090 100 Mexico City, D. F. Carlos Gonzales Caballero.	XETA 1180 250 Mexico City, D. F. Manuel Espanzo Tagle.
	XEAN 750 5000 Juarez, Chih. Radio Difusora National S. A.	XETB 1380 125 Torreon, Coah. Jose A. Berumen.
	XEAO 560 100 Mexicali, B. C. Luis L. Castro.	XETH 860 100 Puebla, Pue. Ramon Huerta G.
	XEAW 965 10000 Reynosa, Tams. Internacional Broadcasting Co., S. A.	XETR 610 1000 Mexico City, D. F. Cia Difusora Mexicana S. A.
	XEB 1030 10000 Mexico City, D. F. El Buen Tono, S. A., Buen Tono No. 6.	XETU 890 100 Pachuca, Hdgo. Rodrigo Manriquez.

INDEX BY CALL LETTERS

XETW	830 500	Mexico City, D. F. Rafael M. Pena. Gante 4, 3er piso
XEU	1010 100	Veracruz, Ver. Fernando Pazos Sosa.
XEW	910 5000	Mexico City, D. F. Cadena Radiodifusora Mexicana S. A.
XX	1210 500	Mexico City, D. F. "Excelsior" Cia Editorial S. A.
XEY	548.8 10	Merida, Yuc. Partido Socialista del Surest.
XEYZ	780 10000	Mexico City, D. F. Radiodifusora Continental S. A.
XEZ	630 500	Merida, Yuc.
XFB	1290 1000	Jalapa, Ver. Gobierno del Estado de Veracruz.
XFC	805 350	Aguascalientes, Ags. Gobierno del Estado de Aguascalientes.
XFG	638.3 2000	Mexico City, D. F. Secretaria de Guerra y Marina.
XFO	840 5000	Mexico City, D. F. National Revolucionario Party.
XFX	840 500	Mexico City, D. F. Secretaria de Educacion Publica.

YV1BC	850 6000	Caracas, Venez. Cia Ama Alamaoen Americana.
YV2BC	882 100	Caracas, Venez.
YV3BC	1200 1000	Caracas, Venez. Degwitz & Siblesz.
10-AK	1200 15	Stratford, Ont. M. I. Higgins, 151 Ontario St.
10-AT	1155 25	Trail, B. C. Trail Amateur Radio Assn.
10-BI	1200 25	Prince Albert, Sask. Prince Albert Radio Club.
10-BP	1200 15	Wingham, Ont. W. T. Cruickshank.
10-BQ	1200 5	Brantford, Ont. Tom and Harold Brown.
10-BU	1200 15	Canora, Sask. Canora Radio Assn.

AIRPORT RADIO STATIONS OF THE U. S.

KBTY	Butte, Mont., 20-21-22-23-38-41	KGUP	Phoenix, Ariz., 2-3-19-28-31-40-45-46
KEU	Burbank, Calif., 20-21-22-23-38-41	KGUQ	Indio, Calif., 2-3-19-28-31-40-45-46
KFM	Sacramento, Calif., 20-21-22-23-38-41	KGUR	Burbank, Calif., 2-3-19-28-31-40-45-46
KFO	Oakland, Calif., 5-6-20-21-22-23-30-38-41-43-44	KGUS	Blythe, Calif., 2-3-31-45-46
KGE	Medford, Ore., 20-21-22-23-38-41	KGUT	Robertson, Mo., 3-19-24-25-26-27-28-31-39-40
KGJW	Brownsville, Tex., 9-15-32-35-42-47-48-56-58	KGUU	Little Rock, Ark., 2-3-19-28-31-40
KGQW	Juneau, Alaska, 8	KGUY	Oakland, Calif.,
KGQX	Seattle, Wash., 8	KGUZ	Ponca City, Okla., 20-22-23-38
KGQZ	San Diego, Calif., 20-21-22-23-38-41	KIFM	Fairbanks, Alaska, 7-17-30-55-56
KGSB	San Bruno, Calif., 11-12-15-16-29-37-49-56	KJE	Reno, Nev., 5-6-20-21-22-23-30-38-41-43-44
KGSC	Oklahoma City, Okla., 11-12-15-16-26-29-37-49-56	KKO	Elko, Nev., 20-21-22-23-38-41
KGSE	Iowa City, Iowa,	KMP	Omaha, Neb., 5-6-20-21-22-23-30-38-41-43-44
KGSG	Oklahoma City, Okla.,	KMR	No. Platte, Nebr., 20-21-22-23-38-41
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KGSM	Salina, Kans., 13	KNAT	Dallas, Tex., 20-21-22-23-38-41
KGSP	Denver, Colo., 11-12-15-16-29-37-49-56	KNAU	Tulsa, Okla., 20-21-22-23-38-41
KGSR	Pueblo, Colo., 11-12-15-16-29-37-49-56	KNWA	St. Paul, Minn., 10-14-34
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KGTO	Springfield, Mo., 11-12-17-18-29-36-50-56	KRD	Pasco, Wash., 20-21-22-23-38-41
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KGUK	Shreveport, La., 19-28-40	WAEF	Newark, N. J., 11-12-17-18-29-36-50-56
KGUL	Ahilete, Tex., 19-28-40	WAEG	Cresson, Pa., 11-12-17-18-29-37-50-56
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 WAEK Mobile, Ala., 19-28-40
 WAEL Toledo, Ohio,

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 WNAM Lewisburg, Pa., 20
 WNAO Plainfield, N. J., 20
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 WNAU Moline, Ill., 20-21-22-23-38-41
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	Megs.	Meters	Megs.	Meters	
1.	2.316	129.45	16.	3.076	97.47
2.	2.326	128.89	17.	3.082	97.28
3.	2.344	127.91	18.	3.088	97.09
4.	2.356	127.25	19.	3.128	95.86
5.	2.482	120.79	20.	3.160	94.87
6.	2.506	119.64	21.	3.166	94.69
7.	2.648	113.22	22.	3.172	94.52
8.	2.650	113.13	23.	3.178	94.34
9.	2.662	112.62	24.	3.238	92.59
10.	2.680	111.87	25.	3.452	86.85
11.	2.722	110.14	26.	3.460	86.65
12.	2.734	109.67	27.	3.468	86.45
13.	2.906	103.13	28.	3.484	86.05
14.	3.004	99.79	29.	4.108	72.98
15.	3.070	97.66	30.	4.124	72.70

	Megs.	Meters	Megs.	Meters	
31.	4.140	72.42	45.	6.260	47.89
32.	4.164	72.00	46.	6.275	47.78
33.	4.740	63.25	47.	6.305	47.55
34.	5.375	55.78	48.	6.320	47.43
35.	5.405	55.47	49.	6.350	47.22
36.	5.510	54.41	50.	6.365	47.10
37.	5.540	54.12	51.	6.380	46.99
38.	5.570	53.82	52.	6.400	45.84
39.	5.600	53.53	53.	6.550	45.77
40.	5.630	53.25	54.	6.560	45.70
41.	5.660	52.97	55.	6.570	45.63
42.	5.690	52.69	56.	8.015	37.40
43.	6.215	48.24	57.	12.180	24.61
44.	6.230	48.12	58.	12.210	24.55

Let's CLEAN Up the SET

(Continued from page 24)

iceman are required in order properly to retune a complicated receiver. Inexperienced handling of trimmer condensers frequently results in an entirely new set of dial readings because of the increased or decreased capacity of the tuning gang-unit.

Make Careful Inspection

Examine the wires beneath the chassis. Separate any grid wires that have fallen too close to adjacent wires. Test the fastenings of the shield cams and, if loose, remove and clean the contacting surfaces with emery-cloth before replacing tightly and firmly. Poor shield contacts may cause instability, poor tuning, noise, fading and sudden oscillations. Bend the socket springs so

they will make good contact with the prongs of the tubes. A little brightening with emery-cloth will be time well spent. A little vaseline on some tuning units and dials, such as the Philco, will stop jerky or clicking tuning. The entire dial mechanism should be overhauled and oiled, but take care not to move the dial and thus change the dial readings.

The Volume Control

The volume control, if wire wound, can be polished by rubbing lightly with emery-cloth. If worn or noisy it should be replaced with a new one ordered from the manufacturer, but be careful to replace the wires in exactly the same positions. Clean the contacts of the off-on and local-distance switches, and such other short-wave switches as may be on the chassis.

Test all the tubes. A new rectifier

often works wonders. The power tubes also lose their tone and volume qualities before the other tubes in the set. Clean all the old tubes and scrape the prong contacts to a bright finish. RADEX has presented considerable data about replacing old tubes with the newer types.

Check the ground and antenna wires. Shielding of the down-lead will improve reception, as explained in the October, 1933, issue of RADEX. Filtering devices will remove most power line noises, as shown in the April, 1933, issue. And headphones, for perfect DX work, may be attached, as indicated in the February, 1933, number of RADEX.

The BEGINNERS' STORY

(Continued from page 7)

The wire through which electricity flows is a *conductor*. Copper is the best commercial material, but silver is the most nearly perfect. There are materials that prevent the flow of an electric current, such as glass, hard-rubber, bakelite, etc. They are known as *insulators*. Other materials retard the flow of electricity to various extents, and they are known as *resistances*. The unit of resistance is the *ohm*. The unit of conductivity is the opposite of resistance—the *mho*. 1,000,000 ohms is called a *megohm*.

The ampere, volt and ohm work together in all electrical and radio circuits. Their relationship is interesting and of vast importance in making circuit calculations. Perhaps some of our readers will wish to look up *Ohm's Law* in text books and make a more complete study of its many combinations in radio. *Milli* means one-thousandth part of some unit, such as *milli-ampere*, which is one-thousandth of an ampere of current. *Micro* is one-millionth part of an unit; *micro-volt* being one-millionth of a volt.

(Next month we shall see how al-

ternating currents may be used to transfer electric currents from one circuit to another; how radio and audio-currents are amplified; how magnetism and electricity are inseparable; and how transformers work.)

Queries

1. What is audio frequency? Radio frequency?
2. What is direct current? Alternating current?
3. What is 60-cycle A. C.?
4. What is a kilocycle? A megacycle?
5. Do positive and negative electricity attract or repel each other?
6. What is the effect of connecting batteries in series? In parallel?
7. What is the unit of measure of electrical pressure? Of quantity? Of consumption? Of resistance?
8. What is the frequency-of-vibration limit of the human ear?
9. What is the relation between frequency and length of wave?
10. What is a carrier wave and what function has it?

STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., REQUIRED BY THE ACT OF CONGRESS OF AUGUST 24, 1912

OF RADIO INDEX (RADEX), published Monthly, except July and August, at Mount Morris, Illinois, for October 1, 1933.

State of Ohio }
County of Cuyahoga } ss.

Before me, a Notary Public, in and for the State and county aforesaid, personally appeared Fred C. Butler, who, having been duly sworn according to law, deposes and says that he is the President of The Radex Press, Inc., publishers of RADIO INDEX and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management (and if a daily paper, the circulation), etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, embodied in section 411, Postal Laws and Regulations, printed on the reverse of this form, to wit:

1. That the names and addresses of the publisher, editor, managing editor, and business managers are: Publisher, Fred C. Butler, Hanna Building, Cleveland, Ohio; Editor, Fred C. Butler, Hanna Building, Cleveland, Ohio; Managing Editor, none; Business Managers, none.

2. That the owner is: (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding one per cent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a firm, company, or other unincorporated concern, its name and address, as well as those of each individual member, must be given.) The Radex Press, Inc., Hanna Building, Cleveland, Ohio; Fred C. Butler, Hanna Building, Cleveland, Ohio.

3. That the known bondholders, mortgagees, and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: (If there are none, so state.) None.

4. That the two paragraphs next above, giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustee, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by him.

FRED C. BUTLER.

Sworn to and subscribed before me this 29th day of September, 1933.

EDITH C. PHALEN, Notary Public.

(My commission expires May 11, 1935.)

Over the

EDITOR'S DESK

(Continued from page 11)

of razzberries. From the interesting little magazine "Tune In," the official organ of the New Zealand Radio Association, we quote the record of a member of that Association living in Lyttelton, N. Z., "—my radio experience with a one-valve receiver at Auckland. During the sixteen months I was DXing, I compiled a log of

about 90 stations. Often my efforts were not appreciated by radio acquaintances, many of whom openly expressed their disbelief that I had heard stations in Hawaii, U. S., Japan and the Philippine Islands. I have proof enough to satisfy the most disbelieving critics, for my verifications include KDYL, KFOX, KGA, KROW, WTAM, JOAK and JOCK. I used phones, of course." This report from the other side indicates the amazing things that can happen in radio.

The FREQUENCY CHECKS

(Continued from page 4)

1500 kos.

KGFI	Corpus Christi, Tex., Fri. 5:10
KGFK	Moorhead, Minn., Fri. 5:50
KGKB	Tyler, Tex., Fri. 5:30
KGKY	Scottsbluff, Neb., Wed. 4:00
KNOW	Austin, Tex., Thur. 5:40
✕KPJM	Prescott, Ariz., Tue. 4:10
✕KPQ	Wenatchee, Wash., Mon. 4:00
✕KXO	El Centro, Calif., Tue. 4:30
WHEF	Kosciusko, Miss., Tue. 3:30
WKBV	Connerville, Ind., Thur. 4:50
WKCB	Ludington, Mich., Thur. 4:30
WKUE	LaGrange, Ga., Tue. 2:40
WMBQ	Brooklyn, N. Y., Sat. 2:40
✕WMIL	Brooklyn, N. Y., Mon. 2:00
WMPC	Lapeer, Mich., Thur. 4:10
✕WNBF	Binghamton, N. Y., Mon. 2:20
WRDW	Augusta, Ga., Thur. 3:00
WSYB	Rutland, Vt., Mon. 3:10
WWRL	Woodside, N. Y., Sat. 2:20
WWSW	Pittsburgh, Pa., Mon. 2:40

From Our Own LOUD SPEAKER

"I have found it to be the most complete, accurate and reliable radio publication I have ever known. At times I just can't wait for the next copy."—W. T. R. Morris, Jr., 3219 Garland Ave., Richmond, Va.

"Just a line to tell you how much I like RADEX. I think it is the best radio magazine on the market, bar none. I absolutely could not do without it."—B. Hook, 315 Delatre St., Woodstock, Ontario.

"Your magazine is fine—seems to be the only radio magazine that started good and stayed that way."—L. D. Smith, 524 E. 9th St., Erie, Pa.

"I am an enthusiastic reader of RADEX and think it is the finest magazine of its kind on the market."

—Leslie Scourfield, 299 Tunis Street, Ingersoll, Ont.

"Mr. Frank Barnett, New Zealand's champion DXer, showed me your magazine and I think it grand."—A. Mervyn Branks, Winton, Southland, New Zealand.

"I shall never be without it. I give RADEX credit for my best catches."—Woodrow Welling, Roberts, Idaho.

"Sorry I did not get RADEX years ago; it is OK; nothing like it."—Ker R. Graham, P. O. Box 61, Gisborne, New Zealand.

"I've been a reader for several years. I find it indispensable."—Raymond M. Bell, 55 Wilson St., Carlisle, Pa.

STATION CHANGES

During October

FREQUENCIES

925	CMCD	Havana, Cuba, from 1140
1010	CHML	Hamilton, Ont., from 890
1030	CFNB	Fredericton, N. B., from 1210
1120	CKOC	Hamilton, Ont., from 1010
1125	CMHJ	Cienfuegos, Cuba, from 1190
1140	CMBW	Havana, Cuba, from 925
1210	CFBO	St. John, N. B., from 1030

POWER

1030	CKNC	Toronto, Ont., 500 to 100
1200	10-BP	Wingham, Ont., 25 to 15
1200	10-BQ	Brantford, Ont., 15 to 5
1210	CFBO	St. John, N. B., 500 to 100
1210	WGNY	Chester, N. Y., 50 to 100
1290	XFB	Jalapa, Ver., 500 to 1000
1330	WDRG	Hartford, Conn., 500 to 1000

DELETED

630	XETP	Veracruz, Ver.
1200	KFWF	St. Louis, Mo.
1350	WCDA	New York, N. Y.
1350	WMSG	New York, N. Y.

LOCATION

1210	WSOC	Charlotte, N. C., from Gastonia, N. C.
1310	WKBB	East Dubuque, Ill., from Joliet, Ill.
1420	WJBO	Baton Rouge, La., from New Orleans, La.

NEW

910	CRCM	LaPrairie, Que.
1085	XEPG	Mexico City, D. F.

CALLS

1420	WNRA	Muscle Shoals, Ala., formerly WMED
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OWNERS

850	KWKH	Shreveport, La., to International Broadcasting Corp.
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CHAINS

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PERMIT TO CHANGE LOCATION

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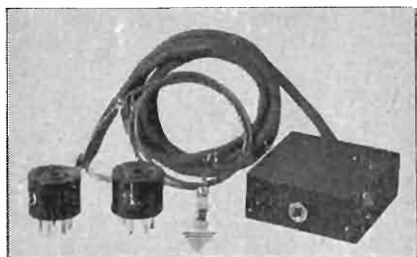
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