

RADIO DOINGS
CALL BOOK

25[¢]

Complete American Broadcasters
Short Wave and Foreign Stations

1930 EDITION



MERLIN H. AYLESWORTH
President, N. B. C.

SEE PAGE 82 FOR TABLE OF CONTENTS

Beat this Combination

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JOSE MOJICA

and

JOSEPH PASTERNAK

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When In Doubt---

Within the pages of this Call Book all the broadcast stations are listed in full. The Dial Log, which simplifies locating stations on the Pacific Slope and many DX stations, is a handy reference.

Stations along the Pacific Coast are listed on the left of the Dial Log in Column 1; wave lengths in Column 2; space for your own log in Column 3; channels in Column 4; the frequencies in Column 5, and distant

stations in Column 6. You can write in the actual dial settings of your receiver, if it is numbered from 0 to 100.

Tune in your local stations and with a pencil mark your dial settings on the Dial Log. The distant stations may then be located by their position with respect to your local dial-logging.

If the dial or drum of your receiver is marked in meters (wave lengths), use Columns 1 and 2 for Pacific stations; 2 and 6 for additional Western and DX stations. You will locate KFI

1 Pacific Coast Stations	2 Wave Length	3 Low Chanl.	4 Chanl.	5 Fre- quency	6 DX Stations
KOAC	545.1	1	2	550	KFUO, WGR, KSD, KFDY, KFYY, WKRC
KTAB	535.4	2	3	560	WNOX, KLZ, KFDM, WFI, WIBO
KMTR	526.0	3	4	570	WNAK, KUOM, KXA, W'WNC, WNYC, KGKO, WEAO
	516.9	4	5	580	W'WUI, WSAZ, KGFX, KSAC, CNRE, CKUA, CJCA
KHQ	508.2	5	6	590	WCAJ, WOW, WEMC, WEEI, XFI
KFSD	499.7	6	7	600	W'WRAF, WOAN, WCAO, W'WAC, CJRW, CJRM
KFRG	491.5	7	8	610	W'DEAF, WOQ, WIP, W'WAN
KGW	483.6	8	9	620	KFAD, WDAE, WDBO, WTMJ, WFLA-WSUN
	475.9	9	10	630	WOS, KFRU, WGBF, KFXF, KFEL, CFCT, CJGX
KFI	468.5	10	11	640	WAIU, WOI
	461.3	11	12	650	WSM
	454.3	12	13	660	WEAF, WAAW
	447.5	13	14	670	WMAQ
KFO	440.9	14	15	680	WPTF, KFEQ
	434.5	15	16	690	CFCN, CFAC, CHCA, CJCI, CKGW, CNRC
	428.3	16	17	700	W'WLW
KEJK	422.3	17	18	710	W'WOR, W'HB
	416.4	18	19	720	WGN-WLIB
	410.7	19	20	730	CNRM, CKAC, CKWX, CKCD, XEN
	405.2	20	21	740	W'WSB, KMMJ, XEB
	399.8	21	22	750	WJR, JOBK, 3YA
KJR	394.5	22	23	760	WJZ, W'EW, JQAK, 5CL
	389.4	23	24	770	KFAB, WBBM-WJBT
KTM, KELW	384.4	24	25	780	WMC, W'WAR, W'POR, 4QG, CNRW, CKY, JOBK
KGO	379.5	25	26	790	WGY, JOCK
	374.8	26	27	800	W'WAP, W'FAA, JOAK
	370.2	27	28	810	WCCO, W'PCH, 6KW, 3LO, JOCK
	365.6	28	29	820	W'HAS, JODK, XFC
	361.2	29	30	830	KOA, W'HDH, JOIK
	356.9	30	31	840	CHCT, CKLC, CJBC, CKDW, HHK, CMC
	352.7	31	32	850	KWKH, W'WL, JOFK, 2BL
KFQZ	348.6	32	33	860	WABC-WBOO
	344.6	33	34	870	WLS, W'ENR-WBCN, JOAK
KLX	340.7	34	35	880	KPOF, K'FKA, WCOO
	336.9	35	36	890	KUSD, K'FNF, WILL, WKAQ, WMAZ, WNMN
KHJ	333.1	36	37	900	KSEI, W'LB, WKY, IYA
	329.5	37	38	910	CFOC, CNRS, CJCC, CJHS, CNRL
KVI	325.9	38	39	920	W'WJ, KPRC, WAAF, WBSO, 2GR, XEO
KFWI, KFWM	322.4	39	40	930	KMA, KGBZ, W'BR, WDBJ, CHNS
KOIN	319.0	40	41	940	KGU, W'FIW, WHA
KFWB	315.6	41	42	950	KGHL, WRC, KMBC
	312.3	42	43	960	CKGW, C'FRB, CJBC, CKCK, CJBR, C'FCR
KOMO	309.1	43	44	970	W'CFI
	305.9	44	45	980	KDKA
	302.8	45	46	990	W'BZ, W'BA
KFYD	299.8	46		1000	W'HO, WOC, GOW

Use the Dial Log

at 468.5, KNX at 285.5, KGO at 379.5.

If the dial or drum is marked in kilocycles (frequencies), use Columns 1 and 5 for Pacific stations and 5 and 6 for DX stations. You may locate KOA at 830.

Should the dial or drum of your receiver be numbered 0 to 100 or 0 to 250, the above will be of no value; consequently you will have to first log your locals, then consult the Dial Log and "go fishing" among the channels.

Distant American, Cuban, Japanese, Australian and Mexican stations are listed in Column 6.

WLW will be found in Channel 16, 428.3 meters, 700 kilocycles. XEN is located two channels from KEJK, JOAK in the same wave length, channel and frequency as WENR, etc.

Complete information regarding each station may be found under the corresponding channel or other listings in the pages which follow.

296.9	47	1010	WNAD, KGGF
293.9	48	1020	KYW-KFKX
291.1	49	1030	CJOR, CNRV, CFCF
288.3	50	1040	KRLD, WKEN, WKAR, KTHS
285.5	51	1050	KFKB
282.8	52	1060	WBAL, WJAG, WVIC
280.2	53	1070	WTAM, WEAR
277.6	54	1080	WBT, WCBD, WMBI
275.1	55	1090	KMOX-KFOA
272.6	56	1100	WPG, WLWL
270.1	57	1110	WRVA, KSOO
267.7	58	1120	KRSC, KUT, WTAW, WHAD, WISN, WCOA
265.3	59	1130	KSL, WJJD, WOY
263.0	60	1140	WAPI, KVOO
260.7	61	1150	WHAM
258.5	62	1160	WVVA, WOWO
256.3	63	1170	WCAU, KTNT
254.1	64	1180	KOB, WGBS, WDGY, WHDI
252.0	65	1190	WOAI, WICC
249.9	66	1200	KXO, KGEW, KFHA, KVOS, KWG
247.8	67	1210	KDLR, KFOR, KMJ, KPCB, KPQ
245.8	68	1220	WREN, KFKU, WCAE, WCAD
243.8	69	1230	WSBT, WFBM, KFQD, KGGM
241.8	70	1240	WJAD, WGHF, WQAM, KSAT
239.9	71	1250	KIDO, WCAL, WRRM, KFMC, WAAM, WDSU
238.0	72	1260	WJAX, KOIL, KWVG, KRGV, KVOA
236.1	73	1270	KFUM, WOOD, WASH, WJDX
234.2	74	1280	WRR, WDAY, WDOD, WCAP, WCAM
232.4	75	1290	KDYL, K TSA, KFUL, WJAS, WEBC
230.6	76	1300	KFJR, KTBR, WIBW, KFH, WHAP, WBBR
228.9	77	1310	KFUP, KFXJ, WDAH, KMED, KISM, KFXR
227.1	78	1320	KGHF, KGIQ, WADC, KID, W S M B
225.4	79	1330	WTAO, KSCJ, WDRC, WSAI
223.7	80	1340	WSPD, KFPW
222.1	81	1350	KWK
220.4	82	1360	KFBB, KGIR, WGES, WJKS, WQBC, WLEX
218.8	83	1370	KFBL, KRE, KFJI, KIT, KLO
217.3	84	1380	KSO, WKBH, KQV, WSMK
215.7	85	1390	WHK, KLR, KUOA, KOY
214.2	86	1400	WCMA, WKBF, WLTH, KOCW, WBAA
212.6	87	1410	KGRS, WDAG, KFLY, WHBL
211.1	88	1420	KFIS, KFUQ, KORE, KGGC, KFYO
209.7	89	1430	WMBG, WNER, WCAH, WHP
208.2	90	1440	WMBD, WTAD, WNRC, WOKO, WHEC-WABO
206.8	91	1450	WTFI, WFJC, WCSO, KTBS
205.4	92	1460	KSTP, WJSV
204.0	93	1470	KFJF, WKBW, WRUF
202.6	94	1480	WJAZ, WORD, WSOA, WCKY
201.2	95	1490	WLAC, WTNT
199.9	96	1500	KUJ, KPJM, KGKB, KGFI, WEHS

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VA. 3178, 3179

Los Angeles, Calif.

WHOLESALE

Largest Radio Parts Jobber West of Chicago

Channel and Kilocycle Listing

TIME AND POWER LIMITATIONS

D—Daytime.
 LS—Power until local sunset.
 LT—Limited Time.
 LP—Limited Power.
 CP—Construction Permit authorized.
 For location of transmitter see alphabetical list.

CHANNEL No. 1



550 Kcys., 545.1 Meters

KFDY	LS1000 watts	Brookings, S. D.	S. D. State College
KFUO	LS1000 watts	Clayton, Mo.	Evangelical Lutheran Synod
KFYR	500 watts	Bismark, N. D.	Hoskins-Meyer
KOAC	1000 watts	Corvallis, Ore.	Oregon State Agrl. College
KSD	500 watts	St. Louis, Mo.	Pulitzer Publishing Co.
WGR	1000 watts	Amherst, N. Y.	Radio Station WGR, Inc.
WKRC	500 watts	Cincinnati, Ohio	Kodel Electric & Mfg. Co.

CHANNEL No. 2



560 Kcys., 535.4 Meters

KFDM	LS1000 watts	Beaumont, Texas	Magnolia Petroleum Co.
KLZ	1000 watts	Denver, Colo.	Reynolds Radio Co., Inc.
KTAB	1000 watts	Oakland, Calif.	Associated Broadcasters
WEBW	LT500 watts	Beloit, Wis.	Beloit College
WFI	500 watts	Philadelphia, Pa.	Strawbridge & Clothier
WIBO	LS1500 watts	Chicago, Ill.	Nelson Bros. Bond & Mortgage Co.
WLIT	500 watts	Philadelphia, Pa.	Lit Brothers
WNOX	LS2000 watts	Knoxville, Tenn.	Sterchi Brothers Stores, Inc.
WFCC	500 watts	Chicago, Ill.	North Shore Cong. Church

CHANNEL No. 3



570 Kcys., 526.0 Meters

KGKO	LS500 watts	Wichita Falls, Tex.	Wichita Falls Broadcasting Co.
KMTR	500 watts	Hollywood, Calif.	KMTR Radio Corp.
KUOM	500 watts	Missoula, Mont.	State University of Montana
KXA	500 watts	Seattle, Wash.	American Radio Tel. Co.
WEAO	750 watts	Columbus, Ohio	Ohio State University
WKBN	500 watts	Youngstown, Ohio	W. P. Williamson, Jr.
WMAC	250 watts	Cazenovia, N. Y.	Clive B. Meredith
WMCA	500 watts	New York, N. Y.	Knickerbocker Brdcstg. Co., Inc.
WNAX	1000 watts	Yankton, S. D.	Gurney Seed & Nursery Co.
WNYC	500 watts	New York, N. Y.	City of N. Y. Dept. Plant & Struc.
WSYR	250 watts	Syracuse, N. Y.	Clive B. Meredith
WWNC	1000 watts	Asheville, N. C.	Citizens Broadcasting Co.

CHANNEL No. 4



580 Kcys., 516.9 Meters

(CANADIAN SHARED)

KGFX	D200 watts	Pierre, S. D.	Dana McNeill
KSAC	LS1000 watts	Manhattan, Kans.	Kansas State Agrl. College
WORU	250 watts	Near Charleston, W. Va.	Charleston Radio Bdcstg. Co.
WSAZ	250 watts	Huntington, W. Va.	WSAZ, Inc.
WSUI	500 watts	Iowa City, Iowa	State University of Iowa
WTAG	250 watts	Worcester, Mass.	Worcester Telegram Pub. Co., Inc.

CHANNEL No. 5



590 Kcys., 508.2 Meters

KHQ	1000 watts	Spokane, Wash.	Louis Wasmer, Inc.
WCAJ	500 watts	Lincoln, Nebr.	Nebraska Wesleyan Univ.
WEEL	1000 watts	Weymouth, Mass.	Edison Elec. Illum. Co. of Boston
WEMC	D1000 watts	Berrien Springs, Mich.	Emmanuel Missionary College
WOW	1000 watts	Omaha, Nebr.	W. O. W. Life Ins. Assn.

“DX” Reception

By K. G. Ormiston

“DX” is an expression borrowed from wireless telegraphy, and signifies “long distance.” Listening to a broadcast station which is several hundred miles or more distant is considered DX reception, and is one of the most fascinating phases of radio.

The ability to pick up distant stations is dependent upon many factors. Three of these factors are inherent qualities of the receiver itself, namely—sensitivity, selectivity and volume.

Sensitivity

The sensitivity of a radio receiver is a measurement of its ability to respond to very weak signals. Sensitivity is measured in terms of microvolts per meter, and when a manufacturer states that his set has a sensitivity of 5 microvolts per meter, it is meant that the set will give the standard normal output when operated in a signal field strength which will give the set an input of 5 microvolts per meter. Less microvolts per meter means a greater set sensitivity.

The sensitivity of practically all the modern sets is such that the noise level is reached even on the quietest nights, hence it is safe to assume that nearly all receivers are capable of playing a great amount of distant stations, providing the other limiting factors are equally favorable. A regenerative detector with two stages of audio amplification behind it, would play stations across the continent, just as it did in the old days were it not for the fact that the modern broadcasting congestion requires far greater selectivity than the three-tube possesses. The sensitivity is there, but it avails not because one or two powerful nearby stations will cover the entire tuning range.

Selectivity

Hence sensitivity can not be considered as an individual factor, but must be in combination with selectivity. Selectivity is the ability of a set to confine all stations to a narrow space on the dial, the ideal condition being when each station covers a maximum dial space of ten kilocycles. Under these circumstances there would be no overlapping of stations in adjoining

channels, either distant or local. This condition is not obtained in the factory-built modern radio receivers, but an effort is made to approximate it without too greatly impairing tone quality. Here again we find that selectivity cannot be considered as an individual factor. Since it has a direct bearing on tone quality, a compromise must be made between the two. It is obvious that the design of a radio receiver requires good judgment as well as engineering skill, since these vital factors are interrelated in such a way that a compromise between them must be chosen which will result in maintaining the maximum tone fidelity commensurate with a reasonable distance range.

Volume

Assuming that a given radio receiver has sufficient sensitivity to respond to a very weak signal from a distance, and that the selectivity is sufficient to permit tuning in distant stations in the gaps between the local stations on the dial, we next require that the set has sufficient audio amplification to build up these weak signals to good loud speaker strength, so that the distant stations will be easily audible. This factor, volume, is usually present when some of the other factors are not, so we may well dismiss it without further discussion.

With a receiver possessing all of the above qualities nicely blended, we find that the other vital factors in DX reception are (1) Installation, antenna and ground; (2) Noise level, electrical interference; (3) Tuning skill and patience.

Installation

The installation of the set frequently ruins the DX possibilities which the manufacturer has very carefully built into it. The antenna and ground are very often exceedingly makeshift in nature, and constitute the real hindrance to distance reception. We often hear the question, “Why can’t I get distance, when so-and-so with the same make of set gets the whole country?” And almost invariably the fault lies with a poor antenna and ground installation. If the set owner desires the maximum

(Continued on Page 34)

CHANNEL No. 6

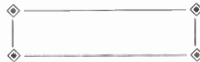


600 Kcys., 499.7 Meters

(CANADIAN SHARED)

KFSD	LS1000 watts	San Diego, Calif.....	Airfan Radio Corp.
WCAC	250 watts	Storrs, Conn.....	Connecticut Agri. College
WCAO	250 watts	Baltimore, Md.....	Monumental Radio, Inc.
WMT	250 watts	Waterloo, Iowa.....	Waterloo Brdcstg. Co.
WOAN	500 watts	Lawrenceburg, Tenn.....	James D. Vaughan
WREC	LS1000watts	Whitehaven, Tenn.	WREC, Inc.

CHANNEL No. 7



610 Kcys., 491.5 Meters

KFRC	1000 watts	San Francisco, Calif.....	Don Lee, Inc.
WDAF	1000 watts	Kansas City, Mo.....	Kansas City Star Co.
WFAN	500 watts	Philadelphia, Pa.....	Keystone Brdcstg. Co.
WIP	500 watts	Philadelphia, Pa.....	Gimbel Bros., Inc.
WOQ	1000 watts	Kansas City, Mo.....	Unity School of Christianity

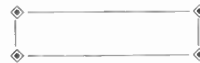
CHANNEL No. 8



620 Kcys., 483.6 Meters

KFAD	1000 watts	Phoenix, Ariz.....	Electrical Equipment Co.
KGW	1000 watts	Portland, Ore.....	Oregonian Publishing Co.
WDAE	1000 watts	Tampa, Fla.....	Tampa Pub. Co.
WDBO	1000 watts	Orlando, Fla.....	Rollins College, Inc.
WFLA-WSUN	2500 w	Clearwater, Fla.....	Clearwater & St. Petersburg C. of C.
WJAY	D500 watts	Cleveland, Ohio.....	Cleveland Radio Brdcstg. Corp.
WLBZ	LS500 watts	Bangor, Maine.....	Maine Broadcasting Co., Inc.
WTMJ	LS2500 watts	Brookfield, Wis.....	Journal Co. (Milwaukee Journal)

CHANNEL No. 9

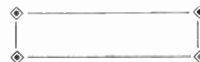


630 Kcys., 475.9 Meters

(CANADIAN SHARED)

KFEL	250 watts	Denver, Colo.....	Eugene P. O'Fallen, Inc.
KFRU	500 watts	Columbia, Mo.....	Stephens College
KFXF	250 watts	Denver, Colo.....	Pikes Peak Brdcstg. Co., Inc.
WGBF	500 watts	Evansville, Ind.....	Evansville on the Air, Inc.
WMAL	LS500 watts	Washington, D. C.....	M. A. Leese
WOS	LS1000 watts	Jefferson City, Mo.....	Missouri State Mktg. Bureau

CHANNEL No. 10



640 Kcys., 468.5 Meters

KFI	5000 watts	Los Angeles, Calif.....	Earle C. Anthony, Inc.
WAIU	LT500 watts	Columbus, Ohio.....	American Insurance Union
WOI	D5000 watts	Ames, Iowa.....	Iowa State College of Agri.

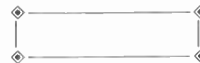
CHANNEL No. 11



650 Kcys., 461.3 Meters

WSM	5000 watts	Nashville, Tenn.....	National Life & Acc. Ins. Co.
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CHANNEL No. 12



660 Kcys., 454.3 Meters

WAAW	D500 watts	Omaha, Nebr.....	Omaha Grain Exchange
WEAF	LP50000 watts	New York, N. Y.....	National Brdcstg. Co., Inc.

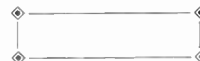
CHANNEL No. 13



670 Kcys., 447.5 Meters

WMAQ	5000 watts	Chicago, Ill.....	Chicago Daily News, Inc.
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CHANNEL No. 14



680 Kcys., 440.9 Meters

KFEQ	D2500 watts	St. Joseph, Mo.....	Scroggin & Co. Bank
KPO	5000 watts	San Francisco, Calif.....	Hale Bros. & The Chronicle
WPTF	LT1000 watts	Raleigh, N. C.....	Durham Life Ins. Co.

IT'S SO EASY TO OWN A SPARTON

● You have made up your mind to own a Sparton, some time. You never will feel that you have the best that money can buy in Radio until you have a Sparton.

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And what a wealth of enjoyment these few dollars buy! Modern Radio at the very peak of its perfection . . . the greatest musicians, the greatest music of all times to entertain you . . . great statesmen, great teachers, to inform and instruct you . . . the season's greatest sports events, just ahead.

Go tomorrow to any Sparton dealer and learn how delightfully easy it is to own a SPARTON.

Make This A Radio Christmas

Make this a Radio Christmas. In a gift for your home concentrate on the most magnificent gift you can give your family . . . a SPARTON radio. Sparton brings to you modern radio at its very best. Tone beauty and fidelity which are a heritage from the old masters; selectivity, sensitivity, modulation, which make your Sparton an instrument as flexible, as responsive to your every mood as a fine old Stradivarius, in the hands of a virtuoso. And this marvelous new Master of the Air is so easy to own. See your Sparton dealer, hear the Sparton, tomorrow.



"... don't you buy a radio until you have heard a Sparton." Walter McAdigan



SPARTON

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Walter McAdigan, PRESIDENT,

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RADIO

Sparton presents Joseph Diskay, famous Hungarian tenor, each Tuesday and Friday evening, at 8:30, over KFI.

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*Trade Away from Downtown
Congestion*

3990 So. Vermont Ave. VE. 3143

OLDEST DOWNTOWN DEALER

Birch-Smith Furniture Co

737-41 Hill St. Near 8th

See Page 46 for Special Announcement

TRinity 4121

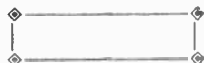
Los Angeles

CHANNEL No. 15



690 Kcys., 434.5 Meters

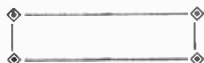
CHANNEL No. 16



700 Kcys., 428.3 Meters

WLW LP50000 watts Cincinnati, Ohio.....Crosley Radio Corp.

CHANNEL No. 17



710 Kcys., 422.3 Meters

KEJK LT500 watts Beverly Hills, Calif.....R. S. MacMillan
WHB D500 watts Kansas City, Mo.....Sweeny Auto Schools Co.
WOR 5000 watts Newark, N. J.....L. Bamberger & Co.

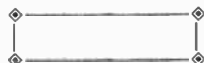
CHANNEL No. 18



720 Kcys., 416.4 Meters

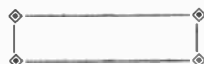
WGN-WLIB 25000 w. Chicago, Ill.....The Tribune Co.

CHANNEL No. 19



730 Kcys., 410.7 Meters

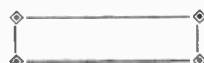
CHANNEL No. 20



740 Kcys., 405.2 Meters

KMMJ LT1000 watts Clay Center, Nebr.....The M. M. Johnson Co.
WSB CP5000 watts Atlanta, Ga.....Atlanta Journal Co.

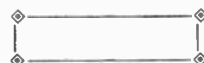
CHANNEL No. 21



750 Kcys., 399.8 Meters

WJR 5000 watts Detroit, Mich.....WJR, the Goodwill Station, Inc.

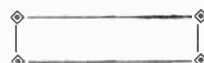
CHANNEL No. 22



760 Kcys., 394.5 Meters

KJR LT5000 watts Seattle, Wash.....Ralph A. Horr
WEW D1000 watts St. Louis, Mo.....St. Louis University
WJZ LP30000 watts New York, N. Y.....Radio Corp. of America

CHANNEL No. 23



770 Kcys., 389.4 Meters

KFAB 5000 watts Lincoln, Nebr.....Nebraska Buick Automobile Co.
WBBM-WJBT CP25000 watts Chicago, Ill.....The Atlass Co., Inc.

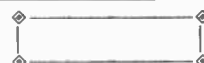
CHANNEL No. 24



780 Kcys., 384.4 Meters

KELW 500 watts Burbank, Calif.....Earl L. White
KTM 1000 watts Los Angeles, Calif.....Pickwick Brdcstg. Corp.
WEAN LS500 watts Providence, R. I.....Shepard Stores Co.
WMC LS1000 watts Memphis, Tenn.....Memphis Comm. Appeal, Inc.
WTAR-WPOR 500 w. Norfolk, Va.....WTAR Radio Corp.

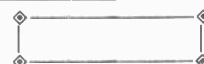
CHANNEL No. 25



790 Kcys., 379.5 Meters

KGO 7500 watts Oakland, Calif.....General Electric Co.
WGY 50000 watts S. Schenectady, N. Y.....General Electric Co.

CHANNEL No. 26



800 Kcys., 374.8 Meters

WBAP 50000 watts Ft. Worth, Texas.....Carter Publications, Inc.
WFAA CP50000 watts Dallas, Texas.....The Dallas News & Dallas Journal

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IT ISN'T A
MAGNAVOX
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DYNAMIC**

(With a bow to Kodak)



Only Magnavox can build and sell DYNAMIC Speakers; by authority of the United States Patent Office. ✕ Only Magnavox customers and dealers can employ the selling force inherent in that

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Westmore 5395

Los Angeles

G M
DAY-FAN
RADIO

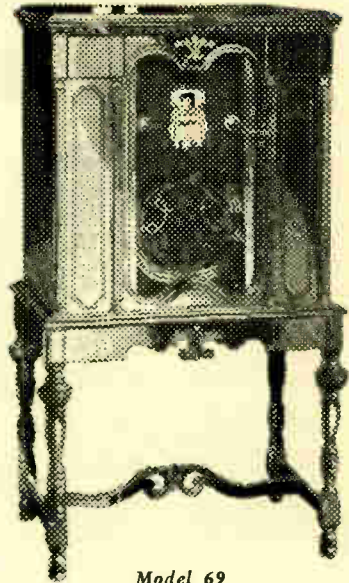
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Unexcelled
Service

Day-Fan dealers are giving special demonstrations of the Day-Fan Radio, which is now being manufactured by the General Motors Radio Corporation. We urge you to visit your nearest Day-Fan dealer—because you will find in the Day-Fan those qualities which discriminating radio buyers are now demanding.

You will be impressed by its natural tone. You will be surprised by its exceptional selectivity and range. You will enjoy its ability to provide ample volume without distortion, and you will find a variety of cabinet designs to meet your individual preference.



Model 69

Model 69	\$226.50
Consolette	149.50
Model 68	159.50
Model 72	169.50
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Combination	289.50

All with Tubes

G. M. A. C. Finance Terms

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Southern California Distributor

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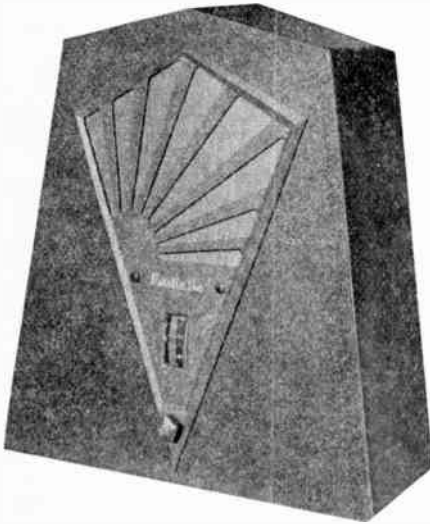
1125 Wall St.

WEStmore 5395

Los Angeles

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COMPLETE

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A MASTERPIECE of expert engineering and designing, produced by veteran radio engineers and master craftsmen.

Beautiful cabinet, of modernistic motif, designed by a well known sculptor.
**ALL ELECTRIC ALL METAL
PERFECTLY SHIELDED—
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PHONE FOR NAME
OF YOUR
NEAREST DEALER

DEALERS! We are now ready to supply you. Territory is rapidly being allotted. Phone or write

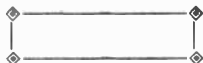
Keller-Fuller Mfg. Co.

1573 West Jefferson

Los Angeles, Calif.

EMpire 3638

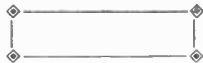
CHANNEL No. 27



810 Kcys., 370.2 Meters

WCCO CP15000 watts Minneapolis, Minn..... Washburn-Crosby Co., Inc.
 WPCB D500 watts New York, N. Y..... Eastern Broadcasters, Inc.

CHANNEL No. 28



820 Kcys., 365.6 Meters

WHAS CP1000 watts Louisville, Ky... Courier Journal & Louisville Times

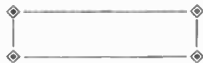
CHANNEL No. 29



830 Kcys., 361.2 Meters

KOA 12500 watts Denver, Colo..... General Electric Co.
 WHDH D1000 watts Gloucester, Mass..... Matheson Radio Co., Inc.

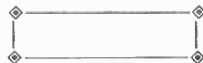
CHANNEL No. 30



840 Kcys., 356.9 Meters

(CANADIAN EXCLUSIVE)

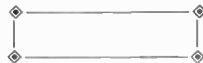
CHANNEL No. 31



850 Kcys., 352.7 Meters

KWKH 10000 watts Kennonwood, La..... W. K. Henderson
 WWL 5000 watts New Orleans, La..... Loyola University

CHANNEL No. 32



860 Kcys., 348.6 Meters

KFQZ LT250 watts Los Angeles, Calif... Taft Radio & Brdcastg. Co., Inc.
 WAUC-WROQ 5000 w New York, N. Y..... Atlantic Broadcasting Corp.

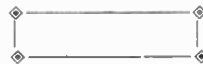
CHANNEL No. 33



870 Kcys., 344.6 Meters

WENR-WBCN LP50000 watts Chicago, Ill..... Great Lakes Broadcasting Co.
 WLS 5000 watts Chicago, Ill..... Agricultural Broadcasting Co.

CHANNEL No. 34

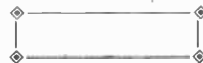


880 Kcys., 340.7 Meters

(CANADIAN SHARED)

KFKA LS1000 watts Greeley, Colo..... Colorado State Teachers College
 KIX 500 watts Oakland, Calif..... The Tribune Pub. Co.
 KPOF 500 watts Denver, Colo..... Pillar of Fire, Inc.
 WCOC LS500 watts Meridian, Miss..... Crystal Oil Co.
 WGBI 250 watts Scranton, Pa..... Scranton Broadcasters, Inc.
 WQAN 250 watts Scranton, Pa..... Scranton Times

CHANNEL No. 35

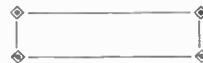


890 Kcys., 336.9 Meters

(CANADIAN SHARED)

KFNF LS1000 watts Shenandoah, Iowa..... Henry Field Seed Co.
 KGFJ 250 watts Little Rock, Ark..... First Church of the Nazarene
 KUSD LS750 watts Vermillion, S. D..... University of South Dakota
 WGST LS500 watts Atlanta, Ga..... Georgia School of Technology
 WILL LS500 watts Urbana, Ill..... University of Illinois
 WJAR LS400 watts Providence, R. I..... The Outlet Co.
 WKAQ 500 watts San Juan, P. R..... Radio Corp. of Porto Rico
 WMAZ LS500 watts Macon, Ga..... Macon Junior Chamber of Commerce
 WMMN LS500 watts Fairmont, W. Va..... Holt-Rowe Novelty Co.

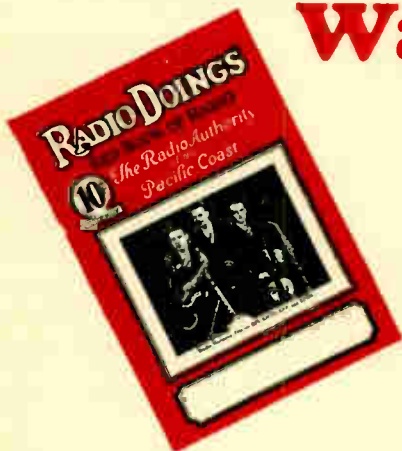
CHANNEL No. 36



900 Kcys., 333.1 Meters

KGBU 500 watts Ketchikan, Alaska.. Alaska Radio & Service Co., Inc.
 KHJ 1000 watts Los Angeles, Calif..... Don Lee, Inc.
 KSEI 250 watts Pocatello, Idaho..... KSEI Brdcastg. Assn., Inc.
 WFBI 750 watts Syracuse, N. Y..... The Onondaga Co., Inc.
 WKY 1000 watts Oklahoma City, Okla..... WKY Radiophone Co.
 WLBL CP D3000 w Stevens Point, Wis..... Wisconsin Dept. of Markets
 WMAK 750 watts Buffalo, N. Y..... WMAK Brdcastg. System, Inc.

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CHANNEL No. 37



910 Kcys., 329.5 Meters

CHANNEL No. 38



920 Kcys., 325.9 Meters

KPRC	CP2500 watts	Houston, Texas.....	Houston Printing Co.
KVI	LT1000 watts	Seattle, Wash.....	Puget Sound Broadcasting Co., Inc.
WAAF	D500 watts	Chicago, Ill.....	Drovers Journal Pub. Co.
WBSO CP	D250 watts	Babson Park, Mass....	Babson's Statistical Orgn., Inc.
WWJ	1000 watts	Detroit, Mich.....	The Evening News Assn.

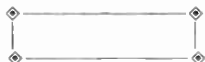
CHANNEL No. 39



930 Kcys., 322.4 Meters

KFWI	500 watts	San Francisco, Calif.....	Radio Entertainments, Inc.
KFWM	500 watts	Oakland, Calif.....	Oakland Educational Society
KGBZ	LS1000 watts	York, Nebr.....	Dr. George R. Miller
KMA	LS1000 watts	Shenandoah, Iowa.....	May Seed & Nursery Co.
WBRC	LS1000 watts	Birmingham, Ala.....	Birmingham Brdestg. Co., Inc.
WDBJ	LS500 watts	Roanoke, Va.....	Richardson-Wayland Elec. Corp.
WIBG	D50 watts	Elkins Park, Pa.....	St. Paul's P. E. Church

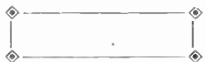
CHANNEL No. 40



940 Kcys., 319.0 Meters

KGU	500 watts	Honolulu, T. H. M. A.	Mulrony & Adv. Pub. Co., Ltd.
KOIN	1000 watts	Portland, Ore.....	KOIN, Inc.
WCSH	500 watts	Portland, Maine.....	Congress Square Hotel Co.
WFIW	1000 watts	Hopkinsville, Ky.....	The Acme Mills, Inc.
WHA	D750 watts	Madison, Wis.....	University of Wisconsin

CHANNEL No. 41



950 Kcys., 315.6 Meters

KFWB	1000 watts	Hollywood, Calif.....	Warner Bros. Brdestg. Corp.
KGHL	500 watts	Billings, Mont....	Northwestern Auto Supply Co., Inc.
KMBC	1000 watts	Kansas City, Mo.....	Midland Auto Supply Co., Inc.
WRC	500 watts	Washington, D. C.....	Radio Corp. of America

CHANNEL No. 42



960 Kcys., 312.3 Meters

CHANNEL No. 43



970 Kcys., 309.1 Meters

KOMO	1000 watts	Seattle, Wash.....	Fisher's Blend Station, Inc.
WCFL	LT1500 watts	Chicago, Ill.....	Chicago Federation of Labor

CHANNEL No. 44



980 Kcys., 305.9 Meters

KDKA	LP50000 watts	Saxonburg, Pa.....	Westinghouse Elec. & Mfg. Co.
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CHANNEL No. 45



990 Kcys., 302.8 Meters

WBZ	15000 watts	Springfield, Mass.....	Westinghouse Elec. & Mfg. Co.
WBZA	500 watts	Boston, Mass.....	Westinghouse Elec. & Mfg. Co.

CHANNEL No. 46



1000 Kcys., 299.8 Meters

KFVD	LT250 watts	Culver City, Calif.....	Auburn-Fuller Co.
WHO	5000 watts	Des Moines, Iowa.....	Bankers Life Co.
WOC	5000 watts	Davenport, Iowa.....	Palmer School of Chiropractic

The graphic features the word "EDISON" at the top and "RADIO" at the bottom in large, bold, black-outlined letters. In the center, a stylized illustration of a radio set is shown with numerous radiating lines emanating from a central point, creating a starburst effect. A diagonal banner across the middle reads "FLASH! THERE'S YOUR STATION" in a handwritten-style font. Another banner, tilted upwards to the right, reads "LIGHT-O-MATIC" in a bold, sans-serif font. The word "EDISON" is also visible in smaller letters on the front panel of the radio set illustration.

EDISON LIGHT-O-MATIC FLASH! THERE'S YOUR STATION RADIO

The years which produced the electric light, the motion picture, and the phonograph, supplied the knowledge from which has come the new Edison Light-O-Matic Radio. Great is its name, great is its heritage, great is the set itself. For here, at last, is dependable radio . . . radio from which the guess is gone . . . radio flawless in performance,

mighty in its ability to conquer distance, and beautiful in tone.

. . . To these has been added ease of operation through Light-O-Matic Tuning. With Light-O-Matic Tuning you capture your favorite stations, dramatically signalled by a flash of light . . . all stations plainly announced before your eyes. Quick, effortless . . . and accurate.

The New EDISON Radios

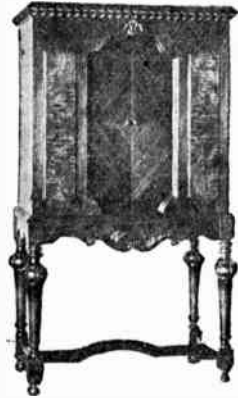
with LIGHT-O-MATIC Tuning



MODEL R-5

Handsome console. Beautiful walnut finish, with matched butt walnut pilasters and sliding doors. Relieved with birdseye maple. Phonograph jack. Complete with tubes,

\$196.50



MODEL R-4

Rich, dignified console bearing impress of world's finest artistry. Blended walnut finish with quarter matched sliding doors. Carved mouldings and ornaments. Phonograph jack. Complete with tubes,

\$227.50

Wonderful combination of all-electric radio and phonograph in a massive studio cabinet. Edison electric pick-up...automatic stop that operates *without setting*, on ALL makes of records. Complete with tubes,

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The new Edison Radio is the first and only receiver which Thomas A. Edison considers worthy to bear his name. This name is your assurance of PERFECTED RADIO. So look for the name "Thomas A. Edison" stamped in bronze on the panel of every Edison Radio. It is the greatest name in science. It is the greatest name in radio.

To you it means tonal purity, keener selectivity over the entire dial range, more exquisite cabinetry. Hear and see the new Edison Radio at the nearest Edison dealer. No obligation. A small payment will reserve yours for Christmas delivery.

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WARE *Electric*

*and be convinced as to the best in tone quality
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Ware Electric radios offer perfect reception to the entire broadcast band without distortion. It gives you that faithfulness in radio reception secured only by reproduction of over-tones. These are the sound waves that give any voice or musical note its distinctive quality. Over-tones do not mean loudness, but naturalness. Naturalness in reproduction is good tone. When you have good tone you are not aware of the reproduction coming from a radio set, but the effect is as if the artist or orchestra was truly in your presence.

To be convinced get a demonstration on the new Ware Electric. You will then recognize this difference instantly.

A choice of beautiful consoles, any of which will lend distinction to your home, including an antique English cabinet of most unusual appeal designed by Orsenigo.



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Carl A. Stone Company

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407 E. Pico St.

WEstmore 8992

Los Angeles

CHANNEL No. 47

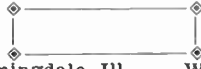


1010 Kcys., 296.9 Meters

(CANADIAN SHARED)

KGGF	500 watts	Picher, Okla.....	D. L. Connell, M.D.
KQW	500 watts	San Jose, Calif.....	First Baptist Church
WHN	250 watts	New York, N. Y.....	Marcus Loew Booking Agency
WNAD	500 watts	Norman, Okla.....	University of Oklahoma
WQAO-WPAP	250 w.	New York, N. Y.....	Calvary Baptist Church
WRNY	250 watts	New York, N. Y.....	Aviation Radio Station, Inc.

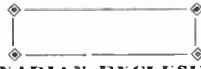
CHANNEL No. 48



1020 Kcys., 293.9 Meters

KYW-KFKX	5000 w.	Bloomington, Ill.....	Westinghouse Elec. & Mfg. Co.
KYWA	500 watts	Chicago, Ill.....	Westinghouse Elec. & Mfg. Co.
WRAX	D250 watts	Philadelphia, Pa.....	Berachah Church, Inc.

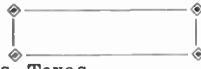
CHANNEL No. 49



1030 Kcys., 291.1 Meters

(CANADIAN EXCLUSIVE)

CHANNEL No. 50



1040 Kcys., 288.3 Meters

KRLD	10000 watts	Dallas, Texas.....	KRLD, Inc.
KTHS	10000 watts	Hot Springs Nat. Park, Ark.....	Hot Springs C. of C.
WKAR	D10000 watts	East Lansing, Mich.....	Michigan State College
WKEN	LT10000 watts	Buffalo, N. Y.....	Radio Station WKEN, Inc.

CHANNEL No. 51



1050 Kcys., 285.5 Meters

KFKB	5000 watts	Milford, Kans.....	John R. Brinkley, M.D.
KNX	5000 watts	Hollywood, Calif.....	Western Broadcasting Co.

CHANNEL No. 52



1060 Kcys., 282.8 Meters

KWJJ	LT5000 watts	Portland, Ore.....	Wilbur Jerman
WBAL	10000 watts	Baltimore, Md.....	Cons. Gas, Elec. Lt. & Power Co.
WJAG	LT10000 watts	Norfolk, Nebr.....	Norfolk Daily News.
WTIC	LP50000 watts	Avon, Conn.....	Travelers Brdcastg. Service Corp.

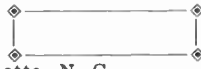
CHANNEL No. 53



1070 Kcys., 280.2 Meters

KJBS	D100 watts	San Francisco, Calif.....	Julius Brunton & Sons Co.
WAAT	D3000 watts	Jersey City, N. J.....	Bremer Brdcastg. Corp.
WCAZ	D500 watts	Carthage, Ill.....	Carthage College
WDZ	D1000 watts	Tuscola, Ill.....	James L. Bush
WEAR	1000 watts	Cleveland, Ohio.....	WTAM & WEAR, Inc.
WTAM	CP50000 watts	Cleveland, Ohio.....	WTAM & WEAR, Inc.

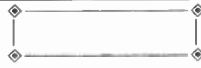
CHANNEL No. 54



1080 Kcys., 277.6 Meters

WBT	5000 watts	Charlotte, N. C.....	WBT, Inc.
WCBD	LT50000 watts	Zion, Ill.....	Wilbur Glenn Voliva
WMBI	LT50000 watts	Chicago, Ill.....	The Moody Bible Inst. Radio Station

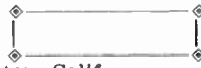
CHANNEL No. 55



1090 Kcys., 275.1 Meters

KMOX-KFQA	CP50000 watts	St. Louis, Mo.....	Voice of St. Louis, Inc.
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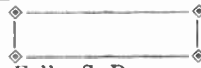
CHANNEL No. 56



1100 Kcys., 272.6 Meters

KGDM	D500 watts	Stockton, Calif.....	E. F. Peffer
WLWL	5000 watts	New York.....	Missionary Soc. of St. Paul the Apostle
WPG	5000 watts	Atlantic City, N. J.....	Municipality of Atlantic City

CHANNEL No. 57



1110 Kcys., 270.1 Meters

KSOO	1000 watts	Sioux Falls, S. D.....	Sioux Falls Brdcastg. Assn.
WRVA	CP50000 watts	Richmond, Va.....	Larus & Bro. Co., Inc.

New Actual Size
4 1/4 inches high
Magic Device
**RADIO
OWL**

*Automatically turns off your
Radio, Household Appliances.
Simply plug in light socket.
Saves light bills, batteries and
tubes*



RADIO OWL SAVES LIGHT BILLS, TUBES, BATTERIES

Now you can leave your radio playing when you go to bed. This magic sentinel turns it off silently, automatically, after you're asleep. Eliminates all shut-off worries. Saves light bills, batteries, tubes from useless wear—quickly pays for itself.

Install Radio Owl in a second—simply plug into light socket. New, improved construction throughout. Practically indestructible. Will outlast your radio—nothing to get out of order. Operates on any make radio, battery or A. C.

Radio Owl also turns off any electric household appliance—night lights, irons, pads, washing machines, etc. Simply press Owl's head down to start current and set shut-off time. Radio Owl turns off current at any desired time to 2 hours.

Finished in two colors, bronze and antique bronze, this dependable sentinel is an attractive home ornament.

Your nearest dealer has the new improved Radio Owl. See it TODAY. If he is out of stock, send check for \$5.00. We ship post-paid.

RADIO OWL \$5.00 Complete

Manufactured by
TAYLOR-TRAVERS CORPORATION, LTD.

2269 E. 51st St.

Los Angeles, Calif.

LAfayette 9866

CHANNEL No. 58



1120 Kcys., 267.7 Meters

(CANADIAN SHARED)

KFSG 500 watts	Los Angeles, Calif.....	Echo Park Evang. Assn.
KMIC 500 watts	Inglewood, Calif.....	Daltons, Inc.
KRSC D500 watts	Seattle, Wash.....	Radio Sales Corp.
KUT 500 watts	Austin, Texas.....	KUT Broadcasting Co.
WCOA 500 watts	Pensacola, Fla.....	City of Pensacola, Fla.
WDEL LS350 watts	Wilmington, Del.....	WDEL, Inc.
WHAD 250 watts	Milwaukee, Wis.....	Marquette University
WISN 250 watts	Milwaukee, Wis.....	Evening Wisconsin Co.
WTAW 500 watts	College Station, Tex.....	Agri. & Mech. College of Texas

CHANNEL No. 59



1130 Kcys., 265.3 Meters

KSL 5000 watts	Salt Lake City, Utah....	Radio Service Corp. of Utah
WJJD LT20000 watts	Mooseheart, Ill.....	Loyal Order of Moose
WOV D1000 watts	New York, N. Y.....	International Brdcastg. Corp.

CHANNEL No. 60



1140 Kcys., 263.0 Meters

KVOO 5000 watts	Tulsa, Okla.....	Southwestern Sales Corp.
WAPI 5000 watts	Birmingham, Ala.....	Alabama Polytechnic Inst.

CHANNEL No. 61



1150 Kcys., 260.7 Meters

WHAM 5000 watts	Rochester, N. Y.....	Stromberg-Carlson Tel. Mfg. Co.
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CHANNEL No. 62



1160 Kcys., 258.5 Meters

WOWO 10000 watts	Ft. Wayne, Ind.....	Main Auto Supply Co.
WWVA LS5000 watts	Wheeling, W. Va.....	West Virginia Brdcastg. Corp.

CHANNEL No. 63



1170 Kcys., 256.3 Meters

KTNT LT5000 watts	Muscatine, Iowa.....	Norman Baker
WCAU 10000 watts	Philadelphia, Pa.....	Universal Brdcastg. Co.

CHANNEL No. 64



1180 Kcys., 254.1 Meters

KEX 5000 watts	Portland, Ore.....	Western Brdcastg. Co.
KOB CP20000 watts	State College, N. M.....	N. M. Col. of Agri. & Mech. Arts
WDGY LT10000 watts	Minneapolis, Minn.....	Dr. Geo. W. Young
WGBS LT5000 watts	New York City.....	General Broadcasting System, Inc.
WHDI LT5000 watts	Minneapolis, Minn.....	Wm. Hood Dunwoody Ind. Inst.

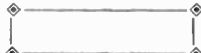
CHANNEL No. 65



1190 Kcys., 252.0 Meters

WICC D500 watts	Bridgeport, Conn....	Bridgeport Brdcastg. Station, Inc.
WOAI CP50000 watts	San Antonio, Texas.....	Southern Equipment Co.

CHANNEL No. 66



1200 Kcys., 249.9 Meters

KFHA 100 watts	Gunnison, Colo.....	Western State College of Colo.
KFJB 100 watts	Marshalltown, Ia.....	Marshall Electric Co., Inc.
KFWF 100 watts	St. Louis, Mo.....	St. Louis Truth Center, Inc.
KGCU 100 watts	Mandan, N. C.....	Mandan Radio Assn.
KGDE 50 watts	Fergus Falls, Minn.....	Jaren Drug Co.
KGDY 15 watts	Oldham, S. D.....	J. Albert Loesch
KGEK 50 watts	Yuma, Colo.....	Behler Electrical Equip. Co.
KGEW 100 watts	Ft. Morgan, Colo.....	City of Ft. Morgan
KGFK 50 watts	Hallock, Minn.....	R. W. Lautzenheiser & O. R. Mitchell
KGFJ 100 watts	Los Angeles, Calif.....	Ben S. McGlashan
KGHI CP100 watts	Little Rock, Ark.....	First Baptist Church

Faithful Reproduction

The vibrating song of the violin . . . the enlivening pulsation of the dance orchestra . . . the tuneful aria of the prima donna—these a radio should reproduce with unerring fidelity. It should bury its own personality entirely and relay the impressions exactly as they are heard in the broadcasting chamber.

This is the ideal that has been constantly held in mind by Falck engineers. And so they have originated or incorporated into the Falck features which help to deliver this exactness of tone. In the new Falck you will find:

1. Screen grid—for selectivity and sensitivity.
2. Power tubes—to increase power.
3. Push-Pull amplification—for fidelity of tone.
4. True dynamic speaker—for realism and tonal range.
5. One dial control — for ease of tuning.
6. Controlled regeneration—for volume.
7. Tuned antenna circuit—to prevent harmonics.

Falck Dealers will be pleased to give a FREE demonstration



\$129.50

(Complete with Tubes)

Price slightly higher outside of California



Falck - 53

SCREEN-GRID PLUS

Manufactured and Guaranteed by

ADVANCE ELECTRIC COMPANY 1260 W. Second St. Los Angeles, Calif.
Pioneer Manufacturers of Radio Equipment

CHANNEL No. 66—Cont.

1200 Kcys., 249.9 Meters

KGY	10 watts	Lacey, Wash.	St. Martin's College
KSMR	100 watts	Santa Maria, Calif.	Santa Maria Valley R. R. Co.
KVOS	100 watts	Bellingham, Wash.	KVOS, Inc.
KWVG	100 watts	Stockton, Calif.	Portable Wireless Tel. Inc.
KXO	100 watts	El Centro, Calif.	E. R. Irey & F. M. Bowles
WABI	100 watts	Bangor, Maine	First Universalist Church of Bangor
WABZ	100 watts	New Orleans, La.	Colliseum Place Baptist Church
WBBY	75 watts	Charleston, S. C.	Washington Light Infantry
WBBZ	100 watts	Ponca City, Okla.	C. L. Carrell
WCAT	100 watts	Rapid City, S. D.	S. D. State School of Mines
WCAX	100 watts	Burlington, Vt.	University of Vermont
WCLO	100 watts	Kenosha, Wis.	C. E. Whitmore
WCOD	100 watts	Harrisburg, Pa.	Norman R. Hoffman
WFBC	50 watts	Knoxville, Tenn.	First Baptist Church
WHBC	100 watts	Canton, Ohio	St. John's Catholic Church
WHBY	LT100 watts	West DePere, Wis.	St. Norbert College
WIAP	30 watts	Louisville, Ky.	American Brdcstg. Corp. of Kentucky
WIBX	LS300 watts	Utica, N. Y.	WIBX, Inc.
WIL	LS250 watts	St. Louis, Mo.	Missouri Brdcstg. Cor.
WJBC	100 watts	LaSalle, Ill.	Hummer Furniture Co.
WJBL	100 watts	Decatur, Ill.	Wm. Gushard Dry Goods Co.
WJBW	30 watts	New Orleans, La.	C. Carlson
WKJC	100 watts	Lancaster, Pa.	Kirk Johnson & Co.
WLBG	LS250 watts	Petersburg, Va.	Robert Allen Gamble
WMAY	LS250 watts	St. Louis, Mo.	Kingshighway Pres. Ch.
WNBO	100 watts	Washington, Pa.	John Brownlee Spriggs
WNBW	CP100 watts	Carbondale, Pa.	Home Cut Glass & China Co.
WNBX	10 watts	Springfield, Vt.	First Cong. Church Corp.
WORC	100 watts	Auburn, Mass.	A. F. Kleindienst
WRAF	100 watts	LaPorte, Ind.	The Radio Club, Inc.
WRBL	50 watts	Columbus, Ga.	Roy E. Martin
WVAE	100 watts	Hammond, Ind.	Hammond-Calumet Brdcstg. Corp.

CHANNEL No. 67

1210 Kcys., 247.8 Meters

(CANADIAN SHARED)

KDFN	CP100 watts	Casper, Wyoming	Donald Lewis Hathaway
KDLR	100 watts	Devils Lake, N. D.	Bert Wick & Harold Serungard
KFOR	LS100 watts	Lincoln, Nebr.	Howard A. Shuman
KFVS	100 watts	Cape Girardeau, Mo.	Hirsch Battery & Radio Co.
KFXM	100 watts	San Bernardino, Calif.	J. C. and E. W. Lee
KGCR	100 watts	Watertown, S. D.	Cutler's Radio Brdcstg. Serv., Inc.
KMJ	100 watts	Fresno, Calif.	The Fresno Bee
KPCB	50 watts	Seattle, Wash.	Pacific Coast Biscuit Co.
KPPC	50 watts	Pasadena, Calif.	Pasadena Presbyterian Church
KPQ	100 watts	Seattle, Wash.	Archie Taft & Louis Wasmer
KWEA	100 watts	Shreveport, La.	William E. Antony
WBAX	CP100 watts	Bear Creek, Pa.	John H. Stenger, Jr.
WCBS	100 watts	Springfield, Ill.	Chas. Messter & H. L. Dewing
WCOH	100 watts	Yonkers, N. Y.	Westchester Brdcstg. Corp.
WCRW	100 watts	Chicago, Ill.	Clinton R. White
WDWF-WLSI	100 w	Cranston, R. I.	D. W. Flint & Lincoln Studios, Inc.
WEBE	100 watts	Cambridge, Ohio	Roy W. Waller
WEDC	100 watts	Chicago, Ill.	Emil Denemark, Inc.
WEBK	100 watts	Harrisburg, Ill.	First Tr. & Sav. Bank of Harrisburg
WGBB	100 watts	Freeport, N. Y.	Harry H. Carman
WGCM	100 watts	Gulfport, Miss.	Gulfport Coast Music Co., Inc.
WHBF	100 watts	Rock Island, Ill.	Berdsey Specialty Co.
WHBU	100 watts	Anderson, Ind.	Citizens Bank
WIBA	100 watts	Madison, Wis.	Capital Times-Strand Theatre Station
WINR	100 watts	Bayshore, N. Y.	Radlote Mfg. Co., Inc.
WJBI	100 watts	Redbank, N. J.	Robert S. Johnson
WJBU	100 watts	Lewisburg, Pa.	Bucknell University
WJBY	50 watts	Gadsden, Ala.	Chas. J. Black
WJW	100 watts	Mansfield, Ohio	Mansfield Brdcstg. Asso.
WLCI	50 watts	Ithaca, N. Y.	Lutheran Assn. of Ithaca, N. Y.
WMAN	50 watts	Columbus, Ohio	W. E. Heskett
WMBG	100 watts	Richmond, Va.	Havens & Martin, Inc.
WMBR	100 watts	Tampa, Fla.	F. J. Reynolds
WOCL	25 watts	Jamestown, N. Y.	A. E. Newton
WOMT	100 watts	Manitowoc, Wis.	Francis M. Kadow
WPAW	100 watts	Pawtucket, R. I.	Shartenberg & Robinson Co.
WBBU	100 watts	Gastonla, N. C.	A. J. Kirby Music Co.
WRBQ	100 watts	Greenville, Miss.	J. Pat Scully
WSBC	100 watts	Chicago, Ill.	World Battery Co., Inc.
WSIX	100 watts	Springfield, Tenn.	Tire & Vulcanizing Co.
WTAX	50 watts	Streator, Ill.	Williams Hardware Co.
WTAZ	15 watts	Richmond, Va.	W. Reynolds, Jr., & T. J. McGuire



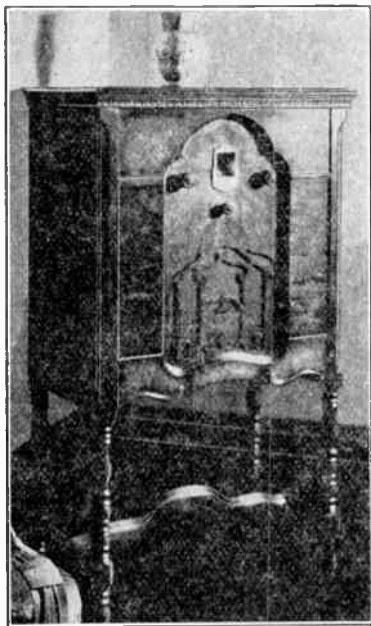
Presents

A RADIO DESIGNED ESPECIALLY TO
MEET WEST COAST CONDITIONS

New Sets With Amazing

VIBRA-CONTROL

Actually Engineered for Local Conditions



Model 25
Screen Grid Fada

An exceptionally high quality compact walnut console cabinet, with full visible front tuning panel of matched burl walnut. Decorative side panels, with special maple panels above and below. Dark brown walnut finish. \$172.00. Less Tubes.

The West Coast has its own radio receiver at last . . . sensitive . . . selective . . . embodying every important scientific advance, plus exclusive Vibra-Control . . . the complete control of all vibrations that reproduces programs exactly as broadcast FREE from distortion, interference and roars. The famous Fada laboratories did it . . . sending engineers to study radio reception in Los Angeles.

Vibra-Control has solved radio's most baffling problem . . . the complete control of all radio vibrations . . . only possible when Fada had so coordinated the receiver, speaker and console that all unwanted vibrations were eliminated and every musical shading was brought in clean-cut and clear—and that's the secret of true tone realism.

Hear Vibra-Control Today

Ask your Fada dealer to let you hear any of the new Fada radios and you'll discover tone realism impossible without Vibra-Control. For the address of your nearest Fada dealer call BEacon 1313.

So. Cal. and Arizona Distributor . . .

H. H. WALKER

1323 Venice Blvd.

Tel. BE 1313

CHANNEL No. 68

1220 Kcys., 245.8 Meters

KFKU	1000 watts	Lawrence, Kans.....	University of Kansas
WCAD	D500 watts	Canton, N. Y.....	St. Lawrence University
WCLE	500 watts	Pittsburgh, Pa.....	Kaufman & Baer Co., Inc.
WREN	1000 watts	Lawrence, Kans.....	Jenny Wren Co.

CHANNEL No. 69

1230 Kcys., 243.8 Meters

KFIO	D100 watts	Spokane, Wash.....	North Central High School
KFGD	100 watts	Anchorage, Alaska.....	Anchorage Radio Club
KGGM	LS500 watts	Albuquerque, N. M.....	New Mexico Brdcstg. Co.
WFBM	1000 watts	Indianapolis, Ind.....	Indianapolis Power & Light Co.
WNAC-WBIS	1000 w.	Boston, Mass.....	Shepard Norwell Co. (Shepard Stores)
WPSC	D500 watts	State College, Pa.....	The Penna. State College
WSBT	500 watts	South Bend, Ind.....	South Bend Tribune

CHANNEL No. 70

1240 Kcys., 241.8 Meters

KSAT	1000 watts	Ft. Worth, Tex.....	Texas Air Transport Brdcstg. Co.
WGHP	750 watts	Detroit, Mich.....	American Broadcasting Corp.
WJAD	1000 watts	Waco, Tex.....	Frank P. Jackson
WQAM	1000 watts	Miami, Fla.....	Miami Broadcasting Co.

CHANNEL No. 71

1250 Kcys., 239.9 Meters

KFMX	1000 watts	Northfield, Minn.....	Carleton College
KFOX	1000 watts	Long Beach, Calif.....	Nichols & Warinner, Inc.
KIDO	1000 watts	Boise, Idaho.....	Boise Broadcast Station
WAAM	LS2000 watts	Newark, N. J.....	WAAM, Inc.
WCAL	1000 watts	Northfield, Minn.....	St. Olaf College
WDSU	1000 watts	New Orleans, La.....	Joseph H. Uhalt
WGCP	250 watts	Newark, N. J.....	May Radio Broadcast Corp.
WLB-WGMS	500 w.	Minneapolis, Minn.....	University of Minn.
WODA	1000 watts	Paterson, N. J.....	Richard E. O'Dea
WRHM	1000 watts	Minneapolis, Minn.....	Rosedale Hospital Co., Inc.

CHANNEL No. 72

1260 Kcys., 238.0 Meters

KOIL	2500 watts	Council Bluffs, Iowa.....	Mona Motor Oil Co.
KRGV	500 watts	Harlingen, Tex.....	Valley Radio-Electric Corp.
KVOA	D500 watts	Tucson, Ariz.....	Robert M. Rieulfi
KWVG	1000 watts	Brownsville, Tex.....	Chamber of Commerce
WJAX	1000 watts	Jacksonville, Fla.....	City of Jacksonville
WLBW	500 watts	Oil City, Pa.....	Petroleum Telephone Co.

CHANNEL No. 73

1270 Kcys., 236.1 Meters

KFUM	1000 watts	Colorado Spring, Colo.....	W. D. Corley
KGCA	D500 watts	Decorah, Iowa.....	Chas. W. Greenley
KOL	1000 watts	Seattle, Wash.....	Seattle Broadcasting Co., Inc.
KTW	1000 watts	Seattle, Wash.....	First Presbyterian Church
KWLC	D100 watts	Decorah, Iowa.....	Luther College
WASH	500 watts	Grand Rapids, Mich.....	WASH Broadcasting Corp.
WEAI	D500 watts	Ithaca, N. Y.....	Cornell University
WFBR	250 watts	Baltimore, Md.....	Baltimore Radio Show, Inc.
WJDX	CP1000 watts	Jackson, Miss.....	Lamar Life Ins. Co.
WOOD	500 watts	Grand Rapids, Mich.....	Walter B. Stiles, Inc.

CHANNEL No. 74

1280 Kcys., 234.2 Meters

WCAM	500 watts	Camden, N. J.....	City of Camden
WCAP	500 watts	Asbury Park, N. J.....	Radio Industries Broadcast Co.
WDAY	1000 watts	Fargo, N. D.....	WDAY, Inc.
WBDQ	LS2500 watts	Chattanooga, Tenn.....	Chattanooga Radio Co., Inc.
WOAX	500 watts	Trenton, N. J.....	Franklyn J. Wolff
WRB	500 watts	Dallas, Tex.....	City of Dallas

THE BIG THREE OF RADIO



227

The most perfect detector made — that's why SPEED 227's cost more for us to make, but not for you to buy. Burn-out proof! Fast heating — 5 seconds flat (not by words—by test!)

224

New? Not to us. In production in 1928 when demand was only experimental. While others have been announcing, we have been improving. That's what foresight and tube-making experience were able to do.

245

Perfected and in production weeks ahead of others. Very rigidly constructed — extra bracing of the elements — special anchoring of filament in the SPEED 245 give added volume and finer tone quality.

THE SPEED Tube line is, of course, complete*. But these are the "Big Three" now—the ones you're interested in particularly, because they're the ones your customers want. Carry the quality 227's, 224's, 245's,—SPEED—and your tube business is assured.

The SPEED proposition demands the consideration of every wide-awake jobber and dealer as a matter of good business. Work fast—write at once—franchises are going fast.

* The SPEED line also includes the 201A, 199, X140, W/D11, W/D12, 200AA, 112A, 171A, 171AC, 210A, 250, 226, 280, 281.



84-90 No. Ninth St., Brooklyn, N. Y.

MAKERS OF RADIO TUBES SINCE 1924

Representatives

- SPEED SALES CO., 253 Venice Blvd., Los Angeles, Calif.
- MONARCH SALES CO., 1268 Mission St., San Francisco
- ARTHUR S. DETSCH, Security Bldg., Portland, Ore.
- ARTHUR S. DETSCH, Terminal Bldg., Seattle, Wash.

CHANNEL No. 75



1290 Kcys., 232.4 Meters

KDYL	1000 watts	Salt Lake City, Utah....	Intermountain Brdcstg. Corp.
KFUL	1000 watts	Galveston, Tex.....	Will H. Ford
KLCN	D50 watts	Blytheville, Ark.....	Charles Leo Lintzenich
KTSA	LS2000 watts	San Antonio, Tex.....	Lone Star Brdcst. Co., Inc.
WERC	1000 watts	Duluth, Minn.....	Head of the Lakes Broadcasting Co.
WJAS	CP1000 watts	Pittsburgh, Pa.....	Pittsburgh Radio Supply House
WNBZ	D50 watts	Saranac Lake, N. Y.....	Smith & Mace

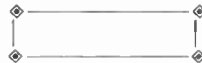
CHANNEL No. 76



1300 Kcys., 230.6 Meters

KFH	CP1000 watts	Wichita, Kans.....	KFH Co.
KFJR	500 watts	Portland, Ore.....	Ashley C. Dixon & Son
KGEF	1000 watts	Los Angeles, Calif....	Trinity Methodist Church, South
KTBI	750 watts	Los Angeles, Calif....	Bible Institute of Los Angeles
KTBR	500 watts	Portland, Ore.....	M. E. Brown
WEVD	500 watts	New York, N. Y.....	Debs Memorial Radio Fund, Inc.
WHAP	1000 watts	New York, N. Y.....	Defenders of Truth Society, Inc.
WHAZ	500 watts	Troy, N. Y.....	Rensselaer Poly. Inst.
WIBW	2500 watts	Topeka, Kans.....	Topeka Brdcstg. Assn., Inc.
WIOD	1000 watts	Miami Beach, Fla.....	Isle of Dreams Brdcstg. Co.
WBRB	1000 watts	Rossville, N. Y.....	Peoples Pulpit Association

CHANNEL No. 77



1310 Kcys., 228.9 Meters

KFBK	100 watts	Sacramento, Calif.....	James McClatchy Co.
KFGQ	100 watts	Boone, Ia.....	Boone Biblical College
KFJY	100 watts	Ft. Dodge, Ia.....	C. S. Tunwall
KFPL	15 watts	Dublin, Tex.....	C. C. Baxter
KFPN	15 watts	Ravenna, Neb.....	Otto F. Sothman
KFUP	100 watts	Denver, Colo.....	Fitzsimmon Gen. Hospital, U. S. Army
KFXJ	50 watts	Edgewater, Colo.....	R. G. Howell
KFXR	250 watts	Oklahoma City, Okla..	Exchange Ave. Baptist Church
KGEZ	100 watts	Kallispell, Mont.....	Kallispel C. of C.
KGFVW	50 watts	Greenville, Tex.....	The New Furniture Co.
KGCX	CP10 watts	Wolf Point, Mont.....	First State Bank of Vida
KMED	50 watts	Medford, Ore.....	Mrs. W. J. Virgin
KRMD	50 watts	Shreveport, La.....	Robert W. Dean
KTSL	100 watts	Shreveport, La.....	Houseman Sheet Met. Works, Inc.
KTSM	100 watts	El Paso, Tex.....	W. L. Bledsole & W. T. Blackwell
KWBR	100 watts	Joliet, Ill.....	Sanders Bros.
KWCR	100 watts	Cedar Rapids, Ia.....	Harry F. Paar
KXL	500 watts	Portland, Ore.....	KXL Broadcasters, Inc.
KXBO	75 watts	Aberdeen, Wash.....	KXRO, Inc.
WAGM	50 watts	Royal Oak, Mich.....	Robert L. Miller
WBOW	100 watts	Terre Haute, Ind.....	Banks of Wabash, Incorporated
WBRE	100 watts	Wilkes-Barre, Pa.....	Louis G. Baltimore
WCLS	100 watts	Joliet, Ill.....	WCLS, Inc.
WDAH	100 watts	El Paso, Tex.....	Trinity Methodist Church
WEBR	LS2000 watts	Buffalo, N. Y.....	Howell Broadcasting Co., Inc.
WFBG	100 watts	Altoona, Pa.....	William F. Gable Co.
WFDF	100 watts	Flint, Mich.....	Frank D. Fallain
WFKD	50 watts	Philadelphia, Pa.....	Foulkrod Radio Eng. Co.
WGAL	15 watts	Lancaster, Pa.....	Lancaster Elec. Sup. Co.
WGH	100 watts	Newport News, Va.....	Virginia Broadcasting Co., Inc.
WIBU	100 watts	Poynette, Wis.....	William C. Forrest
WJAC	100 watts	Johnstown, Pa.....	Johnstown Auto Co.
WJAK	50 watts	Marion, Ind.....	Marion Broadcast Co.
WKAV	100 watts	Laconia, N. H.....	Laconia Radio Club
WKBC	100 watts	Birmingham, Ala.....	R. B. Broyles Furniture Co.
WKBS	100 watts	Galesburg, Ill.....	Permil N. Nelson
WLBC	50 watts	Muncie, Ind.....	Donald A. Burton
WNAT	100 watts	Philadelphnia, Pa.....	Lennig Bros. Co.
WNBH	100 watts	New Bedford, Mass....	New Bedford, Broadcasting Co.
WNBJ	50 watts	Knoxville, Tenn.....	Lonsdale Baptist Church
WOBT	15 watts	Union City, Tenn.....	Tittsworth's Radio & Music Shop
WOL	100 watts	Washington, D. C.....	American Broadcasting Co.
WRAW	100 watts	Reading, Pa.....	Avenue Radio & Electric Shop
WRBI	20 watts	Tifton, Ga.....	Kent's Furniture & Music Store
WRK	100 watts	Hamilton, Ohio.....	S. W. Doran & John C. Slade
WSAJ	100 watts	Grove City, Pa.....	Grove City College
WSJS	CP100 watts	Winston-Salem, Mass....	Winston-Salem Journal Co.

SCREEN GRID

3 Screen Grid Tubes

5 Gang Condenser

LYRIC

RADIO

"The CHALLENGER"



Model No. 96

In the exquisite cabinet
shown above, only

\$195⁰⁰

Complete with Tubes

Other beautiful cabinets to
suit your fancy

LISTEN IN

The LYRIC "Challenges" on the air
every Saturday at 8 p. m. (Eastern
Standard Time) over W.E.A.F., New
York, and entire NBC network.

Distributed in California by

Listenwalter & Gough, Inc.

819 East First Street, Los Angeles

TRinity 9711

CHANNEL No. 78

1320 Kcys., 227.1 Meters

KGHF	250 watts	Pueblo, Colo.....	Curtis P. Ritchie and Joe E. Finch
KGIQ	250 watts	Twin Falls, Idaho.....	Radio Broadcasting Corp.
KIID	250 watts	Idaho Falls, Idaho.....	Jack W. Duckworth, Jr.
WADC	1000 watts	Akron, Ohio.....	Allen T. Simmons
WSMB	500 watts	New Orleans, La.	Saenger Theaters, Inc., and Maison Blanche Co.

CHANNEL No. 79

1330 Kcys., 225.4 Meters

KGB	250 watts	San Diego, Calif.....	Pickwick Broadcasting Corp.
KSCJ	2500 watts	Sioux City, Iowa.....	Perkins Bros. Co.
WDRC	500 watts	New Haven, Conn.....	The Doolittle Radio Corp.
WSAI	500 watts	Cincinnati, Ohio.....	Crosley Radio Corp. (Lessee)
WTAQ	1000 watts	Eau Claire, Wis.....	Gillette Rubber Co.

CHANNEL No. 80

1340 Kcys., 223.7 Meters

KFPY	500 watts	Spokane, Wash.....	Symons Broadcasting Co.
KFPW	D500 watts	Siloam Springs, Ark.....	Rev. Lannie W. Stewart
KMO	500 watts	Tacoma, Wash.....	KMO, Inc.
WSPD	LS500 watts	Toledo, Ohio.....	Toledo Broadcasting Co.

CHANNEL No. 81

1350 Kcys., 222.1 Meters

KWK	1000 watts	St. Louis, Mo.....	Greater St. Louis Brdctg. Corp.
WBNY	250 watts	New York, N. Y.....	Baruchrome Corp.
WCDA	250 watts	New York City.....	Italian Educational Brdctg. Co., Inc.
WBQ	250 watts	New York, N. Y.....	Standard Cahill Co. Inc.
WMSG	250 watts	New York, N. Y.....	Madison Sq. Garden Brdct. Corp.

CHANNEL No. 82

1360 Kcys., 220.4 Meters

KFBB	500 watts	Great Falls, Mont.....	Buttrely Broadcast, Inc.
KGER	250 watts	Long Beach, Calif.....	C. Merwin Dobyns
KGHR	250 watts	Butte, Mont.....	Symons Broadcasting Co.
KPSN	1000 watts	Pasadena, Calif.....	Pasadena Star-News Pub. Co.
WGES	500 watts	Chicago, Ill.....	Oak Leaves Brdctg. Station, Inc.
WJKS	LS1250 watts	Gary, Ind.....	Johnson Kennedy Radio Corp.
WLEX	500 watts	Lexington, Mass.....	The Lexington Air Stations
WMAF	500 watts	South Dartmouth, Mass.....	Round Hills Radio Corp.
WQBC	300 watts	Utica, Miss.....	Utica Chamber of Commerce, Inc.
WSSH	LS500 watts	Boston, Mass.....	Tremont Temple Baptist Church
WTOC	500 watts	Savannah, Ga.....	Chamber of Commerce

CHANNEL No. 83

1370 Kcys., 218.8 Meters

KCRC	250 watts	Enid, Okla.....	Champlin Refining Co.
KFBL	50 watts	Everett, Wash.....	Leese Bros.
KFJL	100 watts	Astoria, Ore.....	George Kincaid
KFJM	100 watts	Grand Forks, N. D.....	University of North Dakota
KFJZ	100 watts	Fort Worth, Tex.....	H. C. Meacham
KFLX	100 watts	Galveston, Tex.....	George Roy Clough
KGAR	100 watts	Tucson, Ariz.....	Tucson Motor Service Co.
KGBX	100 watts	St. Joseph, Mo.....	Foster-Hall Tire Co.
KGCI	100 watts	San Antonio, Tex.....	Liberto Radio Sales Co.
KGDA	50 watts	Dell Rapids, S. D.....	J. R. Nelson, as Home Auto Co.
KGFG	100 watts	Oklahoma City, Okla.....	Faith Tabernacle Assn., Inc.
KGFL	50 watts	Raton, N. M.....	Hubbard & Murphy
KGKL	100 watts	San Angelo, Tex.....	KGKL, Incorporated
KGRCL	100 watts	San Antonio, Tex.....	Eugene J. Roth
KIT	50 watts	Yakima, Wash.....	Carl E. Haymond
KLO	LS200 watts	Ogden, Utah.....	Perry Building Co.
KOH	100 watts	Reno, Nevada.....	Jay Peters, Inc.
KOOS	50 watts	Marshfield, Ore.....	H. H. Hanseth
KRE	100 watts	Berkeley, Calif.....	First Cong. Church of Berkeley
KVL	100 watts	Seattle, Wash.....	Arthur C. Dailey
KWKC	100 watts	Kansas City, Mo.....	Wilson Duncan Brdctg. Co.
WBBL	100 watts	Richmond, Va.....	Grace Covenant Presbyterian Church

SUNSET

A Positive Ground and the Selective Aerial

One of the most important requisites of good reception

Two of the greatest causes of hums, scratches and other foreign noises in your set are poorly constructed aerial and inferior or improper ground connection.

Get the most out of your radio receiver—enjoy clear, distinct programs—get the thrill of listening to distant stations that come in with a "bang."

Use Sunset Aerials and Grounds for efficient reception.

Place your order with the dealer now!

Manufactured by
SUNSET MFG. CO.
7471 Melrose Ave.
HEmpstead 4941
Los Angeles

"DX" Reception

(Continued from Page 8)

performance, a proper antenna and ground installation is necessary. A piece of wire in the picture molding and a ground to a convenient pipe may be quite satisfactory for local reception, but no set owner with such an installation is justified in complaining of the lack of DX reception. He may even get some distant stations, but by no means the maximum reception of which the receiver is capable.

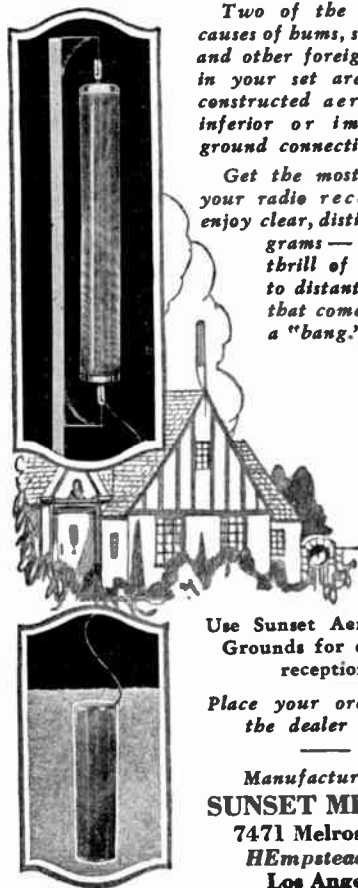
Ground

The best ground connection consists of a metal body buried deep enough in the ground to reach the moisture-bearing strata. This may consist of any of the special marketed grounds, buried deeply, or an iron pipe or steel rod driven down. It is desirable to provide means of pouring water down to the point of contact, salt water being preferable because it will raise the conductivity of the surrounding soil. This separate ground connection is superior to grounding to the water pipe. The latter is the hitching post for other electrical systems, and may or may not constitute a good ground connection. In many cases the actual electrical resistance between the point of contact on the pipe and the point where the pipe goes underground is so great that the connection to the pipe does not comprise an actual ground connection at all. It connects the radio more tightly to the door-bell and telephone systems than to Mother Earth.

Antenna

The antenna effects the reception in three ways. First, it is primarily intended to comprise the "pick-up" medium or "intercepting" surface whereby the waves radiating from the transmitting station are required to give up a bit of their energy in passing. It is logical that the amount of energy picked up by the antenna will depend upon its size. The larger the antenna, the more energy will be received. For DX reception, one would suppose that

(Continued on Page 79)



CHANNEL No. 83—Cont.

1370 Kcys., 218.8 Meters

WCBM	100 watts	Baltimore, Md.	Baltimore Broadcasting Corp.
WEHC	100 watts	Emory, Va.	Emory and Henry College
WELK	100 watts	Philadelphia, Pa.	Howard R. Miller
WFBJ	100 watts	Collegesville, Minn.	St. Johns University
WGL	100 watts	Ft. Wayne, Ind.	Allen Wayne Co.
WHBQ	100 watts	Memphis, Tenn.	Brdcstg. Station WHBQ, Inc.
WHBD	100watts	Bellefontaine, Ohio	E. P. Moler
WHDF	LS250 watts	Calumet, Mich.	Upper Mich Brdcstg. Co.
WIBM	100 watts	Jackson, Mich.	C. L. Carrell
WJBK	50 watts	Ypsilanti, Mich.	James F. Hopkins
WJBO	100 watts	New Orleans, La.	Valdemar Jensen
WMBO	100 watts	Auburn, N. Y.	Radio Service Laboratories
WPOE	30 watts	Patchogue, N. Y.	Nassau Brdcstg. Corp.
WRAK	50 watts	Erle, Pa.	Clarence R. Cummins
WRBT	100 watts	Wilmington, N. C.	Wilmington Radio Association
WRJN	100 watts	Racine, Wis.	Racine Broadcasting Corp.
WSVS	50 watts	Buffalo, N. Y.	Seneca Vocational School

CHANNEL No. 84

1380 Kcys., 217.3 Meters

KQV	500 watts	Pittsburgh, Pa.	Doubleday-Hill Elec. Co.
KSO	500 watts	Clarinda, Ia.	Berry Seed Co. (CP issued for 1 kw.)
WKBH	1000 watts	LaCrosse, Wis.	Jos. Callaway
WSMK	200 watts	Dayton, Ohio	Stanley M. Krohn, Jr.

CHANNEL No. 85

1390 Kcys., 215.7 Meters

KLRA	1000 watts	Little Rock, Ark.	Arkansas Brdcstg. Co.
KOY	500 watts	Phoenix, Ariz.	Nielsen Radio Supply Co.
KUOA	1000 watts	Fayetteville, Ark.	University of Arkansas
KWSC	500 watts	Pullman, Wash.	State College of Washington
WHK	1000 watts	Independence, Ohio	Radio Air Service Corp.

CHANNEL No. 86

1400 Kcys., 214.2 Meters

KOCW	LS500 watts	Chickasha, Okla.	Oklahoma College for Women
WBA A	CP500 watts	W. Lafayette, Ind.	Purdue University
WBBC	500 watts	Brooklyn, N. Y.	Brooklyn Broadcasting Corp.
WBCU	500 watts	Coney Island, N. Y.	U. S. Broadcasting Corp.
WCMA	500 watts	Culver, Ind.	Culver Military Academy
WKBFB	500 watts	Indianapolis, Ind.	Indianapolis Brdcstg. Inc.
WLTH	500 watts	Brooklyn, N. Y.	Voice of Brooklyn, Inc.
WSGH-WSDA	500 w.	Brooklyn, N. Y.	Amateur Radio Spec. Co.

CHANNEL No. 87

1410 Kcys., 212.6 Meters

KFLV	500 watts	Rockford, Ill.	A. T. Frykman
KGRS	1000 watts	Amarillo, Texas.	Gish Radio Service
WBCM	500 watts	Bay City, Mich.	James E. Davidson
WDAG	250 watts	Amarillo, Texas.	Natl. Radio & Brdcstg. Corp.
WHBL	500 watts	Shebovgan, Wis.	Press Pub. Co. & C. L. Carrell
WODX	CP500 watts	Springfield, Ala.	Mobile Brdcstg. Corp.
WSGP	CP500 watts	Savannah, Ga.	Chamber of Commerce

CHANNEL No. 88

1420 Kcys., 211.1 Meters

KFIF	100 watts	Portland, Ore.	Denson Polytechnic School
KFIZ	100 watts	Fond du Lac, Wis.	The Reporter Printing Co.
KFQU	100 watts	Holy City, Calif.	W. E. Riker
KFQW	100 watts	Seattle, Wash.	KFQW, Inc.
KFXD	50 watts	Jerome, Idaho.	Service Radio Co.
KFFY	100 watts	Flagstaff, Ariz.	Mary M. Costigan
KFYO	LS250 watts	Ablene, Tex.	Kirksey Bros.
KGFF	100 watts	Alva, Okla.	KGFF Broadcasting Co.
KGCG	50 watts	San Francisco, Calif.	The Golden Gate Brdcstg. Co.
KGIV	100 watts	Trinidad, Colo.	Trinidad Creamery Co., Inc.
KGIX	CP100 watts	Las Vegas, Nev.	J. M. Heaton

SM SILVER-MARSHALL, Inc.
Greatest Distance Champion

SILVER RADIO

*Has the Most Glorious Tone
 You Ever Heard!*

Your neighborhood Silver Radio dealer will gladly give you a FREE DEMONSTRATION in your own home of the many exclusive Silver Radio features.



3 Beautiful Models

Princess Model
(As illustrated)
 Installed, less tubes
\$170.50

Aristocrat Model
(All its name implies)
 Installed, less tubes
\$195.00

De Luxe Model
(A massive, luxurious cabinet)
 Installed, less tubes
\$206.00

**You Can Visit Around the World in a Few Minutes
 With Your Silver Radio**

**PLAYS 5 JAPANESE STATIONS
 ALTERNATELY FOR 2 HOURS**

R. L. Burnley of Pomona played 5 Japanese stations, JOAK, JOIK, JOGK, JOHK, and JOBK, continuously for 2 hours and dialed from one to the other at will on his Silver Radio without aerial, loop, or ground. Four newspaper men were witnesses.

Your Silver Radio will give you outstanding performance. Silver Radio is so good it requires no aerial or ground for brilliant local or distance reception.

RADIO DISTRIBUTING CO.

Southern California and Arizona Distributors

138 West 17th Street

Tel. WEStmore 4376

*Call WE. 4376 for Address of Your Nearest Silver Radio Dealer
 For a FREE Demonstration in Your Own Home.*

CHANNEL No. 88—Cont.

1420 Kcys., 211.1 Meters

KGKX	15 watts	Sandpoint, Idaho.....	C. E. Twiss
KICK	100 watts	Red Oak, Iowa.....	Red Oak Radio Corp.
KLPM	100 watts	Minot, N. D.....	E. C. Reincke
KORE	100 watts	Eugene, Ore.....	Eugene Broadcast Station
KTAP	100 watts	San Antonio, Tex.....	Alamo Broadcasting Co.
KTUE	CP100 watts	Houston, Tex.....	Uhalt Electric Co.
KXL	100 watts	Portland, Ore.....	KXL Broadcasters Inc.
WEDH	30 watts	Erle, Pa.....	Erle Dispatch Herald Brdcstg. Corp.
WHDL	D10 watts	Tupper Lake, N. Y.....	George Franklin Bissell
WHIS	100 watts	Bluefield, W. Va.....	Daily Telegraph Printing Co.
WIAS	100 watts	Ottumwa, Iowa.....	Poling Electric Co.
WIBR	50 watts	Steubenville, Ohio.....	George W. Robinson
WILM	100 watts	Wilmington, Del.....	Delaware Broadcasting Co., Inc.
WKBP	50 watts	Battle Creek, Mich.....	Enquirer News Co.
WLEF	100 watts	Kansas City, Kans.....	Everett L. Dillard
WLEY	LS250 watts	Lexington, Mass.....	Lexington Air Stations
WMBC	100 watts	Detroit, Mich.....	Michigan Brdcstg., Inc.
WMBH	LS250 watts	Joplin, Mo.....	Edwin Dudley Aber
WMRJ	10 watts	Jamaica, N. Y.....	Peter J. Prinz
WQBZ	60 watts	Weirton, W. Va.....	J. H. Thompson
WTBO	50 watts	Cumberland, Md.....	Cumberland Broadcasting Co.

CHANNEL No. 89

1430 Kcys., 209.7 Meters

KECA	1000 watts	Los Angeles, Calif.....	Earle C. Anthony, Inc.
WBAC	500 watts	Harrisburg, Pa.....	Penna. State Police
WBRL	CP500 watts	Manchester, N. H.....	Booth Radio Laboratories, Inc.
WCAH	500 watts	Columbus, Ohio.....	Commercial Radio Service Co.
WGBC	500 watts	Memphis, Tenn.....	First Baptist Church
WHP	500 watts	Harrisburg, Pa.....	Pennsylvania Broadcasting Co.
WNBK	500 watts	Memphis, Tenn.....	John Ulrich

CHANNEL No. 90

1440 Kcys., 208.2 Meters

KLS	D250 watts	Oakland, Calif.....	Warner Bros.
WCBA	250 watts	Allentown, Pa.....	B. Bryan Musselman
WHEC-WABO	500 w.	Rochester, N. Y.....	Hickson Electric Co., Inc.
WMBD	LS1000 watts	Peoria Hts. Ill.....	Peoria Hgts. Radio Lab.
WNRC	250 watts	Greensboro, N. C.....	Wayne M. Nelson
WOKO	500 watts	Poughkeepsie, N. Y.....	Harold E. Smith
WSAN	250 watts	Allentown, Pa.....	Allentown Call Pub. Co., Inc.
WTAD	500 watts	Quincy, Ill.....	Ill. Stock Medicine Brdcstg. Corp.

CHANNEL No. 91

1450 Kcys., 206.8 Meters

KTBS	500 watts	Shreveport, La.....	S. R. Elliott & A. C. Steere
WBNS	250 watts	Fort Lee, N. J.....	WBMS Brdcstg. Corp.
WCSS	500 watts	Springfield, Ohio.....	Wittenburg College
WFJC	500 watts	Akron, Ohio.....	W. F. Jones Brdcstg., Inc.
WBS	250 watts	Elizabeth, N. J.....	New Jersey Brdcstg. Corp.
WKBO	250 watts	Jersey City, N. J.....	Camith Corp.
WNJ	250 watts	Newark, N. J.....	Radio Investment Co.
WSAR	250 watts	Fall River, Mass.....	Doughty & Welch Elec. Co., Inc.
WTFI	250 watts	Toccoa, Ga.....	Toccoa Falls Institute

CHANNEL No. 92

1460 Kcys., 205.4 Meters

KSTP	10,000 watts	St. Paul, Minn.....	National Battery Brdcstg. Co.
WJSV	10,000 watts	Mt. Vernon Hills, Va.....	Independent Pub. Co.

CHANNEL No. 93

1470 Kcys., 204.0 Meters

KFJF	5000 watts	Oklahoma City, Okla.....	National Radio Mfg. Co.
KGA	5000 watts	Spokane, Wash.....	Northwest Radio Service Co.
WKBW	5000 watts	Buffalo, N. Y.....	Churchill Evangelistic Assn., Inc.
WRUF	5000 watts	Gainesville, Fla.....	University of Florida

LYNCH

Veritas Noiseless Resistors



2 watt Veritas
All sizes 85 cents

The Lynch Veritas Resistor has solved the "noisy" problem in radio receivers. The element is of metal, baked and ground right into a tube. Accordingly the metal is relatively thick, and soldered securely to the end caps.

THE LYNCH DYNOHMIC AND METALLIZED GRID LEAKS ARE STANDARD. Prices 75c and 50c

For use in B Eliminator circuits, AC Sets, Special Amateur Hook-ups, or small transmitters, the 5 watt Veritas Lynch resistor is used.



5 watt Veritas
All sizes below 1 meg.
\$1.00 each



Lynch Veritas 10 watt Type \$1.25

**LARGER LYNCH TRANSMITTING RESISTORS
ARE CARRIED IN STOCK**

at Radio Supply Co., 912 S. Broadway, Los Angeles
**THE LYNCH LINE OF RESISTORS IS STOCKED BY
LEADING DISTRIBUTORS AND DEALERS**

Southern California Distributors

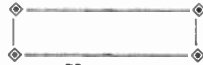
Radio Supply Co.
Herbert H. Horn
Coast Electric Co.
Williams and Klentz

C. C. Lawton Co.
Yale Radio Elec. Co.
Sunset Elec. Co.
Long Beach Whlsal. Radio Co.

LYNCH MANUFACTURING COMPANY

General Motors Bldg., New York, N. Y.
Pacific Coast Factory Representative
DON C. WALLACE, Laughlin Bldg., Long Beach, Cal.

CHANNEL No. 94

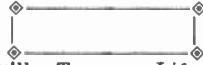


1480 Kcys., 202.6 Meters

WCKY CP5000 watts
 WJAZ 5000 watts
 WORD 5000 watts
 WSOA 5000 watts

Covington, Ky..... L. B. Wilson
 Chicago, Ill..... Zenith Radio Co.'s
 Chicago, Ill..... Peoples Pulpit Association
 Forest Park, Ill..... Radiophone Brdcastg. Corp.

CHANNEL No. 95



1490 Kcys., 201.2 Meters

WLAC 5000 watts
 WTNT 5000 watts

Nashville, Tenn..... Life & Casualty Ins. Co. of Tenn.
 Nashville, Tenn..... Tennessee Pub. Co.

CHANNEL No. 96



1500 Kcys., 199.9 Meters

KDB 100 watts
 KGFI 100 watts
 KGHX 50 watts
 KGGK 100 watts
 KPJM 100 watts
 KUJ 10 watts
 KYEP 15 watts
 WEHS 100 watts
 WHFC 100 watts
 WKBI 50 watts
 WKBV LS150 watts
 WKBZ 50 watts
 WLBX 100 watts
 WLOF LS250 watts
 WMBA 100 watts
 WMBQ 100 watts
 WMES 50 watts
 WMPC 100 watts
 WNBF 50 watts
 WOPI 100 watts
 WPEN LS250 watts
 WRBJ CP100 watts
 WRRL 100 watts

Santa Barbara, Calif..... Santa Barbara Brdcastg. Co.
 Corpus Christi, Tex..... Eagle Brdcastg. Co., Inc.
 Richmond, Texas..... Ft. Bend County School Board
 Brownwood, Texas..... Eagle Publishing Co.
 Prescott, Ariz..... Miller & Klahn
 Long View, Wash..... Columbia Brdcastg. Co., Inc.
 Portland, Ore..... Shaeffer Radio Co.
 Evanston, Ill..... Victor C. Carlson
 Cicero, Ill..... Triangle Broadcasters
 Chicago, Ill..... Fred L. Schoenwolf
 Brookville, Ind..... Knox Battery & Electric Co.
 Luddington, Mich..... K. L. Ashbacker
 Long Island City, N. Y..... John N. Brahy
 Boston, Mass..... Boston Broadcasting Co.
 Newport, R. I..... LeRoy Joseph Beebe
 Brooklyn, N. Y..... Paul J. Gollhofer
 Boston, Mass..... Massachusetts Educational Society
 Lapeer, Mich..... First Methodist Protestant Church
 Binghampton, N. Y..... Howitt-Wood Radio Co., Inc.
 Bristol, Tenn..... Radiophone Service Co.
 Philadelphia, Pa..... Wm. Penn Broadcasting Co.
 Hattiesburg, Miss..... Woodruff Furniture Co.
 Woodside, N. Y..... L. I. Broadcasting Corp.

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DEPARTMENT OF COMMERCE
BUREAU OF NAVIGATION
RADIO DIVISION

AIR-LINE DISTANCES

Table with columns: FROM/TO, Albuquerque, N. Mex., Atlanta, Ga., Baltimore, Md., Boise, Idaho, Boston, Mass., Brownsville, Tex., Buffalo, N. Y., Chicago, Ill., Cincinnati, Ohio, Cleveland, Ohio, Denver, Colo., Des Moines, Iowa, Detroit, Mich., El Paso, Tex., Fargo, N. Dak., Fort Worth, Tex., Galveston, Tex., Hastings, Nebr., Hot Springs, Ark., Houghton, Mich., Jacksonville, Fla., Kansas City, Mo., Los Angeles, Calif., Louisville, Ky., Memphis, Tenn., Miami, Fla., Minneapolis, Minn., Missoula, Mont., Nashville, Tenn., New Orleans, La., New York, N. Y., Norfolk, Va., Oklahoma, Okla., Omaha, Nebr., Philadelphia, Pa., Phoenix, Ariz., Pittsburgh, Pa., Portland, Me., Portland, Oreg., Richmond, Va., St. Louis, Mo., Salt Lake City, Utah, San Francisco, Calif., Schenectady, N. Y., Seattle, Wash., Shreveport, La., Spokane, Wash., Springfield, Mass., Vermillion, S. Dak., Washington, D. C.

Radio Programs, Logs, Features
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SALT LAKE CITY DENVER KANSAS CITY CHICAGO CINCINNATI PITTSBURG PHILADELPHIA SCHENECTADY NEW YORK

Majestic "DX" Contest

(LONG DISTANCE)

It's Easy to Win!

Every week some enthusiastic Majestic owner in Southern California wins one of the efficient Bouldin Cage Antennas and puts himself in the running for the grand prizes that will be awarded in May, 1930. It's easy to get distance with the new Majestic.

Published here are two logs which won weekly prizes. You can do as well. Read the rules of the contest . . . sit down at your Majestic and log the stations . . . then send in your certified list. Remember to comply with all contest rules.

RULES

1. Contest open to any Majestic owner living in Southern California or Arizona.
2. Majestic dealers, their relatives or employees are not eligible to enter station logs for prizes.
3. Letters must state Serial number of Majestic radio owned and name of dealer from whom purchased.
4. Station list must show date and time station was heard, record of selections broadcast by station at that time, and be certified by a Notary Public.
5. Prizes will be awarded, not only on a basis of the size of the log but will take into consideration location, interference conditions, time, etc. The longest log from a good location may be of less merit than a shorter one from a more difficult location.
6. Logs entered by contestants early in the contest may be supplemented by subsequent lists later in the "DX" season.

JUDGES:

K. G. Ormiston, Tech. Ed. Radio Doings
Naylor Rogers, Mgr. Radio Station KNX
Al Farquharson, Sec. L. A. Radio Trades Assn.

PRIZES:

WEEKLY PRIZE Bouldin Cage Antenna Value \$15

GRAND PRIZES

To be Awarded at End of Contest

FIRST PRIZE - **\$100**
SECOND PRIZE - **\$50**
THIRD PRIZE - **\$25**

Can You Get All These Stations? It Can Be Done

Wilmar, Calif.,
October 31, 1929.

Majestic DX Club:

I have a Majestic Radio Model 71, Serial No 7A-103284, which was purchased Aug. 23, 1928. I am a Majestic booster. So far have had no trouble, only bought two tubes, otherwise have had nothing done to the set. And I have surely put it to a test, and still going strong.

DX conditions haven't been extra good this week. I know I could do better later, but here goes with what I have logged since Friday, Oct. 25th to Oct. 29th, inclusive:

WHAS, KJR, WLW, KOA, KLX, KEX, KSL, KGIQ, KOB, KGA, KDB, WBAP, KHQ, KGW, KDYL, WLS, KFQB, KMMJ, KFNF, WAAW, WNAX, KFFL, KFBK, KQW, WOAI, KTAB, KFRC,

KMJ, WJR, KPO, KGO, KMOX, KYA, KWKH, WBT, WCCO, WFAA, WGN, WMAQ, KDKA, WLAC, WSB, WOC, KPOF, KRLD, KGW, CKWX, CHLS, XEN, JOHK, JOBK, JOIK, JOAK, JOFK, JOGK.

More power to Majestic DX contest and Radio Doings.

Yours very truly,

D. M. BOOZER,
312 W. Fern Ave., Wilmar, Cal.

November 17, 1929.

DX Contest, Radio Doings.

Dear Sirs: Ninety-two stations with programs from five foreign countries! This is what the Majestic played for me on the one night of Nov. 16-17, from sunset to sunrise. Here they are:

KTAB, KLZ, KMTR, WSUI, KHQ, WOW, KFSD, KFRC, KFAD, KGW, KFI,

WSM, WMAQ, KPO, WLW, KEJK, WGN, IMMJ, KVI, KFAB, WBBM, KELW, KTM, KGO, WBAP, WFAA, KOA, KWKH, WWL, KFQZ, WLS, WENR, KLZ, KFNF, KHJ, WKY, KOMO, KPRC, KFVI, KMA, KGBZ, KFEL, KFXX, KFWB, KJR, KFVD, WHO, KQW, KRLD, KTHS, KNX, KMOX, KSOO, KFSG, KMIC, KSL, KVOO, WOWO, KOB, KEX, WOAI, KGFJ, KMJ, WREN, KYA, KTAT, KFOX, KOIL, KVOA, KDYL, KFXJ, KGHF, KGIQ, KGB, KGIR, WPG, WOR, WRVA, WTAM, WCCO, WHAS, KDKA, WBT, WSB, WJR, CKWX, XEB, XEN, XEH, CMC, JOHK, 2YA.

High static level after midnight prevented getting a better log of trans-Pacific stations.

Very truly yours,

PAUL LOVE,
Mission Ranch, Phoenix, Ariz.

CONTEST CLOSES MAY 1, 1930

Address all letters submitting logs in this contest to Majestic DX Contest Judges, care Radio Doings, 407 E. Pico Street, Los Angeles.

UNGAR & WATSON, Inc.

Distributors in Southern California and Arizona

1361-63-65 South Figueroa Street, Los Angeles

Supplement to the List of Commercial and Government Radio Stations of the United States

IN STATUTE MILES

Louisville, Ky.	Memphis, Tenn.	Miami, Fla.	Minneapolis, Minn.	Missoula, Mont.	Mechville, Tenn.	New Orleans, La.	New York, N. Y.	Norfolk, Va.	Oklahoma, Okla.	Omaha, Nebr.	Philadelphia, Pa.	Phoenix, Ariz.	Pittsburgh, Pa.	Portland, Me.	Portland, Ore.	Richmond, Va.	St. Louis, Mo.	Salt Lake City, Utah	San Francisco, Calif.	Schenectady, N. Y.	Seattle, Wash.	Shreveport, La.	Spokane, Wash.	Springfield, Mass.	Vermillion, S. Dak.	Washington, D.C.																																																																																																																																																																																																																																									
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946 738 343	1745 115 603 2063 353	490 1587 2163 408 2025	904 1804 478 795 303	1038 878	1732 699 670 1018 1079	1628 1562 503 485 1575	585 1320 1603 985 1468	793 372 946 1618 1020	719 827 1692 466 1490	477 485	1338 235 1074 523 825	1023 983 469 122 972	1154 718 1197 1479 905	270 952 1547 1012 1470	624 1243 1085 187 895	315 421	1136 542 1552 468 938	483 522 905 666 444	1685 208 657 1975 445	452 1490 2087 467 1545	591 1715 540 705 397	1353 978	1668 1156 1111 1169 968	1902 1755 578 875 1834	347 1592 2126 1286 1695	1033 689 993 1930 1373	522 1138 1990 890 1774	818 882	1721 219 819 900 1221	1213 1258 786 390 1186	1225 952 1313 1249 1180	658 865 1447 1157 1206	1002 976 1240 384 1141	701 448	1150 870 1312 643 470	1398 1228 188 590 1324	658 1077 1242 1612 1170	568 977 1454 1445 1658	209 1470 1495 689 1210	857 492	941 1087 1595 666 398	1415 1195 456 828 1335	1065 1140 1678 1885 1154	697 1249 1693 1487 1938	233 1753 1584 938 1214	693 591	1468 399 891 697 870	1275 1216 357 125 1222	901 967 1454 1271 1142	455 708 1297 1267 1288	613 1061 1340 167 1139	480 176	983 326 1385 370 358	1125 955 260 490 1051	1094 825 1371 1733 897	332 1161 1648 1175 1579	148 1552 1226 605 936	436 430	1545 1272 2008 760 1187	849 946 926 547 827	1550 630 924 1638 870	501 1242 1833 776 1588	1043 1360 860 510 619	595 591	328 1192 2070 502 511	838 548 988 1098 758	1800 703 1113 2442 952	755 1640 2133 960 8450	733 2299 957 1203 467	480 370	1247 413 1117 472 678	2077 1009 893 165 1037	1045 784 1500 1397 937	228 922 1500 1107 1505	1585 577 346 2445 956	1420 939 8313 1891 2395	1885 1602	2355 1522 910 1777 1675	2446 2352 1182 1312 2368	357 2135 2631 625 2263	582 1400 1983 695 1945	598 1720 743 643 478	319	923 605 1550 133 623	850 258 675 579 500	1512 345 892 1953 457	242 1250 1800 1010 1867	779 1652 1055 642 762	823 878	1516 2359 821 661	1095 802 1833 1402 1323	1998 1024 1357 2716 831	1067 2098 2603 1229 2740	950 2528 1210 1510 977	605 700	1518 1010 1010 695 1050	1019 1047 692 221 985	1279 745 1245 1435 968	464 988 1285 975 1403	859 1173 1054 238 994	1530 1463	8359 1010 1010 1582 1733	2030 2045 1162 978 1997	532 1734 2103 430 1867	1331 435 762 1978 395	1457 170 2060 887 1940	153 195	821 195 1582 400 470	758 586 602 604 603	1645 472 1015 1970 536	253 1390 1958 820 1973	470 1752 863 704 567	682 858	681 1050 1733 470 400	1173 932 575 845 1090	1218 923 1445 2063 899	599 1432 1923 1259 2098	280 1898 1287 960 568	450 953	1095 1019 2030 758 1173	893 1384 1244 820	2142 213 277 2455 257	873 1972 2568 142 2419	1230 2180 120 1189 204	588 778	802 1047 2045 586 932	893 1166 1095 220	2027 316 565 2458 79	771 1925 2510 425 2440	1037 2211 411 1166 145	675 422	1233 692 1162 620 575	1324 1126 405 1256	843 1013 1550 1468 1122	456 862 1386 1354 1373	897 1324 1412 502 1150	579 539	1402 291 978 604 845	1144 1095 405 1094	1032 857 1310 1373 1020	532 833 1625 1133 1372	617 1149 1205 115 1012	800 878	1083 985 1997 683 1090	83 220 1256 1094 1005	2075 254 360 2419 205	808 1923 2518 205 2308	1153 2119 801 1143 122	1311 1264	1998 1279 932 1445 1318	2142 2627 843 1052 2079	1829 2345 1007 1960	1270 504 652 2152 1112	1067 1080 2220 1043 1980	345 640	1014 745 1754 472 923	313 316 1013 837 754	1329 229 545 545 2563 565	1094 2127 2725 197 2513	1486 2285 159 1345 480	1983 1800	2603 1585 762 1958 1923	2568 2510 1386 1425 2518	652 2204 2725 535 2436	1736 592 2548 680	1655 730 2615 1383 2437	693 1012	1229 973 1978 820 1259	142 426 1354 1133 205	2152 350 157 2465 406	898 1950 2542 2363	1290 2139 86 1145 313	1548 1867	2740 1403 395 1973 2098	2419 2440 1523 1372 2388	1112 2145 2513 743 2362	1722 697 680 2363	1820 229 2445 1282 2123	598 279	950 859 1457 470 2080	1230 1307 297 617 1153	1057 939 1684 1783 985	456 1155 1655 1290 1820	1621 1333 728 1038	1780 1658	2528 1175 170 1752 1898	2190 3211 1324 1149 2150	1020 1918 2265 295 2133	1500 546 720 2139 229	1621 222 2216 1052 2105	1780 1658	1012 1054 2040 685 1287	120 411 1412 1205 201	2220 400 159 2498 407	958 2207 2625 86 2445	1333 2216 1000 1942 321	643 643	1310 238 687 704 940	1189 1166 502 115 1243	1043 891 1345 1293 1089	450 785 1383 1165 1882	726 1055 1242 1073	643 743	927 938 1940 547 988	204 145 1150 1012 122	1980 188 450 2360 96	710 1845 2437 313 2355	1095 2105 221 1073

Every Week in Radio Doings Use the Coupon on Page 62





RULES

1. Contest open to any Majestic owner living in Southern California or Arizona.
2. Majestic dealers, their relatives or employees are not eligible to enter station logs for prizes.
3. Letters must state Serial number of Majestic radio owned and name of dealer from whom purchased.
4. Station list must show date and time station was heard, record of selections broadcast by station at that time, and be certified by a Notary Public.
5. Prizes will be awarded, not only on a basis of the size of the log but will take into consideration location, interference conditions, time, etc. The longest log from a good location may be of less merit than a shorter one from a more difficult location.
6. Logs entered by contestants early in the contest may be supplemented by subsequent lists later in the "DX" season.

JUDGES:

K. G. Ormiston, Tech. Ed. Radio Doings
 Naylor Rogers, Mgr. Radio Station KNX
 Al Farquharson, Sec. L. A. Radio Trades Assn.

PRIZES:

WEEKLY PRIZE Bouldin Cage Antenna Value \$15

GRAND PRIZES

To be Awarded at End of Contest

FIRST PRIZE - \$100
SECOND PRIZE - \$50
THIRD PRIZE - \$25



It's

Every week some enthusiast in Southern California wins a Bouldin Cage Antennas and prizes running for the grand prize awarded in May, 1930. It's easy with the new Majestic.

Can You Get

Wilmar, Calif.,
 October 31, 1929.

Majestic DX Club:

I have a Majestic Radio Model 7 Serial No 7A-103284, which was purchased Aug. 23, 1928. I am a Majestic booster. So far have had no trouble only bought two tubes, otherwise have had nothing done to the set. And have surely put it to a test, and still going strong.

DX conditions haven't been extra good this week. I know I could do better later, but here goes with what I have logged since Friday, Oct. 25th to Oct. 29th, inclusive:

WHAS, KJR, WLW, KOA, KLX, KEK, KSL, KGIQ, KOB, KGA, KDB, WBA, KHQ, KGW, KDYL, WLS, KFK, KMMJ, KFNF, WAAW, WNAX, KFF, KFBK, KQW, WOAI, KTAB, KFR

Address all letters to test Judges, c/o

Distributors in Southern California



Easy to Win!

ic Majestic owner
one of the efficient
puts himself in the
izes that will be
easy to get distance

Published here are two logs which won weekly prizes. You can do as well. Read the rules of the contest . . . sit down at your Majestic and log the stations . . . then send in your certified list. Remember to comply with all contest rules.

All These Stations? It Can Be Done

KMJ, WJR, KPO, KGO, KMOX, KYA, KWKH, WBT, WCCO, WFAA, WGN, WMAQ, KDKA, WLAC, WSB, WOC, KPOF, KRLD, KGW, CKWX, CHLS, XEN, JOHK, JOBK, JOIK, JOAK, JOFK, JOGK.

More power to Majestic DX contest and Radio Doings.

Yours very truly,

D. M. BOOZER,
312 W. Fern Ave., Wilmar, Cal.

November 17, 1929.

DX Contest, Radio Doings.

Dear Sirs: Ninety-two stations with programs from five foreign countries! This is what the Majestic played for me on the one night of Nov. 16-17, from sunset to sunrise. Here they are:

KTAB, KLZ, KMTR, WSUI, KHQ, WOW, KFSD, KFRC, KFAD, KGW, KFI,

WSM, WMAQ, KPO, WLW, KEJK, WGN, IMMJ, KVI, KFAB, WBBM, KELW, KTM, KGO, WBAP, WFAA, KOA, KWKH, WWL, KFQZ, WLS, WENR, KLZ, KFNF, KHJ, WKY, KOMO, KPRC, KFWI, KMA, KGBZ, KFEL, KFXP, KFWB, KJR, KFVD, WHO, KQW, KRLD, KTHS, KNX, KMOX, KSOO, KFSG, KMIC, KSL, KVOO, WOWO, KOB, KEX, WOAI, KGFJ, KMJ, WREN, KYA, KTAT, KFOX, KOIL, KVOA, KDYL, KFXJ, KGHF, KGIQ, KGB, KGIR, WPG, WOR, WRVA, WTAM, WCCO, WHAS, KDKA, WBT, WSB, WJR, CKWX, XEB, XEN, XEH, CMC, JOHK, 2YA.

High static level after midnight prevented getting a better log of trans-Pacific stations.

Very truly yours,

PAUL LOVE,
Mission Ranch, Phoenix, Ariz.

CONTEST CLOSES MAY 1, 1930

Senders submitting logs in this contest to Majestic DX Contest are Radio Doings, 407 E. Pico Street, Los Angeles.

NGAR & WATSON, Inc.

California and Arizona

1361-63-65 South Figueroa Street, Los Angeles

THESE
Majestic Dealers

Can Give IMMEDIATE Delivery and are Service Experts

"It Will Pay You to See Us First"

ANGELUS RADIO SHOP

4208 Santa Monica Blvd.

OLympia 7745

Liberal Terms

BIRKEL MUSIC CO.

Home Demonstrations

446 So. Broadway VA. 1241

CULVER CITY

It is Easier to Buy from Us

Blunt Radio Electric Shop

Come In and Make Us Prove It

6808 Culver Blvd. Phone 2286

Liberal Trade-in Allowance—Terms to Suit

Ormiston Radio Shop

Home Demonstrations Any Evening

4018 W. 10th St.

WYoming 2704



SOUTH WESTERN AVENUE

ROBINSON RADIO SHOP

"Certified Service"—Open Evenings

4523 So. Western Ave.

VERmont 6683

Alphabetical Call List

TIME AND POWER LIMITATIONS

D.—Daytime.
 LS.—Power until local sunset.
 LT.—Limited Time.
 LP.—Limited Power.
 CP.—Construction Permit authorized.
 S.—Where studio location differs from transmitter, same follows transmitter location.

Call	Location	Freq.	Meters	Power	Log
KCRC	Enid, Okla.	LS 1370	218.8	250	
KDB	Santa Barbara, Cal.	1500	199.9	100	
KDFN (CP)	Casper, Wyoming	1210	247.8	100	
KDKA	Saxonburg, Pa.; S—Pittsburgh	980	305.9	50000	
KDLR	Devils Lake, N. D.	1210	247.8	100	
KDYL	Salt Lake City, Utah	1290	232.4	1000	
KECA	Los Angeles, Calif.	LT 1430	209.7	1000	
KEJK	Beverly Hills, Calif.	LT 710	422.3	500	
KELW	Burbank, Cal.	780	384.4	500	
KEX	Portland, Oregon	1180	254.1	5000	
KFAB	Lincoln, Nebr.	770	389.4	5000	
KFAD	Phoenix, Ariz.	620	483.6	1000	
KFBB	Great Falls, Mont.	1360	220.4	500	
KFBK	Sacramento, Calif.	1310	228.9	100	
KFBL	Everett, Wash.	1370	218.8	50	
KFDM	Beaumont, Texas	LS 550	545.4	1000	
KFDY	Brookings, S. D.	LS 550	545.1	1000	
KFEL	Denver, Colo.	630	475.9	250	
KFEQ	St. Joseph, Mo.	D 680	440.9	2500	
KFGQ	Boone, Iowa	1310	228.9	100	
KFH (CP)	Wichita, Kans.	1300	230.6	1000	
KFHA	Gunnison, Colo.	1200	249.9	100	
KFI	Los Angeles, Cal.	640	468.5	5000	
KFIF	Portland, Oregon	1420	211.1	100	
KFIO	Spokane, Wash.	D 1230	243.8	100	
KFIZ	Fond du Lac, Wis.	1420	211.1	100	
KFJB	Marshalltown, Iowa	1200	249.9	100	
KFJF	Oklahoma City, Okla.	1470	204.0	5000	
KFJI	Astoria, Oregon	1370	218.8	100	
KFJM	Grand Forks, N. D.	1370	218.8	100	
KFJR	Portland, Oregon	1300	230.6	500	
KFJY	Fort Dodge, Iowa	1310	228.9	100	
KFJZ	Fort Worth, Texas	1370	218.8	100	
KFKA	Greeley, Colo.	LS 880	340.7	1000	
KFKB	Milford, Kans.	LT 1050	285.5	5000	
KFKU	Lawrence, Kans.	1220	245.8	1000	
KFKX-KYW	(See KYW-KFKX)				
KFLV	Rockford, Ill.	1410	212.6	500	
KFLX	Galveston, Texas	1370	218.8	100	
KFMX	Northfield, Minn.	1250	239.9	1000	
KFNF	Shenandoah, Iowa	LS 890	336.9	1000	
KFOR	Lincoln, Nebr.	LS 1210	247.8	100	
KFOX	Long Beach, Cal.	1250	234.9	1000	
KFPL	Dublin, Texas	1310	228.9	15	
KFPM	Greenville, Texas	1310	228.9	15	
KFPW	Siloam Springs, Ark.	D 1340	223.7	50	
KFPY	Spokane, Wash.	1340	223.7	500	
KFQA-KMOX	(See KMOX-KFQA)				
KFQD	Anchorage, Alaska	1230	243.8	100	

It Is Easy to Own A Modern Radio

*Select the Radio of Your Desire
from Our Stock of*

**Sparton
Philco
Atwater Kent
Rola**

We will demonstrate it in your home and
arrange the payments to suit your income

*Remember! Your Old Furniture can be
used in the purchase of New or on a Radio*

—Why not use it.

Birch-Smith Furniture Co

737 South Hill St. (Near 8th)

Phone TRinity 4121

Alphabetical Call List (Continued)

Call	Location	Freq.	Meters	Power	Log
KFQU	Holy City, Cal.	1420	211.1	100	
KFQW	Seattle, Wash.	1420	211.1	100	
KFQZ	Hollywood, Cal.; S—L. A.	LT 860	348.6	250	
KFRC	San Francisco, Cal.	610	491.5	1000	
KFRU	Columbia, Mo.	630	475.9	500	
KFSD	San Diego, Cal.	LS 600	499.7	1000	
KFSG	Los Angeles, Cal.	1120	267.7	500	
KFUL	Galveston, Texas	1290	232.4	1000	
KFUM	Colorado Springs, Colo.	1270	236.1	1000	
KFUO	Clayton, Mo.	LS 550	545.1	1000	
KFUP	Denver, Colo.	1310	228.9	100	
KFVD	Culver City, Calif.	LT 1000	299.8	250	
KFVS	Cape Girardeau, Mo.	1210	247.8	100	
KFWB	Hollywood, Calif.	950	315.6	1000	
KFWF	St. Louis, Mo.	1200	249.9	100	
KFWI	San Francisco, Calif.	930	322.4	500	
KFWM	Oakland, Calif.	LS 930	322.4	500	
KFXD	Jerome, Idaho	1420	211.1	50	
KFXF	Denver, Colo.	630	475.9	250	
KFXJ	Edgewater, Colo.	1310	228.9	50	
KFXM	San Bernardino, Calif.	1210	247.8	100	
KFXR	Oklahoma City, Okla.	1310	228.9	250	
KFXY	Flagstaff, Ariz.	1420	211.1	100	
KFYO	Abilene, Texas	LS 1420	211.1	250	
KFYR	Bismarck, N. D.	550	545.1	500	
KGA	Spokane, Wash.	1470	204.0	5000	
KGAR	Tucson, Ariz.	1370	218.8	100	
KGB	San Diego, Calif.	1330	225.4	250	
KGBU	Ketchikan, Alaska	900	333.1	500	
KGBX	St. Joseph, Mo.	1370	218.8	100	
KGBZ	York, Nebr.	LS 930	322.4	1000	
KGCA	Decorah, Iowa	D 1270	236.1	50	
KGCI	San Antonio, Texas	1370	218.8	100	
KGCR	Watertown, S. D.	1210	247.8	100	
KGCU	Mandan, N. D.	1200	249.9	100	
KGCX	Wolf Point, Mont.	LS 1310	228.9	100	
KGDA	Dell Rapids, S. D.	1370	218.8	50	
KGDE	Fergus Falls, Minn.	1200	249.9	50	
KGDM	Stockton, Calif.	D 1100	272.6	50	
KGDY	Oldham, S. D.	1200	249.9	15	
KGEF	Los Angeles, Calif.	1300	230.6	1000	
KGEK	Yuma, Colo.	1200	249.9	50	
KGER	Long Beach, Calif.	1360	220.4	250	
KGEW	Fort Morgan, Colo.	1200	249.9	100	
KGEZ	Kalispell, Mont.	1310	228.9	100	
KGFF	Alva, Okla.	1420	211.1	100	
KGFG	Oklahoma City, Okla.	1370	218.8	100	
KGFI	Corpus, Christi, Texas	1500	199.9	100	
KGFJ	Los Angeles, Calif.	1200	249.9	100	
KGFK	Hallock, Minn.	1200	249.9	50	
KGFL	Raton, N. Mex.	1370	218.8	50	
KGFV	Ravenna, Nebr.	1310	228.9	50	
KGFX	Pierre, S. D.	D 580	516.9	200	
KGGC	San Francisco, Calif.	1420	211.1	50	
KGGF	Picher, Okla.	1010	296.9	500	
KGGM	Albuquerque, N. Mex.	LS 1230	243.8	500	
KGHE	Pueblo, Colo.	1320	227.1	250	
KGHI	Little Rock, Ark.	1200	249.9	100	
KGHL	Billings, Mont.	950	315.6	500	



YAXLEY
APPROVED RADIO PRODUCTS



Radio Convenience Outlets

A handsome wall plate in brass or rich brown bakelite; no unsightly wires along the baseboard, no marring of woodwork—that is the beauty and utility of the Yaxley Radio Convenience Outlet for Aerial and Ground Connections.

Enjoy radio reception in any room—upstairs or down, in the small home or large hotel, hospital or other building. That is the pleasure brought to you with the Yaxley Radio Convenience Outlet for speaker connections.

There are gang combinations to meet every requirement. The plates are neat in appearance and mount flush. The plates and fittings harmonize. May be had in either a brush brass finish or rich bakelite. They are electrically and mechanically correct, and fit any standard switch box.

Yaxley Radio Convenience Outlets Are Both Practical and Artistic

—♦—
Factory Representatives



Henger-Seltzer Co.

711 EAST 14TH ST.
LOS ANGELES

1063 HOWARD ST.
SAN FRANCISCO

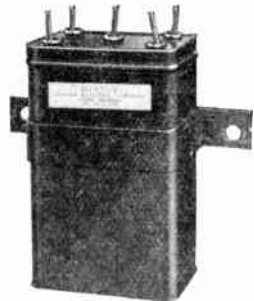


Alphabetical Call List (Continued)

Call	Location	Freq.	Meters	Power	Log
KGHX	Richmond, Texas	1500	199.9	50	
KGIQ	Twin Falls, Idaho	1320	227.1	250	
KGIR	Butte, Mont.	1360	220.4	250	
KGIW	Trinidad, Colo.	1420	211.1	100	
KGIX (CP)	Las Vegas, Nev.	1420	211.1	100	
KGJF	Little Rock, Ark.	890	336.9	250	
KGKB	Brownwood, Texas	1500	199.9	100	
KGKL	San Angelo, Texas	1370	218.8	100	
KGKO	Wichita Falls, Texas	LS 570	526.0	500	
KGKX	Sandpoint, Idaho	1420	211.1	15	
KGO	Oakland, Calif.	790	379.5	7500	
KGRC	San Antonio, Texas	1370	218.8	100	
KGRS	Amarillo, Texas	1410	212.6	1000	
KGU	Honolulu, Hawaii	940	319.0	500	
KGW	Portland, Oregon	620	483.6	1000	
KGY	Lacey, Wash.	LS 1200	249.9	50	
KHJ	Los Angeles, Calif.	900	333.1	1000	
KHQ	Spokane, Wash.	590	508.2	2000	
KICK	Red Oak, Iowa	1420	211.1	100	
KID	Idaho Falls, Idaho	1320	227.1	250	
KIDO	Boise, Idaho	1250	239.9	1000	
KIT	Yakima, Wash.	1370	218.8	50	
KJBS	San Francisco, Calif.	D 1070	280.2	100	
KJR	Seattle, Wash.	LT 760	394.5	5000	
KLCN	Blytheville, Ark.	D 1290	232.4	50	
KLO	Ogden, Utah	LS 1370	218.8	200	
KLPM	Minot, N. D.	1420	211.1	100	
KLRA	Little Rock, Ark.	1390	215.7	1000	
KLS	Oakland, Calif.	D 1440	208.2	250	
KLX	Oakland, Calif.	880	340.7	500	
KLZ	Denver, Colo.	560	535.4	1000	
KMA	Shenandoah, Iowa	LS 930	322.4	1000	
KMBC	Kansas City, Mo.	950	315.6	1000	
KMED	Medford, Oregon	1310	228.9	50	
KMIC	Inglewood, Calif.	1120	267.7	500	
KMJ	Fresno, Calif.	1210	247.8	100	
KMMJ	Clay Center, Nebr.	LT 740	405.2	1000	
KMO	Tacoma, Wash.	1340	223.7	500	
KMOX-KFQA	Kirkwood, Mo.; S—St. Louis	1090	275.1	50000	
KMTR	Hollywood, Calif.	570	526.0	500	
KNX	Sherman Oaks, S—Hollywood, Cal.	1050	285.5	5000	
KOA	Denver, Colo.	830	361.2	12500	
KOAO	Corvallis, Oregon	550	545.1	1000	
KOB	State College, N. M.	1180	254.1	20000	
KOCW	Chickasha, Okla.	LS 1400	214.2	500	
KOH	Reno, Nev.	1370	218.8	100	
KOIL	Council Bluffs, Iowa	LS 1260	238.0	2500	
KOIN	Portland, Oregon	940	319.0	1000	
KOL	Seattle, Wash.	1270	236.1	1000	
KOMO	Seattle, Wash.	970	325.9	1500	
KOOS	Marshfield, Oregon	1370	218.8	50	
KORE	Eugene, Oregon	1420	211.1	100	
KOY	Phoenix, Ariz.	1390	215.7	500	
KPCB	Seattle, Wash.	1210	247.8	50	
KPJM	Prescott, Ariz.	1500	199.9	100	
KPO	San Francisco, Calif.	680	440.9	5000	
KPOF	Denver, Colo.	880	340.7	500	
KPPC	Pasadena, Calif.	1210	247.8	50	
KPQ	Seattle, Wash.	1210	247.8	100	

General Motors QUIETUS

The sensitivity of the present day receiver is so great that along with the wonderful DX reception, comes plenty of noise. This noise can be greatly reduced with the General Motors Day-Fan QUIETUS.



Type 6001, Quietus
Price \$10.00

1. General Motors QUIETUS may be applied at the radio set by connecting between the wall socket and the set.
2. General Motors QUIETUS may be connected in the alternating current supply at the service switch near the electric meter.
3. General Motors QUIETUS may be connected at the source of the interference (motors, vibrators, etc.).

**DISTRIBUTED ON THE PACIFIC COAST BY LEADING
DISTRIBUTORS AND DEALERS**

Distributed in Southern California by

Radio Supply Co.

C. C. Lawton Co.

John G. Rapp Corp.

Long Beach Whsle. Radio Co.

Williams and Klentz

Sunset Electric Co.

Electric Supplies Dist. Co.

Write for Booklet Fully Describing Circuits and Uses

General Motors Radio Corporation

DAYTON

OHIO

Alphabetical Call List (Continued)

Call	Location	Freq.	Meters	Power	Log
KPRC	Houston, Texas	LS 920	325.9	2500	
KPSN	Pasadena, Calif.	1360	220.4	1000	
KQV	Pittsburgh, Pa.	1380	217.3	500	
KQW	San Jose, Calif.	1010	296.9	500	
KRE	Berkeley, Calif.	1370	218.8	100	
KREG	Santa Ana, Calif.	1500	199.9	100	
KRGV	Harlingen, Texas	1260	238.0	500	
KRLD	Dallas, Texas	1040	288.3	10000	
KRMD	Shreveport, La.	1310	228.9	50	
KRSC	Seattle, Wash.	D 1120	267.7	50	
KSAC	Manhattan, Kans.	LS 580	516.9	1000	
KSAT	Fort Worth, Texas	1240	241.8	1000	
KSCJ	Sloux City, Iowa	1330	225.4	1000	
KSD	St. Louis, Mo.	550	545.1	500	
KSEI	Pocatello, Idaho	900	333.1	250	
KSL	Salt Lake City, Utah	1130	265.3	5000	
KSMR	Santa Maria, Calif.	1200	249.9	100	
KSO	Clarinda, Iowa	1380	217.3	500	
KSOP	Sloux Falls, S. D.	LT 1110	270.1	2000	
KSTP	Westcott, Minn.; S—St. Paul	1460	205.4	10000	
KTAB	Oakland, Calif.	560	535.4	1000	
KTAP	San Antonio, Texas	1420	211.1	100	
KTBI	Los Angeles, Calif.	1300	230.6	750	
KTBR	Portland, Oregon	1300	230.6	500	
KTBS	Shreveport, La.	1450	206.8	500	
KTHS	Hot Springs Nat'l Park, Ark.	1040	288.3	10000	
KTM	Santa Monica, Calif.; S—L. A.	780	384.8	1000	
KTNT	Muscatine, Iowa	LT 1170	256.3	5000	
KTSA	San Antonio, Texas	LS 1290	232.4	2000	
KTSL	Cedar Grove, La.; S—Shreveport	1310	228.9	100	
KTSM (CP)	El Paso, Texas	1310	228.9	100	
KTUE (CP)	Houston, Texas	1420	211.1	100	
KTW	Seattle, Wash.	1270	236.1	1000	
KUJ	Longview, Wash.	1500	199.9	10	
KUOA	Fayetteville, Ark.	1390	215.7	1000	
KUOM	Missoula, Mont.	570	526.0	500	
KUSD	Vermillion, S. D.	LS 890	336.9	750	
KUT	Austin, Texas	1120	267.7	500	
KVEP	Portland, Ore.	1500	199.9	15	
KVI	Tacoma, Wash.	LT 920	325.9	1000	
KVL	Seattle, Wash.	1370	218.8	100	
KVOA	Tucson, Ariz.	D 1260	238.0	500	
KVOO	Tulsa, Okla.	1140	263.0	5000	
KVOS	Bellingham, Wash.	1200	249.9	100	
KWCR	Cedar Rapids, Iowa	1310	228.9	100	
KWEA	Shreveport, La.	1210	247.8	100	
KWG	Stockton, Calif.	1200	249.9	100	
KWJ	Portland, Oregon	LT 1060	282.8	500	
KWK	St. Louis, Mo.	1350	222.1	1000	
KWKC	Kansas City, Mo.	1370	218.8	100	
KWKH	Kennewood, La.	850	352.7	10000	
KWLC	Decorah, Iowa	D 1270	236.1	100	
KWSC	Pullman, Wash.	1390	215.7	500	
KWWG	Brownville, Texas	1260	238.0	500	
KXA	Seattle, Wash.	570	526.0	500	
KXL	Portland, Oregon	1420	211.1	100	
KXO	El Centro, Calif.	1200	249.9	100	
KXRO	Aberdeen, Wash.	1310	228.9	75	
KYW-KFKX	Bloomington, Ill.	1020	293.9	5000	

ERLA

The Quality Radio Receiver

*For the People Who Desire the Best That
Radio Has to Offer*

Check (✓) the 10 outstanding qualifications of this remarkable radio and you will want to own one.

- | | |
|---|--|
| 1—3 Screen grid tubes. | <i>perfect distance reception.</i> |
| 2—Full tone dynamic speaker. | 6—Hairline selectivity. |
| 3—Exclusive cabinet designs. | 7—One stage of resistance coupled audio for pure tone. |
| 4—Rigid steel chassis construction. | 8—Two type 245 power tubes in push pull for great power. |
| 5—DX switch to bring into play the extra screen grid tube for | 9—Absolutely humless. |
| | 10—Exact voltage control |

CALL US FOR ALL PARTICULARS

Southern California and Arizona Distributor

CAL-RAD COMPANY

1319 Maple

Westmore 8101

Los Angeles, Cal.

Alphabetical Call List (Continued)

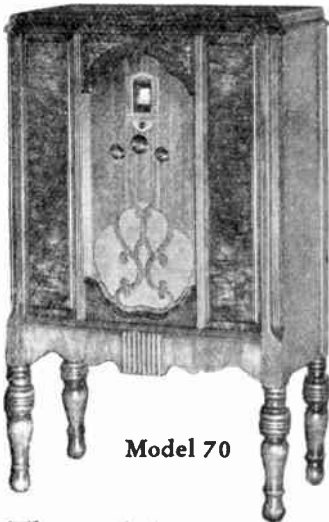
Call	Location	Freq.	Meters	Power	Log
KYWA	Chicago, Ill.	1020	293.9	500	
WAAF	Chicago, Ill.	D 920	325.9	500	
WAAM	Newark, N. J.	LS 1250	239.9	1000	
WAAT	Jérsey City, N. J.	1070	280.2	300	
WAAW	Omaha, Nebr.	D 660	454.3	500	
WABC-WBOQ	New York City	860	348.6	5000	
WABI	Bangor, Maine	1200	249.9	100	
WABO-WHEC	(See WHEC-WABO)				
WABZ	New Orleans, La.	1200	249.9	100	
WADC	Akron, Ohio	1320	227.1	1000	
WAGM	Royal Oak, Mich.	1310	228.9	50	
WAIU	Columbus, Ohio	LT 640	468.5	500	
WAPI	Birmingham, Ala.	1140	263.0	5000	
WASH	Grand Rapids, Mich.	1270	236.1	500	
WBAA (CP)	W. Lafayette, Ind.	1400	214.2	500	
WBAK	Harrisburg, Pa.	1430	209.7	500	
WBAL	Glen Morris, Md.	1060	282.8	10000	
WBAP	Fort Worth, Texas	LP 800	374.8	50000	
WBAX	Bear Creek Township, Pa.	1210	247.8	100	
WBBC	Brooklyn, N. Y.	1400	214.2	500	
WBBL	Richmond, Va.	1370	218.8	100	
WBMM-WJBT	Glenview, Ill.; S—Chicago, Ill.	770	389.4	10000	
WBBR	Rossville, N. Y.	1300	230.6	1000	
WBBY	Charleston, S. C.	1200	249.9	75	
WBBZ	Ponca City, Okla.	1200	249.9	100	
WBCM	Bay City, Mich.	1410	212.6	500	
WBNC-WNAC	(See WNAC-WBIS)				
WBMS	Port Lee, N. J.	1450	206.8	250	
WBNY	New York, N. Y.	1350	221.1	250	
WBOQ-WABC	(See WABC-WBOQ)				
WBOW	Terre Haute, Ind.	1310	228.9	100	
WBRC	Birmingham, Ala.	LS 930	322.4	1000	
WBRE	Wilkes-Barre, Pa.	1310	228.9	100	
WBRL	Tilton, N. H.	1430	209.7	500	
WBSO	Babson Park, Mass.	D 920	325.9	250	
WBT	Charlotte, N. C.	1080	227.6	5000	
WBZ	Springfield, Mass.	990	302.8	15000	
WBZA	Boston, Mass.	990	302.8	500	
WCAC	Storrs, Conn.	600	499.7	250	
WCAD	Canton, N. Y.	D 1220	245.8	500	
WCAE	Pittsburgh, Pa.	1220	245.8	500	
WCAH	Columbus, Ohio	1430	209.7	500	
WCAJ	Lincoln, Nebr.	590	508.2	500	
WCAL	Northfield, Minn.	1250	239.0	1000	
WCAM	Camden, N. J.	1280	234.2	500	
WCAO	Baltimore, Md.	600	499.7	250	
WCAP	Asbury Park, N. J.	1280	234.2	500	
WCAT	Rapid City, S. D.	1200	249.9	100	
WCAU	Byberry, Pa.; S—Philadelphia	1170	256.3	10000	
WCAX	Burlington, Vt.	1200	249.9	100	
WCAZ	Carthage, Ill.	D 1070	280.2	50	
WCHA	Allentown, Pa.	1440	208.2	250	
WCHD	Zion, Ill.	LT 1030	277.6	5000	
WCHM	Baltimore, Md.	1370	218.8	100	
WCHS	Springfield, Ill.	1210	247.8	100	
WCCO	Anoka, Minn.; S—Minneapolis	810	370.2	7500	
WCDA	Cliffside Pk., N. J.; S—N. Y. City	1350	222.1	250	
WCFL	Chicago, Ill.	LT 970	309.1	1500	
WCGU (CP)	Coney Island, N. Y.	1400	214.2	500	

Steinite

SUPER SCREEN-GRID RADIO

Steinite's New Set and

Steinite's
Amazing
Price



Model 70

\$125

Less Tubes

*You Can Get No More
Than This at Any
Price!*

1. Three (3) Screen-Grid Tubes—a total of seven tubes.
2. Four condensers.
3. Linear power detection with automatic grid bias.
4. Push-pull audio power-stage using the newest "245" tubes.
5. Real humless reception.
6. "Battleship" chassis construction, completely shielded.
7. Electro-Dynamic speaker.
8. Glorious tone.
9. Magnificent consoles.

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Collins-Kelvinator Corp.

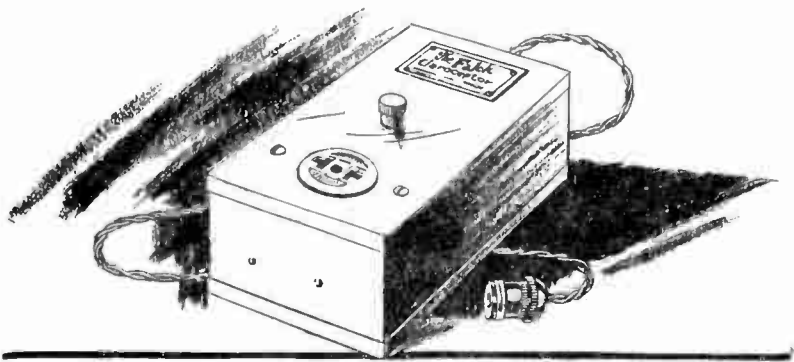
1414 W 7th St.

DUNKIRK 3115

Los Angeles

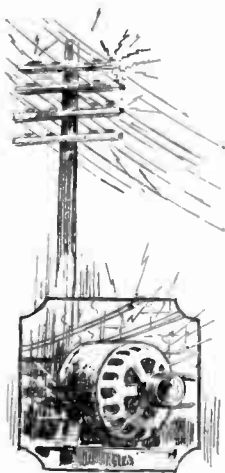
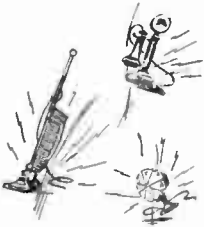
Alphabetical Call List (Continued)

Call	Location	Freq.	Meters	Power	Log
WCKY	Harrison, O.; S—Covington, Ky.	1480	202.6	5000	
WCLO	Kenosha, Wis.	1200	249.9	100	
WCLS	Joliet, Ill.	1310	228.9	100	
WCMA	Culver, Ind.	1400	214.2	500	
WCOA	Pensacola, Fla.	1120	267.7	500	
WCOC	Meridian, Miss.	LS 880	340.7	1000	
WCOD	Harrisburg, Pa.	1200	249.9	100	
WCOH	Greenville, N. Y.; S—Yonkers, N.Y.	1210	247.8	100	
WCRW	Chicago, Ill.	1210	247.8	100	
WCSH	Portland, Maine	940	319.0	500	
WCSS	Springfield, Ohio	1450	206.8	500	
WDAE	Tampa, Fla.	620	483.6	1000	
WDAF	Kansas City, Mo.	610	491.5	1000	
WDAG	Amarillo, Texas	1410	212.6	250	
WDAH	El Paso, Texas	1310	228.9	100	
WDAY	Fargo, N. D.	1280	234.2	1000	
WDBJ	Roanoke, Va.	LS 930	322.4	500	
WDBO	Orlando, Fla.	620	483.6	1000	
WDEL	Wilmington, Del.	LS 1120	267.7	250	
WDGY	Minneapolis, Minn.	LT 1180	254.1	1000	
WDOD	Chattanooga, Tenn.	LS 1280	234.2	2500	
WDRC	New Haven, Conn.	1330	225.4	500	
WDSU	New Orleans, La.	1250	239.0	1000	
WDWF-WLSI	Cranston, R.I.; S—Providence, R.I.	1210	247.8	100	
WDZ	Tuscola, Ill.	D 1070	280.2	100	
WEAF	Bellmore, N.Y.; S—N.Y. City	LP 660	454.3	50000	
WEAI	Ithaca, N. Y.	D 1270	236.1	500	
WEAN	Providence, R. I.	LS 780	384.4	250	
WEAO	Columbus, Ohio	570	526.0	750	
WEAR	Cleveland, Ohio	1070	280.7	1000	
WEBC	Superior, Wis.; S—Duluth, Minn.	1290	232.4	1000	
WEBE	Cambridge, Ohio	1210	247.8	100	
WEBQ	Harrisburg, Ill.	1210	247.8	100	
WEBR	Buffalo, N. Y.	LS 1310	228.9	200	
WEBW	Beloit, Wis.	D 560	535.4	500	
WEDC	Chicago, Ill.	1210	247.8	100	
WEDH	Erie, Pa.	1420	211.1	30	
WEEL	Weymouth, Mass.	590	508.2	1000	
WEHC	Emory, Va.	1370	218.8	100	
WEHS	Evanston, Ill.	1500	199.9	100	
WELK	Philadelphia, Pa.	1370	218.8	100	
WEMC	Berrien Springs, Mich.	D 590	508.2	1000	
WENR-WBCN	Chicago, Ill.	LP 870	344.6	50000	
WEVD	Forest Hills, N. Y.; S—N. Y. City	1300	230.6	500	
WEW	St. Louis, Mo.	D 760	394.5	1000	
WFAA	Dallas, Texas	CP 800	374.8	50000	
WFAN	Philadelphia, Pa.	610	491.5	500	
WFBC	Knoxville, Tenn.	1200	249.9	50	
WFBG	Altoona, Pa.	1310	228.9	100	
WFBJ	Collegeville, Minn.	1370	218.8	100	
WFBM	Syracuse, N. Y.	900	333.1	750	
WFBN	Indianapolis, Ind.	1230	243.8	1000	
WFBT	Baltimore, Md.	1270	236.1	250	
WFDF	Flint, Mich.	1310	228.9	100	
WFI	Philadelphia, Pa.	560	535.4	500	
WFIW	Hopkinsville, Ky.	940	468.5	1000	
WFJC	Akron, Ohio	1450	206.8	500	
WFKD	Philadelphia, Pa.	1310	228.9	50	
WFLA-WSUN	Clearwater, Fla.	LS 620	483.0	2500	



STOP A. C. Noise

Improve Selectivity



RADIO reception may be made much more enjoyable by plugging in a Falck Claroceptor between the light socket and your set. By blocking out the line interference noises, this wonderful device also helps selectivity and distance. Tested, proved. Thousands now in successful use all over America. No change required in your set. Only equipment of the kind. Compact size: $3\frac{1}{2}'' \times 5\frac{1}{2}'' \times 2\frac{1}{2}''$. Made by pioneer radio manufacturer. At radio parts dealers, or write us for new free folder.

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Dept. R.D. 1260 W. 2nd St., Los Angeles, Cal.

Jobbers and Dealers, Get Our Proposition.

Falck **\$750**
 (with cord
 and plug)
CLAROCEPTOR

Alphabetical Call List (Continued)

Call	Location	Freq.	Meters	Power	Log
WGAL	Lancaster, Pa.	1310	228.9	15	
WGBB	Freeport, N. Y.	1210	247.8	100	
WGBC	Memphis, Tenn.	1430	209.7	500	
WGBF	Evansville, Ind.	630	475.9	500	
WGBI	Scranton, Pa.	880	340.7	250	
WGBS	Astoria, L. I.; S—N. Y. City	LT 1180	254.1	500	
WGCM	Gulfport, Miss.	1210	247.8	100	
WGCP	Newark, N. J.	1250	239.0	250	
WGES	Chicago, Ill.	1360	220.4	500	
WGH	Newport News, Va.	1310	228.9	100	
WGHP	Fraser, Mich.; S—Detroit	1240	241.8	750	
WGL	Fort Wayne, Ind.	1370	218.8	100	
WGMS-WLB	(See WLB-WGMS)				
WGN-WLIB	Elgin, Ill.	720	416.4	25000	
WGR	Amherst, N. Y.	550	546.1	1000	
WGST	Atlanta, Ga.	LS 890	336.9	500	
WGY	S. Schenectady, N. Y.	790	379.5	50000	
WHA	Madison, Wis.	D 940	319.0	750	
WHAD	Milwaukee, Wis.	1120	267.7	250	
WHAM	Rochester, N. Y.	1150	260.7	5000	
WHAP	Carlstadt, N. J.; S—N. Y. City	1300	230.6	1000	
WHAS	Jeffersonton, Ky.; S—Lsvl	CP 820	365.6	10000	
WHAZ	Troy, N. Y.	1300	230.6	500	
WHB	Kansas City, Mo.	D 710	422.3	500	
WHBC	Canton, Ohio	1200	249.9	10	
WHBD	Bellefontaine, Ohio	1370	218.8	100	
WHBF	Rock Island, Ill.	1210	247.8	100	
WHBL	Sheboygan, Wis.	1410	212.6	500	
WHBQ	Memphis, Tenn.	1370	218.8	100	
WHBU	Anderson, Ind.	1210	247.8	100	
WHBY	West De Pere, Wis.	LT 1200	249.9	100	
WHDF	Calumet, Mich.	1370	218.8	250	
WHDH (CP)	Gloucester, Mass.	D 830	361.2	1000	
WHDI	Minneapolis, Minn.	LT 1180	254.1	500	
WHDL	Tupper Lake, N. Y.	D 1420	211.1	10	
WHEC-WABO	Rochester, N. Y.	1440	208.2	500	
WHFC	Cicero, Ill.	1500	199.9	100	
WHIS (CP)	Bluefield, W. Va.	1420	211.1	100	
WHK	Independence, Ohio.	1390	215.7	1000	
WHN	New York, N. Y.	1010	296.9	250	
WHO	Des Moines, Iowa	1000	299.8	5000	
WHP	Lemoine, Pa.; S—Harrisburg	1430	209.7	500	
WIAS	Ottumwa, Iowa	1420	211.1	100	
WIBA	Madison, Wis.	1210	247.8	100	
WIBG	Elkins Park, Pa.	D 930	322.4	50	
WIBM	Jackson, Mich.	1370	218.8	100	
WIBO	Chicago, Ill.	LS 560	535.4	1500	
WIBR	Steubenville, Ohio	1420	211.1	50	
WIBS	Elizabeth, N. J.	1450	206.8	250	
WIBU	Poynette, Wis.	1310	228.9	100	
WIBW	Topeka, Kan.	LS 1300	230.6	2500	
WIBX	Utica, N. Y.	LS 1200	249.9	300	
WICC	Easton, Conn.; S—Bridgeport	D 1190	252.0	500	
WIL	St. Louis, Mo.	LS 1200	249.9	250	
WILL	Urbana, Ill.	LS 890	336.9	500	
WILM	Wilmington, Del.	1420	211.1	100	
WINR	Bay Shore, N. Y.	1210	247.8	100	
WIOD	Miami Beach, Fla.	1300	230.6	1000	
WIP	Philadelphia, Pa.	610	491.5	500	

RCA Radiola

MADE BY THE MAKERS OF THE RADIOTRON

New Radiola 66

one of the finest superheterodynes
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Built-in Electro-dynamic Speaker.

\$225

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VERmont 5205
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GRanite 0338

PASADENA

Lee Radio Shop
922 E. Colorado St.
Wakefield 5951

Alphabetical Call List (Continued)

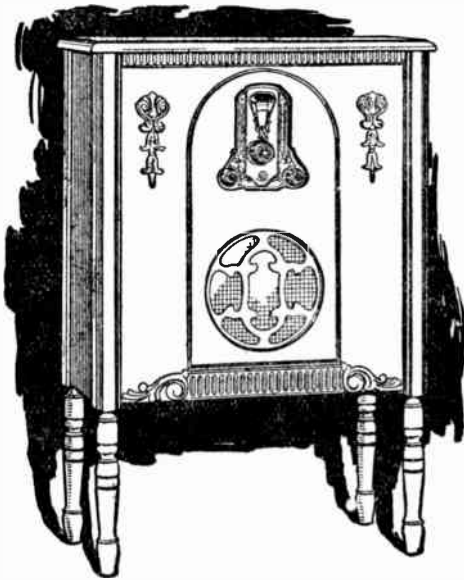
Call	Location	Freq.	Meters	Power	Log
WISN	Milwaukee, Wis.	1120	267.7	250	
WJAC	Johnstown, Pa.	1310	228.9	100	
WJAD	Waco, Texas	1240	241.8	1000	
WJAG	Norfolk, Nebr.	LT 1060	282.8	1000	
WJAK	Marion, Ind.	1310	228.9	50	
WJAR	Providence, R. I.	LS 890	336.9	400	
WJAS	Pittsburgh, Pa.	1290	232.4	1000	
WJAX	Jacksonville, Fla.	1260	238.0	1000	
WJAY	Cleveland, Ohio	D 620	483.6	500	
WJAZ	Mt. Prospect, Ill.; S—Chicago	1480	202.6	5000	
WJBC	LaSalle, Ill.	1200	249.9	100	
WJHI	Red Bank, N. J.	1210	247.8	100	
WJBK	Ypsilanti, Mich.	1370	218.8	50	
WJBL	Decatur, Ill.	1200	249.9	100	
WJBO	New Orleans, La.	1370	218.8	100	
WJBT-WBBM	(See WBBM-WJBT)				
WJBU	Lewisburg, Pa.	1210	247.8	100	
WJBW	New Orleans, La.	1200	249.9	30	
WJBY	Gadsden, Ala.	1210	247.8	50	
WJDX (CP)	Jackson, Miss.	LS 1270	236.1	500	
WJDD	Mooseheart, Ill.	1130	265.3	2000	
WJKS	Gary, Ind.	LS 1360	220.4	1400	
WJR	Detroit, Mich.	750	399.8	5000	
WJSV	Mt. Vernon Hills, Va.	1460	205.4	10000	
WJW	Mansfield, Ohio	1210	247.8	100	
WJZ	New York City, N. Y.	LP 760	394.5	30000	
WKAQ	San Juan, P. R.	890	336.9	500	
WKAR	E. Lansing, Mich.	D 1040	288.3	1000	
WKAV	Laconia, N. H.	1310	228.9	100	
WKBB	Joliet, Ill.	1310	228.9	100	
WKBC	Birmingham, Ala.	1310	228.9	100	
WKBF	Indianapolis, Ind.	1400	214.2	500	
WKBH	La Crosse, Wis.	1380	217.3	1000	
WKBI	Chicago, Ill.	1500	199.9	50	
WKBN	Youngstown, Ohio	570	526.0	500	
WKBO	Jersey City, N. J.	1460	206.8	250	
WKBP	Battle Creek, Mich.	1420	211.1	50	
WKBQ	New York, N. Y.	1350	222.1	250	
WKBS	Galesburg, Ill.	1310	228.9	100	
WKBV	Brookville, Ind.	(CP) 1500	199.9	100	
WKBW	Amherst; S—Buffalo, N. Y.	1470	204.0	5000	
WKBZ	Ludington, Mich.	1500	199.9	50	
WKEN	Buffalo, N. Y.	LT 1040	288.3	1000	
WKJC	Lancaster, Pa.	1200	249.9	100	
WKRC	Cincinnati, Ohio	550	545.1	500	
WKY	Oklahoma City, Okla.	900	333.1	1000	
WLAC	Nashville, Tenn.	1490	201.2	5000	
WLAP	Louisville, Ky.	1200	249.9	30	
WLH-WGMS	Minneapolis, Minn.	1250	239.0	500	
WLBC	Muncie, Ind.	1310	228.9	50	
WLBF	Kansas City	1420	211.1	100	
WLBG	Ettrick, Va.; S—Petersburg	LS 1200	249.9	250	
WLBL	Stevens Pt., Wis.	D 900	333.1	3000	
WLBW	Oil City, Pa.	1250	238.0	500	
WLBX	Long Island City, N. Y.	1500	199.9	100	
WLBZ	Bangor, Maine	620	483.6	500	
WLCT	Ithaca, N. Y.	1210	247.8	50	
WLEX	Lexington, Mass.	1360	220.4	500	
WLEY	Lexington, Mass.	1420	211.1	250	

STEWART-WARNER RADIO

The remarkable performance of the new Stewart-Warner Screen-Grid Radio is the sensation of the country. Now, you can get it—at the lowest price ever placed on an 8-tube set of like quality! See it—hear it—TODAY!

A GREAT RADIO VALUE **\$135⁰⁰**

*less tubes
Delivered on Small
Down Payment*



TUDOR PERIOD CONSOLE

New Model 23. With the world's champion Stewart-Warner Screen-Grid Radio and built-in Electro-Dynamic Reproducer. Handsome dull walnut finish.

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Operating

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WEstmore 2411

LOS ANGELES, CALIF.

"Distributors for Southern California and Arizona"

Alphabetical Call List (Continued)

Call	Location	Freq.	Meters	Power	Log
WLIB-WGN	(See WGN-WLIB)				
WLIT	Philadelphia, Pa.	560	535.4	500	
WLOE	Chelsea, Mass.; S—Boston	LS 1500	199.9	250	
WLS	Crete, Ill.; S—Chicago	870	344.6	5000	
WLSI-WDWF	(See WDWF-WLSI)				
WLTH	Brooklyn, N. Y.	1400	214.2	500	
WLW	Mason, Ohio; S—Cincinnati	LP 700	428.3	50000	
WLWL	Kearny, N. Y.; S—New York City	1100	272.6	5000	
WMAC	Cazenovia, N. Y.	570	526.0	250	
WMAF	S. Dartmouth, Mass.	1360	220.4	500	
WMAK	Martinsville, N. Y.; S—Buffalo	900	333.1	750	
WMAL	Washington, D. C.	630	475.9	500	
WMAN	Columbus, Ohio	1210	247.8	50	
WMAQ	Addison, Ill.	670	447.5	5000	
WMAY	St. Louis, Mo.	LS 1200	249.9	250	
WMAZ	Macon, Ga.	LS 890	336.9	500	
WNBA	Newport, R. I.	1500	199.9	100	
WMBC	Detroit, Mich.	1420	211.1	100	
WMBD	Peoria Hts., Ill.	LS 1440	208.2	1000	
WMBG	Richmond, Va.	1210	247.8	100	
WMBH	Joplin, Mo.	LS 1420	211.1	250	
WMBI	Chicago, Ill.	LT 1080	277.6	5000	
WMBO	Auburn, N. Y.	1370	218.8	100	
WMBQ	Brooklyn, N. Y.	1500	199.9	100	
WMBR	Tampa, Fla.	1210	247.8	100	
WMC	Memphis, Tenn.	LS 780	384.4	1000	
WMCA	Hoboken, N. J.; S—N. Y. City	570	526.0	500	
WMES	Boston, Mass.	1500	199.9	50	
WMMN	Fairmont, W. Va.	LS 890	336.9	500	
WMPC	Lapeer, Mich.	1500	199.9	100	
WMRJ	Jamaica, N. Y.	1420	211.1	10	
WMSG	New York, N. Y.	1350	222.1	250	
WMT	Waterloo, Iowa	600	499.7	250	
WNAC-WBIS	Quincy, Mass.; S—Boston	1230	243.8	1000	
WNAD	Norman, Okla.	1010	296.9	500	
WNAT	Philadelphia, Pa.	1310	228.9	100	
WNAX	Yankton, S. D.	570	526.0	1000	
WNBF	Binghamton, N. Y.	1500	199.9	50	
WNBH	New Bedford, Mass.	1310	228.9	100	
WNBJ	Knoxville, Tenn.	1310	228.9	50	
WNBO	Washington, Pa.	1200	249.9	100	
WNBR	Memphis, Tenn.	1430	209.7	500	
WNBW	Carbondale, Pa.	1200	249.9	10	
WNBX	Springfield, Vt.	1200	249.9	10	
WNBZ	Saranac Lake, N. Y.	D 1290	232.4	50	
WNJ	Newark, N. J.	1450	206.8	250	
WNOX	Knoxville, Tenn.	LS 560	535.4	2000	
WNRC	Greensboro, N. C.	1440	208.2	250	
WNYC	New York, N. Y.	570	526.0	500	
WOAI (CP)	San Antonio, Texas	1190	252.0	50000	
WOAN	Lawrenceburg, Tenn.	600	599.7	500	
WOAX	Trenton, N. J.	1280	234.2	500	
WOBT	Union City, Tenn.	LS 1310	228.9	250	
WOBV	Near Charleston, W. Va.	580	516.9	250	
WOC	Davenport, Iowa	1000	298.8	5000	
WOCL	Jamestown, N. Y.	1210	247.8	25	
WODA	Paterson, N. J.	1250	239.0	1000	
WODX	Springhill, Ala.; S—Mobile	1410	212.6	500	
WOI	Ames, Iowa	D 640	468.5	5000	

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Alphabetical Call List (Continued)

Call	Location	Freq.	Meters	Power	Log
WOK-WMBB	(See WMBB-WOK)				
WOKO	Mt. Beacon, N. Y.; S—Poughkpse	1440	208.2	500	
WOL	Washington, D. C.	1310	228.9	100	
WOMT	Manitowoc, Wis.	1210	247.8	100	
WOOD	Grand Rapids, Mich.	1270	236.1	500	
WOPI (CP)	Bristol, Tenn.	1500	199.9	100	
WOQ	Kansas City, Mo.	610	491.5	1000	
WOR	Kearney, N. J.; S—Newark, N. J.	710	422.3	5000	
WORC	Auburn, Mass.	1200	249.9	100	
WORD	Batavia, Ill.; S—Chicago, Ill.	1480	202.6	5000	
WOS	Jefferson City, Mo.	LS 630	475.9	500	
WOV	Secaucus, N. J.; S—N. Y. City	D 1130	265.3	1000	
WOW	Omaha, Nebr.	590	508.2	1000	
WOWO (CP)	Ft. Wayne, Ind.	1160	258.5	10000	
WPAP-WQAO	(See WQAO-WPAP)				
WPAW	Pawtucket, R. I.	1210	247.8	100	
WPCC	Chicago, Ill.	560	535.4	500	
WPCH	Hoboken, N. Y.; S—N. Y. City	D 810	370.2	500	
WPEN	Philadelphia, Pa.	LS 1500	199.9	250	
WPG	Atlantic City, N. J.	1100	272.6	5000	
WPOE	Patchogue, N. Y.	LS 1370	218.8	100	
WPOR-WTAR	(See WTAR-WPOR)				
WPSC	State College, Pa.	D 1230	243.8	500	
WPTF	Raleigh, N. C.	LT 680	440.9	1000	
WQAM	Miami, Fla.	1240	241.8	1000	
WQAN	Scranton, Pa.	880	340.7	250	
WQAO-WPAP	Cliffside, N. Y.; S—N. Y. City	1010	296.9	250	
WQBC	Utica, Miss.	1360	220.4	300	
WQBZ	Weirton, W. Va.	1420	211.1	60	
WRAF	LaPorte, Ind.	1200	249.9	100	
WRAK	Erle, Pa.	1370	218.8	50	
WRAW	Reading, Pa.	1310	228.9	100	
WRAX	Philadelphia, Pa.	D 1020	293.9	250	
WRBI	Tifton, Ga.	1310	228.9	20	
WRBJ	Hattiesburg, Miss.	1500	199.9	100	
WRHL	Columbus, Ga.	1200	249.9	50	
WRBQ	Greenville, Miss.	1210	247.8	100	
WRBT	Wilmington, N. C.	1370	218.8	100	
WRBU	Gastonia, N. C.	1210	247.8	100	
WRC	Washington, D. C.	950	315.6	500	
WREC	Whitehaven, Tenn.; S—Memphis	LS 600	499.7	1000	
WREN	Lawrence, Kans.	1220	245.8	1000	
WRHM	Fridley, Minn.; S—Minneapolis	1250	239.0	1000	
WRJN	Racine, Wis.	1370	218.8	100	
WRK	Hamilton, Ohio	1310	228.9	100	
WRNY	Coytesville, N. J.; S—N. Y. City	1010	296.9	250	
WRR	Dallas, Texas	1280	234.2	500	
WRUF	Gainesville, Fla.	1470	204.0	5000	
WRVA (CP)	Richmond, Va.	1110	270.1	5000	
WSAI	Harrison, Ohio.; S—Cincinnati	1330	225.4	500	
WSAJ	Grove City, Pa.	1310	228.9	100	
WSAN	Allentown, Pa.	1440	208.2	250	
WSAR	Fall River, Mass.	1450	206.8	250	
WSAZ	Huntington, W. Va.	580	516.9	250	
WSB (CP)	Atlanta, Ga.	740	405.4	5000	
WSBC	Chicago, Ill.	1210	247.8	100	
WSBT	South Bend, Ind.	1230	243.8	500	
WSGH-WSDA	Brooklyn, N. Y.	1400	214.2	500	
WSGP (CP)	Savannah, Ga.	1410	212.6	1000	

Alphabetical Call List (Continued)

Call	Location	Freq.	Meters	Power	Log
WSIX	Springfield, Tenn.	1210	247.8	100	
WSJS (CP)	Winston-Salem, N. C.	1310	228.9	100	
WSM	Nashville, Tenn.	650	461.3	5000	
WSMB	New Orleans, La.	1320	227.1	500	
WSMK	Dayton, Ohio	1380	217.4	20	
WSOA	Deerfield, Ill.; S—Forest Park	1480	202.6	5000	
WSPD	Toledo, Ohio	LS 1340	223.7	500	
WSSH	Boston, Mass.	LS 1360	220.4	500	
WSUI	Iowa City, Iowa	580	516.9	500	
WSUN-WFLA	(See WFLA-WSUN)				
WSVS	Buffalo, N. Y.	1370	218.8	50	
WSYR	Syracuse, N. Y.	570	526.0	250	
WTAD	Quincy, Ill.	1440	208.2	500	
WTAG	Worcester, Mass.	580	516.9	250	
WTAM	Cleveland, Ohio	1070	280.2	50000	
WTAQ	Eau Claire, Wis.	1330	226.4	1000	
WTAR-WPOR	Norfolk, Va.	780	384.4	500	
WTAW	College Station, Texas	1120	267.7	500	
WTAX	Streator, Ill.	1210	247.8	50	
WTBO	Cumberland, Md.	1420	211.1	50	
WTFI	Toccoa, Ga.	1450	206.8	250	
WTIC	Avon, Con.; S—Hartford	LP 1060	282.8	25000	
WTMJ	Brookfield, Wis.; S—Milwaukee	LS 620	483.6	1000	
WTNT	Nashville, Tenn.	1490	201.2	5000	
WTOC	Savannah, Ga.	1360	220.4	500	
WWAE	Hammond, Ind.	1200	249.9	100	
WWJ	Detroit, Mich.	920	325.9	1000	
WWL	New Orleans, La.	850	352.7	5000	
WWNC	Asheville, N. C.	570	526.0	1000	
WWRL	Woodside, N. Y.	1500	199.9	100	
WWVA	Wheeling, W. Va.	LS 1160	258.5	5000	

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Latest Station Changes—last but not least—the detail programs of all the large
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Log of Western Stations

CALIFORNIA				OREGON				COLORADO				
Call	Kc.	Mtrs.	Log	Call	Kc.	Mtrs.	Log	Call	Kc.	Mtrs.	Log	
KTAB	560	535.4		KOAC	550	545.1		KLZ	560	535.4		
KMTR	570	526.0		KGW	620	483.6		KOA	830	361.2		
KFSD	600	499.7		KOIN	940	319.0		KFKA	880	340.7		
KFRC	610	491.5		KWJJ	1060	282.8		KPOF	880	340.7		
KFI	640	468.5		KEX	1180	254.1		KFEL	630	475.9		
KPO	680	440.9		KFJR	1300	230.6		KFXF	630	475.9		
KEJK	710	422.3		KTBR	1300	230.6		KFHA	1200	249.9		
KELW	780	384.4		KMED	1310	228.9		KGEK	1200	249.9		
KTM	780	384.4		KFJI	1370	218.8		KGEW	1200	249.9		
KGO	790	379.5		KFIF	1420	211.1		KFUM	1270	236.1		
KFQZ	860	348.5		KORE	1420	211.1		KFUP	1310	228.9		
KLX	880	340.7		KXL	1420	211.1		KFXJ	1310	228.9		
KHJ	900	333.1		KVEP	1500	199.9		KGHF	1320	227.1		
KFWI	930	322.4						KGIW	1420	211.1		
KFWM	930	322.4		WASHINGTON								
KFWB	950	315.6		KXA	570	526.0		ARIZONA				
KFVD	1000	299.8		KHQ	590	508.2		KFAD	620	483.6		
KQW	1000	299.8		KJR	760	394.5		KVOA	1260	238.0		
KNX	1050	285.5		KVI	920	325.9		KGAR	1370	218.8		
KJBS	1070	280.2		KOMO	970	309.1		KOY	1390	215.7		
KGDM	1100	272.6		KRSC	1120	267.7		KFXY	1420	211.1		
KFSG	1120	267.7		KGY	1200	249.9		KPJM	1500	199.9		
KMIC	1120	267.7		KVOS	1200	249.9						
KGFJ	1200	249.9		KPCB	1210	247.8		UTAH				
KWG	1200	249.9		KPQ	1210	247.8		KSL	1130	265.3		
KSMR	1200	249.9		KFIO	1230	243.8		KDYL	1290	232.4		
KXO	1200	249.9		KOL	1270	236.1		KLO	1370	218.8		
KFXM	1210	247.8		KTW	1270	236.1						
KMJ	1210	247.8		KXRO	1310	228.9		IDAHO				
KPPC	1210	247.8		KFPY	1340	223.7		KSEI	900	333.1		
KFOX	1250	239.0		KMO	1340	223.7		KIDO	1250	239.0		
KGEF	1300	230.6		KFBL	1370	218.8		KGIQ	1320	227.1		
KTBI	1300	230.6		KIT	1370	218.8		KID	1320	227.1		
KFBK	1310	228.9		KVL	1370	218.8		KFXD	1420	211.1		
KGB	1330	225.4		KWSC	1390	215.7		KGKX	1420	211.1		
KGER	1360	220.4		KFQW	1420	211.1						
KPSN	1360	220.4		KGA	1470	204.1		MONTANA				
KRE	1370	218.8		KUJ	1500	199.9		KUOM	570	526.0		
KGGC	1420	211.1						KGHL	950	315.6		
KFQU	1420	211.1		NEVADA				KGCX	1310	228.9		
KECA	1430	209.7		KOH	1370	218.8		KGEZ	1310	228.9		
KLS	1440	208.2		KGIX	1420	211.1		KFBB	1360	220.4		
KDB	1500	199.9						KGIR	1360	220.4		
WYOMING				NEW MEXICO								
KDFN	1210	247.8		KOB	1180	254.1						
				KGFL	1370	218.8						
				KGGM	1370	218.8						

Geographical List of U. S. Stations

- ALABAMA**
 Birmingham ... WAPI
 WBRC, WKBC
 Gadsden ... WJBY
 Springfield ... WODX
- ALASKA**
 Anchorage ... KFQD
 Ketchikan ... KGBU
- ARIZONA**
 Flagstaff ... KFXV
 Phoenix ... KFAD, KOY
 Prescott ... KPJM
 Tucson ... KGAR, KVOA
- ARKANSAS**
 Blytheville ... KLCN
 Fayetteville ... KUOA
 Hot Springs ... KTHS
 Little Rock ... KGH
 KGJP, KLRA
 Siloam Springs KFPW
- CALIFORNIA**
 Berkeley ... KRE
 Beverly Hills ... KEJK
 Burbank ... KELW
 Culver City ... KFVD
 El Centro ... KXO
 Fresno ... KMJ
 Hollywood ... KFQZ,
 KFWE, KMTR, KNX
 Holy City ... KFQU
 Inglewood ... KMIC
 Long Beach ... KFOC,
 KGER
 Los Angeles ... KFI,
 KFSG, KGEF,
 KGFJ, KHJ, KECA,
 KTBI
 Oakland ... KGO,
 KLS, KLX, KTAB
 Pasadena ... KPPC,
 KPSN
 Sacramento ... KFBK
 Santa Barbara ... KDB
 San Bernardino ... KFXM
 San Diego ... KFSD, KGB
 San Francisco ... KFRC,
 KFWI, KFWM,
 KGGC, KJBS,
 KPO
 San Jose ... KQW
 Santa Monica ... KTM
 Santa Maria ... KSMR
 Stockton ... KGDM, KWG
- COLORADO**
 Colo. Springs ... KFUM
 Denver ... KFEL, KFUP,
 KLZ, KFNF, KOA,
 KPOF
 Edgewater ... KFXJ
 Fort Morgan ... KGEV
 Gunnison ... KFHA
 Greeley ... KFKA
 Pueblo ... KGHF
 Trinidad ... KGHW
 Yuma ... KGEK
- CONNECTICUT**
 Bridgeport ... WICC
 Hartford ... WTIC
 New Haven ... WDRC
 Storrs ... WCAC
- DELAWARE**
 Wilmington ... WDEL-
 WILM
- DIST. OF COLUMBIA**
 Washington ... WMAL,
 WOL, WRC
- FLORIDA**
 Clearwater ... WFLA-
 WSUN
 Gainesville ... WRUF
 Jacksonville ... WJAX
 Miami Beach ... WIOD,
 WQAM
 Orlando ... WDBO
 Pensacola ... WCOA
 Tampa ... WDAE,
 WMBR
- GEORGIA**
 Atlanta ... WGST, WSB
 Columbus ... WRBL
 Macon ... WMAZ
 Tifton ... WRBI
 Toccoa ... WTFI
 Savannah ... WTOC,
 WSGP
- HAWAII**
 Honolulu ... KGU
- IDAHO**
 Boise ... KIDO
 Idaho Falls ... KID
 Jerome ... KFSD
 Pocatello ... KSEI
 Sandpoint ... KGKX
 Twin Falls ... KGIQ
- ILLINOIS**
 Bloomington ... KYW-
 KFXX
 Carthage ... WCAZ
 Chicago ... WAAF,
 WBBM-WJBT,
 WGES, WCFB,
 WCRW, WEDC,
 WENR, WIBO,
 WJAZ, WKBI, WLS,
 WMAQ, WMBI,
 WORD, WPCC,
 KYWA
 Cicero ... WHFC
 Decatur ... WJBL
 Elgin ... WGN-WLBI
 Evanston ... WEHS
 Forest Park ... WSOA
 Galesburg ... WKBS
 Harrisburg ... WEBQ
 Joliet ... WCLS, WKBB
 La Salle ... WJBC
 Moseheart ... WJJD
 Peoria Heights ... WMBD
 Quincy ... WTAD
 Rockford ... KFLV
 Rock Island ... WHBF
 Springfield ... WCBS
 Streator ... WTAX
 Tuscola ... WDZ
 Urbana ... WILL
 Zion ... WCBF
- INDIANA**
 Anderson ... WHBU
 Brookville ... WKBV
- Culver ... WCMA
 Evansville ... WGBF
 Fort Wayne ... WGL,
 WOWO
 Gary ... WJKS
 Hammond ... WVAE
 Indianapolis ... WFBM,
 WKBF
 Lafayette ... WBAA
 La Porte ... WRAF
 Marion ... WJAK
 Muncie ... WLBC
 South Bend ... WSBT
 Terra Haute ... WBOW
- IOWA**
 Ames ... WOI
 Boone ... KFQG
 Cedar Rapids ... KWCR
 Clarinda ... KSO
 Council Bluffs ... KOIL
 Davenport ... WOC
 Decorah ... KGCA,
 KWLC
 Des Moines ... WHO
 Fort Dodge ... KFJY
 Iowa City ... WSUI
 Marshalltown ... KFJB
 Muscatine ... KTNT
 Ottumwa ... WIAS
 Red Oak ... KICK
 Shenandoah ... KFNF
 KMA
 Sioux City ... KSCJ
 Waterloo ... WMT
- KANSAS**
 Lawrence ... WREN,
 KFBU
 Manhattan ... KSAC
 Milford ... KFKB
 Topeka ... WIBW
 Wichita ... KFH
- KENTUCKY**
 Hopkinsville ... WFTW
 Louisville ... WHAS,
 WLAP
- LOUISIANA**
 Kennonwood ... KWKH
 New Orleans ... WABZ,
 WDSU, WJBO,
 WJBW, WSMB,
 WWL
 Shreveport ... KRMD,
 KTBS, KTSL,
 KWEA
- MAINE**
 Portland ... WCSH
 Bangor ... WABI, WLBZ
- MARYLAND**
 Baltimore ... WBAL,
 WCAO, WCBM,
 WFBR
 Cumberland ... WTBO
- MASSACHUSETTS**
 Auburn ... WORC
 Babson Park ... WBOS
 Boston ... WBZA,
 WMES, WNAC-
 WBIS, WSSH
- Chelsea ... WLOE
 Dartmouth ... WMAF
 Fall River ... WWSR
 Gloucester ... WHDH
 Lexington ... WLEX,
 WLEY
 New Bedford ... WNBH
 Springfield ... WBZ
 Weymouth ... WEEI
 Worcester ... WTAG
- MICHIGAN**
 Battle Creek ... WKBP
 Bay City ... WBCM
 Berrien Spings ... WEMC
 Calumet ... WHDF
 Detroit ... WGHP, WJR
 WMBG, WWJ
 Flint ... WFDF
 Grand Rapids ... WASH,
 WOOD
 Jackson ... WIBM
 Lansing ... WKAR
 Lapeer ... WMPC
 Ludington ... WKBZ
 Royal Oak ... WAGM
 Ypsilanti ... WJBK
- MINNESOTA**
 Collegeville ... WFBJ
 Fergus ... KGDE
 Hallock ... KGFK
 Minneapolis ... WCCO,
 WGDY, WHDI,
 WLB, WRHM
 Northfield ... WCAL,
 KFMX
 St. Paul ... KSTP
- MISSISSIPPI**
 Greenville ... WRBQ
 Gulfport ... WGCM
 Hattiesburg ... WRBJ
 Meridian ... WCOC
 Utica ... WQBC
- MISSOURI**
 Cape Girardeau ... KFVS
 Clayton ... KFUD
 Columbia ... KFRU
 Independence ... KMBC
 Jackson ... WJDX
 Jefferson City ... WOS
 Joplin ... WMBH
 Kansas City ... WDAF,
 WLBZ, WOQ, WHB,
 KWKC
 Kirkwood ... KMOX-
 KFQA
 St. Joseph ... KFEQ,
 KGBX
 St. Louis ... WEW,
 WIL, KFWF,
 WMAJ, KSD, KWK
- MONTANA**
 Billings ... KGH
 Butte ... KGR
 Great Falls ... KFBE
 Kalispell ... KGEZ
 Missoula ... KUOM
 Wolf Pt. ... KGXC
- NEBRASKA**
 Lincoln ... WCAJ,
 Omaha ... WAAW, WOW
 KFAB, KFOR

Geographical List--Cont.

Clay Center...KMMJ
Norfolk.....WJAG
Ravenna.....KGFV
York.....KGBZ

NEVADA

Las Vegas.....KGIX
Reno.....KOH

NEW HAMPSHIRE

Laconia.....WKAV
Tilton.....WBRL

NEW JERSEY

Asbury Park...WCAP
Atlantic City...WPG
Camden.....WCAM
Fort Lee.....WBMS
Jersey City...WAAT
WKBO
Kenilworth....WIBS
Newark.....WAAM
Newark.....WGCP,
WNJ, WOR
Paterson.....WODA
Red Bank.....WJBI
Trenton.....WOAX

NEW MEXICO

Albuquerque...KGGM
Raton.....KGFV
State College...KOB

NEW YORK

Astoria.....WGBS
Amherst.....WGR
Auburn.....WMBO
Bay Shore.....WINR
Binghamton...WNBFB
Brooklyn.....WLTH,
WMBQ, WSGH-
WSDA
Buffalo.....WEBR,
WKBW, WKEN,
WMAK, WSVS
Canton.....WCAD
Cazenovia.....WMAC
Coney Island...WCGU
Freeport.....WGBB
Greenville....WCOH
Ithaca.....WEAI, WLCI
Jamaica.....WMRJ
Jamestown...WOCL
Long Isl. City...WLBX
New York.....WABC-
WBOQ, WBBC,
WBNY, WCDA,
WEAF, WEVD,
WHAP, WHN,
WIBX, WJZ,
WKBQ, WLWL,
WMCA, WMSG,
WNYC, WOV,
WPCH, WQAQ-
WPAP, WRNY
Patchogue...WPOE
Poughkeepsie...WOKO
Rochester....WHAM,
WHEC, WABO
Rossville.....WBBR
Saranac.....WNBZ
Schenectady...WGY
Syracuse.....WFBL,
WSYR
Troy.....WHAZ
Tupper Lake...WHDL
Woodside.....WWRL

NORTH CAROLINA
Asheville.....WWNC
Raleigh.....WPTF
Charlotte.....WBT
Gastonia.....WRBU
Greensboro...WNRC
Wilmington...WRBT
Winston-Salem...WSJC

NORTH DAKOTA

Bismarck.....KFYR
Devils Lake...KDLR
Fargo.....WDAY
Grand Forks...KFJM
Mandan.....KGCU
Minot.....KLPM

OHIO

Akron...WADC, WFJC
Bellefontaine...WHBD
Cambridge....WEBC
Canton.....WHBC
Cincinnati....WKRC,
WSAI
Cleveland....WEAR,
WJAY, WTAM
Columbus.....WAIU,
WCAH, WEAQ,
WMAN
Dayton.....WSMK
Hamilton.....WRK
Harrison.....WCKY
Independence...WHK
Mansfield.....WJW
Mason.....WLW
Springfield...WCOS
Steubenville...WIBR
Toledo.....WSPD
Youngstown...WKBN

OKLAHOMA

Alva.....KGFV
Chickasha....KOCW
Enid.....KCRK
Norman.....WNAD
Oklahoma City...WKY,
KFJK, KFJR,
KGFV
Picher.....KGGF
Ponca City...WBBZ
Tulsa.....KVOO

OREGON

Astoria.....KFJI
Corvallis....KOAC
Eugene.....KORE
Marshfield...KOOS
Medford.....KMED
Portland.....KEX,
KFIE, KFJR, KGW,
KOIN, KTRB,
KVEP, KWJJ, KXL

PENNSYLVANIA

Allentown....WCBA,
WSAN
Altoona.....WFBJ
Bear Creek...WBAX
Carbondale...WNBW
Elkins Park...WIBG
Erie.....WEDH, WRAK
Grove City...WSAJ
Harrisburg...WBAK,
WHP, WCOD

Johnstown....WJAC
Lancaster....WGAL,
WKJC
Lewisburg....WJBU
Oil City.....WLBW
Philadelphia...WCAU,
WELK, WFAN,
WFI, WFKD, WIP,
WLIT, WNAT,
WPEN, WRAX
Pittsburg....WCAE,
WJAS, KQV
Reading.....WRAW
Saxenburg....KDKA
Scranton.....WGBI,
WQAN
Washington...WNBO
Wilkes-Barre..WBRE

PORTO RICO

San Juan.....WKAQ

RHODE ISLAND

Cranston....WDFW-
WLSI
Newport.....WMBA
Pawtucket...WPAW
Providence...WEAN,
WJAR

SOUTH CAROLINA

Charleston...WBBY

SOUTH DAKOTA

Brookings....KFDY
Dell Rapids...KGDA
Oldham.....KGDY
Pierre.....KGFV
Rapid City...WCAT
Sioux Falls...KSOO
Vermillion...KUSD
Watertown...KGRK
Yankton.....WNAX

TENNESSEE

Nashville...WBAW,
WLAC, WSM
Bristol.....WOPI
Chattanooga...WDOD
Knoxville....WFBC,
WNBK, WNOX
Lawrenceburg...WOAN
Memphis.....WGBC,
WBBQ, WMC,
WNRB
Springfield...WSIX
Union City...WOBT
Whitehaven...WREC

TEXAS

Ablene.....KFYO
Amarillo....WDAG,
KGRS
Austin.....KUT
Beaumont....KFDM
Brownsville...KWGW
Brownwood...KGKB
College Sta...WTAW
Corpus Christi...KGFV
Dallas.....WFAA,
WRR, KRLD
Dublin.....KFPL
El Paso.....KTSM,
WDAH

Fort Worth...WBAP,
KFJZ, KSAT
Galveston....KFLX,
KFUL
Greenville....KPFM
Harlingen....KRGV
Houston KPRC, KTUE
Richmond....KGHX
San Angelo...KGGK
San Antonio...WOAI,
KGCJ, KGRC, KTAP,
KTTA

Waco.....WJAD
Wichita Falls..KGGK

UTAH

Ogden.....KLO
Salt Lake KDYL, KSL

VERMONT

Springfield...WNBX
Burlington....WCAX

VIRGINIA

Emory.....WEHC
Ettrick.....WLBG
Mt. Vernon Hills...WJSV
Newport.....WGH
Norfolk WTAR-WPOR
Richmond....WBBL,
WMBG, WRVA
Roanoke.....WDBJ

WASHINGTON

Aberdeen....KXRO
Bellingham...KVOS
Everett.....KFBK
Lacey.....KGY
Longview.....KUJ
Pullman.....KWSC
Seattle...KFPW, KOL,
KOMO, KPQB, KPQ,
KRSC, KTW, KVI,
KXA, KJR
Spokane KFIO, KFPY,
KHQ, KGA
Tacoma.....KMO, KVI
Yakima.....KIT

WEST VIRGINIA

Bluefield....WHIS
Charleston...WOBU
Fairway.....WMMN
Huntington...WSAZ
Weirton.....WQBZ
Wheeling....WVVA

WISCONSIN

Beloit.....WEBW
Eau Claire....WTAQ
Fond du Lac...KFJZ
Kenosha.....WCLO
La Crosse....WKBH
Madison, WIBA, WHA
Manitowac...WOMT
Milwaukee...WHAD,
WISN, WTMJ
Poynette....WIBU
Racine.....WRJN
Sheboygan...WHBI
Stevens Point..WLBI
Superior.....WBEC
West De Pere...WBHY

WYOMING

Casper, Wyo...KDFN

Trans-Pacific Stations

From Latest Available Information

Australia

Call	Location	Meters	Power	Log	Remarks
5CL	Adelaide	395	1000		
2MK	Bathurst				
4QG	Brisbane	385	1000		
3LO	Melbourne	371	1000		
6WF	Perth	1250	1000		
2BL	Sydney	353	1000		
2FC	Sydney	442	2000		
2GB	Sydney	326	1500		

Tasmania

7ZL	Hobart	525	3000		
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New Zealand

1YA	Auckland	333	500		
2YA	Wellington	420	5000		
3YA	Christchurch	400	500		
4YA	Dunedin	463	500		


China

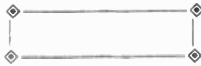
COHB	Kharbin	445	1000		
COMK	Mukden	425	2000		
GOW	Hongkong	300	1500		
XOL	Tientsin	480	500		

Japan

JFAK	Taihoku, Taiwan	350	1000		
JOAK	Tokyo	375	1000		
JOAK	Tokyo	345	10000		
JOBK	Osaka	400	10000		
JOCK	Nagoya	370	1000		
JODK	Keijo	366	1000		
JOFK	Hiroshima	353	10000		
JOGK	Kumamoto	380	10000		
JOHK	Sendai	390	10000		
JOIK	Sapporo	361	10000		
JQAK	Dairen (Kwangtung)	395	5000		


Alaskan Stations

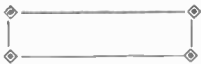
CHANNEL No. 36  **900 Kcys., 333.1 Meters**
KGBU 500 watts Ketchikan.....Alaska Radio & Service Co.

CHANNEL No. 69  **1230 Kcys., 243.8 Meters**
KFQD 100 watts Anchorage.....Anchorage Radio Club


Cuban Stations

CHANNEL No. 26  **800 Kcys., 374.8 Meters**
CMH 500 watts Habana

CHANNEL No. 30  **840 Kcys., 356.9 Meters**
CMC 500 watts Habana.....Cuban Tel. Co.
Occasionally on 810-820 Kcys.

CHANNEL No. 38  **920 Kcys., 325.9 Meters**
CMSLO 250 watts Calbarien

Hawaiian Stations

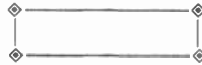
CHANNEL No. 40  **940 Kcys., 319.0 Meters**
KGU 500 watts Honolulu.....M. A. Mulrony & Advt. Pub. Co., Ltd.

Porto Rican Stations

CHANNEL No. 35  **890 Kcys., 336.9 Meters**
WKAQ 500 watts San Juan.....Radio Corp. of Puerto Rico

Canadian Stations

CHANNEL No. 4



580 Kcys., 516.9 Meters

CHMA	250 watts	Edmonton, Alta.....	Christian and Miss. Alliance
CJBC	500 watts	Toronto, Ont.....	Jarvis St. Baptist Church
CJCA	500 watts	Near Edmonton, Alta.....	Edmonton Journal, Ltd.
CJSC	500 watts	Toronto, Ont.....	Evening Telegram
CKCL	500 watts	Toronto, Ont.....	Dominion Battery Co.
CKNC	500 watts	Toronto, Ont.....	Canadian Nat'l Carbon, Ltd.
CKUA	500 watts	Edmonton, Alta.....	Univ. of Alberta
CNRE	500 watts	Edmonton, Alta.....	Canadian Nat'l R. R.

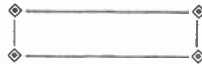
CHANNEL No. 6



600 Kcys., 499.7 Meters

CFCH	250 watts	Iroquois Falls, Ont....	Abitibi Power & Paper Co., Ltd.
CJRM	500 watts	Moose Jaw, Sask.....	James Richardson & Sons, Ltd.
CJRW	500 watts	Fleming, Sask.....	James Richardson & Sons, Ltd.
CNRO	500 watts	Ottawa, Ont.....	Canadian Nat'l R. R.

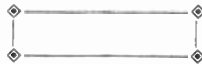
CHANNEL No. 9



630 Kcys., 475.9 Meters

CFCT	500 watts	Victoria, B. C.....	Victoria Broadcasting Association
CJGX	500 watts	Yorkton, Sask.....	Winnipeg Grain Exchange
CNRA	500 watts	Moncton, N. B.....	Canadian Nat'l R.R.

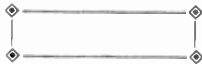
CHANNEL No. 15



690 Kcys., 434.5 Meters

CFAC	500 watts	Calgary, Alta.....	The Calgary Herald
CFCN	500 watts	Calgary, Alta.....	Western Broadcasting Co.
CHCA	500 watts	Calgary, Alta.....	Western Farmer
CJ CJ	500 watts	Calgary, Alta.....	Albertan Publ. Co., Ltd.
CKCO	100 watts	Ottawa, Ont.....	Dr. G. M. Geldert
CKGW	5000 watts	Rowmanville, Ont.....	Godderham and Worts, Ltd.
CNRC	500 watts	Calgary, Alta.....	Canadian Nat'l R. R.

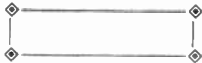
CHANNEL No. 19



730 Kcys., 410.7 Meters

CHLS	50 watts	Vancouver, B. C.....	W. G. Hassell
CHYC	500 watts	Montreal, P. Q.....	Northern Elec. Co., Ltd.
CKAC	5000 watts	Montreal, P. Q.....	La Presse Pub. Co., Ltd.
CKCD	50 watts	Vancouver, B. C.....	Vancouver Daily Province
CKFC	50 watts	Vancouver, B. C.....	United Church of Canada
CKMO	50 watts	Vancouver, B. C.....	Sprott-Shaw Radio Co.
CKWX	100 watts	Vancouver, B. C.....	A. Holstead and Wm. Hanlon
CNRM	5000 watts	Montreal, P. Q.....	Canadian Nat'l R. R.

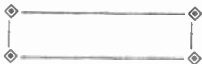
CHANNEL No. 24



780 Kcys., 384.4 Meters

CKY	5000 watts	Winnipeg, Man.....	Manitoba Telephone System
CNRW	5000 watts	Winnipeg, Man.....	Canadian Nat'l R. R.

CHANNEL No. 30



840 Kcys., 356.9 Meters

CFCA	500 watts	Toronto, Ont.....	Star Publ. & Printing Co.
CHCT	1000 watts	Red Deer, Alta.....	G. F. Tull & Ardern, Ltd.
CJBC	1000 watts	Toronto, Ont.....	Jarvis St. Baptist Church
CKLC	1000 watts	Red Deer, Alta.....	Alberta Pac. Grain Co., Ltd.
CKOW	500 watts	Toronto, Ont.....	Nestle's Food Co. of Canada
CNRT	500 watts	Toronto, Ont.....	Canadian Nat'l R. R.

CHANNEL No. 34

880 Kcys., 340.7 Meters

CHCS	10 watts	Hamilton, Ont.	Hamilton Spectator
CHML	50 watts	Hamilton, Ont.	Maple Leaf Radio Co., Ltd.
CHRR	100 watts	Quebec, P. Q.	E. Fontaine
CJCB	50 watts	Sidney, N. S.	N. Nathanson
CKCI	22½ watts	Quebec, P. Q.	Le "Soleil" Ltd.
CKCV	50 watts	Quebec, P. Q.	G. A. Vandry
CKOC	50 watts	Hamilton, Ont.	Wentworth Radio & Auto Supply
CNRQ	50 watts	Quebec, P. Q.	Canadian Nat'l R. R.

CHANNEL NO. 35

890 Kcys., 336.9 Meters

CFBO	50 watts	St. John, N. B.	C. A. Munro, Ltd.
CKCO	100 watts	Ottawa, Ont.	Dr. G. M. Geldert

CHANNEL No. 37

910 Kcys., 329.5 Meters

CFQC	500 watts	Saskatoon, Sask.	The Electric Shop, Ltd.
CJGO	500 watts	London, Ont.	London Free Press & Printing Co.
CJHS	250 watts	Saskatoon, Sask.	Radio Service, Ltd.
CNRL	500 watts	London, Ont.	Canadian Nat'l R. R.
CNRS	500 watts	Saskatoon, Sask.	Canadian Nat'l R. R.

CHANNEL No. 39

930 Kcys., 322.4 Meters

CHNS	500 watts	Halifax, N. S.	Halifax Herald, Ltd.
CKIC	50 watts	Wolfville, N. S.	Acadia University

CHANNEL No. 42

960 Kcys., 312.3 Meters

CFCR	500 watts	Regina, Sask.	Sydney I. Robinson
CFCY	250 watts	Charlottetown, P. E. I.	Island Radio Co.
CFRB	4000 watts	King, Ontario	Standard Radio Mfg. Corp., Ltd.
CHCK	30 watts	Charlottetown, P. E. I.	W. E. Burke
CHWC	500 watts	Pilot Butte, Sask.	R. H. Williams & Sons, Ltd.
CJBC	5000 watts	Toronto, Ont.	Jarvis St. Baptist Church
CJBR	500 watts	Regina, Sask.	Operative Wheat Producers, Ltd.
CKCK	500 watts	Regina, Sask.	Leader Pub. Co., Ltd.
CKGW	5000 watts	Bowmanville, Ont.	Gooderham & Worts, Ltd.
CNRR	500 watts	Regina, Sask.	Canadian Nat'l R. R.

CHANNEL No. 47

1010 Kcys., 296.9 Meters

CFLC	50 watts	Prescott, Ont.	Radio Association of Prescott
CKCR	50 watts	Waterloo, Ont.	John Patterson
CKSH	50 watts	St. Hyacinthe, P. Q.	City of St. Hyacinthe

CHANNEL No. 49

1030 Kcys., 291.1 Meters

CFCF	1650 watts	Montreal, P. Q.	Canadian Marconi Co.
CJOR	50 watts	Sea Island, B. C.	G. C. Chandler
CNRV	500 watts	Vancouver, B. C.	Canadian Nat'l R. R.

CHANNEL No. 58

1120 Kcys., 267.7 Meters

CFJC	15 watts	Kamloops, B. C.	Dalglish & Weller
CFRC	500 watts	Kingston, Ont.	Queen's University
CHGS	25 watts	Summerside, P. E. I.	R. T. Holman, Ltd.
CJOC	50 watts	Lethbridge, Alta.	Harold R. Carson
CKPR	50 watts	Midland, Ont.	Midland Broadcasting Corp.

CHANNEL No. 67

1210 Kcys., 247.8 Meters

CFGO	50 watts	Chatham, Ont.	Western Ontario "Better Radio" Club
CFNB	50 watts	Fredericton, N. B.	James Neil & Sons, Ltd.
CHWK	5 watts	Chilliwack, B. C.	Chilliwack Broadcasting Co. Ltd.
CKBC	15 watts	Cobalt, Ont.	R. L. MacAdam
CKPC	50 watts	Preston, Ont.	Wallace Rust

Short Wave Stations of the World

Latest Information

Changes in Wave Lengths and Call Letters frequently occur. Time is given as P. S. T. (Pacific Standard Time)

Call	Meters	Location	Call	Meters	Location
AFL—52		Bergedorf	GBL	} —17.5, 21.5, 24, 30, 56	Leaffield
AFJ—53.5		Konigswusterhausen	GBM		
AFU—39.7		Konigswusterhausen	GBO		
AGB—25.5, 26.6, 27		Nauen	GC—61		Paris
AGC—17.2, 26, 39.8, 40.2		Nauen	GFA—44		London
AGJ—56.7 (10 a. m. and 9 p. m.)		Nauen	GLH—22		Dorchester
AGK—11, 20		Nauen	GLQ—24.5		Ongar
AGK—11, 20		Nauen	GLS—15		Ongar
AFK—67.65 (10 p. m.)		Doerberitz	G2BR—15, 17		Chelmsford
AIN—51		Casablanca	G2NM—32.5 (8-10 a. m. and 10-11 p. m.)		Caterham
ANC—26.2, 40.2		Tjillin, Java	G2YT—25, 32, 60, 92, 94		Poldhu
AND—18.8, 28.8, 37.5		Tjillin, Java	G5DH—21.7, 27.6, 35.3, 47		Dollis Hill
ANE—17.4, 31.93		Bandoeng, Java	G5SW—25.33 (5 and 11 a. m.)		Chelmsford
ANF—20.3, 36.5		Tjillin, Java	HBC—34.2		Berne
ANH—17.4, 27, 32 (4:00-9:00 a. m.)		Malabar, Java	HJG—22		Bogota, Colombia
ANK—19.4, 30.20		Malabar, Java	HVA—32		Hanoi
AYG—31.8		Guayra, Venezuela	HZA—25		Salgon
BAM—40		Tahiti	HB9OC—32 (7-8 a. m.)		Berne
BVJ—46		Dartmouth	ICC—18		Coltano
BXY—35		Hongkong	ICD—63		Rome
B82—40		Ucce, Belgium	ICF—49		Messina
CG—16.5, 32.2		Montreal	ICJ—26, 53		Bengasi, Cyrenaica
CH—15 and 20		Quillicura, Chile	ICK—45		Tripoli
CJRX—25.6 (3-7 p. m.)		Winnepog	ICO—54		Derna, Cyrenaica
CRHA—18, 36		Lorenzo Marques	ICU—54		Tobruk, Cyrenaica
CRHB—18		Praia, Cape Verde Is.	ICX—47		Massawa
CRHC—18.1		Laonda, Angola	IDO—33-37.5		Rome
CT1AA—45		Lisbon	IDX—32.5, 64		Amara, Erythrea
CT3AG—47 (2-5 p. m.)		Funchal, Madeira Is.	IHF—53.5		Catania, Italy
DHC—26.22 (3-10 p. m.)		Nauen	IST—38		Chisimaio, It. Somaliland
DJMK—32.5		Copenhagen	IIAX—45		Rome
DOA—37, 67.65, 71.45, 82.9 (midnight-4 a. m.)		Doerberitz	IIFC—33, 34		Rome
DGW—14.9, 12.25, 13.5, 14.25, 16, 26 (6:00 a. m.-1:00 p. m.)		Nauen	IIMA—43 (9 to noon Sun.)		Rome
EAM—30.7 (9 a. m.)		Madrid	IRRG—10, 18, 35, 65		Lake Como
EATH		Vienna	JB—32		Johannesburg
EAR—43		Madrid	JBK—30, 40.5, 70		Kagoshima, Japan
EH9OC—32		Paris	JES—24-71		Osaka, Japan
EH9XD—32, 85		Zurich	JEW—24-71		Osaka, Japan
FL—32.5, 75 (Time Sig. 6:56 p. m. and 6:56 a. m.)		Paris (Eiffel Tower)	JFAB—39.5 (1 a. m.)		Taipei, Formosa
FW—14.28, 23.25, 24.5, 25, 41.95, 43		St. Assise, France	JHBB—37.5		Ibarakiken, Japan
FUA—42.5, 56, 73		Bizerta-Sidi-Abdullah, Tunis	JHL—32, 58, 74		Hiroshima, Japan
FUE—38.5		Mengam, France	JKV—37.5		Kanasawa, Japan
FUL—28, 80		Beyrouth	JOC—43		Otchishi, Japan
FUM—37		Montebourg	JPP—16-73		Tokio
FUT—36.5		Toulon	JPS—29, 38, 60		Sapporo
F8AV—80		Nogent-sur-Seine	JYB—16-73		Tokio
F8GA—30		Clichy	J1AA—40.5		Iwatsuki, Japan
F8GB—75		Paris	J1PP—20, 21.5, 35		Tokio
F8GC—60		Paris	KAV—39, 68		Norddeich
GBH—25.9		Grimsby	KDKA—26.3, 32.95, 43, 58.75, 62.5, 63.66 (3 p. m.)		East Pittsburgh, Pa.
			KIXR—30		Manila
			LCHO—33		Oslo
			LGN—31.25		Bergen
			LPI—34		Buenos Aires

Short Wave Stations of the World

Call	Meters	Location
LPZ	36.75	Buenos Aires
LP3	15.3	Monte Grande, Buenos Aires
LSG	15.2 (11 a. m.)	Buenos Aires
LY	32	Bordeaux
LL	60	Radio LL, France
NAA	24.9, 37.4, 74.7	Washington
NAJ	40, 76, 34	Great Lakes, Ill.
NBA	40	Pensacola, Fla.
NAS	54	Balboa, Canal Zone
NKF	80	Lakehurst, N. J.
NEL	16, 17, 20.8, 21.8, 25.5, 41.3, 54.4, 61, 71.3, 81.5	Bellevue
NPC	29, 37.4, 74.7	Arlington
NJL	37	Puget Sound, Wash.
NPO	16.49, 32.98	San Francisco
NPM	35 and 36.8	Honolulu
NPG	68, 70	Cavite, Philippine Is.
NPU	37-40, 53	Tutulla, Samoa
NQC	75, 86	San Diego, Calif.
NRRG	39.5, 82	Winter Park, Fla.
OCBA	41.50	Ramako, Soudan
OCCO	33	Conakry, French W. Africa
OCDA	35	Dakar, French W. Africa
OCDB	72	Djibouti
OCDJ	33	Issy-les-Moulins
OCNG	29, 32, 45, 48, 72	Nogent-le-Rotrou
OCRB	36	Rabat, Morocco
OCRF	74	Reggu, Morocco
OCRU	39	Rufisque, French W. Africa
OCTA	20	Mourillon, Toulon
OCTU	48, 50	Tunis
OHK2	39.5, 40.6, 70	Vienna
PCA	33.33	Amsterdam
PCG	17	Malibar, Java
PCH	20, 21.27, 28.80, 29.22	Scheveningen
PCJ	31.3 (10-noon, 3-7 p. m.)	Hilversum
PCL	46, 32, 18 (10 p. m.)	Kootwijk, Holland
PCMM	25, 27, 36	Kootwijk, Holland
PCPP	27	Kootwijk, Holland
PCRR	20, 25, 37	Kootwijk, Holland
PCTT	21, 29.5	Kootwijk, Holland
PCUO	34	The Hague
PHU	16.88 (4-8 a. m.)	Hulzen
PCK	16.3 (11 a. m.)	Kootwijk, Holland
PLE	15.74 (6-8 a. m.)	Bandoeng, Java
PLF	17 (6-8 a. m.)	Bandoeng, Java
PLG	18.8 (5-9 a. m.)	Bandoeng, Java
PLR	27.8 (8-11 a. m.)	Bandoeng, Java
PKD	32	Koepang
PKE	24	Ambolna
PKH	23	Soerabaja
PKP	21.5, 31.5	Medan
POF	13.5, 18	Nauen
POX	20	Nauen
POY	25	Nauen
POZ	47	Nauen
PTT	24 (6 a. m.)	St. Aassise, France
PTQ	30.5	Quartel-General, Brazil
PVC	15-20	Curacao
RA97	70 (2-7 a. m.)	Kharbarovsk
RAU	23, 34	Tashkent
RCRL	27, 28.5	Leningrad
RCT	64	Sebastopol
RDI	34.2	Petrozavodsk
RDW	83	Moscow
RFN	50 (midnight)	Moscow
RKV	21, 34	Moscow
RLT	23	Tomot
RRL	20-42	Nijni Novgorod
RTRL	22-42	Tiflis
SAA	44	Karlskrona
SAB	36.5	Goteberg

Call	Meters	Location
SAD	31, 51	Stockholm
SAJ	50	Carlesberg
SFR	75, 85	Paris
SMHA	41	Stockholm
SOK	37	Moskwa Sokoleniki
SPM	47	Helsingfors
SPR	22.18	Rio de Janeiro
SPW	29.3	Rio de Janeiro
SPX	40.5	Rio de Janeiro
SP1	17, 44, 47	Rio de Janeiro
SUT2	47	Abuzabal, Cairo
TFA	42.5, 49.5	Reykjavik, Iceland
TUK	20	Tomsk, Siberia
UOR2	49.40 (5 a. m.)	Vienna
VK2BL	32.5	Sydney
VK2FC	32.0	Sydney
VK2ME	28.50 (10-noon and 10 p. m.-1 a. m.)	Sydney
VK3LO	29.8, 32 or 36 (10-noon)	Melbourne
VK6AG	42	Perth
VK6WF	104	Perth
VK2XE	30.3	Sydney
W1XAO	40, 65, 60, 70	Belfast, Maine
W1XAB	63.79	Portland, Maine
WXAA	22.99 (3 p. m.)	Houlton, Maine
W2XAB	24	New York
W2XAC	(WGY)—50	Schenectady
W2XAD	19.56 (11-3 p. m.)	Schenectady
W2XAF	31.4, 32.7 (3 p. m.)	Schenectady
W2XAG	26.92	New York
W2XAI	43	Newark, N. J.
W2XAL	(WJZ)—30.91	New York
W2XAO	40, 56, 60, 70	Belfast, Maine
W2XAP	18.3, 36.6, 37.5	New York
W2XAW	3-20, 15	Schenectady
W2XBA	65.17 (3 p. m.)	Newark, N. J.
W2XE	49, 22.1 (3-9 p. m.)	Richmond Hills
W2XG	16.02 (9 a. m.)	Rocky Point, N. J.
W2XH	50	Schenectady
W2XI	30, 35, 38, 100	Schenectady
W28BH	54.2	Brooklyn, N. Y.
W2XK	65.5	Schenectady
W2XL	60	Bound Brook, N. J.
W2XO	21.96 (11 a. m.)	Schenectady
W2XQ	37.95, 75.9	Mountain Lake, N. J.
W2XK	18.3, 36.6, 37.5	San Juan, Porto Rico
W2XO	21.6	Schenectady
W6XN	23.35 (2-8 a. m. Wed., 5:30-9 p. m. Tues., Th., Fri.)	Oakland (KGO)
W8XJ	54	Columbus, Ohio
W8XK	(KDKA)—25.4	E. Pittsburgh
W8XAL	(WLW)—52.05	Cincinnati
W9XF	(WENR)—49.83, 25.42	Chicago
W9XU	61	Council Bluffs, Iowa
WCFL	37.24	Chicago
WIZ	42.35	New Brunswick
WJZ	18.17	Bound Brook, N. J.
WOWO	22.80 (3 p. m.)	Fort Wayne, Ind.
WRNY	30.91 (11 a. m.-9 p. m.)	Coytesville, N. J.
XC	44	San Lazaro, Mexico
XC51	44	Mexico City
XDA	34 (9 p. m.)	Mexico City
XFA	14.42	Mexico City
YR	40.2	Lyons
ZWT	53	Bremerhaven
7LO	31 (8-11 a. m.)	Nairobi
3LO	31.55	Melbourne, Australia
8XR	80	Constantine, Tunis
8BP	47 (6-8 a. m.)	Ruggles, France
7RL	84.25	Copenhagen
Radio Electra	60 (9 a. m.-2 p. m.)	Prague

Foreign Stations

(250 Watts and Up)

LATEST INFORMATION

Changes in Wave-Lengths and Call Letters frequently occur.

Location	Call	Meters	Power	Location	Call	Meters	Power
ARGENTINA				Lahti	—	1502	20000
Azul	E4	340	350	Tammerfors	—	400	250
Buenos Aires	LR1	380	500	Uleaborg	—	214.3	600
Buenos Aires	LR2	344.8	3000	Viborg	—	284.7	...
Buenos Aires	LR3	315.9	1000	FRANCE			
Buenos Aires	LR4	303	2000	Blarritz	—	228.4	1500
Buenos Aires	LR5	361.8	2000	Bordeaux	—	238	1500
Buenos Aires	LR6	330	1000	Bordeaux	—	300	1500
Buenos Aires	LR7	400	1250	Bordeaux	—	419	1500
Buenos Aires	LR8	261	1500	Grenoble	—	428.3	1000
Buenos Aires	LR9	291.2	2000	Lille	—	250	500
Buenos Aires	LS1	425	5000	Lyon	YN	480	1000
Buenos Aires	LS2	252	1000	Lyon	—	468	5000
Buenos Aires	LS3	236	1000	Lyon	YR	290	5000
Buenos Aires	LS4	270.4	1000	Marseilles	—	300	1000
Buenos Aires	LS5	280.5	1000	Mont de Marsan	—	400	1500
Buenos Aires	LS6	210	1000	Nimes	—	239	1000
Buenos Aires	LS7	222	1000	Paris	—	458	1000
Concordia	J2	225.8	400	Paris	F8GC	350	500
La Plata	LT2	438	1000	Paris	—	340.9	500
Mendoza	LT4	394.7	500	Paris	—	309.1	2000
Rafaela	G4	233.1	560	Paris	FL	1477	12000
Rosario	LT3	275	1500	Paris	CFR	1749	12000
Tucuman	K4	312.5	250	Rennes	—	253.3	1500
Venado Tuerto	G5	357	250	Strasbourg	—	268.8	500
AUSTRIA				Toulouse	MRD	256.2	1000
Graz	—	354.2	500	Toulouse	—	307	5000
Innsbruck	—	455.9	500	Toulouse	—	382.5	3000
Klagenfurt	—	455.9	500	GERMANY			
Linz	—	254.2	500	Aix-La-Chapelle	—	456.3	700
Vienna	ORV	519.9	15000	Augsburg	—	361.6	700
BELGIUM				Berlin	—	1649	20000
Brussels	BAV	508.5	1500	Berlin	—	475.4	4000
Brussels	—	511.9	1000	Berlin	AFT	2900	8000
BRAZIL				Berlin	—	418	800
Pernambuco	—	310	300	Berlin	—	283.4	700
Rio de Janeiro	SQAA	400	2000	Bremen	—	339	700
Rio de Janeiro	SQAB	310	500	Bremen	—	330.9	700
Rio de Janeiro	SQAJ	260	500	Breslau	—	320.1	4000
Sao Paulo	PRAE	360	1000	Dortmund	—	283	700
Sao Paulo	PRAO	225.4	1000	Cologne	—	263.4	4000
CANAL ZONE				Dresden	—	319	700
Balboa	—	352	1000	Cassel	—	250.5	700
CEYLON				Elberfeld	—	468.8	750
Colombo	—	800	1500	Frankfort-on-Main	—	421.3	4000
CHILE				Frelburg	—	576.8	750
Concepcion	CMAI	345	1500	Flensburg	—	219.1	1000
Santiago	CMAD	320	1000	Gleiwitz	—	328.8	6000
CZECHOSLOVAKIA				Hamburg	—	391.6	4000
Bratislava	OKR	300	500	Hanover	—	566	700
Brunn	OKB	425.5	2400	Kaiserlautern	—	273.2	700
Kosice	OKK	263	2000	Kassel	—	246	700
Prague	OKP	348.9	5000	Kiel	—	249.8	700
DANZIG				Koenigsberg	—	280.7	4000
Danzig	—	455.1	700	Langenberg	—	473	8000
DENMARK				Langenberg	—	462.2	15000
Copenhagen	—	281	500	Lelpzig	—	259	4000
Copenhagen	—	339.8	1000	Lelpzig	—	362.1	4000
Kalundborg	—	1158	750	Magdeburg	—	283.4	700
Ryvang	—	1150	1000	Muenster	—	234	1500
ESTHONIA				Muenster	—	250.1	700
Tallinn	—	408.5	1300	Munich	—	537.9	4000
FINLAND				Nurnberg	—	240.1	4000
Bjorneborg	—	304	700	Stettin	—	283.4	700
Helsingfors	—	500	1000	Stuttgart	—	360	4000
Helsingfors	—	375.3	2000	Stuttgart	—	374.1	4000
GUATEMALA				Zeesen	—	1651.9	20000
Guatemala	—	310	1000	GUATEMALA			

Foreign Stations—Continued

Location	Call	Meters	Power	Location	Call	Meters	Power
HAITI				Seville	EAJ5	400	500
Port au Prince.....	HHK	361.2	1000	Seville	EAJ17	434.8	3000
HOLLAND				San Sebastian	EAJ8	434.8	3000
Hilversum	—	1076.8	5000	Salamanca	EAJ22	275.2	500
Hulzen	—	1846	6500	Zaragoza	—	566	1500
Huizen	—	336	6500	SWEDEN			
Scheveningen Haven.....	—	1847.3	2500	Boden	—	1200	2000
HUNGARY				Boras	SMYB	230.8	250
Budapest	MTI	550	2000	Falun	SMZK	322.3	500
Budapest	—	547.6	2000	Goteborg	SBB	346.4	10000
ICELAND				Horby	—	260.9	10000
Revkjavik	—	333.3	500	Jonkopkings	SMZD	201.3	250
INDIA				Karlstadt	SMXG	220.6	250
Bombay	2FV	387	100	Kiruna	SMTG	238.1	400
Bombay	7BY	357.1	3000	Kristinehamn	SMTJ	202.7	250
Calcutta	7CA	370.4	3000	Malmberget	SMXO	400	250
IRISH FREE STATE				Malmo	SASC	231	600
Cork	6CK	222.4	1000	Motala	SBG	1347	20000
Dublin	2RN	410.8	1000	Norrkoping	SMVV	275.2	250
ITALY				Ostersund	SAF	770	1000
Milan	IMI	503.6	7000	Saffle	SMTS	252.1	400
Genoa	IGE	386.5	1200	Stockholm	SASA	437.7	1500
Naples	INA	333.6	1000	Sundsvall	SASD	545.5	600
Rome	IRO	442.3	3000	Trollhattan	SMXQ	270.8	400
Turin	—	277.6	7000	Uddevalia	SMZF	294.1	500
JUGO-SLAVIA				Varberg	SMSO	297	300
Ljubljana	—	582.1	2500	SWITZERLAND			
Laibach	—	570	2500	Vasle	HB3	1010	300
Belgrade	—	458.5	2000	Berne	—	406.9	1300
LATVIA				Zurich	—	459	1500
Riga	KCX	529.4	2000	TURKEY			
LITHUANIA				Constantinople	—	1200	6000
Kovno	—	2000	7000	UNION OF SOUTH AFRICA			
LUXEMBURG				Cape Town	—	372	1200
Luxemburg	LOAA	234	250	Durban	—	398	1200
MOROCCO				Johannesburg	JB	433.5	900
Rabat	—	412.1	10000	UNITED KINGDOM			
NORWAY				Aberdeen	2BD	311.2	1000
Bergen	—	366.1	1000	Belfast	2BE	302.7	1000
Oslo	—	496.3	1000	Birmingham	5RT	326.1	1000
Porsgrund	—	405	1000	Bournemouth	5BM	288.5	1000
Porsgrund	—	459.5	700	Cardiff	5WA	323.2	1000
Stavanger	—	277.6	1500	Daventry	5GB	482.3	25000
Trondhjem	—	244.8	1000	Daventry	5XK	1566.5	25000
PERU				Edinburgh	2EH	288.5	330
Lima	OAX	380	1500	Glasgow	5SC	401.1	1000
POLAND				London	3LO	358	2000
Katowice	—	416.1	10000	Manchester	2ZY	378.3	1000
Krakow	—	314.3	1300	Newcastle	5NO	243.9	1000
Posman	—	336	1500	URUGUAY			
Rjukan	—	241.8	1000	Montevideo	CWOA	428.4	1000
Warsaw	—	212	8000	Montevideo	CWOR	350	500
Warsaw	—	1397.3	8000	Montevideo	CWOS	380	500
PORTUGAL				Montevideo	CWOW	500	500
Lisbon	POEEA	310	500	U. S. S. R. (RUSSIA)			
SALVADOR				Dneipropetrovsk	RA30	525	1000
Salvador	AQM	482	500	Kharkov	RA43	477	4000
SPAIN				Kharkov	—	1697.8	15000
Almeria	—	320	1000	Koursk	RA34	575	1000
Barcelona	EAJ1	350.5	3500	Kiev	—	775	1200
Barcelona	EAJ13	277.6	3000	Krasnodar	RA38	513	1000
Bilbao	EAJ9	434.8	500	Nijninogorod	—	841	1800
Bilbao	EAJ11	294.1	500	Leningrad	—	1002.3	20000
Cadiz	EAJ3	297	500	Minsk	RA18	940	4000
Cartagena	EAJ16	277.8	500	Moscow	RA2	450	4000
Madrid	EAJ2	420	3000	Novosibirsk	RA	1165	4000
Madrid	EAJ4	297	1000	Moscow	RA4	603	300
Madrid	EAJ6	500	1000	Moscow	RA1	1446.4	40000
Madrid	EAJ7	375	1500	Rostov-Don	—	1073	4000
Oviedo	EAJ19	272.7	1000	Stavropol	RA20	650	1200
				Tiflis	—	870	4000
				Vladivostok	RA17	480	1500
				VENEZUELA			
				Caracas	AYRE	375	1000

Mexican Stations

Call	Location	Meters	Power	Log	Remarks
XEB	Mexico City	405	1000		
XEN	Mexico City	410	1000		
XEO	Mexico City	325	500		
XEX	Mexico City	355	500		
XFC	Mexico City	366	500		
XFI	Mexico City	425	1000		
XFX	Mexico City	342	1000		

Directory of Southern California Stations

Call	Kcy.	Power	Location	Owner	Telephone
KECA	1430	1000	Los Angeles	Earle C. Anthony, Inc.	Trinity 3202
KEJK	710	500	Beverly Hills	R. S. Macmillan	CRestview 3101
KELW	780	500	Burbank	Earl L. White	Burbank 1601
KFI	640	5000	Los Angeles	Earle C. Anthony, Inc.	Westmore 0331
KFOX	1250	1000	Long Beach	Nichols & Warinner, Inc.	Phone 672-81
KFQZ	860	250	Hollywood	Taft Broadcasting Corp.	Westmore 3001
KFSD	600	1000	San Diego	Airfan Radio Corp.	Franklin 6353
KFSG	1120	500	Los Angeles	Echo Park Evangelical Assn.	EXposition 1141
KFVD	1000	250	Culver City	Auburn-Fuller Co.	EMpre 1171
KFWB	950	1000	Hollywood	Warner Bros. Pictures, Inc.	Hollywood 0315
KFXM	1210	100	San Bernardino	J. C. and E. W. Lee	2156
KGB	1330	250	San Diego	Pickwick Broadcasting Corp.	Franklin 6151
KGEF	1300	1000	Los Angeles	Trinity Methodist Church	Westmore 8887
KGER	1360	100	Long Beach	C. Merwin Dobyns	Phone 632-75
KGFJ	1200	100	Los Angeles	Ben S. McGlashan	Westmore 4620
KHJ	900	1000	Los Angeles	Don Lee, Inc.	VAndike 7111
KMIC	1120	500	Inglewood	Dalton's, Inc.	THornwall 1121
KMTR	570	500	Hollywood	KMTR Radio Corp.	Hollywood 3026
KNX	1050	5000	Hollywood	Western Broadcast Co.	HEmpstead 4101
KPPC	1210	50	Pasadena	Pasadena Presbyterian Church	Terrace 1163
KPSN	1360	1000	Pasadena	Pasadena Star-News Pub. Co.	Wakefield 3111
KTBI	1300	500	Los Angeles	Bible Institute of L. A.	METropolitan 6701
KTM	780	1000	Santa Monica	Pickwick Broadcasting Corp.	EXposition 1314
KXO	1200	100	El Centro	E. R. Irey and F. M. Bowles	Phone 1100

Radio Doings

The Guide Book for the Radio Fan

CONTAINS

Latest Radio News—Pictures of Artists—Stories of the Studios—
 Latest Developments in Radio—Your Radio Problems and Questions Answered—Latest Station Changes—last but not least—the detail programs of all the large Pacific Coast Stations.

World Time Chart

DX fans are often puzzled by the time difference throughout the world, and have difficulty in computing the time at distant points with respect to the local time. Particularly is this true in the short-wave field, where foreign DX reception is not only possible, but a regular occurrence. For instance, when the Pacific network gave us the London rebroadcast recently, no doubt many listeners were puzzled to know the

should hear Manila on short waves at 6 a. m., you will know that it is 10 p. m. there. In order to determine whether it is the same day, or the preceding or following day, follow this rule: Crossing from dark to light area at midnight, indicates the following day. Crossing from light to dark area, indicates preceding day. As an example, 4 a. m. here is 9 p. m. in Tokio of the preceding day.

WORLD TIME CHART

Sweden Green- land Italy	Petrograd Cen- time Capoten	Bagdad Persia	India	Borneo Java Dutch E. I.	P. I. China Western Australia	Yokio Central Australia	Sidney Mel- bourne Eastern Australia	Auckland New Zealand	Samoa	Hawaii Islands	Pacific	Mountain	Central	New York- Wash- ington E. S. T.	Hafsa Borneo — N. Y. Daylight Saving	Rio de Janeiro Brazil	London Paris Madrid	G. M. T. or G. C. Y.
1 00	2 00	3 00	5 00	6 00	8 00	9 00	10 00	11 30	Neen	1 30	4 00	5 00	6 00	7 00	8 00	9 00	Midnight	0000
2 00	3 00	4 00	6 00	7 00	9 00	10 00	11 00	12 30	1 00	2 30	5 00	6 00	7 00	8 00	9 00	10 00	1 00	0100
3 00	4 00	5 00	7 00	8 00	10 00	11 00	Neen	1 30	2 00	3 30	6 00	7 00	8 00	9 00	10 00	11 00	2 00	0200
4 00	5 00	6 00	8 00	9 00	11 00	Neen	1 00	2 30	3 00	4 30	7 00	8 00	9 00	10 00	11 00	Midnight	3 00	0300
5 00	6 00	7 00	9 00	10 00	Neen	1 00	2 00	3 30	4 00	5 30	8 00	9 00	10 00	11 00	Midnight	1 00	4 00	0400
6 00	7 00	8 00	10 00	11 00	1 00	2 00	3 00	4 30	5 00	6 30	9 00	10 00	11 00	Midnight	1 00	2 00	5 00	0500
7 00	8 00	9 00	11 00	Neen	2 00	3 00	4 00	5 30	6 00	7 30	10 00	11 00	Midnight	1 00	2 00	3 00	6 00	0600
8 00	9 00	10 00	Neen	1 00	3 00	4 00	5 00	6 30	7 00	8 30	11 00	Midnight	1 00	2 00	3 00	4 00	7 00	0700
9 00	10 00	11 00	1 00	2 00	4 00	5 00	6 00	7 30	8 00	9 30	12 00	1 00	2 00	3 00	4 00	5 00	8 00	0800
10 00	11 00	Neen	2 00	3 00	5 00	6 00	7 00	8 30	9 00	10 30	1 00	2 00	3 00	4 00	5 00	6 00	9 00	0900
11 00	Neen	1 00	3 00	4 00	6 00	7 00	8 00	9 30	10 00	11 30	2 00	3 00	4 00	5 00	6 00	7 00	10 00	1000
Neen	1 00	2 00	4 00	5 00	7 00	8 00	9 00	10 30	11 00	12 30	3 00	4 00	5 00	6 00	7 00	8 00	11 00	1100
1 00	2 00	3 00	5 00	6 00	8 00	9 00	10 00	11 30	Midnight	1 30	4 00	5 00	6 00	7 00	8 00	9 00	Neen	1200
2 00	3 00	4 00	6 00	7 00	9 00	10 00	11 00	12 30	1 00	2 30	5 00	6 00	7 00	8 00	9 00	10 00	1 00	1300
3 00	4 00	5 00	7 00	8 00	10 00	11 00	Midnight	1 30	2 00	3 30	6 00	7 00	8 00	9 00	10 00	11 00	2 00	1400
4 00	5 00	6 00	8 00	9 00	11 00	Midnight	1 00	2 30	3 00	4 30	7 00	8 00	9 00	10 00	11 00	Neen	3 00	1500
5 00	6 00	7 00	9 00	10 00	Midnight	1 00	2 00	3 30	4 00	5 30	8 00	9 00	10 00	11 00	Neen	1 00	4 00	1600
6 00	7 00	8 00	10 00	11 00	1 00	2 00	3 00	4 30	5 00	6 30	9 00	10 00	11 00	Neen	1 00	2 00	5 00	1700
7 00	8 00	9 00	11 00	Midnight	2 00	3 00	4 00	5 30	6 00	7 30	10 00	11 00	Neen	1 00	2 00	3 00	6 00	1800
8 00	9 00	10 00	Midnight	1 00	3 00	4 00	5 00	6 30	7 00	8 30	11 00	Neen	1 00	2 00	3 00	4 00	7 00	1900
9 00	10 00	11 00	1 00	2 00	4 00	5 00	6 00	7 30	8 00	9 30	Neen	1 00	2 00	3 00	4 00	5 00	8 00	2000
10 00	11 00	Midnight	2 00	3 00	5 00	6 00	7 00	8 30	9 00	10 30	1 00	2 00	3 00	4 00	5 00	6 00	9 00	2100
11 00	Midnight	1 00	3 00	4 00	6 00	7 00	8 00	9 30	10 00	11 30	2 00	3 00	4 00	5 00	6 00	7 00	10 00	2200
Midnight	1 00	2 00	4 00	5 00	7 00	8 00	9 00	10 30	11 00	12 30	3 00	4 00	5 00	6 00	7 00	8 00	11 00	2300

hour in London corresponding to 2 a. m. Pacific time. The accompanying World Time Chart, reprinted from the Hammarlund Short Wave Manual,* answers all questions concerning world time.

The local time, under the "Pacific" heading, corresponds to the time indicated on the same horizontal line in any other part of the world. It is seen that 2 a. m. here is 10 a. m. in London, 9:30 p. m. in New Zealand, 8 p. m. in Sydney, 7 p. m. in Japan, etc. If you

The column on the extreme right gives the Greenwich Mean Time, which is considered the standard throughout the world, and from which all other times are computed. Anything which is international in nature is usually dealt with in Greenwich Time. For example, W2XAD, at Schenectady, may announce that a certain program will begin at 2300 GMT, which the chart tells us is 6 p. m., Eastern standard time, or 3 p. m., on the Pacific.

*Courtesy of Hammarlund Mfg. Co., New York.

Stations Associated With National Broadcasting Co. System

Call	Location	Freq.	Pwr.	Chnl.	Call	Location	Freq.	Pwr.	Chnl.
KDKA	Pittsburgh	980	50000	44	WFJC	Akron	1450	500	91
KECA	Los Angeles	1430	1000	89	WGN	Chicago	720	25000	18
KFAB	Lincoln	770	5000	23	WGR	Buffalo	550	1000	1
KFI	Los Angeles	640	5000	10	WGY	Schenectady	790	50000	25
KFKX	Chicago	1020	5000	48	WHAM	Rochester	1150	5000	61
KGO	San Francisco	790	7500	25	WHAS	Louisville	820	10000	28
KGW	Portland	620	1000	8	WHO	Des Moines	1000	5000	46
KHQ	Spokane	590	2000	5	WIBO	Chicago	560	1500	2
KOA	Denver	830	12500	29	WIOD	Miami Beach	1300	1000	76
KOMO	Seattle	970	15000	43	WJAR	Providence	890	400	35
KPO	San Francisco	680	5000	14	WJAX	Jacksonville	1260	1000	72
KPRC	Houston	920	2500	38	WJDX	Jackson	1270	500	73
KSD	St. Louis	550	500	1	WJR	Detroit	750	5000	21
KSL	Salt Lake City	1130	5000	59	WJZ	New York	760	30000	22
KSTP	St. Paul	1460	10000	92	WKY	Oklahoma	900	1000	36
KTHS	Hot Springs	1040	10000	50	WLIT	Philadelphia	560	500	2
KVOO	Tulsa	1140	5000	60	WLS	Chicago	870	5000	33
KWK	St. Louis	1350	1000	81	WLIB	Chicago	720	25000	18
KYW	Chicago	1020	5000	48	WLW	Cincinnati	700	5000	17
WAPI	Birmingham	1140	5000	60	WMC	Memphis	780	1000	24
WBAL	Baltimore	1060	10000	52	WOAI	San Antonio	1190	50000	95
WBAP	Fort Worth	800	50000	26	WOC	Davenport	1000	5000	46
WBT	Charlotte	1080	5000	64	WOW	Ovaha	590	1000	5
WBZ	Springfield	990	15000	45	WPTF	Raleigh	680	1000	14
WBZA	Boston	990	500	45	WRC	Washington	950	500	41
WCAE	Pittsburgh	1220	500	68	WREN	Kansas City	1220	1000	68
WCFE	Chicago	970	1500	43	WRVA	Richmond	1110	5000	57
WCKY	Covington	1480	5000	94	WSAL	Cincinnati	1330	500	79
WCSH	Portland	940	500	40	WSB	Atlanta	740	5000	20
WDAF	Kansas City	610	1000	7	WSM	Nashville	650	5000	11
WEAF	New York	660	50000	12	WSMB	New Orleans	1320	500	78
WEAR	Cleveland	1070	1000	53	WTAG	Worcester	580	250	4
WECB	Duluth	1280	1000	74	WTAM	Cleveland	1070	50000	53
WENR	Chicago	870	50000	33	WTIC	Hartford	1060	25000	52
WEEI	Boston	590	1000	5	WTMJ	Milwaukee	620	1000	8
WFAA	Dallas	800	50000	26	WWJ	Detroit	920	1000	38
WFI	Philadelphia	560	500	2					

Stations Associated With Columbia Broadcasting Co. System

Call	Location	Freq.	Pwr.	Chnl.	Call	Location	Freq.	Pwr.	Chnl.
CFRB	Toronto	960	4000	42	WDDO	Chattanooga	1280	1000	74
CKAC	Montreal	730	5000	19	WDSU	New Orleans	1270	1000	73
CKGW	Toronto	960	5000	42	WEAN	Providence	780	250	24
KDYL	Salt Lake City	1290	1000	75	WFAN	Philadelphia	610	500	7
KFJF	Oklahoma City	1470	5000	93	WFBL	Syracuse	900	750	36
KFH	Wichita	1300	1000	76	WFBM	Indianapolis	1320	1000	78
KFPY	Spokane	1340	500	80	WGHP	Detroit	1240	750	70
KFRG	San Francisco	610	1000	7	WHEC	Rochester	1440	500	90
KHJ	Los Angeles	900	1000	36	WHK	Cleveland	1390	1000	85
KLRA	Little Rock	1390	1000	85	WHP	Harrisburg	1430	500	99
KLZ	Denver	560	1000	2	WIBW	Topeka	1300	1000	76
KMBC	Kansas City	950	1000	41	WISN	Milwaukee	1120	250	58
KMOX	St. Louis	1070	5000	55	WJAS	Pittsburg	1290	1000	75
KOIL	Omaha	1260	1000	72	WKBN	Youngstown	570	500	3
KOIN	Portland	940	1000	40	WKBW	Buffalo	1470	5000	93
KRLD	Dallas	1040	10000	50	WKRC	Cincinnati	550	500	1
KSCJ	Sioux City	1330	1000	79	WLAC	Nashville	1490	5000	95
KTSA	San Antonio	1290	1000	75	WLBW	Oil City	1260	500	72
KVI	Seattle	620	1000	38	WMAL	Washington	630	250	9
WABC	New York City	860	5000	32	WMAK	Buffalo	900	750	36
WADC	Akron	1320	1000	78	WMAQ	Chicago	670	5000	13
WAIU	Columbus	640	500	10	WNAK	Boston	1230	1000	69
WBBM	Chicago	770	25000	23	WOWO	Fort Wayne	1160	10000	62
WBRC	Birmingham	930	500	39	WREC	Memphis	600	500	6
WCAH	Columbus	1430	500	89	WRHM	Minneapolis	1250	1000	71
WCAO	Baltimore	600	250	6	WSPD	Toledo	1340	500	80
WCCO	Minneapolis	810	10000	27	WTAR	Norfolk	780	500	24
WCAU	Philadelphia	1170	10000	63	WWNC	Asheville	570	1000	3
WDBJ	Roanoke	930	250	39					

“DX” Reception

(Continued from Page 34)

a very large aerial should be used. But here again we find that another factor is affected by antenna size, namely, selectivity. Enlarging the antenna broadens the tuning and destroys the selectivity of the set. We must compromise by putting up as much wire as we can without making the local stations spread too much on the dial. Having a good “pick-up” on distant stations will avail us nothing if the nearby local station blankets them.

The size (length) of antenna will be determined by the proximity of the nearest station or stations and the inherent characteristics of the set. If the antenna is too small, there will not be enough energy picked up from the distant stations to give an audible signal. If the antenna is too large, the nearest stations will spread too much

on the dial, thereby blanketing the channels where the DX stations are operating. The dealer’s service man who makes the installation should know the set and the location sufficiently well to determine the proper antenna length without experimenting. The third effect of the antenna upon reception is its “pick-up” ability with respect to “noise” or electrical interference.

Electrical Interference

Often the noise level is so high that the majority of distant stations are submerged beneath it and cannot be received. In many cases this condition can be remedied by altering the antenna. Assuming a location in which there is considerable electrical interference being picked up by the antenna,—in fact, so much that it drowns out most of the distant stations, it is logi-

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cal that the portion of the antenna which is near and parallel to the house wiring, conduit, power lines, metal lath, and other bodies which are carrying or radiating the interference, is picking up more noise than radio signal, while usually the high and outdoor portion of the antenna is picking up more radio signal than noise.

It becomes obvious that if we were to shield the lower portion of the antenna and prevent it from picking up either noise or signal, leaving only the upper portion exposed, that the result would be more signal and less noise. This has proven satisfactory in many cases, though it has its disadvantages also. It is accomplished by using lead-covered wire from the set to a point well out of and above the house, where the aerial wire proper begins. This exposed wire should then be at right angles to all power circuits, telephone lines, trolley lines and feeders, etc. In fact, for the ideal condition it should be vertical, and not horizontal. The lead sheath on the lead-in is then grounded to the water pipe. The ground wire to a good buried ground connection may likewise be shielded, the lead sheath being grounded to a water pipe and not to the radio ground.

The disadvantage of this system is that the shielded lead-in has considerable capacity between aerial and ground and some of the received energy thus takes this path rather than through the radio receiver. To compensate for this loss, a larger antenna must be used than is normally required. Electrical interference is usually directional, and hence improvement may often be made by changing the direction of an

aerial where the horizontal type is used. When electrical interference is so bad that it interferes with local reception, it should be reported to your dealer and to the nearest Radio Trades Association.

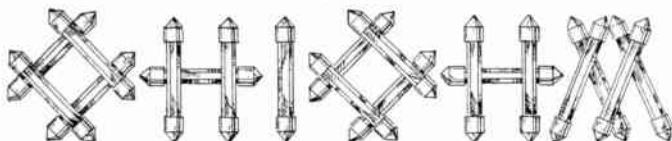
Tuning and Patience

There is a certain knack in DX tuning, as in all things. Some DX stations may be stumbled on accidentally, due to their strong volume, but in most cases one must patiently search for them. Due to fading, and to the fact that conditions vary greatly from day to day, a fan may try for a certain station night after night without success, and then some night the station will come in strong and clear, only to again fade into oblivion. It is this uncertainty that makes DX reception so fascinating. William MacDonald of Chula Vista, the DX champion of the world, has many stations in his verified files which he has heard but once in all of his years of patient tuning. He is content to listen for hours to a faint carrier in the same channel night after night for a month if necessary until he finally hears the call. Most of us have neither the patience nor the time to do this, but it exemplifies the spirit which piles up fat DX logs.

There are little tricks which one learns from experience. For example, many Eastern stations operating in the same channels with locals during the evening can be received in the early morning hours before the locals start broadcasting, due to the difference in time. When the locals shut down for an SOS at sea, the DX fans have a wonderful time, logging stations they never heard before. It's a great game!

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INDEX

	Page
Easy Tuning Chart - - - - -	4-5
The 96 Channels of America Stations - - - - -	7-39
"DX" Reception—by K. G. Ormiston - - - - -	8
Standard Straight Line Distance Table - - - - -	40-41
American Stations Alphabetically - - - - -	45-64
Convenient Log of Western Stations - - - - -	65
Geographical List of American Stations - - - - -	66-67
Transpacific Broadcasters - - - - -	68
Alaska, Cuba, Hawaii, Porto Rico - - - - -	69
Canadian Stations—Complete - - - - -	70-71
Short Wave Stations of the World - - - - -	72-73
Stations in Europe, Asia, Africa, South America - - - - -	74-75
Mexican Stations - - - - -	76
Directory of Southern California Stations - - - - -	76
World Time Chart - - - - -	77
Stations Associated with NBC - - - - -	78
Stations of Columbia Broadcasting System - - - - -	78

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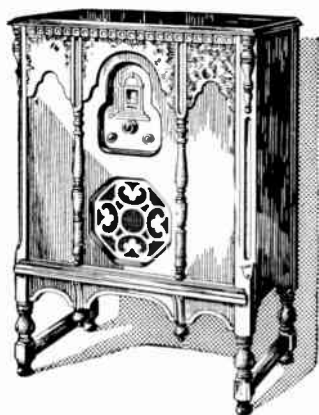
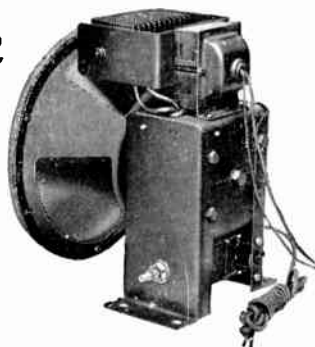
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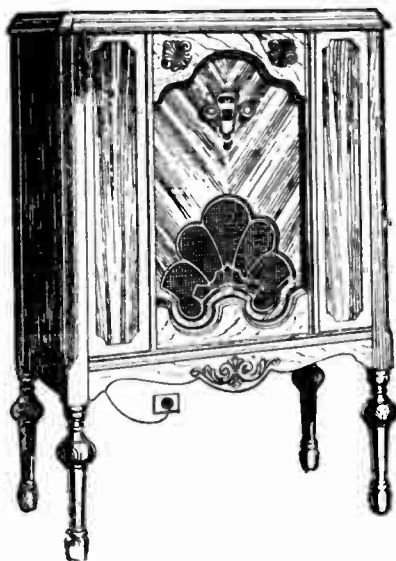
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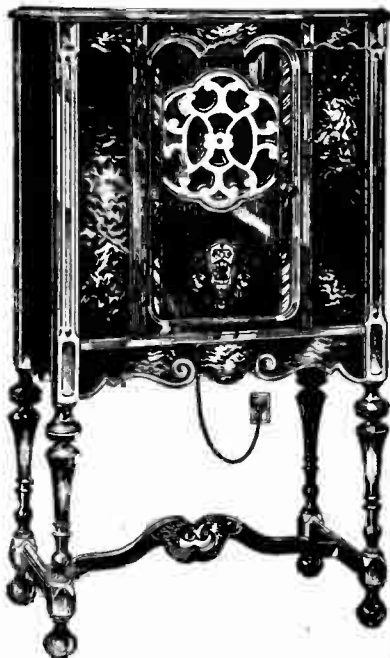


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