

# RADIO

DUSTON'S

LOG and CALL Book  
*With* PROGRAMME DIRECTORY



*With Helpful Suggestions on Construction  
... and Operation of Radio Receivers ...*

# DUSTON'S RADIO LOG AND CALL BOOK *with* PROGRAM DIRECTORY

*by* MERLE DUSTON

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## FOREWORD

IT HAS been the intention to make this "Radio Log and Call" book as easy to use, and as comprehensive as possible. For that reason, all stations having a power of under 50 watts, have been omitted. It is rare indeed when a broadcast listener, tunes in one of these smaller stations.

In giving the program of the various stations, most of the Class "B" stations, have been included. These programs have been fairly well standardized, but of course, some of them may change their hours of broadcasting from time to time, so that one hundred per cent accuracy cannot be had.

If any errors are noted, the author would be pleased to receive corrections, and same will be included in future editions.

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## BROADCASTING STATIONS

CALL	STATION OWNER	LOCATION	P'wr W'ts	Wave L'ngth	Freq. Kilo.	Dis- tance	Dial 1	Dial 2	Dial 3
AT9	U. S. Government	Ft. Bragg, N. C.	750	435	685				
KDKA	Westinghouse Electric & Manufacturing Co.	E. Pittsburg ,Pa.	1000	309.1	970				
KDYL	Newhouse Hotel	Salt Lake City, Utah	50	246	1220				
KDZB	Frank E. Seifert	Bakersfield, Calif.	100	209.7	1430				
KFAB	Nebraska Buick Auto Co.	Lincoln, Nebr.	1000	340.7	.880				
KFAD	McArthur Bros. Merc. Co.	Phoenix, Ariz.	100	273	1100				
KFAF	A. E. Fowler	San Jose, Calif.	50	217.3	1380				
KFAJ	University of Colorado	Boulder, Colo.	100	261	1150				
KFAU	Boise High School	Boise, Idaho	750	282.8	1060				
KFBB	F. A. Buttrey & Co.	Havre, Mont.	50	275	1090				
KFBC	W. K. Azvill	San Diego, Calif.	70	224	1340				
KFBK	Kimball Upson Co.	Sacramento, Calif.	100	248	1210				
KFBL	Leese Bros.	Everett, Wash.	100	224	1340				
KFBU	The Cathedral	Laramie, Wyo.	500	270	1110				
KFCB	Nielson Radio Supply Co.	Phoenix, Ariz.	100	238	1260				
KFDD	St. Michael's Cathedral	Boise, Idaho	50	275	1080				
KFDJ	Oregon Agricultural College	Corvallis, Oregon	500	282.8	1060				
KFDM	Magnolia Petroleum Co.	Beaumont, Texas	500	315.6	952				
KFDX	First Baptist Church	Shreveport, La.	100	250	1200				
KFDY	S. Dak. College of Agric.	Brookings, S. Dak.	100	273	1100				
KFEC	Meyer & Frank Co.	Portland, Oregon	50	248	1210				
KFEL	W. L. Winner Radio Shop	Denver, Colo.	50	254	1180				
KFEQ	Scroggin & Co. Bank	Oak, Nebraska	500	268	1120				
KFFP	First Baptist Church	Moberly, Mo.	50	242	1240				
KFHA	Western State College of Colorado	Gunnison, Colo.	50	252	1190				
KFI	Earl C. Anthony, Inc.	Los Angeles, Calif.	3000	467	640				
KFIF	Benson Polytechnic Inst.	Portland, Oregon	100	248	1210				
KFIQ	First Methodist Church	Yakima, Wash.	100	256.3	1170				

# BROADCASTING STATIONS

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CALL	STATION OWNER	LOCATION	P'wr W'ts	Wave L'ngth	Freq. Kilo.	Dis- tance	Dial 1	Dial 2	Dial 3
KFIZ	Daily Commonwealth & Wisconsin Radio Sales	Fond du Lac, Wis.	100	273	1100				
KFJF	Nat'l. Radio Mfg. Co.	Oklahoma City, Ok.	500	261	1150				
KFJM	University of N. Dak.	Grand Forks, N. D.	100	278	1080				
KFJR	A. C. Dixon & Son	Portland, Oregon	50	263	1140				
KFJY	Tunwall Radio Co.	Fort Dodge, Iowa	50	246	1220				
KFJZ	Southwestern Baptist Theol. Seminary	Fort Worth, Texas							
KFKA	Colo. State Teacher's Col.	Greeley, Colo.	50	273	1100				
KFKU	University of Kansas	Lawrence, Kans.	500	275	1090				
KFKX	Westinghouse El.&Mfg. Co.	Hastings, Nebr.	5000	288.3	1040				
KFLR	University of New Mexico	Albuquerque, N. M.	100	254	1180				
KFLV	Swedish Eva. Mission Ch.	Rockford, Ill.	200	229	1310				
KFLZ	Atlantic Automobile Co.	Anita, Iowa	100	273	1250				
KFMR	Morningside College	Sioux City, Iowa	100	261	1150				
KFMW	M. G. Sateren	Houghton, Mich.	50	263	1140				
KFMX	Carleton College	Northfield, Minn.	500	336.9	890				
KFN	Hotel Lassen	Wichita, Kans.	500	268	1120				
KFNF	Henry Field Seed Co.	Shenandoah, Iowa	1000	263	1140				
KFOA	Rhoades Department Store	Seattle, Wash.	1000	454.3	660				
KFOB	Albert Sherman	Burlingame, Calif.	50	226	1330				
KFON	Echophone Radio Shop	Long Beach, Calif.	500	233	1290				
KFOO	Latter Day Saints Univ.	Salt Lake City, Utah	250	236	1270				
KFOR	David City Tire & Elec. Co.	David City, Nebr.	100	226	1330				
KFOT	College Hill Radio Club	Wichita, Kans.	50	231	1300				
KFOX	Technical High School	Omaha, Nebr.	100	248	1210				
KFOY	Beacon Radio Service	St. Paul, Minn.	50	252	1190				
KFPR	Los Angeles Co. Forest Dep.	Los Angeles, Calif.	500	231	1300				
KFPY	Symons Investment Co.	Spokane, Wash.	100	266	1130				
KFQA	The Principia	St. Louis, Mo.	50	261	1150				

## BROADCASTING STATIONS

CALL	STATION OWNER	LOCATION	P'wr W'ts	Wave L'ngth	Freq. Kilo.	Dis- tance	Dial 1	Dial 2	Dial 3
KFQB	Searchlight Pub. Co.	Fort Worth, Texas	200	263	1140				
KFQD	Chovin Supply Co.	Anchorage, Alaska	100	227.1	1320				
KFQU	W. E. Riker	Alma, Calif.	100	217.3	1380				
KFQW	C. F. Knierim	North Bend, Wash.	50	215.7	1390				
KFQZ	Taft Prod. Co.	Hollywood, Calif.	50	226	1330				
KFRB	Hall Bros.	Beeville, Texas	250	248	1210				
KFRC	City of Paris DryGoods Co.	San Francisco, Calif.	50	268	1120				
KFRU	Stephens College	Columbia, Mo.	500	499.7	600				
KFRW	United Churches of Olympia	Olympia, Wash.	50	218	1370				
KFSG	Echo Park Evangelistic Association	Los Angeles, Calif.	500	275	1090				
KFUL	Thos. Goggan & Bros.	Galveston, Texas	50	258	1160				
KFUO	Concordia Seminary	St. Louis, Mo.	500	545.1	550				
KFUP	Fitzsimmons Gen'l. Hosp.	Denver, Colo.	50	234	1280				
KFUR	Peery Bldg. Co.	Ogden, Utah	100	224	1340				
KFUS	Louis L. Sherman	Oakland, Calif.	50	256	1170				
KFUT	University of Utah	Salt Lake City, Utah	100	261	1150				
KFUU	Colburn Radio Lab.	Oakland, Calif.	50	220	1360				
KFVD	McWhinnie Electric Co.	San Pedro, Calif.	50	205.4	1460				
KFVE	Film Corp. of America	St. Louis, Mo.	500	240	1250				
KFVN	Carl E. Bagley	Fairmont, Minn.	50	227	1320				
KFVS	Hirsch Battery Station	Cape Girardeau, Mo.	50	224	1340				
KFVW	Airfan Radio Corp.	San Diego, Calif.	500	246	1200				
KFWA	Browning Bros. Co.	Ogden, Utah	500	261	1150				
KFWB	Warner Bros. Pictures, Inc.	Hollywood, Calif.	500	252	1190				
KFWC	L. E. Wall	Upland, Calif.	50	211.1	...				
KFWF	St. Louis Truth Center	St. Louis, Mo.	250	214.2	1400				
KFWH	F. Wellington Morse, Jr.	Chico, Calif.	100	254	1180				
KFWI	Radio Entertainments, Inc.	S. San Francisco, Cal.	500	226	1330				

# BROADCASTING STATIONS

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CALL	STATION OWNER	LOCATION	P'wr W'ts	Wave L'ngth	Freq. Kilo.	Dis- tance	Dial 1	Dial 2	Dial 3
KFWM	Oakland Educ. Society	Oakland, Calif.	500	206.8	1450				
KFWO	Lawrence Mott	Avalon, Calif.	250	211.1	1420				
KFWU	Louisiana College	Pineville, La.	100	238	1260				
KFWV	Wilbur Jerman	Portland, Oregon	50	212.6	1410				
KFXB	B. O. Heller	Big Bear Lake, Calif.	500	202.6	1480				
KFXD	Service Radio Company	Logan, Utah	10	205.4	1460				
KFXF	Pikes Peak Broadcast Co.	Colo. Springs, Colo.	500	250	1200				
KFXH	Bledsoe Radio Co.	El Paso, Texas	50	242	1240				
KFXY	Mary Costigan	Flagstaff, Ariz.	50	205.4	1460				
KGO	General Electric Co.	Oakland, Calif.	3000	361.2	830				
KGTT	Glad Tidings Tabernacle	San Francisco, Calif.	50	234	1280				
KGU	Marion A. Mulrony	Honolulu, Hawaii	500	270	1110				
KGW	Portland Morn. Oregonian	Portland, Oregon	500	491.5	610				
KHJ	Times Mirror Co.	Los Angeles, Calif.	500	405.2	1220				
KHQ	Louis Wasmer	Spokane, Wash.	500	273	1100				
KJR	Northwest Radio Serv. Co.	Seattle, Wash.	1000	384.4	780				
KLDS	Re-organized Church of Jesus Christ of Latter Day Saints	Independence, Mo.	1000	440.9	680				
KLS	Warner Bros. Radio Sup. Co.	Oakland, Calif.	250	252	1200				
KLX	Tribune Publishing Co.	Oakland, Calif.	500	508.2	590				
KLZ	Reynolds Radio Co.	Denver, Colo.	250	266	1130				
KMA	May Seed & Nursery Co.	Shenandoah, Iowa	500	252	1190				
KMJ	Fresno Bee	Fresno, Calif.	50	234	1280				
KMMJ	M. M. Johnson Co.	Clay Center, Nebr.	1000	229	1310				
KMO	Love Electric Co.	Tacoma, Wash.	100	250	1200	X			
KMOX	Voice of St. Louis	St. Louis, Mo.	1500	280.2	1070				
KMTR	Olive S. Garretson	Los Angeles, Calif.	500	238	1260				
KNRC	Kierulff & Ravencroft	Los Angeles, Calif.	250	208.2	1430				
KNT	N. Hemrich	Kurak Bay, Alaska	100	263	1140				

## BROADCASTING STATIONS

CALL	STATION OWNER	LOCATION	P'wr W'ts	Wave L'ngth	Freq. Kilo.	Dis- tance	Dial 1	Dial 2	Dial 3
KNX	Los Angeles Express	Los Angeles, Calif.	1000	336.9	890				
KOA	General Electric Co.	Denver, Colo.	5000	322.4	930				
KOB	N.M.Col.ofAgri.&Mech.Art	State College, N.M.	1000	348.6	860				
KOCH	Central H. S.	Omaha, Nebr.	250	258	1160				
KOCW	Okla. College for Women	Chickasha, Okla.	200	252	1190				
KOIL	Monarch Mfg. Co.	Council Bluffs, Iowa	500	278	1080				
KPO	Hale Bros.	San Francisco, Calif.	1000	428.3	700				
KPPC	Pasadena Pres. Church	Pasadena, Calif.	50	229	1310				
KPRC	Post Dispatch	Houston, Texas	500	296.9	1010				
KPSN	Pasadena Star-News	Pasadena, Calif.	1000	315.6	950				
KQP	H. B. Read	Portland, Oregon	500	212.6	1410				
KQV	Doubleday-Hill Elec. Co.	Pittsburg, Pa.	500	275	1090				
KQW	1st Baptist Church	San Jose, Calif.	500	231	1300				
KRE	Berkeley Daily Gazette	Berkeley, Calif.	150	256	1170				
KSAC	Kansas State Agri. College	Manhattan, Kans.	500	340.7	880				
KSD	Post Dispatch	St. Louis, Mo.	500	545.1	550				
KSL	Desert News	Salt Lake City, Utah	1000	299.8	1000				
KSMR	Santa Maria Val. R.R. Co.	Santa Maria, Calif.	100	209.7	1430				
KSO	A. A. Berry Seed Co.	Clarinda, Iowa	500	242	1240				
KTAB	Associated Broadcasters	Oakland, Calif.	1000	240	1250				
KTBI	Bible Inst. of Los Angeles	Los Angeles, Calif.	750	293.9	1020				
KTBR	Brown's Radio Shop	Portland, Oregon	50	263	1140				
KTCL	American Radio & Tel. Co.	Seattle, Wash.	1000	305.9	980				
KTHS	New Arlington Hotel	Hot Springs, Ark.	750	374.8	800				
KTNT	Norman Baker	Muscatine, Iowa	500	256	1170				
KTW	First Presbyterian Church	Seattle, Wash.	1000	454.3	660				
KUO	Examiner Printing Co.	San Francisco, Calif.	150	250	1200				
KUOA	University of Arkansas	Fayetteville, Ark.	750	299.8	1000				
KUOM	University of Montana	Missoula, Mont.	250	244	1230				

# BROADCASTING STATIONS

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CALL	STATION OWNER	LOCATION	P'wr W'ts	Wave L'ngth	Freq. Kilo.	Dis- tance	Dial 1	Dial 2	Dial 3
KUSD	University of S. D.	Vermillion, S. D.	200	278	1080				
KUT	University of Texas	Austin, Texas	500	231	1300				
KVOO	Voice of Oklahoma	Bristow, Okla.	500	374.8	800				
KWCR	H. F. Paar	Cedar Rapids, Iowa	500	278	1080				
KWG	Portable Wireless Tel. Co.	Stockton, Calif.	50	248	1210				
KWKC	Wilson Duncan Studios	Kansas City, Mo.	100	236	1270				
KWKH	W. G. Patterson	Kennonwood, La.	500	261	1150				
KWSC	Wash. State College	Pullman, Wash.	500	348.6	860				
KWWG	City of Brownsville	Brownsville, Texas	500	278	1080				
KYW	Westinghouse El.&Mfg. Co.	Chicago, Ill.	2000	535.4	560				
KZKZ	Radio Corp. of Philippines	Manila, P. I.	500	272	1100				
KZRQ	Far Eastern Radio, Inc.	Manila, P. I.	500	375	800				
KZM	Hotel Oakland	Oakland, Calif.	100	240	1250				
KZUY	F. Johnson Elser	Bagio, P. I.	500	360	833				
NAA	U. S. Navy	Radio, Va.	1000	434.5	1290				
PWX	International Tel.&Tel. Co.	Havana, Cuba	500	400	750				
WAAB	Valdemar Jensen	New Orleans, La.	100	268	1120				
WAAF	Chgo. Daily Drovers Jrn'l.	Chicago, Ill.	200	278	1080				
WAAM	I. R. Nelson Co.	Newark, N. J.	500	263	1140				
WAAW	Omaha Grain Exchange	Omaha, Nebr.	500	384.4	780				
WABI	First Univ. Church	Bangor, Maine	100	240	1250				
WABO	Lake Ave. Baptist Church	Rochester, N. Y.	100	278	1080				
WABQ	Haverford Col. Radio Club	Haverford, Pa.	100	261	1150				
WABR	Scott High School	Toledo, Ohio	50	263	1140				
WABW	College of Wooster	Wooster, Ohio	50	206.8	1450				
WABX	Henry B. Joy	Mt. Clemens, Mich.	500	246	1220				
WABY	John Magaldi, Jr.	Philadelphia, Pa.	50	242	1240				
WABZ	Coliseum Pl. Baptist Ch.	New Orleans, La.	50	275	1090				
WADC	Allen Theatre	Akron, Ohio	500	258	1160				



## BROADCASTING STATIONS

CALL	STATION OWNER	LOCATION	P <sup>wr</sup> W <sup>ts</sup>	Wave L <sup>ngth</sup>	Freq. Kilo.	Dis- tance	Dial 1	Dial 2	Dial 3
WAFD	Albert B. Parfet Co.	Pt. Huron, Mich.	500	275	1090				
WAGM	R. L. Miller	Royal Oak, Mich.	50	258.6	1160				
WAHG	A. H. Grebe & Co.	Richmond Hill, N.Y.	500	315.6	950				
WAIU	American Insurance Union	Columbus, Ohio	500	293.9	1020				
WAMD	Radisson Radio Corp.	Minneapolis, Minn.	1000	244	1230				
WBAA	Purdue University	Lafayette, Ind.	250	273	1100				
WBAK	Penn. State Police	Harrisburg, Pa.	500	275	1090				
WBAL	Consol. Gas, Electric Light & Power Co.	Baltimore, Md.	1000	374.8	800				
WBAO	James Milliken University	Decatur, Ill.	100	270	1110				
WBAP	Wortham-Carter Pub. Co.	Ft. Worth, Texas	1500	475.9	630				
WBAX	John H. Stenger, Jr.	Wilkes Barre, Pa.	100	256	1170				
WBBL	Grace Covenant Church	Richmond, Va.	100	229	1310				
WBBM	Atlas Investment Co.	Chicago, Ill.	1500	226	1330				
WBBP	Petoskey High School	Petoskey, Mich.	200	238	1260				
WBBR	Peoples Pulpit Association	Rossville, N. Y.	500	273	1100				
WBBS	First Baptist Church	New Orleans, La.	50	252	1190				
WBBW	Ruffner Junior High School	Norfolk, Va.	50	222	1350				
WBBZ	C. L. Carrell	Chicago, Ill.	50	215.7	1390				
WBCN	Foster & McDonnell	Chicago, Ill.	500	266	1130				
WBDC	Baxter Laundry Co.	Grand Rapids, Mich.	500	256	1770				
WBES	Bliss Electrical School	Tacoma Park, Md.	100	222	1350				
WBNY	Shirley Katz	New York, N. Y.	500	209.7	1430				
WBOQ	A. H. Grebe & Co.	Richmond Hill, N.Y.	100	236	1270				
WBRC	Bell Radio Corporation	Birmingham, Ala.	50	248	1210				
WBRE	Baltimore Radio Exchange	Wilkes Barre, Pa.	100	231	1300				
WBT	Charlotte Chamber Com.	Charlotte, N. C.	250	275	1090				
WBZ	Westinghouse Electric & Manufacturing Co.	Springfield, Mass.	2000	331.1	900				
WBZA	Westinghouse El.&Mfg. Co.	Boston, Mass.	250	242	1240				

# BROADCASTING STATIONS

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CALL	STATION OWNER	LOCATION	P'wr W'ts	Wave L'ngth	Freq. Kilo.	Dis- tance	Dial 1	Dial 2	Dial 3
WCAC	Conn. Agric. College	Mansheld, Conn.	500	275	1090				
WCAD	St. Lawrence University	Canton, N. Y.	250	263	1140				
WCAE	Kaufman & Baer Co.	Pittsburg, Pa.	500	461.3	650				
WCAJ	Nebr. Wesleyan University	University Pl. Neb.	300	254	1180				
WCAL	St. Olaf College	Northfield, Minn.	500	336.9	890				
WCAM	Galvin Radio Co.	Camden, N. J.	500	236	1270				
WCAO	A. G. & A. S. Brager	Baltimore, Md.	100	275	1090				
WCAP	Chcsapeake & Potomac Tel. Company	Washington, D. C.	500	468.5	640				
WCAR	Southern Radio Cp. of Tex.	San Antonio, Tex.	500	263	1140				
WCAT	S.D. State School of Mines	Rapid City, S. D.	50	240	1250				
WCAU	Durham & Co.	Philadelphia, Pa.	500	278	1080				
WCAX	University of Vermont	Burlington, Vt.	100	250	1200				
WCBA	Queen City Radio Station	Allentown, Pa.	15	254	1180				
WCBD	Wilbur G. Voliva	Zion, Ill.	5000	344.6	870				
WCBH	University of Mississippi	Oxford, Miss.	50	242	1240				
WCBM	Charles Chateau	Baltimore, Md.	50	299	1310				
WCBQ	First Baptist Church	Nashville, Tenn.	100	242	1240				
WCCO	Washburn Crosby Co.	St. Paul and Minneapolis, Minn.	5000	416.4	720				
WCLO	C. E. Whitmore	Camp Lake, Wis.	50	231	1300				
WCLS	H. M. Couch	Joliet, Ill.	150	214.2	1400				
WCOA	City of Pensacola	Pensacola, Fla.	250	222.1	1350				
WCSH	Congress Square Hotel Co.	Portland, Maine	500	256	1170				
WCSO	Wittenberg College	Springfield, Ohio	100	248	1200				
WCUW	Clark University	Worcester, Mass.	250	238	1260				
WCX	Detroit Free Press	Pontiac, Mich.	2500	516.6	820				
WDAD	Dad'sAuto Accessories, Inc	Nashville, Tenn.	150	226	1330				
WDAE	Tampa Daily Times	Tampa, Fla.	250	273	1100				
WDAF	Kansas City Star	Kansas City, Mo.	500	365.6	820				

## BROADCASTING STATIONS

CALL	STATION OWNER	LOCATION	P'wr W'ts	Wave L'ngth	Freq. Kilo.	Dis- tance	Dial 1	Dial 2	Dial 3
WDAG	J. Laurance Nartin	Amarillo, Texas	100	263	1140				
WDAH	Trinity Methodist Church	El Paso, Texas	50	268	1120				
WDAY	Radio Equipment Corp.	Fargo, N. D.	50	261	1150				
WBBC	Kirk, Johnson & Co.	Lancaster, Pa.	50	258	1160				
WDBE	Gilham-Schoen Elec. Co.	Atlanta, Ga.	100	270	1110				
WDBJ	RichardsonWayland El.Cp.	Roanoke, Va.	50	229	1310				
WDBK	M. F. Broz. Furn. Store	Cleveland, Ohio	100	227	1320				
WDBO	Rollins College	Winter Park, Fla.	500	240	1250				
WDCH	Dartmouth College	Hanover, N. H.	100	256	1170				
WDOD	Chattanooga Radio Co.	Chattanooga, Tenn.	500	256	1170				
WDRC	Doolittle Radio Corp.	New Haven, Conn.	100	268	1120				
WDWF	Dutee W. Flint	Cranston, R. I.	500	440.9	680				
WDZ	James L. Bush	Tuscola, Ill.	100	278	1080				
WEAF	American Tel. & Tel. Co.	New York, N. Y.	5000	491.5	610				
WEAI	Cornell University	Ithaca, N. Y.	500	286	1050				
WEAM	Borough of N. Plainfield	N. Plainfield, N. J.	250	261	1150				
WEAN	Shepard Co.	Providence, R. I.	500	270	1110				
WEAO	Ohio State University	Columbus, Ohio	500	293.9	1020				
WEAR	Goodyear Tire & Rub. Co.	Cleveland, Ohio	750	389.4	770				
WEBC	W. C. Bridges	Superior, Wis.	100	242	1240				
WEBD	Electric Equip. Service Co.	Anderson, Ind.	15	246	1220				
WEBH	Edgewater Beach Hotel	Chicago, Ill.	2000	370.2	810				
WEBJ	Third Ave. Railway Co.	New York, N. Y.	500	272.6	1100				
WEBL	R. C. A. U. S.	Portable	100	226	1330				
WEBM	R. C. A.	Mobile, Alabama	100	226	1330				
WEBQ	Jos. R. Tate	Harrisburg, Ill.	10	226	1330				
WEBR	H. H. Howell	Buffalo, N. Y.	100	244	1230				
WEBW	Beloit College	Beloit, Wis.	500	268	1120				
WEEI	Edison Elec. Illum. Co.	Boston, Mass.	500	348.6	860				

# BROADCASTING STATIONS

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CALL	STATION OWNER	LOCATION	P'wr	Wave	Freq.	Dis- tance	Dial 1	Dial 2	Dial 3
			W'ts	L'ngth	Kilo.				
WEMC	Emanuel Missionary Col.	Berrien Spgs., Mich.	500	285.5	1050				
WENR	All American Radio Corp.	Chicago, Ill.	1000	266	1120				
WEW	St. Louis University	St. Louis, Mo.	1000	248	1200				
WFAA	DallasNews&DallasJournal	Dallas, Texas	500	476	630				
WFAV	University of Nebr. Dept. of Electric Engineering	Lincoln, Nebr.	500	275	1090				
WFBC	First Baptist Church	Knoxville, Tenn.	50	250	1200				
WFBG	William F. Gable Co.	Altoona, Pa.	100	278	1080				
WFBH	Concourse Radio Corp.	Richmond, N. Y.	500	273	1100				
WFBJ	St. John's University	Collegeville, Minn.	100	236	1270				
WFBL	Onandaga Hotel Co.	Syracuse, N. Y.	100	252	1190				
WFBM	Merchants Heat & Lt. Co.	Indianapolis, Ind.	250	268	1120				
WFBR	Fifth Infantry, M. N. G.	Baltimore, Md.	100	254	1180				
WFDF	F. D. Fallain	Flint, Mich.	100	234	1280				
WFI	Strawbridge & Clothier	Philadelphia, Pa.	500	394.5	760				
WFKB	Francis K. Bridgman	Chicago, Ill.	500	217.3	1380				
WFRL	Robert M. Lacey	Brooklyn, N. Y.	100	205.4	1460				
WGBB	Harry H. Carman	Freeport, N. Y.	100	244	1240				
WGBF	The Fink Furniture Co.	Evansville, Ind.	500	236	1270				
WGBS	Gimbel Bros.	New York City	500	315.6	950				
WGBU	Florida Cities Finance Co.	Fulford-by-the-Sea. Florida	500	278	1080				
WGBX	University of Maine	Orono, Maine	500	234.2	1280				
WGCP	Grand Central Palace	Newark, N. J.	500	252	1190				
WGES	Coyne Electrical School	Oak Park, Ill.	500	250	1200				
WGHB	G. H. Bowles Devel. Co.	Clearwater, Fla.	500	266	1130				
WGHP	Geo. H. Phelps	Detroit, Mich.	1500	270	1110				
WGMU	A. H. Grebe & Co. (Port.)	RichmondHill, N.Y.	100	236	1270				
WGN	Chgo. Trib. (Drake Hotel)	Chicago, Ill.	1000	370.2	810				
WGR	Federal Radio Corp.	Buffalo, N. Y.	750	319	940				

## BROADCASTING STATIONS

CALL	STATION OWNER	LOCATION	P'wr W'ts	Wave L'ngth	Freq. Kilo.	Dis- tance	Dial 1	Dial 2	Dial 3
WGST	Georgia School Technology	Atlanta, Ga.	500	270	1110				
WGY	General Electric Company	Schenectady, N. Y.	5000	379.5	790				
WHA	University of Wisconsin	Madison, Wis.	750	535.4	560				
WHAD	Marquette University	Milwaukee, Wis.	500	275	1090				
WHAM	University of Rochester	Rochester, N. Y.	100	278	1030				
WHAP	Wm. H. Taylor Fin. Corp.	New York, N. Y.	500	240	1250				
WHAR	Seaside House	Atlantic City, N. J.	500	275	1090				
WHAS	Courier Journal and Louisville Times	Louisville, Ky.	500	399.8	750				
WGWY	Twin City Business Men's Broadcasting Station	Minneapolis, Minn.	500	263	1120				
WHAV	Wilmington Elec. Spec. Co.	Wilmington, Del.	100	266	1130				
WHAZ	Rensselaer Polytechnic Inst	Troy, N. Y.	1000	379.5	790				
WHB	Sweeney School Company	Kansas City, Mo.	500	365.6	820				
WHBF	Beardsley Specialty Co.	Rock Island, Ill.	100	222	1350				
WHBH	Culver Military Academy	Culver, Ind.	100	222	1350				
WHBJ	Laue Auto Co.	Ft. Wayne, Ind.	50	234	1280				
WHBL	James H. Slusser (Portable)	Logansport, Ind.	50	215.7	1390				
WHBP	Johnstown Automobile Co.	Johnstown, Pa.	100	256	1170				
WHBQ	St. John's M. E. Church	Memphis, Tenn.	50	233	1290				
WHBW	D. R. Kienzle	Philadelphia, Pa.	100	242	1240				
WHBY	St. Norbert's College	W. DePere, Wis.	50	250	1200				
WHDI	William Hood Dunwoody Industrial Institute	Minneapolis, Minn.	500	278	1080				
WHEC	Hickson Electric Co.	Rochester, N. Y.	100	258	1160				
WHK	Radio Air Service Corp.	Cleveland, Ohio		273	1100				
WHN	Loew's State Brdcast'g. Sta.	New York City	1000	361.2	830				
WHO	Bankers Life Company	Des Moines, Iowa	5000	526	570				
WHT	Radiophone Broadcasting Corporation	Deerfield, Ill.	3500	400	750				
WIAD	Howard R. Miller	Philadelphia, Pa.	100	250	1200				

# BROADCASTING STATIONS

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CALL	STATION OWNER	LOCATION	P'wr W'ts	Wave L'ngth	Freq. Kilo.	Dis- tance	Dial 1	Dial 2	Dial 3
WIAS	Home Electric Company	Burlington, Iowa	100	254	1180				
WIBA	Capitol Times Studio	Madison, Wis.	100	236	1270				
WIBG	St. Paul's Protest. Esp. Ch.	Elkins Pk., Pa.	50	222	1350				
WIBI	Frederick B. Zittell, Jr.	Flushing, N. Y.	50	218.8	1370				
WIBJ	C. L. Carrell (Port. Sta.)	Chicago, Ill.	50	215.7	1390				
WIBO	Nelson Brothers	Chicago, Ill.	1000	226	1330				
WIBR	Thrumman A. Owings	Weirton, W. Va.	50	246	1220				
WIBW	Dr. L. L. Dill	Logansport, Ind.	100	220	1360				
WIBX	Grid Leak, Inc.	Utica, N. Y.	150	205.4	1460				
WIL	BensonRadioCo.(Port.Sta.)	St. Louis, Mo.	250	273	1100				
WIOD	C. G. Fisher	Miami, Fla.	1000	247.8	1210				
WIP	Gimbel Bros.	Philadelphia, Pa.	500	508.2	590				
WJAD	Jackson's Radio Eng. Lab.	Waco, Texas	500	352.7	850				
WJAG	Norfolk Daily News	Norfolk, Nebr.	200	270	1110				
WJAK	Kokomo Tribune	Kokomo, Ind.	50	254	1180				
WJAM	D. M. Perham	Cedar Rapids, Iowa	100	268	1120				
WJAR	The Outlet Company	Providence, R. I.	500	309.9	980				
WJAS	Pittsburg Radio Sup. House	Pittsburg, Pa.	500	275	1090	564			2
WJAX	City of Jacksonville	Jacksonville, Fla.	1000	336.9	890				
WJAZ	Zenith Radio Corporation	Mt. Prospect, Ill.	1500	322.4	930				
WJBA	D. H. Lentz, Jr.	Joliet, Ill.	50	206.8	1450				
WJBC	Hummer Furniture Co.	La Salle, Ill.	100	234	1280				
WJBI	R. S. Johnson	Red Bank, N. J.	250	218.8	1370				
WJBL	Wm. Gushard D. G. Co.	Decatur, Ill.	500	270	1110				
WJBQ	Bucknell University	Lewisburg, Pa.	100	211.1	1420				
WJJD	Supreme Lodge Loyal Order of Moose	Mooseheart, Ill.	1000	302.8	990				
WJR	Jewett Radio Co.	Pontiac and Detroit, Michigan	5000	516.9	580				
WJY	R. C. A.	New York City	1000	405.2	740				

## BROADCASTING STATIONS

CALL	STATION OWNER	LOCATION	P'wr W'ts	Wave L'ngth	Freq. Kilo.	Dis- tance	Dial 1	Dial 2	Dial 3
WJZ	R. C. A.	New York City	var.	454.3	660				
WKAF	WKAF Broadcasting Co.	Milwaukee, Wis.	500	261	1150				
WKAQ	Radio Corp. of Porto Rico	San Juan, Porto Rico	500	340.7	880				
WKAR	Michigan State College	E. Lansing, Mich.	1000	285.5	1050				
WKAU	Laconia Radio Club	Laconia, N. H.	60	224	1340				
WKBB	Sanders Bros.	Joliet, Ill.	100	214.2	1400				
WKBE	K & B Electric Co.	Webster, Mass.	100	231	1300				
WKBG	C. L. Carrell (Portable)	Chicago, Ill.	100	215.7	1390				
WKRC	Kodel Radio Corp.	Cincinnati, Ohio	1000	422.3	920				
WKY	Hull & Richards	Oklahoma, Okla.	100	275	1090				
WLAL	First Christian Church	Tulsa, Okla.	100	250	1200				
WLB	University of Minnesota	Minneapolis, Minn.	500	278	1080				
WLBL	Wis. Dept. of Markets	Stephens Point, Wis.	500	278	1080				
WLIB	Liberty Weekly	Elgin, Ill.	4000	275.1	1090				
WLIT	Lit Brothers	Philadelphia, Pa.	500	394.5	760				
WLS	Sears, Roebuck & Co.	Crete, Ill.	5000	344.6	870				
WLTS	Lane Tech. High School	Chicago, Ill.	100	258	1160				
WLW	Crosley Radio Corporation	Cincinnati, O.	5000	422.3	710				
WLWL	Missionary Society of St. Paul the Apostle	New York, N. Y.	1500	288.3	1040				
WMAC	Clive B. Meredith	Cazenovia, N. Y.	100	275	1090				
WMAF	Round Hill's Radio Corp.	Dartmouth, Mass.	1000	440.9	680				
WMAK	Norton Laboratory	Lockport, N. Y.	500	266	1130				
WMAN	First Baptist Church	Columbus, Ohio	50	278	1080				
WMAQ	Chicago Daily News	Chicago, Ill.	500	447.5	670				
WMAY	Kings Highway Pres. Ch.	St. Louis, Mo.	100	248	1210				
WMAZ	Mercer University	Macon, Ga.	500	261	1150				
WMBB	American Bond & Mortgage Co.	Chicago, Ill.	500	250	1200				
WMBC	Mich. Broadcasting Co.	Detroit, Mich.	100	256.4	1170				

# BROADCASTING STATIONS

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CALL	STATION OWNER	LOCATION	P <sup>wr</sup> W'ts	Wave L'ngth	Freq. Kilo.	Dis- tance	Dial 1	Dial 2	Dial 3
WMBF	Fleetwood Hotel	Miami Beach, Fla.	500	348.4	780				
WMC	Commercial Appeal	Memphis, Tenn.	500	499.7	600				
WMCA	Greeley Square Hotel Co.	Hoboken, N. J.	500	340.7					
WNAB	Shepard Stores	Boston, Mass.	100	250	1200				
WNAC	Shepard Stores	Boston, Mass.	500	280.2	1070				
WNAD	University of Oklahoma	Norman, Okla.	500	254	1180				
WNAL	Central H. S.	Omaha, Nebr.	50	258	1160				
WNAT	Lenning Bros. Company	Philadelphia, Pa.	100	250	1200				
WNAX	Dak. Radio Apparatus Co.	Yankton, S. D.	100	244	1230				
WNBH	I. J. Vermilya & A. J. Lopez	New Bedford, Mass.	250	248	1210				
WNJ	Radio Shop of Newark	Newark, N. J.	150	252	1190				
WNOX	Peoples Tel. & Tel. Co.	Knoxville, Tenn.	500	268	1120				
WNYC	City of New York	New York City	1000	526	570				
WOAI	Southern Equipment Co.	San Antonio, Tex.	2000	394.5	760				
WOAN	James B. Vaughan	Lawrenceburg, Tenn	500	282.8	1060				
WOAW	Woodmen of the World	Omaha, Nebr.	1000	526	570				
WOAX	Franklin J. Wolff	Trenton, N. J.	500	240	1250				
WOC	Palmer School Chiropractic	Davenport, Iowa	5000	483.6	620				
WODA	James K. O'Dea Radio-Vic- trola Shop	Paterson, N. J.	250	224	1340				
WOI	Iowa State College	Ames, Iowa	750	270	1110				
WOK	Neutrowound Radio Mfg. Company	Homewood, Ill.	5000	217.3	1380				
WOKO	Dyckman Radio Shop	New York, N. Y.	50	233	1290				
WOO	John Wanamaker	Philadelphia, Pa.	500	508.2	590				
WOOD	Grand Rapids Radio	Gd. Rapids, Mich.	500	242	1240				
WOQ	Unity School Christianity	Kansas City, Mo.	1000	278	1080				
WOR	L. Bamberger & Co.	Newark, N. J.	500	405.2	740				
WORD	Peoples Pulpit Association	Batavia, Ill.	5000	275	1090				
WOS	Mo. State Mgt'g. Bureau	Jefferson City, Mo.	500	440.9	680				



## BROADCASTING STATIONS

CALL	STATION OWNER	LOCATION	P <sup>wr</sup> W'ts	Wave L'ngth	Freq. Kilo.	Dis- tance	Dial 1	Dial 2	Dial 3
WOWU	Main Auto Supply Co.	Fort Wayne, Ind.	500	221	1320				
WPAK	N. Dak. Agric. College	Agric. College, N.D.	100	275	1090				
WPCC	No. Shore Cong. Church	Chicago, Ill.	500	258	0160				
WPG	Municipality of Atlantic City, New Jersey	Atlantic City, N. J.	500	299.8	1000				
WPRC	Wilson Ptg. & Radio Co.	Harrisburg, Pa.	100	215.7	1390				
WPSC	Penn. State College	State College, Pa.	500	261	0050				
WQAA	Horace A. Beale, Jr.	Parkersburg, Pa.	500	220	1360				
WQAE	Moore Radio News Station	Springfield, Vt.	50	246	1220				
WQAM	Electrical Equipment Co.	Miami, Fla.	100	263	1140				
WQAN	Scranton Times	Scranton, Pa.	100	50	1200				
WQAO	Calvary Baptist Church	New York, N. Y.	100	360	833				
WQJ	Calumet Rainbo Broadcast- ing Company	Chicago, Ill.	500	447.5	670				
WRAF	Radio Company	LaPorte, Ind.	100	224	1340				
WRAK	Economy Light Co.	Escanaba, Mich.	100	256	1170				
WRAM	Lombard College	Galesburg, Ill.	100	244	1230				
WRAV	Antioch College	Yellow Springs, O.	100	263	1140				
WRAX	Flaxon's Garage	Gloucester City, N.J.	500	268	1120				
WRBC	Immanuel Luth. Church	Valparaiso, Ind.	500	278	1080				
WRC	Radio Corp. of America	Washington, D. C.	1000	468.5	640				
WRCO	Wynne Radio Co.	Raleigh, N. C.	100	252	1090				
WREO	Reo Motor Car Co.	Lansing, Mich.	500	285.5	1050				
WRHM	Rosedale Hospital	Minneapolis, Minn.	50	252	1190				
WRK	Doron Bros. Elec. Co.	Hamilton, Ohio	200	270	1110				
WRM	University of Illinois	Urbana, Ill.	500	273	1100				
WRMU	A. H. Grebe & Co.	New York, N. Y.	100	236	1270				
WRNY	Experimenter Publishing Company	New York, N. Y.	500	258.5	1160				
WRR	City of Dallas Police and Fire Signal Dept.	Dallas, Texas	500	246	1220				

# BROADCASTING STATIONS

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CALL	STATION OWNER	LOCATION	P'wr W'ts	Wave L'ngth	Freq. Kilo.	Dis- tance	Dial 1	Dial 2	Dial 3
WRST	Radiotel Mfg. Co.	Bay Shore, N. Y.	250	215.7	1390				
WRVA	Larus & Brother Co.	Richmond, Va.	1000	256	1170				
WRW	Tarrytown Radio Research Lab.	Tarrytown, N. Y.	500	273	1100				
WSAI	U. S. Playing Card Co.	Mason, Ohio	5000	325.9	920				
WSAJ	Grove City College	Grove City, Pa.	250	229	1310				
WSAN	Allentown Call Pub. Co.	Allentown, Pa.	100	229	1310				
WSAR	Doughty & Welch Elec'l. Co.	Fall River, Mass.	100	254	1180				
WSAX	Zenith Radio Corp.	Chicago, Ill.	100	208	1120				
WSAZ	Chase Elec. Shop	Pomeroy, Ohio	50	244	1230				
WSB	Atlanta Journal	Atlanta, Ga.	1000	428.3	700				
WSBC	World Battery Co.	Chicago, Ill.	1000	209.7	1430				
WSBF	Stix, Baer & Fuller D.G.Co.	St. Louis, Mo.	250	273	1100				
WSBT	South Bend Tribune	South Bend, Ind.	250	275	1090				
WSDA	The City Temple	New York City	250	263	1140				
WSKC	World's Star Knitting Co.	Bay City, Mich.	100	261	1150				
WSM	National Life & Accident Insurance Co.	Nashville, Tenn.	1000	282.8	1060				
WSMB	Saenger Amusement and Maison Blanche Co.	New Orleans, La.	500	319	940				
WSMK	S. K. Radio Corporation	Dayton, Ohio	500	275.2	1090				
WSOE	School of Eng. of Milw.	Milwaukee, Wis.	500	246	1220				
WSSH	Tremont Temp. Baptist Ch	Boston, Mass.	100	261	1150				
WSRO	Radio Co. (Harry W. Fahr- lander)	Hamilton, Ohio	100	252	1190				
WSUI	State University of Iowa	Iowa City, Iowa	500	483.6	620				
WTAB	F.River Dly.Hr'ld.Pub. Co.	Fall River, Mass.	100	266	1130				
WTAD	R. E. Compton	Carthage, Ill.	50	236	1270				
WTAG	Worcester Telegram	Worcester, Mass.	500	268	1120				
WTAM	Willard Storage Battery Co.	Cleveland, Ohio	3500	389.4	770				
WTAP	Cambridge Radio & El. Co.	Cambridge, Ill.	100	242	1240				

## BROADCASTING STATIONS

CALL	STATION OWNER	LOCATION	P'wr W'ts	Wave L'ngth	Freq. Kilo.	Dis- tance	Dial 1	Dial 2	Dial 3
WTAQ	S. H. VanGordon & Son	Osseo, Wis.	100	254	1180				
WTAR	Reliance Electric Co.	Norfolk, Va.	100	261	1150				
WTAW	Agricultural & Mechanical College of Texas	College Sta., Tex.	500	270	1110				
WTAX	Williams Hardware Co.	Streater, Ill.	50	231	1300				
WTIC	Travelers Insurance Co.	Hartford, Conn.	500	475.9	630				
WWAD	Wright & Wright	Philadelphia, Pa.	250	250	1200				
WWAE	Electric Park	Plainfield, Ill.	5000	242	1240				
WWGL	Radio Eng. Corp.	Richmond Hill, N. Y.	500	212.6	1410				
WWAO	Mich. College of Mines	Houghton, Mich.	250	263	1140				
WWI	Ford Motor Co.	Dearborn, Mich.	500	266	1130				
WWJ	Detroit News	Detroit, Mich.	1500	352.7	850				
WWL	Loyola University	New Orleans, La.	100	275	1090				

# BROADCASTING STATIONS

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Location	Calls	Location	Calls
Agricultural College, N. D.	WPAK	Decatur, Ill.	WBAO, WJBL
Akron, Ohio	WADC	Deerfield, Ill.	WHT
Albuquerque, N. Mex.	KFLR	Denver, Colo.	KFEL, KFUP, KFXJ,
Allentown, Pa.	WSAN, WCBA	KLZ, KOA	
Altoona, Pa.	WFBG	Des Moines, Iowa	WHO
Amarillo, Texas	WDAG	Detroit, Mich.	WCX, WGHP, WJR, WWJ, WMBC
Ames, Iowa	WOI	East Lansing, Mich.	WKAR
Anderson, Ind.	WEBD	East Pittsburg, Pa.	KDKA
Anchorage, Alaska	KFQD	Elgin, Ill.	WLIB
Arlington, Va.	NHA	Elkins Park, Pa.	WIBG
Atlanta, Ga.	WDBE, WGST, WSB	El Paso, Texas	WDAH, KFXH
Anita, Iowa	KFLZ	Elyria, Ohio	WGBL
Atlantic City, N. J.	WHAR, WPG	Eureka, Calif.	KFVU
Austin, Texas	KUT	Evanston, Ill.	WEHS
Avalon, Calif.	KFWD	Everett, Wash.	KFBL
Bakersfield, Calif.	KDZB	Fairmont, Minn.	KFVN
Baltimore, Md.	WBAL, WCAO, WCBM, WFBR	Fall River, Mass.	WSAR, WTAB
Bangor, Maine	WABI	Fargo, N. D.	WDAY
Batavia, Ill.	WORD	Fayetteville, Ark.	KUOA
Bay City, Mich.	WSKC	Flagstaff, Ariz.	KFXV
Bay Shore, N. Y.	WRST	Flint, Mich.	WFDV
Beaumont, Texas	KFDM	Flushing, N. Y.	WIBI
Beeville, Texas	KFRB	Fond du Lac, Wis.	KFIZ
Beloit, Wis.	WEBW	Fort Bragg, N. C.	AT9
Berkeley, Calif.	KRE	Fort Dodge, Iowa	KFIY
Berrien Springs, Mich.	WEMC	Fort Wayne, Ind.	WHBJ, WOWO
Big Bear Lake, Calif.	KFXB	Fort Worth, Texas	KFQB, WBAP
Birmingham, Ala.	WBRC	Freeport, N. Y.	WGBB
Boise, Idaho	KFAU, KFDD	Fresno, Calif.	KMJ
Boston, Mass.	WBZA, WEEI, WNAB,	Galesburg, Ill.	WRAM
WNAC, WSSH		Galveston, Texas	KFUL
Boulder, Colo.	KFAJ	Gloucester City, N. J.	WRAX
Bristow, Okla.	KVOO	Grand Forks, N. D.	KFJM
Brookings, S. D.	KFDY	Grand Rapids, Mich.	WOOD, WEDC
Brooklyn, N. Y.	WFRL, WHAP	Greeley, Colo.	KFKA
Brownsville, Texas	KWWG	Greencastle, Ind.	WLAX
Buffalo, N. Y.	WEBR, WGR	Gridley, Calif.	KFU
Burlingame, Calif.	KFQH	Grove City, Pa.	WSAJ
Burlington, Iowa	WIAS	Gunnison, Colo.	KFHA
Burlington, Vt.	WCAX	Hamilton, Ohio	WRK, WRSO
Cambridge, Ill.	WTAP	Hanover, N. H.	WDCH
Camden, N. J.	WCAM	Harrisburg, Pa.	WBAK, WPRC
Camp Lake, Wis.	WCLO	Harrison, Ohio	WLW
Canton, N. Y.	WCAD	Hartford, Conn.	WTIC
Cape Girardeau, Mo.	KFVS	Hastings, Nebr.	KFKX
Carthage, Ill.	WTAD	Havana, Cuba	PWX
Cazenovia, N. Y.	WMAC	Haverford, Pa.	WABQ
Cedar Rapids, Iowa	WJAM, WKAA	Havr, Mont.	KFBB
Charlotte, N. C.	WBT	Hollywood, Calif.	KFQZ, KFWB, KNRC
Chattanooga, Tenn.	WDOD	Holy City, Calif.	KWQ
Chicago, Ill.	KYW, WAAF, WBBZ, WBCN,	Homewood, Ill.	WOK
WDBY, WEBH, WENR, WFKB, WGN,		Homolulu, Hawaii	KGU
WIBO, WIBJ, WJAZ, WKBG, WLS, WLTS,		Hot Springs, Ark.	KTHS
WMAQ, WMBB, WQJ, WSBC, WSHX		Houghton, Mich.	KMFV
Chickasha, Okla.	KFGD	Houston, Texas	KPKR
Chico, Calif.	KFWH	Independence, Mo.	KLDS
Cincinnati, Ohio	WKRC, WLW	Indianapolis, Ind.	WFBM
Clarinda, Iowa	KSO	Iowa City, Iowa	WSUI
Clay Center, Nebr.	KMMJ	Ithaca, N. Y.	WEAI
Clearwater, Fla.	WGHJ	Jacksonville, Fla.	WJAX
Cleveland, O.	WEAR, WDBK, WHK, WTAM	Jefferson City, Mo.	WOS
College Station, Texas	WTAW	Johnstown, Pa.	WHBP
Collegeville, Minn.	WFBJ	Joliet, Ill.	WCLS, WJBA, WJBI, WKBB
Colorado Springs, Colo.	KFUM, KFXF	Kansas City, Mo.	KWKC, WDAF, WHB, WOQ
Columbia, Mo.	KFRU	Knoxville, Tenn.	WFBC, WNOX
Columbus, O.	WAIV, WEO, WMAN	Kokomo, Ind.	WJAK
Corvallis, Oregon	KFDJ	Kurak Bay, Alaska	KNT
Council Bluffs, Iowa	KOIL	Laconia, N. H.	WKAV
Cranston, R. I.	WDWF	Lancaster, Pa.	WDBC
Culver, Ind.	WHBH	Lansing, Mich.	WREO
Dallas, Texas	WFAA, WRR	Laporte, Ind.	WRAF
Dartmouth, Mass.	WMAF	Laramie, Wyo.	KFBU
Davenport, Iowa	WOC	LaSalle, Ill.	WJBC
David City, Nebr.	KFOR	Lawrence, Kans.	KFKU
Dayton, Ohio	WSMK	Lawrenceburg, Tenn.	WOAN
Dearborn, Mich.	WWI	Lewisburg, Pa.	WJBQ

# 20 BROADCASTING STATIONS

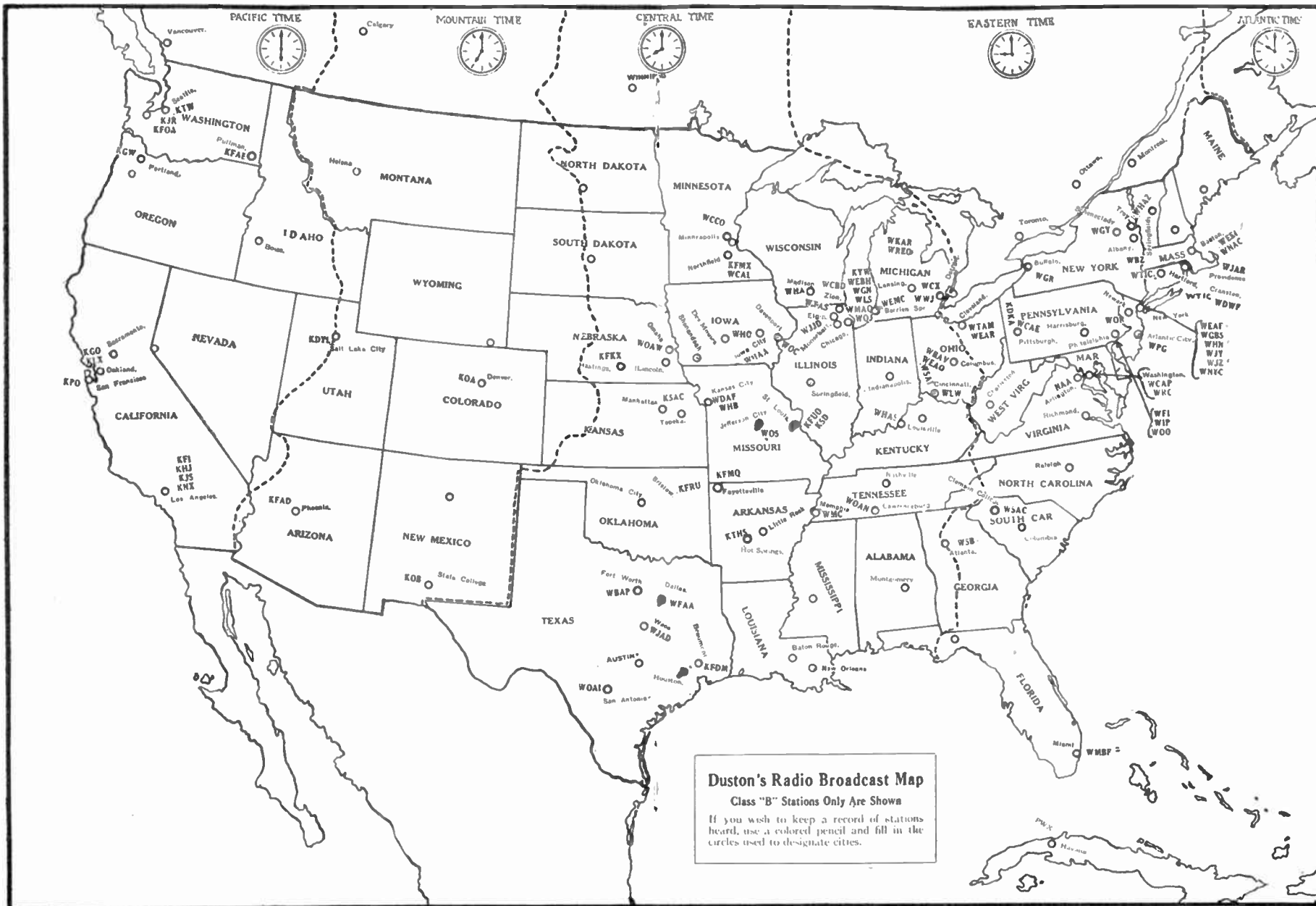
Location	Calls	Location	Calls
Lincoln, Ill.	WBBM	Richmond, Va.	WBBL, WRVA
Lincoln, Nebr.	KFAB, WFAV	Richmond Hill, N. Y.	WAHG, WBOQ, WGMU, WWGL
Lockport, N. Y.	WMAK	Roanoke, Va.	WDBJ
Logan, Utah	KFXD	Rochester, N. Y.	WABO, WHAM, WHEC
Logansport, Ind.	WIBW	Rockford, Ill.	KFLV
Long Beach, Calif.	KFON	Rock Island, Ill.	WBBF
Los Angeles, Calif.	KFI, KFPG, KFPR, KFSG, KHJ, KNX, KTBI	Rossville, N. Y.	WBRR
Louisville, Ky.	WHAS	Royal Oak, Mich.	WAGM
Macon, Ga.	WMAZ	Salt Lake City, Utah	KDYL, KFOO, KFUT, KSL
Madison, Wis.	WHA, WMC	Sacramento, Calif.	KFBK
Manhattan, Kans.	KSAC	San Antonio, Texas.	WCAR, WOAI
Manila, P. I.	KZKZ, KZRC	San Diego, Calif.	KFBC, KFVW
Mansfield, Conn.	WCAC	San Francisco, Calif.	KFRC, KFWI, KGTT, KJBS, KPO, KUO
Mason, Ohio	WSAI	San Jose, Calif.	KFAF, KQW
Medford Hillside, Mass.	WAF	San Juan, P. R.	WKAQ
Memphis, Tenn.	WMBQ, WMC	San Leandro, Calif.	KFUU
Miami, Fla.	WIOD, WGBU, WOAM	San Pedro, Calif.	KFVD
Miami Beach, Fla.	WMBF	Santa Maria, Calif.	KSMR
Milwaukee, Wis.	WKAF, WHAD, WSOE	Savannah, Ga.	WEBZ
Minneapolis, Minn.	WAMD, WCCO, WHDI, WLB, WRHM, WGWY	Schenectady, N. Y.	WGY
Missoula, Mont.	KUOM	Scranton, Pa.	WOAN
Moberly, Mo.	KFPF	Seattle, Wash.	KFOA, KHQ, KJR, KTCL, KTW
Mooshearth, Ill.	WJJD	Shenandoah, Iowa	KFNFL, KMA
Mt. Clemens, Mich.	WABX	Shreveport, La.	KFDX, KWKH
Muscataine, Iowa	KTNT	Sioux City, Iowa	KFMR
Nashville, Tenn.	WCBO, WDAD, WSM	South Bend, Ind.	WSBT
Newark, N. J.	WAAM, WGCP, WNJ, WOR	Spokane, Wash.	KFPY
New Bedford, Mass.	WNBH	Springfield, Mass.	WCSE
New Haven, Conn.	WDRG	Springfield, Ohio	WQAE
New Orleans, La.	WAAB, WABZ, WSMB, WWL	Springfield, Vermont	KOB
New York, N. Y.	WBNY, WEAJ, WEBJ, WFBH, WGBS, WHN, WJY, WJZ, WLWL, WMCA, WNYC, WOKO, WQAO, WRMU, WRNY, WSDA	State College, N. M.	WPSC
Norfolk, Nebr.	WJAG	State College, Pa.	WLBL
Norfolk, Va.	WTAR	Stevens Point, Wis.	KFQA, KFUE, KFVW, KSD, WEW, WIL, WMAY, WSBF, KMOX
Norman, Okla.	WNAD	Stockton, Calif.	KWG
North Bend, Wash.	KFOW	St. Paul, Minn.	KFOY
Northfield, Minn.	KFMX, WCAL	Streator, Ill.	WTAX
North Plainfield, N. J.	WEAM	Superior, Wis.	WBCB
Oak, Nebr.	KFEQ	Syracuse, N. Y.	WFBL
Oakland, Calif.	KFUS, KFWM, KGO, KLS, KLX, KTAB, KZM, KZUY	Tacoma, Wash.	KMO
Oak Park, Ill.	WGES	Takoma Park, Md.	WBES
Ogden, Utah	KFUR, KFVA	Tampa, Fla.	WDAE
Oklahoma City, Okla.	KFJF, WKY	Tarrytown, N. Y.	WRW
Olympia, Wash.	KFRW	Toledo, Ohio	WABR
Omaha, Nebr.	KFOX, WAAW, WNAL, WOAW	Trenton, N. J.	WOAX
Orono, Maine	WGEX	Troy, N. Y.	WHAZ
Osseo, Wis.	WTAQ	Tulsa, Okla.	WLAL
Oxford, Miss.	WCBH	Tuscola, Ill.	WDZ
Parkersburg, Pa.	WQAA	U. S. (Portable) Woolworth Bldg.	WEBM
Pasadena, Calif.	KPPC, KPSN	University Place, Nebr.	WCAJ
Paterson, N. J.	WODA	Upland, Calif.	KFCV
Pensacola, Fla.	WCOA	Urbana, Ill.	WRM
Petoskey, Mich.	WBPP	Utica, N. Y.	WIBX
Philadelphia, Pa.	WABY, WCAU, WFI, WHBW, WIAD, WIP, WLIT, WNAT, WOO, WWAD	Valparaiso, Ind.	WRBC
Phoenix, Ariz.	KFAD, KFCB	Vermillion, S. D.	KUSD
Pittsburg, Pa.	KQV, WCAE, WJAS	Waco, Texas.	WJAD
Pineville, La.	KFWU	Washington, D. C.	WCAP, WRC
Plainfield, Ill.	WWAE	Webster, Mass.	WKBE
Pomeroy, Ohio.	WSAZ	Weirton, W. Va.	WIBR
Port Huron, Mich.	WAFD	West De Pere, Wis.	WHBY
Portland, Maine	WCSE	West LaFayette, Ind.	WBAA
Portland, Oregon.	KFEC, KFIF, KFJR, KGW, KFVW, KQP, KTBR	West Palm Beach, Fla.	WBBJ
Providence, R. I.	WEAN, WJAR	Wichita, Kans.	KFN, KFOT
Pullman, Wash.	KWSC	Wichita Falls, Texas	WKAF
Portable	WEBL	Wilkes-Barre, Pa.	WBAX, WBRE
Radio, Va.	NAA	Wilmington, Delaware	WHAV
Raleigh, N. C.	WRCO	Winter Park, Fla.	WDBO
Rapid City, S. D.	WCAT	Wooster, Ohio.	WABW
		Worcester, Mass.	WCWU, WTAG
		Yakima, Wash.	KFIQ
		Yankton, S. D.	WNAX
		Yellow Springs, Ohio	WRAV
		Zion, Ill.	WCBD

## CLASS "B" BROADCASTING STATIONS BY WAVE LENGTHS

Wave Length	Power Watts	Call Letters	Location	Wave Length	Power Watts	Call Letters	Location
206.8	500	KFWM	Oakland, Calif.	273	500	WFBH	New York, N. Y.
209.7	500	WBNY	New York, N. Y.	273	500	WBBR	Rossville, N. Y.
212.6	500	WWGL	Richmond Hill, N. Y.	275	500	WSMK	Dayton, Ohio
212.6	500	KQP	Portland, Ore.	275	5000	WORD	Batavia, Ill.
217.3	1000	WOK	Homewood, Ill.	275	500	WJAS	Pittsburg, Pa.
217.3	500	WFKB	Chicago, Ill.	275	500	WHAR	Atlantic City, N. J.
220	500	WQAA	Parkersburg, Pa.	275	500	WHAD	Milwaukee, Wis.
225	500	KFWI	San Francisco, Calif.	275	500	WFAV	Lincoln, Nebr.
226	1000	WIBO	Chicago, Ill.	275	500	KFKU	Lawrence, Kans.
226	1500	WBBM	Chicago, Ill.	275	500	KFSG	Los Angeles, Calif.
227	5000	WOWO	Fort Wayne, Ind.	275	500	KQV	Pittsburg, Pa.
227	500	KQW	San Jose, Calif.	275	500	WAFD	Pt. Huron, Mich.
229	500	KMMJ	Clay Center, Neb	275	500	WBAK	Harrisburg, Pa.
231	500	KFPR	Los Angeles, Calif.	275	500	WCAC	Mansfield, Conn.
231	500	KUT	Austin, Texas	275.1	1000	WLIB	Elgin, Ill.
240	500	KFVE	St. Louis, Mo.	278	1000	WOO	Kansas City, Mo.
240	500	KTAB	Oakland, Calif.	278	500	WRBC	Valparaiso, Ind.
240	500	WOAX	Trenton, N. J.	278	500	WLBL	Stevens Point, Wis.
242	5000	WWAE	Plainfield, Ill.	278	500	KWCR	Cedar Rapids, Ia.
242	500	KSO	Clarinda, Ia.	278	500	WHDI	Minneapolis, Minn.
244	1000	WAMD	Minneapolis, Minn.	278	500	WGBU	Fulford-By-The-Sea, Florida
246	500	WSOE	Milwaukee, Wis.	278	750	KFAU	Boise, Idaho
246	500	KFVW	San Diego, Calif.	278	500	KOIL	Council Bluffs, Ia.
250	500	WMBB	Chicago, Ill.	278	500	KWWG	Brownsville, Texas
250	500	WGES	Oak Park, Ill.	278	500	WCAU	Philadelphia, Pa.
250	500	KFXF	Colorado Spgs., Colo.	278	500	WNAC	Boston, Mass.
252	500	WGCP	Newark, N. J.	280.2	500	WNSM	Nashville, Tenn.
252	500	KFWB	Hollywood, Calif.	282.8	1000	WOAN	Lawrenceburg, Tenn.
252	500	KMA	Shenandoah, Iowa	282.8	500	WREO	Lansing, Mich.
254	500	KFDJ	Corvallis, Oregon	285.5	500	WKAR	E. Lansing, Mich.
254	500	WNAD	Norman, Okla.	285.5	1000	WEMC	Berrien Spgs. Mich.
256	500	KTNT	Muscatine, Iowa	285.5	500	WEAI	Ithaca, N. Y.
256	500	WCHS	Portland, Maine	286	500	WLWL	New York, N. Y.
256	1000	WRVA	Richmond, Va.	288.3	1000	KFKX	Hastings, Nebr.
258	500	WDBY	Chicago, Ill.	288.3	2000	WEOA	Columbus, Ohio
258	500	WRNY	New York, N. Y.	293.9	500	KTBI	Los Angeles, Calif.
258	500	WADC	Akron, Ohio	293.9	750	WAIU	Columbus, Ohio
261	500	WPSC	State College, Pa.	293.9	500	KSL	Slut Lake City, Utah
261	500	WMAZ	Macon, Ga.	99.8	1000	KFMQ	Fayetteville, Ark.
261	500	KFJF	Okla. City, Okla.	99.8	750	WPG	Atlantic City, N. J.
261	500	KWKH	Kenonwood, La.	299.8	500	WJJD	Mooseheart, Ill.
263	500	WHAT	Minneapolis, Minn.	302.8	1000	KTCL	Seattle, Wash.
263	500	WAAM	Newark, N. J.	305.9	1000	WJAR	Providence, R. I.
266	500	WWI	Dearborn, Mich.	309.9	500	KDKA	E. Pittsburg, Pa.
266	500	WMAK	Lockport, N. Y.	309.1	1000	WAHG	Richmond Hill, N. Y.
266	1000	WENR	Chicago, Ill.	315.6	500	KPSN	Pasadena, Calif.
266	500	KFNF	Shenandoah, Iowa	315.6	1000	KFDM	Beaumont, Texas
266	500	WGHB	Clearwater, Fla.	315.6	500	WSMB	New Orleans, La.
266	500	WBCN	Chicago, Ill.	319	500	WGR	Buffalo, N. Y.
268	500	WTAG	Worcester, Mass.	319	750	WJAZ	Mt. Prospect, Ill.
268	500	WBEW	Beloit, Wis.	322.4	1500	KOAA	Denver, Colo.
268	500	KFEQ	Oak, Nebraska	322.4	5000	WSAI	Mason, Ohio
268	500	WRAX	Gloucester City, N. J.	325.9	5000	WZB	Springfield, Mass.
269.9	500	KPRC	Houston, Texas	331.1	2000	KNTX	Northfield, Minn.
269.9	500	WNOX	Knoxville, Tenn.	336.9	500	KNX	Los Angeles, Calif.
269.9	500	KPRC	Houston, Texas	336.9	500	WCAL	Northfield, Minn.
270	500	KFBU	Laramie, Wyo.	336.9	500	WJAX	Jacksonville, Fla.
270	500	WJBL	Decatur, Ill.	336.9	1000	WACA	Hoboken, N. J.
270	1500	WGHP	Detroit, Mich.	340.7	500	WKAQ	San Juan, P. R.
270	500	WGST	Atlanta, Ga.	340.7	500	KSAC	Manhattan, Kans.
270	750	WOI	Ames, Iowa	340.7	500	KFAB	Lincoln, Nebr.
270	500	WTAW	College Station, Tex.	340.7	1000	WLS	Chicago, Ill.
270	500	KGU	Honolulu, Hawaii	344.6	500	WCBD	Zion, Ill.
270	500	WBBF	Atlanta, Ga.	344.6	5000	WMBF	Miami Beach, Fla.
270	500	WEAN	Providence, R. I.	348.4	500	WEEI	Easton, Mass.
272	500	WNJ	Newark, N. J.	348.6	500	KWSC	Fullman, Wash.
272.6	500	WEBJ	New York, N. Y.	348.6	500	KOB	State College, N. M.
272	500	KZKZ	Manila, P. I.	348.6	1000	WJAD	Waco, Texas
273	500	WRW	Tarrytown, N. Y.	352.7	500	WWJ	Detroit, Mich.
273	500	WRM	Urbana, Ill.	352.7	1500		

### CLASS "B" BROADCASTING STATIONS BY WAVE LENGTHS (Continued)

Wave Length	Power Watts	Call Letters	Location	Wave Length	Power Watts	Call Letters	Location
360	500	KZUY	Bagio, P. I.	440.9	1000	KLDS	Independence, Mo.
361.2	3000	KGO	Oakland, Calif.	440.9	500	WDWF	Cranston, R. I.
361.2	500	WHN	New York, N. Y.	440.9	1000	WMAF	Dartmouth, Mass.
365.6	500	WHB	Kansas City, Mo.	440.9	500	WOS	Jefferson City, Mo.
365.6	500	WDAF	Kansas City, Mo.	447.5	500	WQJ	Chicago, Ill.
370.2	1000	WGN	Chicago, Ill.	447.5	500	WMAQ	Chicago, Ill.
370.2	1000	WEBH	Chicago, Ill.	454.3	1000	WJZ	New York City
374.8	750	KTHS	Hot Springs, Ark.	454.3	1000	KTW	Seattle, Wash.
374.8	500	KVOO	Bristow, Okla.	454.3	1000	KFOA	Seattle, Wash.
374.8	1000	WBAL	Baltimore, Md.	461.3	500	WCAE	Pittsburg, Pa.
375	500	KZRQ	Manila, P. I.	467	3000	KFI	Los Angeles, Calif.
379.5	600	WHAZ	Troy, N. Y.	468.5	500	WCAP	Washington, D. C.
379.5	4000	WGY	Schenectady, N. Y.	468.5	1000	WRC	Washington, D. C.
384.4	500	WAAW	Omaha, Nebr.	475.9	500	WTIC	Hartford, Conn.
384.4	1000	KJR	Seattle, Wash.	475.9	1500	WBAP	Ft. Worth, Texas
389.4	750	WEAR	Cleveland, Ohio	483.6	5000	WOC	Davenport, Iowa
389	3500	WTAM	Cleveland, Ohio	483.6	500	WSUI	Iowa City, Iowa
394.5	1500	WOA1	San Antonio, Tex.	491.5	500	KGW	Portland, Oregon
394.5	500	WLIT	Philadelphia, Pa.	491.5	5000	WEAF	New York, N. Y.
394.5	500	WFI	Philadelphia, Pa.	499.7	500	WMC	Memphis, Tenn.
399.8	500	WHAS	Louisville, Ky.	499.7	500	KFRU	Columbia, Mo.
400	1500	WHT	Deerfield, Ill.	508.2	500	WIP	Philadelphia, Pa.
400	500	PWX	Havana, Cuba	508.2	500	WOO	Philadelphia, Pa.
405.2	500	WOR	Newark, N. J.	516.9	2500	WJR	Pontiac & Detroit
405.2	500	KHJ	Los Angeles, Calif.	516.5	2500	WCX	Pontiac, Mich.
405.2	1000	WJY	New York City	526	1000	WOAW	Omaha, Nebr.
416.4	5000	WCCO	St. Paul-Minneapolis	526	1000	WNYC	New York City
422.3	1000	WKRC	Cincinnati, Ohio	526	5000	WHO	Des Moines, Iowa
422.3	5000	WLW	Cincinnati, Ohio	535.4	2000	KYW	Chicago, Ill.
428.3	1000	WSB	Atlanta, Ga.	535.4	750	WHA	Madison, Wis.
428.3	1000	KPO	San Francisco, Calif.	545.1	750	KSD	St. Louis, Mo.
434.5	1000	NAA	Washington, D. C.	545.1	500	KFUO	St. Louis, Mo.
435	750	AT9	Ft. Bragg, N. C.				



**Duston's Radio Broadcast Map**  
 Class "B" Stations Only Are Shown  
 If you wish to keep a record of stations heard, use a colored pencil and fill in the circles used to designate cities.



## BROADCASTING STATIONS OUTSIDE OF THE UNITED STATES

## CANADA

CALL	STATION OWNER	LOCATION	P'wr W'ts	Wave L'ngth	Freq. Kilo.	Dis- tance	Dial 1	Dial 2	Dial 3
CFAC	Calgary Herald	Calgary	500	434.5	685				
CFCA	Star Pub. & Ptg. Co.	Toronto	500	356.9	840				
CFCF	Marconi Wireless Tel. Co. of Canada	Montreal	1650	410.7	731				
CFCH	Abitibi Power Co.	Iroquois Falls, Ont.	250	499.7	600				
CFCK	Radio Supply Co.	Edmonton, Alta.	100	516.9	820				
CFCN	W. W. Grant, Ltd.	Calgary, Alta.	1800	434.5	685				
CFCQ	Radio Specialties, Ltd.	Vancouver, B. C.	50	410.7	731				
CFCT	Deauville Station	Victoria, B. C.	500	329.5	910				
CFCU	J. V. Elliott, Ltd.	Hamilton, Ont.	500	340.7	882				
CFCY	Island Radio Co.	Charlottetown, P. E. I.	50	312.3	96				
CFDC	Western Auto Elec. Co.	Vancouver, B. C.	10	410.7	731				
CFKC	1st Congregational Church	Vancouver, B. C.	75	247.8	1210				
CFMC	Monarch Battery Co.	Kingston, Ont.	20	267.7	1120				
CFQC	Electric Shop, Ltd.	Saskatoon, Sask.	500	329.5	910				
CFRC	Queen's University	Kingston	500	267.7					
CFXC	Westminster Trust Co.	Barnaby, B. C.	50	291.1	1030				
CFYC	Commercial Radio, Ltd.	Barnaby, B. C.	500	410.7	731				
CHCS	Hamilton Spectator	Hamilton, Ont.	10	340.7	882				
CHIC	Northern Elec. Co.	Toronto, Ont.	500	356.9	840				
CHNC	Toronto Radio Research	Toronto, Ont.	500	356.9	840				
CHSC	H. V. Stonin	Unity, Sask.	250	356.9	840				
CHUC	International Bible Assoc.	Saskatoon, Sask.	500	329.5	910				
CHXC	J. R. Booth	Ottawa, Ont.	250	434.5	685				
CHYC	Northern Elec. Co.	Montreal, Que.	850	410.9	731				
CJBC	Jarvis St. Baptist Church	Toronto, Ont.	500	356.9	840				

CANADIAN, CUBAN and MEXICAN BROADCASTING STATIONS  
BY WAVE LENGTHS

Wave Length	Power Watts	Call Letters	Location	Wave Length	Power Watts	Call Letters	Location
230	50	2TW	Habana, Cuba	500	CHNC	Toronto, Ont., Can.	
235	20	2LR	Habana, Cuba	500	CJBC	Toronto, Ont., Can.	
247.8	75	CFKC	Thorold, Ont., Can.	500	CJSC	Toronto, Ont., Can.	
250	100	8BY	Santiago, Cuba	50	CJCD	Toronto, Ont., Can.	
255	15	2BB	Habana, Cuba	500	CKCL	Toronto, Ont., Can.	
260	200	6BY	Cienfuegos, Cuba	500	CKNC	Toronto, Ont., Can.	
265	10	2UF	Habana, Cuba	500	CNRT	Toronto, Ont., Can.	
267.7	500	CFRC	Kingston, Ont., Can.	250	CHSC	United, Sask., Can.	
	20	CYMC	Kingston, Ont., Can.	100	CYH	Mexico City, Mex.	
	100	CYF	Oaxaca, Mexico	375	500	CKY	Winnipeg, Man., Can.
275	500	CYB	Mexico City, Mex.	384.4	500	CNRW	Winnipeg, Man., Can.
	100	CYM	Monterey, Mexico	400	500	CYL	Mexico City, Mex.
	100	6JK	Santa Clara, Cuba	410.7	500	PWX	Habana, Cuba
280	10		Guadalajara, Mex.	1650	CFCF	Montreal, Que., Can.	
	20	2MG	Habana, Cuba	850	CHYC	Montreal, Que., Can.	
291.1	20	CFXC	New Westminster, B. C., Canada	1200	CKAC	Montreal, Que., Can.	
	100	20L	Habana, Cuba	1000	CNRM	Montreal, Que., Can.	
	500	CYA	Mexico City, Mex.	1650			
310	20	2RK	Habana, Cuba	50	CFCQ	Vancouver, B. C., Canada	
312	100	CYU	Puebla, Mexico	10	CFDC	Vancouver, B.C., Can.	
312.3	50	CYCY	Charlottetown, Prince Edw. Island, Can.	50	CFKC	Vancouver, B.C., Can.	
	500	CNRA	Moncton, N. B., Can.	500	CFYC	Vancouver, B.C., Can.	
	500	CKCK	Regina, Sask., Can.	500	CJKC	Vancouver, B.C., Can.	
	500	CNRR	Regina, Sask., Can.	1000	CKCD	Vancouver, B.C., Can.	
320	10	2CX	Habana, Cuba	425	100	CYO	Mexico City, Mex.
322	100	CYQ	Tampico, Mexico	434.5	500	CFAC	Calgary, Alberta, Can.
325	250	CZF	Chihuahua, Mexico	750	CFCN	Calgary, Alberta, Can.	
	500	CYX	Mexico City, Mex.	750	CNRC	Calgary, Alberta, Can.	
329.5	5000	CKCW	Burlington Junction, Ontario, Can.	250	CHXC	Ottawa, Ont., Can.	
	500	CJGC	London, Ont., Can.	100	CKCO	Ottawa, Ont., Can.	
	500	CHUC	Saskatoon, Sask., Can.	500	CNRO	Ottawa, Ont., Can.	
	250	CJWC	Saskatoon, Sask., Can.	475	250	CYR	Mazatlan, Mexico
	500	CFQC	Saskatoon, Sask., Can.	490	1000	FAM	Guadalajara, Mex.
	500	CNRS	Saskatoon, Sask., Can.	499.7	250	CFCH	Iroquois Falls, Ont. Canada
	500	CFCT	Victoria, B. C., Can.	516.9	100	CFCK	Edmonton, Alberta, Canada
340	100	6KW	Santa Clara, Cuba		500	CJCA	Edmonton, Alberta, Canada
340.7	10	CHCS	Hamilton, Ont., Can.		500	CNRE	Edmonton, Alberta, Canada
	500	CFCU	Hamilton, Ont., Can.				
	50	CKOC	Hamilton, Ont., Can.				
350	500	CZE	Mexico City, Mex.	548	100	CYY	Yucatan, Mexico
355	400	2EP	Habana, Cuba		10		
	500	CHIC	Toronto, Ont., Can.		100		

## BROADCASTING STATIONS

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## CANADA—Continued

CALL	STATION OWNER	LOCATION	P <sup>wr</sup> W <sup>ts</sup>	Wave L <sup>ngth</sup>	Freq. Kilo.	Dis- tance	Dial 1	Dial 2	Dial 3
CJCA	Edmonton Journal	Edmonton, Alta.	500	516.9	820				
CJCD	T. Eaton Co., Ltd.	Toronto, Ont.	50	356.9	840				
CJGC	London Free Press	London, Ont.	500	329.5	910				
CJKC	Pyramid Temple Society	Burnaby, B. C.	500	410.7	731				
CJSC	Evening Telegram	Toronto, Ont.	500	356.9	840				
CJWC	Wheaton Elec. Co.	Saskatoon, Sask.	250	329.5	910				
CJYC	DeForest Radio Corp.	Toronto, Ont.	500	291.1	1030				
CKAC	La Presse, Ltd.	Montreal, Que.	1200	410.7	731				
CKCD	Vancouver Daily Province	Vancouver, B. C.	1000	410.7	731				
CKCK	Leader Pub. Co., Ltd.	Regina, Sask.	500	312.3	961				
CKCL	Dominion Battery Co.	Toronto, Ont.	500	356.9	840				
CKCO	Dr. G. M. Geldert	Ottawa, Ont.	100	434.5	685				
CKCW	Canadian Broadcasting Corporation	Burlington Junct., Ont.	5000	329.5	910				
CKFC	First Congreg. Church	Vancouver, B. C.	50	410.7	731				
CKNC	Canadian Nat. Carbon Co.	Toronto, Ont.	500	356.9	840				
CKY	Manitoba Tel. System	Winnipeg, Man.	500	384.4	780				
CKOC	Wentworth Radio Sup. Co.	Hamilton, Ont.	50	340.7	882				
CNRA	Canadian Nat. Ry's.	Moncton, N. B.	500	291.1	1030				
CNRC	Canadian Nat'l. Railways	Calgary, Alta.	1000	430	700				
CNRE	Canadian Nat'l. Railways	Edmonton, Alta.	500	516.9	820				
CNRS	Canadian Nat'l. Railways	Saskatoon, Sask.	500	329.5	910				
CNRV	Canadian Nat'l. Railways	Vancouver, B. C.	500	291.1	1030				
CNRW	Canadian Nat'l. Railways	Winnipeg, Man.	500	384.4	780				
CNRT	Canadian Nat'l. Railways	Toronto, Ont.	500	357	840				
CNRR	Canadian Nat'l. Railways	Regina, Sask.	500	435	690				
CNRO	Canadian Nat'l. Railwaks	Ottawa, Ont.	500	435	690				
CNRM	Canadian Nat'l. Railways	Montreal, Que.	1000	410	731				

## AUSTRALIA

CALL	STATION OWNER	LOCATION	P <sup>wr</sup> W'ts	Wave L'ngth	Freq. Kilo.	Dis- tance	Dial 1	Dial 2	Dial 3
2BL	Broadcasters, Ltd.	Sydney	5000	350	854				
2FC	Farmers & Co., Ltd.	Sydney	5000	1100	272				
3AR	Asso. Radio Co. of Aust.	Melbourne	1600	480	625				
3LO	Broadcasting Co. of Aust.	Melbourne	5000	1720	174				
6AR	Associated Radio Co.	Perth	1600	360	833				
5CL	Central Broadcasters	Adelaide	5000	395	961				
6WF	Westralian Farms, Ltd.	Perth	5000	1250	240				

## ENGLAND

2BD	Aberdeen Steam Laundry	Aberdeen	1100	495	607				
6BM	British Broadcasting Co.	Bournemouth	1100	385	780				
5IT	British Broadcasting Co.	Birmingham	1000	475	632				
2LO	British Broadcasting Co.	London	1500	395	761				
5NO	British Broadcasting Co.	Newcastle	1100	400	750				
5WA	British Broadcasting Co.	Cardiff	1100	351	854				
2ZY	British Broadcasting Co.	Manchester	1000	375	800				
2LS	British Broadcasting Co.	Leeds	.....	346	869				
2LS	British Broadcasting Co.	Bradford	.....	310	967				
6LV	British Broadcasting Co.	Liverpool	.....	315	955				
6FL	British Broadcasting Co.	Sheffield	.....	301	1000				
5PY	British Broadcasting Co.	Plymouth	200	335	897				

## IRELAND

2BE	Belfast University	Belfast	.....	435	690				
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## SCOTLAND

5SC	British Broadcasting Co.	Glasgow	1100	420	714				
2EH	British Broadcasting Co.	Edinburgh	.....	328	915				

## CONTINENTAL EUROPE

## AUSTRIA

OHW	Radio-Hekaphon	Vienna	1500	600	500				
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## BELGIUM

SRB	Radio Belgique	Brussels	2000	410	731.3				
	Radio Electrique	Brussels	.....	265	1131				

## CONTINENTAL EUROPE—Continued

## FRANCE

CALL	STATION OWNER	LOCATION	P'wr W'ts	Wave L'ngth	Freq. Kilo.	Dis- tance	Dial 1	Dial 2	Dial 3
YN	French Government	Lyons	.....	480	625				
	Societe Lyonnaise de Rad	Lyons	2000	470	637.9				
	Government	Nice	651	.....	460				
	La Petit Parisienne	Paris	500	340	882				
	Superior School	Paris	480	450	666				

## GERMANY

	Telefunken	Berlin	1032	.....	290				
	Vox Haus	Berlin	1500	415	723				
	S.W. Deutsche Rundfunk	Frankfort	.....	460	651				
	Nordischer Rundfunk AG	Hamburg	.....	392	765				
	Ostmarken Rundfunk	Konigsburg	.....	460	651				
	Mitteldeutsche Rundfunk	Leipsig	.....	436	687				
		Munster	.....	470	732				
	Suddeutsche Rundfunk	Stuttgart	.....	437	684				

## ITALY

HYN	Ing. Ranier	Rome	.....	450	666				
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## PORTUGAL

	Aero Lisboa	Lisbon	.....	370	810 to 400 to				
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## SPAIN

PTT		Madrid	.....	400	750				
	Radio Iberica	Madrid	.....	392	765				

## SWEDEN

	Nya Varvet	Gothenburg	.....	700	428				
	Royal Tele Radio Off	Stockholm	.....	440	661				
	Svenska Radioactiebolaget	Stockholm	.....	470	638				

## SWITZERLAND

	Zurich University	Zurich	.....	500	600				
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## HAWAII

CALL	STATION OWNER	LOCATION	P'wr W'ts	Wave L'ngth	Freq. Kilo.	Dis- tance	Dial 1	Dial 2	Dial 3
KGU	Marion K. A. Mulrony	Honolulu	833	250	360				
KYQ	Electric Shop	Honolulu	1110	100	270				

## PORTO RICO

WKAQ	Radio Corp. of Porto Rico	San Juan	833	500	360				
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## CUBA

6 BY	Jose Ganduve	Cientuegos	200	260	1153				
8 BY	Alberto Ravello	Santiago	100	250	1200				
2 EP	El Pais	Habana	400	355	844.6				
6 KW	F. H. Jones	Santa Clara	100	340	881.8				
2 LR	Jose Lara	Habanna	50	235	1276				
2 OL	O. Collado	Habana	100	300	999.4				
PWX	Cuban Tel. Co.	Habana	500	400	749.6				

## MEXICO

CYA	E. R. Gomez	Mexico City	500	300	999.4				
CYB	El Buen Tono	Mexico City	500	275	1090				
CYF	Federico Zonilla	Oaxaco	100	265	1131				
CYH	High Life	Mexico City	100	375	799.5				
CYL	Radul Azcaragga	Mexico City	500	400	749.6				
CYM	R. Reyes	Monterey	100	275	1090				
CYO	M. Zetina	Mexico City	100	425	705.5				
CYR	C. Llamas	Mazatlan	250	475	631.2				
CYQ	C. Sagaon	Tampico	100	322	931.1				
CYU	A. del. P. Zaenez	Puebla	100	312	961				
CYX	El. Excelsior	Mexico City	500	325	922.5				
CYY	Socialistic Party	Yucatan	100	548	547.1				
CZE	Dept. of Education	Mexico City	500	350	856.6				
CZF	Telephone Co.	Chihuahua	250	325	922.5				
FAM	Fed. Mil. Co.	Guadala Sara	1000	490	611.9				

## SOUTH AMERICA

## ARGENTINA

CALL	STATION OWNER	LOCATION	P'wr W'ts	Wave L'ngth	Freq. Kilo.	Dis- tance	Dial 1	Dial 2	Dial 3
LOR	Radio Argentina	Buenos Aires	500	410	731.3				
LOW	Grand Splendid Theatre	Buenos Aires	1500	300	1000				
LOY	Radio Nacional	Buenos Aires	931	1000	300				
LOV	F. Brusa	Buenos Aires	1000	350	854				
LOX	Radio Cultura	Buenos Aires	860	375	800				
TCR	Franciseo Brusa	Buenos Aires	100	300	1000				
B-1	Francisco Brusa	Buenos Aires							

## BRAZIL

SPE	Dept. National Telegraph	Rio de Janeiro	500	250	1200				
	Radio Sociedade	Rio de Janeiro	6000						

# PROGRAMME DIRECTORY

## KDKA—Pittsburgh, Pa.

Mon., Wed., Fri., Sat., 6:15-9:55 p. m.; Tues., Thurs., 6:15 p. m.-12:30 a. m.; Sun. 4-8:45 p. m. Eastern standard time.

## KFAB—Lincoln, Neb.

Sun., 4-5 p. m.; daily ex. Sun., Thur., 9:30-11 a. m., 1:15-6:30 p. m., 8:10-10:30 p. m.; Thur., 9:30-9:55 a. m., 3-3:30 p. m. Central standard time.

## KFI—Los Angeles, Cal.

Mon., Wed., Fri., 10:45-11:05 a. m., 7-11 p. m.; Tues., Thur., Sat., 7-11 p. m.; Sat., 11 p. m.-3 a. m.; Sun., 10-10:45 a. m., 4-5 p. m., 6:30-11 p. m. Pacific standard time.

## KFKX—Hastings, Nebr.

Daily ex. Sun., Sat., 9:30 a. m., 10:30 a. m., 12:30 p. m., 3 p. m., 7 p. m., markets; Mon., Wed., Fri., 7-11 p. m., musical program; Sat. markets at 9:30, 10:30 a. m., 12:30 p. m. only; relay of KDKA "dinner program," 5:15-7 p. m. each week day. Central standard time.

## KFOA—Seattle, Wash.

Daily ex. Sat., Sun., 10 a. m.; Mon., Wed., 10 a. m.-10 p. m.; Tues., Fri., 10 a. m.-11:30 p. m.; Thur., 10-5:30 p. m.; Sat., 4-11:30 p. m. Pacific standard time.

## KGO—Oakland, Cal.

Daily ex. Sun., 11:30 a. m., luncheon concert program; Mon., 10:40 a. m., 3 p. m., 5:30-6 p. m., 8-10 p. m.; daily ex. Sat., Sun., 1:30 p. m., weather reports; Tues., Wed., Thur., Fri., Sat., 4-5:30 p. m.; Mon., Wed., Fri., 3 p. m.; Tues., Thur., Sat., 8-10 p. m.; Fri., 5:30-6 p. m.; Sun., 11 a. m., services; 3:30-5 p. m., musical; 7:45 p. m., services. Pacific standard time.

## KJR—Seattle, Wash.

Daily ex. Sat., Sun., 10:30-11:30 a. m.; daily ex. Sun., 1-3 p. m., 5-6 p. m., 7-10 p. m., 10-12 p. m., musical program; Sun., 11 a. m., church service; 5 p. m., concert; 7:15 p. m., church service; 9-10:30 p. m., concert. Pacific standard time.

## KOA—Denver, Colo.

Daily ex. Sun., 11:45 a. m., weather and news reports; 12:15 noon, luncheon musical; 3:15 p. m., relaxing exercises; daily ex. Sat., Sun., 6 p. m., news and markets; 6:30 p. m., dinner concerts; Tues., Thur., Fri., 3:30, 4, 4:14 p. m.; Mon., Wed., Fri., 7:30, 8 p. m.; Wed., Sat., 10 p. m., dance music; Sun., 11 a. m.; 7:45 p. m., church services; 4 p. m., musical hour. Mountain standard time.

## KOB—New Mexico, N. M.

Daily 11:55 a. m.-12 p. m., time signals; 9:55-10 p. m., time signals; 12 noon, weather reports; Mon., Fri., 7:30-8:30 p. m., concerts, lectures. Mountain time.

## KPO—San Francisco, Cal.

Daily ex. Sun., 7-8:15 a. m., health drill; 8-11 p. m., music; daily ex. Fri., Sun., 2:30-3:30 p. m., matinee; daily ex. Sat., Sun., 5:15-6:15 p. m., "Big Brother"; daily, 10:30 a. m., 6:30 p. m., weather forecast and "Ye Towne Crier," etc.; Sun., 9:45-10:45 a. m., church service; 5-10 p. m., musical. Pacific standard time.

## KPSN—Pasadena, Cal.

Tues., Thurs., Sat., 8-9:30 p. m., studio concert; Sat., 9:30-10:30 p. m., dance orchestra; Sun., 9:30-10:30 a. m., 6-7 p. m., church services; 8:45-9:45 p. m., hotel concert. Pacific standard time.

## KSL—Salt Lake City, Utah.

Daily ex. Sun., 2 p. m.-12 p. m.; Fri., 10 a. m.-12 p. m.; Sun., 2-10 p. m., classical and religious program. Mountain standard time.

## KTAB—Oakland, Cal.

Daily ex. Sun., 9:30 a. m., prayer service; Mon., Tues., Thurs., Fri., 8-10 p. m., studio program; Sun., 9:45-12 noon; 7:45-9 p. m., church services; 9:30-11 p. m., concert. Pacific time.

**KTCL—Seattle, Wash.**

Daily ex. Sat., Sun., 9:30-10:30 a. m.; Mon., 7-9 p. m., musical; Tues., Thurs., 12:30-1:30 p. m., concert; Tues., 8-9 p. m.; Wed., 7:30-9:30 p. m., musical; Fri., 8-10 p. m., musical; Sat., no definite hours; Sun., 1-2 p. m., 3-4 p. m., 7:50-9:10-10:10 p. m. Pacific standard time.

**KYW—Chicago, Ill.**

Daily every half hour ex. from 2 a. m.-8 a. m., news reports, music and readings. Central standard time.

**NAA—Arlington, Va.**

Daily 10:05 a. m., 3:45 p. m., 10:05 p. m., Tues., 7:30 p. m. Eastern standard time.

**WBAP—Fort Worth, Texas.**

Daily ex. Sat., Sun., 6 p. m., orchestra; 7:30 p. m., classical, varied, Hawaiian; 9:30 p. m., popular, classical, orchestral and varied; Mon., Wed., Fri., 11 p. m., popular music; Sat., 7:30 p. m., Sunday school class; Sun., 11 a. m., church; 12:30 p. m., kiddie's hour; 5 p. m., sacred; 11 p. m., popular. Central standard time.

**WBMM—Chicago, Ill.**

Mon., 4-7 p. m.; Tues., Wed., Thurs., Fri., 4-6 p. m., 7-12 p. m.; Sat., 4-6 p. m., 8 p. m.-2 a. m.; Sun., 12:30-2 p. m. Central standard time.

**WBZ—E. Springfield, Mass.**

Daily ex. Sun., 6:30-10:30 p. m., (Thurs. 11 p. m.); Sun., 10:50 a. m., 7 p. m., 8 p. m. Eastern standard time.

**WCBD—Zion, Ill.**

Tues., Thurs., 8-10:30 p. m., concert; Wed., 12:30-1 p. m., organ concert; Thurs., 2:30-3:45 p. m., sacred music and address; Sun., 9-10:45 a. m., Bible school; 2:30-6 p. m., service. Central standard time.

**WCCO—Minneapolis, Minn.**

Daily ex. Fri., Sun., 9:30 a. m., 9:35 a. m., 9:45 a. m., 10:30 a. m., 11:30 a. m., 12 noon, 1:30 p. m., 2 p. m., news, markets, weather, noon concert and woman's hour; Mon., 2:30-

10 p. m.; Tues., 3-10 p. m.; Wed., 2:30-11:30 p. m.; Thurs., 3-10:05 p. m.; Fri., Sat., 6:15-10:05 p. m.; Sat., 2:30 p. m.; Sun., 10:50 a. m., 1:45-9:15 p. m. Central standard time.

**WCX—Detroit, Mich.**

Daily ex. Sun., 4-4:30 p. m., 6-7 p. m.; Mon., Wed., Thurs., 8-9 p. m.; Tues., 10 p. m.-2 a. m.; Fri., 9-10 p. m., 10-11 p. m.; Sun., 10:15 a. m., church services; 3-4 p. m., organ recital. Eastern standard time.

**WEAF—New York, N. Y.**

Daily ex. Sun., 6:45-7:45 a. m., 6 p. m.-12 midnight; daily ex. Sun., 4-5 p. m.; Mon., Wed., Fri., 10:45 a. m.-12 noon; Tues., Thurs., 11 a. m.-12 noon; 7:20-10:15 p. m. Eastern standard time.

**WEBH—Chicago, Ill.**

Daily ex. Sun., Mon., 7-8 p. m., 9-10 p. m., 11 p. m.-1 a. m. (Sat., 11 p. m.-2 a. m.); Sun., 10:40 a. m.-12 noon, church services; 5-6 p. m., 7-9 p. m., musical program. Central standard time.

**WENR—Chicago, Ill.**

Daily ex. Sun., Mon., 6-7 p. m., dinner concert; 8-10 p. m., musical; Wed., Fri., Sat., 12 midnight-2 a. m., popular music; Sun., 2-4 p. m. classical; 9:30-11:30 p. m. popular music. Central standard time.

**WGHP—Detroit, Mich.**

Mon., Tues., Wed., 8-10 p. m., musical; Thurs., 10-12 p. m., the Midnight Mariners aboard the Skylark; Fri., 10-12 p. m., popular program.

**WGN—Chicago, Ill.**

Daily ex. Sun., 11:57 a. m., 12:30-3:30 p. m., 5:30-5:57 p. m., 6-7:30 p. m., 8:30-11:30 p. m.; Tues., Thurs., 12:30 p. m., farm talks; Sun., 12-1 p. m., 1-5 p. m., 9-10 p. m. Central standard time.

**WGY—Schenectady, N. Y.**

Daily ex. Sun., 11:55 a. m., 12:30 p. m., 12:45 p. m., 12:40 p. m., 6 p. m., 6:10 p. m., 6:15 p. m.; Mon., Tues., Thurs., Fri., 2 p. m.; Tues., Thurs., 2:30 p. m.; Mon., Tues., Thurs., 6:30-7 p. m.



**WHAZ—Troy, N. Y.**

Mon., 9-11:30 p. m.; second Mon. of each month, a special transcontinental and transatlantic test program from 12 midnight-1:30 a. m. Tues. Eastern standard time.

**WHK—Cleveland, O.**

Daily ex. Sun., 6:30-7:30 p. m.; Sun., 10:30 a. m.; Sun., 10:30 a. m., church; 6:15-7:15 p. m., 7:15-9 p. m., church, 9-9:30 p. m. Eastern standard time.

**WHO—Des Moines, Ill.**

Daily ex. Sun. 7-8 a. m., 9-10:30 a. m., 11:30 a. m.-12:30 p. m., 2-4 p. m., 7:30-9 p. m., 11 p. m. midnight, musical programs. Central standard time.

**WHT—Chicago, Ill.**

Sun., 12 noon-3:45 p. m., 5:30-11:30 p. m.; daily ex. Sun., 10 a. m.-2 p. m., 6-7:30 p. m.; daily ex. Sun., Mon., 7:45 p. m.-1 a. m. Central standard time.

**WIBO—Chicago, Ill.**

Daily 2-4 p. m.; daily ex. Mon., 6-8 p. m., music; Wed., 10 p. m.-12 midnight; Fri., 10 p. m.-12 midnight; Tues., Thurs., 12 p. m.-3 a. m., midnight jamboree; Sun. 10-12 p. m., musical. Central standard time.

**WJJD—Mooseheart, Ill.**

Daily ex. Mon., Sun., 4, 6, 8, 10 p. m., 12 midnight, musical and talks; Sun., 7:45 a. m., Catholic church; 9:40 a. m., Protestant church; 3 p. m., musical. Central standard time.

**WJR—Detroit, Mich.**

Daily ex. Sun., 7-8 p. m., 9-10 p. m.; Mon., Wed., Sat., 11:30 p. m.-1 a. m.; Thurs, Sat., 10-11 p. m. Eastern standard time.

**WJY—New York, N. Y.**

Tues., Thurs., Fri., 7:30-11:30 p. m.; Sun., 8:15-10:30 p. m. Eastern standard time.

**WJZ—New York, N. Y.**

Daily ex. Sun., 10 a. m.-11:30 p. m., miscellaneous program; Sun., 9

a. m.-10:30 p. m., children's hour, church services and classical music. Eastern standard time.

**WKAR—Lansing, Mich.**

Daily ex. Sat., Sun., 7:15-8 p. m., Radio school, farm lectures; Mon., Wed., 8-9 p. m., dance program; Fri., 8-9 p. m., educational program by state government department. Weather reports broadcasted at noon each day ex. Sun. Eastern standard time.

**WKRC—Cincinnati, O.**

Sun., 6:45-7:30 p. m., religious, 10-12 p. m., musical; Mon., Wed., 6-7, dance music; 8-10 p. m., 12 midnight frolic; Tues., Thurs., Sat., 10-12 p. m., dance and classical music. Central standard time.

**WLIB—Chicago, Ill.**

Daily ex. Sun., Mon., 7-8 p. m., 9-10 p. m., 11-12 p. m.; Sun., 4-5 p. m. Central standard time.

**WLS—Chicago, Ill.**

Daily ex. Sun., 9 a. m., 11 a. m., 12 p. m., 2 p. m., weather, markets; Mon., 6-7 p. m., dinner hour program; Tues., Thurs., 6:15-7:55 p. m., musical entertainment. Wed., Fri., 6:15-11 p. m., entertainment; Sat., 7-12 p. m.; Sun., 6-7:55 p. m. Central standard time.

**WLW—Cincinnati, O.**

Daily ex. Sat., Sun., 7:30 a. m., health exercises; 8 a. m., morning worship, auspices of Y. M. C. A.; Mon., 10:45 a. m.-12:15 p. m.; Fri., 10:45 a. m.-1:30 p. m.; Wed., 10:45 a. m.-12 p. m.; Thurs., 10:45-12:15 p. m.; Fri., 10:45 a. m.-1:30 p. m., silent night; Sat., 10:45 a. m.-10:30 p. m.; Sun., 9:30 a. m., S. S.; 10:45 a. m., weather, markets; 11 a. m.; 7:30 p. m., church services; 3 p. m., organ music; 8:30 p. m., concert. Central standard time.

**WLWL—New York, N. Y.**

Mon., Thurs., 9 p. m., music talks and songs; Tues., Fri., 11 a. m., shopping talks; Sun., 8 p. m., Paulist choristers, sermon, benediction. Eastern standard time.

**WMAF—So. Dartmouth, Mass.**

Eastern standard time.

**WNYC—New York, N. Y.**

Daily ex. Sun., 6-11 p. m.; Mon., Wed., Fri., 11 a. m.-12:30 p. m.; Sun., irregular.

**WOAI—San Antonio, Tex.**

Mon., Wed., Fri., 3 p. m., musical concert; Tues., Wed., Fri., 8:30-9:30 p. m., Sun., 7:45-8:45 p. m. Central standard time.

**WOAW—Omaha, Neb.**

Mon., Tues., Thurs., Fri., 6-7:30 p. m., dinner hour program, orchestra, miscellaneous music; 9-11 p. m., deluxe programs, musical features; daily ex. Sun., 8:15, 8:55, 10:30 a. m., 12:30, 1:45, 4 p. m., market report; Sat., regular programs till 7:30 p. m.; additional programs under the Omaha Chamber of Commerce; Sun., 9 a. m., 6, 8 p. m., religious services. Central standard time.

**WOC—Davenport, Ia.**

Mon., silent after 6 p. m.; Tues., 7:30-9 p. m., 9-10 p. m., musical; Wed., 9-10 p. m., musical; Thurs., 7-10 p. m., 11-12 p. m., dance orchestra; Fri., 8-9 p. m., musical; 11-12 p. m., dance orchestra. Central standard time.

**WOK—Chicago, Ill.**

Daily ex. Sun., Mon., 10 p. m.-1 a. m.; Fri., 5-7 p. m., Capitol Theatre organ; Sun., 6:30-8:30 p. m. Central standard time.

**WOQ—Kansas City, Mo.**

Tues., 8-9:30 p. m., devotional musical program; Thurs., 7-8 p. m., educational; 8-10 p. m., musical; Sat., 8-10 p. m., classical music; 10-11 p. m., special radio healing service; Sun., 11 a. m.-12:30 p. m., morning service; 7-9:30 p. m., evening service. Central standard time.

**WORD—Chicago, Ill.**

Tues., Wed., Fri., 7-8 p. m., 9-10 p. m., 11-12 p. m.; Thurs., Sat., 8-10 p. m.; Sun., 10-11 a. m., 7-8 p. m., 9-10:30 p. m. Central standard time.

**WRC—Washington, D. C.**

Mon., Wed., Fri., 10 a. m.-6:30 p. m.; Tues., 10 p. m.-1 a. m.; Thurs., 10 a. m.-12:30 a. m.; Sat., 12 noon-1 a. m. Eastern standard time.

**WRVA—Richmond, Va.**

Mon., Wed., Fri., 8:15-11 p. m. Eastern standard time.

**WSAI—Cincinnati, O.**

Mon., 8-12:30 p. m.; Tues., 5:30-10 p. m., 12-12:30 p. m.; Wed., 7:30-12 p. m.; Thurs., 6:30-10 p. m.; Sat., 7-10 p. m., 12 p. m.-1:30 a. m.; Sun., 8-4:30 p. m., 7:45-10:15 p. m. Central standard time.

**WSB—Atlanta, Ga.**

Daily ex. Sun., 12-1 p. m., music. weather; 2:30 p. m., reports; 5 p. m., 8-9 p. m. (ex. Wed.), 10:45-12 p. m., concerts; Sun., 5-6 p. m., 7:30-9:15 p. m., church services. Central standard time.

**WSM—Nashville, Tenn.**

Mon., Wed., Fri., Sat., 6:30 p. m., dinner music; 7 p. m., community program; Mon., Wed., Sat., 10 p. m., studio concert; Sun., 10:30 a. m. 7:30 p. m., church services. Central standard time.

**WTAM—Cleveland, Ohio.**

Daily ex. Sun., 12:15-1:30 p. m., 6-7 p. m.; Mon., Wed., Sat., 8-12 p. m., 6-7 p. m.; Mon., Wed., Sat., 8-12 p. m., 6-7 p. m. Eastern standard time.

**WWAE—Plainfield, Ill.**

Daily ex. Sun., 12:30-1:30 p. m., 9-12 midnight; Sun., 10:30-12:15 a. m., church; 3:30-4:30 p. m., musical. Central standard time.

**WWJ—Detroit, Mich.**

Sun., 10:30 a. m., church services; 2 p. m., orchestra concert; 7:20-10:15 p. m., varied musical program; Mon., Wed., Fri., 7:30-8:30 a. m., setting-up exercises; daily ex. Sun., Sat., 9:30 a. m., dinner menu; 10:25 a. m., weather; 11:55 a. m., time signals; 12 noon, concert; 3 p. m., concert; 6 p. m., dinner concert; 8-11 p. m., varied musical program. Eastern standard time.

# CARE AND OPERATION

## of RADIO RECEIVERS

### and ACCESSORIES

#### Testing and Care of "A" Battery:

**"A" Chargeable Storage Batteries**—If a new storage battery has been purchased, and is given proper care, it should give many years of successful radio service. Many times radio fans have used an old car battery for their radio set.

If the battery was in poor condition before starting its radio service, reception will not be as satisfactory as it should be. This does not mean that a car battery cannot be used for radio work. A second hand car battery in good condition will sometimes give months of good radio service.

#### Some Things To do and Not to Do to Your Radio Battery.

1. **Keep the battery charged.** Test with a hydrometer and have it recharged when the reading is under 1150. Never leave battery standing in an uncharged condition for a long period of time. If battery is not going to be used for some time, give a good over-charge and disconnect all wires. Or take battery to a service station and have them take care of it until you again wish to use it. The liquid in a discharged battery will freeze in extremely cold weather.
2. **Keep the plates covered with liquid.** Add distilled water only, unless some of the acid has become spilled or the battery has been leaking. Then electrolyte, as originally used, should be added.
3. **Keep battery clean and terminals free from corrosion.** All battery terminals should be scraped clean and the wires securely fastened to the battery by means of a battery clip or terminal posts. If the terminal post or clips are then covered with vaseline, corrosion will not occur.
4. **Connect the battery to set and to the battery charger in the right manner.** Always be sure that the positive terminal of the battery is connected to the binding post marked positive or (+) on the set and the negative(—) of the "A" Battery to the (—) terminal on the set. On some battery chargers, either wire can be connected to the positive terminal but if they are marked, they should be connected to the right post. The red wire of the

battery charger is always the positive side. If the terminal on the battery is not marked in any way, you can find the polarity in the following manner: Fill a water glass two-thirds full of of strong solution of salt water and hold the two wires connected to the "A" battery about one half inch apart in this solution. The wire around which bubbles rise freely will be a negative lead.

5. **Don't lay tools or any other metal parts across terminals of the battery.** If metal is placed across the terminals of the battery, a heavy load is thrown on the plates and they will become buckled or warped.
6. **Keep all lighted matches or flames away from the vent holes of the storage battery.** Hydrogen gas is present around the top of the battery when it is being charged or discharged, and the battery is apt to explode if coming in contact with a flame.
7. Don't try to use one and a half volt tube, such as W. D. No. 11 and W. D. No. 12 with a six volt storage battery, unless you use only one cell of the battery and keep rheostat turned down low.
8. **Don't charge battery at too high a rate.** Generally ten amperes is the highest that a radio battery will stand, but ordinarily only a five to six ampere rate is used.
9. **Don't overcharge battery too often.** Sometimes a battery will need a good overcharge especially if the plates have become sulphated and the battery will not hold a charge. When you are giving the battery this overcharge, leave it connected to the battery charger from ten to twelve hours after the hydrometer shows the battery to be full.
10. **Don't get battery solution on drapes or rugs.** The acid in a battery will burn holes in any cloth with which it comes in contact. Many male radio fans have come near losing their "happy home" because the radio battery ruined a rug for the "Missus."

## DRY "A" BATTERIES

Some radio tubes draw such a small amount of current that they can be run economically when using dry cells as an "A" battery. Tubes in the class with the W. D. 11 or 12 and the U. V. 199 and C. 299 are known as dry cell tubes.

Sometimes dry cell batteries are used to light the filament of tubes drawing one quarter of ampere at five volts such as the U. V. 201 "A" type bulb. This is an expensive and unsatisfactory practice and should not be done except on rare occasions when the set owner wishes to use a set for a short period of time and a storage battery is not available.

Positions of the dry cells make very little difference, so that in portable sets they may be placed either in a horizontal or vertical position. Use an ammeter to test dry cells. When they are new and fully charged, most dry cells test thirty-five amperes and they should be discarded when testing under ten amperes.

### TESTING AND CARE OF "B" BATTERIES.

**Dry "B" Batteries**—Are generally sold in blocks of  $22\frac{1}{2}$  or 45 volts.

In all well made batteries, the large size will last longer than the smaller ones when a heavy load is used. The shelf life of a battery is not very long, however, and so if only one or two tubes are used, and these infrequently, it is just as well to use a smaller size "B" battery. Small size batteries are also best when the radio fan wishes to build a portable radio set. When all of the batteries are placed inside of the cabinet, they should be both small and light.

Never test a "B" battery by placing a screw-driver or other piece of metal across the terminals to see if you get a spark. This will discharge the battery much more than many hours of service. When you wish to test the "B" battery, provide yourself with a good battery volt meter made for this purpose, and then be sure not to leave it connected across the battery for any length of time; just touch it on the terminals long enough to get a good reading.

### CHARGEABLE "B" BATTERIES.

Most chargeable "B" batteries are similar in construction to the chargeable "A" batteries, except the cells are smaller and many more cells are necessary. All chargeable "B" batteries, except the Edison type, use the same kind of liquid and the same care much be given to them as is given the "A" battery. The battery must be kept charged, plates covered with liquid, and pure distilled water added to take care of evaporation.

Most battery chargers on the market will charge both "A" and "B" batteries. If you do not have a battery charger of this kind and wish to charge your "B" battery from an alternating current line, a very cheap electrolytic battery charger may be purchased which will take care of "B" batteries only. These chargers will not charge an "A" battery due to the fact that the charging rate is only one-quarter to one-half of an ampere, and it would take several days and sometimes weeks to properly charge a large battery.

When 110 volt direct current is available, the battery charger is unnecessary, and the "B" battery can be charged by connecting direct to the line, using a 25 watt lamp in series with the positive lead. The negative side of the 110 volt line must be connected to the negative side of the battery. If unable to tell the polarity of the electric line, use the test such as described under "A" batteries.

### "C" BATTERIES.

When using very high plate voltage on the amplifier bulbs, it is sometimes best to use a "C" battery in the grid return. A "C" battery is not generally added, unless 90 volts or over of "B" battery is used. When a high voltage is used on the plates, the "C" battery will oftentimes cut down the amount of "B" battery current being consumed without in any way decreasing the amplification. "C" battery will many times clean up a noisy signal. The table shown under "Tubes" gives the proper "C" battery voltage for the various bulbs.

### CARE AND OPERATION OF RADIO TUBES

The tube is the heart of the radio set, so care must be taken to keep them working at their highest efficiency as well as to keep them from burning out.

All tubes should be burned as dimly as is possible and still receive the desired results.

When they are turned down low, the life of the tube will be prolonged and reception will generally be better. Tubes of the U. V. No. 199 type and 201-A type use a new type of filament having a thorium oxide coating and the electron omission will stop if the filament is heated too hot or too high a plate voltage is applied.

Sometimes the tube can be brought back to normal by lighting up the filament with the plate battery disconnected. Plate voltage on the detector should always be figured from the negative end of the "B" battery. In either the detector or amplifier the plate voltage is too high when a blue glow is present in the tube. The proper rheostat for the different tubes are as follows:

For 1—W. D. No. 11 or W. D. 12, use 6 ohm rheostat

For 1—U. V. 200 or C-200, use 6 ohm rheostat

For 2—or more of either of the above tubes, a 4 to 6 ohm rheostat should be used.

For 1—U. V. 201-A  $\frac{1}{4}$  amp tube, use 20 ohm rheostat, and when two of these tubes are used, on the same rheostat, a 10 ohm rheostat unit will be about right. If using more than two bulbs on one rheostat, use either a 10 or 6 ohm.

For U. V. No. 199 and C-199, use 30 ohm rheostat for a  $4\frac{1}{2}$  volt dry cell "A" battery. If a 6 volt storage battery is used to light No. 199 bulbs, care must be taken not to burn these too bright.

Keep prongs on the bottom of the tube clean. Always see that these prongs make good contact with the spring of the socket. If good contact is not had, many times the radio set will be noisy.

Try switching tubes around to increase efficiency of the set. Radio tubes are not all uniform, and many times certain tubes will work well as radio frequency amplifiers, but not so well as a detector or audio frequency amplifier. A soft amplifier tube also makes a wonderful detector. Always try changing or varying the voltage of the "B" battery connected to the detector tube. On the regular 200 detector bulb, this varies from 18 to 22½ volts, and when a 201-A type tube is used for detector, plate voltage as high as 45 volts can sometimes be used.

**Plate "B" Battery consumption of various tubes when used for audio amplification and using 90 volts of "B" Battery.**

TYPE OF TUBE	PLATE CURRENT
W. D. No. 11 or W. D. No. 12	4.5 Miliamperes
(When used with 4½ volt "C" Battery,)	2.5 Miliamperes
U V No. 199 Type Bulb	4.0 Miliamperes
(When used with 4½ volt "C" Battery,	2.2 Miliamperes
U V No. 201-A Type Bulb	6.0 Miliamperes
(When used with 4½ volt "C" Battery,	2.0 Miliamperes

These are only approximate figures, as different tubes will vary to some extent, but the above can be used as an average for the ordinary tube.

## FILAMENT VOLTAGE AND OTHER DATA ON VACUUM TUBES

In most cases, the information given below will apply to tubes made by independent manufacturers as well as to those distributed by the R. C. A. and Cunningham Company.

### No. 201-A TYPE TUBE

Filament voltage	5 volts
Filament battery	6 volt storage or 4 dry cells
Plate voltage	
Detector	16½ to 45 volts
Amplifier	45 to 135 volts
Filament current consumption	.25 amperes
"C" Battery needed	
When using 45 to 67.5 volts plate battery, "C" battery should be	1.5 to 3 volts
When using 67.5 to 112½ volts, "C" Battery should be	3.0 to 4.5 volts

When used as detector, it will require a .00025 Grid condenser and a grid leak or from ½ to 5 megohms. Several different sizes of grid leaks should be tried to find which will give best results. After the right value is found, it can remain permanent until detector tube is changed.

**No. 199 TYPE TUBES**

Filament voltage	3 volts
Filament battery	3 dry cells or two cells storage battery
Plate voltage	
Detector	22½ to 45 volts
Amplifier	45 to 112½ volts
Filament current consumption	.06 amperes
"C" Battery needed for 45 to 67.5 volts plate battery, "C" Battery should be	1.5 to 3 volts

**W D No. 11 or W D No. 12 TYPE TUBE**

Filament voltage	1.5 volts
Filament battery	1 dry cell or 2 volt cell from storage battery.

Note: If two volt cell from storage battery is used, care must be taken to keep the rheostat turned down low.

Plate voltage	
For Detector	22½ to 45 volts
For Amplifier	45 to 100 volts
Filament current consumption	.20 amperes at 1½ volts
"C" Battery needed	These will be same as for No. 199 Type tubes.

**LOCATING TROUBLE IN A RADIO SET**

Note: The following is taken from our book of Radio Theory Simplified, but due to the fact that the Log and Call Book is always handy when trouble is experienced in the receiver, we believe it a good thing to reprint here.

**IF THE SET FAILS TO OPERATE AT ALL**

See if the aerial and ground are connectel to their proper places.

Phone or loud speaker may be disconnected.

"A" and "B" batteries may be disconnected.

Leads from "B" battery may be reversed. Trace out and see that the positive side of the "B" battery is connected to the plate terminal of the audion bulb.

One of the tubes in the set may be burned out or the elements of the tube may be touching each other.

Check the set over and see if there are any loose connections.

A phone condenser may be shorted.

A transformer may be shorted or burned out.



One of the jacks in the set may be open. This oftentimes happens. To find out if it is causing the trouble press down on the leaves of the different jacks and see if a signal can be received.

Tubes may not be making contact in their sockets. Try pressing down on different tubes to see if this brings in signals.

Phone plug may not be making proper contact in jack due to its not being pushed in far enough.

Dead "B" batteries. These should be tested with a volt meter.

Variable condenser or secondary coils may be shorted.

### **IF NOISES ARE HEARD IN THE SET BUT NO SIGNALS CAN BE RECEIVED**

Look for poor connection to aerial and ground.

Look for poor connection to "A" battery making filament current unsteady.

Set may be in an oscillating condition due to the tickler coil being too closely coupled.

Grid wire or return lead from grid to "A" battery may be open. This generally causes a very pronounced A-C hum or whistle.

Variable condenser may be shorted. (Keep variable condensers free from dust between plates.)

"B" battery voltage on the detector may be too high. Try changing Detector "B" battery voltage.

Jacks may be open.

Noises may be due to power leaks, x-ray machines, motors, arc lights, flickering, etc. To see if this is causing trouble, disconnect aerial and ground to see if noises disappear.

Lightning Arrestor may be shorted.

### **WEAK SIGNALS**

Exhausted "A" or "B" battery.

"A" battery terminals may be reversed.

Poor bulbs.

Poor socket contacts.

Inefficient transformers.

Amplifier "B" battery voltage too low.

Detector "B" battery voltage too high or too low.

Poor phones or loud talker.

Poor grid condensed.

Grid leak not of proper value. Try changing to different sizes.

Phones or loud speaker leads may be reversed. Try changing around and see which gives best signals.

Set may not tune to wave length which it is desired to hear. Try adding loading coils.

Tickler coil connections may be reversed.

Phone condenser omitted.

Shellac or paraffin on coils. Use high dielectric varnish only.

Signals may be fading. Noticed especially in the summer time and on distant stations. Nothing can be done to rectify this trouble except that sometimes where the fading comes at long intervals variations may be followed by changing the tuning.

Poor aerial or ground. Fastened ground to water pipe or to pipe driven into moist earth.

Inefficient parts used in set.

Leads to primary of audio frequency transformer may be reversed.

Set untuned. Some radio frequency sets are very hard to tune, so do not become discouraged until sure you know how to operate.

### NOISES PRESENT WITH SIGNALS

Static, especially in summer. Not much can be done to overcome static, except that shorter aerials or a loop may be used. Sets using radio frequency amplification do not amplify static to any great extent.

Power leak caused by defective transformer or poor insulator of high tension line. If sure this is causing trouble, notify local power company.

Battery charger operating close by.

Arc light flickering.

Passing street cars.

Noises caused by improperly operated nearby regenerative sets.

One broadcasting station heterodyning another.

If noises are caused by any of the reasons above, they should practically disappear when antenna and ground are disconnected.

Noisy or nearly exhausted "B" battery.

Excessive regeneration.

Amplifier tubes turned up too high.

Corroded connections caused by using acid flux in soldered joints.

If using reflex set crystal may not be making contact.

Radio or audio frequency transformers too close together. Spread apart and place at right angles to each other.

Noises are caused by vibration of UV 199 type Bulb. Use sponge rubber cushioned socket.

Leaking or broken down condensers.

Noise can be heard if set has a loose connection, especially when set into vibration.

Pencil marks or acid making low resistance path between terminals.

### CAUSES OF DISTORTED SIGNALS

Defective bulbs.

Defective transformers.

Excessive regeneration. Loosened coupling of tickler and turned down detector bulb.

Excessive "B" battery voltage.

Overloading phones or loud speaker.

Loud speaker terminals reversed.

## DUSTON'S RADIO

## STATION LOG

Date	Time	Station Call Letters	Located at	Distance	Wave Length	Dial Readings			Program
3/27	8:10	WJZ	Calverton C		252	5.2	6	1	
	7:30	WJZ			45	5.4	6	6	
	7:15	WGR			20	6	6		
	7:00	WJZ			20	6	6		
	7:30	WJZ			25	6	6		
4/1		WJZ			251	21	6	6	
		WGY			3	6	6		
		WJZ							
		WHT			35"				
		WJZ			41"	14	6	6	
		WJEN	Calverton		254	65	5.4	5.4	
		KTN	Calverton		256	41	5.4	5.1	
		C940	Tomboro		291	30	3	6	
		WJZ	Calverton	450-400		40	6	6	
		WJZ	Calverton	41	326	37	5.6	5.4	
		WJZ	Calverton		323	37	6	6	
		WJZ	Calverton		341	35	6	6	
		WJZ	Calverton		4.1	7.4	6	7	
	11:5	HSBA	Calverton						
		HE			231	76	6	7	
		HFYA	Bainbridge		252	677	6	6	
		WJZ	Calverton		240	74	6	6	
		WJZ	Calverton		322	39	6	6	
		WJZ	Calverton			27	6	6	













WABC - NY  
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