

**The Boston Globe**

**RADIO  
STATION  
CALL  
BOOK**

**Comprising a list of Broadcasting  
Stations of the United States and  
Canada and the Principal Short  
Wave and Experimental Tele-  
vision Stations of the World.**

**(Corrections to September 15, 1930)  
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# BROADCASTING STATIONS OF THE UNITED STATES

ALPHABETICALLY ARRANGED

Call	Location	Wave	Power	Call	Location	Wave	Power
KDKA	Pittsburg, Penn.	305.9	5000	KOIL	Council Bluffs, Ia.	238	1000
KDYL	Salt Lake City, Utah	232.4	1000	KOIN	Portland, Or.	319	1000
KECA	Los Angeles, Calif.	209.7	1000	KOL	Seattle, Wash.	236.1	1000
KELW	Burbank, Calif.	384.4	500	KOMO	Seattle, Wash.	325.9	1000
KEX	Portland, Or.	254.1	5000	KOY	Phoenix, Ari.	215.7	500
KFAB	Lincoln, Neb.	389.4	5000	KPO	San Francisco, Calif.	440.9	5000
KFBB	Great Falls, Mont.	234.4	1000	KPOF	Denver, Colo.	340.7	500
KFDM	Beaumont, Tex.	535.4	500	KPRC	Houston, Tex.	325.9	1000
KFDY	Brookings, S D	545.1	500	KPSN	Pasadena, Calif.	220.4	1000
KFEL	Denver, Colo.	325.9	500	KPWF	Los Angeles, Calif.	201.2	5000
KFEQ	St Joseph, Mo.	440.9	2500	KQV	Pittsburg, Penn.	217.3	500
KFH	Wichita, Kan.	230.6	1000	KQW	San Jose, Calif.	296.9	500
KFI	Los Angeles, Calif.	468.5	5000	KRGV	Harlingen, Tex.	238	500
KJFF	Oklahoma City, Ok.	202.6	5000	KRLD	Dallas, Tex.	288.3	1000
KJFM	Grand Forks, N D	218.8	100	KROW	Oakland, Calif.	322.4	500
KJFR	Portland, Or.	230.6	500	KSAC	Manhattan, Kansas	516.9	500
KKFA	Greeley, Colo.	340.7	500	KSCJ	Sioux City, Ia.	225.4	1000
KFKB	Millford, Kan.	285.5	5000	KSD	St Louis, Mo.	545.1	500
KFKU	Lawrence, Kan.	245.8	1000	KSL	Salt Lake City, Utah	265.3	5000
KFKX	Chicago, Ill.	293.9	1000	KSO	Clarinda, Ia.	217.3	500
KFLV	Rockford, Ill.	212.6	500	KSOO	Sioux Falls, S D	270.1	2000
KFMX	Northfield, Minn.	239.9	1000	KSTP	St Paul, Minn.	205.4	1000
KFNF	Shenandoah, Ia.	336.9	500	KTAB	San Francisco, Calif.	535.4	1000
KFOX	Long Beach, Calif.	239.9	1000	KTAR	Phoenix, Ari.	483.6	500
KFPY	Spokane, Wash.	223.7	1000	KTAT	Fort Worth, Tex.	241.8	1000
KFRC	San Francisco, Calif.	491.5	1000	KTBI	Los Angeles, Calif.	230.6	1000
KFRU	Columbia, Mo.	475.9	500	KTBR	Portland, Or.	230.6	500
KFRD	San Diego, Calif.	499.7	500	KTBS	Shreveport, La.	206.8	1000
KFSG	Los Angeles, Calif.	267.7	500	KTBS	Hot Springs, Ark.	288.3	1000
KFUL	Galveston, Tex.	232.4	500	KTM	Los Angeles, Calif.	384.4	500
KFUM	Colorado Springs, Colo.	236.1	1000	KTNT	Muscataine, Ia.	256.3	5000
KFUO	Clayton, Mo.	545.1	500	KTRH	Houston, Tex.	267.7	500
KFWB	Hollywood, Calif.	315.6	1000	KTSA	San Antonio, Tex.	232.4	1000
KFWI	San Francisco, Calif.	322.4	500	KTW	Seattle, Wash.	236.1	1000
KFXF	Denver, Colo.	325.9	500	KUOA	Fayetteville, Ark.	215.7	1000
KFYR	Bismarek, N D	545.1	500	KUSD	Vermilion, S D	336.9	500
KGA	Spokane, Wash.	204	5000	KVI	Tacoma, Wash.	394.5	1000
KGB	San Diego, Calif.	225.4	500	KVOA	Tucson, Ari.	238	500
KGBU	Ketchikan, Alaska	331.1	500	KVOO	Tulsa, Ok.	263	5000
KGBZ	York, Neb.	322.4	500	KWJJ	Portland, Or.	232.8	500
KGEF	Los Angeles, Calif.	230.6	1000	KWK	St Louis, Mo.	222.1	1000
KGER	Long Beach, Calif.	220.4	1000	KWKH	Shreveport, La.	352.7	1000
KGGF	Picher, Ok.	296.9	500	KWSC	Pullman, Wash.	245.8	500
KGHL	Billings, Mont.	315.6	1000	KWWG	Brownsville, Tex.	238	500
KGIR	Butte, Mont.	220.4	500	KXA	Seattle, Wash.	526	500
KGNF	North Platte, Neb.	209.7	500	KYA	San Francisco, Calif.	243.8	1000
KGO	San Francisco, Calif.	379.5	7500	KYW	Chicago, Ill.	293.9	1000
KGRS	Amarillo, Tex.	212.6	1000	KFKX	Chicago, Ill.	325.9	500
KGU	Honolulu, Hawaii	319	1000	WAAF	Newark, N J.	239.9	1000
KGW	Portland, Or.	483.6	1000	WAAM	Jersey City, N J.	319	300
KHJ	Los Angeles, Calif.	333.1	1000	WAAT	Omaha, Neb.	454.3	500
KHQ	Spokane, Wash.	508.2	1000	WAAW	New York City	348.6	5000
KIDO	Boise, Ida.	239.9	1000	WABC	Bangor, Me.	249.9	100
KJR	Seattle, Wash.	309.1	5000	WBOQ	Rochester, N H.	208.2	500
KLO	Ogden, Utah	214.2	5000	WABI	Waco, Tex.	241.8	1000
KLRA	Little Rock, Ark.	215.7	1000	WABO	Tallmadge, O	227.1	1000
KLX	Oakland, Calif.	340.7	500	WACO	Columbus, O.	468.5	500
KLZ	Denver, Colo.	535.4	1000	WADC	Birmingham, Ala.	263	5000
KMA	Shenandoah, Ia.	322.4	500	WAU	Columbus, O.	468.5	500
KMBC	Kansas City, Mo.	315.6	1000	WAPI	Birmingham, Ala.	263	5000
KMIC	Inglewood, Calif.	267.7	500	WASH	Grand Rapids, Mich.	236.1	500
KMMJ	Clay Center, Neb.	405.2	1000	WBAA	W Lafayette, Ind.	214.2	500
KMO	Tacoma, Wash.	348.6	500	WBAK	Harrisburg, Penn.	209.7	500
KMOX	St Louis, Mo.	275.1	5000	WBAL	Baltimore, Md.	282.8	1000
KMPC	Beverly Hills, Calif.	422.3	5000	WBAP	Fort Worth, Tex.	374.8	1000
KMTR	Los Angeles, Calif.	526	500	WBBC	Brooklyn, N Y.	214.2	500
KNX	Hollywood, Calif.	285.5	5000	WBBM	Chicago, Ill.	389.4	25000
KOA	Denver, Colo.	361.2	12500	WBET	Brooklyn, N Y.	230.6	1000
KOAC	Corvallis, Or.	545.1	1000	WBRR	Buffalo, N Y.	333.1	1000
KOBI	State College, N M.	254.1	20000	WBEN	Bay City, Mich.	212.6	500
KOH	Reno, Nev.	217.3	500	WBCM			

Call	Location	Wave	Power	Call	Location	Wave	Power
WBMS	Hackensack, N J.	206.8	250	WHAM	Rochester, N Y.	260.7	5000
WBNY	New York, N Y.	221.1	250	WHAP	New York City, N Y.	230.6	1000
WBOQ	New York	348.6	5000	WHAS	Louisville, Ky.	365.6	10000
WBRC	Birmingham, Ala.	322.4	500	WHB	Troy, N Y.	230.6	500
WBSO	Wellesley Hills, Mass.	325.9	250	WHAB	Kansas City, Mo.	348.6	500
WBT	Charlotte, N C.	277.6	5000	WHDH	Boston, Mass.	361.2	1000
WBTM	Danville, Va.	218.8	100	WHDI	Minneapolis, Minn.	254.1	500
WBZ	Springfield, Mass.	302.8	16000	WHEC	} Rochester, N Y.	208.2	500
WBZA	Boston, Mass.	302.8	500	WABO			
WCAC	Storrs, Conn.	499.7	250	WHK	Cleveland, O.	215.7	1000
WCAD	Canton, N Y.	245.8	500	WHN	New York City, N Y.	296.9	250
WCAE	Pittsburg, Penn.	245.8	1000	WHO	Des Moines, Ia.	299.8	5000
WCAJ	Lincoln, Neb.	508.2	500	WHOM	Jersey City, N J.	206.8	250
WCAL	Northfield, Minn.	239.9	1000	WHP	Harrisburg, Penn.	209.7	500
WCAM	Camden, N J.	234.4	500	WIBA	Madison, Wis.	234.4	500
WCAO	Baltimore, Md.	499.7	250	WIBO	Chicago, Ill.	535.4	1000
WCAP	Asbury, N J.	234.4	500	WIBW	Topeka, Kan.	516.9	500
WCAU	Philadelphia, Penn.	256.3	10000	WIBX	Utica, N Y.	249.9	100
WCAX	Burlington, Vt.	249.9	100	WICC	Bridgeport, Conn.	252	500
WCBD	Zion, Ill.	277.6	5000	WILL	Urbana, Ill.	336.9	250
WCCO	Minneapolis, Minn.	370.2	7500	WILM	Wilmington, Del.	211.1	100
WCDA	New York City	222.1	250	WIOD	} Miami Beach, Fla.	230.6	1000
WCFL	Chicago, Ill.	309.1	1500	WMBF			
WCGU	Brooklyn, N Y.	214.2	500	WIP	Philadelphia, Penn.	491.5	500
WCKY	Covington, Ky.	201.2	5000	WIS	Columbia, S C.	296.9	500
WCLB	Long Beach, N Y.	199.9	100	WISJ	Beloit, Wis.	535.4	500
WCMA	Culver, Ind.	214.2	500	WJAG	Norfolk, Neb.	282.8	1000
WCOA	Pensacola, Fla.	223.7	500	WJAR	Providence, R I.	336.9	250
WCOC	Meridian, Miss.	340.7	500	WJAS	Pittsburg, Penn.	232.4	1000
WCSC	Charleston, S C.	220.4	500	WJAX	Jacksonville, Fla.	333.1	1000
WCSS	Portland, Me.	319	1000	WJAY	Cleveland, O.	491.5	500
WCSSO	Springfield, O.	206.8	500	WJAZ	Mt Prospect, Ill.	201.2	5000
WDAE	Tampa, Fla.	245.8	1000	WJBI	Red Bank, N J.	247.8	100
WDAF	Kansas City, Mo.	491.5	1000	WJBT	Chicago, Ill.	389.4	25000
WDAG	Amarillo, Tex.	212.6	1000	WJDX	Jackson, Miss.	236.1	500
WDAY	Fargo, N D.	319	1000	WJJD	Mooseheart, Ill.	265.3	20000
WDBJ	Roanoke, Va.	322.4	250	WJKS	Gary, Ind.	220.4	1000
WDBO	Orlando, Fla.	267.7	500	WJR	Detroit, Mich.	399.8	5000
WDEL	Wilmington, Del.	267.7	250	WJSV	Alexandria, Va.	205.4	1000
WDGY	Minneapolis, Minn.	254.1	1000	WJZ	New York City, N Y.	394.5	30000
WDOD	Chattanooga, Tenn.	234.4	1000	WKAQ	San Juan, P R.	336.9	500
WDRG	New Haven, Conn.	225.4	500	WKAR	E Lansing, Mich.	288.3	1000
WDSU	New Orleans, La.	239.9	1000	WKAV	Laconia, N H.	228.9	100
WDFW	} Providence, R I.	247.8	100	WKBF	Indianapolis, Ind.	214.2	500
WLSI				WKBH	La Crosse, Wis.	217.3	1000
WEAF	New York, N Y.	454.3	5000	WKBN	Youngstown, O.	526	500
WEAI	Ithaca, N Y.	236.1	1000	WKBO	Jersey City, N J.	206.8	250
WEAN	Providence, R I.	384.4	250	WKBW	New York City, N Y.	222.1	250
WEAO	Columbus, O.	526	750	WKBW	Buffalo, N Y.	202.6	5000
WEBC	Superior, Wis.	232.4	1000	WKRC	Cincinnati, O.	545.1	1000
WEBR	Buffalo, N Y.	228.9	100	WKY	Oklahoma City, Ok.	333.1	1000
WEEL	Boston, Mass.	508.2	1000	WKZO	Berrien Springs, Mich.	508.2	1000
WENR	} Chicago, Ill.	344.6	5000	WLAC	Nashville, Tenn.	204	5000
WBCN				WLB	} Minneapolis, Minn.	239.9	1000
WEPS	Worcester.	249.9	100	WGMG			
WEVD	New York City, N Y.	230.6	500	WLBL	Stevens Point, Wis.	333.1	2000
WEW	St Louis, Mo.	394.5	1000	WLWB	Oil City, Penn.	288	500
WFAA	Dallas, Tex.	374.8	50000	WLWB	Long Island City, N Y.	199.9	100
WFAN	Philadelphia, Penn.	491.5	500	WLWX	Bangor, Me.	483.6	500
WFBL	Syracuse, N Y.	220.4	1000	WLEX	Lexington, Mass.	212.6	500
WFBN	Indianapolis, Ind.	243.8	1000	WLEY	Lexington, Mass.	218.8	100
WFBR	Baltimore, Md.	236.1	250	WLBI	Chicago, Ill.	416.4	25000
WFI	Philadelphia, Penn.	535.4	500	WLIT	Philadelphia, Penn.	535.4	500
WFIW	Hopkinsville, Ky.	319	1000	WLOE	Boston, Mass.	199.9	100
WFJC	Akron, O.	206.8	500	WLS	Chicago, Ill.	344.6	5000
WFLA	} Clearwater, Fla.	483.6	1000	WLSI	Providence, R I.	247.8	100
WSUN				WLTH	Brooklyn, N Y.	214.2	500
WGBB	Freeport, N Y.	247.8	100	WLW	Cincinnati, O.	428.3	50000
WGBG	Memphis, Tenn.	209.7	500	WLWL	New York City, N Y.	272.6	5000
WGBF	Evansville, Ind.	475.9	500	WMAF	Cazenovia, N Y.	526	250
WGBI	Scranton, Penn.	340.7	250	WMAK	So Dartmouth, Mass.	212.6	500
WGBS	New York City.	499.7	250	WMAK	Buffalo, N Y.	288.3	1000
WGCP	Newark, NJ	239.9	250	WMAL	Washington, D C.	475.9	250
WGES	Chicago, Ill.	220.4	500	WMAQ	Chicago, Ill.	447.5	5000
WGN	} Chicago, Ill.	416.4	25000	WMBA	Newport, R I.	199.9	100
WLIB				WMBD	Peoria Heights, Ill.	208.2	500
WGR	Buffalo, N Y.	545.1	1000	WMBF	Miami Beach, Fla.	230.6	1000
WGY	Schenectady, N Y.	379.5	50000	WMBI	Chicago, Ill.	277.6	5000
WHA	Madison, Wis.	319	750	WMBO	Auburn, N Y.	228.9	100

Call	Location	Wave	Power	Call	Location	Wave	Power
WMBQ	Brooklyn, N Y.....	199.9	100	WRAX	Philadelphia, Penn.....	293.9	250
WMC	Memphis, Tenn.....	384.4	500	WRBX	Roanoke, Va.....	212.6	250
WMCA	New York City, N Y.....	526	500	WRC	Washington, D C.....	315.6	500
WMSG	New York City, N Y.....	222.1	250	WRDO	Augusta, Me.....	218.8	100
WMT	Waterloo, Ia.....	499.7	500	WREC	} Memphis, Tenn.....	499.7	500
WNAC	} Boston, Mass.....	243.8	1000	WOAN		Lawrence, Kan.....	245.8
WBIS		Norman, Ok.....	296.9	500	WRHM	Minneapolis, Minn.....	239.9
WNAD	Yankton, S D.....	526	1000	WRNY	New York City, N Y.....	296.9	250
WNAX	Binghamton, N Y.....	199.9	100	WRR	Dallas, Tex.....	234.4	500
WNBF	New Bedford, Mass.....	223.9	100	WRUF	Gainesville, Fla.....	361.2	5000
WNBH	Memphis, Tenn.....	209.7	500	WRVA	Richmond, Va.....	270.1	5000
WNBR	Newark, N J.....	206.8	250	WSAI	Cincinnati, O.....	225.4	500
WNJ	Knoxville, Tenn.....	535.4	1000	WSAN	Allentown, Penn.....	208.2	250
WNOX	Greensboro, N C.....	208.2	500	WSAR	Fall River, Mass.....	206.8	250
WNRC	New York City, N Y.....	526	500	WSAZ	Huntington, W Va.....	516.9	250
WNYC	San Antonio, Tex.....	252	5000	WSB	Atlanta, Ga.....	405.2	5000
WOAI	Memphis, Tenn.....	499.7	500	WSBT	South Bend, Ind.....	243.8	500
WOAN	Trenton, N J.....	234.4	500	WSDA	Brooklyn, N Y.....	214.2	500
WOAX	Charleston, W Va.....	516.9	250	WSFA	Montgomery, Ala.....	212.6	500
WOBU	Davenport, Ia.....	299.8	5000	WSGH	} Brooklyn, N Y.....	214.2	500
WOC	Paterson, N J.....	239.9	1000	WSDA		Nashville, Tenn.....	461.3
WODA	Mobile, Ala.....	212.6	500	WSM	New Orleans, La.....	227.1	500
WODX	Ames, Ia.....	468.5	5000	WSMB	Dayton, O.....	217.3	200
WOI	Poughkeepsie, N Y.....	208.2	500	WSMK	Toledo, O.....	223.7	500
WOKO	Grand Rapids, Mich.....	236.1	500	WSPD	Boston, Mass.....	212.6	500
WOOD	Kansas City, Mo.....	230.6	1000	WSSH	Iowa City, Ia.....	340.7	500
WOQ	Newark, N J.....	422.3	5000	WSUI	Clearwater, Fla.....	483.6	1000
WOR	} Worcester, Mass.....	249.9	100	WSUN	Syracuse, N Y.....	526	250
WORC		Chicago, Ill.....	201.2	5000	WSYR	Quincy, Ill.....	208.2
WEPS	Jefferson City, Mo.....	475.9	500	WTAD	Worcester, Mass.....	516.9	250
WORD	New York City, N Y.....	265.3	1000	WTAM	Cleveland, O.....	280.2	50000
WOS	Omaha, Neb.....	508.2	1000	WTAQ	Eau Claire, Wis.....	225.4	1000
WOW	Fort Wayne, Ind.....	258.5	10000	WTAR	} Norfolk, Va.....	384.4	500
WOWO	New York City, N Y.....	296.9	250	WPOR		College Station, Tex.....	267.7
WPAP	Pawtucket, R I.....	247.8	100	WTBW	Cumberland, Md.....	211.1	100
WPCC	Chicago, Ill.....	535.4	500	WTFI	Toccoa, Ga.....	206.8	500
WPCH	New York City, N Y.....	370.2	500	WTIC	Hartford, Conn.....	282.8	50000
WPG	Atlantic City, N J.....	272.6	5000	WTMJ	Milwaukee, Wis.....	483.6	1000
WPOE	Patchogue, N Y.....	218.8	100	WTNT	Nashville, Tenn.....	204	5000
WPOR	Norfolk, Va.....	384.4	500	WTOC	Savannah, Ga.....	238	500
WPSC	State College, Penn.....	243.8	500	WWJ	Detroit, Mich.....	325.9	1000
WPTF	Raleigh, N C.....	440.9	1000	WWL	New Orleans, La.....	352.7	5000
WQAM	Miami, Fla.....	535.4	1000	WWNC	Asheville, N C.....	526	1000
WQAN	Scranton, Penn.....	340.7	250	WWRL	Woodside, N Y.....	199.9	100
WQAO	} New York City, N Y.....	296.9	250	WVVA	Wheeling, W Va.....	258.5	5000
WPAP		WXYZ				Detroit, Mich.....	241.8

## CANADIAN BROADCASTING STATIONS

Call	Location	Wave	Power	Call	Location	Wave	Power
CFAC	Calgary, Alta.....	434.5	500	CJRW	Fleming, Sask.....	500	500
CFCA	Toronto, Ont.....	357.1	500	CJRX	Middlechurch, Man.....	25.6	2000
CFCE	Montreal, Que.....	291.3	500	CJSC	Toronto, Ont.....	434.8	5000
CFCH	Iroquois Falls, Ont.....	500	250	CKAC	Near St Hyacinthe, Que.....	411	5000
CFCN	Calgary, Alta.....	434.5	500	CKCK	Regina, Sask.....	312.5	500
CFCO	Chatham, Ont.....	247.9	100	CKCL	Toronto, Ont.....	517.2	500
CFCT	Victoria, B C.....	476.2	500	CKCO	Ottawa, Ont.....	337.1	100
CFCY	Charlottetown, P E I.....	312.5	250	CKGW	Bowmanville, Ont.....	434.8	5000
CFQC	Saskatoon, Sask.....	329.7	500	CKNC	Toronto, Ont.....	517.2	500
CFRB	Township of King York County, Ont.....	312.5	4000	CKUA	Edmonton, Alta.....	517.2	500
CFRC	Kingston, Ont.....	322.6	500	CKX	Brandon, Man.....	556.6	500
CHCT	Red Deer, Alta.....	357.1	1000	CKY	Winnipeg, Man.....	384.6	5000
CHGS	Summerside, P E I.....	267.9	100	CNRA	Moncton, N B.....	476.2	500
CHNS	Halifax, N S.....	322.6	500	CNRH	Halifax, N S.....	322.6	500
CHRC	Quebec, Que.....	340.9	100	CNRL	London, Ont.....	329.7	500
CHYC	Near St Hyacinthe, Que.....	411	5000	CNRM	Montreal, Que.....	411	5000
CJBC	Toronto, Ont.....	434.8	5000	CNRO	Ottawa, Ont.....	500	500
CJ CJ	Calgary, Alta.....	434.8	500	CNRT	Toronto, Ont.....	357.1	500
CJGC	London, Ont.....	329.7	500	CNRW	Winnipeg, Man.....	384.6	5000
CJRM	Moose Jaw, Sask.....	500	500	CNRY	Toronto, Ont.....	312.5	4000
				CPRY	Toronto, Ont.....	434.8	5000

# AMERICAN BROADCASTING STATIONS

## BY WAVELENGTHS AND FREQUENCIES

<b>545.1 METERS—550 KILOCYCLES</b>		<b>475.9 METERS—630 KILOCYCLES</b>	
WGR	Buffalo, N Y..... 1000 watts	WMAL	Washington, D C..... 250 watts
WKRC	Cincinnati, O..... 1000 "	WOS	Jefferson City, Mo.... 500 "
KFUO	Clayton, Mo..... 500 "	KFRU	Columbia, Mo..... 500 "
KSD	St Louis, Mo..... 500 "	WGBF	Evansville, Ind..... 500 "
KFDY	Brookings, S D..... 500 "		
KFYR	Bismarck, N D..... 500 "	<b>468.5 METERS—640 KILOCYCLES</b>	
KOAC	Corvallis, Or..... 1000 "	WAIU	Columbus, O..... 500 watts
<b>558.4 METERS—560 KILOCYCLES</b>		WOI	Ames, Ia..... 5000 "
WLIT	Philadelphia, Penn.... 500 watts	KFI	Los Angeles, Calif..... 5000 "
WFI	Philadelphia, Penn.... 500 "	<b>461.3 METERS—650 KILOCYCLES</b>	
WQAM	Miami, Fla..... 1000 "	WSM	Nashville, Tenn..... 5000 watts
KFDM	Beaumont, Tex..... 500 "	KPOB	Seattle, Wash..... 100 "
WNOX	Knoxville, Tenn..... 1000 "	<b>454.3 METERS—660 KILOCYCLES</b>	
WIBO	Chicago, Ill..... 1000 "	WEAF	New York City, N Y... 50000 watts
WPCC	Chicago, Ill..... 500 "	WAAW	Omaha, Neb..... 500 "
WISJ	Beloit, Wis..... 500 "	<b>447.5 METERS—670 KILOCYCLES</b>	
KLZ	Denver, Colo..... 1000 "	WMAQ	Chicago, Ill..... 5000 watts
KTAB	San Francisco, Calif... 1000 "	<b>440.9 METERS—680 KILOCYCLES</b>	
<b>526 METERS—570 KILOCYCLES</b>		WPTF	Raleigh, N C..... 1000 watts
WNYC	New York City, N Y... 500 watts	KFEQ	St Joseph, Mo..... 2500 "
WMCA	New York City, N Y... 500 "	KPO	San Francisco, Calif... 5000 "
WSYR	Syracuse, N Y..... 250 "	<b>434.5 METERS—690 KILOCYCLES</b>	
WMAC	Cazenovia, N Y..... 250 "	CFAC	Calgary, Alta..... 500 watts
WKBN	Youngstown, O..... 500 "	CFON	Calgary, Alta..... 500 "
WEAO	Columbus, O..... 750 "	CHCA	Calgary, Alta..... 500 "
WWNC	Asheville, N C..... 1000 "	CJBC	Toronto, Ont..... 5000 "
KGKO	Wichita Falls, Tex.... 250 "	CJ CJ	Calgary, Alta..... 500 "
WNAX	Yankton, S D..... 1000 "	CJCS	Toronto, Ont..... 5000 "
KXA	Seattle, Wash..... 500 "	CKGW	Bowmanville, Ont.... 5000 "
KMTR	Los Angeles, Calif.... 500 "	CNRC	Calgary, Alta..... 500 "
<b>516.9 METERS—580 KILOCYCLES</b>		CPRY	Toronto, Ont..... 5000 "
WTAG	Worcester, Mass..... 250 watts	<b>429.3 METERS—700 KILOCYCLES</b>	
WOBU	Charleston, W Va..... 250 "	WLW	Cincinnati, O..... 50000 watts
WSAZ	Huntington, W Va.... 250 "	<b>422.3 METERS—710 KILOCYCLES</b>	
KGFX	Pierre, S D..... 200 "	WOR	Newark, N J..... 5000 watts
WIBW	Topeka, Kan..... 500 "	KMPC	Beverly Hills, Calif... 500 "
KSAC	Manhattan, Kan..... 500 "	<b>416.4 METERS—720 KILOCYCLES</b>	
<b>508.2 METERS—590 KILOCYCLES</b>		WGN	Chicago..... 25000 watts
WEEL	Boston, Mass..... 1000 watts	WLIB	
WKZO	Berrien Springs, Mich. 1000 "	<b>410.7 METERS—730 KILOCYCLES</b>	
WCAJ	Lincoln, Neb..... 500 "	CHLS	Vancouver, B C..... 50 watts
WOW	Omaha, Neb..... 1000 "	CHYC	St Hyacinthe, Que... 5000 "
KHQ	Spokane, Wash..... 1000 "	CKAC	St Hyacinthe, Que... 500 "
<b>499.7 METERS—600 KILOCYCLES</b>		CKDC	Vancouver, B C..... 50 "
WCAC	Storrs, Conn..... 250 watts	CHFC	Vancouver, B C..... 50 "
WCAO	Baltimore, Md..... 250 "	CKMO	Vancouver, B C..... 50 "
WGBS	New York City, N Y... 250 "	CKWX	Vancouver, B C..... 100 "
WREC	Memphis, Tenn..... 500 "	CNRM	Montreal, Que..... 5000 "
WOAN	Waterloo, Ia..... 500 "	<b>405.2 METERS—740 KILOCYCLES</b>	
WMT	San Diego, Calif..... 500 "	WSB	Atlanta, Ga..... 5000 watts
KFSD		KMMJ	Clay Center, Neb..... 1000 "
<b>491.5 METERS—610 KILOCYCLES</b>		<b>399.3 METERS—750 KILOCYCLES</b>	
WJAY	Cleveland, O..... 500 watts	WJR	Detroit, Mich..... 5000 watts
WFAN	Philadelphia, Penn.... 500 "	<b>394.5 METERS—760 KILOCYCLES</b>	
WIP	Philadelphia, Penn.... 500 "	WJZ	New York City, N Y... 30000 watts
WDAF	Kansas City, Mo..... 1000 "	WEW	St Louis, Mo..... 1000 "
KFRG	San Francisco, Calif... 1000 "	KVI	Tacoma, Wash..... 1000 "
<b>483.6 METERS—620 KILOCYCLES</b>			
WLBZ	Bangor, Me..... 500 watts		
WFLA	Clearwater, Fla..... 1000 "		
WSUN			
WTMJ	Milwaukee, Wis..... 1000 "		
KGW	Portland, Or..... 1000 "		
KTAR	Phoenix, Ari..... 500 "		

**389.4 METERS—770 KILOCYCLES**

KFAB	Lincoln, Neb.....	5000 watts
WBMB	Chicago, Ill.....	25000 "
WJBT		

**384.4 METERS—780 KILOCYCLES**

WEAN	Providence, R I.....	250 watts
WFAR	Norfolk, Va.....	500 "
WFOR		
WMC	Memphis, Tenn.....	500 "
KELW	Burbank, Calif.....	500 "
KTM	Los Angeles, Calif.....	500 "

**379.5 METERS—790 KILOCYCLES**

WGY	Schenectady, N Y.....	50000 watts
KGO	San Francisco, Calif.....	7500 "

**374.8 METERS—800 KILOCYCLES**

WBAP	Fort Worth, Tex.....	50000 watts
WFAA	Dallas, Tex.....	50000 "

**370.2 METERS—810 KILOCYCLES**

WPOH	New York City, N Y....	500 watts
WCOO	Minneapolis, Minn.....	7500 "

**365.6 METERS—820 KILOCYCLES**

WHAS	Louisville, Ky.....	10000 watts
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**361.2 METERS—830 KILOCYCLES**

WHDH	Boston, Mass.....	1000 watts
WRUF	Gainesville, Fla.....	5000 "
KOA	Denver, Colo.....	12500 "

**356.9 METERS—840 KILOCYCLES**

CFCA	Toronto, Ont.....	500 watts
CHCT	Red Deer, Alta.....	1000 "
CKLC	Red Deer, Alta.....	1000 "
CNRD	Red Deer, Alta.....	1000 "
CNRT	Toronto, Ont.....	500 "

**352.7 METERS—850 KILOCYCLES**

KWKH	Shreveport, La.....	10000 watts
WWL	New Orleans, La.....	5000 "

**348.6 METERS—860 KILOCYCLES**

WABC	New York City.....	5000 watts
WBOQ		
WHB	Kansas City, Mo.....	500 "
KMO	Tacoma, Wash.....	500 "

**344.6 METERS—870 KILOCYCLES**

WLS	Chicago, Ill.....	5000 watts
WENR	Chicago, Ill.....	50000 "
WBCN		

**340.7 METERS—880 KILOCYCLES**

WGBI	Scranton, Penn.....	250 watts
WQAN	Scranton, Penn.....	250 "
WCOO	Meridian, Miss.....	500 "
WSUI	Iowa City, Iowa.....	500 "
KLX	Oakland, Calif.....	500 "
KFOF	Denver, Colo.....	500 "
KPFN	Greeley, Colo.....	500 "

**336.9 METERS—890 KILOCYCLES**

WJAR	Providence, R I.....	250 watts
WKAQ	San Juan, P R.....	500 "
WMMN	Fairmont, W Va.....	250 "
WMAZ	Macon, Ga.....	250 "
WGST	Atlanta, Ga.....	250 "
KGJF	Little Rock, Ark.....	250 "
WILL	Urbana, Ill.....	250 "
KUSD	Vermillion, S D.....	500 "
KFNF	Shenandoah, Iowa.....	500 "

**333.1 METERS—900 KILOCYCLES**

WBEN	Buffalo, N Y.....	1000 watts
WKY	Oklahoma City, Ok....	1000 "
WJAX	Jacksonville, Fla.....	1000 "
WLBL	Stevens Point, Wis....	2000 "
KHJ	Los Angeles, Calif.....	1000 "
KSEI	Pocatello, Idaho.....	250 "
KGBU	Ketchikan, Alaska.....	500 "

**329.5 METERS—910 KILOCYCLES**

CFQC	Saskatoon, Sask.....	500 watts
CJGC	London, Ont.....	500 "
CNRL	London, Ont.....	500 "
CNRS	Saskatoon, Sask.....	500 "

**325.9 METERS—920 KILOCYCLES**

WBSO	Wellesley Hills, Mass..	250 watts
WWJ	Detroit, Mich.....	1000 "
KPRC	Houston, Tex.....	1000 "
WAAF	Chicago, Ill.....	500 "
KOMO	Seattle, Wash.....	1000 "
KFEL	Denver, Colo.....	500 "
KFXF	Denver, Colo.....	500 "

**322.4 METERS—930 KILOCYCLES**

WDBJ	Roanoke, Va.....	250 watts
WBRC	Birmingham, Ala.....	500 "
KGZB	York, Neb.....	500 "
KMA	Shenandoah, Iowa.....	500 "
KFWI	San Francisco, Calif...	500 "
KROW	Oakland, Calif.....	500 "

**319 METERS—940 KILOCYCLES**

WAAT	Jersey City, N J.....	300 watts
WCSE	Portland, Me.....	1000 "
WFIW	Hopkinsville, Ky.....	1000 "
WHA	Madison, Wis.....	750 "
WDAY	Fargo, N D.....	1000 "
KOIN	Portland, Or.....	1000 "
KGU	Honolulu, T H.....	1000 "

**315.6 METERS—950 KILOCYCLES**

WRC	Washington, D C.....	500 watts
KMBC	Kansas City, Mo.....	1000 "
KFWB	Hollywood, Calif.....	1000 "
KGHL	Billings, Mont.....	500 "

**312.3 METERS—960 KILOCYCLES**

CFYF	Charlottetown, P E I..	250 watts
CFRB	Township of King, York County, Ont....	4000 "
CHCK	Charlottetown, P E I..	30 "
OHWC	Range 18 (near Pilot Butte, Sask).....	500 "
CJBR	Regina, Sask.....	500 "
CKCK	Regina, Sask.....	500 "
CNRR	Regina, Sask.....	500 "
CNRY	Toronto, Ont.....	4000 "

**309.1 METERS—970 KILOCYCLES**

WCFL	Chicago, Ill.....	1500 watts
KJR	Seattle, Wash.....	5000 "

**305.9 METERS—980 KILOCYCLES**

KDKA	Pittsburg, Penn.....	50000 watts
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**302.8 METERS—990 KILOCYCLES**

WBZ	Springfield, Mass.....	15000 watts
WBZA	Boston, Mass.....	500 "

**299.8 METERS—1000 KILOCYCLES**

WHO	Des Moines, Iowa.....	5000 watts
WOC	Davenport, Iowa.....	5000 "
KFVD	Culver City, Calif.....	250 "

296.9 METERS—1010 KILOCYCLES	258.5 METERS—1160 KILOCYCLES
WQAO } New York, N Y..... 250 watts	WVVA Wheeling, W Va..... 5000 watts
WFAP } New York, N Y..... 250 "	WOWO Fort Wayne, Ind..... 10000 "
WEN } New York, N Y..... 250 "	256.3 METERS—1170 KILOCYCLES
WRNY } New York, N Y..... 250 "	WCAU Philadelphia, Penn.... 10000 watts
KGGF } Picher, Ok ..... 500 "	KTNT Muscatine, Iowa..... 5000 "
WNAD } Norman, Ok ..... 500 "	254.1 METERS—1180 KILOCYCLES
WIS } Columbia, S C..... 500 "	WDGY Minneapolis, Minn.... 1000 watts
KQW } San Jose, Calif..... 500 "	WHDI Minneapolis, Minn.... 500 "
293.9 METERS—1020 KILOCYCLES	KEX Portland, Or..... 5000 "
WRAX Philadelphia, Penn.... 250 watts	KOB State College, N M..... 20000 "
KYW } Chicago, Ill ..... 10000 "	252 METERS—1190 KILOCYCLES
KFKZ } Chicago, Ill ..... 10000 "	WICC Bridgeport, Conn..... 500 watts
291.1 METERS—1030 KILOCYCLES	WAOI San Antonio, Tex..... 5000 "
CFCE Montreal, Que..... 500 watts	249.9 METERS—1200 KILOCYCLES
CNRV Vancouver, B C..... 500 "	WABI Bangor, Me..... 100 watts
298.3 METERS—1040 KILOCYCLES	WQAC Burlington, Vt..... 100 "
WMAK Buffalo, N Y..... 1000 watts	WORC } Worcester, Mass..... 100 "
WKAR East Lansing, Mich.... 1000 "	WIBX } Utica, N Y..... 100 "
KTHS } Hot Springs, Ark.... 10000 "	WFBE Cincinnati, Ohio..... 100 "
KRLD } Dallas, Tex..... 10000 "	WEHC Emory, Va..... 100 "
285.5 METERS—1050 KILOCYCLES	WLBG Petersburg, Va..... 100 "
KFKB Milford, Kan..... 5000 watts	WNBO Silver Haven, Penn.... 100 "
KNX Hollywood, Calif..... 5000 "	WOOD Harrisburg, Penn.... 100 "
282.8 METERS—1060 KILOCYCLES	WKJC Lancaster, Penn.... 100 "
WBAL Baltimore, Md..... 10000 watts	WARZ New Orleans, La..... 100 "
WTIC Hartford, Conn..... 50000 "	WBBZ Ponca City, Ok..... 100 "
WJAG Norfolk, Neb..... 1000 "	KGHI Little Rock, Ark.... 100 "
KWJJ Portland, Or..... 500 "	KBTM Paragould, Ark..... 100 "
280.2 METERS—1070 KILOCYCLES	WJBC LaSalle, Ill..... 100 "
WTAM Cleveland, Ohio..... 50000 watts	WJBL Decatur, Ill..... 100 "
WCAZ Carthage, Ill..... 50 "	WWAE Hammond, Ind..... 100 "
WDZ Tuscola, Ill..... 100 "	WRAF Laporte, Ind..... 100 "
KJBS San Francisco, Calif... 100 "	KFJB Marshalltown, Iowa... 100 "
277.6 METERS—1080 KILOCYCLES	KGCU Mandan, N D..... 100 "
WBT Charlotte, N C..... 5000 watts	WCAT Rapid City, S D..... 100 "
WCBD Zion, Ill..... 5000 "	KFWE St Louis, Mo..... 100 "
WBMI Chicago, Ill..... 5000 "	KGDE Fergus Falls, Minn... 100 "
275.1 METERS—1090 KILOCYCLES	WCLO Kenosha, Wis..... 100 "
KMOX St Louis, Mo..... 5000 watts	WBHY Green Bay, Wis..... 100 "
272.6 METERS—1100 KILOCYCLES	WIL St Louis, Mo..... 100 "
WPG Atlantic City, N J..... 5000 watts	WMAY St Louis, Mo..... 100 "
WLWL New York City..... 5000 "	KGfJ Los Angeles, Calif.... 100 "
KGDM Stockton, Calif..... 250 "	KXO El Centro, Calif..... 100 "
270.1 METERS—1110 KILOCYCLES	KSMR Santa Maria, Calif.... 100 "
WRVA Richmond, Va..... 5000 watts	KWG Stockton, Calif..... 100 "
KSOO Slouxs Falls, S D..... 2000 "	KGKE Yuma, Colo..... 50 "
267.7 METERS—1120 KILOCYCLES	KGEW Fort Morgan, Colo.... 100 "
WISN Milwaukee, Wis..... 250 watts	KVOS Bellingham, Wash.... 100 "
WHAD Milwaukee, Wis..... 250 "	247.8 METERS—1210 KILOCYCLES
KFSG Los Angeles, Calif.... 500 "	WJBI Redbank, N J..... 100 watts
WDEL Wilmington, Del..... 250 "	WGBB Freeport, N Y..... 100 "
WDBO Orlando, Fla..... 500 "	WCOH Yonkers, N Y..... 100 "
WTAW College Station, Tex... 500 "	WPAW Pawtucket, R I..... 100 "
KTRH Houston, Tex..... 500 "	WDWF } Providence, R I..... 100 "
KMIC Inglewood, Calif.... 500 "	WLSI } Mansfield, Ohio..... 100 "
KFIO Spokane, Wash..... 100 "	WJW Zanesville, Ohio..... 100 "
265.3 METERS—1130 KILOCYCLES	WALR Zanesville, Ohio..... 100 "
WOV New York City..... 1000 watts	WBAX Wilkesbarre, Penn.... 100 "
WJJD Mooseheart, Ill..... 20000 "	WJBU Lewisburg, Penn.... 100 "
KSL Salt Lake City, Utah... 5000 "	WBBL Richmond, Va..... 100 "
263 METERS—1140 KILOCYCLES	WMBG Richmond, Va..... 100 "
WAPI Birmingham, Ala..... 5000 watts	WSIX Springfield, Tenn.... 100 "
KVOO Tulsa, Ok ..... 5000 "	WRBU Gastonia, N C..... 100 "
260.7 METERS—1150 KILOCYCLES	KGMP Elk City, Ok..... 100 "
WHAM Rochester, N Y..... 5000 watts	WRBB Greenville, Miss.... 250 "
	WGCM Gulfport, Miss..... 100 "
	KWEA Shreveport, La..... 100 "
	KDLR Devils Lake, N D..... 100 "
	KGCR Watertown, S D..... 100 "
	KFOR Lincoln, Neb..... 100 "
	WHBU Anderson, Ind..... 100 "
	KFVS Cape Girardeau, Mo... 100 "
	WEBQ Harrisburg, Ill..... 100 "

**247.8 METERS—1210 KILOCYCLES**

KGNO	Dodge City, Kan	100 watts
WSBC	Chicago, Ill.	100 "
WCRW	Chicago, Ill.	100 "
WEDC	Chicago, Ill.	100 "
WCBS	Springfield, Ill.	100 "
WHBF	Rock Island, Ill.	100 "
WOMT	Manitowoc, Wis.	100 "
EMJ	Fresno, Calif.	100 "
KFXM	San Bernardino, Calif.	100 "
KDFN	Casper, Wyo.	100 "

**245.8 METERS—1220 KILOCYCLES**

WCAD	Canton, N Y	500 watts
WDAE	Tampa, Fla.	1000 "
WCAE	Pittsburg, Penn.	1000 "
WREN	Lawrence, Kan.	1000 "
KFKU	Lawrence, Kan.	1000 "
KWSC	Fullman, Wash.	500 "

**243.8 METERS—1230 KILOCYCLES**

WNAC	Boston, Mass.	1000 watts
WBIS		
WPSC	State College, Penn.	500 "
WSBT	South Bend, Ind.	500 "
WFBM	Indianapolis, Ind.	1000 "
KGGM	Albuquerque, N M.	250 "
KYA	San Francisco, Calif.	1000 "
KFQD	Anchorage, Alaska.	100 "

**241.8 METERS—1240 KILOCYCLES**

WXYZ	Detroit, Mich.	1000 watts
KTAT	Fort Worth, Tex.	1000 "
WACO	Waco, Tex.	1000 "

**239.9 METERS—1250 KILOCYCLES**

WGCP	Newark, N J	250 watts
WODA	Paterson, N J	1000 "
WAAM	Newark, N J	1000 "
WDSU	New Orleans, La.	1000 "
WLB	Minneapolis, Minn.	1000 "
WGMS		
WRHM	Minneapolis, Minn.	1000 "
KFMX	Northfield, Minn.	1000 "
WCAL	Northfield, Minn.	1000 "
KFOX	Long Beach, Calif.	1000 "
KIDO	Boise, Idaho.	1000 "

**238 METERS—1260 KILOCYCLES**

WLBW	Oil City, Penn.	500 watts
KWWG	Brownsville, Tex.	500 "
WTOC	Savannah, Ga.	500 "
KRGV	Harlingen, Tex.	500 "
KOIL	Council Bluffs, Ia.	1000 "
KVOA	Tucson, Ari.	500 "

**236.1 METERS—1270 KILOCYCLES**

WEAI	Ithaca, N Y	1000 watts
WEBR	Baltimore, Md.	250 "
WASH	Grand Rapids, Mich.	500 "
WOOD	Grand Rapids, Mich.	500 "
WJDX	Jackson, Miss.	500 "
KWLC	Decorah, Iowa.	100 "
KGOA	Decorah, Iowa.	50 "
KTW	Seattle, Wash.	1000 "
KOL	Seattle, Wash.	1000 "
KFUM	Colorado Springs, Colo	1000 "

**234.4 METERS—1280 KILOCYCLES**

WCAM	Camden, N J	500 watts
WCAP	Asbury Park, N J	500 "
WOAX	Trenton, N J	500 "
WBOB	Chattanooga, Tenn.	1000 "
WRR	Dallas, Tex.	500 "
KFBB	Great Falls, Mont.	1000 "
WIBA	Madison, Wis.	500 "

**232.4 METERS—1290 KILOCYCLES**

WJAS	Pittsburg, Penn.	1000 watts
KTSA	San Antonio, Tex.	1000 "

**232.4 METERS—1290 KILOCYCLES**

KFUL	Galveston, Tex.	500 watts
WEBC	Superior, Wis.	1000 "
KDYL	Salt Lake City, Utah.	1000 "

**230.6 METERS—1300 KILOCYCLES**

WBRR	Brooklyn, N Y	1000 watts
WHAP	New York, N Y	1000 "
WEVD	New York, N Y	500 "
WHAZ	Troy, N Y	500 "
WIOD	Miami Beach, Fla.	1000 "
WMBF		
KFH	Wichita, Kan.	1000 "
WOQ	Kansas City, Mo.	1000 "
KGEF	Los Angeles, Calif.	1000 "
KTBI	Los Angeles, Calif.	1000 "
KFJR	Portland, Or.	500 "
KTRB	Portland, Or.	500 "

**228.9 METERS—1310 KILOCYCLES**

WKAV	Laconia, N H.	100 watts
WEBR	Buffalo, N Y	100 "
WMBO	Auburn, N Y	100 "
WNBH	New Bedford, Mass.	100 "
WOL	Washington, D C	100 "
WGH	Newport News, Va.	100 "
WFDF	Flint, Mich.	100 "
WHAT	Philadelphia, Penn.	100 "
WJAC	Johnstown, Penn.	100 "
WFBG	Altoona, Penn.	100 "
WGAL	Lancaster, Penn.	100 "
WSAJ	Grove City, Penn.	100 "
WBRE	Wilkesbarre, Penn.	100 "
WKBC	Birmingham, Ala.	100 "
WOBT	Union City, Tenn.	100 "
KTSL	Shreveport, La.	100 "
WSJS	Winston-Salem, N C.	100 "
KTLC	Houston, Tex.	100 "
KTSM	El Paso, Tex.	100 "
WDAH	El Paso, Tex.	100 "
KFPL	Dublin, Tex.	100 "
KFXR	Oklahoma City, Ok.	100 "
WKBS	Galesburg, Ill.	100 "
WCLS	Joliet, Ill.	100 "
WKBB	Joliet, Ill.	100 "
KWCR	Cedar Rapids, Iowa.	100 "
KFJY	Fort Dodge, Iowa.	100 "
KFGQ	Boone, Iowa.	100 "
EGFW	Ravenna, Neb.	100 "
WBOW	Terre Haute, Ind.	100 "
EGBX	St Joseph, Mo.	100 "
WIBU	Poynette, Wis.	100 "
KFBK	Sacramento, Calif.	100 "
KCRJ	Jerome, Ari.	100 "
KGCX	Wolf Point, Mont.	100 "
EGEZ	Kalispell, Mont.	100 "
KFUP	Denver, Colo.	100 "

**227.1 METERS—1320 KILOCYCLES**

WADC	Tallmadge, Ohio.	1000 watts
WSMB	New Orleans, La.	500 "
KGIQ	Twin Falls, Ida.	250 "
KID	Idaho Falls, Ida.	250 "
KGEH	Pueblo, Colo.	250 "
KGMB	Honolulu, Hawaii.	500 "

**225.4 METERS—1330 KILOCYCLES**

WDRC	New Haven, Conn.	500 watts
WSAI	Cincinnati, Ohio.	500 "
WTAQ	Eau Claire, Wis.	1000 "
KSCJ	Sloux City, Iowa.	1000 "
KGB	San Diego, Calif.	250 "

**223.7 METERS—1340 KILOCYCLES**

WSPD	Toledo, Ohio.	500 watts
WCOA	Pensacola, Fla.	500 "
KFPY	Spokane, Wash.	1000 "



<b>222.1 METERS—1850 KILOCYCLES</b>		<b>212.6 METERS—1410 KILOCYCLES</b>	
WBNY	New York, N Y..... 250 watts	WBCM	Bay City, Mich..... 500 watts
WMSG	New York, N Y..... 250 "	KGRS	Amarillo, Tex..... 1000 "
WCDA	New York, N Y..... 250 "	WDAG	Amarillo, Tex..... 250 "
WBQB	New York, N Y..... 250 "	WODX	Mobile, Ala..... 500 "
KWK	St Louis, Mo..... 1000 "	WSFA	Montgomery, Ala..... 500 "
<b>220.4 METERS—1860 KILOCYCLES</b>		KFLV	Rockford, Ill..... 500 "
WFBL	Syracuse, N Y..... 1000 watts	WHEB	Sheboygan, Wis..... 500 "
WQBC	Vicksburg, Miss..... 800 "	<b>211.1 METERS—1420 KILOCYCLES</b>	
WJKS	Gary, Ind..... 1000 "	WTBO	Cumberland, Md..... 100 watts
WGES	Chicago, Ill..... 500 "	WILM	Wilmington, Del..... 100 "
KGIR	Butte, Mont..... 500 "	WPAD	Paducah, Ky..... 100 "
KGER	Long Beach, Calif..... 1000 "	WMBC	Detroit, Mich..... 100 "
KPSN	Pasadena, Calif..... 1000 "	WHIS	Bluefield, W Va..... 100 "
WCSC	Charleston, S C..... 500 "	WFDW	Talladega, Ala..... 100 "
<b>218.8 METERS—1870 KILOCYCLES</b>		WJBO	New Orleans, La..... 100 "
WRDO	Augusta, Me..... 100 watts	KGFF	Alva, Ok..... 100 "
WLEY	Lexington, Mass..... 100 "	KTAP	San Antonio, Tex..... 100 "
WPOE	Fatchogue, N Y..... 100 "	KTUE	Houston, Tex..... 100 "
WCBM	Baltimore, Md..... 100 "	KFYO	Ablene, Tex..... 100 "
WBTM	Danville, Va..... 100 "	WSPA	Spartansburg, S C..... 100 "
WLVA	Lynchburg, Va..... 100 "	KICK	Red Oak, Iowa..... 100 "
WHBD	Mt Orab, Ohio..... 100 "	WIAS	Ottumwa, Iowa..... 100 "
WHDF	Calumet, Mich..... 100 "	WLBK	Kansas City, Kan..... 100 "
WIBM	Jackson, Mich..... 100 "	WMBH	Joplin, Mo..... 100 "
WELK	Philadelphia, Penn..... 100 "	KLFM	Minot, N D..... 100 "
WFDV	Rome, Ga..... 100 "	WEES	Evanston, Ill..... 100 "
WHBQ	Memphis, Tenn..... 100 "	WHFO	Cicero, Ill..... 100 "
WRBT	Wilmington, N C..... 100 "	KFIZ	Fond du Lac, Wis..... 100 "
KGFB	Oklahoma City, Ok..... 100 "	KFXV	Flagstaff, Ari..... 100 "
KCRC	Enid, Ok..... 100 "	KGLX	Las Vegas, Nev..... 100 "
WMBR	Tampa, Fla..... 100 "	KFQU	Holy City, Calif..... 100 "
KGOI	San Antonio, Tex..... 100 "	KGIW	Trinidad, Colo..... 100 "
KGJZ	Fort Worth, Tex..... 100 "	KGKX	Sandpoint, Ida..... 100 "
KONO	San Antonio, Tex..... 100 "	KGGC	San Francisco, Calif..... 100 "
KGKL	San Angelo, Tex..... 100 "	KXL	Portland, Or..... 100 "
KFLX	Galveston, Tex..... 100 "	KBPS	Portland, Or..... 100 "
WGL	Fort Wayne, Ind..... 100 "	KORE	Eugene, Or..... 100 "
KGDA	Mitchell, S D..... 100 "	KFQW	Seattle, Wash..... 100 "
KFJM	Grand Forks, N D..... 100 "	<b>209.7 METERS—1430 KILOCYCLES</b>	
KWKC	Kansas City, Mo..... 100 "	WHP	Harrisburg, Penn..... 500 watts
WRJN	Racine, Wis..... 100 "	WBAK	Harrisburg, Penn..... 500 "
KGAR	Tucson, Ari..... 100 "	WCAH	Columbus, Ohio..... 500 "
ER	Berkeley, Calif..... 100 "	WGBC	Memphis, Tenn..... 500 "
KZM	Hayward, Calif..... 100 "	WNBR	Memphis, Tenn..... 500 "
KOOS	Marshfield, Or..... 100 "	KGNF	North Platte, Neb..... 500 "
KVL	Seattle, Wash..... 100 "	KECA	Los Angeles, Calif..... 1000 "
KFJI	Astoria, Or..... 100 "	<b>208.2 METERS—1440 KILOCYCLES</b>	
<b>217.3 METERS—1880 KILOCYCLES</b>		WHEC	Rochester, N Y..... 500 watts
WSMK	Dayton, Ohio..... 200 watts	WABO	Rochester, N Y..... 500 "
KQV	Pittsburg, Penn..... 500 "	WOKO	Poughkeepsie, N Y..... 500 "
KSO	Clarinda, Ia..... 500 "	WCOA	Allentown, Penn..... 250 "
WRBH	LaCrosse, Wis..... 1000 "	WSAN	Allentown, Penn..... 250 "
KOH	Reno, Nev..... 500 "	WNRC	Greensboro, N C..... 500 "
<b>215.7 METERS—1390 KILOCYCLES</b>		WTAD	Quincy, Ill..... 500 "
WHK	Cleveland, Ohio..... 1000 watts	WMBD	Feoria Heights, Ill..... 500 "
KLRA	Little Rock, Ark..... 1000 "	KLS	Oakland, Calif..... 250 "
KUOA	Fayetteville, Ark..... 1000 "	<b>206.8 METERS—1450 KILOCYCLES</b>	
KOY	Phoenix, Ari..... 500 "	WBMS	Haekensack, N J..... 250 watts
<b>214.2 METERS—1400 KILOCYCLES</b>		WNJ	Newark, N J..... 250 "
WCGU	Brooklyn, N Y..... 500 watts	WHOM	Jersey City, N J..... 250 "
WSGH	Brooklyn, N Y..... 500 "	WKBO	Jersey City, N J..... 250 "
WSDA		WSAR	Fall River, Mass..... 250 "
WLTH	Brooklyn, N Y..... 500 "	WFJC	Akron, Ohio..... 500 "
WBBC	Brooklyn, N Y..... 500 "	WCSO	Springfield, Ohio..... 500 "
KOCW	Chickasha, Ok..... 250 "	WTFI	Toccoa, Ga..... 500 "
WCMA	Culver, Ind..... 500 "	KTBS	Shreveport, La..... 1000 "
WKBF	Indianapolis, Ind..... 500 "	<b>205.4 METERS—1460 KILOCYCLES</b>	
WBAA	W Lafayette, Ind..... 500 "	WJSV	Alexandria, Va..... 10000 watts
KLO	Ogden, Utah..... 500 "	KSTP	St Paul, Minn..... 10000 "
<b>212.6 METERS—1410 KILOCYCLES</b>		<b>204 METERS—1470 KILOCYCLES</b>	
WLEX	Lexington, Mass..... 500 watts	WLAC	Nashville, Tenn..... 5000 watts
WMAF	S Dartmouth, Mass..... 500 "	WTNT	Nashville, Tenn..... 5000 "
WSSH	Boston, Mass..... 500 "	KGA	Spokane, Wash..... 5000 "
WRBX	Roanoke, Va..... 250 "		

<b>202.6 METERS—1480 KILOCYCLES</b>		<b>199.9 METERS—1500 KILOCYCLES</b>	
<b>WKBW</b>	Buffalo, N Y..... 5000 watts	<b>WWRL</b>	Woodside, N Y..... 100 watts
<b>KFJF</b>	Oklahoma City, Ok.... 5000 "	<b>WMFC</b>	Lapeer, Mich..... 100 "
<b>201.2 METERS—1490 KILOCYCLES</b>		<b>WFEN</b>	Philadelphia, Penn..... 100 "
<b>WCKY</b>	Covington, Ky..... 5000 watts	<b>WMBJ</b>	Wilkinsburg, Penn..... 100 "
<b>WJAZ</b>	Mt Prospect, Ill..... 5000 "	<b>WOFI</b>	Bristol, Tenn..... 100 "
<b>WORD</b>	Chicago, Ill..... 5000 "	<b>WQDV</b>	Tupelo, Miss..... 100 "
<b>KPWF</b>	Los Angeles, Calif..... 5000 "	<b>WRDW</b>	Augusta, Ga..... 100 "
<b>199.9 METERS—1500 KILOCYCLES</b>		<b>KGFI</b>	Corpus Christi, Tex.... 100 "
<b>WMBA</b>	Newport, R I..... 100 watts	<b>KUT</b>	Austin, Tex..... 100 "
<b>WLOE</b>	Boston, Mass..... 100 "	<b>KGKB</b>	Brownwood, Tex..... 100 "
<b>WNBF</b>	Binghamton, N Y..... 100 "	<b>KGKY</b>	Scottsbluff, Neb..... 100 "
<b>WMBQ</b>	Brooklyn, N Y..... 100 "	<b>WKBV</b>	Connorsville, Ind..... 100 "
<b>WCLB</b>	Long Beach, N Y..... 100 "	<b>KPJM</b>	Prescott, Ari..... 100 "
<b>WLBX</b>	Long Island City, N Y. 100 "	<b>KDB</b>	Santa Barbara, Calif... 100 "
		<b>KREG</b>	Santa Ana, Calif..... 100 "
		<b>KUJ</b>	Long View, Wash..... 100 "

## HINTS ON TUNING SHORT WAVES

Short wave stations may not be tuned with the same ease as regular broadcasting stations. Greater care must be exercised in the manipulation of the set dial and the set volume control to pick up a program. Since most of the short wave sets are of the nonradiating type, there is no harm in the practice, and it is an advantage for the beginner to tune for stations with the set in oscillation. This condition exists if the set produces a squeal when a short wave station is intercepted.

The pitch of the squeal may be varied up or down the scale by varying the set controls and the object is to attain that point in tuning where the squeal descends in pitch until it is inaudible except if the controls are varied slightly in either direction. When this adjustment of the set has been attained the broadcast should become audible. By careful manipulation of the controls it will be possible after a little practice to gradually take the set out of oscillation without entirely losing the program. Music and voice will be less distorted when the set is operated in nonoscillating condition.

There are certain hours, day and night, which seem best for the reception of certain short waves. For example, from daybreak until about 2 P. M. stations on 14 to 20 meters will be heard best. After dark stations on these wave lengths are practically impossible to receive. From noon until 10 P. M. a great many stations in Europe, which is to the east of us, may be heard operating on 20 to 33 meters. On the other hand, stations to the west of us using similar waves will be best heard between 10 P. M. and daybreak. During the evening hours stations on 33 to 75 meters tune in readily. Darkness seems to aid reception on these waves. On waves of 80 meters and above there is less variation between daylight and night reception.

Visual broadcasting stations in the United States engaged in transmitting experimental television programs will be found on waves between 101.7 meters and 150 meters. In tuning for these stations the short wave receiver should be operated without oscillation to avoid distortion of the received image. Visual programs are audible on the loud speaker and are recognized by a characteristic vibrating note of high musical pitch. In order to make such signals visible it is necessary to instal special television receiving apparatus.

## Short Wave Broadcasting Stations of the World

Wave	Call	Location	Time
13.93	W8XK	E Pittsburg, Penn	Relays KDKA
13.95	W3XAL	Bound Brook, N J	Relays WJZ
13.95	W9XF	Downer's Grove, Ill	Irregular
13.95	W6XAL	Westminster, Calif.	Time unknown
13.98	W2XAL	Coytesville, N J	Variable
14.15	LSN	Buenos Aires, Arg	10 am-2 pm
14.55	PMB	Bandoeng, Java	Mon, Wed, Thur, Sat, 5:40-10:40 am
15.02	LSG	Buenos Aires, Arg	10 am-2 pm
15.53	VK2ME	Sydney, Australia	2 pm-5 pm
15.55	FTM	St Assise, France	10 am-2 pm
15.93	PLE	Bandoeng, Java	Tues, Fri, 5:40-10:40 am
16.11	GBU <sub>j</sub>	Rugby, Eng	6 am-2 pm
16.33	PCJ	Kootwijk, Holland	6 am-9 am
16.38	GBS	Rugby, Eng	6 am-2 pm
16.44	FRE	St Assise, France	11 am-12 m
16.52	CGA	Drummondville, Can	6 am-2 pm
16.54	GBW	Rugby, Eng	6 am-2 pm
16.57	GBK	Bodmin, Eng	6 am-2 pm
16.82	PCV	Kootwijk, Holland	6 am-9 am
16.87	W8XK	E Pittsburg, Penn	Relays KDKA
16.87	W3XAL	Bound Brook, N J	Relays WJZ
16.87	W9XAA	Chicago, Ill	Time unknown
17.12	G2GN	SS Olympic	7 am-2 pm
17.12	G2IV	SS Majestic	7 am-2 pm
18.00	LSN	Buenos Aires, Arg	2-8 pm
18.52	FZR	Salgon, Indo-China	11-12 noon
18.56	GBX	Rugby, Eng	4 pm-11 pm
18.82	PLG	Bandoeng, Java	6 am-9 am
19.56	W2XAD	Schenectady, N Y	Daily, 5:10-8 pm, Sun 2-3 pm
19.63	W2XE	Jamaica, Long Island, N Y	Relays WABC
19.67	W2XAL	Coytesville, N J	Variable
19.67	W4XAL	Westminster, Calif	Time unknown
19.72	W3XK	E Pittsburg, Penn	Wed, Sat, 7-11 am
19.93	W3XAL	Bound Brook, N J	Relays WJZ
20.71	GBW	Rugby, Eng	1 pm-4 pm
20.79	VPD	Suva, Fiji Islands	3 am-5 am
20.92	G2NM	Sonning-on-Thames, Eng	Sun, 12:30-2 pm
22.00	LSN	Buenos Aires, Arg	2 pm-5 pm
22.52	G2GN	SS Olympic	Irregular
22.52	G2IV	SS Majestic	Irregular
24.23	G2GL	SS Homeric	Afternoons, irregular
24.41	GBU	Rugby, Eng	2 pm-7 pm
24.46	FTN	St Assise, France	11 am-12 noon
24.62	GBS	Rugby, Eng	2 pm-7 pm
24.92	FZR	Salgon, Indo-China	11 am-12 noon
25.00	KIO	Kauhuku, Oahu	Irregular, 2 pm-8 pm
25.12	8RO	Rome, Italy	Irregular, tests
25.25	W8XK	E Pittsburg, Penn	Daily, 11 am-9 pm
25.34	W9XAA	Chicago, Ill	Time unknown
25.34	W2XE	Jamaica, Long Island, N Y	Relays WABC
25.36	K1XR	Manila, P I	Irregular, 1 am-9 am
25.42	W2XAL	Coytesville, N J	Variable
25.42	W9XF	Downer's Grove, Ill	Irregular
25.53	G6SW	Chelmsford, Eng	Mon to Fri, 6:30-7:30 am; 1-6 pm
25.60	W3XAL	Bound Brook, N J	Relays WJZ
25.62	CJRX	Winnipeg, Can	5:30-8:30 pm Tues, Thur. Sat 10:30
26.12	K1XR	Manila, P I	Irregular, 4 am-6 am
26.22	DHC	Nauen, Ger	Irregular, 7 pm-9 pm
26.72	IBDK	Yacht Elettra	Irregular, 3 pm-7 pm
28.00	GBP	Rugby, Eng	Irregular
28.52	VK2ME	Sydney, Australia	1 am-7 am
28.82	KES	Bolinas, Calif	Irregular, 2-8 pm
29.52	HS2PJ	Bangkok, Siam	Tues, Fri, Sun 8 am-11 am
30.15	GBU	Rugby, Eng	5 pm-11 pm
30.32	LSN	Buenos Aires, Arg	6 pm-10 pm
30.62	GBW	Rugby, Eng	5 pm-10 pm
30.88	NRH	Heredia, Costa Rica	9-10 pm
31.28	W3XAU	Byberry, Penn	Time unknown
31.32	K1XR	Manila, P I	Irregular, 2 am-9 am
31.33	PCJ	Eindhoven, Holland	Thur 1-3 and 6-10 pm. Fri 1-3 and 7-12 pm
31.34	W3XAU	Philadelphia, Penn	8 am-4 pm

## Short Wave Broadcasting Stations of the World

(Continued)

Wave	Call	Location	Time
31.35	W8XK	E Pittsburg, Penn	Relays KDKA
31.35	W1XAZ	E Springfield, Mass	Relays WBZ
31.35	W3XAL	Bound Brook, N J	Relays WJZ
31.48	W2XAF	Schenectady, N Y	Daily, 7-10 pm
32.12	CGA	Drummondville, Can	6 pm-8 am
32.42	GBK	Bodmin, Eng	6 pm-8 am
32.25	GBS	Rugby, Eng	6 pm-8 am
34.12	G2GN	SS Olympic	Irregular
34.12	G2IV	SS Majestic	Irregular
35.52	W8BN	SS Leviathan	Irregular, evenings
36.00	G2AA	Rugby, Eng	6 pm-8 am
39.72	HKF	Bogota, Colombia	9:15-11:30 pm, irregular
42.92	GBS	Rugby, Eng	6 pm-8 am
44.62	VRV	Georgetown, Brit Guiana	Wed 7:15-9 pm, Sun 5:45-9 pm
48.32	HKC	Bogota, Colombia	9:45 pm-11:30 pm
48.86	W8XK	Pittsburg, Penn	Wed, Sat, 5-11 pm
49.02	W2XE	New York	8 am-12 pm
49.18	W3XAL	Bound Brook, N J	5-6 and 10-12 pm
49.22	VE9GW	Bowmanville, Can	5:45-11 am and 3-11 pm
49.32	HS2PJ	Bangkok, Siam	6-6:30 am
49.34	W9XAA	Chicago, Ill	12-1, 9-10 and 11-12:45 pm
49.51	W8XAL	Cincinnati, O	Relays WLW
49.53	W3XAU	Philadelphia, Penn	4 pm-11 pm
49.67	W2XAL	Coytesville, N J	Variable
49.67	W9XQA	Addison, Ill	Relays WGN
49.72	W2XAL	Pointville, N J	Irregular, 9-11 pm
49.83	W9XF	Chicago, Ill	3:30-7 and 8:30 pm to 1 am
49.84	W2XBR	New York	Irregular
49.95	HRB	Tegucigalpa, Honduras	Mon, Wed, Fri, Sat 9-12 pm
52.72		Airport Stations wave	Variable
62.72	UZA	Drummondville, Can	Irregular
63.12	G2GL	SS Homeric	8 pm-10 pm
65.00	K1O	Kauhuku, Oahu	Irregular, 2 pm-8 pm
65.12	W8BN	SS Leviathan	Irregular
70.12	RA97	Khabarovsk, USSR	4 am-9 am
72.72	G2GN	SS Olympic	Irregular
72.72	G2IV	SS Majestic	Irregular
95.42		Airport stations wave	Variable
130	DDDX	SS Bremen	Irregular
130	DDDX	SS Europa	Irregular

## Visual Broadcasting Stations

2000-2100 Kilocycles (150 Meters)			2100-2200 Kilocycles (142.86 Meters)		
Call	Location	Watts	Call	Location	Watts
W2XB0	Long Island City, N Y....	500	W1XAV	Boston, Mass.....	500
W8XK	Wheaton, Md.....	5000	W8XAV	E Pittsburg, Penn.....	20000
W1OXU	Aboard Cabin Monoplane	10	W2XCW	Schenectady, N Y.....	20000
W1XY	Lawrence, Mass.....	250	2750-2850 Kilocycles (109.09 Meters)		
W2XBC	Beacon, N Y.....	100	W2XAP	Portable.....	250
W1XAE	Springfield, Mass.....	20000	W2XBA	Newark, N J.....	500
W8XAV	E Pittsburg, Penn.....	20000	W8XAV	E Pittsburg, Penn.....	20000
W9XG	W Lafayette, Ind.....	1500	W2XCR	Jersey City, N J.....	5000
W2XCD	Passaic, N J.....	5000	W2XB0	Long Island City, N Y....	500
W9XG	Chicago, Ill.....	1000	W9XAP	Chicago, Ill.....	1000
W9XAO	Chicago, Ill.....	500	2850-2950 Kilocycles (105.26 Meters)		
2100-2200 Kilocycles (142.86 Meters)			W8XK	Wheaton, Md.....	5000
W2XBS	New York City, N Y.....	5000	W2XR	Long Island City, N Y....	500
W8XAK	Bound Brook, N J.....	5000	W9XR	Downer's Grove, Ill.....	5000
W2XR	Long Island City, N Y....	500	W8XAD	Camden, N J.....	500

## Frequency-Wave Length Conversion Table

The following table gives wave frequencies in kilocycles, and the corresponding wave lengths in meters.

Kc	M	Kc	M	Kc	M	Kc	M
550	545.1	790	379.5	1030	291.1	1270	236.1
560	535.4	800	374.8	1040	288.3	1280	234.4
570	526.0	810	370.2	1050	285.5	1290	232.4
580	516.9	820	365.6	1060	282.8	1300	230.6
590	508.2	830	361.2	1070	280.2	1310	228.9
600	499.7	840	356.9	1080	277.6	1320	227.1
610	491.5	850	352.7	1090	275.1	1330	225.4
620	483.6	860	348.6	1100	272.6	1340	223.7
630	475.9	870	344.6	1110	270.1	1350	222.1
640	468.5	880	340.7	1120	267.7	1360	220.4
650	461.3	890	336.9	1130	265.3	1370	218.8
660	454.3	900	333.1	1140	263.0	1380	217.3
670	447.5	910	329.5	1150	260.7	1390	215.7
680	440.9	920	325.9	1160	258.5	1400	214.2
690	434.5	930	322.4	1170	256.3	1410	212.6
700	428.3	940	319.0	1180	254.1	1420	211.1
710	422.3	950	315.6	1190	252.0	1430	209.7
720	416.4	960	312.3	1200	249.9	1440	208.2
730	410.7	970	309.1	1210	247.8	1450	206.8
740	405.2	980	305.9	1220	245.8	1460	205.4
750	399.8	990	302.8	1230	243.8	1470	204.0
760	394.5	1000	299.8	1240	241.8	1480	202.6
770	389.4	1010	296.9	1250	239.9	1490	201.2
780	384.4	1020	293.9	1260	238.0	1500	199.9

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**BUD FISHER**—Creator of "Mutt and Jeff"  
**UNCLE DUDLEY**—New England's Most  
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