

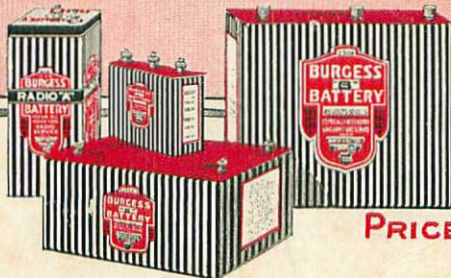


BURGESS INDEX of RADIO BROADCASTING STATIONS

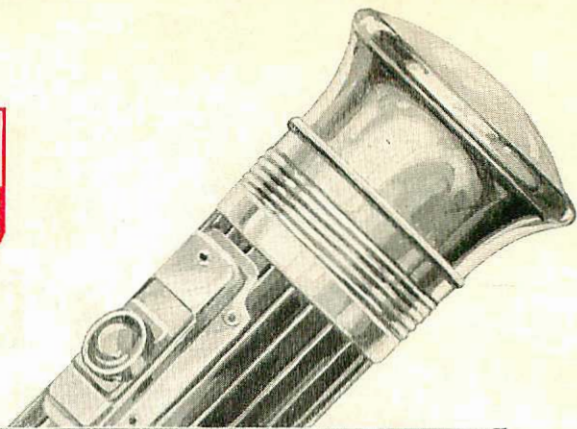
Record and Atlas

Published by

BURGESS BATTERY COMPANY



PRICE 25¢



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BURGESS BATTERIES

The unique position of esteem and confidence occupied by Burgess Radio Batteries is a natural development of the conservative policy which has characterized the manufacture, advertising and sale of Burgess products.

Of interest, perhaps, to the thinking battery buyer is the fact that no Burgess product is advertised or sold until its merit has been proven, not only by our own rigid tests, but also those of the foremost radio engineers, manufacturers and experimenters in the country.

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UNITED STATES BROADCASTING STATIONS

Call Signal	LOCATION	NAME	Wave Length	Kilo-cycles	Power (Watts)	LOG		
KDKA	E. Pittsburgh, Pa.	Westinghouse El. & Mfg. Co.	315.6	950	30000			
KDLR	Devils Lake, N. D.	Radio Electric Co.	230.6	1300	15			
KDYL	Salt Lake City, Utah	Intermountain Broadcasting Corp.	258.5	1160	100			
KELW	Burbank, Calif.	Earl L. White	228.9	1310	250			
KEX	Portland, Ore.	Western Broadcasting Co.	239.9	1250	2500			
*KFAB	Lincoln, Nebr.	Nebraska Buick Auto Co.	309.1	970	5000			
KFAD	Phoenix, Ariz.	Electrical Equip. Co. and Mc-Arthur Bros. Co.	272.6	1100	500			
*KFAU	Boise, Idaho	Indep. School Dist. of Boise	285.5	1050	4000			
KFBB	Havre, Mont.	F. A. Buttrey Co.	275.1	1090	50			
KFBC	San Diego, Calif.	W. K. Azbill and Union League Club of San Diego County	247.8	1210	100			
KFBK	Sacramento, Calif.	Kimball-Upson Co.	535.4	560	100			
KFBL	Everett, Wash.	Leese Brothers	223.7	1340	50			
KFBU	Laramie, Wyo.	Bishop N. S. Thomas	428.3	700	500			
KFCB	Phoenix, Ariz.	Nielson Radio Supply Co.	243.8	1230	125			
KFCR	Santa Barbara, Calif.	Santa Barbara Broad. Co.	211.1	1420	50			
KFDM	Beaumont, Texas	Magnolia Petroleum Co.	374.8	800	500			
KFDX	Shreveport, La.	First Baptist Church	236.1	1270	250			
KFDY	Brookings, S. D.	S. D. State College	394.5	760	500			
KFDZ	Minneapolis, Minn.	Harry O. Iverson	215.7	1390	10			
KFEC	Portland, Ore.	Meier & Frank Co.	214.2	1400	50			
KFEL	Denver, Colo.	Eugene P. O'Fallon, Inc.	247.8	1210	250			
KFEQ	St. Joseph, Mo.	Scroggin & Co., Bank	230.6	1300	1000			
KFEY	Kollogg, Idaho	Bunker Hill & Sullivan	232.4	1290	10			
KFGQ	Boone, Iowa	Boone Biblical College	209.7	1430	10			
KFH	Wichita, Kans.	Hotel Lassen	245.8	1220	500			
KFHA	Gunnison, Colo.	Western State College of Colorado	254.1	1280	50			
KFHL	Oakaloosa, Iowa	Penn College	212.6	1410	10			
KFI	Los Angeles, Calif.	Earle C. Anthony, Inc.	468.5	640	5000			
†KFIF	Portland, Ore.	Benson Poly. Institute	214.2	1400	750			
KFIO	Spokane, Wash.	North Central High School	245.8	1220	100			
KFIU	Juneau, Alaska	Alaska Electric Light & Power Company	225.4	1330	10			
NRRL	Madison, Wis.	Master Naval Reserve Control Station. Burgess Battery Company.						
9EK	Madison, Wis.	(Amateur Station.) Burgess Battery Company.						
9XH	Madison, Wis.	(Amateur Station.) Burgess Battery Company.						
4DM	Burgess Island, Fla.	(Am. Sta.) Burgess Battery Company.						

*Night-time—2000 Watts.
†1000 Watts Daytime.

Revised November 1, 1927

Call Signal	LOCATION	NAME	Wave Length	Kilo-cycles	Power (Watts)	LOG		
KFIZ	Fond du Lac, Wis.	Fond du Lac Commonwealth	267.7	1120	100			
KFJB	Marshalltown, Iowa	Marshall Electric Co.	247.8	1210	15			
†KFJF	Okla. City, Okla.	National Radio Mfg. Co.	272.6	1100	750			
KFJI	Astoria, Ore.	E. E. Marsh	249.9	1200	15			
KFJM	Grand Forks, N. D.	University of North Dakota	333.1	900	100			
KFJR	Portland, Ore.	Ashley C. Dixon & Son	282.8	1060	100			
KFJY	Fort Dodge, Iowa	Tunwall Radio Co.	239.9	1250	100			
KFJZ	Ft. Worth, Tex.	W. E. Branch	249.9	1200	50			
KFKA	Greeley, Colo.	Colo. State Teachers College	399.8	750	200			
†KFKB	Milford, Kans.	J. R. Brinkley, M. D.	241.8	1240	1500			
KFKU	Lawrence, Kans.	University of Kansas	254.1	1180	500			
KFKX	Chicago, Ill.	Westinghouse Electric & Manufacturing Company	526	570	2500			
KFKZ	Kirksville, Mo.	State Teachers College	225.4	1330	15			
KFLU	San Benito, Tex.	San Benito Radio Club	236.1	1270	15			
KFLV	Rockford, Ill.	Swedish Evan. Ch.	267.7	1120	100			
KFLX	Galveston, Tex.	George R. Clough	270.1	1110	100			
KFMR	Sioux City, Iowa	Morningside College	440.9	860	500			
KFMX	Northfield, Minn.	Carleton College	236.1	1270	500			
KFNF	Shenandoah, Iowa	Henry Field Seed Co.	270.1	1110	1000			
KFOA	Seattle, Wash.	Rhodes Dept. Store	447.5	670	1000			
KFON	Long Beach, Calif.	Nichols & Warinner, Inc.	241.8	1240	500			
KFOR	Lincoln, Nebr.	Lincoln Hatchery	217.3	1380	100			
KFOX	Omaha, Nebr.	Technical High School	258.5	1160	100			
KFOY	St. Paul, Minn.	Morris G. Goldberg	285.5	1050	250			
KFPL	Dublin, Tex.	C. C. Baxter	275.1	1090	15			
KFPM	Greenville, Tex.	New Furniture Co.	230.6	1300	15			
KFPR	Los Angeles, Calif.	Los A. Co. Forestry Dept.	232.4	1290	250			
KFPW	Cartersville, Mo. †	Lannie W. Stewart	263	1140	50			
KFPY	Spokane, Wash.	Symons Investment Co.	245.8	1220	250			
KFQA	St. Louis, Mo.	The Principia	322.4	930	50			
KFQB	Fort Worth, Tex.	Lone Star Broadcast Co.	260.7	1150	1000			
KFQD	Anchorage, Alaska	Anchorage Radio Club	344.6	870	100			
KFQU	Holy City, Calif.	W. E. Riker	249.9	1200	100			
KFQW	Seattle, Wash.	Carl F. Knierim	217.3	1380	100			
KFQZ	Hollywood, Calif.	L. E. Taft	232.4	1290	100			
KFRC	San Francisco, Calif.	Don Leo, Inc.	454.3	660	500			
KFRU	Columbia, Mo.	Stephens College	249.9	1200	500			

†1000 Watts Daytime.
‡2500 Watts Daytime.

Call Signal	LOCATION	NAME	Wave Length	Kilo-cycles	Power (Watts)	LOG		
KFSD	San Diego, Calif.	Airfan Radio Corp.	440.9	680	500			
KFSG	Los Angeles, Calif.	Echo Pk. Evang. Asso.	275.1	1090	500			
KFUL	Galveston, Tex.	Goggan & Bros. Music Co.	258.5	1160	500			
KFUM	Colo. Springs, Colo.	W. D. Corley	236.1	1270	100			
KFUO	St. Louis, Mo.	Concordia Seminary	545.1	550	500			
KFUP	Denver, Colo.	Fitzsimmons General Hosp.	227.1	1320	100			
KFUR	Ogden, Utah	Peery Building Co., Inc.	225.4	1330	500			
KFUS	Oakland, Calif.	Louis L. Sherman	256.3	1170	50			
KFUT	Salt Lake City, Utah	University of Utah	499.7	600	50			
KFVD	Venice, Calif.	W. J. and C. I. McWhinnie	208.2	1440	250			
*KFVE	St. Louis, Mo.	Benson Broadcasting Co.	234.2	1280	1000			
KFVG	Independence, Kans.	1st Meth. Epis. Church	225.4	1330	50			
KFVI	Houston, Tex.	Hdq. Troop 56th Cavalry	238	1260	50			
KFVS	C. Girardeau, Mo.	Hirsch Battery & Radio Co.	223.7	1340	50			
KFWB	Los Angeles, Calif.	Warner Bros. Pictures, Inc.	361.2	830	500			
KFWC	San Bernardino, Cal.	L. E. Wall	222.1	1350	100			
KFWF	St. Louis, Mo.	St. Louis Truth Center	214.2	1400	250			
KFWI	San Francisco, Calif.	Radio Entertainments	267.7	1120	500			
†KFWM	Oakland, Calif.	Oakland Educational Society	236.1	1270	500			
KFWO	Avalon, Calif.	Lawrence Mott	218.8	1370	250			
KFXD	Jerome, Idaho	Service Radio Co.	204	1470	50			
KFXF	Denver, Colo.	Pikes Peak Broadcasting Company	282.8	1060	250			
KFXJ	Near Edgewater, Colo.	R. C. Howell	215.7	1390	50			
KFXR	Okla. City, Okla.	G. W. Classen	223.7	1340	15			
KFXV	Flagstaff, Ariz.	Miss Mary Costigan	205.4	1460	25			
KFYO	Breckinridge, Tex.	Kirksey Bros. Battery & Electric Co.	211.1	1420	15			
KFYR	Bismarck, N. D.	Hoskins-Meyer, Inc.	239.9	1250	250			
KGA	Spokane, Wash.	Northwest Radio Service Co.	260.7	1150	2000			
KGAR	Tucson, Ariz.	Tucson Citizen	234.2	1280	100			
KGBS	Seattle, Wash.	A. C. Dailey	202.6	1480	100			
KGBU	Ketchikan, Alaska	Alaska Radio Co.	228.9	1310	500			
KGBX	St. Joseph, Mo.	Foster Hall Tire Co., Inc.	288.3	1040	100			
KGBY	Shelby, Nebr.	Dunning & Taddiken	202.6	1480	50			
KGBZ	York, Nebr.	Dr. Geo. R. Miller	212.6	1410	100			
KGCA	Decorah, Iowa	Charles Walter Greenley	247.8	1210	10			
KGCB	Okla. City, Okla.	Wallace Radio Institute	215.7	1380	50			
KGCC	Newark, Ark.	Moore Motor Co.	223.7	1340	100			

*2000 Watts Daytime.
†1000 Watts Daytime.

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Call Signal	LOCATION	NAME	Wave Length	Kilo-cycles	Power (Watts)	LOG		
KGCH	Wayno, Nebr.	Wayno Hospital	293.9	1020	250			
KGCI	San Antonio, Tex.	Liberto Radio Sales	220.4	1360	15			
KGCL	Seattle, Wash.	Wasmer & Taft	230.6	1300	50			
KGCN	Concordia, Kans.	Concordia Broadcasting Co.	208.2	1440	50			
KGCR	Brookings, S. D.	Cutler's Radio Service	208.2	1440	15			
KGCU	Mandan, N. D.	Mandan Radio Association	239.9	1250	100			
KG CX	Vida, Mont.	First State Bank	243.8	1230	10			
*KGDA	Dell Rapids, S. D.	Home Auto Co.	254.1	1180	15			
KGDE	Barrett, Minn.	Jaren Drug Co.	205.4	1460	50			
KG DJ	Cresco, Iowa	R. Rathert	202.6	1480	10			
KGDM	Stockton, Calif.	E. F. Peffer	217.3	1380	10			
KGDR	San Antonio, Tex.	Radio Engineers	202.6	1480	15			
KG DW	Humboldt, Nebr.	Frank J. Rist	206.8	1450	100			
KGDX	Shreveport, La.	Wm. Erwin Anthony	212.6	1410	250			
KG DY	Oldham, S. D.	J. Albert Loesch	206.8	1450	15			
KG EF	Los Angeles, Calif.	Trinity Methodist Church	263	1140	500			
KG EH	Eugene, Ore.	Eugene Broadcasting Station	201.2	1490	50			
KG EK	Yuma, Colo.	Boehler Electrical Equip. Co.	263	1140	10			
KG EN	El Centro, Calif.	E. R. Iroy and F. M. Bowles	225.4	1330	15			
KG EO	Grand Island, Nebr.	Hotel Yancey	205.4	1460	100			
KG EQ	Minneapolis, Minn.	Fred W. Herrmann	202.6	1480	50			
KG ER	Long Beach, Calif.	C. Merwin Dobyms	215.7	1390	100			
KG EU	Lower Lake, Calif.	L. W. Clement	227.1	1320	50			
KG EW	Fort Morgan, Colo.	City of Fort Morgan	218.8	1370	10			
KG EY	Denver, Colo.	J. W. Dietz	201.2	1490	15			
KG EZ	Kallisell, Mont.	Flathead Broadcasting Assn.	293.9	1020	100			
KG FB	Iowa City, Iowa	Albert C. Dunkel	223.7	1340	10			
KG FF	Alva, Okla.	Earl E. Hampshire	205.4	1460	25			
KG FG	Okla. City, Okla.	Full Gospel Church	215.7	1390	50			
KG FH	La Crescenta, Calif.	Frederick Robinson	223.7	1340	250			
KG FI	Fort Stockton, Tex.	M. L. Eaves	220.4	1360	15			
KG FJ	Los Angeles, Calif.	Ben. S. McGlashan	208.2	1440	100			
KG FK	Hallock, Minn.	Kittson County Enterprise	223.7	1340	50			
KG FL	Trinidad, Colo.	Trinidad Broadcasting Co.	222.1	1350	50			
KG FM	Yuba City, Calif.	Geo. W. Johnson	211.1	1420	15			
KG FN	Aneta, N. D.	Haraldson & Thingstad	199.9	1500	15			
KG FO	Terre Haute, Ind.	Brant Radio Power Co.	204	1470	100			

*Daytime only.

Call Signal	LOCATION	NAME	Wave Length	Kilo-cycles	Power (Watts)	LOG		
KGFP	Mitchell, S. D.	Mitchell Broadcast Co.	212.6	1410	10			
KGFV	Ravonna, Nebr.	Otto F. Sothman	298.9	1010	10			
†KGFY	Pierre, S. D.	Dana McNeil	254.1	1180	200			
KGGF	Picher, Okla.	Dr. D. L. Connell	206.8	1450	100			
KGGH	Cedar Grove, La.	Bates Radio & Elec. Co.	212.6	1410	50			
KGGM	Inglewood, Calif.	Jay Peters	204	1470	100			
KGHC	Slayton, Minn.	Hegstad Radio Co.	209.7	1430	15			
KGHP	Hardin, Mont.	Hardin Post No. 8 Am. Legion	263	1140	50			
KGO	Oakland, Calif.	General Electric Co.	384.4	780	5000			
KGRC	San Antonio, Tex.	Gene Roth & Co.	220.4	1360	50			
KGRS	Amarillo, Tex.	Gish Radio Service	243.8	1230	150			
KGTT	San Francisco, Calif.	Glad Tidings Tabernacle	206.8	1450	50			
KGU	Honolulu, Hawaii	Marian A. Mulrony	270.1	1110	600			
KGW	Portland, Ore.	Morning Oregonian	491.5	610	1000			
KGY	Lacey, Wash.	St. Martins College	243.8	1230	50			
KHJ	Los Angeles, Calif.	Times-Mirror Co.	405.2	740	500			
KHMC	Harlingen, Tex.	Harlingen Music Co.	261.1	1270	100			
KHQ	Spokane, Wash.	Louis Wasmer	370.2	810	1000			
KICK	Anita, Iowa	Atlantic Automobile Co.	461.3	650	100			
KJBS	San Francisco, Calif.	Brunton & Sons, Inc.	220.4	1360	50			
KJR	Seattle, Wash.	Northwest Radio Service Co.	348.6	860	2500			
KKP	Seattle, Wash.	City Harbor Dept.	265.3	1130	15			
†KLCN	Blytheville, Ark.	Daily Courier News	285.5	1110	1500			
KLDS	Independence, Mo.	Reorganized Church of Jesus Christ Lewis Irvino Thompson	270	1110	1500			
KLIT	Portland, Ore.	Lewis Irvino Thompson	206.8	1450	10			
KLS	Oakland, Calif.	Warner Bros.	245.8	1220	250			
KLX	Oakland, Calif.	Tribune Pub. Co.	508.2	580	800			
KLZ	Denver, Colo.	Reynolds Radio Co.	267.7	1120	250			
KMA	Shenandoah, Iowa	May Seed & Nursery Co.	394.5	760	100			
KMED	Medford, Ore.	W. J. Virgin	267.7	1120	50			
KM.C	Inglewood, Calif.	J. R. Fouch	223.7	1340	250			
KMJ	Fresno, Calif.	Fresno Bee	365.6	820	50			
KMMJ	Clay Center, Nebr.	M. M. Johnson Co.	228.9	1310	500			
KMO	Tacoma, Wash.	KMO, Incorporated	254.1	1180	250			
KMOX	St. Louis, Mo.	Voice of St. Louis	299.8	1000	5000			
KMTR	Los Angeles, Calif.	KMTR Radio Corp.	526	570	500			
KNRC	Santa Monica, Calif.	Clarence B. Juneau	374.8	800	500			

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Call Signal	LOCATION	NAME	Wave Length	Kilo-cycles	Power (Watts)	LOG		
KNX	Los Angeles, Calif.	L. A. Evening Express	336.9	890	500			
*KOA	Denver, Colo.	General Electric Co.	325.9	920	5000			
KOAC	Corvallis, Oregon	Oregon Agricultural College	270.1	1110	500			
KOB	State College, N. M.	N. Mex. College of Agriculture	394.5	760	5000			
KOCH	Omaha, Nebr.	Omaha Central High School	258.5	1160	250			
KOCW	Chickasha, Okla.	Oklahoma College for Women	252	1190	250			
†KOIL	Council Bluffs, Iowa	Mona Motor Oil Co.	277.6	1080	4000			
KOIN	Portland, Ore.	KOIN, Incorporated	319	940	1000			
KOMO	Seattle, Wash.	Fishers Blond Station, Inc.	305.9	980	1000			
KOW	Denver, Colo.	Olinger Corp. Bdctg.	247.8	1210	250			
KOWW	Walla Walla, Wash.	Frank A. Moore	299.8	1000	500			
KPCB	Seattle, Wash.	Pacific Coast Biscuit Co.	230.6	1300	50			
KPJM	Prescott, Ariz.	Wilburn Radio Service	214.2	1400	15			
KPLA	Los Angeles, Calif.	Pacific Development Radio Co.	211.1	1420	100			
KPNP	Muscatine, Iowa	Central Radio Co.	211.1	1420	100			
KPO	San Francisco, Calif.	Halo Bros. and The Chronicle	422.3	710	1000			
KPPC	Pasadena, Calif.	Pasadena Presby. Church	228.9	1310	50			
KPRC	Houston, Tex.	Houston Printing Co.	293.9	1020	500			
KPSN	Pasadena, Calif.	Pasadena Star-News	315.6	950	1000			
KQV	Pittsburgh, Pa.	Doubleday-Hill Electric Co.	270.1	1110	500			
KQW	San Jose, Calif.	Fred J. Hart	295.9	1010	500			
KRAC	Shreveport, La.	Caddo Radio Club	220.4	1360	50			
KRE	Berkeley, Calif.	First Cong. Church	256.3	1170	100			
KRLD	Dallas, Tex.	Dallas Radio Labs., Inc.	461.3	650	500			
KRLO	Los Angeles, Calif.	Freeman Lang and A. B. Scott	215.7	1390	250			
KRSC	Seattle, Wash.	Radio Sales Corp.	211.1	1420	50			
KSAC	Manhattan, Kans.	Kansas St. Agric. College	333.1	900	500			
KSBA	Shreveport, La.	W. C. Patterson	267.7	1120	1000			
KSCJ	Sioux City, Iowa	Sioux City Journal	243.8	1230	500			
KSD	St. Louis, Mo.	Pulitzer Publishing Co.	545.1	550	500			
KSEI	Pocatello, Idaho	KSEI Broadcasting Assn.	333.1	900	250			
KSL	Salt Lake City, Utah	Radio Service Corp. of Utah	302.8	990	1000			
KSMR	Santa Maria, Calif.	Santa Maria Valley R. R.	272.6	1100	100			
KSO	Clarinda, Iowa	Berry Seed Co.	227.1	1320	500			
KSOO	Sioux Falls, S. D.	Sioux Falls Broadcast. Assn.	209.7	1430	250			
KTAB	Oakland, Calif.	Associated Broadcasters	280.2	1070	500			
KTAP	San Antonio, Tex.	Robert B. Bridge	228.9	1310	20			

*10,000 Watts Daytime.
†2000 Watts Night-time.

Call Signal	LOCATION	NAME	Wave Length	Kilo-cycles	Power (Watts)	LOG		
KTBI	Los Angeles, Calif.	Bible Institute	288.3	1040	500			
KTBR	Portland, Ore.	M. E. Brown	282.8	1060	50			
KTBS	Hot Springs, Ark.	New Arlington Hotel Co.	384.4	780	1000			
†KTNT	Muscatine, Iowa	Norman Baker	256.3	1170	3500			
KTSA	San Antonio, Tex.	Alamo Brdg. Co.	265.3	1130	2000			
KTUE	Houston, Tex.	Uhalt Electric	212.6	1410	5			
KTW	Seattle, Wash.	First Presbyterian Church	394.5	760	1000			
KUJ	Seattle, Wash.	Puget Sound Radio Brdc. Co.	199.9	1500	10			
KUOA	Fayetteville, Ark.	University of Arkansas	296.9	1010	500			
KUOM	Missoula, Mont.	University of Montana	461.3	650	500			
KUSD	Vermillion, S. D.	University of South Dakota	483.6	620	250			
KUT	Austin, Tex.	University of Texas	232.4	1290	500			
KVI	Tacoma, Wash.	Puget Sound Broadcasting Co.	234.2	1280	05			
KVOO	Bristow, Okla.	Southwestern Sales Corp.	348.6	860	1000			
KVOS	Seattle, Wash.	L. L. Jackson and L. Kessler	209.7	1430	50			
KWBS	Portland, Ore.	Schaeffer Mfg. Co.	199.9	1500	15			
KWCR	Cedar Rapids, Iowa	H. F. Paar	239.9	1250	250			
KWG	Stockton, Calif.	Portable Wire Tele. Co.	344.6	870	50			
KWJJ	Portland, Ore.	KWJJ Broadcast Studios	228.9	1310	50			
KWKC	Kansas City, Mo.	Wilson Duncan Studios	222.1	1350	100			
KWKH	Shreveport, La.	W. K. Henderson	394.5	760	1000			
KWLC	Decorah, Iowa	Luther College	247.8	1210	50			
KWSC	Pullman, Wash.	State College of Washington	394.5	760	500			
KWTC	Santa Ana, Calif.	Dr. John Wesley Hancock	352.7	850	5			
KWUC	Lomara, Iowa	Western Union College	243.8	1230	1500			
KWWG	Brownsville, Tex.	Chamber of Commerce	277.6	1080	500			
KXL	Portland, Ore.	KXL Broadcasters	220.4	1360	50			
KXRO	Aberdeen, Wash.	KXRO, Inc.	227.1	1320	50			
KYA	San Francisco, Calif.	Pacific Broadcasting Corp.	309.1	970	500			
KYW	Chicago, Ill.	Westinghouse El. & Mfg. Co.	526	570	2500			
KZM	Oakland, Calif.	Proston D. Allen	245.8	1220	100			
WAAD	Cincinnati, Ohio	Ohio Mechanics Institute	267.7	1120	25			
WAAF	Chicago, Ill.	Chicago Daily Drivers Journal	389.4	770	500			
WAAM	Newark, N. J.	Isalah R. Nelson	348.6	860	500			
WAAT	Jersey City, N. J.	Frank B. Bremer	245.8	1220	300			
WAAW	Omaha, Nebr.	Omaha Grain Exchange	440.9	680	500			
WABC	Richmond Hills, N. Y.	Atlantic Broadcasting Corp.	325.9	920	2500			

†5000 Watts Daytime.

Call Signal	LOCATION	NAME	Wave Length	Kilo-cycles	Power (Watts)	LOG		
WABF	Pringleboro (Kings-ton), Pa.	Markie Broadcasting Corp.	205.4	1460	250			
WABI	Bangor, Mo.	First Univ. Church	389.4	770	100			
WABQ	Philadelphia, Pa.	Keystone Broadcasting Co.	223.7	1340	500			
WABW	Wooster, Ohio	College of Wooster	247.8	1210	50			
WABY	Philadelphia, Pa.	John Magaldi, Jr.	247.8	1210	50			
WABZ	New Orleans, La.	Coliseum Pl. Bapt. Ch.	247.8	1210	50			
WADC	Akron, Ohio	Allen T. Simmons	296.9	1010	500			
WAFD	Detroit, Mich.	Albert B. Parfet Co.	230.6	1300	100			
WAGM	Royal Oak, Mich.	Robert L. Miller	225.4	1330	50			
WAIT	Taunton, Mass.	A. H. Waite & Co.	214.2	1400	10			
WAIU	Columbus, Ohio	American Ins. Union	282.8	1060	5000			
WAIZ	Appleton, Wis.	Irving Zuelke Music Studio	227.1	1320	100			
WALK	Bothayres, Pa. (portable)	Albert A. Walker	201.2	1490	50			
WAMD	Minneapolis, Minn.	Radisson Radio Corp.	225.4	1330	500			
WAPI	Auburn, Ala.	Ala. Polytechnic Institute	325.9	820	1000			
WARS	Brooklyn, N. Y.	Amateur Radio Specialty Co.	227.1	1320	500			
WASH	Grand Rapids, Mich.	Baxter Laundry Co.	256.3	1170	250			
WATT	Boston, Mass. (portable)	Edison El. Ill. Co.	201.2	1490	100			
WBAA	W. Lafayette, Ind.	Purdue University	272.6	1100	500			
WBAK	Harrisburg, Pa.	Pennsylvania State Police	299.8	1000	500			
WBAL	Baltimore, Md.	Cons. Gas & Elec. Co.	285.5	1050	3000			
WBAO	Decatur, Ill.	Jajos Milliken University	267.7	1120	100			
WBAP	Fort Worth, Tex.	Carter Publications, Inc.	499.7	600	1500			
WBAW	Nashville, Tenn.	Waldrom Drug Co.	247.8	1210	100			
WBAX	Wilkes-Barre, Pa.	John H. Stenger, Jr.	249.9	1200	100			
WBBC	Brooklyn, N. Y.	Brooklyn Broadcasting Corp.	227.1	1320	500			
WBBL	Richmond, Va.	Grace Covenant Pres. Ch.	247.8	1210	100			
WBBM	Chicago, Ill.	Atlas Investment Co.	389.4	770	1000			
WBBP	Potoskey, Mich.	Potoskey High School	239.9	1250	100			
WBBR	Rossville, N. Y.	Peoples Pulpit Association	256.3	1160	1000			
WBBW	Norfolk, Va.	Ruffner Junior High School	236.1	1270	50			
WBBY	Charleston, S. C.	Washington Lt. Infantry	499.7	600	75			
WBBZ	Chicago, Ill.	C. L. Carroll (portable)	204	1470	100			
WBCN	Chicago, Ill.	Great Lakes Broadcasting Co.	288.3	1040	250			
WBES	Takoma Park, Md.	Bliss Electrical School	265.3	1130	100			
WBET	Medford, Mass.	Tuft's College	288.3	1040	500			
*WBIS	Boston, Mass.	The Shepard Stores (combined with WNAC)	302.8	990	100			

*1000 Watts Daytime

Call Signal	LOCATION	NAME	Wave Length	Kilo-cycles	Power (Watts)	LOG		
WBKN	Brooklyn, N. Y.	Arthur Fasco	267.7	1120	100			
WBMH	Detroit, Mich.	Braun's Music House	211.1	1420	100			
WBMS	Union City, N. J.	Geo. Julius Schoworer	267.7	1120	100			
WBNY	New York, N. Y.	Baruchrome Corp.	236.1	1270	250			
WBOQ	Richmond Hills, N. Y.	Atlantic Broadcasting Corp.	325.9	920	500			
WBRC	Birmingham, Ala.	Birmingham Broadcasting Co.	243.8	1230	250			
WBRE	Wilkes-Barre, Pa.	Baltimore Radio Exchange	249.9	1200	100			
WBRL	Tilton, N. H.	Booth Radio Laboratories	232.4	1290	500			
WBRS	Brooklyn, N. Y.	Universal Radio Mfg. Co.	211.1	1420	100			
WBSO	Wellesley Hills, Mass.	Babson's Statistical Organization	384.4	780	100			
*WBT	Charlotte, N. C.	C. C. Coddington	258.5	1160	500			
WBZ	Springfield, Mass.	Westinghouse El. & Mfg. Co.	333.1	9001	5000			
WBZA	Boston, Mass.	Westinghouse El. & Mfg. Co.	333.1	900	500			
WCAC	Mansfield, Conn.	Conn. Agricultural Colloge.	535.4	560	500			
WCAD	Canton, N. Y.	St. Lawrence University	243.8	1230	500			
WCAE	Pittsburgh, Pa.	Kaufmann & Baer Co.	516.9	580	500			
WCAH	Columbus, Ohio	Entrekin Electric Co.	234.2	1280	250			
WCAJ	Lincoln, Nebr.	Nebr. Wesleyan University	379.5	790	500			
WCAL	Northfield, Minn.	St. Olaf Colloge	236.1	1270	500			
WCAM	Camden, N. J.	City of Camden	223.7	1340	500			
WCAO	Baltimore, Md.	Monumental Radio, Inc.	384.4	780	250			
WCAT	Rapid City, S. D.	State School of Mines	247.8	1210	100			
WCAU	Philadelphia, Pa.	Universal Broadcasting Co.	260	1150	500			
WCAX	Burlington, Vt.	University of Vermont	254.1	1180	100			
WCAZ	Carthage, Ill.	Carthage Colloge	340.7	880	50			
WCBA	Allentown, Pa.	Charles W. Heimbach	222.1	1350	100			
WCBD	Zion, Ill.	Wilbur G. Voliva	344.6	870	5000			
WCBE	New Orleans, La.	Uhalt Radio Co.	227.1	1320	5			
WCBM	Baltimore, Md.	Hotel Chateau	384.4	780	100			
WCBR	Providence, R. I.	Charles H. Meester	201.2	1490	100			
WCBS	(portable) Springfield, Ill.	H. L. Dowling & C. H. Meester	209.7	1430	250			
†WCCO	St. Paul-Minneapolis	Washburn-Crosby Co.	405.2	740	5000			
WCDA	Cliffside, N. J.	Italian Broadcasting Co.	211.1	1420	250			
WCFL	Chicago, Ill.	Chicago Federation of Labor	483.6	620	1500			
WCGU	Coney Island, N. Y.	Chas. G. Unger	218.8	1370	500			
WCLO	Camp Lake, Wis.	C. E. Whitmore	227.1	1320	100			
WCLS	Joliet, Ill.	WCLS, Inc.	215.7	1390	150			

*1000 Watts Daytime.

†7500 Watts Daytime.

Call Signal.	LOCATION	NAME	Wave Length	Kilo-cycles	Power (Watts)	LOG		
WCMA	Culver, Ind.	Culver Military Academy	258.5	1160	250			
WCOA	Pensacola, Fla.	City of Pensacola	249.9	1200	500			
WCOC	Columbus, Miss.	Crystal Oil Co.	230.6	1300	100			
WCOT	Olneyville, R. I.	Jacob Conn.	225.4	1330	50			
WCRW	Chicago, Ill.	Clinton R. White	223.7	1340	500			
WCSH	Portland, Me.	Congress Square Hotel Co.	483.6	620	500			
WCSS	Springfield, Ohio	Wittenberg College	256.3	1170	500			
WCWK	Ft. Wayne, Ind.	Chester W. Keen	214.2	1400	500			
WCWS	Danbury, Conn.	Danbury Broadcasting Co.	265.3	1130	100			
WCX	Detroit, Mich.	Station WJR, Inc., & Detroit Fr. Fr. (combined with WJR)	440.9	680	5000			
WDAD	Nashville, Tenn.	Dad's Auto Access. (Also uses WLAC)	225.4	1330	500			
WDAE	Tampa, Fla.	Daily Times	267.7	1120	500			
WDAF	Kansas City, Mo.	Kansas City Star	370.2	810	1000			
WDAG	Amarillo, Tex.	J. Laurance Martin	263	1140	250			
WDAH	El Paso, Tex.	Trinity Methodist Church	234.2	1280	100			
WDAY	Fargo, N. D.	Radio Equipment Corp.	361.2	830	250			
WDBJ	Roanoke, Va.	Wayland Electrical Corp.	230.6	1300	250			
WDBO	Winter Park, Fla.	Rollins College	288.3	1040	500			
WDEL	Wilmington, Dela.	Wilmington Elec. Spec. Co.	296.9	1010	100			
WDGY	Minneapolis, Minn.	Dr. George W. Young	260.7	1150	500			
WDOD	Chattanooga, Tenn.	Chattanooga Radio Co.	245.8	1220	500			
WDRC	New Haven, Conn.	Doolittle Radio Corporation	275.1	1090	250			
WDWF	Cranston, R. I.	Dutree W. Flint, Inc. (Combined with WLSI)	257.1	1090	500			
WDWM	Asbury Pk., N. J.	Radio Industries Broadcast Co.	239.9	1250	500			
*WDZ	Tuscola, Ill.	James L. Bush	277.6	1080	100			
WEAF	New York, N. Y.	Nat'l Broadcasting Co., Inc.	491.5	610	5000			
WEAM	N. Plainfield, N. J.	Borough of N. Plainfield	263	1140	250			
WEAN	Providence, R. I.	Shepard Co.	319	940	500			
WEAO	Columbus, Ohio	Ohio State University	282.8	1060	750			
WEAR	Cleveland, Ohio	Willard Storage Battery Co.	399.8	750	1000			
WEBC	Superior, Wis.	Head of the Lakes Bdctg. Co.	241.8	1240	250			
WEBE	Cambridge, Ohio	Roy W. Waller	247.8	1210	10			
WEBH	Chicago, Ill.	Edgewater Beach Hotel	365.6	820	2000			
WEBJ	New York, N. Y.	Third Avenue Railway Co.	256.3	1170	500			
WEBQ	Harrisburg, Ill.	Tato Radio Co.	223.7	1340	15			
WEBR	Buffalo, N. Y.	H. H. Howell	241.8	1240	200			
WEBW	Beloit, Wis.	Beloit College	258.5	1160	500			

*Daytime Only.

Call Signal	LOCATION	NAME	Wave Length	Kilo-cycles	Power (Watts)	LOG		
WEDC	Chicago, Ill.	Emil Denmark Broadcasting Station	241.8	1240	500			
WEEL	Boston, Mass.	Edison El. Ill. Co.	365.6	820	500			
WEHS	Evanston, Ill.	A. T. Becker	215.7	1390	100			
WEMC	Berrien Springs, Mich.	Emmanuel Miss. College	483.6	620	1000			
WENR	Chicago, Ill.	Commonwealth Edison Co.	288.3	1040	500			
WEPS	Gloucester, Mass.	Matheson Radio Co., Inc.	296.9	1010	100			
WFVD	Woodhaven, N. Y.	Debs Memorial Fund	245.8	1220	500			
WEW	St. Louis, Mo.	St. Louis University	352.7	850	1000			
WFAA	Dallas, Texas	Dallas News & Dallas Journal	499.7	600	500			
WFAM	St. Cloud, Minn.	Times Publishing Co.	252	1190	10			
WFBC	Knoxville, Tenn.	First Baptist Church	234.2	1280	50			
WFBE	Cincinnati, Ohio	Garfield Place Hotel Co.	245.8	1220	250			
WFBG	Altoona, Pa.	William F. Gable Co.	280.2	1070	100			
WFBJ	Collegeville, Minn.	St. John's University	272.6	1100	100			
WFBY	Syracuse, N. Y.	The Onondaga Co.	258.5	1160	250			
WFBM	Indianapolis, Ind.	Indianapolis Power & Light Co.	275.1	1090	250			
WFBZ	Baltimore, Md.	5th Inf. Md. Natl. Guard	275.1	1090	100			
WFCI	Galesburg, Ill.	Knox College	247.8	1210	50			
WFCJ	Pawtucket, R. I.	Frank Crook, Inc.	241.8	1240	50			
WFDL	Flint, Mich.	Frank D. Fallain	272.6	1100	100			
WFI	Philadelphia, Pa.	Strawbridge & Clothier	405.2	740	500			
*WFIW	Hopkinsville, Ky.	The Acme Mills, Inc.	280.2	1070	500			
WFKB	Chicago, Ill.	Francis K. Bridgeman, Inc.	223.7	1340	500			
WFKD	Frankford, Pa.	Foulkrod Radio Eng. Co.	247.8	1210	50			
WGAL	Lancaster, Pa.	Lan. El. Sup. Co.	252	1190	15			
WGBB	Freeport, N. Y.	Harry H. Carman	245.8	1220	400			
WGBC	Memphis, Tenn.	First Baptist Church	277.6	1080	15			
WGBF	Evansville, Ind.	Finke Furniture Co.	236.1	1270	250			
WGBI	Scranton, Pa.	Scranton Broadcasters, Inc.	230.6	1300	250			
WGBS	Astoria, L. I., N. Y.	Gimbel Bros.	348.6	860	500			
WGCP	Newark, N. J.	May Radio Broadcast Corp.	280.2	1070	500			
WGES	Chicago, Ill.	Oak Leaves Broadcasting Corp.	241.8	1240	500			
WGHP	Mt. Clemens, Mich.	George H. Phelps	319	940	750			
WGL	Secaucus, N. J.	International Broadcasting Corp.	293.9	1020	500			
WGM	Jeanette, Pa.	Verno & Elton Spencer	208.2	1440	50			
WGMU	New York City.	A. H. Grebe & Co.	201.2	1490	100			
WGN	Chicago, Ill.	The Chicago Tribune	305.8	980	15000			

*1000 Watts Daytime.

†Discontinued until Sept. 21, 1927.

‡1000 Watts 7:00 a. m. to 1:00 p. m.

Call Signal	LOCATION	NAME	Wave Length	Kilo-cycles	Power (Watts)	LOG		
WGR	Buffalo, N. Y.	Federal Tel. Mfg. Co.	302.8	990	750			
WGST	Atlanta, Ga.	Georgia School of Technology	270.1	1110	500			
WGWB	Milwaukee, Wis.	Radiocast Corp. of Wis.	218.8	1370	500			
WGY	Schenectady, N. Y.	General Electric Co.	379.5	790	30000			
WHA	Madison, Wis.	University of Wisconsin	333.1	900	750			
WHAD	Milwaukee, Wis.	Marquette University	270.1	1110	500			
WHAM	Rochester, N. Y.	Stromberg Carlson Co.	277.6	1080	500			
WHAP	New York, N. Y.	Wm. Taylor Finance Corp.	236.1	1270	1000			
WHAR	Atlantic City, N. J.	F. P. Cooks Sons	272.6	1100	750			
WHAS	Louisville, Ky.	Courier-Journal Times	461.3	650	500			
WHAZ	Troy, N. Y.	Rensselaer Poly. Institute	416.4	720	500			
WHB	Kansas City, Mo.	Sweeney School Co.	336.9	890	500			
WHBA	Oil City, Pa.	C. C. Shaffer	260.7	1150	10			
WHBC	Canton, Ohio	Rev. E. P. Graham	236.1	1270	10			
WHBD	Bellefontaine, Ohio	Chamber of Commerce	222.1	1350	100			
WHBF	Rock Island, Ill.	Beardsley Specialty Co.	222.1	1350	100			
WHBL	Chicago, Ill. (port.)	C. L. Carroll	204	1470	100			
WHBM	Chicago, Ill. (port.)	C. L. Carroll	201.2	1490	100			
WHBN	St. Petersburg, Fla.	1st Ave. Methodist Church	296.9	1010	10			
WHBP	Johnstown, Pa.	Johnstown Auto Co.	228.9	1310	250			
WHBQ	Memphis, Tenn.	WHBQ, Inc.	232.4	1290	100			
WHBU	Anderson, Ind.	Citizens Bank	220.4	1360	15			
WHBV	Philadelphia, Pa.	D. R. Klenzl's	220.4	1360	50			
WHBY	West De Pere, Wis.	St. Norbert's College	249.9	1200	50			
WHDI	Minneapolis, Minn.	Dunwoody Industrial Inst.	245.8	1220	500			
WHEC	Rochester, N. Y.	Hickson Electric Co.	254.1	1180	500			
WHFC	Chicago, Ill.	Triangle Broadcasters	215.7	1390	200			
*WHK	Cleveland, Ohio	The Radio Air Service Corp.	265.3	1130	500			
WHN	New York, N. Y.	George Schubel	394.5	760	500			
WHO	Des Moines, Iowa	Bankers Life Co.	535.4	560	5000			
WHPP	New York City	Bronx Broadcasting Co.	206.8	1450	10			
WHT	Deerfield, Ill.	Radiophone B'c'g Corp.	416.4	720	5000			
WIAD	Philadelphia, Pa.	Howard R. Miller	288.3	1040	100			
WIAS	Burlington, Iowa	Home Electric Co.	322.4	930	100			
WIBA	Madison, Wis.	Capital Times-Strand Theatre	239.9	1250	100			
†WIBG	Elkin's Park, Pa.	St. Paul's Prot. Epis. Church	440.9	680	50			
WIBI	Flushing, N. Y.	Frederick B. Zittell, Jr.	267.7	1120	100			

*1000 Watts Daytime.

†Sundays Daytime Only.

Call Signal	LOCATION	NAME	Wave Length	Kilo-cycles	Power (Watts)	LOG		
WIBJ	Chicago, Ill. (port.)	C. L. Carrell	201.2	1490	100			
WIBM	Chicago, Ill. (port.)	C. L. Carrell	201.2	1490	100			
WIBO	Chicago, Ill.	WIBO Broadcasters, Inc.	416.4	720	500			
WIBR	Stouboville, Ohio	Thurman A. Owings	249.9	1200	50			
WIBS	Elizabeth, N. J. (portable)	Thomas F. Hunter	204	1470	150			
WIBU	Poynetto, Wis.	The Electric Farm,	217.3	1380	20			
WIBW	Chicago, Ill.	C. L. Carrell	204	1470	100			
WIBX	Utica, N. Y.	WIBX, Inc.	238	1260	150			
WIBZ	Montgomery, Ala.	A. D. Trum	230.6	1300	15			
WICC	Bridgeport, Conn.	Bridgeport Broadcasting Station	265.3	1130	500			
WIL	St. Louis, Mo.	St. Louis Star and Benson Radio Co.	258.5	1160	250			
WIOD	Miami Beach, Fla.	Carl G. Fisher Co.	247.8	1210	1000			
WIP	Philadelphia, Pa.	Gimbel Bros.	508.2	590	500			
WJAD	Waco, Tex.	Jackson Radio Eng. Labs.	333.1	900	500			
*WJAG	Norfolk, Nebr.	Daily News	258.5	1050	250			
WJAK	Kokomo, Ind.	Kokomo Tribune	234.2	1280	50			
WJAM	Cedar Rapids, Iowa	D. M. Porham	239.9	1250	250			
WJAR	Providence, R. I.	The Outlet Co.	374.8	800	500			
WJAS	Pittsburgh, Pa.	Pitts. Ra. Supply House	270.1	1110	500			
WJAX	Jacksonville, Fla.	City of Jacksonville	336.9	890	1000			
WJAY	Cleveland, Ohio	Cleveland Radio Broad. Corp.	227.1	1320	500			
WJAZ	Mt. Prospect, Ill.	Zenith Radio Corporation	263	1140	5000			
WJBA	Joliet, Ill.	D. H. Lentz, Jr.	322.4	930	50			
WJBB	St. Petersburg, Fla.	Financial Journal	344.6	870	250			
WJBC	La Salle, Ill.	Hummer Furniture Co.	227.1	1320	100			
WJBI	Red Bank, N. J.	Robert S. Johnson	263	1140	250			
WJBK	Ypsilanti, Mich.	Ernest F. Goodwin	220.4	1360	15			
WJBL	Decatur, Ill.	Gushard Dry Goods Co.	212.6	1410	250			
WJBO	New Orleans, La.	Valdemar Jensen	263	1140	100			
WJBT	Chicago, Ill.	John S. Boyd	389.4	770	500			
WJBU	Lewisburg, Pa.	Bucknell University	214.2	1400	100			
WJBW	New Orleans, La.	C. Carlson, Jr.	238	1260	30			
WJBY	Gadsden, Ala.	Electric Construction Co.	234.2	1280	50			
WJBZ	Chicago Heights, Ill.	Roland G. Pamler	208.2	1440	100			
WJJD	Mooseheart, Ill.	Supreme Lodge, L. O. of M.	365.6	820	1000			
WJKS	Gary, Ind.	Johnson Kennedy Radio Corp.	232.4	1290	500			
WJPW	Aashtabula, Ohio	J. P. Wilson	208.2	1440	30			

* 500 Watts Daytime.

Call Signal	LOCATION	NAME	Wave Length	Kilo-cycles	Power (Watts)	LOG	
WJR	Pontiac, Mich.	Station WJR, Inc., & Detroit Fr. Pr. (combined with WCX)	440.9	680	5000		
WJZ	Bound Brook, N. J.	Radio Corp. of America	454.3	660	30000		
WKAQ	San Juan, P. R.	Radio Corp. of Porto Rico	340.7	880	500		
†WKAR	E. Lansing, Mich.	Mich. State College.	285.5	1050	500		
WKAV	Laconia, N. H.	Laconia Radio Club (port.)	223.7	1340	50		
WKBB	Joliet, Ill.	Sanders Brothers	215.7	1390	150		
WKBC	Birmingham, Ala.	H. L. Ansley	218.8	1370	10		
WKBE	Wobster, Mass.	K. & B. Electric Co.	228.9	1310	100		
WKBF	Indianapolis, Ind.	Noble B. Watson	252	1190	250		
WKBG	Chicago, Ill. (port.)	C. L. Carroll	201.2	1490	100		
WKBH	LaCrosse, Wis.	Calloway Music Co.	220.4	1360	500		
WKBI	Chicago, Ill.	Fred L. Schoenwolf	322.4	930	50		
WKBL	Monroe, Mich.	Monrona Radio Mfg. Co.	205.4	1460	15		
WKBN	Youngstown, Ohio	Radio Electric Service Co.	214.2	1400	50		
WKBO	Jersey City, N. J.	Camith Corporation	218.8	1370	500		
WKBP	Battle Creek, Mich.	Battle Creek Enquirer	212.6	1410	50		
WKBQ	New York City	Starlight Amusement Park	218.8	1370	500		
WKBS	Galesburg, Ill.	Permill & Nelson	217.3	1380	100		
WKBT	New Orleans, La.	First Baptist Church	252	1190	50		
WKBV	Brookville, Ind.	Knox Battery & Elec. Co.	217.3	1380	100		
WKBW	Buffalo, N. Y.	Churchill Evangelistic Assn., Inc.	217.3	1380	500		
WKBZ	Ludington, Mich.	Karl L. Ashbacher	199.9	1500	15		
WKDR	Kenosha, Wis.	Edward A. Dato	322.4	930	15		
WKEN	Kenmore, N. Y.	WKEN, Inc.	204	1470	250		
WKJC	Lancaster, Pa.	Kirk Johnson & Co.	252	1190	50		
WKRC	Cincinnati, Ohio	Kodel Radio Corporation	245.8	1220	250		
WKY	Okla. City, Okla.	E. Hull & H. Richard	288.3	1040	150		
WLAC	Nashville, Tenn.	Dad's Auto Acces.	225.4	1330	500		
WLAP	Louisville, Ky.	Va. Ave. Baptist Church	267.7	1120	30		
WLB	Minneapolis, Minn.	University of Minnesota	245.8	1220	500		
WLBC	Muncie, Ind.	D. A. Burton	209.7	1430	50		
WLBF	Kansas City, Mo.	Everett L. Dillard	209.7	1430	50		
WLBG	Petersburg, Va.	R. A. Gamble	214.2	1400	100		
WLBH	Farmingdale, N. Y.	Joseph J. Lombardi	232.4	1290	30		
WLBI	East Wenona, Ill.	Aloysius Yarc	238	1260	250		
WLBL	Stevens Point, Wis.	Wis. Depart. of Markots	333.1	900	1000		
WLBM	Boston, Mass.	Browning Drake Corp.	230.6	1300	50		

†1000 Watts Night-time.

Call Signal	LOCATION	NAME	Wave Length	Kilo-cycles	Power (Watts)	LOG		
WLBN	La Prairie, Ill. (portable)	Wm. Everett Hiller	204	1470	50			
WLBO	Galesburg, Ill.	Frederick Trebbe, Jr.	217.3	1380	100			
WLBQ	Atwood, Ill.	E. Dale Trout	202.6	1480	25			
WLBR	Rockford, Ill.	Rockford Brdg. Co.	322.4	930	15			
WLBT	Crown Point, Ind.	Harold Wendoll	322.4	930	50			
WLBV	Mansfield, Ohio	John Weimer & D. A. Snick	206.8	1450	50			
WLBW	Oil City, Pa.	Petroleum Telephone Co.	293.9	1020	500			
WLBX	Long Island City, N. Y.	John N. Brahy	204	1470	250			
WLBZ	Iron Mountain, Mich.	Aimone Electric Co.	209.7	1430	50			
WLBI	Dover-Foxcroft, Me.	Thompson K. Guernsey	208.2	1440	250			
WLBI	Ithaca, N. Y.	Lutheran Assn. of Ithaca	247.8	1210	50			
WLEX	Lexington, Mass.	J. Smith Dodge	215.7	1390	5			
WLBI	Elgin, Ill.	Liberty Magazine	305.9	980	500			
WLIT	Philadelphia, Pa.	Lit Brothers	405.2	740	500			
WLS	Crete, Ill.	Sears, Roebuck & Co.	344.6	870	5000			
WLSI	Cranston, R. I.	Dutee W. Flint	384.4	780	500			
WLTS	Chicago, Ill.	Lane Technical High School	483.6	620	100			
WLW	Harrison, Ohio	Crosley Radio Corporation	428.3	700	5000			
WLWL	New York, N. Y.	Paulist Fathers	370.2	810	1000			
WMAC	Cazenovia, N. Y.	Clive B. Merodith	225.4	1330	500			
WMAF	S. Dartmouth, Mass.	Round Hills Radio Corp.	428.3	700	500			
WMAK	Lockport, N. Y.	Norton Laboratories	545.1	550	750			
WMAL	Washington, D. C.	M. A. Leese Co.	241.8	1240	250			
WMAN	Columbus, Ohio	Heskett Radio Station	234.2	1280	50			
WMAQ	Chicago, Ill.	The Chicago Daily News	447.5	670	1000			
WMAY	St. Louis, Mo.	Kingshighway Presby. Ch.	247.8	1210	100			
WMAZ	Macon, Ga.	Mercer University	270.1	1110	500			
WMBA	Newport, R. I. (portable)	LeRoy Joseph Beebe	204	1470	100			
WMBB	Chicago, Ill.	Amer. Bond & Mtg. Co.	252	1190	500			
WMBG	Detroit, Mich.	Mich. Broadcasting Co.	243.8	1230	100			
WMBD	Peoria Heights, Ill.	Peoria Heights Radio Lab.	205.4	1460	250			
WMBE	St. Paul, Minn.	Dr. C. S. Stevens	220.2	1360	10			
WMBF	Miami Beach, Fla.	Fleetwood Hotel Corp.	384.4	780	500			
WMBG	Richmond, Va.	Havens & Martin	205.8	1450	15			
WMBH	Joplin, Mo.	Edwin D. Aber	204	1470	100			
WMBI	Chicago, Ill.	Moody Bible Inst.	263	1140	500			
WMBJ	Monesson, Pa.	Wm. Roy McShaffrey	232.4	1290	50			

Call Signal	LOCATION	NAME	Wave Length	Kilo-cycles	Power (Watts)	LOG		
WMBL	Lakeland, Fla.	Bonford Radio Studios	228.9	1310	50			
WMBM	Memphis, Tenn.	Seventh Day Adventist Ch.	209.7	1430	10			
WMBO	Auburn, N. Y.	Radio Service Laboratories	220.4	1360	100			
WMBQ	Brooklyn, N. Y.	Paul J. Gollhofer	204	1470 $\frac{1}{2}$	100			
WMBR	Tampa, Fla.	Premier Electric Co.	252	1190	100			
WMBT	Harrisburg, Pa.	Mack's Battery Co.	234.2	1280	250			
WMBW	Youngstown, Ohio	Youngstown Broadcasting Co.	214.2	1400	50			
WMC	Memphis, Tenn.	Commercial Appeal	516.9	580	500			
WMCA	New York City	Greeley Square Hotel Co.	370.2	810	500			
WMES	Boston, Mass.	Mass. Educational Society	211.1	1420	100			
WMPC	Lapeer, Mich.	1st Meth. Prot. Church	234.2	1280	30			
WMRJ	Jamaica, N. Y.	Peter J. Prinz	205.8	1450	10			
WMSG	New York, N. Y.	Madison Sq. Garden Broad- casting Co.	236.1	1270	500			
WNAC	Boston, Mass.	Shepard Stores	461.3	650	500			
WNAD	Norman, Okla.	University of Oklahoma	239.9	1250	500			
WNAL	Omaha, Nebr.	R. J. Rockwell	258.5	1160	250			
WNAT	Philadelphia, Pa.	Lennig Bros. Co.	288.3	1040	100			
WNAX	Yankton, S. D.	Dak. Radio Apparatus Co.	302.8	980	250			
WNBA	Forest Park, Ill.	M. T. Rafferty	208.2	1440	200			
WNBK	Endicott, N. Y.	Howitt-Wood Radio Co.	205.8	1450	50			
WNBH	New Bedford, Mass.	Mew Bedford Hotel	260.7	1150	250			
WNBK	Knoxville, Tenn.	Lonsdale Baptist Church	206.8	1450	50			
WNBL	Bloomington, Ill.	Harvey R. Storm	199.9	1500	15			
WNBO	Washington, Pa.	John Browlee Spriggs	211.1	1420	15			
WNBQ	Rochester, N. Y.	Gordon P. Brown	202.6	1480	15			
WNBK	Memphis, Tenn.	Popular Radio Shop	228.9	1310	20			
WNBX	Springfield, Vt.	First Cong. Church	241.8	1240	10			
WNJ	Newark, N. J.	Herman Lubinsky	280.2	1070	500			
WNOX	Knoxville, Tenn.	Peoples Tol. & Tel. Co.	265.3	1130	1000			
WNRC	Greensboro, N. C.	Wayne M. Nelson	223.7	1340	500			
WNYC	New York, N. Y.	Dept. of Plant & Structures	535.4	560	500			
WOAI	San Antonio, Tex.	Southern Equipment Co.	319	940	5000			
WOAN	Lawrenceberg, Tenn.	James D. Vaughn	285.5	1050	250			
WOAX	Trenton, N. J.	Franklyn J. Wolf	239.9	1250	500			
WOBR	Shelby, Ohio (Portable)	Harl Smith	204	1479	10			
WOBT	Union City, Tenn.	Tittsworth's Radio and Music Shop	205.4	1460	15			
WOC	Davenport, Iowa	Palmer Sch. of Chiroprac.	374.8	800	5000			

Call Signal	LOCATION	NAME	Wave Length	Kilo-cycles	Power (Watts)	LOG		
WRAF	Laporte, Ind.	The Radio Club, Inc.	208.2	1440	100			
WRAH	Providence, R. I.	Stanley W. Road	199.9	1500	250			
WRAK	Escanaba, Mich.	Economy Light Co.	282.8	1060	50			
*WRAM	Galesburg, Ill.	Lombard College	247.8	1210	50			
WRAV	Yellow Springs, Ohio	Antioch College	340.7	880	100			
WRAW	Reading, Pa.	Ave. Radio & Elec. Shop	238	1260	100			
WRAX	Philadelphia, Pa.	Beracah Church, Inc.	288.3	1040	250			
WRBC	Valparaiso, Ind.	Immanuel Lutheran Church	238	1260	250			
WRC	Washington, D. C.	Radio Corp. of America	468.5	640	500			
WRCO	Raleigh, N. C.	Wynne Radio Co.	217.3	1380	250			
WREC	Memphis, Tenn.	Wooten's Radio & Electric Co.	254.1	1180	50			
WREN	Lawrence, Kans.	Jenny Wren	254.1	1180	750			
WREO	Lansing, Mich.	Reo Motor Car Co.	230.6	1300	500			
WRES	Quincy, Mass.	Harry Leonard Sawyer	217.3	1380	50			
*WRHF	Washington, D. C.	Radio Hospital Fund	319	940	50			
WRHM	Minneapolis, Minn.	Rosedale Hospital	260.7	1150	1000			
WRK	Hamilton, Ohio	Doran and Slade	205.4	1460	100			
†WRM	Urbana, Ill.	University of Illinois	272.6	1100	500			
WRMU	New York, N. Y.	A. H. Grebe & Co.	201.2	1490	100			
WRNY	New York City	Experimenter Publish. Co.	309.1	970	500			
WRPI	Terre Haute, Ind.	Rose Poly. Inst.	208.2	1440	100			
WRR	Dallas, Tex.	City of Dallas	352.7	850	500			
WRRS	Racine, Wis.	Racine Radio Co.	322.4	930	50			
WRSC	Chelsea, Mass.	The Radio Shop	205.4	1460	15			
WRST	Bay Shore, N. Y.	Radiotel Manufacturing Co.	211.1	1420	250			
WRVA	Richmond, Va.	Larus & Bros. Inc.,	254.1	1180	1000			
WSAI	Cincinnati, Ohio	U. S. Playing Card Company	361.2	830	5000			
WSAJ	Grove City, Pa.	Grove City College	223.7	1340	250			
WSAN	Allentown, Pa.	Allon. Call Publishing Co.	222.1	1350	100			
WSAR	Fall River, Mass.	Doughty & Welch Elec. Co.	252	1190	100			
WSAX	Chicago, Ill.	Zenith Radio Corp. (port.)	204	1470	100			
WSAZ	Huntington, W. Va.	McKeller Elec. Co.	241.8	1240	100			
WSB	Atlanta, Ga.	Atlanta Journal	365.9	630	1000			
WSBC	Chicago, Ill.	World Battery Co.	232.4	1290	500			
WSBF	St. Louis, Mo.	Mississippi Broadcasting Co.	440.9	680	250			
WSBT	South Bend, Ind.	South Bend Tribune	238	1260	250			
WSDA	New York, N. Y.	Seventh Day Adventist Ch.	227.1	1320	250			

*Daytime Only.

†1000 Watts Daytime.

**Full time till Sept. 21, 1927.

"B" BATTERIES (Vertical)



No. 2158

22½ VOLTS PRICE \$2.00

Size—Length, 4¾"; width, 3¾"; height, 7".
15 cells.
Weight, 5 pounds.

Brass posts and contacts with insulated nut terminals. A battery of great current capacity for multi-tube sets and regular heavy duty radio use.

The advantage of this battery is that it will fit inside most receiving cabinets, and a shelf life of over one year.



No. 5308

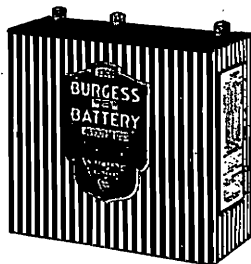
45 VOLTS PRICE \$3.25

Size—Depth, 2½"; width, 4¾"; height, 5¾".
30 cells.

Weight, 3¼ pounds.

Brass post and contact with insulated nut terminals to give +22½ and +45 volts.

A smaller 45-volt battery of light weight for portable sets and convenient dimensions to combine with the No. 6 "A" battery. Shelf life over eight months.



No. 2308

45 VOLTS PRICE \$3.75

Size—Depth, 3¾"; width, 8½"; height, 7".
30 cells.

Weight, 9½ pounds.

Brass posts and contacts with insulated nut terminals to give +22½ and +45 volts.

For radio duty on multi-tube sets. Great current capacity. Occupies minimum table space and fits in most receiving sets. Shelf life over one year.

"B" BATTERIES (Horizontal)



No. 4158

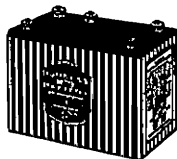
22½ VOLTS PRICE \$1.50

Size—Length, 3¾"; width, 2"; height, 2½".
15 cells.

Weight, 1 pound

Brass post terminals.

Small, light weight battery of moderate current capacity and a shelf life of over six months. Signal Corps type BA-2. Excellent shelf life and light weight make it adaptable for aeroplanes, portable and small cabinet sets.



No. 5156

22½ VOLTS PRICE \$1.75

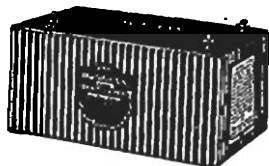
Size—Length, 4¾"; width, 2¾"; height, 2¾".
15 cells.

Weight, 1 pound, 9 ounces.

Brass posts, contacts, and nuts at taps to give +6, +18, +10½ and +22½.

Small, moderate weight battery of medium current capacity and a shelf life of over eight months. Is for use in numerous standard console receiving sets.

Can also be used as grid bias or "C" battery where -3, -4½, -16½ or -22½ volts is required.



No. 2156

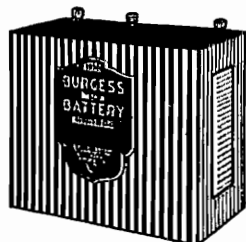
22½ VOLTS PRICE \$2.00

Size—Length, 6¾"; width, 4"; height, 3".
15 cells.

Weight, 5 pounds.

Brass posts, contacts, and nuts at taps, to give +18 and +22½ volts.

Large block type battery usually referred to as "Navy Type." Especially suited for stationary sets and building up high voltages. Shelf life over one year. Can also be used as grid bias or "C" battery where -4½ or -22½ volts is required.

"B" BATTERIES (Vertical)

No. 10308

45 VOLTS**PRICE \$4.75**

Size—Depth, $4\frac{1}{4}$ " ; width, 8" ; height, 7".
30 cells.

Weight, 14 pounds.

Brass posts and contacts with insulated nut terminals to give +22½ and +45 volts.

This "B" battery is used on sets drawing over 20 milliamperes. Shelf life over one year.



No. 21308

45 VOLTS
Size—Depth, $4\frac{1}{4}$ " ; width, $8\frac{1}{4}$ " ; height, $7\frac{1}{4}$ ".
30 cells.

Weight, 16 pounds.

Brass posts and contacts with insulated nut terminals to give +22½ and +45 volts. For sets drawing over 20 milliamperes. Slightly larger and heavier than any other battery. Newly designed to produce maximum capacity. As its name indicates, it's a Super "B" battery. Shelf life over one year.

"A" BATTERY

No. 6 "A"

1½ volts Price \$0.50

Size—Length, $2\frac{3}{8}$ " ; width, $2\frac{3}{8}$ " ; height, 6". 1 cell.

Weight, 2 pounds.
Brass binding posts and nuts.

Designed especially for service on filament circuit of dry cell vacuum tubes. Will give much more service than an ordinary No. 6 Ignition battery.



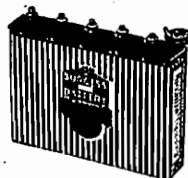
No. 2370

4½ volts Price \$0.60

Size—Length, 4" ; width, $1\frac{1}{8}$ " ; height, 3". 3 cells.

Weight, 1 pound.

Brass posts, contacts and nuts, to give -1½, -3 and -4½ volts. Large size cells. A popular battery because of its size and taps. Shelf life over one year. Can also be used as an "A" battery on some sets.

"C" BATTERIES

No. 5540

7½ volts Price \$0.85

Size—Length, 4" ; width, $\frac{7}{8}$ " ; height, $2\frac{3}{8}$ ". 5 cells.

Weight, 9 ounces.

Brass posts, contacts and nuts and one flexible wire terminal to give -1½, -3, -4½, -6 and -7½ volts. For use in special cases where high "C" voltage is necessary. Shelf life over eight months.



No. 5360

4½ volts Price \$0.40

Size—Length, $2\frac{1}{8}$ " ; width, $\frac{1}{8}$ " ; height, $2\frac{3}{8}$ ". 3 cells.

Weight, 4 ounces.

Binding post terminals, which, with small size, make convenient connections possible in the usual set not already provided with a "C" battery. Cells individually insulated, casing waterproofed. Shelf life over eight months.

Special "C" Battery Information

B Batteries Nos. 5156 and 2156 have taps to give -4½ and -22½ volts so they can be used as a "C" battery with power tubes.

Call Signal	LOCATION	NAME	Wave Length	Kilo-cycles	Power (Watts)	LOG		
WSEA	Virginia Beach, Va.	Virginia Beach Broadcasting Co.	218.8	1370	250			
WSIX	Springfield, Tenn.	638 Tire & Vulc. Co.	212.6	1410	150			
WSKC	Bay City, Mich.	World's Star Kntg. Co.	491.5	610	250			
WSM	Nashville, Tenn.	Nat'l. Life & Accident Co.	340.7	880	5000			
WSMB	New Orleans, La.	Saenger Theatres, Inc.	322.4	930	500			
WSOE	Milwaukee, Wis.	Sch. of Engineering of Mil.	270.1	1110	500			
WSOM	New York City	Union Course Laboratories	245.8	1220	500			
WSRO	Hamilton, Ohio	Harry W. Fahlander	384.4	780	100			
WSSH	Boston, Mass.	Tremont Temple Church	249.9	1200	100			
WSUI	Iowa City, Iowa	State University of Iowa	422.3	710	500			
WSVS	Buffalo, N. Y.	Seneca Vocational School	205.4	1460	50			
WSYR	Syracuse, N. Y.	Clive B. Meredith	225.4	1330	500			
WTAD	Quincy, Ill.	Ill. Stock Medicine Broad. Co.	236.1	1270	250			
WTAG	Worcester, Mass.	Wor. Telegram Pub. Co.	516.9	580	500			
WTAL	Toledo, Ohio	Toledo Broadcasting Co.	280.2	1070	100			
WTAM	Cleveland, Ohio	Willard Storage Battery Co.	399.8	750	3500			
WTAQ	Eau Claire, Wis.	C. S. Van Gordon	254.1	1180	500			
WTAR	Norfolk, Va.	Reliance Electric Co.	275.1	1090	500			
WTAS	Elgin, Ill.	Illinois Broadcasting Corp.	275.1	1090	3500			
WTAW	College Station, Tex.	Agricultural and Mechanical College of Texas	309.1	970	500			
WTAX	Streator, Ill.	Williams Hardware Co.	322.4	930	50			
WTAZ	Lambertville, N. J.	Thomas J. McGuire	220.4	1360	75			
WTHO	Detroit, Mich.	W. J. Thomas Radio Co.	218.8	1370	250			
WTIC	Hartford, Conn.	Travelers Insurance Co.	475.9	630	500			
WTMJ	Milwaukee, Wis.	Milwaukee Journal	293.9	1020	500			
WTRC	Brooklyn, N. Y.	20th Assembly Dist. Reg. Rep. Club, Inc.	204	1470	50			
WTRL	Midland Park, N. J.	Technical Radio Labs.	206.8	1450	15			
WWAC	Chicago, Ill.	Laurence J. Crowley	232.4	1290	500			
WWJ	Detroit, Mich.	Evening News Assn.	374.8	800	1000			
WWL	New Orleans, La.	Loyola University	275.1	1090	100			
WWNC	Asheville, N. C.	Asheville Chamber of Commerce	296.9	1010	1000			
WWRL	Woodside, N. Y.	W. H. Reuman	267.7	1120	100			
WWVA	Wheeling, W. Va.	John C. Stroebel, Jr.	389.4	770	100			

UNITED STATES BROADCASTING STATIONS

By Location

ALABAMA
 AUBURN—WAPI
 BIRMINGHAM—WBRC-
 WBBC
 GADSDEN—WJBY
 MONTGOMERY—WIBZ

ALASKA
 ANCHORAGE—KFQD
 JUNEAU—KFU
 KETCHIKAN—KGBU

ARIZONA
 FLAGSTAFF—KFXY
 PRESCOTT—KPJM
 PHOENIX—KFAD-KFCB
 TUCSON—KGAR

ARKANSAS
 BLYTHEVILLE—KLCN
 FAYETTEVILLE—KUOA
 HOT SPRINGS—KTHS

CALIFORNIA
 AVALON—KFWO
 BERKELEY—KRE
 BURBANK—KELW
 EL CENTRO—KGEN
 FRESNO—KMJ
 HOLLYWOOD—KFQZ
 HOLY CITY—KFQU
 INGLEWOOD—KGGM-KMIO
 LA CRESCENTA—KGFH
 LONG BEACH—KFON-
 KGER
 LOS ANGELES—KFI-
 KFPR-KFSG-KFWB-
 KGEF-KGFJ-KHJ-KMTR-
 KNX-KPLA-KRLO-KTBI
 LOWER LAKE—KGEU
 OAKLAND—KFUS-KFWM-
 KGO-KLS-KLX-KTAB-
 KZM
 PASADENA—KPCC-KPSN
 SACRAMENTO—KFBK
 SAN BERNARDINO—KFWC
 SAN DIEGO—KFBC-KFSD
 SAN FRANCISCO—KFRC-
 KFWI-KGTT-KJBS-KFO-
 KYA
 SAN JOSE—KQW
 SANTA ANA—KWTC
 SANTA BARBARA—KFCR
 SANTA MARIA—KSMR
 SANTA MONICA—KNRC
 STOCKTON—KGDH-KWV
 VENICE—KFVD
 YUBA CITY—KGFH

COLORADO
 COLORADO SPRINGS—
 KFUM
 DENVER—KFEL-KFUP-
 KFXY-KGEY-KOA-KWV
 DUPONT—KLZ
 EDGEWATER—KFXY
 FORT MORGAN—KGEW

GREELEY—KFKA
 GUNNISON—KFHA
 PUEBLO—KGGP
 TRINIDAD—KGFL
 YUMA—KGEK

CONNECTICUT
 DANBURY—WCWS
 EASTON—WICC
 HARTFORD—WTIC
 MANSFIELD—WCAC
 NEW HAVEN—WDRG

DELAWARE
 WILMINGTON—WDEL
 DISTRICT OF COLUMBIA
 WASHINGTON—WMAL-
 WRC-WRHF

FLORIDA
 CLEARWATER—WSUN-
 WFLA
 GAINESVILLE—WHBN
 JACKSONVILLE—WJAX
 LAKELAND—WMBL
 MIAMI—WQAM
 MIAMI BEACH—WIOD-
 WMBF
 ORLANDO—WDBO
 PENSACOLA—WCOA
 TAMPA—WDAE-WJBB-
 WMBR

GEORGIA
 ATLANTA—WGST-WSB
 MACON—WMAZ
 TOCCOA—WTFI

HAWAII
 HONOLULU—KGU

IDAHO
 BOISE—KFAU
 JEROME—KFXD
 KELLOGG—KFEY
 POCATELLO—KSEI

ILLINOIS
 ADDISON—WMBI
 ATWOOD—WLBQ
 BATAVIA—WORD
 BLOOMINGTON—WNBL
 CARTHAGE—WCAZ
 CHICAGO—KFKX-KYW-
 WAAF-WBBM-WBBZ-
 WBCN-WCFL-WCRW-
 WEBB-WEDC-WENF-
 WFKB-WGES-WGN-
 WHBL-WHBM-WHFC-
 WHT-WIBJ-WIBM-WIBO-
 WIBW-WJBT-WJJD-
 WKBG-WKBI-WLIB-
 WLTS-WLTS-WMAQ-
 WMBB-WMBI-WOK-
 WORD-WPCC-WQJ-
 WSAX-WSBC-WTAS-
 WWAE

CHICAGO HEIGHTS—WJBZ
 CRETE—WLS
 DECATUR—WBAO-WJBL
 DEERFIELD—WHT
 EELGIN—WGN-WLIB-
 WTAS
 EVANSTON—WEHS
 FOREST PARK—WNBA
 GALESBURG—WFBZ-
 WKBS-WLBO-WRAM
 GLENVIEW—WBBM
 HARRISBURG—WEBQ
 HOMEWOOD—WMBB-
 WOK
 JOLIET—WCLS-WJBA-
 WKBB
 LA PRAIRIE—WLBN
 LA SALLE—WJBC
 MOOSEHEART—WJJD
 MOUNT PROSPECT—WJAZ
 PEORIA HEIGHTS—WMBD
 QUINCY—WTAD
 ROCKFORD—WLBR-KFLV
 ROCK ISLAND—WBBF
 SPRINGFIELD—WCBS
 STREATOR—WTAX
 TUSCULA—WDZ
 URBANA—WRM
 WAUKEGAN—WPEP
 WENONA—WLBI
 ZION—WCBZ

INDIANA
 ANDERSON—WHBU
 BROOKVILLE—WKBY
 CROWN POINT—WLBT
 CULVER—WCMA
 EVANSVILLE—WGBF
 FORT WAYNE—WCWE-
 WOWO
 GARY—WJKS
 INDIANAPOLIS—WFBM-
 WKBK
 KOKOMO—WJAK
 LAPORTE—WRAF
 MUNCIE—WLBO
 SOUTH BEND—WSBT
 TERRE HAUTE—KGFO-
 WPEI
 VALPARAISO—WRBC
 WEST LAFAYETTE—
 WBAA

IOWA
 AMES—WOI
 BOONE—KFGQ
 BURLINGTON—WIAS
 CEDAR RAPIDS—KWCR-
 WJAM
 CLARINDA—KSO
 COUNCIL BLUFFS—KOIL
 CRESCO—KGDJ
 DAVENPORT—WOC
 DECORAH—KCCA-KWLC
 DES MOINES—WHO
 FORT DODGE—KFJY
 IOWA CITY—KGFH-WSUI
 LE MARS—KWUC

MARSHALLTOWN—KFJB
MUSCATINE—KPNP-KTNT
OSKALOOSA—KFHL
RED OAK—KICK
SHEENANDOAH—KFNF-
KMA
SIOUX CITY—KFMR-KSCJ

KANSAS

CONCORDIA—KGCN
INDEPENDENCE—KFVG
LAWRENCE—KFKU-WREN
MANHATTAN—KSAC
MILFORD—KFKB
WICHITA—KFH

KENTUCKY

HOPKINSVILLE—WFIW
LOUISVILLE—WHAS-
WLAP

LOUISIANA

CEDAR GROVE—KGGH
NEW ORLEANS—WABZ-
WCBE-WJBO-WJBW-
WKBT-WSMB-WWL
SHREVEPORT—KFDX-
KGDX-KRAC-KSBA-
KWKH

MAINE

BANGOR—WABI
DOVER-POXCROFT—
WLBZ
PORTLAND—WCSH

MARYLAND

BALTIMORE—WBAL
WCAO-WCBM-WFBR
TAKOMA PARK—WBES

MASSACHUSETTS

BOSTON—WATT-WBIS-
WBZA-WEEI-WMES-
WNAO-WSSH
CAMBRIDGE—WLBW
CHELSEA—WRSC
E. SPRINGFIELD—WBZ
FALL RIVER—WSAR
GLOUCESTER—WEPS
LEXINGTON—WLEX
MEDFORD—WBET
NEW BEDFORD—WNBH
QUINCY—WRBS
S. DARTMOUTH—WMAF
TAUNTON—WAIT
WEBSTER—WRBE
WELLESLEY HILLS—
WBOS
WORCESTER—WTAG

MICHIGAN

BATTLE CREEK—WKBP
BAY CITY—WSKC
BERRIEN SPRINGS—
WEMC
DETROIT—WAFD-WBWH-
WCX-WJR-WMBC-WWJ
EAST LANSING—WKAR
ESCANABA—WRAK
FLINT—WFDF
GRAND RAPIDS—WASH-
WOOD
IRON MOUNTAIN—WLBY
LAPPEER—WMPG

LUDINGTON—WKBZ
MONROE—WKBL
MT. CLEMENS—WGHF
PONTIAC—WBWP
PONTIAC—WCX combined
with WJR
ROYAL OAK—WAGM
YPSILANTI—WJBK

MINNESOTA

BARRETT—KGDE
COLLEGEVILLE—WEBJ
FRIDLEY—WRHM
HALLOCK—KGFK
MINNEAPOLIS—KFDZ-
KGEQ-WAMD-WCCO-
WDGY-WHDI-WLB
NORTHFIELD—KFMX-
WCAI
ST. CLOUD—WFAM
ST. PAUL—KFOY-WCCO-
WMBE
SLAYTON—KGHC

MISSISSIPPI

COLUMBUS—WCOC
UTICA—WQBC

MISSOURI

CAPE GIRARDEAU—KFVS
CARTERSVILLE—KFPW
COLUMBIA—KFRU
INDEPENDENCE—KLDS
JEFFERSON CITY—WOS
JOPLIN—WMBH
KANSAS CITY—KWKC-
WDAF-WHB-WLBF-
WQQ
KIRKSVILLE—KFKZ
ST. JOSEPH—KFEQ-KGBX
ST. LOUIS—KFQA-KFUO-
KFVE-KFPW-KMOX-
KSD-WFW-WIL-WMAY-
WSBF

MONTANA

HARDIN—KGHP
HAVRE—KFBB
KALISPELL—KGEZ
MISSOULA—KUOM
VIDA—KGCX

NEBRASKA

CENTRAL CITY—KGES
CLAY CENTER—KMMJ
COLUMBUS—KGBY
GRAND ISLAND—KGEQ
HUMBOLDT—KGDW
LINCOLN—KFAB-KFOR-
WCAJ
NORFOLK—WJAG
OMAHA—KFOX-KOCH-
WAAW-WNAL-WOW
RAVENNA—KGFV
WAYNE—KGCH
YORK—KGBZ

NEW HAMPSHIRE

LACONIA—WKAU
TILTON—WBRL

NEW JERSEY

ASBURY PK.—WDWM
ATLANTIC CITY—WHAU-
WPG
BOUND BROOK—WJZ
CAMDEN—WCAM
CARLSTADT—WHAP
CLIFFSIDE—WCDA-WPAP-
WQAO
COYTESVILLE—WRNY
ELIZABETH—WIBS
HOBOKEN—WMCB
JERSEY CITY—WAAT-
WKBO
MIDLAND PARK—WTRL
NEWARK—WAAM-WGCP-
WNJ-WOR
N. PLAINFIELD—WEAM
PATERSON—WODA
RED BANK—WJBI
TRENTON—WOAX
UNION CITY—WBMS

NEW MEXICO

STATE COLLEGE—KOB

NEW YORK

ASTORIA, L. I.—WGBS
AUBURN—WMBO
BAY SHORE—WRST
BELLMORE—WEAF
BROOKLYN—WARS-
WBBC-WBKN-WBRB-
WLTH-WMBQ-WPCH-
WSDA
BUFFALO—WEBR-WGR-
WKBW-WSVS
CANTON—WCAD
CAZENOVIA—WMAC
CONEY ISLAND—WCGU
ENDICOTT—WBNF
FARMINGDALE—WLBH
FLUSHING—WIBI
FREEPORT—WGBB
ITHACA—WLCI
JAMAICA—WMRJ
JAMESTOWN—WOCL
KENMORE—WKEN
LOCKPORT—WMAK
LONG ISLAND CITY—
WLBX
NEW YORK—WBNY-
WEAF-WEBJ-WGL-
WGMU-WHN-WHPP-
WKBQ-WLWL-WMSG-
WNYC-WRMU-WRNY
PEKSKILL—WOKO
RICHMOND HILLS—
WABC-WBOQ
ROCHESTER—WABO-
WHAM-WHEC-WNBQ-
WOKT
ROSSVILLE—WBRR
SCHENECTADY—WGY
SYRACUSE—WFBL-WSYR
TROY—WHAZ
UTICA—WIBX
WOODHAVEN—WEVD
WOODSIDE—WWRU

NORTH CAROLINA
 ASHEVILLE—WWNC
 CHARLOTTE—WBT
 GREENSBORO—WNRC
 RALEIGH—WRCO

NORTH DAKOTA
 ANETA—KGFN
 BISMARCK—KFYR
 DEVIL'S LAKE—KDLR
 FARGO—WDAY
 GRAND FORKS—KFJM
 MANDAN—KGCU

OHIO
 AKRON—WADC
 ASHLAND—WLBP
 ASHTABULA—WJPW
 BELLEFONTAINE—WHBD
 CAMBRIDGE—WEBE
 CANTON—WHBC
 CINCINNATI—WAAD-
 WFBE-WKRC-WSAI
 CLEVELAND—WEAR-
 WHK-WJAY-WTAM
 COLUMBUS—WAIU-
 WCAH-WEAO-WMAN
 DAYTON—WSMK
 HAMILTON—WRK-WSRO
 HARRISON—WLW
 MANSFIELD—WLVB
 SHELBY—WOBR
 SPRINGFIELD—WCOS
 STEUBENVILLE—WIBR
 TOLEDO—WTAL
 WOOSTER—WABW
 YOUNGSTOWN—WKBN-
 WNBW

OKLAHOMA
 ALVA—KGFF
 BRISTOW—KVOO
 CHICKASHA—KOCW
 NORMAN—WNAD
 OKLAHOMA CITY—KFJF-
 KFXX-KGCB-KGFG-
 WKY
 PICHER—KGGF

OREGON
 ASTORIA—KFJI
 CORVALLIS—KOAC
 EUGENE—KGEH
 MEDFORD—KMED
 PORTLAND—KEX-KFEC-
 KFIF-KFJR-KGW-KLIT-
 KOIN-KTBR-KWBS-
 KWJZ-KXL

PENNSYLVANIA
 ALLENTOWN—WCBA-
 WSN
 ALTOONA—WFBG
 EAST PITTSBURGH—
 KDKA
 ELKINS PARK—WIBG
 FRANKFORD—WPKD
 GROVE CITY—WSAJ
 HARRISBURG—WSAK-
 WPRC
 JEANETTE—WGM
 JOHNSTOWN—WHBP
 KINGSTON—WABF

**LANCASTER—WGAL-
 WKJC**
 LEMOYNE—WMBS
 LEWISBURG—WJBU
 MONESSEN—WMBJ
 OIL CITY—WHBA-WLBW
 PARKSBURG—WGAA
 PHILADELPHIA—WABQ-
 WABY-WCAU-WFI-
 WHBW-WIAD-WIP-
 WLIT-WNAT-WOO-
 WPSW-WRAX
 PITTSBURGH—KQV-
 WCAE-WJAS
 READING—WRAW
 SCRANTON—WGBI-WQAN
 STATE COLLEGE—WPSC
 WASHINGTON—WNBO
 WILKES-BARRE—WBAX-
 WBRE
 WILLOW GROVE—WALK

PORTO RICO
 SAN JUAN—WKAQ

RHODE ISLAND
 CRANSTON—WDWF-WLSI
 NEWPORT—WMBA
 PAWTUCKET—WFCl
 PROVIDENCE—WCBR-
 WCOT-WEAN-WJAR-
 WRAH

SOUTH CAROLINA
 CHARLESTON—WBBY

SOUTH DAKOTA
 BROOKINGS—KFDY-KGCR
 DELL RAPIDS—KGDA
 MITCHELL—KGFJ
 OLDHAM—KGDY
 PIERRE—KGFY
 RAPID CITY—WCAT
 SIOUX FALLS—KSOO
 VERMILLION—KUSD
 YANKTON—WNAX

TENNESSEE
 CHATTANOOGA—WDOD
 KNOXVILLE—WFBC-
 WNBZ-WNOX
 LAWRENCEBURG—WOAN
 MEMPHIS—WGBC-WHBQ-
 WMBM-WMC-WNBR-
 WREC
 NASHVILLE—WBWA-
 WDAD-WLAC-WSM
 SPRINGFIELD—WSIX
 UNION CITY—WBT

TEXAS
 AUSTIN—KUT
 AMARILLO—KGRS-WDAG
 BEAUMONT—KFDM
 BRECKENRIDGE—KFYO
 BROWNSVILLE—KWWG
 COLLEGE STATION—
 WTAW
 DALLAS—KRLD-WFAA-
 WRR
 DUBLIN—KFPL
 EL PASO—WDAH

**FORT WORTH—KFJZ-
 KFQB-WBAP**
 GALVESTON—KFLX-KFUL
 GREENVILLE—KFPM
 HARLINGEN—KHMC
 HOUSTON—KFVI-KPRC-
 KTUE
 SAN ANGELO—KGFI
 SAN ANTONIO—KGCI-
 KGDR-KGRC-KTAP-
 K TSA-WOAI
 WACO—WJAD

UTAH
 OGDEN—KFUR
 SALT LAKE CITY—KDYL-
 KFUT-KSL

VERMONT
 BURLINGTON—WCAX
 SPRINGFIELD—WNBX

VIRGINIA
 MOUNT VERNON HILLS—
 WTFE
 NORFOLK—WBBW-WRCV-
 WTAR
 PETERSBURG—WLBG
 RICHMOND—WBBL-
 WMBG-WRVA-WTAZ
 ROANOKE—WDEJ
 VIRGINIA BEACH—WSEA

WASHINGTON
 ABERDEEN—KXRO
 BELLINGHAM—KVOS
 EVERETT—KFBL
 LACEY—KGY
 PULLMAN—KWSC
 SEATTLE—KFOA-KFQW-
 KGBS-KGCL-KJR-KKF-
 KOMO-KPCB-KRSC-
 KTW-KUJ-KXA
 SPOKANE—KFIO-KFPY-
 KGA-KHQ
 TACOMA—KMO-KVI
 WALLA WALLA—KOWW

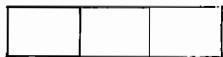
WEST VIRGINIA
 CHARLESTON—WOBU
 HUNTINGTON—WSAZ
 WHEELING—WVVA

WISCONSIN
 APPLETON—WAIZ
 BELOIT—WEBW
 CAMP LAKE—WCLO
 EAU CLAIRE—WTAQ
 FOND DU LAC—KFIZ
 KENOSHA—WKDR
 LA CROSSE—WKBH
 MADISON—WHA-WIBA
 MANITOWOC—WOMT
 MILWAUKEE—WGWB-
 WHAD-WSOE-WTMJ
 POYNETTE—WIBU
 RACINE—WRRS
 STEVENS POINT—WLBL
 SUPERIOR—WBCB
 WEST DE PERE—WHBY

WYOMING
 LARAMIE—KFBU

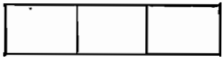
AMERICAN BROADCASTING STATION INDEX BY FREQUENCIES

545.1 meters—550 kilocycles



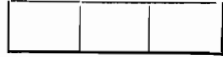
KFKA Greeley, Colo.
KSD St. Louis, Mo.
WMAK Lockport, N. Y.

535.4 meters—560 kilocycles



KFBK Sacramento, Calif.
WCAC Mansfield, Conn.
WHO Des Moines, Iowa
WTIC Hartford, Conn.

526 meters—570 kilocycles



KFKX Chicago, Ill.
KMTR Los Angeles, Calif.
KYW Chicago, Ill.
WNYC New York City

516.9 meters—580 kilocycles



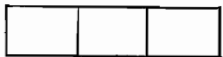
WCAE Pittsburgh, Pa.
WMC Memphis, Tenn.
WTAG Worcester, Mass.

508.2 meters—590 kilocycles



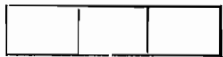
KLX Oakland, Calif.
WFLA Clearwater, Fla.
WIP Philadelphia, Pa.
WOO Philadelphia, Pa.
WOW Omaha, Nebr.
WSUN Clearwater, Fla.

499.7 meters—600 kilocycles



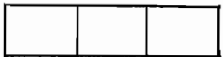
KFUT Salt Lake City, Utah
WBAP Fort Worth, Tex.
WBBY Charleston, S. C.
WFAA Dallas, Tex.

491.5 meters—610 kilocycles



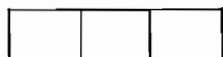
KGW Portland, Ore.
WEAF New York, N. Y.

483.6 meters—620 kilocycles



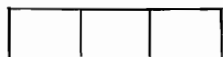
KFDM Beaumont, Tex.
KUSD Vermillion, S. D.
WCFL Chicago, Ill.
WCSH Portland, Me.
WEMC Berrian Spgs., Mich.
WLTS Chicago, Ill.
WTAW College Station, Tex.

475.9 meters—630 kilocycles



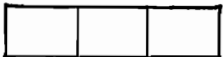
WSB Atlanta, Ga.
WSUI Iowa City, Iowa

468.5 meters—640 kilocycles



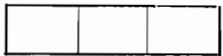
KFI Los Angeles, Calif.
WRC Washington, D. C.

461.3 meters—650 kilocycles



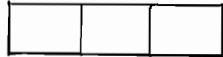
KFNF Shenandoah, Iowa
KRLD Dallas, Tex.
KUOM Missoula, Mont.
WHAS Louisville, Ky.
WNAC Boston, Mass.
WRR Dallas, Tex.

454.3 meters—660 kilocycles



KFRC San Francisco, Calif.
WJZ Bound Brook, N. J.

447.5 meters—670 kilocycles



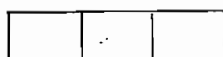
KFOA Seattle, Wash.
WMAQ Chicago, Ill.
WQJ Chicago, Ill.

440.9 meters—680 kilocycles



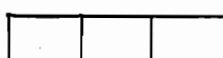
KFDY Brookings, S. D.
KFSD San Diego, Calif.
WAAW Omaha, Nebr.
WCX Detroit, Mich.
WIBG Elkins Park, Pa.
WJR Pontiac, Mich.

428.3 meters—700 kilocycles



KFBU Laramie, Wyo.
WLW Harrison, Ohio
WMAF S. Dartmouth, Mass.

422.3 meters—710 kilocycles



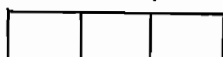
KPO San Francisco, Calif.
WOR Newark, N. J.
WOS Jefferson City, Mo.

416.4 meters—720 kilocycles



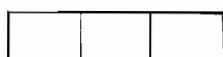
KHJ Los Angeles, Calif.
WHAZ Troy, N. Y.
WHT Chicago, Ill.
WIBOJ Chicago, Ill.

405.2 meters—740 kilocycles



WCCO Minneapolis, Minn.
WFI Philadelphia, Pa.
WLIT Philadelphia, Pa.

399.8 meters—750 kilocycles



KLX Denver, Colo.
KLZ Dupont, Colo.
WEAR Cleveland, Ohio
WTAM Cleveland, Ohio

394.5 meters—760 kilocycles



KMA Shenandoah, Iowa
KOB State College, N. M.
KTW Seattle, Wash.
KWKH Shreveport, La.
KWSC Pullman, Wash.
WHN New York City
WPAP Cliffside, N. J.
WQAO Cliffside, N. J.

389.4 meters—770 kilocycles



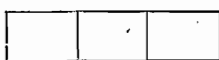
WAAF Chicago, Ill.
 WABI Bangor, Maine
 WBBM Chicago, Ill.
 WJBT Chicago, Ill.

384.4 meters—780 kilocycles



KGO Oakland, Calif.
 KTHS Hot Springs, Ark.
 WBSO Wellesley Hills, Mass.
 WCAO Baltimore, Md.
 WCBM Baltimore, Md.
 WLSI Cranston, R. I.
 WMBF Miami Beach, Fla.
 WRSO Hamilton, Ohio

379.5 meters—790 kilocycles



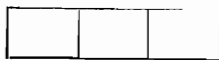
WCAJ Lincoln, Nebr.
 WGY Schenectady, N. Y.

374.8 meters—800 kilocycles



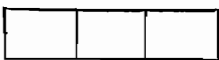
KNRC Santa Monica, Calif.
 WJAR Providence, R. I.
 WOC Davenport, Iowa

370.2 meters—810 kilocycles



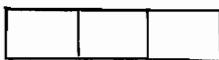
KHQ Spokane, Wash.
 WDAF Kansas City, Mo.
 WLWL New York City
 WMCA Hoboken, N. J.

365.6 meters—820 kilocycles



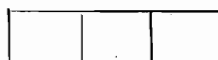
KMJ Fresno, Calif.
 WEBH Chicago, Ill.
 WEEL Boston, Mass.
 WJJD Mooseheart, Ill.

361.2 meters—830 kilocycles



KFWB Los Angeles, Calif.
 WDAY Fargo, N. D.
 WSAI Cincinnati, Ohio

352.7 meters—850 kilocycles



KWTC Santa Ana, Calif.
 WEW St. Louis, Mo.
 WWJ Detroit, Mich.

348.6 meters—860 kilocycles



KJR Seattle, Wash.
 KVOO Bristow, Okla.
 KXA Seattle, Wash.
 WAAM Newark, N. J.
 WGBS Astoria, L. I.

344.6 meters—870 kilocycles



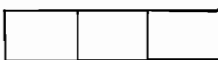
KFOD Anchorage, Alaska
 KWG Stockton, Calif.
 WCBZ Zion, Ill.
 WJBB Tampa, Fla.
 WLS Chicago, Ill.

340.7 meters—880 kilocycles



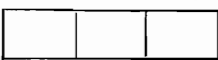
WCAZ Carthage, Ill.
 WKAQ San Juan, Porto Rico
 WSM Nashville, Tenn.

336.9 meters—890 kilocycles



KNX Los Angeles, Calif.
 WHB Kansas City, Mo.
 WJAX Jacksonville, Fla.
 WQQ Kansas City, Mo.
 WWA Wheeling, W. Va.

333.1 meters—900 kilocycles



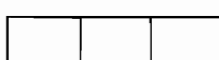
KFJM Grand Forks, N. D.
 KFQB Fort Worth, Tex.
 KSAC Manhattan, Kan.
 KSEI Pocatello, Idaho
 WBZ E. Springfield, Mass.
 WBZA Boston, Mass.
 WHA Madison, Wis.
 WJAD Waco, Tex.
 WLBL Stevens Point, Wis.

325.9 meters—920 kilocycles



KOA Denver, Colo.
 WABC Richmond Hills, N. Y.
 WAPI Auburn, Ala.
 WBOQ Richmond Hills, N. Y.

322.4 meters—930 kilocycles



KICK Red Oak, Iowa
 WIAS Burlington, Iowa
 WJBA Joliet, Ill.
 WKBI Chicago, Ill.
 WKDR Kenosha, Wis.
 WLBR Rockford, Ill.
 WLBT Crown Point, Ind.
 WQAM Miami, Fla.
 WRHF Washington, D. C.
 WRRS Racine, Wis.
 WSMB New Orleans, La.
 WTAX Streator, Ill.

319 meters—940 kilocycles



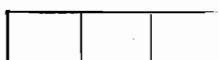
KOIN Portland, Ore.
 WEAN Providence, R. I.
 WGHF Mt. Clemens, Mich.
 WOAI San Antonio, Tex.

315.6 meters—950 kilocycles



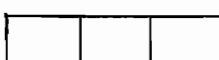
KDKA E. Pittsburgh, Pa.
 KPSN Pasadena, Calif.

309.1 meters—970 kilocycles



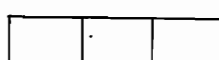
KFAB Lincoln, Nebr.
 KYA San Francisco, Calif.
 WPCB Brooklyn, N. Y.
 WRNY Coytesville, N. J.

305.9 meters—980 kilocycles



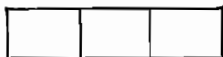
KOMO Seattle, Wash.
 WGN Chicago, Ill.
 WLIB Chicago, Ill.

302.8 meters—990 kilocycles



KSL Salt Lake City, Utah
 WBIS Boston, Mass.
 WGR Buffalo, N. Y.
 WNAX Yankton, S. D.

299.8 meters—1000 kilocycles



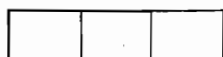
KFWO Avalon, Calif.
 KMOX St. Louis, Mo.
 KOWW Walla Walla, Wash.
 WBAK Harrisburg, Pa.
 WPSC State College, Pa.

296.9 meters—1010 kilocycles



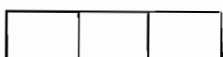
KGFV Ravenna, Nebr.
 KQW San Jose, Calif.
 KUOA Fayetteville, Ark.
 WADC Akron, Ohio
 WDEL Wilmington, Del.
 WEPS Gloucester, Mass.
 WHBN St. Petersburg, Fla.
 WSMK Dayton, Ohio
 WWNC Asheville, N. C.

293.9 meters—1020 kilocycles



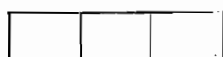
KGCH Wayne, Nebr.
 KGEZ Kallspell, Mont.
 KPRS Houston, Tex.
 WGL New York City
 WLBW Oil City, Pa.
 WODA Paterson, N. J.
 WTMJ Milwaukee, Wis.

288.3 meters—1040 kilocycles



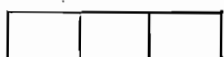
KGBX St. Joseph, Mo.
 KTBI Los Angeles, Calif.
 WBCN Chicago, Ill.
 WBET Medford, Mass.
 WDBO Orlando, Fla.
 WENR Chicago, Ill.
 WIAD Philadelphia, Pa.
 WKY Oklahoma City, Okla.
 WNAT Philadelphia, Pa.
 WSSH Boston, Mass.

285.5 meters—1050 kilocycles



KFAU Boise, Idaho
 KFOY St. Paul, Minn.
 KLCN Blytheville, Ark.
 KMMJ Clay Center, Nebr.
 WBAL Baltimore, Md.
 WJAG Norfolk, Nebr.
 WKAR E. Lansing, Mich.
 WOAN Lawrenceburg, Tenn.

282.8 meters—1060 kilocycles



KFJR Portland, Ore.
 KFUM Colo. Springs, Colo.
 KFXX Denver, Colo.
 KTBR Portland, Ore.
 WAIU Columbus, Ohio
 WDRS New Haven, Conn.
 WEAO Columbus, Ohio
 WRAC Escanaba, Mich.

280.2 meters—1070 kilocycles



KTAB Oakland, Calif.
 WFBG Altoona, Pa.
 WFIW Hopkinsville, Ky.
 WGCP Newark, N. J.
 WNJ Newark, N. J.
 WTAL Toledo, Ohio

277.6 meters—1080 kilocycles



KOIL Council Bluffs, Iowa
 KWVG Brownsville, Tex.
 WDZ Tuscola, Ill.
 WGBC Memphis, Tenn.
 WHAM Rochester, N. Y.

275.1 meters—1090 kilocycles



KFBB Havre, Mont.
 KFPL Dublin, Tex.
 KFSG Los Angeles, Calif.
 WDFW Cranston, R. I.
 WFBM Indianapolis, Ind.
 WFBR Baltimore, Md.
 WORD Chicago, Ill.
 WTAS Chicago, Ill.
 WWL New Orleans, La.

272.6 meters—1100 kilocycles



KFAD Phoenix, Ariz.
 KFJF Oklahoma City, Okla.
 KSMR Santa Maria, Calif.
 WBAA W. Lafayette, Ind.
 WFBJ Collegeville, Minn.
 WDFD Flint, Mich.
 WHAR Atlantic City, N. J.
 WPG Atlantic City, N. J.
 WRM Urbana, Ill.
 WSKC Bay City, Mich.

270.1 meters—1110 kilocycles



KFLX Galveston, Tex.
 KGU Honolulu, Hawaii
 KLDS Independence, Mo.
 KOAC Corvallis, Ore.
 KQV Pittsburgh, Pa.
 WGST Atlanta, Ga.
 WHAD Milwaukee, Wjs.
 WJAS Pittsburgh, Pa.
 WMAZ Macon, Ga.
 WSOE Milwaukee, Wis.

267.7 meters—1120 kilocycles



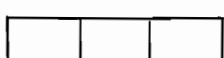
KFIZ Fond du Lac, Wis.
 KFLV Rockford, Ill.
 KFVW San Francisco, Calif.
 KSBA Shreveport, La.
 WAAD Cincinnati, Ohio
 WBAO Decatur, Ill.
 WBKN Brooklyn, N. Y.
 WBMS Union City, N. J.
 WDAE Tampa, Fla.
 WIBI Flushing, N. Y.
 WLAP Louisville, Ky.
 WOBV Charleston, W. Va.
 WRRL Woodside, N. Y.

265.3 meters—1130 kilocycles



KKP Seattle, Wash.
 KTSA San Antonio, Tex.
 WBES Takoma Park, Md.
 WCWS Danbury, Conn.
 WHK Cleveland, Ohio
 WICC Easton, Conn.
 WNOX Knoxville, Tenn.
 WOI Ames, Iowa

263 meters—1140 kilocycles



KFPW Cartersville, Mo.
 KGEF Los Angeles, Calif.
 KGEK Yuma, Colo.
 KGHP Hardin, Mont.
 WDAG Amarillo, Tex.
 WEAM N. Plainfield, N. J.
 WJAZ Mt. Prospect, Ill.
 WJBI Red Bank, N. J.
 WJBO New Orleans, La.
 WMBI Chicago, Ill.
 WSEA Virginia Beach, Va.

260.7 meters—1150 kilocycles



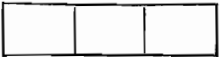
KGA Spokane, Wash.
 WCAU Philadelphia, Pa.
 WGDY Minneapolis, Minn.
 WHBA Oil City, Pa.
 WNBH New Bedford, Mass.
 WOOD Grand Rapids, Mich.
 WRHM Fridley, Minn.

258.5 meters—1160 kilocycles



KDYL Salt Lake City, Utah
 KFOX Omaha, Nebr.
 KFUL Galveston, Tex.
 KOCH Omaha, Nebr.
 WBT Charlotte, N. C.
 WDMA Culver, Ind.
 WEBW Boloit, Wis.
 WFBL Syracuse, N. Y.
 WIL St. Louis, Mo.
 WNAL Omaha, Nebr.
 WSBF St. Louis, Mo.

256.3 meters—1170 kilocycles



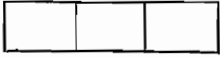
KFUS Oakland, Calif.
 KRE Berkeley, Calif.
 KTNT Muscatine, Iowa
 WASH Grand Rapids, Mich.
 WBBR Rossville, N. Y.
 WCSO Springfield, Ohio
 WEBJ New York City
 WLTH Brooklyn, N. Y.

254.1 meters—1180 kilocycles



KFHA Gunnison, Colo.
 KFKU Lawrence, Kan.
 KGDA Dell Rapids, S. D.
 KGFY Pierre, S. D.
 KMO Takoma, Wash.
 WABO Rochester, N. Y.
 WCAX Burlington, Vt.
 WHCC Rochester, N. Y.
 WREC Memphis, Tenn.
 WREN Lawrence, Kan.
 WRVA Richmond, Va.
 WTAQ Eau Claire, Wis.

252 meters—1190 kilocycles



KOCW Chickasha, Okla.
 KPLA Los Angeles, Calif.
 WFAM St. Cloud, Minn.
 WCAL Lancaster, Pa.
 WKBF Indianapolis, Ind.
 WKBT New Orleans, La.
 WKJC Lancaster, Pa.
 WMBB Chicago, Ill.
 WMBR Tampa, Fla.
 WOK Chicago, Ill.
 WSAR Fall River, Mass.

249.9 meters—1200 kilocycles



KFJI Astoria, Ore.
 KFJZ Fort Worth, Tex.
 KFQU Holy City, Calif.
 KFRU Columbia, Mo.
 KFVY Bismarck, N. D.
 KMED Medford, Ore.
 WBAX Wilkes-Barre, Pa.
 WBRE Wilkes-Barre, Pa.
 WCOA Pensacola, Fla.
 WHBY West de Pere, Wis.
 WBSR Steubenville, Ohio
 WSSH Boston, Mass.

247.8 meters—1210 kilocycles



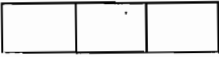
KFBC San Diego, Calif.
 KFEL Denver, Colo.
 KFJB Marshalltown, Iowa
 KFQA St. Louis, Mo.
 KGCA Decorah, Iowa
 KOW Decorah, Iowa
 KWLC Wooster, Ohio
 WABW Philadelphia, Pa.
 WABZ New Orleans, La.
 WBAW Nashville, Tenn.
 WBBL Richmond, Va.
 WCAT Rapid City, S. D.
 WEBE Cambridge, Ohio
 WFBZ Galesburg, Ill.
 WFKD Frankford, Pa.
 WIOD Miami Beach, Fla.
 WLCT Ithaca, N. Y.
 WMAV St. Louis, Mo.
 WRAM Galesburg, Ill.

245.8 meters—1220 kilocycles



KFH Wichita, Kan.
 KFIO Spokane, Wash.
 KFVY Spokane, Wash.
 KLS Oakland, Calif.
 KZM Oakland, Calif.
 WAAT Jersey City, N. J.
 WDOO Chattanooga, Tenn.
 WEVD Woodhaven, N. Y.
 WFBE Cincinnati, Ohio
 WGBB Freeport, N. Y.
 WHDI Minneapolis, Minn.
 WKRC Cincinnati, Ohio
 WLB Minneapolis, Minn.

243.8 meters—1230 kilocycles



KFCB Phoenix, Ariz.
 KGCK Vida, Mont.
 KGRS Amarillo, Tex.
 KGY Lacey, Wash.
 KSCJ Sioux City, Iowa
 KWUC LeMars, Iowa
 WBRC Birmingham, Ala.
 WCAD Canton, N. Y.
 WMBC Detroit, Mich.

241.8 meters—1240 kilocycles



KFKB Milford, Kan.
 KFON Long Beach, Calif.
 WBCB Superior, Wis.
 WEBR Buffalo, N. Y.
 WEDC Chicago, Ill.
 WFCI Pawtucket, R. I.
 WGES Chicago, Ill.
 WMAL Washington, D. C.
 WNBX Springfield, Vt.
 WSAZ Huntington, W. Va.

239.9 meters—1250 kilocycles



KEX Portland, Ore.
 KGCU Mandan, N. D.
 KWCR Cedar Rapids, Iowa
 WBBP Potoskey, Mich.
 WDWMI Asbury Pk., N. J.
 WDBI Madison, Wis.
 WJAM Cedar Rapids, Iowa
 WNDAD Norman, Okla.
 WOAX Trenton, N. J.

238 meters—1260 kilocycles



KFVI Houston, Tex.
 WIBX Utica, N. Y.
 WJBW New Orleans, La.
 WLEI Wenona, Ill.
 WRAW Reading, Pa.
 WRBC Valparaiso, Ind.
 WSBT South Bend, Ind.

236.1 meters—1270 kilocycles



KFDX Shreveport, La.
 KFMX Northfield, Minn.
 KFWM Oakland, Calif.
 KHMC Harlingen, Tex.
 WBBW Norfolk, Va.
 WBNY New York City
 WCAL Northfield, Minn.
 WGBF Evansville, Ind.
 WHAP Carlstadt, N. J.
 WHCB Canton, Ohio
 WMSG New York City
 WTAD Quincy, Ill.
 WTRAR Norfolk, Va.

234.2 meters—1280 kilocycles



KFUO St. Louis, Mo.
KFVE St. Louis, Mo.
K GAR Tucson, Ariz.
KVI Tacoma, Wash.
WCAH Columbus, Ohio
WDAH El Paso, Tex.
WFBC Knoxville, Tenn.
WJAK Kokomo, Ind.
WJBY Gadsden, Ala.
WMAN Columbus, Ohio
WMBS Lemoyne, Pa.
WMPC Lapeer, Mich.

227.1 meters—1320 kilocycles



KFUP Denver, Colo.
KGEU Lower Lake, Calif.
KSO Clarinda, Iowa
KXRO Aberdeen, Wash.
WAIZ Appleton, Wis.
WARS Brooklyn, N. Y.
WBBC Brooklyn, N. Y.
WCBE New Orleans, La.
WCLO Camp Lake, Wis.
WJAY Cleveland, Ohio
WJBC La Salle, Ill.
WSDA Brooklyn, N. Y.
WVAE Chicago, Ill.

220.4 meters—1360 kilocycles



KGCI San Antonio, Tex.
KGFI San Angelo, Tex.
KGRC San Antonio, Tex.
KJBS San Francisco, Calif.
KRAC Shreveport, La.
KXL Portland, Ore.
WHBU Anderson, Ind.
WHBW Philadelphia, Pa.
WJBK Ypsilanti, Mich.
WKBH La Crosse, Wis.
WMBG Richmond, Va.
WMBO Auburn, N. Y.
WTAZ Richmond, Va.

232.4 meters—1290 kilocycles



KFEY Kellogg, Idaho
KFJY Fort Dodge, Iowa
KFMR Sioux City, Iowa
KFRP Los Angeles, Calif.
KFQZ Hollywood, Calif.
KUT Austin, Tex.
WBRL Tilton, N. H.
WHBS Memphis, Tenn.
WJQS Gary, Ind.
WLBB Farmingdale, N. Y.
WMBJ Monesson, Pa.
WSBC Chicago, Ill.

225.4 meters—1330 kilocycles



KFIU Juneau, Alaska
KFKZ Kirksville, Mo.
KFUR Ogdun, Utah
KFVG Independence, Kan.
KGEN El Centro, Calif.
WAGM Royal Oak, Mich.
WAMD Minneapolis, Minn.
WCOT Providence, R. I.
WDAD Nashville, Tenn.
WLAC Nashville, Tenn.
WYAC Cazenovia, N. Y.
WSYR Syracuse, N. Y.

218.8 meters—1370 kilocycles



KGEW Fort Morgan, Colo.
WCCU Coney Island, N. Y.
WGWB Milwaukee, Wis.
WKBC Birmingham, Ala.
WKBO Jersey City, N. J.
WKBQ New York City

230.6 meters—1300 kilocycles



KDLR Devil's Lake, N. D.
KFEO St. Joseph, Mo.
KPFM Greenville, Tex.
KGCL Seattle, Wash.
KPCB Seattle, Wash.
WAFD Detroit, Mich.
WCOC Columbus, Miss.
WDBJ Roanoke, Va.
WGBI Scranton, Pa.
WISZ Montgomery, Ala.
WLdM Cambridge, Mass.
WQAN Scranton, Pa.

223.7 meters—1340 kilocycles



KFBL Everett, Wash.
KFVS Cape Girardeau, Mo.
KFXR Oklahoma City, Okla.
KGDP Pueblo, Colo.
KGFB Iowa City, Iowa
KGFH La Crescenta, Calif.
KGFK Hallock, Minn.
KMIC Inglewood, Calif.
WABQ Philadelphia, Pa.
WCAM Camden, N. J.
WCRW Chicago, Ill.
WEBQ Harrisburg, Ill.
WFKB Chicago, Ill.
WKAV Laconia, N. H.
WNRV Greensboro, N. C.
WOCL Jamestown, N. Y.
WPCC Chicago, Ill.
WSAJ Grove City, Pa.

217.3 meters—1380 kilocycles



KFOR Lincoln, Nebr.
KFQW Seattle, Wash.
KGDH Stockton, Calif.
WIBU Poyonette, Wis.
WKBS Galesburg, Ill.
WKBV Brookville, Ind.
WKBW Buffalo, N. Y.
WLBO Galesburg, Ill.
WRCO Raleigh, N. C.
WRES Quincy, Mass.

228.9 meters—1310 kilocycles



KELW Burbank, Calif.
KGBU Ketchikan, Alaska
KPCB Pasadena, Calif.
KTAJ San Antonio, Tex.
KWIJ Portland, Ore.
WHBP Johnstown, Pa.
WKBE Webster, Mass.
WMBL Lakeland, Fla.
WNBK Memphis, Tenn.
WOWO Fort Wayne, Ind.

222.1 meters—1350 kilocycles



KFWC San Bernardino, Calif.
KGFL Trinidad, Colo.
KWKC Kansas City, Mo.
WCBA Allentown, Pa.
WHBD Bellefontaine, Ohio
WHBF Rock Island, Ill.
WOMT Manitowoc, Wis.
WSAN Allentown, Pa.

215.7 meters—1390 kilocycles



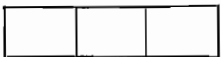
KFDZ Minneapolis, Minn.
KFXJ Edgewater, Colo.
KGCB Oklahoma City, Okla.
KGER Long Beach, Calif.
KGFG Oklahoma City, Okla.
KRLO Los Angeles, Calif.
WCLS Joliet, Ill.
WEHS Evanston, Ill.
WHFC Chicago, Ill.
WKBX Joliet, Ill.
WLEX Lexington, Mass.
WOKO Peekskill, N. Y.
WPEP Waukegan, Ill.
WQAA Parkersburg, Pa.
WQBC Utica, Miss.

214.2 meters—1400 kilocycles



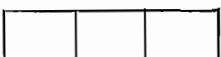
KFEC Portland, Ore.
 KFIF Portland, Ore.
 KFWM St. Louis, Mo.
 KPJM Prescott, Ariz.
 WAIT Taunton, Mass.
 WCWK Fort Wayne, Ind.
 WJBU Lewisburg, Pa.
 WKBN Youngstown, Ohio
 WLBG Petersburg, Va.
 WMBW Youngstown, Ohio.

212.6 meters—1410 kilocycles



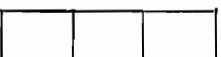
KFHL Oskaloosa, Iowa
 KGBZ York, Nebr.
 KGDX Shreveport, La.
 KGFF Mitchell, S. D.
 KGGH Cedar Grove, La.
 KTUE Houston, Tex.
 WJBL Decatur, Ill.
 WKBP Battle Creek, Mich.
 WRAX Philadelphia, Pa.
 WSIX Springfield, Tenn.

211.1 meters—1420 kilocycles



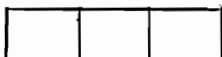
KFCR Santa Barbara, Calif.
 KFYO Breckenridge, Tex.
 KGFM Yuba City, Calif.
 KPNP Muscatine, Iowa
 KRSC Seattle, Wash.
 WBMH Detroit, Mich.
 WBRS Brooklyn, N. Y.
 WCDA Clifside, N. J.
 WNES Boston, Mass.
 WNBO Washington, Pa.
 WRSC Chelsea, Mass.
 WRST Bay Shore, N. Y.

209.7 meters—1430 kilocycles



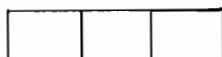
LFGO Boone, Iowa
 GHG Slayton, Minn.
 SOO Sioux Falls, S. D.
 VOS Bellingham, Wash.
 VCBS Springfield, Ill.
 VLBC Muncie, Ind.
 VLBF Kansas City, Mo.
 VLBY Iron Mountain, Mich.
 VBMB Memphis, Tenn.
 VOKT Rochester, N. Y.
 VPRC Harrisburg, Pa.
 VRCV Norfolk, Va.
 VTFI Toccoa, Ga.

208.2 meters—1440 kilocycles



KFVD Venico, Calif.
 KGCC Concordia, Kan.
 KGCR Brookings, S. D.
 KGFF Los Angeles, Calif.
 Jeanette, Pa.
 WJBZ Chicago Heights, Ill.
 WJPW Ashtabula, Ohio
 WLBS Dover-Foxcroft, Mo.
 WMBA St. Paul, Minn.
 WNBA Forest Park, Ill.
 WRAF La Porte, Ind.
 WRPI Terre Haute, Ind.

206.8 meters—1450 kilocycles



KGDW Humboldt, Nebr.
 KGDY Oldham, S. D.
 KGGF Picher, Okla.
 KGTT San Francisco, Calif.
 KLIT Portland, Ore.
 WHPP Bronx, N. Y.
 WLBV Mansfield, Ohio
 WMRJ Jamaica, N. Y.
 WNBV Endicott, N. Y.
 WNBK Knoxville, Tenn.
 WTLR Midland Park, N. J.

205.4 meters—1460 kilocycles



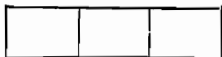
KFXV Flagstaff, Ariz.
 KGDE Barrett, Minn.
 KGEO Grand Island, Nebr.
 KGFF Alva, Okla.
 WABF Kingston, Pa.
 WKBL Monroe, Mich.
 WMBD Peoria Heights, Ill.
 WOBT Union City, Tenn.
 WRK Hamilton, Ohio
 WSVS Buffalo, N. Y.

204 meters—1470 kilocycles



KFXD Jerome, Idaho
 KGES Central City, Nebr.
 KGFO Terre Haute, Ind.
 KGGM Inglewood, Calif.
 WBBZ Chicago, Ill.
 WHBL Chicago, Ill.
 WIBS Elizabeth, N. J.
 WIBW Chicago, Ill.
 WKEN Kenmore, N. Y.
 WLBN La Prairie, Ill.
 WLBS Long Island City, N. Y.
 WMBW Newport, R. I.
 WMBH Joplin, Mo.
 WMBQ Brooklyn, N. Y.
 WOBR Shelby, Ohio
 WSAX Chicago, Ill.
 WTFE Mt. Vernon Hills, Va.

202.6 meters—1480 kilocycles



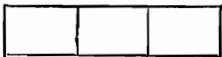
KGBS Seattle, Wash.
 KGBY Columbus, Nebr.
 KGDJ Cresco, Iowa
 KGDR San Antonio, Tex.
 KGEQ Minneapolis, Minn.
 WLBQ Atwood, Ill.
 WNBQ Rochester, N. Y.
 WPSW Philadelphia, Pa.

201.2 meters—1490 kilocycles



KGEH Eugene, Ore.
 KGEY Denver, Colo.
 WALK Willow Grove, Pa.
 WATT Boston, Mass.
 WCBR Providence, R. I.
 WGMU New York City
 WHBM Chicago, Ill.
 WIBJ Chicago, Ill.
 WIBM Chicago, Ill.
 WKBG Chicago, Ill.
 WRMU New York City

199.9 meters—1500 kilocycles



KGFN Aneta, N. Dak.
 KUJ Seattle, Wash.
 KWBS Portland, Ore.
 WKBZ Ludington, Mich.
 WNLB Bloomington, Ill.
 WRAH Providence, R. I.

CANADIAN BROADCASTING STATIONS

Alphabetically by Call Signal

Call Signal	LOCATION	NAME	Wave Length	Kilo-cycles	Power (Watts)	LOG		
CFAC	Calgary, Alta.	The Calgary Herald	434.5	690	500			
CFCA	Toronto, Ont.	Star Pub. & Prtg. Co.	356.9	840	500			
CFCF	Montreal, Que.	Canadian Marconi Co.	410.7	730	1650			
CFCH	Iroquois Falls, Ont.	Abitibi Power & Paper Co., Ltd.	499.7	600	250			
CFCK	Edmonton, Alta.	Radio Supply Co., Ltd.	516.9	580	100			
CFCN	Calgary, Alta.	W. W. Grant Radio Ltd.	434.5	690	1800			
CFCQ	Vancouver, B. C.	Spratt-Shaw Radio Co.	410.7	730	20			
CFCT	Victoria, B. C.	Geo. W. Deaville	329.5	910	500			
CFCY	Charlottetown, P. E. I.	Island Radio Co.	312.3	960	50			
CFDC	Vancouver, B. C.	Western Auto Electric Co.	410.7	730	15			
CFGC	Brantford, Ont.	Brant Radio Supply Co., Ltd.	296.9	1010	50			
CFJC	Kamloops, B. C.	N. S. Dagleish & Sons, and Woller & Woller	267.7	1120	50			
CFLC	Prescott, Ont.	Radio Assn. of Prescott	296.9	1010	50			
CFMC	Kingston, Ont.	Monarch Battery Co.	267.7	1120	20			
CFQC	Saskatoon, Sask.	The Electric Shop, Ltd	329.5	910	500			
CFRC	Kingston, Ont.	Queen's University	267.7	1120	500			
CFYC	Burnaby, B. C.	Radio Corp. of Vancouver	410.7	730	1000			
CHCO	Huntsville, Ont.	A. Staples	247.8	1210	5			
CHCS	Hamilton, Ont.	The Hamilton Spectator	340.7	880	10			
CHCY	Edmonton, Alta.	Int. Bible Students Asso.	516.9	580	150			
CHIC	Toronto, Ont.	Northern Electric Co., Ltd.	356.9	840	500			
CHLC	Summerside, P. E. I.	R. T. Holman, Ltd.	267.7	1120	25			
CHNC	Toronto, Ont.	Toronto Radio Research Society	356.9	840	500			
CHNS	Halifax, N. S.	Halifax Herald and Carleton Hotel	322.4	930	100			
CHPC	Vancouver, B. C.	Central Presbyterian Church	410.7	730	1000			
CHRC	Quebec, Que.		340.7	880	5			
CHUC	Saskatoon, Sask.	Int'l Bible Students Assn.	329.5	910	500			
CHWC	Regina, Sask.		296.9	1010	500			
CHXC	Ottawa, Ont.	J. B. Booth, Jr.	434.5	690	250			
CHYC	Montreal, P. Q.	No. Elec. Co., Ltd.	410.7	730	750			
CJBC	Toronto, Ont.	Jarvis St. Baptist Church	291.1	1030	500			
CJCA	Edmonton, Alta.	Edmonton Journal, Ltd.	516.7	580	500			
CJCF	Kitchener, Ont.	O. Rump	247.8	1210	25			

Call Signal	LOCATION	NAME	Wave Length	Kilo-cycles	Power (Watts)	LOG	
CJCI	Toronto, Ont.	Loyal Order of Moose	291.1	1030			
CJQC	Kingston, Ont.	Standard Radio Mfg. Co., Ltd.	291.1	30	1000		
CJGC	London, Ont.	Lon. Free Press Prtg. Co.	329.5	910	500		
CJOG	Lethbridge, Alta.	J. E. Palmer	267.7	1120	50		
CJOR	Sea Island, B. C.		291.1	1030	50		
CJRM	Moose Jaw, Sask.	James Richardson & Sons	296.9	1010	50		
CJSC	Toronto, Ont.	The Evening Telegram	356.9	840	500		
CJTC	Calgary, Alta.	Radio Service Repair Shop	434.5	690	250		
CJWC	Saskatoon, Sask.	Wheaton Electric Co., Ltd.	329.5	910	250		
CJYC	Scarboro Sta., Ont.	Universal Radio Co. of Canada, Ltd.	291.1	1030	500		
CKAC	Montreal, P. Q.	LaPresse Pub. Co. Ltd.	410.7	730	1200		
CKCD	Vancouver, B. C.	Vancouver Daily Province	410.7	730	1000		
CKCI	Quebec, Que.	Le "Soleil," Ltd.	340.7	880	22.5		
CKCK	Regina, Sask.	Leader Pub. Co., Ltd.	296.9	1010	500		
CKLC	Toronto, Ont.	The Dom. Battery Co. Ltd.	356.9	840	500		
CKCO	Ottawa, Ont.	Dr. G. M. Goldert	434.5	690	100		
CKCR	George, Ont.	John Patterson	267.7	1120	25		
CKCV	Quebec, Que.	G. A. Vandry	340.7	880	50		
CKCW	Burketon Jct., Ont.	Canadian Broadcasting Corporation	329.5	910	5000		
CKCX	Toronto, Ont.	Int. Bible Students Assn.	291.1	1030	500		
CKFC	Vancouver, B. C.	First Congregational Ch.	410.7	730	50		
CKMC	Cobalt, Ont.	R. L. MacAdam	247.8	1210	5		
CKNC	Toronto, Ont.	Canadian National Carbon Company Ltd.	356.9	840	500		
CKOC	Hamilton, Ont.	Wentworth Radio Supply Co. Ltd.	340.7	880	50		
CKPC	Preston, Ont.	Wallas Rues	247.8	1210	7½		
CKSH	St. Hyacinthe, Que.	City of St. Hyacinthe	312.3	960	50		
CKY	Winnipeg, Man.	Manitoba Tel. System	384.4	780	500		
CNRA	Moncton, N. B.	Canadian Nat'l Railways	322.4	930	500		
CNRC	Calgary, Alta.	Canadian Nat'l Railways	434.5	690	500 } 750 }		
CNRE	Edmonton, Alta.	Canadian Nat'l Railways	516.9	580	500		
CNRM	Montreal, P. Q.	Canadian Nat'l Railways	410.7	730	1000 } 1650 }		
CNRO	Ottawa, Ont.	Canadian Nat'l Railways	434.5	690	500		
CNRR	Regina, Sask.	Canadian Nat'l Railways	312.3	960	500		
CNRS	Saskatoon, Sask.	Canadian Nat'l Railways	329.5	910	500		
CNRT	Toronto, Ont.	Canadian Nat'l Railways	356.9	840	500		
CNRV	Vancouver, B. C.	Canadian Nat'l Railways	291.1	1030	500		
CNRW	Winnipeg, Man.	Canadian Nat'l Railways	384.4	780	500		

DRY CELL BATTERIES IN RADIO

Dry cell batteries are an important part of long distance radio receiving equipment because they are a convenient, economical, and safe source of electrical energy and Burgess Dry Cell Batteries are pre-eminently satisfactory for these purposes.

As is well known, a broadcasting station sends out enormous electrical energy which travels away from the sending antenna at a speed great enough to encircle the earth over seven times in one second. This energy gradually spreads out over an ever increasing circle around the antenna and its strength diminishes rapidly as the distance from the station increases.

With a suitable receiving antenna, either an indoor loop or outside aerial, some of the energy from the sending station can be collected. At distances from the sending station the collected energy is such an infinitesimal quantity that it cannot operate any of the electrical apparatus, such as telephones through which the signals should be heard. If the receiving set can add energy to that obtained from the antenna, it will be possible to operate not only telephones but loud speakers and other devices. Dry cell batteries provide this extra energy, and it is regulated through the receiving set by the sending station energy collected from the antenna.

The throttling or transformation of the battery energy into sound in the headsets, for example, is done by the vacuum tubes in a very involved manner. The "A" or filament battery donates its energy to the set by lighting the filament of the tube and providing a path for the energy from the "B" or plate battery to flow through the tube and to the phones or loud speaker.

For good results through the receiving set, the dry cell batteries must have certain characteristics, for example, a large energy capacity so that they can be used intensively or produce a loud sound, availability to hold their energy and not allow it to leak out even when they are in use, a constancy of delivery of energy so it can be easily and smoothly controlled by the receiving set, a smoothness of discharge into the set to prevent interference with the control.

The energy of a battery is proportional to its voltage and its current. The "A" battery energy is generally provided at a low voltage and a high current. The "B" battery energy, on the other hand, is supplied at a higher voltage and low current; both, however, are necessary in a receiving set. Increasing the "A" battery energy will put more into the set but it will not and cannot replace the "B" battery energy which must also be there in suitable quantity.

Some sets contain several tubes as detectors and amplifiers, but the general conditions above stated always hold true. The several tubes may make it possible to detect smaller antenna energy or obtain a better selection of incoming signals, but to obtain more sound, more energy will always be required, and this means either more batteries or more energy drawn from the batteries.

Dry cell batteries have certain characteristics which should be here mentioned. A dry cell consists of a zinc container filled with active chemicals, in the center of which is a brass-capped carbon rod. The zinc can is the negative (-) pole or electrode and the center carbon is the positive (+) pole or electrode. The voltage of a dry cell is about 1.5 volts when it is not in circuit (open circuit voltage) and it is lower when it is in circuit (closed circuit voltage), depending on the cell resistance and the resistance of the circuit to which it is connected.

"A" BATTERIES

The first vacuum tubes required storage batteries on the "A" or filament circuit because of the large amount of energy required by these tubes. Many tubes are now on the market which operate the entire set on dry cell batteries. The voltage and current requirements of these tubes varies with their type, and information concerning them is furnished with the tube by the manufacturers.

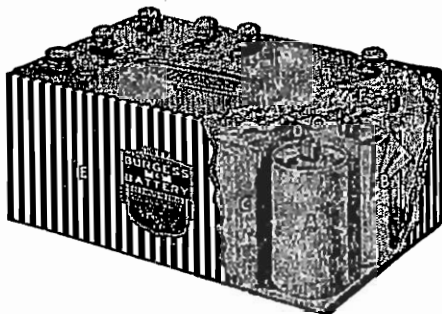
Originally, the ordinary six-inch Ignition Dry Cell was used as an "A" battery with these tubes and with fair success. The Burgess Battery Company, however, as soon as the dry cell vacuum tubes began to appear, saw the need of an improved dry "A" battery. This problem was solved and the Burgess No. 6 Radio "A" Battery is the result.

This battery is especially designed for the "A" circuit of dry cell vacuum tubes and tests have shown that for this purpose it will furnish approximately double the hours of service that will be furnished by an ordinary No. 6 Ignition Cell. Furthermore, after the voltage of this battery has dropped below the tube voltage rating, the battery can be used for ordinary dry cell work.

The unique characteristics of this battery are secured by a special mixture of chemicals, a low resistance lining between the chemicals and the zinc. This battery maintains a high average discharge voltage and currents as high as 0.25 ampere while in service and has but small depreciation or loss of energy when not in use.

"B" BATTERIES

Burgess "B" Batteries are an assembly of small specially designed dry cells soldered together in series to produce the high voltage necessary for the vacuum tube. These batteries have been "the standard of quality in the radio field" since 1917, and the accompanying illustration shows some of the unique construction of these batteries.



"A" is the Burgess one-piece seamless zinc can which requires heavier, more pure and more uniform metal than a soldered can, all of which add to the life of the cell. Also, it prevents any leakage through a weak joint and eliminates voltage differences on the inside of the can, a condition which might cause stray currents and potential differences and results in noisy voltage fluctuations and short-lived battery.

"B" is the moisture-proof wrapper around each cell, one of the ways in which individual insulation is secured.

"C" is a sealing material between cells to provide additional insulation and prevent movement between cells.

"D" is the waterproof partition between cells, another feature in the individual cell insulation and a means of confining internal moisture due to cell discharge within the compartment.

"E" is the heavy waterproof non-metallic insulating material, the first line of defense against moisture getting into the battery. As it is non-conducting, it will not collect stray currents and produce capacity effects between adjacent batteries.

"F" is the heavy triple seal over the top, another factor of safety which adds to the strength of the battery and increases the moisture-proof qualities.

"G" is the webbing between seals, adding to the strength of the top.

The features which cannot be shown in the picture are as good as those enumerated above. They include a special mix or combination of chemicals, the results of much research work, a critical selection of raw materials, the best of manufacturing methods and a most rigid technical control.

All Burgess "B" Batteries embody the same features of construction. There is no difference in the quality of the energy furnished. The largest sizes of batteries give the greatest energy or hours of service. The higher voltage batteries are simply the equivalent of what a radio listener would get by connecting a number of "B" batteries in series. We advise in all cases that single units of 22.5 volts be used in place of the higher voltage units, as this permits a shifting of the various batteries as they become unequally discharged.

"C" BATTERIES

Another type of battery which is coming into more general use is the "C" battery required on some vacuum tubes operating generally as amplifiers. A "C" battery is connected between the filament and the grid to give the grid a different potential or "bias." The requirements of a "C" circuit call for a steady voltage, a low resistance and a long-lived battery, which requirements are amply met in the Burgess "C" Batteries. These batteries are built with the same construction as the Burgess "B" Batteries and have been worked satisfactorily for all "C" use.

RADIO DRY CELL BATTERIES FOR VACUUM TUBES

The tables in the following pages contain data on tubes and batteries obtained from various sources, including test data of the Burgess Battery Company.

For convenience, "B" batteries are classified into three groups according to their weight of 22.5 volt units. Reference in Table IV is to the following:

- 1 lb. class No. 4156 "B" battery.
- 2 lb. class No. 5156, 5158, 5308 "B" battery.
- 5 lb. class No. 2156, 2158, 2306, 2308 "B" battery.
- 7 lb. class No. 10308 "B" battery.
- 8 lb. class No. 21308 "B" battery.

TABLE I
Dry Cell "A" Batteries for Various Vacuum Tubes

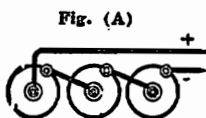
VACUUM TUBE CHARACTERISTICS.	CLASSIFICATION OF TUBES WITH RESPECT TO NECESSARY BATTERIES AND TUBE FILAMENT CURRENT		DRY CELL BATTERY TUBES			Storage Battery Tubes
			Low Current	High Current		
Vacuum Tube Style Number	UV-199 C-299 DV-3		WD 11 WD 12	UV-201A C-301A DV-2	UV-200 C-300	
Filament Working Volts	3.0 0.06 (DV-3 0.07)		1.1	5.0	5.0	
Filament Amperes	(DV-3A 0.7) 30		0.25	0.25	1.0	
Rheostat Ohms			6	15 to 30	6	
"A" Battery Volts (Filament Battery)	4.5		1.5	6.0	6.0	
NUMBER OF BURGESS "A" BATTERIES REQUIRED	Number of Series No. 6 "A" Batteries to provide proper voltage		3	1	4	
	Number of Parallel No. 6 "A" Batteries to provide proper current capacity		1 for every 4 tubes	1 for every 1 tube	1 for every 1 tube	
	Smallest possible number of No. 6 "A" Batteries	for 1 tube	3 Fig.(A)	1 Fig.(C)	4 Fig.(B)	Not A Dry Cell Battery Tube.
		for 2 tubes	3 Fig.(A)	2 Fig.(D)	8 Fig.(J)	
		for 3 tubes	3 Fig.(A)	3 Fig.(E)	12 Fig.(K)	
Smallest possible number of No. 232 or No. 2370 Batteries in parallel.	for 4 tubes	3 Fig.(A)	4 Fig.(F)	16 Fig.(L)		
	for 5 tubes	6 Fig.(I)	5 Fig.(G)	20 Fig.(M)		
	for 6 tubes	6 Fig.(I)	6 Fig.(H)	24 Fig.(N)		
		Not used with these Batteries.				

TABLE II
Approximate Hours of Service of "A" Batteries
Number of batteries and connections as shown in Table I

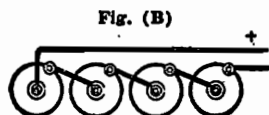
BURGESS BATTERIES	VACUUM TUBE STYLE NUMBER	UV-199 C-299 DV-3 DV-3A		WD-11 WD-12		UV-201 A C-301 A DV-2		UV-200 C-300
		Tube Amps.	Hrs.	Tube Amps.	Hrs.	Tube Amps.	Hrs.	
No. 6 "A"	for 1 tube	0.06	700	0.25	110	0.25	110	Not a Dry Battery Tube
	2 tubes	0.12	300	0.50	110	0.50	110	
	3 tubes	0.18	180	0.75	110	0.75	110	
	4 tubes	0.24	150	1.00	110	1.00	110	
	5 tubes	0.30	240	1.25	110	1.25	110	
	6 tubes	0.36	180	1.50	110	1.50	110	
No. 232 No. 2370	1 tube	0.06	95	Not used with these Batteries				
	2 tubes	0.12	95					
	3 tubes	0.18	95					
	4 tubes	0.24	95					
	5 tubes	0.30	95					
	6 tubes	0.36	95					

SERIES CONNECTIONS

By connecting the (+) of one cell to the (-) of the next adds the voltages but does not affect the current which can be withdrawn.

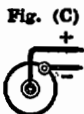


4.5 Volts



6.0 Volts

PARALLEL CONNECTIONS

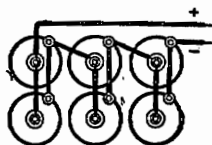


All 1.5 Volt.

By connecting the (+) of one cell to the (+) of the next and the (-) to the (-) has no effect on the voltages but increases the current which can be withdrawn.

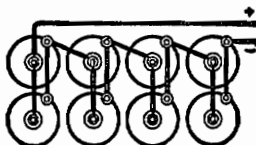
PARALLEL-SERIES CONNECTIONS

Fig. (I)



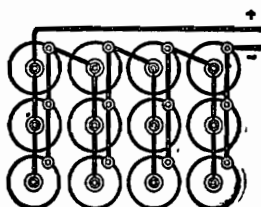
4.5 Volts

Fig. (J)



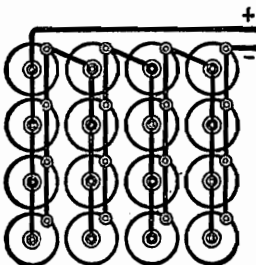
6.0 Volts

Fig. (K)



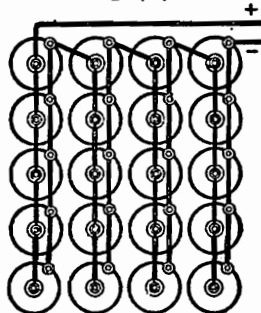
6.0 Volts

Fig. (L)



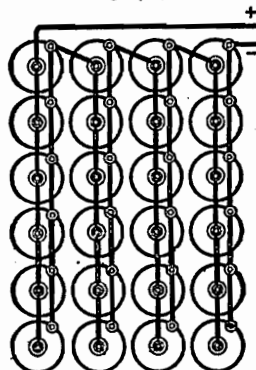
6.0 Volts

Fig. (M)



6.0 Volts

Fig. (N)



6.0 Volts

Parallel-series connections are combinations of parallel and series as indicated above. Table I shows how these connections are used on various tubes.

In determining the current drain for a radio receiver, rough estimates may be obtained by consideration of the average plate current drain of tubes. The only accurate method to determine the current drain is through the use of a milliammeter as discussed below.

Tubes	Av. Plate Voltage	"C" Voltage	Milliamperes Current Drain
UV-199, C-299	19.5	...	0.2
UV-199, C-299	39.0	...	0.9
UV-199, C-299	78	...	3.4
UV-199, C-299	78	3.0	2.2
UV-199, C-299	78	4.5	1.8
UX-201A, CX-301A	19.5	...	0.3
UX-201A, CX-301A	39.0	...	0.9
UX-201A, CX-301A	78	...	3.8
UX-201A, CX-301A	78	3.0	2.0
UX-201A, CX-301A	78	4.5	1.5
UX-200, CX-300A	19.5	.	1.25
UX-200, CX-300A	39	.	1.75

Power amplifiers are operated at a higher plate voltage and require the use of high "C" voltage batteries. The use of recommended "C" voltages should be adhered to at all times, for not only will improved reception result but also greater economy will be effected.

Tubes	Initial Plate Voltage	"C" Voltage	Milliamperes Current Drain
UX-112, CX-112	90	6	2.4
UX-112, CX-112	135	9	5.3
UX-120, CX-220	90	16.5	3.2
UX-120, CX-220	135	22.5	7.0
UX-171, CX-371	90	16.5	11.0
UX-171, CX-371	135	27.0	16.0

The Burgess No. 5156 is provided with sufficient taps to facilitate its use for high "C" voltages. This battery is marked plainly for "C" battery use. In combination with the Burgess No. 5540 the required high "C" voltages may be obtained.

Use a milliammeter to check the actual current drain of a radio set. It is not possible to accurately determine the current by considering the average drain of the tubes. Always use a milliammeter, for it is possible to adjust the "B" and "C" voltages for improved and economical reception. This meter likewise makes it possible to find and check defective units. When used, the milliammeter should be inserted directly in the circuit under observation.

TABLE IV
Approximate Hours of Service of "B" Batteries

Average Service Hours at Various Current Drains	Current Milliamperes	Class of "B" Battery				
		8 Pound	7 Pound	5 Pound	2 Pound	1 Pound
2		2400 Hrs.	2400 Hrs.	1800 Hrs.	900 Hrs.	350 Hrs.
5		2400 Hrs.	2000 Hrs.	1000 Hrs.	300 Hrs.	100 Hrs.
8		1750 Hrs.	1250 Hrs.	500 Hrs.	140 Hrs.	
10		1400 Hrs.	1000 Hrs.	400 Hrs.	110 Hrs.	
15		870 Hrs.	600 Hrs.	230 Hrs.		
20		600 Hrs.	400 Hrs.	150 Hrs.		
30		335 Hrs.	215 Hrs.	75 Hrs.		

The Super "B" Battery



has been developed in the same laboratories that developed the first "B" battery. Burgess engineers have been tireless in their efforts to give to the radio fan the "B" battery which best serves his purpose. The Super "B" battery is everything that its name implies.

ASK ANY RADIO ENGINEER

