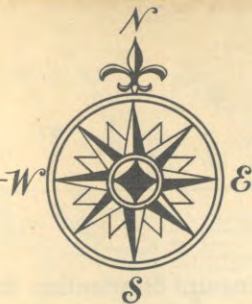




MIDDLETON'S PORTABLE RADIO
SERVICE
1337 Stever St. Flint, Mich.
Phone 2-6083

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WORLD RADIO LOG
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TUNG-SOL

WORLD RADIO LOG

How to Get the Best That's on the Air at Home and Abroad

By CLYDE C. BOHNER

Vice-President in Charge of Engineering

Whatever your radio set, remember it is your contact with the wonder world of radio. Broadcasting is being constantly improved by an army of fine technicians. Receiving sets are keeping step in the march of radio progress. If you haven't a good set, get one. It's an investment that will pay you rich dividends in entertainment, education and keeping in touch with current events. If you have a good set, keep it good. It's easy for the ear to become accustomed to reception that gradually gets poorer. With millions of dollars being spent on broadcasts for you to receive free, it is poor economy to put up with anything short of the best reception. Have your set inspected regularly.

The modern radio set is a very complicated mechanism and, like the modern automobile, requires proper servicing. The average radio set is probably in use many more hours a day than the

UNITED STATES BROADCASTING STATIONS

ALPHABETICALLY BY CALL LETTERS

Call	Kc.	Location	Kw.	Call	Kc.	Location	Kw.
KABC	1420	San Antonio, Texas	.1	KFRU	630	Columbia, Mo.	.5
KABR	1420	Aberdeen, S. D.	.1	KFSO	600	San Diego, Calif.	1.
KADA	1200	Ada, Okla.	.1	KFSG	1120	Los Angeles, Calif.	.5
KALB	1420	Alexandria, La.	.1	KFUD	550	Clayton, Mo.	.5
KALE	1300	Portland, Ore.	.5	KFVJ	1000	Los Angeles, Calif.	.25
KANS	1210	Wichita, Kans.	.1	KFVS	1210	Cape Girardeau, Mo.	.1
KARK	890	Little Rock, Ark.	.25	KFWB	950	Hollywood, Calif.	1.
KASA	1210	Elk City, Okla.	.1	KFXD	1200	Nampa, Idaho	.1
KAST	1370	Astoria, Ore.	.1	KFXJ	1200	Grand Junction, Colo.	.1
KBIX	1500	Muskogee, Okla.	.1	KFXM	1210	San Bernardino, Calif.	.1
KBPS	1420	Portland, Ore.	.1	KFXX	1310	Oklahoma City, Okla.	.1
KBTM	1200	Jonesboro, Ark.	.1	KFYU	1310	Lubbock, Texas	.1
KCMC	1420	Texarkana, Ark.	.1	KFYR	550	Bismarck, N. Dakota	1.
KCMO	1370	Kansas City, Mo.	.1	KGA	1470	Spokane, Wash.	5.
KCRC	1360	Enid, Okla.	.25	KGAR	1370	Tucson, Ariz.	1.
KCRJ	1310	Jerome, Ariz.	.1	KGB	1330	San Diego, Calif.	.1
KDB	1500	Santa Barbara, Calif.	.1	KGBU	900	Ketchikan, Alaska	.5
KDFN	1440	Casper, Wyo.	.5	KGBX	1230	Springfield, Mo.	.5
KDKA	980	Pittsburgh, Pa.	50.	KGCA	1270	Decorah, Iowa	.1
KDLR	1210	Devils Lake, N. Dak.	.1	KGCC	1240	Mandan, N. Dakota	.25
KDON	1210	Del Monte, Calif.	.1	KGCC	1310	Wolf Point, Montana	.1
KDYL	1290	Salt Lake City, Utah	1.	KGDE	1200	Fergus Falls, Minn.	.1
KECA	1430	Los Angeles, Calif.	1.	KGDM	1100	Stockton, Calif.	1.
KEHE	780	Los Angeles, Calif.	.5	KGDY	1340	Huron, S. Dak.	.25
KELD	1370	N. El Dorado, Ark.	.1	KGEE	1200	Sterling, Colo.	.1
KELW	780	Burbank, Calif.	.5	KGER	1360	Long Beach, Calif.	1.
KERN	1370	Bakersfield, Calif.	.1	KGEZ	1310	Kalispell, Mont.	.1
KEX	1180	Portland, Ore.	5.	KGFF	1420	Shawnee, Okla.	.1
KFAB	770	Lincoln, Nebr.	10.	KGFG	1370	Oklahoma City, Okla.	.1
KFAC	1300	Los Angeles, Calif.	1.	KGFI	1500	Corpus Christi, Texas	.1
KFBZ	1280	Great Falls, Montana	1.	KGFL	1200	Los Angeles, Calif.	.1
KFBI	1050	Abilene, Kansas	5.	KGFK	1500	Moorhead, Minn.	.1
KFBK	1490	Sacramento, Calif.	5.	KGLF	1370	Roswell, N. Mex.	.1
KFDM	560	Beaumont, Texas	.5	KGFV	1310	Kearney, Nebr.	.1
KFDY	780	Brookings, South Dak.	1.	KGFY	630	Pierre, S. Dak.	.2
KFEL	920	Denver, Colo.	.5	KGGC	1420	San Francisco, Calif.	.1
KFEO	680	St. Joseph, Mo.	2.5	KGGF	1010	Coffeyville, Kansas	1.
KFGO	1370	Boone, Iowa	.1	KGGM	1230	Albuquerque, N. Mex.	.25
KFH	1300	Wichita, Kansas	1.	KGHF	1320	Pueblo, Colo.	.5
KFI	640	Los Angeles, Calif.	50.	KGHI	1200	Little Rock, Ark.	.1
KFIO	1120	Spokane, Wash.	.1	KGHL	780	Billings, Mont.	.1
KFIZ	1420	Fond du Lac, Wis.	.1	KGHR	1340	Butte, Mont.	1.
KFJB	1200	Marshalltown, Iowa	.1	KGIW	1420	Alamosa, Colo.	.1
KFJL	1210	Klamath Falls, Ore.	.1	KGKB	1500	Tyler, Texas	.1
KFJM	1370	Grand Forks, N. Dak.	.1	KGKL	1370	San Angelo, Texas	.1
KFJR	1300	Portland, Ore.	.5	KGKO	570	Wichita Falls, Texas	.25
KFJZ	1370	Fort Worth, Texas	.1	KGKY	1500	Scottsbluff, Nebraska	.1
KFKA	880	Greeley, Colo.	.5	KGMB	1320	Honolulu, Hawaii	.25
KFKU	1290	Lawrence, Kansas	1.	KGNC	1410	Amarillo, Texas	1.
KFOR	890	Shenandoah, Iowa	.5	KGNF	1430	North Platte, Nebr.	1.
KFOX	1250	Lincoln, Nebr.	.1	KGNO	1340	Dodge City, Kansas	.25
KFPL	1310	Long Beach, Calif.	1.	KGO	790	San Francisco, Calif.	7.5
KFPW	1210	Ft. Smith, Ark.	.1	KGUJ	750	Honolulu, Hawaii	2.5
KFPY	890	Spokane, Wash.	.1	KGVO	1260	Missoula, Mont.	1.
KFOD	780	Anchorage, Alaska	.25	KGVW	620	Portland, Ore.	1.
KFRC	610	San Francisco, Calif.	1.	KGWA	1400	Olympia, Wash.	.1
KFRO	1370	Longview, Texas	.1	KGY	1400	Hilo, Hawaii	.25
				KHBC	900	Los Angeles, Calif.	1.
				KHJ			



Lawrence Tibbett
N. B. C.



Alexander Woolcott
C. B. S.



Fred Astaire
N. B. C.



Peg La Centra
N. B. C.

Call	Kc.	Location	Kw.	Call	Kc.	Location	Kw.
KHO	590	Spokane, Wash.	1.	KRLD	1040	Dallas, Texas	10.
KHSL	950	Chico, Calif.	.25	KRLH	1420	Midland, Texas	.1
KICA	1370	Clovis, N. Mex.	.1	KRMD	1310	Shreveport, La.	.1
KID	1320	Idaho Falls, Idaho	.25	KRNR	1500	Roseburg, Ore.	.1
KIDO	1350	Boise, Idaho	1.	KRNT	1320	Des Moines, Iowa	.5
KIDW	1420	Lamar, Colo.	.1	KROC	1310	Rochester, Minn.	.1
KIEM	1450	Eureka, Calif.	.5	KROW	930	Oakland, Calif.	1.
KIEV	850	Glendale, Calif.	.25	KROA	1310	Santa Fe, N. Mex.	.1
KINY	1310	Juneau, Alaska	.1	KRSC	1120	Seattle, Wash.	.1
KIT	1310	Yakima, Wash.	.1	KSCA	580	Manhattan, Kan.	.5
KIUL	1210	Garden City, Kans.	.1	KSCJ	1330	Sioux City, Iowa	1.
KIUN	1420	Pecos, Texas	.1	KSD	550	St. Louis, Mo.	1.
KIUP	1370	Durango, Colo.	.1	KSEI	900	Pocatello, Idaho	.25
KJBS	1070	San Francisco, Calif.	.5	KSFO	560	San Francisco, Calif.	1.
KJBR	970	Seattle, Wash.	5.	KSL	1130	Salt Lake City, Utah	50.
KLCN	1290	Blytheville, Ark.	.1	KSLM	1370	Salem, Ore.	.1
KLO	1400	Ogden, Utah	.5	KSO	1430	Des Moines, Iowa	.5
KLPM	1240	Minot, N. Dakota	.25	KSOO	1110	Sioux Falls, S. Dakota	2.5
KLRA	1390	Little Rock, Ark.	1.	KSTP	1460	St. Paul, Minn.	10.
KLS	1440	Oakland, Calif.	.25	KSUN	1200	Lowell, Ariz.	.1
KLUF	1370	Galveston, Texas	.1	KTAR	620	Phoenix, Ariz.	1.
KLX	880	Oakland, Calif.	1.	KTAT	1240	Fort Worth, Texas	1.
KLZ	560	Denver, Colo.	1.	KTBS	1450	Shreveport, La.	1.
KMA	930	Shenandoah, Iowa	1.	KTFI	1240	Twin Falls, Idaho	1.
KMAC	1370	San Antonio, Texas	.1	KTHS	1040	Hot Springs, N. P., Ark.	10.
KMBC	950	Kansas City, Mo.	1.	KTRE	740	Modesto, Calif.	.25
KMED	1410	Medford, Ore.	.25	KTRH	1290	Houston, Texas	1.
KMJ	580	Fresno, Calif.	1.	KTSA	550	San Antonio, Texas	1.
KMLB	1200	Monroe, La.	.1	KTSM	1310	El Paso, Texas	.1
KMMJ	740	Clay Center, Nebr.	1.	KTUL	1400	Tulsa, Okla.	.5
KMO	1330	Tacoma, Wash.	.25	KTW	1220	Seattle, Wash.	1.
KMXP	1090	St. Louis, Mo.	50.	KUJ	1370	Walla Walla, Wash.	.1
KMPC	710	Beverly Hills, Calif.	.5	KUMA	1420	Yuma, Ariz.	.1
KMTR	570	Los Angeles, Calif.	1.	KUOA	1260	Siloam Springs, Ark.	1.
KNEL	1500	Brady, Texas	.1	KUSD	890	Vermillion, S. D.	.5
KNET	1420	Palestine, Texas	.1	KVI	570	Tacoma, Wash.	1.
KNOW	1500	Austin, Texas	.1	KVL	1370	Seattle, Wash.	.1
KNX	1050	Los Angeles, Calif.	50.	KVOA	1260	Tucson, Ariz.	.5
KOA	830	Denver, Colo.	50.	KVOD	920	Denver, Colo.	.5
KOAC	550	Corvallis, Ore.	1.	KVOE	1500	Santa Ana, Calif.	.1
KOB	1180	Albuquerque, N. Mex.	10.	KVOL	1310	Lafayette, La.	.1
KOH	1380	Reno, Nev.	.5	KVOO	1140	Tulsa, Okla.	.25
KOIL	1260	Omaha, Nebr.	1.	KVOR	1270	Colorado Spgs., Colo.	1.
KOIN	940	Portland, Ore.	1.	KVOS	1200	Bellingham, Wash.	.1
KOL	1270	Seattle, Wash.	1.	KVSC	1200	San Diego, Calif.	.1
KOMA	1480	Oklahoma City, Okla.	5.	KVSO	1210	Ardmore, Okla.	.1
KOMO	920	Seattle, Wash.	1.	KWBG	1420	Hutchinson, Kans.	.1
KONO	1370	San Antonio, Texas	.1	KWG	1200	Stockton, Calif.	.1
KOOS	1390	Marshfield, Ore.	.25	KWJJ	1060	Portland, Ore.	.5
KORE	1420	Eugene, Ore.	.1	KWK	1350	St. Louis, Mo.	1.
KOTN	3500	Pine Bluff, Ark.	.1	KWKH	850	Shreveport, La.	10.
KOY	1390	Phoenix, Ariz.	.5	KWLK	1270	Decorah, Iowa	.1
KPAC	1260	Port Arthur, Texas	.5	KWSC	1220	Pullman, Wash.	1.
KPDN	1310	Pampa, Texas	.1	KWTN	1210	Watertown, S. Dak.	1.
KPLC	1500	Lake Charles, La.	.1	KWYO	560	Springfield, Mo.	1.
KPO	680	San Francisco, Calif.	50.	KXA	760	Sheridan, Wyo.	.1
KPOT	880	Denver, Colo.	.5	KXL	1420	Portland, Ore.	.1
KPPC	1210	Pasadena, Calif.	.1	KXO	1500	El Centro, Calif.	.1
KPO	1500	Wenatchee, Wash.	.1	KXRO	1310	Aberdeen, Wash.	.1
KPRC	920	Houston, Texas	1.	KXYZ	1440	Houston, Texas	1.
KQV	1380	Pittsburgh, Pa.	.5	KYA	1230	San Francisco, Calif.	1.
KOW	1010	San Jose, Calif.	1.	KYW	1020	Philadelphia, Pa.	10.
KRE	1370	Berkeley, Calif.	.5	WAAB	1410	Boston, Mass.	.5
KRGV	1260	Weslaco, Texas	.5	WAAP	920	Chicago, Ill.	1.
KRKO	1120	Los Angeles, Calif.	.5	WAAT	940	Jersey City, N. J.	.5
KRKO	1370	Everett, Wash.	.05	WAAP	660	Omaha, Nebr.	.5
KRLC	1420	Lewiston, Idaho	.1				



Joe Cook
N. B. C.



Muriel Wilson
N. B. C.



Jessica Dragonette
C. B. S.



Emery Deutsch
C. B. S.



Dr. Walter Damosch
N. B. C.



Ruth Etting
N. B. C.



Jesse Block and
Eve Sully
C. B. S.



Phil Baker
C. B. S.

Call	Kc.	Location	Kw.	Call	Kc.	Location	Kw.
WABC	860	New York, N. Y.	50.	WCNW	1500	Brooklyn, N. Y.	.1
WBOQ				WCOC	1340	Pensacola, Fla.	.5
WABI	1200	Bangor, Maine	.1	WCOA	880	Meridian, Miss.	.5
WABY	1370	Albany, N. Y.	.1	WCOL	1120	Columbus, Ohio	.1
WACO	1420	Waco, Texas	.1	WCOP	1120	Boston, Mass.	.5
WADC	1320	Tallmadge, Ohio	1.	WCPO	1200	Cincinnati, Ohio	.1
WAGF	1370	Dothan, Ala.	.25	WCRCW	1210	Chicago, Ill.	.1
WAGM	1420	Presque Isle, Maine	.1	WCSC	1360	Charleston, S. C.	.5
WAIM	1200	Anderson, S. C.	.1	WCSE	940	Portland, Maine	1.
WALA	1380	Mobile, Ala.	.5	WDAE	1220	Tampa, Fla.	1.
WALR	1210	Zanesville, Ohio	.1	WDAF	610	Kansas City, Mo.	1.
WAML	1310	Laurel, Miss.	.1	WDAH	1310	El Paso, Texas	.1
WAPI	1140	Birmingham, Ala.	5.	WDAS	1370	Philadelphia, Penna.	.1
WARD	1400	Brooklyn, N. Y.	.5	WDAY	940	Fargo, N. Dakota	1.
WASH	1270	Grand Rapids, Mich.	.5	WDBJ	930	Roanoke, Va.	1.
WATL	1370	Atlanta, Ga.	.1	WDBO	580	Orlando, Fla.	1.
WATR	1190	Waterbury, Conn.	.1	WDEL	1120	Wilmington, Del.	.25
WAVE	940	Louisville, Ky.	1.	WDEV	550	Waterbury, Vt.	.5
WAWZ	1350	Zarephath, N. J.	.5	WDGY	1180	Minneapolis, Minn.	1.
WAZL	1420	Hazleton, Penna.	.1	WDNC	1500	Durham, N. C.	.1
WBAA	890	West Lafayette, Ind.	.1	WDOD	1280	Chattanooga, Tenn.	1.
WBAL	1060	Baltimore, Md.	10.	WDRC	1330	Hartford, Conn.	1.
WBAP	800	Fort Worth, Texas	50.	WDSU	1250	New Orleans, La.	1.
WBAX	1210	Wilkes-Barre, Penna.	.1	WDZ	1020	Tuscola, Ill.	.25
WBBC	1400	Brooklyn, N. Y.	.5	WEAF	660	New York, N. Y.	50.
WBBL	1210	Richmond, Va.	.1	WEAN	780	Providence, R. I.	.5
WBMM	770	Chicago, Ill.	50.	WEBC	1290	Superior, Wis.	1.
WBRR	1300	Brooklyn, N. Y.	1.	WEBO	1210	Harrisburg, Ill.	.1
WBZZ	1200	Ponca City, Okla.	.1	WEBR	1310	Buffalo, N. Y.	.1
WBCM	1410	Bay City, Mich.	.5	WEDC	1210	Chicago, Ill.	.1
WBN	900	Buffalo, N. Y.	1.	WEED	1420	Rocky Mount, N. C.	.1
WBEO	1310	Marquette, Mich.	.1	WEEL	590	Boston, Mass.	1.
WBIG	1440	Greensboro, N. C.	.5	WEUU	830	Reading, Penna.	1.
WBNO	1200	New Orleans, La.	.1	WEHS	1420	Cicero, Ill.	.1
WBNS	1430	Columbus, Ohio	.5	WELI	900	New Haven, Conn.	.5
WBNX	1350	New York, N. Y.	1.	WELL	1420	Battle Creek, Mich.	.1
WBNY	1370	Buffalo, N. Y.	.1	WEMP	1310	Milwaukee, Wisc.	.1
WBOW	1310	Terre Haute, Ind.	.1	WENR	870	Chicago, Ill.	50.
WBRR	1210	Red Bank, N. J.	.1	WEOA	1370	Evansville, Ind.	.1
WBRC	930	Birmingham, Ala.	.1	WESG	1040	Elmira, N. Y.	1.
WBRE	1310	Wilkes-Barre, Pa.	1.	WEST	1200	Easton, Pa.	.1
WBT	1080	Charlotte, N. C.	50.	WEVD	1300	New York, N. Y.	1.
WBTM	1370	Danville, Va.	.1	WEW	760	St. Louis, Mo.	1.
WBZ	990	Boston, Mass.	50.	WEXL	1310	Royal Oak, Mich.	.05
WBZA	990	Boston, Mass.	1.	WFAA	800	Dallas, Texas	50.
WCAD	1220	Canton, N. Y.	.5	WFAB	1300	New York, N. Y.	1.
WCAE	1220	Pittsburgh, Pa.	1.	WFAM	1200	South Bend, Ind.	.1
WCAL	1250	Northfield, Minn.	.1	WFAS	1210	White Plains, N. Y.	.1
WCAM	1280	Camden, N. J.	.5	WFBC	1300	Greenville, S. C.	1.
WCAP	600	Baltimore, Md.	.5	WFBG	1310	Altoona, Pa.	.1
WCAP	1280	Asbury Park, N. J.	.5	WFBL	1360	Syracuse, N. Y.	1.
WCAT	1200	Rapid City, S. Dak.	.1	WFBR	1230	Indianapolis, Ind.	1.
WCAU	1170	Philadelphia, Pa.	50.	WFBM	1270	Baltimore, Md.	.5
WCAZ	1200	Burlington, Vt.	.1	WFDF	1310	Flint, Mich.	.1
WCBA	1070	Carthage, Ill.	.1	WFEE	1340	Manchester, N. H.	.5
WCBB	1440	Allentown, Penna.	.5	WFIL	560	Philadelphia, Pa.	1.
WCBD	1080	Waukegan, Ill.	.5	WFLLA	620	Clearwater, Fla.	1.
WCBE	1370	Baltimore, Md.	.1	WSUN			
WCBS	1420	Springfield, Ill.	.1	WFMD	900	Frederick, Md.	.5
WCCO	610	Minneapolis, Minn.	50.	WFOR	1370	Hattiesburg, Miss.	.1
WCFL	970	Chicago, Ill.	5.	WGAL	1500	Lancaster, Pa.	.1
WCHS	580	Charleston, W. Va.	.5	WGAR	1450	Cleveland, Ohio	.5
WCHV	1420	Charlottesville, Va.	.1	WGBB	1210	Freeport, N. Y.	.1
WCKY	1490	Covington, Ky.	.5	WGBF	630	Evansville, Ind.	.5
WCLO	1200	Janesville, Wis.	.1	WGBI	880	Scranton, Pa.	.5
WCLS	1310	Joliet, Ill.	.1	WGCM	1210	Mississippi City, Miss.	.1
WCMI	1310	Ashland, Ky.	.1	WGES	1360	Chicago, Ill.	.5

Call	Kc.	Location	Kw.	Call	Kc.	Location	Kw.
WJAY	610	Cleveland, Ohio	.5	WJBC	1200	Bloomington, Ill.	.1
WJBB	1500	Detroit, Mich.	.1	WJBL	1200	Decatur, Ill.	.1
WJBO	1420	Baton Rouge, La.	.1	WJBR	1200	New Orleans, La.	.1
WJBW	1200	New Orleans, La.	.1	WJBY	1210	Gadsden, Ala.	.1
WJBT	1210	Jackson, Miss.	1.	WJDX	1270	Jackson, Miss.	1.
WJED	1210	Hagerstown, Md.	.1	WJEM	1210	Lansing, Mich.	.1
WJIM	1210	Lansing, Mich.	.1	WJJD	1130	Chicago, Ill.	20.
WJLD	1420	Ironwood, Mich.	.1	WJMO	1200	West Palm Beach, Fla.	.1
WJNO	1200	West Palm Beach, Fla.	.1	WJNR	750	Detroit, Mich.	50.
WJNS	1460	Alexandria, Va.	10.	WJNW	1210	Akron, Ohio	.1
WJOW	1210	Akron, Ohio	.1	WJW	760	New York, N. Y.	50.
WJW	1240	San Juan, Puerto Rico	1.	WKAR	850	East Lansing, Mich.	1.
WKAR	850	East Lansing, Mich.	1.	WKBB	1500	East Dubuque, Ill.	.1
WKBB	1500	East Dubuque, Ill.	.1	WKBE	1380	La Crosse, Wis.	1.
WKBI	1420	Cicero, Ill.	.1	WKBN	570	Youngstown, Ohio	.5
WKBN	570	Youngstown, Ohio	.5	WKBO	1200	Harrisburg, Pa.	.1
WKBO	1200	Harrisburg, Pa.	.1	WKBV	1500	Richmond, Ind.	.1
WKBV	1500	Richmond, Ind.	.1	WKBW	1480	Buffalo, N. Y.	.5
WKBW	1480	Buffalo, N. Y.	.5	WKBY	1500	Muskegon, Mich.	1.
WKBY	1500	Muskegon, Mich.	1.	WKBU	1500	Griffin, Ga.	.1
WKBU	1500	Griffin, Ga.	.1	WKCK	1210	Sunbury, Pa.	.5
WKCK	1210	Sunbury, Pa.	.5	WKCR	550	Cincinnati, Ohio	1.
WKCR	550	Cincinnati, Ohio	1.	WKCY	900	Oklahoma City, Okla.	1.
WKCY	900	Oklahoma City, Okla.	1.	WKDZ	590	Kalamazoo, Mich.	1.
WKDZ	590	Kalamazoo, Mich.	1.	WLAC	1470	Nashville, Tenn.	5.
WLAC	1470	Nashville, Tenn.	5.	WLAK	1310	Lakeland, Fla.	.1
WLAK	1310	Lakeland, Fla.	.1	WLAP	1420	Lexington, Ky.	.1
WLAP	1420	Lexington, Ky.	.1	WLBB	1250	Minneapolis, Minn.	1.
WLBB	1250	Minneapolis, Minn.	1.	WLBC	1310	Muncie, Ind.	.1
WLBC	1310	Muncie, Ind.	.1	WLBF	1310	Kansas City, Kans.	.1
WLBF	1310	Kansas City, Kans.	.1	WLBL	900	Stevens Point, Wis.	2.5
WLBL	900	Stevens Point, Wis.	2.5	WLBZ	620	Bangor, Maine	.5
WLBZ	620	Bangor, Maine	.5	WLEU	1420	Erie, Pa.	.1
WLEU	1420	Erie, Pa.	.1	WLH	1370	Lowell, Mass.	.1
WLH	1370	Lowell, Mass.	.1	WLNH	1310	Laconia, N. H.	.1
WLNH	1310	Laconia, N. H.	.1	WLS	870	Chicago, Ill.	50.
WLS	870	Chicago, Ill.	50.	WLTH	1400	Brooklyn, N. Y.	.5
WLTH	1400	Brooklyn, N. Y.	.5	WLVA	1200	Lynchburg, Va.	.1
WLVA	1200	Lynchburg, Va.	.1	WLW	700	Cincinnati, Ohio	50.
WLW	700	Cincinnati, Ohio	50.	WLWL	1100	New York, N. Y.	5.
WLWL	1100	New York, N. Y.	5.	WMAL	670	Washington, D. C.	.25
WMAL	670	Washington, D. C.	.25	WMAQ	630	Chicago, Ill.	50.
WMAQ	630	Chicago, Ill.	50.	WMAS	1420	Springfield, Mass.	1.
WMAS	1420	Springfield, Mass.	1.	WMAZ	1180	Macon, Ga.	.1
WMAZ	1180	Macon, Ga.	.1	WMBC	1420	Detroit, Mich.	.1
WMBC	1420	Detroit, Mich.	.1	WMBD	1440	Peoria, Ill.	.5
WMBD	1440	Peoria, Ill.	.5	WMBG	1210	Richmond, Va.	.1
WMBG	1210	Richmond, Va.	.1	WMBH	1420	Joplin, Mo.	.1
WMBH	1420	Joplin, Mo.	.1	WMBI	1080	Chicago, Ill.	5.
WMBI	1080	Chicago, Ill.	5.	WMBO	1310	Auburn, N. Y.	.1
WMBO	1310	Auburn, N. Y.	.1	WMBO	1500	Brooklyn, N. Y.	.1
WMBO	1500	Brooklyn, N. Y.	.1	WMBR	1370	Jacksonville, Fla.	.1
WMBR	1370	Jacksonville, Fla.	.1	WMC	780	Memphis, Tenn.	1.
WMC	780	Memphis, Tenn.	1.				

TUNG-SOL TUBES ARE PRECISION-BUILT, LABORATORY-TESTED



Vaughn de Leath
N. B. C.



Robert Simmons
N. B. C.



Gladys Swarthout
N. B. C.



Guy Lombardo
C. B. S.



Fred MacMurray
C. B. S.



Patti Chapin
C. B. S.



Rudy Vallee
N. B. C.



Jack Benny
N. B. C.

Call	Kc.	Location	Kw.	Call	Kc.	Location	Kw.
WMCA	570	New York, N. Y.	1.	WRGA	1500	Rome, Ga.	.1
WMEX	1500	Boston, Mass.	.1	WRJN	1370	Racine, Wis.	.1
WMFF	1370	Wilmington, N. C.	.1	WROL	1410	Rockford, Ill.	.5
WMFF	1310	Plattsburg, N. Y.	.25	WRUF	1310	Knoxville, Tenn.	.1
WMFF	1210	Hibbing, Minn.	.1	WRR	1280	Dallas, Texas	.5
WMFJ	1420	Daytona Beach, Fla.	.1	WRUF	830	Gainesville, Fla.	.5
WMFN	1210	Clarksdale, Miss.	.1	WRVA	1110	Richmond, Va.	.5
WMFO	1370	Decatur, Ala.	.1	WSAI	1330	Cincinnati, Ohio	1.
WMFR	1200	High Point, N. C.	.1	WSAJ	1310	Grove City, Pa.	.1
WMMN	890	Fairmont, W. Va.	.5	WSAN	1440	Allentown, Pa.	.5
WMPC	1200	Lapeer, Mich.	.1	WSAR	1450	Fall River, Mass.	.25
WMSD	1420	Sheffield, Ala.	.1	WSAZ	1190	Huntington, W. Va.	1.
WMT	600	Cedar Rapids, Iowa	1.	WSB	740	Atlanta, Ga.	50.
WNAC	1230	Boston, Mass.	1.	WSBC	1210	Chicago, Ill.	.1
WNAD	1010	Norman, Okla.	1.	WSBT	1360	South Bend, Ind.	.5
WNAX	570	Yankton, S. Dak.	1.	WSFA	1410	Montgomery, Ala.	.5
WNBC	1380	New Britain, Conn.	.25	WSGN	1310	Birmingham, Ala.	.1
WNBF	1500	Binghamton, N. Y.	.1	WSIX	1210	Nashville, Tenn.	.1
WNBB	1310	New Bedford, Mass.	.1	WSJS	1310	Winston-Salem, N. C.	.1
WNBR	1430	Memphis, Tenn.	.5	WSM	650	Nashville, Tenn.	50.
WNBX	1260	Springfield, Vt.	1.	WSMB	1320	New Orleans, La.	1.
WNBZ	1290	Saranac Lake, N. Y.	.1	WSMK	1380	Dayton, Ohio	.2
WNEL	1290	San Juan, Puerto Rico	.5	WSOC	1210	Charlotte, N. C.	.1
WNEN	1250	New York, N. Y.	1.	WSPA	920	Spartanburg, S. C.	1.
WNLC	1500	New London, Conn.	.1	WSPD	1340	Toledo, Ohio	1.
WNOX	1010	Knoxville, Tenn.	1.	WSPR	1140	Springfield, Mass.	.5
WNYC	810	New York, N. Y.	1.	WSUI	880	Iowa City, Iowa	.5
WOAI	1190	San Antonio, Tex.	50.	WSVA	550	Harrisonburg, Va.	.5
WOC	1370	Davenport, Iowa	.1	WSVS	1370	Buffalo, N. Y.	.05
WOCL	1210	Jamestown, N. Y.	.05	WSYB	1500	Rutland, Vt.	.1
WOI	640	Ames, Iowa	5.	WSYR	570	Syracuse, N. Y.	.25
WOKO	1430	Albany, N. Y.	.5	WSYU	900	Quincy, Ill.	.5
WOL	1310	Washington, D. C.	.1	WTAD	580	Worcester, Mass.	.5
WOMT	1210	Manitowoc, Wis.	.1	WTAG	1310	Tallahassee, Fla.	.1
WOOD	1270	Grand Rapids, Mich.	.5	WTAM	1070	Cleveland, Ohio	50.
WOPI	1500	Bristol, Tenn.	.1	WTAO	1330	Green Bay, Wis.	1.
WOR	710	Newark, N. J.	50.	WTAR	780	Norfolk, Va.	.5
WORC	1280	Worcester, Mass.	.5	WTAW	1120	College Station, Texas	.5
WORK	1320	York, Pa.	1.	WTAX	1210	Springfield, Ill.	.5
WORL	920	Boston, Mass.	.5	WTB	800	Cumberland, Md.	.25
WOSU	570	Columbus, Ohio	.75	WTBN	1250	Minneapolis, Minn.	1.
WOV	1130	New York, N. Y.	1.	WTEL	1310	Philadelphia, Pa.	.1
WOW	590	Omaha, Nebr.	1.	WTFI	1450	Athens, Ga.	.5
WOWO	1160	Ft. Wayne, Ind.	10.	WTHH	1200	Hartford, Conn.	.1
WPAD	1420	Paducah, Ky.	.1	WTIC	1060	Hartford, Conn.	50.
WPBR	1420	Parkersburg, W. Va.	1.	WTJS	1310	Jackson, Tenn.	.1
WPAX	1210	Thomasville, Ga.	.1	WTMJ	620	Milwaukee, Wis.	1.
WPAY	1370	Portsmouth, Ohio	.1	WTMV	1500	East St. Louis, Ill.	.1
WPEN	920	Philadelphia, Pa.	.25	WTNJ	1280	Trenton, N. J.	.5
WPG	1100	Atlantic City, N. J.	5.	WTOC	1260	Savannah, Ga.	1.
WPHR	880	Petersburg, Va.	.5	WTRC	1310	Elkhart, Ind.	.1
WPRO	630	Providence, R. I.	.25	WTFW	1400	Brooklyn, N. Y.	.5
WPRP	1420	Ponce, P. R.	.1	WWAE	1200	Hammond, Ind.	.1
WPTF	680	Raleigh, N. C.	5.	WWJ	920	Detroit, Mich.	1.
WQAM	560	Miami, Fla.	1.	WWL	850	New Orleans, La.	10.
WQAN	880	Scranton, Pa.	.25	WWNC	570	Asheville, N. C.	1.
WQBC	1360	Vicksburg, Miss.	1.	WWRL	1500	Woodside, N. Y.	.1
WQDM	1370	St. Albans, Vt.	.1	WWSW	1500	Pittsburgh, Pa.	.1
WRAM	1370	Williamsport, Pa.	.1	WWVA	1160	Wheeling, W. Va.	5.
WRAY	1310	Reading, Pa.	.1	WXYZ	1240	Detroit, Mich.	.1
WRAX	920	Philadelphia, Pa.	.25	WIXBS	1530	Waterbury, Conn.	1.
WRBL	1200	Columbus, Ga.	.1	W2XR	1550	Long Island City, N. Y.	1.
WRC	950	Washington, D. C.	.5	W6XAI	1550	Bakersfield, Calif.	1.
WRDO	1370	Augusta, Maine	.1	W9XB	1530	Kansas City, Mo.	1.
WRDW	1500	Augusta, Ga.	.1				
WREC	600	Memphis, Tenn.	1.				
WREN	1220	Lawrence, Kansas	1.				

RETUBE WITH TUNG-SOL

UNITED STATES BROADCASTING STATIONS

BY FREQUENCY, WAVELENGTH AND CALL LETTERS

550 kc., 545.1 m.	780 kc., 384.4 m.
KFUD, KFVR, KOAC, KSD, KTSA, WDEV, WGR, WKRC, WSWA.	KELW, KFDD, KFOD, KTM, WEAN, WMC, WTAR, KGHL.
560 kc., 535.4 m.	790 kc., 379.5 m.
KFDM, KLZ, KTAB, KWTO, WIND, WFIL, WIS, WQAM.	KGO, WGY.
570 kc., 526.0 m.	800 kc., 374.8 m.
KGKO, KMTR, KVI, WKBN, WMCA, WNAX, WOSU, WSYR, WSYU, WWNC.	WBAP, WFAA, WTBO.
580 kc., 516.9 m.	810 kc., 370.1 m.
KMJ, KSAC, WCHS, WDBO, WIBW, WILL, WTAG.	WCCO, WNYC.
590 kc., 508.2 m.	820 kc., 365.6 m.
KHQ, WEEL, WKZO, WOW.	WHAS.
600 kc., 499.7 m.	830 kc., 361.2 m.
KFSD, WCAO, WICC, WMT, WREC.	KOA, WEEU, WHDH, WRUF.
610 kc., 491.5 m.	840 kc., 356.9 m.
KFRC, WDAF, WIP, WIAY.	(Reserved for Canadian Stations)
620 kc., 483.6 m.	850 kc., 352.7 m.
KGW, KTAR, WFLA, WSUN, WHJB, WLBZ, WTMJ.	KIEV, KWKH, WWL, WKAR.
630 kc., 475.9 m.	860 kc., 348.6 m.
KFRU, KGF, WGBF, WMAL, WOS.	WABC, WBOQ, WHB.
640 kc., 468.5 m.	870 kc., 344.6 m.
KFI, WAIU, WOI.	WENR, WLS.
650 kc., 461.3 m.	880 kc., 340.7 m.
KIRO, WSM.	KFKA, KLX, KPof, WCOO, WGBI, WQAN, WSUI, WPHR.
660 kc., 454.3 m.	890 kc., 336.9 m.
WAAW, WEAJ.	KARK, KPNF, KPPY, KSEI, KUSD, WBAA, WGST, WIAR, WMMN, KFPY.
670 kc., 447.5 m.	900 kc., 333.1 m.
WMAQ.	KGBU, KHJ, KSFI, WBen, WIAX, WKY, WELI, WFMD, WLBL, WTAD.
680 kc., 440.9 m.	910 kc., 329.5 m.
KFEQ, KPO, WPTF.	(Reserved for Canadian Stations)
690 kc., 434.5 m.	920 kc., 325.9 m.
(Reserved for Canadian Stations)	KFEL, KOMO, KPRC, KVOD, WAAF, WBSO, WWJ, WORL, WPEN, WRAX, WSPA.
700 kc., 428.3 m.	930 kc., 322.4 m.
WLW.	KGBZ, KMA, KROW, WBRC, WDBJ.
710 kc., 422.3 m.	940 kc., 319.0 m.
KMPC, WOR, KIRO.	KOIN, WAAT, WAVE, WCSH, WDAY, WHA.
720 kc., 416.4 m.	950 kc., 315.6 m.
WGN.	KFWB, KHSL, KMBC, WRC.
730 kc., 410.7 m.	960 kc., 312.3 m.
(Reserved for Canadian Stations)	(Reserved for Canadian Stations)
740 kc., 405.2 m.	970 kc., 309.1 m.
KMMJ, KTRB, WHEB, WSB.	KIR, WCFL, WIBG.
750 kc., 399.8 m.	980 kc., 305.9 m.
KGU, WJR.	KDKA.
760 kc., 394.5 m.	990 kc., 302.8 m.
KXA, WEW, WJZ.	WBZ, WBZA.
770 kc., 389.4 m.	1000 kc., 299.8 m.
KFAB, WBBM.	KFVD, WHO.



Phil Harris
N. B. C.



Lou Holtz
N. B. C.



Arturo Toscanini
N. B. C.



Edgar Bergen
N. B. C.



Lanny Ross
N. B. C.



Benay Venuta
C. B. S.



Jane Froman
N. B. C.



Andre Kostelanetz
C. B. S.

- 1010 kc., 296.9 m.
KGGF, KOW, WHN, WNOX, WNAD
- 1020 kc., 293.9 m.
KYW, WDZ.
- 1030 kc., 291.1 m.
(Reserved for Canadian Stations)
- 1040 kc., 288.3 m.
KRLD, KTHS, WESG.
- 1050 kc., 285.5 m.
KFBI, KNX.
- 1060 kc., 282.8 m.
KWJJ, WBAL, WIAG, WTIC.
- 1070 kc., 280.2 m.
KJBS, WCAZ, WTAM.
- 1080 kc., 277.6 m.
WBT, WCBD, WMBI.
- 1090 kc., 275.1 m.
KMOX.
- 1100 kc., 272.6 m.
KGDM, WLWL, WPG.
- 1110 kc., 270.1 m.
KSOO, WRVA.
- 1120 kc., 267.7 m.
KFIO, KFSG, KRKD, KRSC, WCOB,
WDEL, WISN, WTAW.
- 1130 kc., 265.3 m.
KSL, WIJD, WOV.
- 1140 kc., 263.0 m.
KVOO, WAPI, WSPR.
- 1150 kc., 260.7 m.
WHAM.
- 1160 kc., 258.5 m.
WOWO, WWVA.
- 1170 kc., 256.3 m.
WCAU.
- 1180 kc., 254.1 m.
KEX, KOB, WDG, WINS, WMAZ.
- 1190 kc., 252.0 m.
WATR, WOAI, WSAZ.
- 1200 kc., 250.0 m.
KADA, KBTM, KFJB, KFXD, KFXI, KGDE,
KGEK, KGFJ, KGHI, KGVO, KMLB,
KSUN, KVOS, KVSC, KWG, WABI,
WAIM, WBBZ, WBNO, WCAT, WCAZ,
WCLO, WCPD, WEST, WFAM, WHBC,
WHBY, WIBX, WIL, WIBC, WJBL,
WIBW, WJNO, WKBO, WLV, WMPD,
WRBL, WTHT, WVAE.
- 1210 kc., 247.9 m.
KASA, KDLR, KDON, KFJI, KFOR, KFPW,
KFVS, KFXM, KGY, KIUL, KPCC, KVSQ,
KWTN, WALR, WBAX, WBBL, WBRB,
WCOL, WCRW, WEBQ, WEDC, WFAS,
WGBB, WGCW, WGNV, WHBF, WHBU,
WIBU, WIBY, WJEL, WJIM, WJW, WKOK,
WMBG, WMFG, WMFN, WOCL, WOMT,
WPAX, WSAZ, WSBG, WSIX, WSOC,
WTAX.
- 1220 kc., 245.8 m.
KFKU, KTW, KWSC, WCAD, WCAE,
WDAE, WREN.
- 1230 kc., 243.8 m.
KGBX, KGGM, KYA, WFBM, WNAC.

- 1240 kc., 241.8 m.
KGCU, KLPM, KTAT, KTFI, WKAQ,
WXYZ.
- 1250 kc., 239.8 m.
KFOX, WCAZ, WDSU, WGCP, WHBI,
WNEW, WTCN, WLB.
- 1260 kc., 238.0 m.
KOIL, KPAC, KRGV, KUOA, KVOA,
WLBW, WTOG, WHIO, WNBX.
- 1270 kc., 236.1 m.
KGCA, KOL, KVOR, KWLC, WASH,
WFBR, WJDX, WOOD.
- 1280 kc., 234.2 m.
KFBB, WCAM, WCAP, WDOD,
WIBA, WORC, WRR, WTNJ.
- 1290 kc., 232.4 m.
KDYL, KLCN, K TSA, WEBC, WJAS,
WNBZ, WNEL, KTRN.
- 1300 kc., 230.6 m.
KALE, KFAC, KFH, KFJR, WBBR, WEVD,
WFAB, WFBC, WHAZ, WHBL, WIOD,
WMBF.
- 1310 kc., 228.9 m.
KCRJ, KFBK, KPFL, KPFP, KFJR, KFYO,
KINY, KGDX, KGEZ, KGFV, KIT,
KRMD, KROA, KTSB, KXRO, WAML,
WBEO, WBOW, WBRB, WCLS, WDAH,
WEBR, WEXL, WFBG, WFDG, WGH,
WJAC, WLBC, WLBF, WLNH, WOL,
WRAW, WROL, WSAJ, WSGN, WSIS,
WTEL, WJTS, WTRC.
- 1320 kc., 227.1 m.
KGHF, KGMB, KID, KRNT, WADC,
WORK, WSMB.
- 1330 kc., 225.4 m.
KGB, KMO, KSCJ, WDRC, WSAI,
WTAQ.
- 1340 kc., 233.7 m.
KFPY, KGDY, KGNO, KGNR, WCOA,
WFEA, WSPD.
- 1350 kc., 222.1 m.
KIDO, KWK, WAWZ, WBNX, WEHC.
- 1360 kc., 220.4 m.
KCRC, KGER, KGIR, WCSC, WFBL,
WGES, WOBC, WSBT.
- 1370 kc., 219.0 m.
KAST, KELD, KERN, KFGQ, KFJM,
KFIZ, KFRO, KGAR, KGFG, KGFL,
KGKL, KICA, KLUF, KMAC, KONO,
KRE, KRKO, KSLM, KUI, KVL, KWKC,
KWYO, WABY, WAGF, WATL, WBNY,
WBTM, WCBM, WDAS, WGL, WHBQ,
WHDF, WHLB, WIBM, WLLH, WMBR,
WMPD, WMFO, WOC, WPAZ, WQDM,
WRAC, WRDO, WRIN, WSVS.
- 1380 kc., 217.3 m.
KOH, KQV, WALA, WKBH, WNBC,
WSMK.
- 1390 kc., 215.7 m.
KLRA, KOOS, KOY, WHK.
- 1400 kc., 214.2 m.
KHBC, KLO, KTUL, WARD, WBBC,
WIRE, WLTH, WVFV.
- 1410 kc., 212.6 m.
KGNC, KMED, WAAB, WBCM, WHIS,
WROK, WSFA.

- 1420 kc., 211.3 m.
KABC, KABR, KALB, KBPS, KCMC,
KFIZ, KGFF, KGGC, KGIW, KIDW,
KIUN, KORE, KRBC, KRLC, KUMA,
KWBG, KXL, WACO, WAGM, WAPO,
WAZL, WCBS, WCHV, WEED, WEHS,
WELL, WGPC, WHDL, WHFC, WILM,
WJBO, WJMS, WKBI, WLP, WLEU,
WMAS, WMBG, WMBH, WMFI, WMSD,
WPAZ, WPAR, WPRP.
- 1430 kc., 209.7 m.
KECA, KGNF, WBNS, WHEC, WHP,
WNBW, WOKO, KSO.
- 1440 kc., 208.2 m.
KDFN, KLS, KXYZ, WBIG, WCBA,
WMBD, WSN, WTAD.
- 1450 kc., 206.9 m.
KIEM, KTBS, WGAR, WHOM, WSAR,
WTFI.
- 1460 kc., 205.4 m.
KSTP, WJSV.
- 1470 kc., 204.0 m.
KGA, WLAC.
- 1480 kc., 202.6 m.
KOMA, WKWB.
- 1490 kc., 201.2 m.
WCKY.
- 1500 kc., 200.0 m.
KBIX, KDB, KGFI, KGFK, KGKB, KGKY,
KNEL, KNOW, KOTN, KPLC, KPQ,
KUTA, KVOE, KXO, WCNW, WDNC,
WGal, WHEF, WIBK, WKBB, WKBV,
WKBB, WKEU, WMBQ, WMEX, WNBZ,
WOP, WRDW, WRGA, WSYB, WTMV,
WWRL, WWSW.
- 1530 kc., 196.1 m.
WIXBS, W9XBY.
- 1550 kc., 193.6 m.
W2XR, W6XAI.



Harriet Hilliard
N. B. C.



Lowell Thomas
N. B. C.



Jack Oakie
C. B. S.



George Burns and
Gracie Allen
N. B. C.

TELEVISION STATIONS IN THE UNITED STATES

Television sets are not available for the general public, but the television broadcasting stations listed below send out experimental programs.

Call Letters	Power Watts	Company	Location
		2000-2100 Kc.	
W2XDR	1000	Radio Pictures, Inc.	Long Island City, N. Y.
W8XAN	100	Sparks-Withington Co.	Jackson, Mich.
W9XK	50	University of Iowa	Iowa City, Iowa
W9XAK	125	Kansas St. Col. Agr. & Apl. Sc.	Manhattan, Kansas
W9XAO	500	Western Television Research Co.	Chicago, Ill.
W6XAH	1000	Pioneer Mercantile Co.	Bakersfield, Calif.
		2750-2850 Kc.	
W3XAK	5000	National Broadcasting Co.	Portable Chicago, Ill.
W9XAP	2500	National Broadcasting Co.	Bellmore, N. Y.
W2XBS	5000	National Broadcasting Co.	Kansas City, Mo.
W9XAL	500	First National Television Corp.	W. Lafayette, Ind.
W9XG	1500	Purdue University	New York, N. Y.
W2XAB	500	Atlantic Broadcasting Corp.	
		42,000-56,000, 60,000-86,000 Kc.	
W2XAX	50	Atlantic Broadcasting Corp.	New York, N. Y.
W6XAO	150	Don Lee Broadcasting System	Los Angeles, Calif.
W9XD	500	The Journal Company	Milwaukee, Wis.
W2XBT	750	National Broadcasting Co.	Portable
W2XF	5000	National Broadcasting Co.	New York, N. Y.
W3XE	1500	Philadelphia Storage Battery Co.	Philadelphia, Pa.
W3XAD	2000	RCA-Victor Co., Inc.	Camden, N. J.
W10XX	50	RCA-Victor Co., Inc. (Vic. of Camden)	Portable & Mobile
W2XDR	1000	Radio Pictures	Long Island City, N. Y.
W8XAN	100	Sparks-Withington Co.	Jackson, Mich.
W9XAT	500	Dr. Geo. W. Young	Portable
W1XG	500	General Television Corp.	Boston, Mass.
W9XAL	150	First National Television Corp.	Kansas City, Mo. (CP)
W3XER		RCA Mfg. Co.	Camden, N. J.
WNXX		University of Iowa	Iowa City, Ia.

BROADCASTING STATIONS IN THE UNITED STATES

ALPHABETICALLY BY CITIES

Aberdeen, S. Dak.	KABR	Brookings, S. Dak.	KFDY
Aberdeen, Wash.	KXRO	Brooklyn, N. Y.	WCNW, WLTH,
Abilene, Kans.	KFBI	WMBQ, WBBC, WBRR, WARD,	
Abilene, Texas	KRBC	WVFW, WEGL,	
Ada, Okla.	KADA	Buffalo, N. Y.	WEBR, WGR, WKBW,
Akron, Ohio	WJW	WBNY, WBEW, WSVS.	
Alamosa, Colo.	KGIW	Burbank, Calif.	KELW
Albany, Ga.	WATL, WGPC	Burlington, Vt.	WCAX
Albany, N. Y.	WABY, WOKO	Butte, Mont.	KGIR
Albuquerque, N. Mex.	KOB, KGGM	Calumet, Mich.	WHDF
Alexandria, La.	KALB	Camden, N. J.	WCAM
Alexandria, Va.	WJSV	Canton, N. Y.	WCAD
Allentown, Pa.	WCBA, WSN	Canton, Ohio	WHBC
Altoona, Pa.	WFBC	Cape Girardeau, Mo.	KFVS
Amarillo, Texas	KGNC	Carlsbad, N. Mex.	KLAH
Ames, Iowa	WOI	Carthage, Ill.	WCZA
Anderson, Ind.	WHBU	Casper, Wyo.	KDFN
Anderson, S. C.	WAIM	Cedar Rapids, Iowa	WMT
Ardmore, Okla.	KVSO	Champaign, Ill.	WDWS
Arlington, Va.	NAA	Charleston, S. C.	WCSC
Asbury Park, N. J.	WCAP	Charleston, W. Va.	WCHS
Asheville, N. C.	WWNC	Charlotte, N. C.	WBT, WSOC
Ashland, Ky.	WCML	Charlottesville, Va.	KHV
Astoria, Ore.	KAST	Chattanooga, Tenn.	WDOD
Athens, Ga.	WTFI	Chester Twp., N. Y.	WGNV
Atlanta, Ga.	WGST, WSB, WJTL	Chicago, Ill.	WAAF, WBBM, WCFI,
Atlantic City, N. J.	WPG	WCRW, WEDC, WENR, WGES,	
Auburn, N. Y.	WMBO	WGN, WJJD, WLS, WMAO, WMBI,	
Augusta, Ga.	WRDW	WSBC.	
Augusta, Me.	WRDO	Chico, Calif.	KHSL
Austin, Texas	KNOW	Cicero, Ill.	WHFC, WEHS, WKBI
Bakersfield, Calif.	KERN	Cincinnati, Ohio	WCPO, WSAI,
Baltimore, Md.	WBAL, WCAO,	WKRC, WLW.	
WFBZ, WCBM.		Clarksdale, Miss.	WMFN
Bangor, Me.	WABI, WLBZ	Clay Center, Nebr.	KMMJ
Baton Rouge, La.	WJBO	Clayton, Mo.	KFUO
Battle Creek, Mich.	WELL	Clearwater, Fla.	WFLA, WSUN
Bay City, Mich.	WBCM	Cleveland, Ohio	WHK, WJAY,
Beaumont, Texas	KFDM	WTAM, WGAR.	
Bellingham, Wash.	KVOS	Clovis, N. Mex.	KICA
Berkeley, Calif.	KRE	Coffeeville, Kans.	KGGF
Big Spring, Texas	KBST	College Station, Texas	WTAW
Beverly Hills, Calif.	KMPC	Colorado Springs, Colo.	KVOR
Billings, Mont.	KGHL	Columbia, Mo.	KFRU
Binghamton, N. Y.	WNEF	Columbia, S. C.	WIS
Birmingham, Ala.	WAPI, WBRC,	Columbus, Ga.	WRBL
WGN.		Columbus, Ohio	WHKC, WBNS,
Bismarck, N. Dak.	KFYR	WCOL, WOSU.	
Bloomington, Ill.	WJBC	Corpus Christi, Texas	KGFI
Bluefield, W. Va.	WHIS	Corvallis, Ore.	KOAC
Blytheville, Ark.	KLCN	Covington, Ky.	WCKY
Boise, Idaho	KIDO	Cumberland, Md.	WTBO
Boone, Iowa	KFGO	Dallas, Texas	KRDL, WFAA, WRR
Boston, Mass.	WEZA, WEEL, WHDH,	Danville, Va.	WBTM
WCOF, WMEX, WNAC, WAAB,		Davenport, Iowa	WOC
WEZ, WORL.		Dayton, Ohio	WSMK, WHIO
Brady, Tex.	KNEL	Daytona Beach, Fla.	WMFJ
Bristol, Tenn.	WOPI	Decatur, Ala.	WMFO
Bridgeport, Conn.	WICC	Decatur, Ill.	WJBL



Ben Bernie
N. B. C.



Boake Carter
C. B. S.



David Ross
C. B. S.



Maj. Edward Bowes
C. B. S.

Decorah, Iowa	KGCA, KWLC
Del Monte, Calif.	KDON
Denver, Colo.	KFEL, KOA, KPOF,
KVOD, KLZ.	
Des Moines, Iowa	KSO, WHO, KRNT
Detroit, Mich.	WJBK, WWJ, WMBC,
WJR, WXYZ.	
Devils Lake, N. Dak.	KDLR
Dodge City, Kans.	KGNO
Dothan, Ala.	WAGF
Dublin, Texas	KFPL
Durango, Colo.	KIUP
Durham, N. C.	WDNC
East Dubuque, Ill.	WKBB
East St. Louis, Ill.	WTMV
Easton, Pa.	WEST
Eau Claire, Wis.	WEAU
El Centro, Calif.	KXO
El Dorado, Ark.	KELD
Elk City, Okla.	KASA
Elkhart, Ind.	WTRC
Elmira, N. Y.	WESG
El Paso, Texas	WDAH, KTSM
Enid, Okla.	KCRC
Eric, Pa.	WLEU
Eugene, Ore.	KORE
Eureka, Calif.	KIEM
Evansville, Ind.	WEOA, WGBF
Everett, Wash.	KRKO
Fairmont, W. Va.	WMMN
Fall River, Mass.	WSAR
Fargo, N. Dak.	WDAY
Fergus Falls, Minn.	KGDE
Flint, Mich.	WFDF
Fond du Lac, Wis.	KFIZ
Fort Smith, Ark.	KFPW
Fort Wayne, Ind.	WOWO, WGL
Fort Worth, Texas	KTAT, KFJZ, WBAP
Frederick, Md.	WFMD
Freeport, N. Y.	WCEB
Fresno, Calif.	KMJ
Gadsden, Ala.	WBY
Galveston, Fla.	WRUF
Galveston, Texas	KLUF
Garden City, Kans.	KIUL
Gary, Ind.	WIND
Glendale, Calif.	KIEV
Glenside, Pa.	WIBG
Grand Forks, N. Dak.	KFJM
Grand Junction, Colo.	KFXJ
Grand Rapids, Mich.	WASH, WOOD
Great Falls, Mont.	KFBB
Greeley, Colo.	KFKA
Green Bay, Wis.	WTAQ, WHBY
Greensboro, N. C.	WBIG
Greensboro, Pa.	WHJB
Greenville, S. C.	WFBC
Griffin, Ga.	WKBU
Grove City, Pa.	WSAJ
Hagerstown, Md.	WJEJ
Hammond, Ind.	WWAE
Harrisburg, Ill.	WBOE
Harrisburg, Pa.	WKBO, WHP

Harrisonburg, Va.	WSVA
Hartford, Conn.	WTHT, WDRG, WTRC
Hattiesburg, Miss.	WFOR
Hazleton, Pa.	WAZL
Hibbing, Minn.	WMFG
High Point, N. C.	WMFR
Hilo, Hawaii	KHBC
Hollywood, Calif.	KFWB
Honolulu, Hawaii	KGU, KGMB
Hot Springs National Park, Ark.	KTHS
Houston, Texas	KPRC, KTRH, KXYZ
Huntington, W. Va.	WSAZ
Huron, S. D.	KG DY
Hutchinson, Kans.	KWBG
Idaho Falls, Idaho	KID
Indianapolis, Ind.	WFBI, WIRE
Iowa City, Iowa	WSUI
Ironwood, Mich.	WJMS
Jackson, Mich.	WIBM
Jackson, Miss.	WJDX
Jackson, Tenn.	WTJS
Jacksonville, Fla.	WMBR, WJAX
Jamestown, N. Y.	WOCL
Jamestown, Wis.	WOLO
Jerome, Ariz.	KCRJ
Jersey City, N. J.	WHOM, WAAT
Johnstown, Pa.	WJAC
Joliet, Ill.	WCLS
Jonesboro, Ark.	KBTM
Joplin, Mo.	WMBH
Juneau, Alaska	KINY
Kalamazoo, Mich.	WKZO
Kalamazoo, Mich.	KGEZ
Kansas City, Kans.	WLBK
Kansas City, Mo.	KCMO, KWKC,
WDAF, WHB, KMBC.	
Kearney, Nebr.	KGFW
Ketchikan, Alaska	KGBU
Klamath Falls, Ore.	KFJI
Knoxville, Tenn.	WNOX, WROL
Kosciusko, Miss.	WHFE
Laconia, N. H.	WLNH
La Crosse, Wis.	WKBB
West Lafayette, Ind.	WBAA
Lafayette, La.	KVOL
Lake Charles, La.	KPLC
Lakeland, Fla.	WLAK
Lamar, Colo.	KIDW
Lancaster, Pa.	WGAL
East Lansing, Mich.	WJIM, WKAR
Lapeer, Mich.	WMPC
Laurel, Miss.	WAML
Lawrence, Kans.	KFKU, WREN
Lewiston, Idaho	KRLC
Lexington, Ky.	WLAP
Lincoln, Nebr.	KFAB, KFOR
Little Rock, Ark.	KLRA, KGHI, KARK
Long Beach, Calif.	KFOX, KGER
Longview, Texas	KFRD
Los Angeles, Calif.	KFI, KFSG, KEHE,
KGJF, KECA, KHJ, KFAC, KFVD,	
KRDK, KMTR, KNX.	
Louisville, Ky.	WHAS, WAVE



Joe Penner
C. B. S.



Conrad Thibault
N. B. C.



Ted Husing
C. B. S.



Freddie Rich
C. B. S.

A RADIO IS NO BETTER THAN
ITS TUBES. RETUBE WITH **TUNG-SOL**

A Sunday's Jaunt Around the World

By Laurence M. Cockaday
Editor of Radio News

The lure of distance and travel has caused many a short-wave listener to arise early on Sunday to literally tour the world via short waves. Putting on a bath robe and pulling up a chair to our short-wave receiver at 6 a. m., E.S.T., we can usually pull in JVM, Nazaki, Japan, on 10740 kc., or JVN, Nazaki, on 10660 kc., and hold them for hours. We may skip to the Australian station, VK2ME, and enjoy their musical reproductions on 9590 kc. as late as 8-9 a. m. Again, we may twist dials to 17790 kc. and pull in GSG, Daventry, England, to listen to their program in English. The English stations are now so powerful and numerous that it is easy to hear at least two of them going at the same time, all day long. PCJ, Huizen, Holland, 15220 kc., continues with a strong signal at 7 a. m. broadcasting peppy music. At 10 a. m., we can switch to Moscow, RV59, on 12000 kc., with their varied programs. But do not forget to try for ZBW4, Hong Kong, China, on 15190 kc., from 6-10 a. m. This is considered an excellent catch.

At noon, we may try our luck with I2RO, Rome, Italy, on 11810 kc., and hold them till late afternoon. France may be picked up from 6 a. m. to 11 a. m. on 15245 kc., continuing on 11885 from 11 a. m. to 6 p. m. Germany is heard well on at least two frequencies at any time during the day and they can be found easily by skimming across the dial. The German call letters start with the letter "D." In the early Sunday evening we may begin with EAQ, Madrid, Spain, on 9860 kc., as well as many other Spanish stations now found all over the short-wave dial. At about 6 p. m. the South Americans begin coming on the air in droves, including among the better



Florence Austral
Australia



Percy Grainger
Australia



Nina Alexandrysaya
Russia

ones: YV1RH on 6360 kc., YV4RA on 6520 kc., YV4RD on 6300 kc., HJ3ABX on 6122 kc., HJ1ABB on 6120 kc., HJ3ABD on 6050 kc., HJU on 9510 kc. and LRU on 15290 kc. Central Americans to look for are as follows: COCH on 9428 kc., HI4D on 6550 kc., OAX4G on 6230 kc., HP5F on 6080 kc., HP5B on 6030 kc. and COCO on 6010 kc. And sprinkled in between these are 50 or more other short-wave South American and Central American stations.

If one is interested in fishing for "ultra" DX, he may listen for SPW, Warsaw, Poland, 13653 kc.; TFJ, Reykjavik, Iceland, 12235 kc.; HS8PJ, Bangkok, Siam, 10955 kc.; CQN, Macao, Asia, 9677 kc.; EA8AB, Tenerife, Canary Islands, 7010 kc.; CR7AA, Lourenzo Marques, Africa, 6137 kc., and VQ7LO, Nairobi, Kenya, Africa, 6083 kc. This rather sketchy outline will afford the short-wave fan or novice a main line program for DX'ing around the world and along routes from which many interesting by-paths may be explored.



Olga Velecka
Augustova
Holland



John Amadio
Australia



Nettie Blase
Holland

TIME TABLE

For several centuries, time all over the world has been reckoned in terms of Greenwich Standard Time. The table which follows shows the time at all points, in the United States, when it is noon at Greenwich. (London.)

GMT.	EST.	CST.	MST.	PST.
Noon—Hr.	7 A.M.	6 A.M.	5 A.M.	4 A.M.
01 "	8 "	7 "	6 "	5 "
02 "	9 "	8 "	7 "	6 "
03 "	10 "	9 "	8 "	7 "
04 "	11 "	10 "	9 "	8 "
05 "	Noon	11 "	10 "	9 "
06 "	1 P.M.	Noon	11 "	10 "
07 "	2 "	1 P.M.	Noon	11 "
08 "	3 "	2 "	1 P.M.	Noon
09 "	4 "	3 "	2 "	1 P.M.
10 "	5 "	4 "	3 "	2 "
11 "	6 "	5 "	4 "	3 "
12 "	7 "	6 "	5 "	4 "
13 "	8 "	7 "	6 "	5 "
14 "	9 "	8 "	7 "	6 "
15 "	10 "	9 "	8 "	7 "
16 "	11 "	10 "	9 "	8 "
17 "	M.N.	11 "	10 "	9 "
18 "	1 A.M.	M.N.	11 "	10 "
19 "	2 "	1 A.M.	M.N.	11 "
20 "	3 "	2 "	1 A.M.	M.N.
21 "	4 "	3 "	2 "	1 A.M.
22 "	5 "	4 "	3 "	2 "
23 "	6 "	5 "	4 "	3 "
24 "	7 "	6 "	5 "	4 "

GMT. Means Greenwich Mean Time. EST. Means Eastern Standard Time.
CST. Means Central Standard Time. MST. Means Mountain Standard Time.
PST. Means Pacific Standard Time.

WORLD SHORT-WAVE STATION LIST—ARRANGED BY COUNTRIES AND CITIES

Some Less-Frequently-Heard Stations Omitted

ABBREVIATIONS FOR CLASS COLUMN

A—Amateur B—Broadcast E—Experimental F—Frequency P—Phone T—Time Signals

NORTH AMERICA

Call	Location	Kc.	Meters	Class	Call	Location	Kc.	Meters	Class
CANADA									
VE9CA	Calgary, Alberta	6,030	49.75	B	WOO	Ocean Gate, N. J.	4,753	63.11	P
CFU	Rossland, B. C.	5,705	52.59	P, B	W2XE	Wayne, N. J.	21,520	13.94	B
VE9BK	Vancouver, B. C.	4,795	62.56	B	W2XE	Wayne, N. J.	17,760	16.89	B
VE9CS	Vancouver, B. C.	6,070	49.43	B	W2XE	Wayne, N. J.	15,270	19.65	B
CJRO	Winnipeg, Man.	6,150	48.70	B	W2XE	Wayne, N. J.	11,830	25.36	B
CJRX	Winnipeg, Man.	11,730	25.57	B	W2XE	Wayne, N. J.	6,120	49.02	B
VE9LX	Winnipeg, Man.	6,150	48.78	B	WEA	Rocky Point, N. Y.	10,610	28.28	E
VE9HX	Halifax, N. S.	6,110	49.10	B	WEF	Rocky Point, N. Y.	9,490	31.61	P
CGA3	Drummondville, Q.	13,285	22.58	P	WEG	Rocky Point, N. Y.	7,415	40.45	P
CFA2	Drummondville, Q.	4,465	67.19	P	W2XAD	Schenectady, N. Y.	15,330	19.57	B
CFCK	Montreal, Que.	6,005	49.96	B	W2XAF	Schenectady, N. Y.	9,530	31.48	B
VE9DN	Montreal, Que.	6,005	49.96	B	W8XAL	Cincinnati, Ohio	6,060	49.50	B
CFRX	Toronto, Ont.	6,070	49.42	B	W3XAU	Philadelphia, Pa.	9,590	31.28	B
CRCK	Toronto, Ont.	11,810	25.40	B	W3XAU	Philadelphia, Pa.	6,060	49.50	B
CRCK	Toronto, Ont.	6,090	49.26	B	W8XK	Pittsburgh, Pa.	21,540	13.93	B
					W8XK	Pittsburgh, Pa.	15,210	19.72	B
					W8XK	Pittsburgh, Pa.	11,870	25.27	B
					W8XK	Pittsburgh, Pa.	6,140	48.86	B
					NAA	Arlington, Va.	12,630	23.75	T
					NAA	Arlington, Va.	4,390	68.34	T

MEXICO

XECU	Guadalupe, Jalisco	6,115	49.06	B	CENTRAL AMERICA				
KEBO	Mazatlan, Sinaloa	6,030	49.75	B	COSTA RICA				
KEBT	Mexico, D. F.	6,003	49.97	B	T14NRH	Heredia	9,670	31.02	B
XECR	Mexico, D. F.	7,380	40.65	B	T18WS	Puntarenas	7,550	39.74	B
KEPW	Mexico, D. F.	6,120	49.02	B	TIEP	San Jose	6,687	44.86	B
XEUZ	Mexico, D. F.	6,117	49.04	B	TIFA	San Jose	6,360	47.17	B
KEWI	Mexico, D. F.	6,015	49.88	B	TIGPH	San Jose	5,830	51.46	B
XEXA	Mexico, D. F.	6,133	48.91	B	TIPG	San Jose	6,410	46.80	B
XEFT	Veracruz, Ver.	9,493	31.60	B	TIRCC	San Jose	6,550	45.80	B
XEUW	Veracruz, Ver.	6,020	49.83	B	TIX2	San Jose	5,830	51.46	B
					T15HH	San Ramon	5,500	54.55	B

UNITED STATES

KEF	Bolinas, Calif.	6,710	44.71	P	GUATEMALA				
KEI	Bolinas, Calif.	9,490	31.61	P	TGS	Guatemala City	5,713	52.51	B
KET	Bolinas, Calif.	9,480	31.65	P	TGWA	Guatemala City	9,450	31.75	E
KOR	Bolinas, Calif.	18,040	16.63	P	TGWA	Guatemala City	6,000	50.00	B
KEZ	Dixon, Calif.	10,400	28.85	P	TG2X	Guatemala City	5,940	50.50	B
NPG	San Francisco, Cal.	12,885	23.28	T	HONDURAS				
WND	Hialeah, Fla.	4,097	73.23	P	HRD	La Ceiba	6,235	48.11	B
W4XB	Miami Beach, Fla.	6,040	49.67	B	HRW-				
W9XAA	Chicago, Ill.	11,830	25.36	B	HRW-	La Ceiba	11,040	27.17	P
W9XAA	Chicago, Ill.	6,080	49.34	B	HRW-				
WVV	Beltsville, Md.	15,000	20.00	F	HRW-	La Ceiba	8,290	36.19	P
W1XAL	Boston, Mass.	21,460	13.98	B	HRW-				
W1XAL	Boston, Mass.	15,250	19.67	B	HRW-	La Ceiba	6,520	46.01	P
W1XAL	Boston, Mass.	11,790	25.45	B	HRW-				
W1XAL	Boston, Mass.	6,040	49.67	B	HRW-	La Ceiba	6,375	47.10	P
W1XK	Millis, Mass.	9,570	31.35	B	HRW-				
W8XWJ	Detroit, Mich.	31,600	9.49	E	HRW-	La Ceiba	5,170	58.03	P
W9XPD	St. Louis, Mo.	31,600	9.49	E	HRW-				
W3XAL	Bound Brook, N. J.	17,780	16.87	B	HRW-	La Ceiba	4,605	65.16	P
W3XAL	Bound Brook, N. J.	6,100	49.18	B	HRP1	San Pedro Sula	6,357	47.20	B
WKA	Lawrenceville, N. J.	21,060	14.25	P	HRN	Tegucigalpa	5,875	51.06	B
WKF	Lawrenceville, N. J.	19,220	15.61	P					
WOY	Lawrenceville, N. J.	4,753	63.11	P					

NICARAGUA

Call	Location	Kc.	Meters	Class	Call	Location	Kc.	Meters	Class
YNH6	Boom	6,350	47.24	P	CP5	La Paz	6,080	49.34	B
YNH6	Boom	4,610	65.08	P	CP7	La Paz	15,300	19.60	P
YNLAT	Granada	3,175	94.48	B	BRAZIL				
YNA	Managua	7,315	41.01	B	PSA	Marapicu	21,080	14.23	P, B
YNAM	Managua	14,480	20.72	B	PSE	Marapicu	14,935	20.09	P, B
YNGU	Managua	7,200	41.67	A, B	PSF	Marapicu	14,690	20.42	P, B
YNLF	Managua	9,300	32.26	B	PSH	Marapicu	10,220	29.35	P, B
YNLG	Managua	7,560	39.68	B	PSK	Marapicu	8,185	36.65	P, B
YNOP	Managua	8,505	35.27	B	PRF5	Rio de Janeiro	9,500	31.58	B
YNIGG	Managua	5,758	52.10	B	PFM	Sepetiba	10,310	29.10	P
YNE	Puerto Cabezas	6,540	45.87	B	PP0	Sepetiba	11,670	25.71	P
YNE	Puerto Cabezas	12,430	26.25	P	PPU	Sepetiba	19,260	15.58	P
YNE	Puerto Cabezas	9,220	32.54	P	PPZ	Sepetiba	18,165	16.51	P
YNE	Puerto Cabezas	7,810	38.41	P	CHILE				
YNE	Puerto Cabezas	6,340	47.32	P	CED	Antofagasta	10,230	29.33	P, B
YNE	Puerto Cabezas	5,555	54.00	P	CED	Antofagasta	8,035	37.34	P
YNE	Puerto Cabezas	4,610	65.08	P	CEC	La Granja	15,865	18.91	P
YNE	Puerto Cabezas	3,170	94.48	P	CEC	La Granja	10,670	28.12	P
YNJ7	Wapam	6,350	47.24	P	CEC	La Granja	7,740	38.76	P
YNJ7	Wapam	4,610	65.08	P	CB615	Santiago	6,150	48.78	B
YNJ7	Wapam	3,175	94.48	P	CB960	Santiago	9,600	31.25	B
YNJ5	Waspook	6,350	47.24	P	COLOMBIA				
YNJ5	Waspook	4,610	65.08	P	HJ4ABH	Armenia	9,520	31.51	B
YNJ5	Waspook	3,175	94.48	P	HJ3A	Barranquilla	3,376	88.83	P
					HJ1ABB	Barranquilla	9,559	31.38	B
					HJ1ABB	Barranquilla	6,115	49.06	B
					HJ1ABG	Barranquilla	6,042	49.65	B
					HKV	Bogota	8,795	34.11	B
					HJN	Bogota	5,955	50.38	B
					HJ3ABD	Bogota	6,050	49.39	B
					HJ3ABH	Bogota	6,012	49.90	B
					HJ3ABX	Bogota	6,122	49.01	B
					HJ5ABD	Bogota	6,085	49.30	B
					HJ5ABD	Cali	9,500	31.58	B
					HJ1ABE	Cartagena	9,575	31.34	B
					HJ2ABC	Cucuta	6,451	49.26	B
					HJ4ABC	Ibague	6,108	49.11	B
					HJ4ABB	Manizales	6,097	49.20	B
					HJ4ABE	Medellin	6,150	48.78	B
					HJ4ABU	Peraira	6,000	50.00	B
					HJ1ABC	Quibdo	6,025	49.79	B
					HJ1ABJ	Santa Marta	6,025	49.79	B

PANAMA

HPSI	Aquadulce	11,895	25.22	B	EL SALVADOR				
HPSF	Colon	6,075	49.38	B	YSL	San Salvador	14,985	20.02	P
HPSK	Colon	5,990	50.08	B	YSL	San Salvador	14,960	20.05	P
HPSL	David	11,740	25.55	B					
HPSE	Panama	6,030	49.75	B					
HP5Z	Panama	9,605	31.23	B					
HP5Z	Panama	6,120	49.02	B					
HP5S	Panama	9,565	31.36	B					

SOUTH AMERICA

ARGENTINA									
LRU	Buenos Aires	15,280	19.63	B	BRITISH GUIANA				
LRX	Buenos Aires	9,660	31.06	B	VP3BG	Georgetown	6,130	48.94	B
LSK3	Hurlingham	10,250	29.27	P	VP3MR	Georgetown	6,010	49.92	A, B
LSL1	Hurlingham	7,901	37.98	P	DUTCH GUIANA				
LSL2	Hurlingham	10,300	29.13	P	PZH	Paramaribo	7,000	42.86	B
LSL3	Hurlingham	15,810	18.97	P	ECUADOR				
LSL4	Hurlingham	21,160	14.19	P	HCVT	Ambato	6,578	45.60	B
LSM2	Hurlingham	14,500	20.69	P	HC2CW	Guayaquil	8,400	35.71	B
LSM3	Hurlingham	19,140	15.68	P	HC2EBA	Guayaquil	9,441	31.78	B
LSN1	Hurlingham	14,530	20.65	P	HC2ET	Guayaquil	4,600	65.22	B
LSN2	Hurlingham	9,890	30.32	P	HC2JSB	Guayaquil	7,854	38.20	B
LSN6	Hurlingham	21,020	14.27	P	HC2RL	Guayaquil	6,635	45.22	B
LSNF	Monte Grande	19,600	15.31	P	HC2TC	Quito	6,970	43.04	B
LSH	Monte Grande	5,435	55.19	P	HC2J	Quito	8,948	33.53	B
LSX	Monte Grande	10,350	28.98	P, B	HC2B	Quito	4,107	73.05	B
LSY	Monte Grande	10,410	28.82	P	HC1PM	Quito	5,735	52.31	B
					PRADO	Riobamba	6,620	45.32	B

TUNG-SOL AUTO RADIO TUBES VIBRATION-TESTED
RESIST SHOCK

PARAGUAY			
Call	Location	Kc.	Meters Class
ZP10	Asuncion	8,300	36.14 B
ZP11	Asuncion	3,800	78.95 B
PERU			
OAX6A	Arequipa	6,122	49.01 B
OAX1B	Chiclayo	6,164	48.67 B
OAX7A	Cuzco	6,128	48.96 B
OAX4P	Huancayo	6,122	49.01 B
OAX5A	Ica	1,804	25.42 B
OAX4D	Lima	5,780	51.90 B
OAX4G	Lima	6,260	47.92 B
OAX4I	Lima	9,330	32.15 B
OAX4K	Lima	6,425	46.67 B
OCI	Lima	18,670	16.08 P

URUGUAY			
Call	Location	Kc.	Meters Class
CWH	Cerrito	13,140	22.83 P
CWD	Montevideo	5,830	51.46 P
CXA4	Montevideo	6,125	48.98 B

VENEZUELA			
Call	Location	Kc.	Meters Class
YV3RA	Barquisimeto	5,899	50.84 B
YV5RC	Caracas	5,800	51.72 B
YV5RD	Caracas	6,156	48.73 B
YV5RF	Caracas	6,380	47.02 B
YV5RH	Caracas	6,400	46.88 B
YV5RJ	Caracas	6,250	48.00 B
YV5RP	Caracas	6,270	47.84 B
YV6R	Ciudad Bolivar	6,545	48.84 B
YV1RB	Coro	6,205	48.35 B
YV1RM	Maracaibo	6,500	46.15 B
YV1R	Maracaibo	5,850	51.28 B
YV1RD	Maracaibo	6,075	49.38 B
YV1RH	Maracaibo	6,365	47.14 B
YVO	Maracay	13,337	22.47 P
YVO	Maracay	6,672	44.96 P
YV4RD	Maracay	6,300	47.62 B
YV15RV	Maracay	5,917	50.71 B
YV2RA	San Cristobal	5,710	52.54 B
YV4RE	Valencia	6,520	46.01 B
YV4RH	Valencia	5,917	50.71 B
YV1RG	Valera	6,230	48.15 B

WEST INDIES			
BERMUDA			
Call	Location	Kc.	Meters Class
ZFA	Hamilton	5,025	59.70 P
ZFB	St. George	10,055	29.84 P
ZFD	St. George	10,335	29.03 P

CUBA			
Call	Location	Kc.	Meters Class
CO9JO	Camaguey	8,665	34.62 B
CMA3	Havana	15,505	19.35 E
COCD	Havana	6,130	48.94 B
COCH	Havana	9,428	31.82 B
COCO	Havana	6,010	49.92 B
COCO	Havana	9,740	30.80 B
COCX	Havana	11,435	26.24 B
COHE	Havana	6,280	47.77 B
COBK	Sancti Spiritus	6,200	48.39 B
COKG	Santiago	6,200	48.39 B

DOMINICAN REPUBLIC			
Call	Location	Kc.	Meters Class
H13C	La Romana	6,730	43.48 B
HIH	San Pedro de Macoris	6,775	44.38 B
H1IJ	San Pedro de Macoris	5,865	51.15 B

Call	Location	Kc.	Meters Class
H1IA	Santiago de los Caballeros	6,190	48.47 B
H1IS	Santiago de los Caballeros	6,420	46.73 B
H15N	Santiago de los Caballeros	6,150	48.78 B
H19B	Santiago de los Caballeros	6,040	49.57 B
HIG	Ciudad Trujillo	6,280	47.77 B
HIN	Ciudad Trujillo	11,280	26.50 B
HIN	Ciudad Trujillo	6,243	48.05 B
HIT	Ciudad Trujillo	6,630	45.25 B
HIX	Ciudad Trujillo	6,340	47.32 B
HIZ	Ciudad Trujillo	6,310	47.54 B
H12D	Ciudad Trujillo	6,900	43.48 B
H14D	Ciudad Trujillo	6,555	45.76 B
H18A	Ciudad Trujillo	6,479	46.31 B
H18Q	Ciudad Trujillo	6,198	48.08 B

FRENCH WEST INDIES			
Call	Location	Kc.	Meters Class
—	Fort de France, Martinique	9,360	32.05 B

HAITI			
Call	Location	Kc.	Meters Class
HH2S	Port-au-Prince	5,925	50.64 B
HH2Y	Port-au-Prince	9,551	31.41 B
HH3W	Port-au-Prince	9,645	31.10 B

JAMAICA			
Call	Location	Kc.	Meters Class
VRR4	Stony Hill	11,595	25.88 P

EUROPE

AUSTRIA			
Call	Location	Kc.	Meters Class
OER2	Vienna	11,801	25.42 B

AZORES			
Call	Location	Kc.	Meters Class
CT2AJ	San Miguel	4,002	74.77 A,B

BELGIUM			
Call	Location	Kc.	Meters Class
ORG	Ruyselede	19,200	15.62 P
ORK	Ruyselede	10,330	29.03 B

BULGARIA			
Call	Location	Kc.	Meters Class
LZA	Sofia	14,970	20.04 B

CZECHOSLOVAKIA			
Call	Location	Kc.	Meters Class
OLR2B	Podebrady	6,030	49.75 B
OLR3A	Podebrady	9,550	31.41 B
OLR4A	Podebrady	11,840	25.34 B
OLR5A	Podebrady	15,230	19.70 B
OLR5C	Podebrady	15,160	19.79 B
OLR6A	Podebrady	21,450	13.99 B

DENMARK			
Call	Location	Kc.	Meters Class
OXY	Skamlebaek	6,060	49.50 B

FRANCE			
Call	Location	Kc.	Meters Class
FYB	Paris	10,578	28.36 T
TPA2	Pontoise	15,243	19.68 B
TPA3	Pontoise	11,880	25.25 B
TPA4	Pontoise	11,720	25.60 B
TYA	Pontoise	12,215	24.56 P
TYA2	Pontoise	9,040	33.19 P
TYB	Pontoise	12,250	24.49 P
TYE	Pontoise	18,090	16.58 P
TYE2	Pontoise	13,760	21.80 P

GERMANY			
Call	Location	Kc.	Meters Class
DFT	Nauen	7,812	38.40 P
DGU	Nauen	9,650	31.09 P
DGM	Nauen	9,920	30.24 P
DGD	Nauen	10,210	29.38 P
DGH	Nauen	10,440	28.74 P
DAF	Norddeich	11,340	26.46 P
DAF	Norddeich	13,275	22.60 P
DAF	Norddeich	17,265	17.30 P
DLO	Rehmate	19,947	15.04 P
DAS	Ruegen	8,330	36.01 P
DJA	Zeeseen	9,560	31.38 B
DJB	Zeeseen	15,200	19.74 B
DJC	Zeeseen	6,020	49.83 B
DJD	Zeeseen	11,770	25.49 B
DJE	Zeeseen	17,760	16.89 B
DJL	Zeeseen	15,110	19.85 B
DJM	Zeeseen	6,079	49.35 B
DJN	Zeeseen	9,540	31.45 B
DJO	Zeeseen	11,795	25.43 B
DJP	Zeeseen	11,855	25.31 B
DJQ	Zeeseen	15,280	19.63 B

HUNGARY			
Call	Location	Kc.	Meters Class
HAS3	Szekesfehervar	15,370	19.52 B
HAS5	Szekesfehervar	17,130	17.51 B
HAT4	Szekesfehervar	9,125	32.87 B

ICELAND			
Call	Location	Kc.	Meters Class
TFJ	Reykjavik	12,235	24.52 B

ITALY			
Call	Location	Kc.	Meters Class
IAC	Coltano	12,795	23.44 P
IAC	Coltano	4,355	68.89 P
IRW	Rome	19,520	15.37 P
IRY	Rome	16,120	18.61 P
I2RO3	Rome	9,635	31.14 B
I2RO4	Rome	11,810	25.40 B

MADEIRA			
Call	Location	Kc.	Meters Class
CT3AQ	Funchal	4,000	75.00 B,E

NETHERLANDS			
Call	Location	Kc.	Meters Class
P1IJ	Dordrecht	7,082	42.36 A,B
PCJ	Huizen	9,590	31.28 E,B
PHI	Huizen	17,770	16.88 B
PHI	Huizen	11,730	25.57 B
PCK	Kootwijk	18,405	16.30 P

NORWAY			
Call	Location	Kc.	Meters Class
LKJ1	Jeloy	9,530	31.48 B
LKJ1	Jeloy	6,130	48.94 B
LKJ1	Jeloy	4,100	73.17 E

POLAND			
Call	Location	Kc.	Meters Class
SPW	Warsaw	13,635	22.00 B

PORTUGAL			
Call	Location	Kc.	Meters Class
CSW	Lisbon	11,040	27.17 B
CSW	Lisbon	9,940	30.18 B
CT1AA	Lisbon	9,665	31.04 B
CT1GO	Paredes	11,900	25.21 B
CT1GO	Paredes	6,132	48.92 B

RUMANIA			
Call	Location	Kc.	Meters Class
YOI	Bucharest	6,000	50.00 B

SPAIN			
Call	Location	Kc.	Meters Class
ECN1	Barcelona	7,220	41.55 B
ECF1	Barcelona	7,020	42.73 B
EAJ33	Caramaca	10,350	28.98 B
EAO	Madrid	19,720	15.21 P
EAO	Madrid	9,860	30.43 B
EAR	Madrid	9,480	31.65 B
EDN	Madrid	10,070	29.79 E

SWEDEN			
Call	Location	Kc.	Meters Class
SBG	Motala	11,705	25.63 E
SBG	Motala	6,060	49.50 E
SM5SD	Stockholm	7,281	41.20 B
SM5SX	Stockholm	11,705	25.63 B

SWITZERLAND			
Call	Location	Kc.	Meters Class
HB9B	Basle	3,770	79.56 B
HB9AQ	Lausanne	3,525	85.11 B
HBJ	Prangins	14,535	20.64 P
HBO	Prangins	11,385	26.35 B
HBL	Prangins	9,595	31.27 B
HBP	Prangins	7,797	38.47 B

UNITED KINGDOM			
Call	Location	Kc.	Meters Class
GSA	Davenport	6,050	49.59 B
GSB	Davenport	9,510	31.55 B
GSC	Davenport	9,580	31.32 B
GSD	Davenport	11,750	25.53 B
GSE	Davenport	11,860	25.30 B
GSF	Davenport	15,140	19.81 B
GSG	Davenport	17,790	16.86 B
GSH	Davenport	21,470	13.97 B
GSI	Davenport	15,260	19.66 B
GSI	Davenport	21,530	13.93 B
GSO	Davenport	15,180	19.76 B
GSP	Davenport	15,310	19.60 B
GSS	Rugby	12,150	24.69 P
GBU	Rugby	12,290	24.41 P
GBW	Rugby	14,440	20.78 P
GCP	Rugby	10,770	27.86 P

U. S. S. R.			
Call	Location	Kc.	Meters Class
RIO	Baku	10,170	29.48 P
RAN	Moscow	9,600	31.25 B
RKI	Moscow	15,040	19.95 P
RV59	Moscow	12,000	25.00 B,P
RV59	Moscow	6,000	50.00 B

VATICAN CITY			
Call	Location	Kc.	Meters Class
HVJ	Vatican City	15,123	19.84 B
HVJ	Vatican City	5,969	50.26 B

YUGOSLAVIA			
Call	Location	Kc.	Meters Class
YTC	Belgrade	6,100	49.20 B

OCEANIA			
AUSTRALIA			
Call			

SHORT-WAVE BROADCASTING STATION ADDRESSES

EUROPE

DAVENTRY—Broadcasting House, London W C 1, England.
GERMANY—German Short-Wave Stations, Haus des Rundfunks, Berlin-Charlottenburg 9, Germany.
FRANCE—Radio-Coloniale, Boulevard Haussmann 98bis, Paris, France.
EAQ—P. O. Box 951, Madrid, Spain.
HBL, HBP—G. Gallarati, Information Section, League of Nations, Geneva, Switzerland.
HVJ—Castine Pio IV, Vatican City, Italy.
I2RO (2RO)—E. I. A. R., 5 Via Montello, Rome, Italy.
CT1AA—Av. Duque de Avila, 86 r/o, Lisbon, Portugal.
OXY—Statsradionien, Heibergsgade 7, Copenhagen, Denmark.
PHI—PHOHI Studios, Hilversum, Holland.
RV59—Miss Inna Marr, Radio Centre, Solianka 12, Moscow, U. S. S. R.
IAC—Mr. A. Nicastro, Coltano, Piza, Italy.
ENGLISH COMMERCIAL PHONES—G. P. O. (Radio Section) 86 Wood Street, London EC 2, England.
FRENCH COMMERCIAL PHONES—Rue de Montmartre 166, Paris, France.
CRG, ORP—Radio Communication, Brussels, Belg.

SOUTH AMERICAN, CUBAN, DOMINICAN REPUBLICS

YV3RC—Radiofusora Venezuela, Bajos Paseje Ramella, Caracas, Venezuela, S. A.
YV2RC—Apartado 290, Caracas, Venezuela, S. A.
XAM—Poder Ejecutivo Federal, Merida, Yucatan, Mexico.
PRADO—Apartado 98, Riobamba, Ecuador, S. A.
HC2RL—P. O. Box 759, Guayaquil, Ecuador, S. A.
HJ3ABD—Calle 16, No. 5-40, Bogota, Colombia, S. A.
HCJB—Casilla 691, Quito, Ecuador, S. A.
YV5RMO—S. M. Vegas, Apartado 214, Maracaibo, Venezuela, S. A.
HJ2ABA—"La Voz de Pais en Tunja," Boyaca, Colombia, S. A.
HJ4ABE—Radiodifusora de Medellin, Medellin, Colombia, S. A.
HJ1ABB—Mr. E. J. Pellet, Director, P. O. Box 715, Barranquilla, Colombia, S. A.
LSX—Transradio International, San Martin 329, Buenos Aires, Argentina, S. A.
PR3 or PSK—Radio Club do Brasil, Rio de Janeiro, Brazil, S. A.
HIX—Estacion Radiodifusora HIX, Santo Domingo, R. D.
KEBT—Apartado 79-44, Mexico, D. F.
COCO—Apartado 98, Havana, Cuba.
CMB2 and CMA—Cuban Transatlantic Radio Corporation, Havana, Cuba.

NORTH AMERICA

W2XAF, W2XAD—General Electric Co., 1 River Road, Schenectady, New York.
W9XF—Merchandise Mart, Chicago, Ill.
W8XAL—Crosley Radio Corp., Cincinnati, Ohio.
W4XB—WIOD News Tower, Miami Beach, Florida.
W8XK—William Penn Hotel, Pittsburgh, Pa.
W3XAL—30 Rocketteller Plaza, New York City, N. Y.
W2XE—485 Madison Avenue, New York City, N. Y.
CJRO }
CJRX }—Royal Alexandra Hotel, Winnipeg, Manitoba, Canada.
CRCX—Toronto, Ontario, Canada.
CSA, CGA, VE9DR—Canadian Marconi Co., Box 1690, Montreal.
VE9CS—734 Davie Street, Vancouver, Canada.
VE9BJ—St. Johns, New Brunswick, Canada.
VE9HX—P. O. Box 998, Halifax, N. S., Canada.

ASIA

SIAM—Post and Telegraph Department, Radio Section, Bangkok, Siam.
INDO CHINA—Commercial Phones: Centre Radioelectrique de Saigon, Indo-China.
JIAA—Kemikawa-Cho, Chiba-Ken, Japan.
CON—Post Office, Macao, China.
PLE—Post, Telegraaf and Telefoondienst, Bandoeng, Java.
VUC—Indian State Broadcasting Service, Irwin House, Ballard Estate, Bombay, India.

AFRICA

RABAT or CNR—Director de l'office des Postes, Rabat, Morocco.
VO7LO—P. O. Box 777, Nairobi, Kenya Colony, Africa.
OPM—Radio Leopoldville, Congo Belge, Africa.

OCEANIC

VK2ME—47 York Street, Sydney, Australia.
VK3ME—Wireless House, 167-169 Queen Street, Box 1272L, Melbourne C 1, Australia.

SHIPS

FRENCH SHIPS—French Line, 610 Fifth Ave., New York City.
GERMAN SHIPS—Hamburg-American Line, 39 Broadway, New York City.
GERMAN SHIPS—North German Lloyd, 57 Broadway, New York City.
ITALIAN SHIPS—"S.S. Rex" and "Conte de Savoia," Pier 86 N. River, New York City
ENGLISH SHIPS—International Mercantile Marine, 1 Broadway, New York City.
UNITED STATES SHIPS—Radiomarine Co., 75 Varick St., New York City.

INTERNATIONAL CALL LETTERS

Call Signal	Country	Call Signal	Country
CAA-CEZ	Chile	OJA-OZZ	Denmark
CFA-CKZ	Canada	PAA-PJZ	Netherlands
CLA-CMZ	Cuba	PJA-PJZ	Curacao
CNA-CNZ	Morocco	PKA-POZ	Dutch East Indies
COA-COZ	Cuba	PPA-PYZ	Brazil
CPA-CPZ	Ecolivia	PZA-PZZ	Surinam
CQA-CRZ	Portuguese Colonies	Q	(Abbreviations)
CSA-CUZ	Portugal	R	U. S. S. R.
CVA-CXZ	Uruguay	SA-SMZ	Sweden
CYA-CZZ	Canada	SOA-SRZ	Poland
D	Germany	SSA-SSZ	Poland
EAA-EHZ	Spain	STA-SUZ	Egypt
EIA-EIZ	Irish Free State	SVA-SVZ	Greece
ELA-ELZ	Liberia	TAA-TCZ	Turkey
EPA-EQZ	Persia	TFE-TFZ	Iceland
ESA-ESZ	Estonia	TGA-TGZ	Guatemala
ETA-ETZ	Ethiopia	TIA-TIZ	Costa Rica
EZA-EZZ	Territory of the Saar	TKA-TZZ	France and Colonies and Protec- torates
F	France and Colonies and Protectorates	U	U. S. S. R.
G	Great Britain	VAA-VGZ	Canada
HAA-HAZ	Hungary	VHA-VMZ	Australia
HBA-HBZ	Switzerland	VOA-VOZ	Newfoundland
HCA-HCZ	Ecuador	VPA-VSZ	British Colonies and Protectorates
HHA-HHZ	Haiti	VTA-VWZ	British India
HIA-HIZ	Dominican Republic	VXA-VYZ	Canada
HJA-HKZ	Colombia	W	United States of America
HPA-HPZ	Republic of Panama	XAA-XFZ	Mexico
HRA-HRZ	Honduras	XGA-XUZ	China
HSA-HSZ	Siam	XYA-XZZ	British India
HVA-HVZ	Vatican City	YAA-YAZ	Afghanistan
HZA-HZZ	Saudi Arabia	YBA-YHZ	Dutch East Indies
I	Italy and Colonies	YIA-YIZ	Iraq
J	Japan	YJA-YJZ	New Hebrides
K	United States of America	YLA-YLZ	Latvia
LAA-LNZ	Norway	YMA-YMZ	Free City of Danzig
LOA-LWZ	Argentina	YNA-YNZ	Nicaragua
LXA-LXZ	Luxemburg	YOA-YRZ	Roumania
LYA-LYZ	Lithuania	YSA-YSZ	Republic of El Salvador
LZA-LZZ	Bulgaria	YTA-YUZ	Yugoslavia
M	Great Britain	YVA-YWZ	Venezuela
N	United States of America	ZAA-ZAZ	Albania
OAA-OCZ	Peru	ZBA-ZJZ	British Colonies and Protectorates
OGA-OEZ	Austria	ZKA-ZMZ	New Zealand
OFA-OHZ	Finland	ZPA-ZPZ	Paraguay
OIA-OJZ	Czechoslovakia	ZSA-ZUZ	Union of South Africa
OKA-OKZ	Belgium and Colonies	ZVA-ZZZ	Brazil
ONA-OTZ			

Important Facts for Owners of Radio Sets . . .

The franchised Tung-Sol dealer who gives you this radio log was chosen for reliability and ability to serve you and your community.

He chose Tung-Sol because TUNG-SOL RADIO TUBES are manufactured to high precision standard with the finest of modern equipment.

Every tube is tested many times during the process of manufacture to insure mechanical perfection and, finally, for actual performance. They are built to surpass standard engineering requirements and to maintain a long-standing reputation for a product of high quality.

Radio tubes weaken with use—but so gradually that you may not realize the loss of original brilliance and fidelity of tone . . . or, one weak tube can reduce the rest to the level of its own low efficiency.

With TUNG-SOL RADIO TUBES you will get greater sensitivity, clarity and brilliance, more uniformly sustained volume and many extra hours of useful life.

The Tung-Sol franchised dealer is **more** than just a merchant. He is the local authority on radio whose advice and service will assure you uniformly good reception.

TUNG-SOL LAMP WORKS, Inc.
RADIO TUBE DIVISION
NEWARK, NEW JERSEY