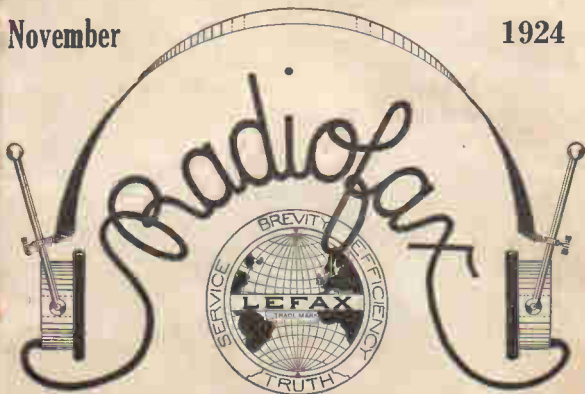


LEFAX—RADIO SECTION

November

1924



THE SUPPLEMENT
THAT KEEPS THE
LEFAX
RADIO HANDBOOK
PERPETUALLY UP-TO-DATE

**NEW COMPLETE LIST
OF BROADCASTING STATIONS
IN THIS ISSUE**

A completely revised list of radio phone broadcasting stations is included in this issue. In order to make it suitable for users of the present highly efficient receivers it has not been limited to stations in this country.

England	United States	Australia
Cuba	Canada	Argentina
	Mexico	

The data given for each station cover wave length, frequency, call letters, owner, location and power.

The list is arranged in three ways.—

Alphabetically—by call letters

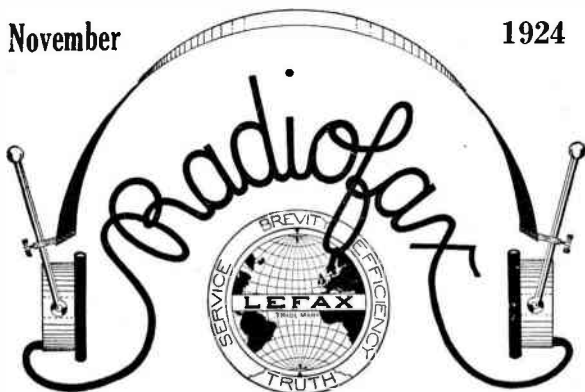
Geographically—by location

Numerically—by frequency and wave length

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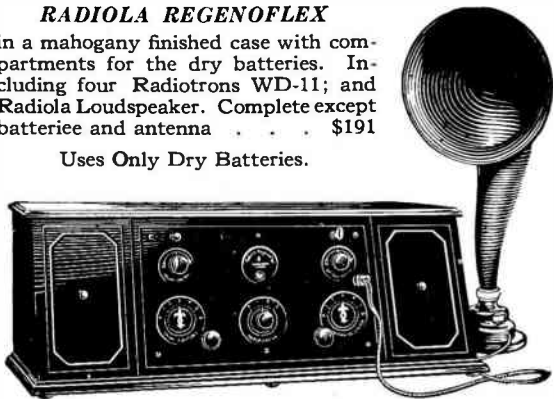
Numerically—by frequency and wave length

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RADIOLA REGENOFLEX

in a mahogany finished case with compartments for the dry batteries. Including four Radiotrons WD-11; and Radiola Loudspeaker. Complete except batteries and antenna . . . \$191

Uses Only Dry Batteries.



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Tone quality is its greatest achievement! It gets big distances. It is very selective. It is supremely easy to operate. But its outstanding achievement is the improvement in reception of voice and music—an improvement based on new internal discoveries—and resulting in new joys of listening in.



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is your
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A New Cabinet Model

The horn of violin wood is "full floating"—suspended in perfect balance, wholly free from direct contact with the cabinet.

And what a difference that makes! Every modulation or inflection of voice or instrument is re-created with a purity and faithfulness truly astounding.

Super-sensitive unit; cast aluminum tone chamber; handsome mahogany cabinet.

Cabinet Model VIII - \$35

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**MUSIC MASTER
CORPORATION**

*Makers and Distributors of High-
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**10th and Cherry Streets
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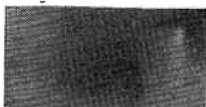
Pittsburgh



BAKELITE

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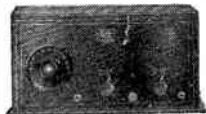
Radio's Premier Insulation



Plain Bakelite Radio Panel



Bakelite Radio Panel, drilled and etched



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Bakelite has all the properties essential to good insulation and—what is more—it is permanent. Heat, cold and moisture do not affect this material and it does not deteriorate with age.

Bakelite has the endorsement of a vast number of radio set builders and is used as standard insulation by all the leading radio manufacturers.

Send for our Booklet V.

BAKELITE CORPORATION

247 Park Avenue, New York, N. Y.
Chicago Office: 636 West 22d Street.

Send for Our Radio Map

The Bakelite Radio Map lists the call letters, wave length and location of every broadcasting station in the world. Enclose 10 cents to cover the cost and we will send you this map. Address Map Department.

BAKELITE Condensite REDMANOL

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THE MATERIAL OF A THOUSAND USES



Increased Signals

Gentlemen: Ur MICADENSERS r fb. Om! I have had excellent results since I have been using your condensers. *I find your capacities run very accurate.*

Your all metal mica construction puts it in a class by itself. The mica you use is of very high grade which would lead me to believe that the power factor of the condenser would be very low.

I have taken other condensers out of receiving sets and put yours in and have in every case *increased the signals.* SALLY (Signed) H. H. Hurd

Made in all standard capacities. Most popular capacities priced as follows:

.0001.....35c	.0005.....35c	.002.....40c	.006.....75c
.00025.....35c	.001.....40c	.005.....60c	.015.....\$1.75

.00025 with Brackets for Grid Leaks.....45c

.00025 with Self-contained Grid Leak.....50c

.00025 in Matched pairs, (warranted exactly same capacity) per pair95c

We will furnish any *exact capacity value* in Micadensers, or *duplicate the capacity value of any condenser* you send us, at 10c above regular price.

At all good Jobbers and Dealers. If your dealer can't supply, Ben Franklin Micadensers will be sent prepaid, on receipt of remittance with order.

The Ben Franklin Radio Manufacturing Co.

2654 Superior Avenue

Cleveland, Ohio

John L. Reinartz,

writing on his new short-wave receiver.

H. J. Walls, of the Bureau of Standards,
telling broadcast listeners to tune in below 100 meters.

Milton B. Sleeper,

describing the latest "loss-less" receiver.

In the November Number of

AMATEUR RADIO

120 Liberty Street

New York, N. Y.

*Fifteen Cents on Newsstands: by Subscription
\$1.50 the year.*

In She Comes!

TIP your whisker to almost any point of an NAA meter-tested crystal and the full flow of the impulse instantly hits your phones, clean, clear, steady.

Reason — no guesswork in the test; — every, EVERY crystal meter-tested singly by specially made electrical instruments to a point away beyond normal sensitivity. In addition, the Newman-Stern mounting is new — patents pending — cold assembly, provides for refilling, and avoids damage to crystal by hot alloy; recessed for protection.

Perfect for Reflex

At all good jobbers and dealers, in neat turned wood box, 60c. If dealer can't supply, order direct and send dealer's name.

The Newman-Stern Co

1750 East 12th Street Cleveland, Ohio

Originators of tested crystals in 1914.
Oldest and Largest Producers.
Pioneers in Radio Equipment in Ohio.



New
NAA
Meter
Tested
Crystals



Nuggets
of
Sensitive-
ness



**World Radio
Batteries**
**SAVE YOU
50%**



WRITTEN 2YR. GUAR.

A 24-Volt "B" Storage Battery positively given FREE with each purchase of a WORLD "A" Storage Battery.

Prices That Satisfy—Radio Batteries
6-Volt, 100 Amps..... \$12.50
6-Volt, 120 Amps..... 14.50
6-Volt, 140 Amps..... 16.00

Shipment Express C. O. D. subject to examination.

5 per cent discount for cash in full with order.

2-Yr. Guarantee Bond in Writing
With Each World Storage Battery
Mail this ad with your name and address —we will ship battery day order is received; and give you a "B" Storage Battery, FREE. Write TODAY.

This FREE "B" Storage Battery takes the place of dry cell "B" Batteries. Can be recharged and will last indefinitely. It is the only battery of its kind equipped with solid rubber case —and insurance against acid and leakage.

FREE



WORLD BATTERY COMPANY

Dept. 28, 1219 So. Wabash Avenue, Chicago, Ill.

A True Musical Instrument

With its joyous, open-throated rubber horn and improved transformer unit, it is on a musical plane with the noblest instrument or voice at your favorite station.

Horn, 14½ inches across. Colors: black, bronze, and mottled bronze and gold. Finish: a handsome velvet mat surface, decidedly new. Price \$25.00. Others as low as \$12.50; and a new type Power Amplifier at \$25. Send for Bulletin No. 3011 and 3017 BV.



Model S Audiophone \$25

Rubber Horn 14½ inches diameter. Velvet mat finish of mottled bronze and gold classic base.

**THE BRISTOL
COMPANY**
Waterbury, Conn.

BRISTOL AUDIOPHONE

TRADE MARK REC. U.S. PAT. OFFICE

LOUD SPEAKER

IMPROVING THE AUDIO AMPLIFIER

Part 4

Efficiency pays. Behold! the low loss condenser, the low loss coil, the low loss socket. The old saying "A chain is no stronger than its weakest link" applies equally to a radio receiver. Therefore, see to it that *all* parts of a receiver possess maximum efficiency. This implies that these parts must be located and wired properly. Maximum efficiency and low loss are synonymous and when applied to a radio receiver result in greater efficiency, distance, volume, clarity and all those qualities which tend toward perfect reception. We often wonder how many radio fans really know how good the orchestra sounds in the studio and how worth while it is to make the reception equal the transmission. It can be done, and the way to start is to replace inefficient parts with parts known to be efficient. Then carefully study the location and wiring of these parts to prevent inductive and capacity coupling between the radio frequency and the audio frequency and battery wires. Make all radio frequency connections short and direct. Cable all battery wires. The symmetry of dials, etc., on the front of the panel should be a secondary consideration.

Maximum efficiency and low loss is just as desirable in the audio frequency amplifier as in any other part of the circuit, and an audio transformer may be the weak link in the chain. The designers of the AmerTran audio transformer, from the very first, realized that maximum efficiency was of prime importance and the precautions taken to eliminate small sources of loss in this transformer are responsible for its high rating. The core loss is so small that it is difficult to measure with the most delicate instruments. The core laminations are made of the highest grade silicon transformer steel. There are no bolts through the iron core to short circuit the flux. Distributed capacity in the secondary is kept at a minimum. It will be noted that the AmerTran is not enclosed in a metal case. Pains have been taken to provide an air clearance all around the secondary coil, excepting on the inside where the grid potential is at minimum value. Air has no dielectric loss.

In addition to Circular 1005-A the American Transformer Company, 182 Emmet St., Newark, N. J., will furnish, upon request, a separate diagram S-6210 showing what is undoubtedly the best arrangement of parts and wiring for a two-step audio frequency amplifier.—Adv.

LIST OF RADIO TELEPHONE BROADCASTING STATIONS IN THE UNITED STATES

Corrected to October 24, 1924

Call Signal	Owner of Station	Location of Station	Frequency Kilo-cycles	Wave Length Meters	Rating Oscill. Watts
KDKA	Westinghouse E. & M. Co.	East Pittsburgh, Pa.	920	326	1000
KDFM	Westinghouse E. & M. Co.	Cleveland, Ohio	1110	270	500
KDPT	Southern Electrical Co.	San Diego, Calif.	1230	244	100
KDYL	Newhouse Hotel	Salt Lake City, Utah	833	360	100
KDYM	Savoy Theatre	San Diego, Calif.	1070	280	50
KDYQ	Oregon Inst. of Technology	Portland, Ore.	833	360	50
KDZB	Frank E. Siefert	Bakersfield, Calif.	1250	240	100
KDZB*	The Rhodes Dept. Store	Seattle, Wash.	1110	270	100
KDZR	Bellingham Publishing Co.	Bellingham, Wash.	1150	261	50
KFAE	McArthur Bros. Co.	Phoenix, Ariz.	833	360	100
KFAE	State College of Wash.	Pullman, Wash.	910	330	500
KFAF	Western Radio Corp.	Denver, Colo.	833	360	500
KFAJ	University of Colorado	Boulder, Colo.	1080	278	500
KFAN	The Electric Shop	Moscow, Idaho	1150	261	100
KFAR	Studio Lighting Service Co.	Hollywood, Calif.	833	360	50
KFAW	The Radio Den.	Santa Ana, Calif.	1070	280	150
KFAY	W. J. Virgin	Medford, Ore.	1060	283	10
KFBB	F. A. Buttrey & Co.	Havre, Mont.	833	360	100
KFBC	W. K. Azbill	San Diego, Calif.	1080	278	5
KFBE	Reuben H. Horn	San Luis Obispo, Cal.	1240	242	50
KFBG	First Presbyterian Church	Tacoma, Wash.	833	360	50
KFBK	Kimball-Upson Co.	Sacramento, Calif.	1060	283	100
KFBL	Leese Bros.	Everett, Wash.	1340	224	10
KFBS	Trinidad Gas & Electric Supply Co. & Chronicle	Trinidad, Colo.	1070	280	10
KFBU	News Publishing Co.	Trinidad, Colo.	1060	283	50
KFCB	Bishop N. S. Thomas	Laramie, Wyo.	1260	238	10
KFCF	Nielson Radio Supply Co.	Phoenix, Ariz.	833	360	100
KFCF	Frank A. Moore	Walla Walla, Wash.	1270	236	500
KFCL	Leslie E. Rice	Los Angeles, Calif.	833	360	25
KFCP	Ralph W. Flygare	Ogden, Utah.	833	360	10
KFCV	Fred Mahaffey, Jr.	Houston, Tex.	1160	259	50
KFCZ	Omaha Central H. S.	Omaha, Neb.	1190	252	10
KFDD	St. Michael Cathedral	Boise, Idaho	1120	268	50
KFDH	University of Arizona	Tucson, Ariz.	833	360	50
KFDJ	Oregon Agri. College	Corvallis, Ore.	1330	225	5
KFDL	Knight Campbell Music Co.	Denver, Colo.	833	360	100
KFDX	First Baptist Church	Shreveport, La.	1100	273	100
KFDY	S. Dak. State College	Brookings, S. Dak.	1300	231	5
KFDZ	Harry O. Iverson	Minneapolis, Minn.	1210	248	50
KFEC	Meier & Frank Co.	Portland, Ore.	1180	254	150
KFEL	Winner Radio Corp.	Denver, Colo.	1120	268	100
KFEQ	J. L. Scroggin	Oak, Neb.	1300	231	10
KFER	Auto. Elec. Service Co.	Fort Dodge, Iowa	1150	261	100
KFEX	Augsburg Seminary	Minneapolis, Minn.	1250	240	10
KFFB	Jenkins Furniture Co.	Boise, Idaho	833	360	10
KFFE	Eastern Oregon Radio Co.	Pendleton, Ore.	1130	265	50
KFFF	First Baptist Church	Moberly, Mo.	1330	225	10
KFFR	Nevada State Journal	Sparks, Nev.	1070	280	100
KFFV	Graceland College	Lamoni, Iowa	1090	275	50
KFFY	Pineaus & Murphey	Alexandria, La.	1180	254	100
KFGC	Louisiana State Univ.	Baton Rouge, La.	1210	248	100
KFGD	Chickasha Rad. & Elec. Co.	Chickasha, Okla.	1100	273	500
KFGH	Leland Stanford University	Stanford Univ., Calif.	1280	234	5
KFGL	Arlington Garage	Arlington, Ore.	1330	225	10
KFGQ	Crary Hardware Co.	Boone, Iowa	1200	250	500
KFGX	First Presbyterian Church	Orange, Tex.	1050	286	500
KFGZ	Emmanuel Missionary Col.	Berrien Sprgs. Mich.	1190	262	50
KFHA	Western State Col. of Colo.	Gunnison, Colo.	1330	225	100
KFHD	Uts Electric Co.	St. Joseph, Mo.	1330	225	100

*This Company also operates station KFOA

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Active Broadcasting Stations, October 24, 1924

Call Signal	Owner of Station	Location of Station	Frequency Kilo-cycles	Wave Length Meters	Rating Watts
KFJH	Fallon & Company	Santa Barbara, Calif.	833	360	100
KFHR	Star Elec. & Radio Co.	Seattle, Wash.	1140	263	190
KFJ	Earle C. Anthony (Inc.)	Los Angeles, Calif.	640	469	500
KFIF	Benson Polytechnic School	Portland, Ore.	833	360	100
KFIO	North Central H. S.	Spokane, Wash.	1190	252	50
KFIQ	First Methodist Church	Yakima, Wash.	1240	242	50
KFIU	Alaska Elec. Light & Power Co.	Juneau, Alaska	1330	225	10
KFLX	Reorganized Church of Jesus Christ of Latter Day Saints	Independence, Mo.	1250	240	250
KFIZ	Daily Commonwealth and Siefert Radio Corp.	Fond du Lac, Wis.	1100	273	100
KFJB	Marshall Elec. Co.	Marshalltown, Iowa	1210	248	10
KFJC	Seattle Post-Intelligencer	Seattle, Wash.	1110	270	100
KFJF	Nation Radio Mfg. Co.	Oklahoma City, Okla.	1190	252	20
KFJI	Liberty Theatre—E. E. Marsh	Astoria, Ore.	1190	252	10
KFJK	Delano Radio & Elec. Co.	Bristow, Okla.	1280	234	100
KFJM	Univ. of North Dakota	Grand Forks, N. D.	1070	280	100
KFJQ	Valley Radio Div. of Elec. Constr. Co (Portable)	Grand Forks, N. D.	1070	280	5
KFJR	Ashley C. Dixon & Son	Stevensville, Mont.	1160	259	50
KFJX	Iowa State Teachers Col.	Cedar Falls, Iowa	1070	280	50
KFJY	Tunwall Radio Co.	Ft. Dodge, Iowa	1220	246	50
KFJZ	Texas National Guard 112th Cavalry	Ft. Worth, Tex.	1180	254	20
KFKA	Colo. State Teachers Col.	Greeley, Colo.	1100	273	50
KFKB	Brinkley-Jones Hospital Assn.	Milford, Kansas	1050	286	500
KFKQ	Conway Radio Labs.	Conway, Ark.	1200	250	100
KFKV	F. F. Gray	Butte, Mont.	1060	283	50
KFKX	Westinghouse E. & M. Co.	Hastings, Neb.	1030	291	1000
KFKZ	Nassour Bros. Radio Co.	Colorado Springs, Colo.	1280	234	10
KFLA	Abner R. Wilson	Butte, Mont.	1060	283	5
KFLB	Signal Electric Mfg. Co.	Menominee, Mich.	1210	248	50
KFLC	National Edu. Service	Denver, Colo.	1120	268	25
KFLD	Bizzell Radio Shop	Little Rock, Ark.	1150	261	20
KFLR	Univ. of New Mexico	Albuquerque, N. Mex.	1180	254	100
KFLU	Rio Grande Radio Supply House	San Benito, Tex.	1270	236	15
KFLV	Swedish Evangelical Mission Church	Rockford, Ill.	1310	229	100
KFLW	Missoula Elec. Supply Co.	Missoula, Mont.	1280	234	10
KFLX	George Roy Clough	Galveston, Texas	1250	240	10
KFLZ	Atlantic Automobile Co.	Atlantic, Iowa	1100	273	100
KFMB	Christian Churches of Little Rock	Little Rock, Ark.	1180	254	50
KFMQ	Univ. of Arkansas	Fayetteville, Ark.	1140	263	100
KFMR	Morningside College	Sioux City, Iowa	1150	261	10
KFMT	Dr. Geo. W. Young	Minneapolis, Minn.	1300	231	5
KFMW	M. G. Sateren	Houghton, Mich.	1120	265	50
KFMX	Carleton College	Northfield, Minn.	1060	283	500
KFNF	Henry Field Seed Co.	Shenandoah, Iowa	1130	265	500
KFNG	Wooten's Radio Shop	Coldwater, Miss.	1180	254	10
KFNL	Radio Broadcast Ass'n.	Paso Robles, Calif.	1250	240	10
KFNV	L. A. Drake Battery & Radio Supply Shop	Santa Rosa, Calif.	1280	234	5
KFNY	Montana Phonograph Co.	Helena, Mont.	1150	261	5
KFNZ	Royal Radio Company	Burlingame, Calif.	1300	231	10
KFOA*	The Rhodes Dept. Store	Seattle, Wash.	660	454	500
KFOC	First Christian Church	Whittier, Calif.	1270	236	100
KFOD	The Radio Shop	Wallace, Idaho	1340	224	10
KFOF	Rohrer Electric Co.	Marehfield, Ore.	1250	240	10

*This Company also operates station KDZE
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Active Broadcasting Stations, October 24, 1924

Call Signal	Owner of Station	Location of Station	Frequency Kilo-cycles	Wave Length Meters	Rating Watts
KFOJ	Moberly H. S. Radio Club	Moberly, Mo.	1220	246	5
KFOL	Lealie M. Schafbuch	Marengo, Iowa	1280	234	5
KFON	Echophone Radio Shop	Long Beach, Calif.	1280	234	100
KFOO	Latter Day Saints Univ.	Latter Lake City, Utah	1150	261	100
KFOQ	O. William Chancellor	Galveston, Tex.	1250	240	50
KFOR	David City Tire & Elec. Co.	David City, Nebr.	1330	225	20
KFOT	College Hill Radio Club	Wichita, Kans.	1300	231	50
KFOU	Hommel Mfg. Co.	Richmond, Calif.	1180	254	160
KFOX	Board of Ed. Tech. H. S.	Omaha, Nebr.	1210	248	100
KFOY	Beacon Radio Service	St. Paul, Minn.	1330	225	50
KFOZ	LeonHudsonRealEstateCo.	Ft. Smith, Ark.	1290	232	20
KFGG	Garretson & Dennis	Los Angeles, Calif.	1260	238	100
KFPH	H. C. Mailander	Salt Lake City, Utah	1240	242	50
KFPL	C. C. Baxter	Dubin, Texas	1190	252	15
KFPM	The New Furniture Co.	Greenville, Texas	1240	242	10
KFPN	Missouri National Guard	Jefferson City, Mo.	1240	242	10
KFPO	Colorado National Guard	Denver, Colo.	1300	231	500
KFPP	G. & G. Radio & Elec. Co.	Olympia, Wash.	1270	236	20
KFPR	Los Angeles Co. Forestry Dept.	Los Angeles, Calif.	1300	231	500
KFPT	Cope & Johnson Co.	Salt Lake City, Utah	1120	268	50
KFPV	Heintz & Kohlmoos, Inc.	San Francisco, Calif.	1270	236	500
KFPW	St. Johns M. E. Church	Carterville, Mo.	1120	268	10
KFPX	First Presbyterian Church	Pine Bluff, Ark.	1240	242	100
KFPY	Symons Investment Co.	Spokane, Wash.	1060	283	100
KFQA	The Principia	St. Louis, Mo.	1150	261	50
KFQB	The Searchlight Pub. Co.	Fort Worth, Tex.	1180	254	100
KFQC	Kidd Bros. Radio Shop	Taft, Calif.	1320	227	100
KFQD	Chovin Supply Co.	Anchorage, Alaska	1070	280	100
KFQE	Dickenson-Henry Radio Laboratories	Colorado Springs, Colo.	1340	224	5
KFQF	Donald A. Boulton	Minneapolis, Minn.	1340	224	10
KFQG	So. Calif. Radio Ass'n.	Los Angeles, Calif.	1330	225	100
KFQH	Radio Service Co.	Burlingame, Calif.	1300	231	50
KFQI	Thos. H. Ince Corp.	Culver City, Calif.	1280	234	100
KFQJ	Harbour-Longmire Co.	Oklahoma City, Okla.	1270	236	50
KFQK	Democrat Leader	Fayette, Mo.	1270	236	10
KFQL	Oklahoma Free State Fair Association	Mustokee, Okla.	1190	252	20
KFQM	Texas Highway Bulletin	Austin, Tex.	1120	268	100
KFQN	Third Baptist Church	Portland, Ore.	1060	283	5
KFQO	Meier Radio Shop	Russell, Kans.	1150	261	10
KFQP	Geo. S. Carson, Jr.	Iowa City, Iowa	1340	224	10
KFQR	Walter LaFayette Ellis	Oklahoma City, Okla.	1200	250	10
KFQS	Dickenson-Henry Radio L.	Manitou, Colo.	1220	246	10
KFQT	Texas National Guard	Denison, Tex.	1190	252	10
KFQU	W. Riker	Holy City, Calif.	1280	234	100
KFQV	Omaha Grain Exchange	(Portable) Omaha, Nebr.	1300	231	100
KFQW	C. F. Knieria	No. Bend, Wash.	1210	248	50
KFQX	Alfred M. Hubbard	Seattle, Wash.	1290	232	250
KFQY	Farmers State Bank	Belden, Nebr.	1100	273	10
KFQZ	Taft Radio Co.	Hollywood, Calif.	1250	240	250
KFRB	Hall Brothers	Beeville, Tex.	1210	248	250
KFRC	Radioart Studio	San Francisco, Calif.	1070	280	5
KFRF	W. R. Brown	Alexandria, La.	1240	242	10
KFRG	Cleveland High School	St. Louis, Mo.	1270	236	20
KFRH	The Radio Shop	Grafton, N.D.	1120	268	10
KFRI	The Reynolds Radio Co., Incorporated	Denver, Colo. (Portable)	1340	224	5
KFRJ	Guy Simmons, Jr.	Conway, Ark.	1200	250	10
KFSG	Echo Park Evangelistic Association	Los Angeles, Calif.	1280	234	500

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Active Broadcasting Stations, October 24, 1924

Call Signal	Owner of Station	Location of Station	Frequency Kilo-cycles	Wave Length Meters	Rating Oscill. Watts
KFSY	The Van Blaricom Co.	Helena, Mont.	1150	261	10
KGB	Tacoma Daily Ledger	Tacoma, Wash.	1190	252	50
KGG	Hallock & Watson Radio Service	Portland, Ore.	833	360	50
KGO	General Elec. Co.	Oakland, Calif.	960	312	1000
KGU	Marion A. Mulrony	Honolulu Hawaii	833	360	250
KGW	Oregonian Publishing Co.	Portland, Ore.	610	492	500
KGY	St. Martins College	Lacey, Wash.	1160	259	5
KHJ	Times-Mirror Co.	Los Angeles, Calif.	760	395	500
KHQ	Excelsior Motorcycles & Bicycle Company	Seattle, Wash.	833	360	100
KJQ	C. O. Gould	Stockton, Calif.	833	360	5
KJR	Northwest Radio Serv. Co.	Seattle, Wash.	1060	283	50
KJS	Bible Inst. of Los Angeles	Los Angeles, Calif.	833	360	750
KLS	Warner Bros.	Oakland, Calif.	833	360	250
KLX	Tribune Publishing Co.	Oakland, Calif.	590	508	500
KLZ	Reynolds Radio Co., Inc.	Denver, Colo.	1060	283	250
KMJ	San Joaquin Lt.&P Corp.	Fresno, Calif.	1210	248	50
KMO	Love Electric Co.	Tacoma, Wash.	833	360	10
KNT	Walter Hemrich	Kukak Bay, Alaska	1140	263	100
KNX	Los Angeles Eve. Express	Los Angeles, Calif.	890	337	500
KOB	N. Mex. College of Agriculture and Mechanic Arts	State College, N. Mex.	833	360	500
KOP	Detroit Police Dept.	Detroit, Mich.	1050	286	500
KPO	Hale Bros., Inc.	San Francisco, Calif.	710	422	500
KQP	Apple City Radio Club	Hood River, Ore.	833	360	10
KQV	Doubleday-Hill Electric Co.	Pittsburgh, Pa.	1110	270	500
KQW	Charles D. Herrold	San Jose, Calif.	833	360	50
KRE	Berkeley Daily Gazette	Berkeley, Calif.	1090	275	50
KSD	Post-Dispatch	St. Louis, Mo.	550	545	500
KTW	First Presbyterian Church	Seattle, Wash.	833	360	750
KUO	Examiner Printing Co.	San Francisco, Calif.	833	360	150
KUY	Coast Radio Co., Inc.	El Monte, Calif.	1170	256	50
KWG	Portable Wireless Telephone Co.	Stockton, Calif.	833	360	100
KWH	Los Angeles Examiner	Los Angeles, Calif.	833	360	500
KYQ	Electric Shop	Honolulu, Hawaii	1110	270	100
KYW	Westinghouse E. & M. Co.	Chicago, Ill.	560	535	1000
KZM	Preston D. Allen	Oakland, Calif.	833	360	100
WAAB	Valdemar Jensen	New Orleans, La.	1120	268	100
WAAC	Tulane University	New Orleans, La.	833	360	100
WAAD	Ohio Mechanics Institute	Cincinnati, Ohio	833	360	25
WAAF	Chicago Daily Drivers Journal	Chicago, Ill.	1050	286	200
WAAM	I. R. Nelson Co.	Newark, N. J.	1140	263	250
WAAN	University of Missouri	Columbia, Mo.	1180	254	50
WAAW	Omaha Grain Exchange	Omaha, Nebr.	1050	286	500
WABB	Harrisburg Sporting Goods Co.	Harrisburg, Pa.	1130	265	10
WABD	Parker High School	Dayton, Ohio	1060	283	5
WABE	Y. M. C. A.	Washington, D.C.	1060	283	100
WABH	Lake Shore Tire Co.	Sandusky, Ohio	1250	240	10
WABI	Bangor Ry. & Elec. Co.	Bangor, Me.	1250	240	100
WABL	Connecticut Agri. College	Storrs, Conn.	1060	283	100
WABM	F. E. Doherty	Saginaw, Mich.	1180	254	100
WABN	Ott Radio, Inc.	La Crose, Wis.	1230	244	500
WABO	Lake Ave. Baptist Church	Rochester, N. Y.	1060	283	10
WABP	Robert Frederick Weinig	Dover, Ohio	1130	265	200
WABQ	Haverford College Radio Club	Haverford, Pa.	1150	261	50
WABR	Scott High School (J.W.B. Foley)	Toledo, Ohio	1110	270	50
WABU	Victor Talking Machine Co.	Camden, N. J.	1330	225	50

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Call Signal	Owner of Station	Location of Station	Frequency Kilo-cycles	Wave Length Meters	Rating Oscill. Watts
WABW	The College of Wooster, Physics Dept.	Wooster, Ohio	1280	234	20
WABX	Henry B. Joy	(near) Mt. Clemens, Mich.	1110	270	500
WABY	John Magaldi, Jr.	Philadelphia, Pa.	1240	242	50
WABZ	Coliseum Place Baptist Church	New Orleans, La.	1140	263	50
WAHG	A. H. Grebe & Co.	Richmond Hill, N.Y.	950	318	500
WAAA	Purdue University	West Lafayette, Ind.	1080	283	250
WBAK	Penn. State Dept. of Police	Harrisburg, Pa.	750	400	500
WBAN	Wireless Phone Corp.	Paterson, N. J.	1230	244	100
WBAO	James Millikin University	Decatur, Ill.	1090	275	50
WBAP	The Ft. Worth Star Telegram	Fort Worth, Tex.	630	476	1000
WBAV	Erner & Hopkins Co.	Columbus, Ohio	710	423	500
WBAX	John H. Stenger, Jr.	Wilkes-Barre, Pa.	1180	254	20
WBAY	Western Elec. Co.	New York City, N.Y.	610	492	500
WBBA	Plymouth Congreg. Church	Newark, Ohio	1250	240	20
WBBD	Barbey Battery Service	Reading, Pa.	1260	238	10
WBBF	Georgia School of Technology	Atlanta, Ga.	1110	270	500
WBGG	Irving Vermilya	Mattapoisett, Mass.	1210	248	500
WBHH	J. Irving Bell	Port Huron, Mich.	1220	246	50
WBHL	Grace Covenant Church	Richmond, Va.	1060	283	5
WBHP	Petoskey High School	Petoskey, Mich.	1220	246	100
WBHR	Peoples Pulpit Ass'n.	Rossville, N. Y.	1100	273	500
WBHT	Lloyd Bros.	Philadelphia, Pa.	1280	234	5
WBHU	Jenks Motor Sales Co.	Monmouth, Ill.	1340	224	10
WBHV	Johnstown Radio Co.	Johnstown, Pa.	1210	248	5
WBHW	Ruffner Junior H. S.	Norfolk, Va.	1350	222	50
WBHY	Washington Light Infantry Co. B. 118th Inf.	Charleston, S. C.	1120	268	10
WBZZ	Noble B. Watson	Indianapolis, Ind.	1320	227	50
WBL	T. & H. Radio Co.	Anthony, Kans.	1180	254	100
WBR	Penna. State Police	Butler, Penna.	1050	286	250
WBS	D. W. May (Inc.)	Newark, N. J.	833	360	10
WBT	Southern Radio Corp.	Charlotte, N. C.	833	360	250
WBZ	Westinghouse E. & M. Co.	Springfield, Mass.	890	337	1000
WCAD	St. Lawrence University	Canton, N. Y.	1070	280	250
WCAE	Kaufman & Baer Co.	Pittsburgh, Pa.	650	461	500
WCAG	Clyde R. Randall	New Orleans, La.	1120	268	50
WCAH	Entrekin Electric Co.	Columbus, Ohio	1050	286	100
WCAJ	Nebraska Wesleyan Univ.	Univ. Place, Nebr.	1060	283	500
WCAK	Alfred P. Daniel	Houston, Texas	1140	263	10
WCAL	St. Olaf College, Physics Dept.	Northfield, Minn.	833	360	500
WCAO	Sanders & Stayman Co.	Baltimore, Md.	833	360	50
WCAP	Chesapeake & Potomac Telephone Co.	Washington, D.C.	640	469	500
WCAR	The Southern Radio Corp. of Texas	San Antonio, Tex.	833	360	100
WCAS	Dunwoody Industr. Inst.	Minneapolis, Minn.	1070	280	100
WCAT	S. Dak. State Sch. of Mines	Rapid City, S. Dak.	1250	240	50
WCAU	Durham & Co.	Philadelphia, Pa.	1050	286	250
WCAV	J. C. Dice Electric Co.	Little Rock, Ark.	833	360	10
WCAX	University of Vermont	Burlington, Vt.	833	360	50
WCAY	Milwaukee Civic Broadcasting Ass'n., Inc.	Milwaukee, Wis.	1130	265	250
WCBA	Chas. W. Heimbach	Allentown, Pa.	1070	280	5
WCBC	Univ. of Michigan	Ann Arbor, Mich.	1070	280	200
WCBD	Wilbur Glenn Voliva	Zion, Ill.	870	345	500
WCBE	Uhalt Radio Co.	New Orleans, La.	1140	263	5
WCBG	Howard S. Williams	Pasagoula, Miss. (Portable)	1120	268	10

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Call Signal	Owner of Station	Location of Station	Frequency Kilo-cycles	Wave Length Meters	Rating Oscill. Watts
WCBH	Univ. of Mississippi.....	(near)Oxford, Miss..	1240	242	10
WCBJ	Nicell, Duncan & Rush....	Bemis, Tenn.....	1250	240	50
WCBK	J. C. Maus.....	Jennings, La.....	1250	244	10
WCBL	E. Richard Hall.....	St. Petersburg, Fla..	1130	265	500
WCBO	Northern Radio Mfg. Co....	Houlton, Me.....	1070	280	50
WCBQ	The Radio Shop, Inc.....	Memphis, Tenn.....	1200	250	20
WCBR	First Baptist Church.....	Nashville, Tenn.....	1270	236	100
	Charles H. Messter.....	Providence, R. I. (Portable)	1220	246	5
WCBT	Clark Univ. Collegiate Dept.	Worcester, Mass.....	1260	238	250
WCBU	Arnold Wireless Supply Co.	Arnold, Pa.....	1180	254	50
WCBV	Tullahoma Radio Club.....	Tullahoma, Tenn....	1190	252	10
WCBW	G. P. Rankin, Jr., & M. Solomon.....	Macon, Ga.....	1330	225	10
WCBX	Radio Shop of Newark.....	Newark, N. J.....	1290	232	10
WCBY	The Forks Elec. Shop.....	Buck Hill Falls, Pa..	1120	268	10
WCBZ	Coppotelli Bros. Music House.....	Chicago Heights, Ill.	1210	248	50
WCCO	Washburn Crosby Co.....	Minneapolis, Minn..	720	417	500
WCK	Stix, Baer & Fuller Co....	St. Louis, Mo.....	833	360	100
WCX	Detroit Free Press.....	Detroit, Mich.....	580	517	500
WDAE	Tampa Daily Times.....	Tampa, Fla.....	833	360	250
WDAF	The Kansas City Star.....	Kansas City, Mo....	730	411	500
WDAG	J. L. Martin.....	Amarillo, Tex.....	1140	263	100
WDAH	Trinity Methodist Church.	El Paso, Tex.....	1120	268	100
WDAR	Lit Brothers.....	Philadelphia, Pa....	760	395	500
WDAS	Samuel A. Waite.....	Worcester, Mass.....	833	360	100
WDAU	Sloucm & Kilburn.....	New Bedford, Mass.	833	360	100
WDAY	Radio Equip. Corp.....	Fargo, N. Dak.....	1230	244	50
WDBB	A. H. Waite & Co., Inc....	Taunton, Mass.....	1310	226	10
WDBC	Kirk, Johnson & Co., Inc.	Lancaster, Pa.....	1160	259	50
WDBD	Herman E. Burns.....	Martinsburg, W. Va.	1120	268	5
WDBF	Robert G. Phillips.....	Youngstown, Ohio..	1220	246	50
WDBH	C. T. Scherer Co.....	Worcester, Mass.....	1120	268	100
WDBI	Radio Specialty Co.....	St. Petersburg, Fla..	1330	225	10
WDBJ	Richardson & Wayland Elec Corp.....	Roanoke, Va.....	1310	229	50
WDBL	Wisconsin Dept. of Markets	Stevens Points, Wis.	1080	278	500
WDBO	Rollins College, Inc.....	Winter Park, Fla....	1250	240	50
WDBP	Superior State Normal School.....	Superior, Wis.....	1150	261	50
WDBQ	Morton Radio Supply Co.	Salem, N. J.....	1280	234	10
WDBR	Tremont Temple Baptist Church.....	Boston, Mass.....	1170	256	100
WDBS	The S. M. K. Radio Corp....	Dayton, Ohio.....	1060	283	5
WDBT	Taylor's Book Store.....	Hattiesburg, Miss..	1270	236	10
WDBU	Somerset Radio Co.....	Skowhegan, Me.....	1160	259	10
WDBV	The Radio Den.....	Columbia, Tenn.....	1120	268	20
WDBX	Otto Baur.....	New York, N. Y.....	1290	232	5
WDBY	North Shore Cong. Church.	Chicago, Ill.....	1160	259	500
WDBZ	Boy Scouts of America.....	Kingston, N. Y.....	1290	232	5
WDM	Grace Church of the Covenant.....	Washington, D.C....	1280	234	50
WDX	James L. Bush.....	Tuscola, Ill.....	1080	278	10
WEAA	Frank D. Fallain & (Police Dept.).....	Flint, Mich.....	1070	280	50
WEAF	American Tel. & Tel. Co....	New York City, N. Y.	610	492	1000
WEAH	Wichita Board of Trade....	Wichita, Kans.....	1070	280	100
WEAI	Cornell University.....	Ithaca, N. Y.....	1050	286	500
WEAJ	Univ. of South Dakota.....	Vermillion, S. Dak..	1060	283	100
WEAM	Borough of No. Plainfield.	N. Plainfield, N. J..	1050	286	150
WEAN	The Shepard Company.....	Providence, R. I.....	1100	273	100
WEAO	Ohio State University.....	Columbus, Ohio.....	1020	294	500
WEAP	Mobile Radio Co., Inc.....	Mobile, Ala.....	833	360	100

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Call Signal	Owner of Station	Location of Station	Frequency Kilo-cycles	Wave Length Meters	Rating Oscill. Watts
WEAR	Baltimore News and American Publishing Co.....	Baltimore, Md.....	1150	261	50
WEAU	Davidson Bros. Co.....	Sioux City, Iowa...	1090	275	100
WEAY	Iris Theatre.....	Houston, Tex.....	833	360	500
WEB	Benwood Co., Inc.....	St. Louis, Mo.....	1100	273	100
WEBA	The Electric Shop.....	Highland Park, N. J.	1290	232	15
WEBC	Walter Cecil Bridges.....	Superior, Wis.....	1240	242	10
WEBD	Electrical Equip. & Serv. Co.	Anderson, Ind.....	1220	246	10
WEBE	Roy W. Walker.....	Cambridge, Ohio...	1210	248	10
WEBH	Edgewater B&A Hotel Co.	Chicago, Ill.....	810	370	500
WEBI	Walter H. Gibbons.....	Salisbury, Md.....	1240	242	15
WEBJ	Third Ave. Ry. Co.....	New York, N. Y.....	1100	273	500
WEBK	Grand Rapids Radio Co....	Grand Rapids, Mich	1150	261	20
WEBL	Radio Corp. of America....	U. S. (Portable)...	1350	225	100
WEO	Radio Company.....	Hamilton, Ohio.....	1200	250	5
WEOP	Spanish Fort Amusement Park.....	New Orleans, La....	1070	280	50
WEQQ	Tate Radio Co.....	Harrisburg, Ill.....	1330	225	10
WEBR	H. H. Howell.....	Buffalo, N. Y.....	1250	240	15
WEBS	First Baptist Church.....	New Orleans, La....	1190	252	50
WEBT	The Dayton Co-operative Industrial High School.	Dayton, Ohio.....	1110	270	5
WEBU	De Land Piano & Mus. Co.	De Land, Fla.....	1160	259	5
WEBW	Beloit College.....	Beloit, Wis.....	1060	283	500
WEBX	John E. Cain, Jr.....	Nashville, Tenn.....	1140	263	50
WEBY	Hobart Radio Co.....	Rosindale, Mass....	1330	225	10
WEBZ	Savannah Radio Corp....	Savannah, Ga.....	1070	280	5
WEI	The Edison Electric Illuminating Co.....	Boston, Mass.....	990	303	500
WEV	Hurlburt-Stull Electrical Co.	Houston, Tex.....	1140	263	100
WEW	St. Louis University.....	St. Louis, Mo.....	1070	280	100
WEAA	Dallas News & Dallas Jour.	Dallas, Tex.....	630	476	500
WEAB	Carl F. Weese.....	Syracuse, N. Y.....	1280	234	100
WEAM	Times Publishing Co.....	St. Cloud, Minn....	833	360	20
WEAN	Hutchinson Elec. Serv. Co.	Hutchinson, Minn..	1050	286	100
WEAV	University of Nebraska.....	Lincoln, Nebr.....	1090	275	250
WEBB	Eureka College.....	Eureka, Ill.....	1250	240	50
WEBG	Wm. F. Gable Co.....	Altoona, Pa.....	1150	261	100
WEBH	Concourse Radio Co.....	New York, N. Y.....	1100	273	500
WEBI	Galvin Radio Supply Co....	Camden, N. J.....	1270	236	100
WEBJ	St. John's University.....	Collegeville, Minn..	1270	236	50
WEBK	Dartmouth College.....	Hanover, N. H.....	1170	256	100
WEBL	Merchants Heat & Light Co.	Syracuse, N. Y.....	1050	286	100
WEBM	Radio Sales & Service Co....	Indianapolis, Ind...	1120	268	250
WEBN	Ainworth-Gates Radio Co..	Ridgewood, Mass....	1330	225	200
WEBW	Strawbridge & Clothier.....	Cincinnati, Ohio...	970	309	750
WGAL	Lancaster Electric Supply & Construction Col.	Philadelphia, Pa....	760	395	500
WGAN	Cecil E. Lloyd.....	Lancaster, Pa.....	1210	248	50
WGAP	Yourse Hotel.....	Pensacola, Fla.....	833	360	50
WGAZ	South Bend Tribune.....	Shreveport, La....	1190	252	150
WGBS	South Bend Tribune.....	South Bend, Ind....	833	360	250
WGT	Gimbel Brothers.....	New York, N. Y.....	950	316	1000
WGI	Air. Rad. & Research Corp.	Medford Hillside, Mass.....	833	360	100
WGL	Thos. F. J. Howlett.....	Philadelphia, Pa....	833	360	250
WGN	Chicago Tribune and Drake Hotel.....	Chicago, Ill.....	810	370	500
WGR	General Tel. Mfg. Co.....	Buffalo, N. Y.....	940	319	750
WGY	General Electric Co.....	Schenectady, N. Y..	790	380	1000
WHA	University of Wisconsin...	Madison, Wis.....	1090	275	500
WHAA	State Univ. of Iowa.....	Iowa City, Iowa....	620	484	500
WHAD	Marquette University.....	Milwaukee, Wis....	1070	280	100
WHAG	Univ. of Cincinnati.....	Cincinnati, Ohio...	1350	222	200

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Call Signal	Owner of Station	Location of Station	Frequency Kilo-cycles	Wave Length Meters	Rating Oscill. Watts
WHAK	Roberts Hardware Co....	Clarksburg, W. Va..	1260	238	15
WHAM	Univ. of Rochester.....	Rochester, N.Y....	1060	283	100
WHAR	Paramount Radio & Elec. Co.	Atlantic City, N. J..	1090	275	100
WHAS	Courier-Journal & Louisville Times.....	Louisville, Ky.....	750	400	500
WHAV	Wilmington Elec. Spec. Co.	Wilmington, Del....	833	360	100
WHAZ	Rensselaer Polytechnic Inst.	Troy, N. Y.....	790	380	500
WHB	Sweeney Automotive and Electrical School.....	Kansas City, Mo....	730	411	500
WHK	The Radiovox Co.....	Cleveland, Ohio....	1060	283	100
WHN	Loew's State Theatre Studio.....	New York, N. Y....	833	360	500
WHO	Bankers Life Co.....	Des Moines, Ia.....	570	526	500
WHAB	Art A. Johnson's Garage....	Rockford, Ill.....	1190	252	50
WHAC	Galveston Tribune.....	Galveston, Tex.....	833	360	100
WHAD	Howard R. Miller.....	Philadelphia, Pa....	1180	254	100
WHAK	Journal-Stockman Co.....	Omaha, Nebr.....	1080	278	250
WHAS	Home Electric Co.....	Burlington, Iowa..	1060	283	100
WIK	K. & L. Elec. Co.....	McKeesport, Pa....	1280	234	100
WIP	Gimbel Brothers.....	Philadelphia, Pa....	590	508	500
WJAB	American Elec. Co.....	Lincoln, Neb.....	1310	229	100
WJAD	Frank P. Jackson.....	Waco, Tex.....	833	360	150
WJAG	The Norfolk Daily News...	Norfolk, Nebr.....	1060	283	250
WJAK	Clifford L. White.....	Greentown, Ind....	1180	254	30
WJAM	D. M. Perham.....	Cedar Rapids, Iowa	1120	268	20
WJAN	Peoria Star Co.....	Peoria, Ill.....	1070	280	100
WJAR	The Outlet Co.....	Providence, R. I....	833	360	500
WJAS	Pittsburgh Radio Sup. Hse.	Pittsburgh, Pa....	1050	286	500
WJAX	Union Trust Co.....	Cleveland, Ohio....	770	390	500
WJAZ	Chicago Radio Lab.....	Chicago, Ill. (Port.)	1120	268	100
WJJD	Denison Univ.....	Denison, Ohio.....	1310	229	100
WJJD	Sup. Lodge Loy. Ord. Moose	Mooseheart, Ill....	1080	278	500
WJY	Radio Corp. of America....	New York, N. Y....	740	405	750
WJZ	Radio Corp. of America....	New York, N. Y....	660	454	500
WKAA	H. F. Parr.....	Cedar Rapids, Iowa	1080	278	500
WKAD	Charles Looff.....	East Providence, R. I.	1250	240	20
WKAF	W. S. Radio Supply Co....	Wichita Falls, Tex.	833	360	100
WKAN	United Battery Serv. Co....	Montgomery, Ala....	1330	225	20
WKAP	Dutee W. Flint.....	Cranston, R. I....	833	360	50
WKAQ	Radio Corp. of P. R.....	San Juan, Porto Rico	833	360	500
WKR	Mich. Agri. College.....	East Lansing, Mich.	1070	280	500
WKAV	The Laconia Radio Club...	Laconia, N. H.....	1180	254	50
WKAY	Brenau College.....	Gainesville, Ga....	1070	280	10
WKBF	Dutee Wilcox Flint.....	Cranston, R. I....	1050	286	500
WKY	WKY Radio Shop.....	Oklahoma City, Okla.	833	360	100
WLAH	Samuel Woodworth.....	Syracuse, N. Y....	1280	234	100
WLAL	Naylor Elec. Co.....	Tulsa, Okla.....	833	360	100
WLAP	W. V. Jordan.....	Louisville, Ky.....	1060	286	20
WLAX	Greencastle Community Broadcasting Station...	Greencastle, Ind....	1300	231	10
WLBL	Wisconsin Dept. of Markets	Stevens Point, Wis.	1080	278	500
WLS	Sears, Roebuck & Co.....	Chicago, Ill.....	870	345	500
WLW	Crosley Radio Corp.....	Cincinnati, Ohio...	710	423	500
WMAC	Clive B. Meredith.....	Cazenovia, N. Y....	1150	261	100
WMAF	Round Hills Radio Corp...	S. Dartmouth, Mass.	833	360	500
WMAH	General Supply Co.....	Lincoln, Nebr.....	1180	254	100
WMAK	Lockport Brd. of Commerce	Lockport, N. Y....	1100	273	500
WMAQ	First Baptist Church.....	Columbus, Ohio....	1050	286	50
WMAQ	Chicago Daily News.....	Chicago, Ill.....	670	448	500
WMAV	Alabama Polytechnic Inst.	Auburn, Ala.....	1200	250	500
WMAY	Kingshighway Presby. Ch.	St. Louis, Mo.....	1070	280	100
WMAZ	Mercer University.....	Macon, Ga.....	1150	261	100
WMC	The Commercial Pub. Co....	Memphis, Tenn....	600	500	500
WMU	Doubleday-Hill Elec. Co....	Washington, D.C....	1160	261	100

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Call Signal	Owner of Station	Location of Station	Frequency Kilo-cycles	Wave Length Meters	Rating Oscill. Watts
WNAC	Shepard Stores.....	Boston, Mass.....	1090	278	100
WNAD	Univ. of Oklahoma.....	Norman, Okla.....	1180	254	100
WNAL	Omaha Central High School	Omaha, Nebr.....	1160	259	20
WNAP	Wittenberg College.....	Springfield, Ohio..	1090	275	100
WNAR	First Christian Church....	Butler, Mo.....	1300	231	20
WNAT	Lenning Bros. Co.....	Philadelphia, Pa....	833	360	100
WNAW	Henry Kunzman.....	Fort Monroe, Va....	833	360	10
WNAX	Dakota Radio App. Co....	Yankton, S. D.....	1230	244	100
WNYC	Dept. of Plant and Structure	New York, N. Y....	570	526	1000
WOAC	Pagan Organ Co.....	Lima, Ohio.....	1130	265	150
WOAE	Midland College.....	Fremont, Nebr.....	1070	280	15
WOAF	Tyler Commercial College.	Tyler, Texas.....	833	360	20
WOAI	Southern Equip. Co.....	San Antonio, Tex...	780	384	500
WOAN	James D. Vaughan.....	Lawrenceburg, Tenn.	833	360	200
WOAR	Henry P. Lundakow.....	Kenosha, Wis.....	1310	229	50
WOAV	Pennsylvania Nat. Guard...	Erie, Pa.....	1240	242	50
WOAW	Sovereign Camp, Woodmen of the World.....	Omaha, Nebr.....	570	526	500
WOAX	Franklyn J. Wolf.....	Trenton, N. J.....	1250	240	500
WOC	Palmer Sch. of Chiropractic	Davenport, Iowa..	620	484	500
WOI	Iowa State College.....	Ames, Iowa.....	833	360	500
WOO	John Wanamaker.....	Philadelphia, Pa....	590	508	500
WOQ	Western Radio Co.....	Kansas City, Mo....	833	360	500
WOR	L. Bamberger & Co.....	Newark, N. J.....	740	405	500
WOS	Mo. State Marketing Bur...	Jefferson City, Mo.	680	441	500
WPAB	Pennsylvania State College	State College, Pa....	1060	283	500
WPAC	Donaldson Radio Co.....	Okmulgee, Okla....	833	360	100
WPAD	Doolittle Radio Corp.....	New Haven, Conn....	1120	268	100
WPAK	Agri. College of N. Dakota	Fargo, N. Dakota..	1060	283	50
WPAL	Avery & Loeb Elec. Co....	Columbus, Ohio....	1050	286	500
WPAM	Auerbach & Geattel.....	Topeka, Kans.....	1090	275	100
WPAR	Ward Battery & Radio Co.	Beloit, Kansas....	1270	236	10
WPAU	Concordia College.....	Headhead, Minn....	1050	286	10
WPAA	Dr. John R. Koch.....	Charleston, W. Va..	1100	273	10
WQAA	Horace A. Beale, Jr.....	Parkersburg, Pa....	833	360	500
WQAC	Gish Radio Service.....	Amarillo, Tex.....	1280	234	100
WQAE	Moore Radio News Station	Springfield, Vt....	1090	275	50
WQAF	Sandusky Register.....	Sandusky, Ohio....	1250	240	5
WQAM	Electrical Equip. Co.....	Miami, Fla.....	1060	283	100
WQAN	Seranton Times.....	Seranton, Pa.....	1070	280	100
WQAO	Calvary Baptist Church...	New York, N. Y....	833	360	100
WQAQ	Abilene Daily Reporter (West Texas Radio Co.)	Abilene, Tex.....	833	360	50
WQAS	Prince-Walter Co.....	Lowell, Mass.....	1130	265	100
WQAX	Radio Equip. Co.....	Peoria, Ill.....	1210	248	100
WQJ	Calumet Baking Powder Co.	Chicago, Ill.....	670	448	500
WRAF	Radio Club, Inc.....	Laporte, Ind.....	1340	224	10
WRAL	Northern States Power Co.	St. Croix Falls, Wis.	1210	248	10
WRAM	Lombard College.....	Galesburg, Ill.....	1230	244	100
WRAN	Black Hawk Elec. Co.....	Waterloo, Iowa....	1270	236	10
WRAO	St. Louis Radio Service Co.	St. Louis, Mo.....	833	360	10
WRAV	Antioch College.....	Yellow Springs, O..	1240	242	100
WRAW	Avenue Radio & Elec. Shop	Reading, Pa.....	1260	238	10
WRAZ	Flexon's Garage.....	Gloucester City, N. J.	1120	268	100
WRBC	Immanuel Lutheran Church	Valparaiso, Ind....	1080	278	500
WRC	Radio Corp. of America....	Washington, D. C..	640	469	500
WRK	Doron Bros. Elec. Co....	Hamilton, Ohio....	833	360	200
WRL	Union College.....	Schenectady, N. Y..	833	360	500
WRM	Univ. of Illinois.....	Urbana, Ill.....	833	360	500
WRR	City of Dallas, Police and Fire Signal Dept....	Dallas, Texas.....	833	360	30
WRT	Tarrytown Radio Research	Tarrytown, N. Y....	1100	273	500
WSAC	Clemson Agri. College.....	Clemson College, S. C.	833	360	500
WSAD	J. A. Foster Co.....	Providence, R. I....	1150	261	100

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Active Broadcasting Stations, October 24, 1924

Call Signal	Owner of Station	Location of Station	Frequency Kilo-cycles	Wave Length Meters	Rating Oscill. Watts
WSAI	U. S. Playing Card Co....	Cincinnati, Ohio....	970	309	500
WSAJ	Grove City College.....	Grove City, Pa.....	1160	259	250
WSAP	Seventh Day Adventist Church.....	New York, N.Y....	1140	263	250
WSAR	Doughty & Welch Elec. Co.	Fall River, Mass....	1180	254	10
WSAU	Camp Marienfeld.....	Chesham, N. H.....	1310	229	10
WSAV	Clifford W. Vick Radio Constr. Co.....	Houston, Tex.....	833	360	100
WSAX	Chicago Radio Lab.....	Chicago, Ill.....	1120	268	20
WSAZ	Chase Electric Shop.....	Pomeroy, Ohio.....	1160	259	50
WSB	Atlanta Journal.....	Atlanta, Ga.....	700	428	500
WSL	J. & M. Electric Co.....	Utica, N. Y.....	1100	273	10
WSOE	School of Eng. of Milwaukee	Milwaukee, Wis....	1220	246	100
WSY	Alabama Power Co.....	Birmingham, Ala...	833	360	500
WTAB	Fall River Daily Herald Co.	Fall River, Mass....	1130	265	100
WTAC	Penn Traffic Co.....	Johnstown, Pa.....	1090	275	150
WTAF	Louis J. Gallo.....	New Orleans, La....	1120	268	10
WTAJ	The Radio Shop.....	Portland, Maine....	1270	236	10
WTAL	Toledo Radio & Elec. Co.	Toledo, Ohio.....	1190	262	10
WTAM	The Willard Stor. Batt. Co.	Cleveland, Ohio....	770	389	1000
WTAP	Cambridge Radio & Elec. Co.	Cambridge, Ill.....	1240	242	50
WTAQ	S. H. Van Gorden & Son.	Osseo, Wis.....	1180	254	100
WTAR	Reliance Elec. Co.....	Norfolk, Va.....	1070	280	100
WTAS	Chas E. Erbstein.....	Elgin, Ill.....	1050	286	500
WTAT	The Edison Elec. Illuminating Co. of Boston.....	Boston, Mass. (Portable)	1220	246	100
WTAU	Ruegy Battery & Elec. Co.	Tecumseh, Nebr....	1240	242	10
WTAW	Agri. & Mech. Col. of Tex.	College Station, Tex.	1070	280	250
WTAX	Williams Hardware Co.	Streator, Ill.....	1300	231	50
WTAY	Oak Leaves Broadcasting Station (Pioneer Pub. Co.)	Oak Park, Ill.....	1060	283	500
WTAZ	Thomas J. McGuire.....	Lambertville, N. J.	1060	283	15
WTG	Kansas State Agri. College	Manhattan, Kans...	1100	273	50
WWAD	Wright & Wright, Inc.	Philadelphia, Pa....	833	360	500
WWAE	The Alamo Ball Room.....	Joliet, Ill.....	1240	242	500
WWAO	Michigan College of Mines	Houghton, Mich....	1230	244	250
WWI	Ford Motor Co.....	Dearborn, Mich....	1100	273	250
WWJ	Evening News Ass'n.....	Detroit, Mich.....	680	517	500
WWL	Loyola University.....	New Orleans, La....	1120	268	5

MEXICAN BROADCASTING STATIONS

CYB	El Buen Tono.....	S.A. Mex. City, Mex....	681	440	50
CYL	La Casa del Radio.....	Mexico City, Mex....	600	500	500
8CYR	Rosetter y Cia.....	Mazatlan, Sinaloa, Mexico.....	681	440	50

AUSTRALIAN BROADCASTING STATIONS

2BS	Broadcasters Sydney, Ltd.	Sydney, N.S.W.....	857	350	500
2FC	Farmers & Co.....	Sydney, N.S.W.....	273	100	5000
2FL	Farmers & Co.....	Sydney, N.S.W.....	389	770	500
3AR	Associated Radio Co. of Aust.	Melbourne, Victoria.	625	480	1600
3FO	Broadc'g Co. of Australia.	Melbourne, Victoria.	750	400	500
3LO	Broadc'g Co. of Australia.	Melbourne, Victoria.	174	1720	5000
3MA	Millwood Auto & Radio Co.	Adelaide, S. Australia	353	480	3000
6AR	Associated Radio Co.....	Perth, S. Australia..	833	360	1600
6WF	Westralian Farmers, Ltd....	Perth, W. Australia..	240	1250	5000

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Active Broadcasting Stations, October 24, 1924

CANADIAN BROADCASTING STATIONS

Call Signal	Owner of Station	Location of Station	Frequency Kilo-cycles	Wave Length Meters	Rating Oscill. Watts
CFAC	The Calgary Herald.....	Calgary, Alberta...	697	430	500
CFCA	Star Pub. & Print. Co.....	Toronto, Ontario...	750	400	1000
CFCF	Marconi Wireless Telegraph Co. of Canada.....	Montreal, Quebec...	681	440	500
CFCH	Abitibi Power & Paper Col.	Iroquois Falls Ont...	750	400	250
CFCK	Radio Supply Co., Ltd....	Edmonton, Alberta.	731	410	50
CFCL	Centennial Me. Church....	Victoria, B. C.....	750	400	125
CFCN	W. W. Grant Radio, Ltd....	Calgary, Alberta....	681	440	1000
CFCQ	Radio Specialties, Ltd....	Vancouver, B.C.....	666	450	5
CFCR	Laurentide Air Service, Ltd.	Sudbury, Ont.....	731	410	50
CFCT	Victoria City Temple.....	Victoria, B.C.....	731	410	250
CFCU	Jack V. Elliot, Ltd.....	Hamilton, Ont.....	731	410	5
CFCW	London Radio Company....	London, Ont.....	697	430	150
CFCD	Sparks Company.....	Nanaimo, B.C.....	697	430	50
CFHC	Henry Birks & Sons, Ltd..	Calgary, Alberta....	681	440	1000
CFKQ	D. J. Fendell.....	Thorold, Ontario...	1016	295	75
CFLC	Chas. Guy Hunter.....	London, Ontario...	697	430	50
CFQK	The Electric Shop, Ltd....	Saskatoon, Sask....	750	400	50
CFRC	Queens University.....	Kingston, Ont.....	666	450	500
CFXK	Westminster Trust Co.....	New Westminster, B.C.	681	440	20
CFYU	Victor Wentworth Odium..	Vancouver, B.C.....	750	400	5
CHBC	The Albertan Pub. Co.....	Calgary, Alberta....	731	410	125
CHCE	Western Can. Radio Supply	Victoria, B.C.....	750	400	5
CHCM	Riley & McCormick, Ltd..	Calgary, Alberta....	681	440	1000
CHCS	The Hamilton Spectator...	Hamilton, Ont.....	731	410	125
CHNC	Toronto Radio Research Soc.	Toronto, Ontario...	857	350	50
CHUC	International Bible Students Association.....	Saskatoon, Sask....	750	400	50
CHXC	J. R. Booth, Jr.....	Ottawa, Ontario...	690	435	250
CHYC	Northern Elec. Co., Ltd..	Montreal, Quebec...	880	341	500
CJBC	Jarvis St. Baptist Church..	Toronto, Ontario...	961	312	1000
CJCA	The Edmonton Journal, Ltd.	Edmonton, Alberta.	666	450	125
CJCD	T. Eaton Co., Ltd.....	Toronto, Ontario...	731	410	50
CJCE	Sprott-Shaw Radio Co....	Vancouver, B.C.....	750	400	50
CJCF	The News Record.....	Kitchener, Ontario..	1016	295	100
CJCK	Rad. Corp. of Calgary, Ltd.	Calgary, Alberta....	950	316	250
CJCM	J. L. Phillippe Landry.....	Monti Joli, Quebec..	961	312	500
CJCN	Simons, Agnew & Co.....	Toronto, Ontario...	731	410	1000
CJCG	London Free Press Printing Co., Ltd.....	London, Ontario...	697	430	50
CJSC	The Evening Telegram.....	Toronto, Ontario...	697	430	125
CKAK	La Presse Pub. Co., Ltd..	Montreal, Quebec...	692	425	500
CKCD	Vancouver Daily Province.	Vancouver, B.C.....	731	410	500
CKCE	Canadian Independent Telephone Co.....	Toronto, Ontario...	666	450	1000
CKCI	Le "Soleil" Limitee.....	Quebec, P.Q.....	1016	295	50
CKCK	Leader Pub. Co., Ltd.....	Regina, Sask.....	714	420	1000
CKCO	Dr. G. M. Geldert (for Ottawa Radio Ass'n)...	Ottawa, Ont.....	750	400	50
CKCX	P. Burns & Co., Ltd.....	Calgary, Alberta....	681	440	1000
CKFC	First Congregational Church	Vancouver, B.C.....	779	385	50
CKLC	Wilkinson Electric Co....	Calgary, Alberta....	750	400	50
CKOC	Wentworth Radio Supply Co., Ltd.....	Hamilton, Ontario...	731	410	50
CKY	Manitoba Tel. System.....	Winnipeg, Manitoba	666	450	500
CNRC	Canad. National Railways	Calgary, Alberta....	681	440	1000
CNRE	" " " "	Edmonton, Alberta.	666	450	125
CNRM	" " " "	Montreal, Quebec...	880	341	500
CNRO	" " " "	Ottawa, Ontario...	690	435	500
CNRR	" " " "	Regina, Sask.....	714	420	1000
CNRS	" " " "	Saskatoon, Sask....	750	400	50
CNRT	" " " "	Toronto, Ontario...	760	400	1000
CNRW	" " " "	Winnipeg, Man.....	666	450	500

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BRITISH BROADCASTING STATIONS

Call Signal	Owner of Station	Location of Station	Frequency Kilo-cycles	Wave Length Meters	Rating Oscill. Watts
2BD	17 Belmont St., Aberdeen..	Aberdeen Steam Laundry.....	605	495	1500
6BM	72 Holdenhurst Road, Bournemouth.....	Bushey Road, North Cemetery.....	778	385	1500
5IT	105 New Street, Birmingham.....	Summer Lane Power Station.....	631	475	1000
2LO	2 Savoy Hill, Victoria Embankment, London.....	Marconia House, Strand.....	821	365	1500
5NO	24 Eldon Sq., Newcastle.....	CWS Bldg., Blandford Street.....	750	400	1500
5SC	202 Bath Street, Glasgow.....	Port Dundas.....	714	420	1500
5WA	19 Castle Street, Cardiff.....	Eldon Rd. Generating Station.....	857	350	1500
2ZY	57 Dickinson Street.....	Manchester.....	789	375	1500
6SL	Union Grinding Wheel, Sheffield.....	Corporation Street	989	303	100

CUBAN BROADCASTING STATIONS

Call Signal	Owner of Station	Location of Station	Frequency Kilo-cycles	Wave Length Meters	Rating Oscill. Watts
PW3	Cuban Telephone Co.....	Havana.....	750	400	500
2AB	Alberto S. Bustamante.....	".....	1249	240	20
2BY	Frederick W. Borton.....	".....	1153	260	100
2CX	Frederick W. Borton.....	".....	937	320	10
2DW	Pedro Zayas.....	".....	999	300	100
2EV	Westinghouse Electric Co.....	".....	1363	220	50
2HS	Julio Power.....	".....	1666	180	20
2JQ	Raul Peres Falcon.....	".....	1999	150	10
2KD	E. Sanchez de Fuentes.....	".....	857	350	100
2KP	Alvaro Dasa.....	".....	1499	200	10
2LC	Luis Casas.....	".....	1199	250	30
2MG	Manuel G. Salas.....	".....	1071	280	20
2OK	Mario Garcia Veles.....	".....	833	360	100
2OL	Oscar Collado.....	".....	1034	290	15
2TW	Roberto E. Ramirez.....	".....	1304	230	20
2WW	Amadeo Saens.....	".....	1428	210	20
5EV	Leopoldo V. Figueroa.....	Colon.....	833	360	100
6AZ	Valentin Ullivarri.....	Cienfuegos.....	1499	200	10
6BY	Jose Ganduxe.....	".....	999	300	100
6CX	Antonio T. Figueroa.....	".....	1764	170	20
6DW	Eduardo Terry.....	".....	1330	225	10
6EV	Josefa Alvarez.....	Caibarien.....	1330	225	20
6GT	Juan Pablo Ros.....	Cienfuegos.....	1578	190	10
6KJ	Frank H. Jones.....	Tuinicu.....	1090	275	100
6KW	Frank H. Jones.....	".....	882	340	100
7AZ	Pedro Noguera.....	Camaguey.....	1330	225	10
7BY	Eduardo V. Figueroa.....	C. De Avila.....	1275	235	20
7SR	Salvador Rionda.....	C. Elia.....	857	350	500
8AZ	Afredo Broocks.....	Santiago de Cuba.....	1249	240	20
8BY	Alberto Ravelo.....	".....	1199	250	100
8DW	Pedro C. Andux.....	".....	1666	180	75
8EV	Eduardo Mateos.....	".....	1330	225	15
8FU	Andres Vinnet.....	".....	1330	225	15
8GT	Juan E. Chibas.....	".....	1153	260	50

ARGENTINE BROADCASTING STATIONS

Call Signal	Owner of Station	Location of Station	Frequency Kilo-cycles	Wave Length Meters	Rating Oscill. Watts
LOR	Radio Argentina.....	Buenos Aires.....	750	400	1500
LOV	F. Brusa.....	Buenos Aires.....	857	350	500
LOW	Grand Splendid.....	Buenos Aires.....	923	325	1000
LOX	Radio Cultura.....	Buenos Aires.....	800	375	500
LOY	Radio Nacional.....	Buenos Aires.....	923	325	1000
LOZ	Radio South America.....	Monte Grande.....	706	425	500

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GEOGRAPHICAL LIST OF BROADCASTING STATIONS

October 24, 1924

(See Alphabetical List for details)

Alabama		Taft.....	KFQC	Eureka.....	WFBW
Auburn.....	WMAV	Whittier.....	KFOC	Galesburg.....	WRAM
Birmingham.....		Colorado		Harrisburg.....	WBQB
Mobile.....	WEAP	Boulder.....	KFAJ	Joliet.....	WBAE
Montgomery.....	WKAN	Colorado Sprgs.....	KFKZ	Monmouth.....	WBBU
Alaska		Denver.....	KFAF	Mooseheart.....	WJJD
Anchorage.....	KFQD	Oak Park.....	KFAF	Oak Park.....	WTAY
Juneau.....	KFTU	Peoria.....	KFDL	Peoria.....	WJAN
Kukak Bay.....	KNT	Rockford.....	KFEL	Rockford.....	WQAX
Arizona		Phoenix.....	KFLE	Streator.....	KFLV
Phoenix.....	KFAD	Tucson.....	KFPO	Tuscola.....	WLAB
Tucson.....	KFCB	Conway.....	KFRI	Urbana.....	WTAX
Arkansas		Conway.....	KFDH	Zion.....	WIBZ
Fayetteville.....	KFKQ	Conway.....	KFKQ	Zion.....	WCBW
Fort Smith.....	KFKJ	Fayetteville.....	KFMQ	Anderson.....	WEBB
Little Rock.....	KFOZ	Fort Smith.....	KFOZ	Greencastle.....	WLAX
California		Little Rock.....	KFLQ	Greentown.....	WJAK
Bakersfield.....	KDZB	Storrs.....	KFMB	Indianapolis.....	WBBZ
Berkeley.....	KRE	Storrs.....	WCAY	Indianapolis.....	WFBM
Burlingame.....	KFNZ	Storrs.....	WABL	Lafayette.....	WRAF
Culver City.....	KFQH	Storrs.....	WABL	South Bend.....	WGAZ
El Monte.....	KFOI	Storrs.....	WABL	Valparaiso.....	WRBC
Fresno.....	KUJ	Storrs.....	WABL	West Lafayette.....	WBAA
Hollywood.....	KFAR	Storrs.....	WABL	Ames.....	WJOI
Hollywood.....	KFQZ	Storrs.....	WABL	Atlantic.....	KFLZ
Holy City.....	KFQU	Storrs.....	WABL	Boone.....	KFGQ
Long Beach.....	KFON	Storrs.....	WABL	Burlington.....	WIAS
Los Angeles.....	KFCL	Storrs.....	WABL	Cedar Falls.....	KFJX
Los Angeles.....	KFI	Storrs.....	WABL	Cedar Rapids.....	WJAM
Los Angeles.....	KFPF	Storrs.....	WABL	Davenport.....	WCAA
Los Angeles.....	KFPR	Storrs.....	WABL	Des Moines.....	WOC
Los Angeles.....	KFGQ	Storrs.....	WABL	Fort Dodge.....	WHER
Los Angeles.....	KFSG	Storrs.....	WABL	Fort Dodge.....	KFER
Los Angeles.....	KHJ	Storrs.....	WABL	Fort Dodge.....	KFER
Los Angeles.....	KJS	Storrs.....	WABL	Fort Dodge.....	KFER
Los Angeles.....	KNX	Storrs.....	WABL	Fort Dodge.....	KFER
Los Angeles.....	KWH	Storrs.....	WABL	Fort Dodge.....	KFER
Oakland.....	KGO	Storrs.....	WABL	Fort Dodge.....	KFER
Oakland.....	KLS	Storrs.....	WABL	Fort Dodge.....	KFER
Oakland.....	KLX	Storrs.....	WABL	Fort Dodge.....	KFER
Oakland.....	KZM	Storrs.....	WABL	Fort Dodge.....	KFER
Paso Robles.....	KFNL	Storrs.....	WABL	Fort Dodge.....	KFER
Richmond.....	KFOU	Storrs.....	WABL	Fort Dodge.....	KFER
Sacramento.....	KFBK	Storrs.....	WABL	Fort Dodge.....	KFER
San Diego.....	KDPT	Storrs.....	WABL	Fort Dodge.....	KFER
San Diego.....	KDYM	Storrs.....	WABL	Fort Dodge.....	KFER
San Diego.....	KFCB	Storrs.....	WABL	Fort Dodge.....	KFER
San Francisco.....	KFPV	Storrs.....	WABL	Fort Dodge.....	KFER
San Francisco.....	KKFC	Storrs.....	WABL	Fort Dodge.....	KFER
San Francisco.....	KPO	Storrs.....	WABL	Fort Dodge.....	KFER
San Francisco.....	KUO	Storrs.....	WABL	Fort Dodge.....	KFER
San Jose.....	KQW	Storrs.....	WABL	Fort Dodge.....	KFER
San Luis Obispo.....	KFBE	Storrs.....	WABL	Fort Dodge.....	KFER
Santa Ana.....	KFAW	Storrs.....	WABL	Fort Dodge.....	KFER
Santa Barbara.....	KFHJ	Storrs.....	WABL	Fort Dodge.....	KFER
Santa Rosa.....	KFNW	Storrs.....	WABL	Fort Dodge.....	KFER
Stanford Univ.....	KFGH	Storrs.....	WABL	Fort Dodge.....	KFER
Stockton.....	KJQ	Storrs.....	WABL	Fort Dodge.....	KFER
Stockton.....	KWG	Storrs.....	WABL	Fort Dodge.....	KFER
Chicago.....	KYW	Storrs.....	WABL	Fort Dodge.....	KFER
Chicago.....	WTAP	Storrs.....	WABL	Fort Dodge.....	KFER
Chicago.....	WAAF	Storrs.....	WABL	Fort Dodge.....	KFER
Chicago.....	WDBY	Storrs.....	WABL	Fort Dodge.....	KFER
Chicago.....	WEBH	Storrs.....	WABL	Fort Dodge.....	KFER
Chicago.....	WGN	Storrs.....	WABL	Fort Dodge.....	KFER
Chicago.....	WJAZ	Storrs.....	WABL	Fort Dodge.....	KFER
Chicago.....	WLS	Storrs.....	WABL	Fort Dodge.....	KFER
Chicago.....	WMAQ	Storrs.....	WABL	Fort Dodge.....	KFER
Chicago.....	WJQJ	Storrs.....	WABL	Fort Dodge.....	KFER
Chicago.....	WSAX	Storrs.....	WABL	Fort Dodge.....	KFER
Chicago Heights.....	WCWB	Storrs.....	WABL	Fort Dodge.....	KFER
Decatur.....	WBAO	Storrs.....	WABL	Fort Dodge.....	KFER
Elgin.....	WTAS	Storrs.....	WABL	Fort Dodge.....	KFER
Chicago.....	WJAZ	Storrs.....	WABL	Fort Dodge.....	KFER
Chicago.....	WLS	Storrs.....	WABL	Fort Dodge.....	KFER
Chicago.....	WMAQ	Storrs.....	WABL	Fort Dodge.....	KFER
Chicago.....	WJQJ	Storrs.....	WABL	Fort Dodge.....	KFER
Chicago.....	WSAX	Storrs.....	WABL	Fort Dodge.....	KFER
Chicago Heights.....	WCWB	Storrs.....	WABL	Fort Dodge.....	KFER
Decatur.....	WBAO	Storrs.....	WABL	Fort Dodge.....	KFER
Elgin.....	WTAS	Storrs.....	WABL	Fort Dodge.....	KFER

Geographical List of Broadcasting Stations, October 24, 1924

(See Alphabetical List for details)

New Orleans...WCAG	Mississippi	Newark.....WAAM
WCBE	Coldwater....KFNG	WBS
WEBP	Hattiesburg...WDBT	WCBX
WEBS	Oxford.....WCBH	WOR
WTAF	Pascagoula...WCBG	North PlainfieldWEAM
WWL	Missouri	Paterson.....WBAN
Shreveport...KFDX	Butler.....WNAR	Salem.....WDBQ
WGAQ	Cartersville...KFPW	WOAX
Maine	Columbia.....WAAN	New Mexico
Bangor.....WABI	Fayette.....KFQK	Albuquerque...KFLR
Houlton.....WCBL	Independence..KFXK	State College..KOB
Portland.....WTAJ	Jefferson City..KFPN	New York
Skowhegan...WDBU	WOS	Buffalo.....WEBR
Maryland	Kansas City...WDAF	WGR
Baltimore....WCAO	WHB	Canton.....WCAD
WEAR	WOQ	Cazenovia...WMAC
Salisbury....WEBI	Moberly.....KFFP	Ithaca.....WEAI
Massachusetts	KFOJ	Kingston...WDBZ
Boston.....WDBR	St. Joseph....KFHD	Lockport....WMAK
WEEI	St. Louis.....KFQA	New York City.WBAY
WNAC	KFRG	WDBX
WTAT	KSD	WEAF
Bridgewater..WFBN	WCK	WEBJ
Fall River...WSAR	WEB	WEBL
WTAB	WEW	WFBH
Lowell.....WQAS	WMAV	WGBS
MedfordHillsideWGI	WRAO	WHN
New Bedford..WDAU	Montana	WJY
Rosindale...WEBY	Butte.....KFKV	WJZ
S. Dartmouth..WMAF	KFLA	WNYC
Springfield...WBZ	Havre.....KFBF	WQAG
Taunton.....WDBB	Helena.....KFNBY	WATG
Worcester....WCBT	KFSY	Richmond Hill.WAFG
WDA5	Missoula....KFLW	Rochester...WABO
WDBH	Stevensville..KFJR	WHAM
Michigan	Nbraska	Rossville....WBBR
Ann Arbor...WCBC	Belden.....KFOY	Schenectady..WGY
Berrien Springs.KFGZ	David City...KFOR	WRL
Dearborn....WVI	Fremont.....WOAE	Syracuse....WFBL
Detroit.....KOP	Hastings....KFKX	WFLA
WCK	Lincoln.....WFAV	WHRW
WWJ	Norfolk.....WJAG	Tarrytown...WRAZ
East Lansing..WKAR	Oak.....KFEQ	Troy.....WHAZ
Flint.....WEAA	Omaha.....KFCZ	Utica.....WSL
Grand Rapids..WEBK	KFOX	North Carolina
Houghton....KFMW	KFOV	Charlotte....WBT
WVAO	WAAW	North Dakota
Menominee...KFLB	WIAK	Fargo.....WDAY
Mt. Clemens..WABX	WIAL	WPAK
Petoskey....WBBP	WNAW	Grafton.....KFRH
Port Huron...WBBH	WOAW	Grand Forks..KRJM
Saginaw.....WABM	WTAU	KFJQ
Minnesota	Univ. Place...WCAJ	Ohio
Collepeville..WFBJ	Nevada	Cambridge...WEBE
Hutchinson..WFAN	Sparks.....KFFR	WAD
Minneapolis...KFDZ	New Hampshire	Cincinnati...WFBW
KFEK	Chesham....WSAU	WHAG
KFMT	Hanover....WFBK	WLW
KFOF	Laconia....WKAV	WSAI
WQAS	New Jersey	Cleveland....KDPM
WCCO	Atlantic City..WEAR	WHK
Moorhead...WPAU	Camden.....WABU	WJAX
Northfield...KFMX	WFB1	WTAM
WCAI	Gloucester City.WRAX	WBAV
St. Cloud....WFAM	Highland Park.WEBA	WCAH
St. Paul.....KFOY	Lambertville..WTAZ	WEOA
		WMAN

Geographical List of Broadcasting Stations, October 24, 1924

(See Alphabetical List for details)

Columbus.....WPAL	WFI	Orange.....KFGX
Dayton.....WABD	WGL	San Antonio...WCAR
WDBS	WIAD	WOAI
WBBT	WIP	San Benito....KFLU
Dover.....WABP	WNAI	Tyler.....WOAF
Granville....WJD	WOO	Waco.....WJAD
Hamilton.....WBO	WVAD	Wichita Falls..WKAF
WERK	Pittsburgh....KQV	Utah
Lima.....WOAC	WCAE	Ogden.....KFCP
Newark.....WBBA	WLAS	Salt Lake City.KDYL
Pomeroy....WSAZ	WBBB	KFOO
Sandusky....WABH	WBAW	KPPH
WQAF	Scranton.....WPAB	KFFT
Springfield...WNAP	State College..WPAB	Vermont
Toledo.....WABR	Wilkes-Barre..WBAX	Burlington....WCAX
WTAL	Porto Rico	Springfield...WQAE
Wooster.....WABW	San Juan.....WKAQ	Virginia
Yellow Springs.WRAV	Rhode Island	Fort Monroe...WNAW
Youngstown...WDBF	Cranston.....WKAP	Norfolk.....WBBW
Oklahoma	WKBFB	WTAR
Bristow.....KFJK	Providence....WCBR	Richmond.....WBBL
Chickasha...KFGD	WEAN	Roanoke.....WDBJ
Muskogee...KFQL	WJAR	Washington
Norman.....WNAD	WKAD	Bellingham...KDZR
Oklahoma City.KFJF	WSAD	Everett.....KFLB
KFQJ	South Carolina	Lacey.....KGY
KFQR	Charleston...WBBY	North Bend...KFWW
WKY	Clemson College.WSAC	Olympia.....KFPF
Oklmulgee...WPAC	South Dakota	Pullman.....KFAE
Tulsa.....WLAL	Brookings...KFDY	KDZE
Oregon	Rapid City...WCAT	KFHR
Arlington....KFGI	Vermillion...WEAJ	KFJC
Astoria.....KFJI	Yankton.....WNAK	KFOA
Corvallis...KFDJ	Tennessee	KFOK
Hood River...KQP	Bemis.....WGBI	KHQ
Marshfield...KFOF	Columbia....WDBW	KJR
Medford....KFAV	Lawrenceburg.WOAN	KTW
Pendleton...KFFE	Memphis.....WCOB	Spokane.....KFOI
Portland....KDYQ	WMC	KFPY
KFEC	Nashville....WCBQ	Tacoma.....KFBG
KFIF	WBBX	KGB
KFQN	Tullahoma...WCBV	KMO
KGG	Texas	Walla Walla...KFCF
KGW	Abilene.....WQAG	Yakima.....KFIQ
Pennsylvania	Amarillo....WDAQ	West Virginia
Allentown...WCBA	WQAC	Charleston...WPAZ
Altoona....WFBG	WQAG	Clarksburg...WHAH
Arnold.....WCBU	KFQM	Martinsburg..WDBD
Buck Hill Falls.WCBy	Beeville....KFRB	Wisconsin
Butler.....WBR	College Station.WTAA	Beloit.....WBEW
EastPittsburgh.KDKA	Dallas.....WFAA	Fond du Lac...KFIZ
Erie.....WOAV	WRR	Kenosha....WOAR
Grove City...WSAJ	Denison.....KFQT	La Crosse...WABN
Harrisburg...WABB	Dublin.....KPEL	Madison.....WHA
WBAK	El Paso.....WDAH	Milwaukee...WCAV
Haverford...WABQ	Fort Worth...KFJZ	WHD
Johnstown...WBBV	KFOB	WSE
WTFAC	Galveston...KFLX	WQAC
WTFAC	KFOQ	Osseo.....WTAQ
Lancaster....WDBC	W1AC	St. Croix Falls.WRAL
WGAL	Greenville...KPFM	Stevens Point..WBLB
McKeesport...WIK	Houston.....KFCV	WLB
Parkesburg...WQAA	WCAK	Superior.....WDBP
Philadelphia..WABY	WEAY	WBC
WBBT	WEV	Wyoming
WCAU	WSAV	Laramie.....KFBU
WDAR		

Geographical List of Broadcasting Stations, October 24, 1924

(See Alphabetical List for details)

Alberta	CFCT	CHNC
Calgary.....	CFAC	CJBC
CFCN	CHCE	CJCD
CFHC	Manitoba	CJCN
CHBC	Winnipeg.....	CJSC
CHCM	.....	CKCE
CJCK	CNRW	CNRT
CKCX	Ontario	
CKLC	Hamilton.....	CFCU
CNRC	.....	CHCS
Edmonton....	CKOC	Quebec
CFCK	Iroquois Falls.....	Monti Joli.....
CJCA	Kingston.....	Montreal.....
CNRE	.....	CHYC
British Columbia	Kitchener.....	CKAC
Nanaimo.....	London.....	CNRM
N. Westminster	.....	Quebec.....
Vancouver.....	CFCL	CKCI
CFCQ	Ottawa.....	Saskatchewan
CFCY	.....	Saskatoon.....
CJCE	CKCO	CFQC
CKCD	CNRO	CHUC
CKFC	Sudbury.....	CNRS
Victoria.....	Thorold.....	Regina.....
CFCL	Toronto.....	CKCK
		CNRR

QUARTERLY SERVICE

For those whose interest in Radiofax is limited to the data on broadcasting stations we have provided a special subscription plan.

A completely revised list similar to the one in this issue will be published every three months. A charge of \$1.00 is made for this quarterly service.

This offer, we believe, will give the non-technical radio enthusiast an opportunity to share with our present readers the satisfaction of having a really dependable list of broadcasting stations. The cost of the service is within reach of all.

Broadcasting Stations by Frequency

Kilo-cycle	Call	Meters	Location	Kilo-cycle	Call	Meters	Location
550	KSD	545	St. Louis, Mo.	833	KLS	360	Oakland, Calif.
560	KYW	535	Chicago, Ill.	833	KMO	360	Tacoma, Wash.
570	WHO	526	Des Moines, Iowa	833	KOB	360	State College, N.M.
570	WNYC	526	New York, N. Y.	833	KQP	360	Flood River, Ore.
570	WQAW	526	Omaha, Nebr.	833	KQW	360	San Jose, Calif.
580	WGX	517	Detroit, Mich.	833	KTW	360	Seattle, Wash.
580	WVJ	517	Detroit, Mich.	833	KUO	360	San Francisco Cal.
590	KLK	508	Oakland, Calif.	833	KWG	360	Stockton, Calif.
590	WTP	508	Philadelphia, Pa.	833	KWH	360	Los Angeles, Calif.
590	WOO	508	Philadelphia, Pa.	833	KZM	360	Oakland, Calif.
600	KGW	500	Memphis, Tenn.	833	WAAC	360	New Orleans, La.
610	KRW	492	Portland, Ore.	833	WAAD	360	Cincinnati, Ohio
610	WBAV	492	New York, N. Y.	833	WBS	360	Newark, N. J.
610	WBAF	492	New York, N. Y.	833	WBT	360	Charlotte, N. C.
620	WFAA	484	Iowa City, Iowa	833	WGAL	360	Northfield, Minn.
620	WOC	484	Davenport, Iowa	833	WGAO	360	Baltimore, Md.
630	WBAP	476	Fort Worth, Tex.	833	WGAR	360	San Antonio, Tex.
630	WFAA	476	Dallas, Tex.	833	WGAV	360	Little Rock, Ark.
640	KFI	460	Los Angeles, Calif.	833	WGAX	360	Burlington, Vt.
640	WCAP	469	Washington, D.C.	833	WCK	360	St. Louis, Mo.
640	WRC	469	Washington, D.C.	833	WDAE	360	Tampa, Fla.
640	WCAE	461	Pittsburgh, Pa.	833	WDA5	360	Worcester, Mass.
660	KFOA	454	Seattle, Wash.	833	WDAU	360	New Bedford, Mass.
660	WJZ	454	New York, N. Y.	833	WFAP	360	Mobile, Ala.
670	WMAQ	448	Chicago, Ill.	833	WFAY	360	Houston, Tex.
670	WQJ	448	Chicago, Ill.	833	WFAM	360	St. Cloud, Minn.
680	WOS	441	Jefferson City, Mo.	833	WGAN	360	Pensacola, Fla.
700	WSB	428	Atlanta, Ga.	833	WGI	360	Medford Hills, Mass.
710	KPO	422	San Francisco Cal.	833	WGL	360	Philadelphia, Pa.
710	WBAV	423	Columbus, Ohio	833	WJAV	360	Wilmington, Del.
710	WLW	423	Cincinnati, Ohio	833	WHN	360	New York, N. Y.
720	WCCO	417	Minneapolis Minn	833	WIAC	360	Galveston, Tex.
730	WDAF	411	Kansas City, Mo.	833	WJAD	360	Waco, Tex.
730	WHB	411	Kansas City, Mo.	833	WJAR	360	Providence, R. I.
740	WJY	405	New York, N. Y.	833	WKAF	360	Wichita Falls, Tex.
740	WOR	405	Newark, N. J.	833	WKAQ	360	Cranston, R. I.
750	WBAK	400	Harrisburg, Pa.	833	WKAP	360	San Juan, P. R.
750	WHAS	400	Louisville, Ky.	833	WKY	360	Oklahoma City, Okla.
760	KHJ	395	Los Angeles, Calif.	833	WLAL	360	Tulsa, Okla.
760	WDAR	395	Philadelphia, Pa.	833	WMAF	360	South Dartmouth, Mass.
760	WFI	395	Philadelphia, Pa.	833	WNAT	360	Philadelphia, Pa.
770	WJAX	390	Cleveland, Ohio	833	WNAW	360	Ft. Monroe, Va.
770	WTAM	389	Cleveland, Ohio	833	WQAF	360	Tyler, Tex.
780	WOAI	384	San Antonio, Tex.	833	WOAN	360	Lawrenceburg, Tenn.
790	WGY	380	Schenectady, N.Y.	833	WOI	360	Ames, Iowa
790	WHAZ	380	Troy, N. Y.	833	WQJ	360	Kansas City, Mo.
810	WEBH	370	Chicago, Ill.	833	WPAC	360	Okmulgee, Okla.
810	WGN	370	Chicago, Ill.	833	WQAA	360	Parkesburg, Pa.
833	KDYL	360	Salt Lake C., Utah	833	WQAO	360	New York, N. Y.
833	KDYQ	360	Portland, Ore.	833	WQAO	360	Abilene, Tex.
833	KFAD	360	Phoenix, Ariz.	833	WRAO	360	St. Louis, Mo.
833	KFAN	360	Moosew, Idaho	833	WRK	360	Hamilton, Ohio.
833	KFBF	360	Havre, Mont.	833	WRL	360	Schenectady, N.Y.
833	KFBG	360	Tacoma, Wash.	833	WRM	360	Urbana, Ill.
833	KFCF	360	Walla Walla, Wash.	833	WRR	360	Dallas, Tex.
833	KFCV	360	Orden, Utah	833	WSAC	360	Clemson College, S. C.
833	KFCV	360	Houston, Tex.	833	WSAV	360	Houston, Tex.
833	KFDJ	360	Corvallis, Ore.	833	WSY	360	Birmingham, Ala.
833	KFDX	360	Shreveport, La.	833	WWAD	360	Philadelphia, Pa.
833	KFFE	360	Pendleton, Ore.	870	WCBD	345	Zion, Ill.
833	KFHJ	360	Santa Barbara Cal	870	WLS	345	Chicago, Ill.
833	KFIF	360	Portland, Ore.	890	KNX	337	Los Angeles, Calif.
833	KGG	360	Portland, Ore.				
833	KGU	360	Honolulu, Hawaii				
833	KHQ	360	Seattle, Wash.				
833	KJQ	360	Stockton, Calif.				
833	KJS	360	Los Angeles, Calif.				

1220	KFQS	246	Manitou, Colo.	1270	WTAJ	236	Portland, Me.
1220	WBBH	246	Port Huron, Mich.	1280	KFGL	234	Arlington, Ore.
1220	WBBP	246	Petoskey, Mich.	1280	KFKJ	234	Bristow, Okla.
1220	WCBR	246	Providence, R. I.	1280	KFKZ	234	Colo.Sprgs., Colo.
1220	WDBF	246	Youngstown, Ohio	1280	KFLW	234	Missoula, Mont.
1220	WEDB	246	Anderson, Ind.	1280	KFNV	234	Santa Rosa, Calif.
1220	WTAT	246	Boston, Mass.	1280	KFOL	234	Marengo, Iowa
1220	WSOE	246	Milwaukee, Wis.	1280	KFON	234	Long Beach, Calif.
1230	KDPT	244	San Diego, Calif.	1280	KFQJ	234	Culver City, Calif.
1230	WABN	244	La Crosse, Wis.	1280	KFQU	234	Holy City, Calif.
1230	WBAN	244	Paterson, N. J.	1280	KFSG	234	Los Angeles, Calif.
1230	WCBJ	244	Jennings, La.	1280	WABW	234	Wooster, Ohio
1230	WDAY	244	Fargo, N. Dak.	1280	WBBT	234	Philadelphia, Pa.
1230	WNAK	244	Yankton, S. Dak.	1280	WDBQ	234	Salem, N. J.
1230	WRAM	244	Galesburg, Ill.	1280	WDM	234	Washington, D.C.
1230	WVAO	244	Houghton, Mich.	1280	WFBF	234	Syracuse, N. Y.
1240	KFBE	242	San Luis Obispo, Calif.	1280	WIK	234	McKeesport, Pa.
				1280	WLAH	234	Syracuse, N. Y.
1240	KFIQ	242	Yakima, Wash.	1280	WQAC	234	Amarillo, Tex.
1240	KFPH	242	Lake Lake C. Utah	1290	KFOZ	232	Fort Smith, Ark.
1240	KFFM	242	Greenville, Tex.	1290	KFOX	232	Seattle, Wash.
1240	KFPN	242	Jefferson City, Mo.	1290	WCBX	232	Newark, N. J.
1240	KFPX	242	Pine Bluff, Ark.	1290	WDBX	232	New York, N. Y.
1240	KPRF	242	Alexandria, La.	1290	WDBZ	232	Kingston, N. Y.
1240	WABY	242	Philadelphia, Pa.	1290	WEBB	232	Highland Prk., N.J.
1240	WCBH	242	Oxford, Miss.	1300	KFDZ	231	Minneapolis, Minn.
1240	WBCB	242	Superior, Wis.	1300	KFER	231	Fort Dodge, Iowa
1240	WBEI	242	Salisbury, Md.	1300	KFMT	231	Minneapolis, Minn.
1240	WOAV	242	Erie, Pa.	1300	KFNZ	231	Burlingame, Calif.
1240	WRAV	242	Yellow Springs, O.	1300	KFOT	231	Wichita, Kans.
1240	WTAP	242	Cambridge, Ill.	1300	KFPR	231	Los Angeles, Calif.
1240	WWAE	242	Joliet, Ill.	1300	KFPO	231	Denver, Colo.
1240	WTAU	242	Tecumseh, Neb.	1300	KFQH	231	Hillsburgh, Calif.
1250	KDZB	240	Bakersfield, Calif.	1300	KFQV	231	Nebraska (Port.)
1250	KFFB	240	Boise, Idaho	1300	WLAX	231	Greencastle, Ind.
1250	KHIX	240	Independence, Mo.	1300	WNAR	231	Butler, Mo.
1250	KFLX	240	Galveston, Tex.	1300	WTAX	231	Streator, Ill.
1250	KFNL	240	Paso Robles, Calif.	1310	KFLV	229	Rockford, Ill.
1250	KFOF	240	Marshfield, Ore.	1310	WDBB	229	Taunton, Mass.
1250	KFOQ	240	Galveston, Tex.	1310	WDBJ	229	Roanoke, Va.
1250	KFQZ	240	Hollywood, Calif.	1310	WJAB	229	Lincoln, Neb.
1250	WABH	240	Sandusky, Ohio	1310	WJD	229	Granville, Ohio
1250	WABL	240	Bangor, Me.	1310	WOAR	229	Kenosha, Wis.
1250	WBBA	240	Newark, Ohio	1310	WSAU	229	Chesham, N. H.
1250	WCAT	240	Rapid City, S. Dak.	1320	KFCQ	227	Taft, Calif.
1250	WCB1	240	Bemis, Tenn.	1320	WBBZ	227	Indianapolis, Ind.
1250	WDBO	240	Winter Park, Fla.	1330	KFDL	225	Denver, Colo.
1250	WEBR	240	Buffalo, N. Y.	1330	KFRF	225	Sparks, Nev.
1250	WFBW	240	Eureka, Ill.	1330	KFGQ	225	Boone, Iowa
1250	WKAD	240	E. Providence, R.I.	1330	KFHD	225	St. Joseph, Mo.
1250	WOAX	240	Trenton, N. J.	1330	KFIU	225	Juneau, Alaska
1250	WQAF	240	Sandusky, Ohio	1330	KFOR	225	David City, Nebr.
1260	KFCB	238	Phoenix, Ariz.	1330	KFOY	225	St. Paul, Minn.
1260	KFPG	238	Los Angeles, Calif.	1330	KFOQ	225	Los Angeles, Calif.
1260	WBD	238	Reading, Pa.	1330	WABU	225	Camden, N. J.
1260	WCBT	238	Worcester, Mass.	1330	WCBW	225	Macon, Ga.
1260	WHAH	238	Clarksburg, W. Va.	1330	WDBI	225	St. Petersburg, Fla.
1260	WRAW	238	Reading, Pa.	1330	WEBL	225	U. S. (Portable)
1270	KFCL	236	Los Angeles, Calif.	1330	WEBQ	225	Harrisburg, Ill.
1270	KFLU	236	San Benito, Tex.	1330	WEBY	225	Rosindale, Mass.
1270	KFOC	236	Whittier, Calif.	1330	WFBN	225	Bridgewater, Mass.
1270	KPPP	236	Olympia, Wash.	1330	WKAN	225	Montgomery, Ala.
1270	KFPV	236	San Francisco, Calif.	1340	KFBL	224	Everett, Wash.
1270	KFQJ	236	Oklahoma C. Okla.	1340	KFOD	224	Wallace, Idaho
1270	KFQK	236	Fayette, Mo.	1340	KFOE	224	Colo.Sprgs., Colo.
1270	KFRG	236	St. Louis, Mo.	1340	KFOF	224	Minneapolis, Minn.
1270	WCBQ	236	Nashville, Tenn.	1340	KFOQ	224	Iowa City, Iowa
1270	WDBT	236	Hattiesburg, Miss.	1340	KFRI	224	Denver, Colo.
1270	WFBI	236	Camden, N. J.	1340	WBBU	224	Monmouth, Ill.
1270	WFBJ	236	Collegeville, Minn.	1340	WRAF	224	Laporte, Ind.
1270	WPAR	236	Beloit, Kans.	1350	WBBW	222	Norfolk, Va.
1270	WRAN	236	Waterloo, Iowa	1350	WHAG	222	Cincinnati, Ohio

FANSTEEL
Balkite
PATENTS
APPLIED FOR
Battery Charger

U. S. PATENT 1,425,582



The Fansteel BALKITE Battery Charger, Model "H"

Characteristics

The Fansteel "Balkite" Battery Charger is designed to keep a six-volt storage battery charged, with a minimum of care and attention. It is automatic in operation, and once the leads from the charger are attached correctly to the battery, they may be forgotten and the charging started by turning on the electric light switch.

It is noiseless in operation.

It has no moving parts to adjust or wear out.

An ordinary four-ampere fuse is the only part which might possibly require replacement.

Its action as a rectifier of alternating current is independent of the frequency of the line, and it cannot therefore get out of adjustment and reverse its effect.

It does not require current from the storage battery to start it, and it will therefore charge a completely dead battery.

It can be operated while the radio set is in use without danger of burning out tubes. Without added attachments this charger may also be used to charge "B" storage batteries of the lead type in multiples of six cells.

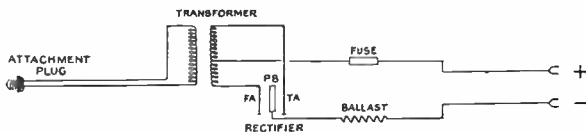
Charging rate

The "Balkite" charger delivers from two to three amperes to the battery, the rate depending on the condition of the battery at the time. As the battery gains energy the charging rate decreases. This effect is called a taper charge, and is recommended by battery engineers as prolonging the life of the battery.

Construction

Two Balkite Electrodes—the electrodes which permit alternating current to pass in one direction and not in the other—and a lead electrode are housed in a cell containing electrolyte. A step-down transformer, having separate primary and secondary windings, delivers the alternating current to the cell at the correct voltage. These are housed in a metal housing and are thoroughly shielded.

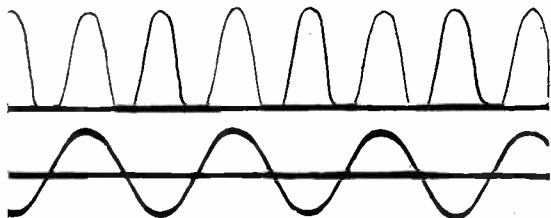
A schematic diagram of the charger is given below:



How the charger works

Alternating current, the current usually available for household use, carries impulses in both directions, and therefore would, if connected directly to a storage battery, take energy out of the battery as fast as it puts it in. "Balkite" allows impulses to go through it in one direction only and will produce an unidirectional current, suitable for charging. By using two electrodes and a split secondary in the transformer both halves of the alternating current are used.

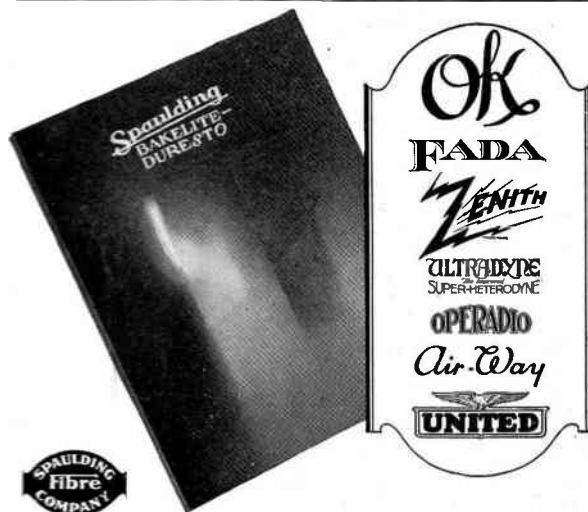
The operation is shown in the following oscillogram:



Constants of the Model "H" Balkite Charger are: Primary Watts 60. Primary Volts 115. Primary Amperes 0.6. Cycles 60. Power Factor 85%. No load loss 5 watts. Size of fuse (secondary) 4 amperes. Voltage of Battery to be charged 6. Charging rate 2.5 amperes. Secondary Volts 14.5-29. Secondary Amperes A.C.3.2. Watt Efficiency 25%—30%. Rectification Curve: *Both Halves*.

The "Balkite" charger is offered by all leading jobbers and dealers. Retail Price: \$19.50. West of Rockies, \$20.00. In Canada, \$27.50.

Fansteel Products Company, Inc.
North Chicago, Illinois



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THE unqualified endorsement of these leading radio manufacturers is in itself the greatest recommendation of Spaulding Bakelite-Duresto quality.

These men know bakelite. They know quality depends solely upon manufacture. They know by actual experience that Spaulding Bakelite-Duresto panels possess high dielectric properties and great strength; that it drills, saws, engraves without chipping; that it will not warp; that it retains an everlasting lustre.

For efficiency and lasting beauty, you should use Bakelite-Duresto. Your dealer can furnish standard sizes, individually packed, special sizes to order. Look for Bakelite-Duresto panels on the sets you buy.

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Inside of the fine fabrikoid binder, you will find six sections divided with linen tabs. Thus you get six books in one—an account book, a memo-book, a diary, an address book, general information, data, and special forms.

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