

Recommendations Of the National Radio Committee

THE second National Radio Conference announced that its recommendations to the Secretary of Commerce mark a new era for the radio public. It recommended that the interference experience by broadcasters and listeners be relieved by the opening up of a new wide band of waves by the Government and a new assignment of individual wave-lengths to broadcasting stations. This is made possible by the opening up of what was previously government reserved waves and the shifting of certain ship waves out of the broadcasting wave bands. The Department of Commerce, acting under its present authority, will be able to establish and enforce the new regulations, and thus bring order in the radio world.

Boiled down, the important recommendations of the conference are these:

Previously all broadcasting was concentrated on three wave lengths, 360, 400 and 485 meters. Now a new field extending from 222 meters to 545 meters can be created for the purpose. Within that field stations can be assigned individual wave lengths and divided into two classes. The higher power Class "A" stations corresponding to the present Class "B" stations can use wave-lengths

between 288 meters and 545 meters, while lower powered stations (new class "B" stations) can use the waves from 222 to 286.

This will enable the higher power stations distributed in 50 localities and comprehensively covering the United States, to be within the reach of every listener. Suitable wave-lengths are provided in the recommendations for the more than 500 existing lower power stations.

The report urges that the field of amateur activity be extended by allotting a band extending from 150 meters to 222 meters in place of the waves up to 200 meters now used. The band from 200 to 222 meters can be reserved for high grade continuous wave telegraph transmitting stations operating under special license. Technical and training school licenses can also occupy this band. The report confines spark amateur radio telegraph stations to the band 175 meters to 200 meters.

It also includes the provision that ships using 450 meter waves keep silent between 7 and 11 P. M. and, as soon as possible, readjust their equipment for transmission on wave-lengths above 600 meters.

Provision is made in the recommendations

for a new field of ship telephone service, enabling persons on shore to talk to those aboard ship. This can be carried out on waves far above broadcasting waves, so that no interference can result.

The reading of telegrams or letters by broadcasting stations should be permitted, says the report, so long as the signer is not addressed in person and so long as the text matter is of general interest.

Another recommendation is that simultaneous rebroadcasting be permitted as a service only on a broadcasting wave-length, and with the authorization of the original broadcaster and of the Department of Commerce.

The new regulations recommended are based on a plan submitted by the radio inspectors of the Department of Commerce, and include elements from other plans submitted by the Radio Section of the Associated Manufacturers of Electrical Supplies, The National Radio Chamber of Commerce, The Institute of Radio Engineers and the American Newspaper broadcasting stations and several other groups.

It is the unanimous opinion of the con-
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Recommendations of the National Radio Committee

(Continued from page 2079)

ference that the Secretary of Commerce in licensing stations has the authority under the present law to regulate hours and wavelengths of operation of stations, and to revoke or withhold licenses of stations when such action is necessary to prevent interference detrimental to the public good.

The committee also urged that the fullest co-operation be given by those who operate broadcasting stations and by the public with the Department of Commerce in the co-operative adjustment of local broadcasting problems in order to realize the fullest possibilities of the recommendations outlined.

The following is the membership of the Radio Committee:

Maj.-Gen. George O. Squier, War Department.

Com. D. C. Bingham, U. S. N., Navy Department.

W. A. Wheeler, Department of Agriculture.

John W. Sutherin, Post Office Department.

F. P. Guthrie, United States Shipping Board.

Edwin H. Armstrong, Columbia University, New York.

Dr. Alfred N. Goldsmith, Secretary, Institute of Radio Engineers.

Prof. L. A. Hazeltine, Stevens Institute of Technology.

John V. L. Hogan, Consulting Radio Engineer, New York.

C. B. Cooper, C. B. Cooper Company, New York.

Hiram Percy Maxim, President, American Radio Relay League.

Prof. C. M. Jansky, University of Minnesota.

A. H. Griswold, American Telegraph and Telephone Company.

Leo Fitzpatrick, Radio Editor, Kansas City Star.

D. B. Carson, Department of Commerce, Bureau of Navigation.

W. D. Terrell, Department of Commerce, Bureau of Navigation.

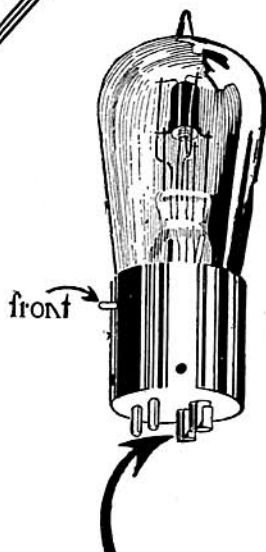
J. H. Dellinger, Department of Commerce, Bureau of Standards.

L. E. Whittemore, Department of Commerce, Bureau of Standards.

L. J. Heath, Treasury Department.

RECOMMENDED WAVE ALLOCATIONS

Wave Frequency, Kilocycles per second	Wave Length, Meters	Service
Above 2300	Below 130	Reserved.
2300	130	Government, C.W., exclusive.
2300	130	Reserved.
2100	143	
2100	143	Government, C.W., exclusive.
2100	143	Reserved.
2000	150	
2000	150	Amateur, C.W., I.C.W., Ph., exclusive.
1700	176	
1700	176	Special Amateur, C.W., I.C.W., Ph., Spk., exclusive.
1500	200	
1500	200	Special amateur, and technical training schools, C.W., exclusive.
1350	222	



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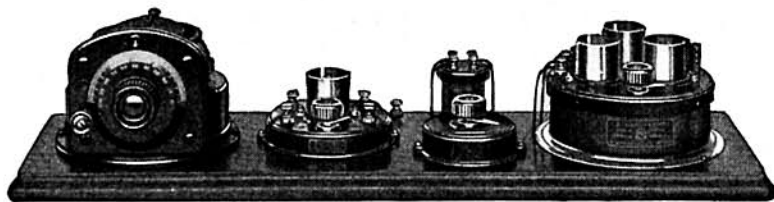
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Western Electric Type 10B		55.00
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Dicograph, 3000 ohms	12.00	5.95
Baldwin Type C, Nath. Baldwin	12.00	9.75
Baldwin Single Phone Type C	6.00	4.45
N & K, 6000 ohms, made in Germany. The best phones made	.....	16.00	6.50
TRANSFORMERS		List Price	Our Price
Thordarson Audio Frequency	.....	\$4.50	\$3.25
WD-12 Audio Frequency	.....	5.00	4.00
Acme Type A28	.....	5.00	4.25
VARIABLE CONDENSERS		List Price	Our Price
Franco, 43 Plate, Variable, with Vernier	.....	\$7.70	\$4.45
43 Plate, Moulded Ends, .0005	.....	3.00	1.50
43 Plate, Moulded Ends, .001	.....	4.00	2.00
Franco, 23 Plate, Variable, with Vernier	.....	6.60	3.95
FILAMENT RHEOSTATS		List Price	Our Price
Moulded, Fada Type, 6 ohms, 1 1/2 Amperes	.....	\$1.00	\$0.40
Klosner, Vernier	.....	1.50	.75
Ameco Potentiometers, 360 ohms Resistance	.....	1.75	1.00
JACKS		List Price	Our Price
Fireco Open Circuit	.....	\$0.70	\$0.35
Fireco Closed Circuit	.....	.85	.45
PLUGS		List Price	Our Price
Flat Plugs	.....	\$1.00	\$0.50
Round, Bulldog Grip	.....	1.25	.60
DIALS AND KNOBS		List Price	Our Price
3" Composition Dial and Knob, 1/4" Brass Bushing	.....	\$0.75	\$0.30
3 1/2" Unbreakable Dial and Knob, 1/4" Hole	.....	1.00	.50
4" Composition Dial and Knob, 1/4" Hole	.....	1.25	.50
3" Composition Dial, and Knob, 1/4" Hole, Tapered Knob	.....	1.00	.40
V. T. SOCKETS		List Price	Our Price
Single Sockets, Brass Tubing	.....	\$1.00	\$0.40
Double Sockets, Brass Tubing	.....	2.00	.80
Triple Sockets, Brass Tubing	.....	3.00	1.35
Single Sockets, Red Moulded Condensite	.....	1.00	.55
WD-11 Sockets, Extra Fine Quality	.....	1.00	.35

VARIOMETERS		List Price	Our Price
Fisher Mahogany	.....	\$5.00	\$2.50
Franco Mahogany	.....	5.00	2.50
Pathe Moulded	.....	6.00	3.50
Eagle, Red Moulded Bakelite	.....	8.00	5.50
VARIOCOUPERS		List Price	Our Price
Franco Mahogany, Silk Wound, Fibre Tubing	.....	\$5.00	\$2.25
Fisher Mahogany	.....	5.00	2.50
Fisher, 180 Degrees	.....	5.00	2.50
Pathe, Moulded, Silk Wound	.....	6.00	3.50
Eagle, Moulded, Red Bakelite, the Best Made	.....	8.50	5.75
Franco, 180 Degrees, Bakelite, Silk Wound	.....	5.00	2.75
BATTERIES		List Price	Our Price
Exide "A" Storage Battery, 6 V., 80 Am-pere Hours, Type 3 LXL-9	.....	\$23.10	\$19.00
Exide "A" Storage Battery, 6 V., 120 Am-pere Hours, Type 3 LXL-13	.....	31.50	25.00
Bright Star "B" Battery, 22 1/2 V.	.....	1.75	1.10
Bright Star "B" Battery, 5 Positive Terminals, 22 1/2 V., Variable	.....	3.00	2.00
Bright Star "B" Battery, 7 Positive Terminals, 45 V., Variable	.....	5.00	3.50
MISCELLANEOUS		List Price	Our Price
Homecharger, DeLuxe Model, for Alternating or Direct Current	.....	\$18.50	\$14.95
Post Electric Soldering Iron	.....	6.00	4.75
PANELS (3/16 inch thick)		List Price	Our Price
Hard Rubber, Unbreakable, 7 x 10, Now	.....	\$0.85	1.50
Hard Rubber, Unbreakable, 7 x 18, Now	.....	1.50	1.95
Hard Rubber, Unbreakable, 7 x 21, Now	.....	1.95	1.25
Bakelite, 7 x 10	.....	1.25	2.25
Bakelite, 7 x 18	.....	2.25	3.25
Bakelite, 7 x 24	.....	
RECEIVING SETS		List Price	Our Price
\$50.00 Tuska Regenerative Armstrong Circuit One Tube Set, Special	\$22.50	
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1350	222	Class B broadcasting, Ph.,
1050	286	non-exclusive. (See Note 1.)
1050	286	Reserved.
1040	288	
1040	288	Class A broadcasting, Ph.,
1000	300	exclusive. (See Note 2.)
1000	300	Marine, C.W., I.C.W., Spk.,
		non-exclusive. (See Note 3.)
1000	300	Class A broadcasting, Ph., ex-
667	450	clusive. (See Note 2.)
667	450	Marine, C.W., I.C.W., Spk.,
		exclusive. (See Note 4.)
667	450	Class A broadcasting, Ph.,
550	545	exclusive. (See Note 2.)
550	545	Marine and aircraft, C.W.,
500	600	I.C.W., Spk., exclusive.
500	600	Marine and aircraft, C.W.,
		I.C.W., excl. (See Note 3.)
500	600	Marine and aircraft, C.W.,
445	674	I.C.W., Spk., exclusive.
445	674	Government, C.W., non-excl.
445	674	Marine and aircraft, C.W.,
375	800	I.C.W., Spk., exclusive.
375	800	Radio compass, C.W., I.C.W.,
		Spk., exclusive.
375	800	Marine, Ph., exclusive.
315	952	
315	952	Government, C.W., I.C.W.,
		Spk., exclusive.
315	952	
300	1000	Reserved.
300	1000	Radio beacons, C.W., I.C.W.,
		Spk., exclusive.
300	1000	
285	1053	Reserved.
285	1053	
275	1091	Marine, Ph., exclusive.
275	1091	
275	1091	Government, C.W., I.C.W.,
		non-exclusive.
275	1091	Marine, Ph., exclusive.
250	1200	
250	1200	Government, C.W., I.C.W.,
		non-exclusive.
250	1200	
235	1277	Marine, Ph., exclusive.
235	1277	
230	1304	University, college, and ex-
		perimental, C.W., I.C.W.,
		exclusive.
230	1304	Government, C.W., I.C.W.,
190	1579	Spk., exclusive.
		Marine and point-to-point,
190	1579	non-government, C.W.,
		I.C.W., Spk., exclusive.
120	2500	Government, C.W., I.C.W.,
95	3158	Spk., exclusive.

NOTES

Note 1.—Not more than six C.W. amateur stations to be licensed to use wave frequencies above 1050 kc/s (wave-lengths below 286 meters), for communication across natural barriers.

Note 2.—A class A broadcasting station is a station of sufficient power to serve an extensive territory. Fifty territorial wave frequencies approximately 10 kc/s apart are to be assigned by Department of Commerce to local areas throughout the United States without duplication. The ten such areas within each of five national zones are to have wave frequencies separated by approximately 50 kc/s.

Note 3.—The 1000 and 500 kc/s (300 and 600 meter) waves are for calling and distress purposes, with a minimum of traffic.

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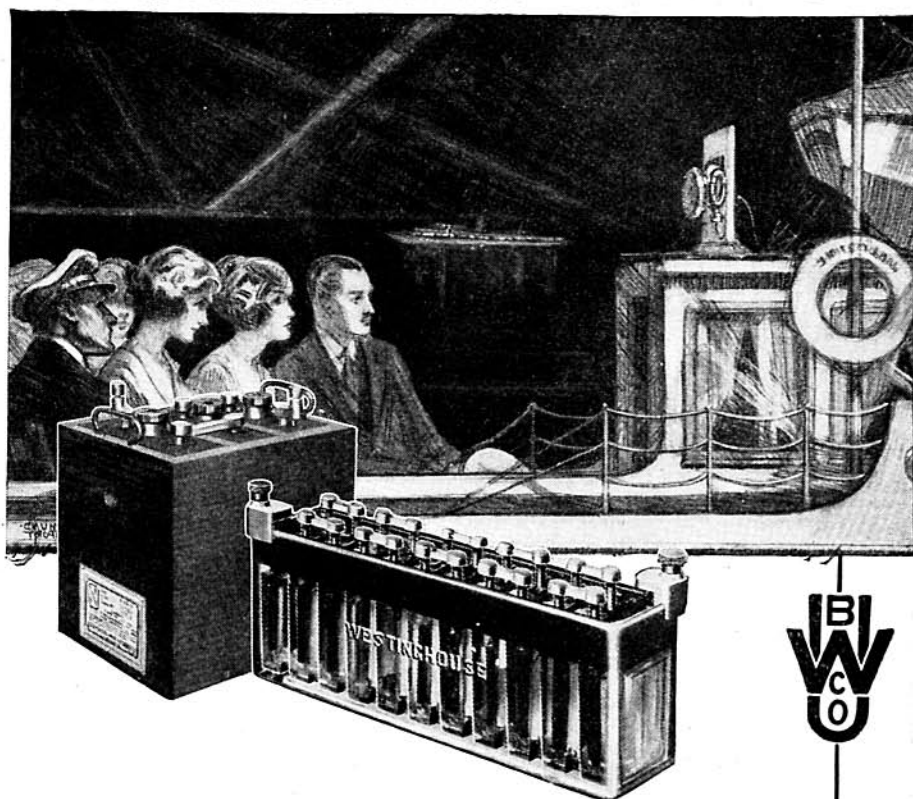
EXPERIMENTER PUBLISHING CO.
53 Park Place New York City

Note 4.—Mobile service on the 667 kc/s (450 meter) wave is to be stopped between 7 and 11 p. m. local standard time, and to be transferred in so far and as soon as practicable, to wave frequencies between 500 and 375 kc/s (wave-lengths between 600 and 800 meters).

Complete List of Broadcasting Stations in the United States

(Continued from page 2096)

Call	Name	City and State
WMAF	Round Hills Radio Corp.,	Dartmouth, Mass.
WMAH	Tucker Electric Co.,	Liberal, Kans.
WMAH	General Supply Co.,	Lincoln, Nebr.
†WMAJ	Drovers Telegram Co.,	Kansas City, Mo.
WMAK	Norton Laboratories.,	Lockport, N. Y.
WMAK	Trenton Hardware Co.,	Trenton, N. J.
†WMAK	Beaumont Radio Equipment Co.,	Beaumont, Texas
WMAN	Broad St. Baptist Church,	Columbus, Ohio
WMAF	Utility Battery Service.,	Easton, Pa.
WMAQ	The Fair Corp. & Chicago Daily News	Chicago, Ill.
WMAR	Waterloo Electrical Supply Co.,	Waterloo, Iowa
†WMAT	Paramount Radio Corp.,	Duluth, Minn.
†WMAV	Alabama Polytechnic Inst.,	Auburn, Ala.
WMAW	Wahpeton Electric Co.,	Wahpeton, N. Dak.
WMAX	K & K Radio Supply Co.,	Ann Arbor, Mich.
WMAZ	Kingshighway Presbyterian Church,	St. Louis, Mo.
WMAZ	Mercer University.....	Macon, Ga.
WMB	Auburn Electrical Co.,	Auburn, Me.
†WMIH	Precision Equipment Co.,	Cincinnati, Ohio
WMU	Doubleday-Hill Electric Co.,	Washington, D. C.
WNAB	Park City Daily News,	Bowling Green, Ky.
WNAC	Shepard Stores.....	Boston, Mass.
WNAD	Oklahoma Radio Engineering Co.,	Norman, Okla.
†WNAF	Enid Radio Distributing Co.,	Enid, Okla.
WNAG	Rathert Radio & Electric Shop,	Cresco, Iowa
WNAH	Wilkes-Barre Radio Repair Shop,	Wilkes-Barre, Pa.
WNAJ	Benson Co.....	Chicago, Ill.
WNAK	Manhattan Radio Supply Co.,	Manhattan, Kan.
WNAL	R. J. Rockwell.....	Omaha, Nebr.
WNAM	Ideal Apparatus Co.,	Evansville, Ind.
WNAN	Syracuse Radio Telephone Co.,	Syracuse, N. Y.
WNAP	Wittenberg College.,	Springfield, Ohio
WNAQ	Charleston Radio Electric Co.,	Charleston, S. C.
WNAR	C. C. Rhodes.....	Butler, Mo.
WNAS	Texas Radio Corp. & Austin Statesman	Austin, Tex.
WNAT	Lennig Bros. Co.,	Philadelphia, Pa.
WNAV	Peoples Telephone & Telegraph Co.,	Knoxville, Tenn.
WNAW	Peninsular Radio Club,	Fort Monroe, Va.
WNAX	Dakota Radio Apparatus Co.,	Yankton, S. D.
WNAY	Ship Owner's Radio Service,	Baltimore, Md.
WNJ	Shotton Radio Mfg. Co., Inc.,	Albany, N. Y.
WNO	Wireless Telephone Co. of Hudson County, N. J.....	Jersey City, N. J.
WOAA	Dr. Walter Hardy....	Ardmore, Okla.
WOAB	Valley Radio....	Grand Forks, N. D.
WOAC	Maus Radio Co.....	Lima, Ohio
WOAD	Friday Battery & Elec. Co.,	Sigourney, Iowa
WOAE	Midland College....	Fremont, Nebr.
WOAF	Tyler Commercial College,	Tyler, Texas
WOAG	Apollo Theatre.....	Belvedere, Ill.
WOAH	Palmetto Radio Corp.,	Charleston, S. C.
WOAI	Southern Equipment Co.,	San Antonio, Tex.
WOAJ	Ervine Electrical Co.,	Parsons, Kan.
WOAK	Collins Hdwe. Co.,	Frankfort, Ky.
WOAL	Wm. E. Woods. Webster Groves, Mo.	
WOAN	Vaughn Conservatory of Music,	Lawrenceburg, Tenn.
WOAO	Lyradion Mfg. Co.,	Mishawaka, Ind.
WOAP	Kalamazoo College.,	Kalamazoo, Mich.
WOAQ	Portsmouth Radio Assoc.,	Portsmouth, Va.
WOAR	Henry P. Lundskow.,	Kenosha, Wis.
WOAS	Bailey's Radio Shop,	Middletown, Conn.



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