

RADIO SERVICE BULLETIN

ISSUED MONTHLY BY BUREAU OF NAVIGATION, DEPARTMENT OF COMMERCE

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ABBREVIATIONS.

The necessary corrections to the List of Radio Stations of the United States and to the International List of Radiotelegraph Stations, appearing in this Bulletin under the heading "Alterations and corrections," are published after the stations affected in the following order:

Name	=Name of station.
Loc.	=Geographical location: O=west longitude, N=north latitude, S=south latitude.
Call	=Call letters assigned.
System	=Radio system used and sparks per second.
Range	=Normal range in nautical miles.
W. L.	=Wave lengths assigned: Normal wave lengths in italics.
Service	=Nature of service maintained. PG=General public. PR=Limited public. RC=Radio compass station. P=Private. G=Government business exclusively.
Hours	=Hours of operation. N=Continuous service. X=No regular hours. m=a. m. (12 m=midday). s=p. m. (12s=midnight).
Rates	=Ship or coast charges in cents: c=cents (The rates in the international lists are given in francs and centimes.)
I. W. T. Co.	=Independent Wireless Telegraph Co.
R. C. of A.	=Radio Corporation of America.
S. O. R. S.	=Ship Owners' Radio Service.
C. w.	=Continuous wave.
I. c. w.	=Interrupted continuous wave.
V. t.	=Vacuum tube.
FX.	=Fixed station.

CERTIFICATE: By direction of the Secretary of Commerce this publication is issued as an administrative report and is required for the proper transmission of the public business.

NEW STATIONS.

Commercial land stations, alphabetically by names of stations.

[Additions to the List of Radio Stations of the United States, edition of June 30, 1921, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

Station.	Call signal.	Wave lengths.	Service.	Hours.	Station controlled by—
Everett, Wash. ¹	KFT	300, 440, 520, 600	PG	N	American Telephone Co.
Tulsa, Okla. ²	WEH	360, 435, 510	PR (PNA)	X	Midland Refining Co.

¹ Loc. O. 102° 15' W., N. 45° 00' 00"; range, 300; system, Kilbourne & Clark, 1920; rates, ship service, 10 c. per word (approximately).² Loc. (approximately) O. 97° 20' W., N. 39° 29' 00"; range, 350; system, composite (v. t., telephone, and telegraph); rates, none.*Commercial ship stations, alphabetically by names of vessels.*

[Additions to the List of Radio Stations of the United States, edition of June 30, 1921, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

Name of vessel.	Call signal.	Rates		Service.	Hours	Owner of vessel.	Station controlled by—
		North and South American service.	Trans-Pacific service.				
Alberta.....	KPAK	\$	\$	PG	X	Vacuum Oil Co.	R. C. & I.A.
Bayonne.....	KPAQ			PG	X	Cary Davis Tug & Barge Co.	
Dolly C.	KPAI			PR	X	C. E. Davis Packing Co.	Owner of vessel
G. S. Allen ¹	KDZY			PG	X	P. E. Parson.....	
Guarina.....	KDZS			PG	X	Old Dominion Transportation Co.	
Hamilton.....	KFAM			PG	X	American Hawaiian S. S. Co.	United American Lines.
Missouri.....	KFAA	\$	\$	PG	X	Argonaut S. S. Co.	
Pacific.....	KDZY			PG	X	William L. Elkins.....	
Pilgrim.....	KFAH						

¹ Range, 150; system, Navy Vinton, 1000; w. l., 300, 450, 600; rates, none.*Commercial land and ship stations, alphabetically by call signals.*

[b = ship station; c = land station.]

Call signal.	Name.	Call signal.	Name.		
KDZS	Guarina.....	b	KPAK	Alberta.....	b
KDZY	Pacific.....	b	KPAL	Dolly C.	b
KDZY	G. S. Allen.....	b	KFAM	Hamilton.....	b
KFAA	Missouri.....	b	KFT	Everett, Wash.....	c
KFAA	Bayonne.....	b	WEH	Tulsa, Okla.....	c
KFAH	Pilgrim.....	b			

List of stations broadcasting market or weather reports (485 meters) and music, concerts, lectures, etc. (369 meters), alphabetically by call letters.

Call signal.	Station operated and controlled by	Location of station.	Wave lengths.
KJZK	Claude W. Gordon.....	San Francisco, Calif., 2198 O'Farrell St.	360
KDZX	Glad Tidings Tabernacle.....	San Francisco, Calif., 1555 Ellis St.	360
KJZZ	Kinniry Bros. & Sippert.....	Everett, Wash., 115 Hewitt Ave.	360
KFAB	Pacific Bell Telephone Co.	Portland, Ore., 105 N. Broadway.	360
KFAC	Glendale Daily Press.....	Glendale, Calif., 2228 Brand Boulevard.	360
KFAD	McArthur Bros. Mercantile Co.	Phoenix, Ariz., 134 S. Central St.	360
KFAE	State College of Washington.....	Bendgate, Wash.....	360
KFAF	Western Bell Telephone.....	Berkeley, Calif., 735 Lincoln St.	360
KFAJ	University of Colorado.....	Boulder, Colo.....	360
KFAK	Shepard Co.	Providence, R. I.	360
WEAN	Ohio State University.....	Columbus, Ohio.....	360, 455
WEAO	Mobile Radio Co.	Mobile, Ala., 197 Winn Building.....	360
WEAP	Young Men's Christian Association.....	Burlin, N. H.	360
WEAW	Baltimore American & News Publishing Co.	Baltimore, Md., Monsey Building.....	360
WEAR	Hoch Co.	Washington, D. C., Seventh and F Sts. N. W.	360
WEAS	John J. Fournier.....	Tampa, Fla., 307 Armenia St.	360
WEAT	Davidson Bros. Co.	St. Paul City, Iowa.....	360
WEAJ	Sheridan Electric Service Co.	Rushville, Neb.	360
WEAV	T. J. M. Daly.....	Little Rock, Ark., P. O. Box 614.	360, 455
WEAZ	Will Horwitz, Jr.	Houston, Tex., 812 Travis St.	360
WEAW	Donald Redmond.....	Waterloo, Iowa, 1120 Birch Ave.	360
WEBH	Midland Refining Co.	Tulsa, Okla., 300 S. Main St., Midradio, Kans.	360, 455
WFAA	A. H. Belo & Co.	Dallas, Tex.	360, 455
WFAB	Carl F. Weese.....	Syracuse, N. Y., 302 McBride St.	360
WFAC	Superior Racine Co.	Superior, Wis., 252 Judith Ave.	360
WFAD	Watson-Weltman Motor Supply Co.	Fallina, Kan., 211 N. Santa Fe St.	360
WFAE	H. C. Spratley Co.	Poughkeepsie, N. Y., 357 Main St.	360
WFAG	Radio Engineering Laboratory, Electric Supply Co.	Waco, Tex., Sixth and Broad Sts.	360
WFAH	Hi-Grade Wireless Instrument Co.	Port Arthur, Tex., 637 Proctor St.	360
WFAT	Domestic Electric Co.	Ashville, N. C., 47 Belmont St.	360
WFAL	Houston Chronicle Publishing Co.	Steinwood, Mo., 908 Pine St.	360
WFAM	Times Publishing Co.	Houston, Tex.	360, 455
WFAN	Hutchinson Electric Service Co.	St. Cloud, Minn.	360
WFAP	Brown's Business College.....	Hutchinson, Minn.	360, 455
WFAQ	Missouri Wesleyan College and Cameron Racine Co.	Peoria, Ill.	360
WFAR	Hall & Statiba.....	Cameron, Mo.	360
WFAS	Central Radio Corp.	Sanford, Me., 1 Bennett St.	360
WFAT	Daily Argus-Leader.....	Fort Wayne, Ind., 107 E. Main St.	360
WFATU	Edwin C. Lewis.....	Alton, Mass., 101 Federal St.	360
WFAV	University of Nebraska, Department of electrical engineering.....	Lincoln, Neb.	360, 455
WFAW	Miami Daily Metropolis.....	Miami, Fla.	360
WFAX	Arthur L. Kent.....	Binghamton, N. Y., 199 Court St.	360
WFAY	Daniels Radio Supply Co.	Independence, Kans.	360
WFAZ	South Carolina Radio Shop.....	Charleston, S. C.	360
WGAB	O. R. V. Radio Co.	Houston, Tex., 213 Prairie Ave.	360
WGAC	Orygenna Radio Service Co.	Brooklyn, N. Y., 547 Fulton St.	360
WGAD	Spanish-American School of Radiotigraphy.....	Encino, P. R., 200 E. Eleventh St.	360
WGAF	Geiger Radio Service.....	Tulsa, Okla., 201 E. Eleventh St.	360
WGAH	New Haven Electric Co.	New Haven, Conn., 206 Elm St.	360
WGAI	W. H. Cass.....	Shenandoah, Iowa, 433 Seventh Ave.	360
WGAK	Macom Electric Co.	Moore, Ga.	360
WGAL	Lancaster Electric Supply & Construction Co.	Lancaster, Pa., 24 E. Orange St.	360
WGAM	Ortingburg Radio Equipment Co.	Oreogburg, S. C.	360
WGAR	Cecil E. Lloyd.....	Penrose, Fla., 236 W. Romana St.	360
WGAR	W. G. Patterson (Glenwood Radio Corp.)	Shreveport, La.	360
WGAS	Southwest American.....	Port Huron, Ark., 507 Rogers Ave.	360
WGAT	Ray-Di-Cor Organization.....	Chicago, Ill., 1547 N. Wells St.	360
WGAT	American Legion, Department of Nebraska.....	Lincoln, Nebr., 314 Richards Block.	360
WGAT	Marcus G. Limb.....	Wooster, Ohio, 235 E. Liberty St.	360
WGAV	H-H Radio Co.	Savannah, Ga., 204 W. Brumpton St.	360
WGAW	Ernest C. Albright.....	Albion, Pa., 1918 W. Chestnut St.	360
WGAY	North Western Radio Co.	Madison, Wis., 290 State St.	360
WGAY	South Bend Tribune.....	South Bend, Ind.	360
WGAA	State University of Iowa.....	Town City, Iowa.	360
WGAA	Clark W. Thompson (Fridman's Dry Goods Co.)	Galveston, Tex.	360, 455
WGAC	Cole Bros. Electric Co.	Waterloo, Iowa.	360
WGAD	Marquette University.....	Milwaukee, Wis.	360
WGAF	Automotive Electric Service Co.	St. Paul City, Iowa.	360
WGAF	Radio Electric Co.	Pittsburgh, Pa.	360

RADIO SERVICE BULLETIN.

Government ship stations, alphabetically by names of stations.

(Additions to the List of Radio Stations of the United States, edition of June 30, 1921, and to the International List of Radiotelegraph Stations published by the Berne Bureau.)

Station.	Call signal.	Station controlled by—
Cuba.....	WYCA	U. S. Army.
Discoverer.....	NJST	U. S. Coast and Geodetic Survey.
Martinique.....	NIGV	Do.
Pioneer.....	NJIL	Do.

Government land and ship stations, alphabetically by call signals.

[b = ship station; c = land station.]

Call signal.	Name of station.	Call signal.	Name of station.
NIGV	Martinique.....	b	Discoverer.....
NJIL	Pioneer.....	b	Cuba.....

Special land stations, alphabetically by names of stations.

(Additions to the List of Radio Stations of the United States, edition of June 30, 1921.)

Station.	Call signal.	Wavelengths.	Station controlled by—
Abilene, Tex.....	6ZAX	390, 375.....	Eugene W. Wood, 340 Harrison Street.
Athens, Ga.....	4XZ	390, 375.....	Technological High School.
Belmar, N. J.....	2XAO	Variable.....	Radio Corporation of America, 230 Broadway, New York, N. Y.
Dallas, Tex.....	5ZAY	600, 375.....	A. H. Falo & Co.
DeQueen, Ark.....	3XP	375.....	Henry M. Newell.
Fayetteville, Ark.....	5ZAZ	600, 375.....	Lawrence W. Stinson, 354 North West Street.
Great Neck, N. Y.....	5XAN	Variable.....	Harry Alexander, 20 West Thirty-fourth Street, New York, N. Y.
Madison, Wis.....	6XJL	360.....	North Western Radio Co., 260 State Street.
Mobile, Ala.....	5XAE	390, 375.....	Mobile Radio Co., 1747 Wilson Building.
New Brunswick, N. J.....	2XAM	Variable.....	Radio Corporation of America, 230 Broadway, New York, N. Y.
Oklahoma City, Okla.....	5XAF	290, 375.....	Rowell R. Downing.
Orange, Tex.....	5XAD	Variable.....	Grey & Gray.
Philadelphia, Pa.....	5XAU	390, 375.....	Westinghouse Electric & Manufacturing Co., 214 North Twenty-second Street.
Pittsburgh, Pa.....	5XW	Variable.....	Radio Electric Co., 1427 Liberty Avenue.
Pittsburgh, Pa.....	5XN	390, 375.....	Duquesne University.
San Francisco, Calif.....	5XAU	Variable.....	Willard McGuire Co., 1004 Franklin Avenue.
Tampa, Fla.....	4XJ	280, 325.....	Thompson Electric Co., 102 West Lafayette Street.
Washington, D. C.....	5XO	390, 375.....	Central High School.
Watertown, Conn.....	1XT	360.....	Bristol Co.
Winchendon, Mass.....	1XQ	Variable.....	Lloyd C. Greene, 58 Somerset Avenue.
Worcester, Mass.....	1XK	Variable.....	One C. White, 17 Harrison Street.

Special land stations, grouped by districts.

Call signal.	District and station.	Call signal.	District and station.
1XQ	First district: Winthrop, Mass.	5XAB	First district:
1XE	Worcester, Mass.	5XAE	Orange, Tex.
1XT	Waterbury, Conn.	5XAF	Mobile, Ala.
2XAM	Second district: New Brunswick, N. J.	5ZAS	Oklahoma City, Okla.
2XAN	Great Neck, N. Y.	5ZAU	Abilene, Tex.
2XAO	Belmar, N. J.	5ZAY	Dallas, Tex.
2XAG	Third district: Philadelphia, Pa.	5ZAZ	Fayetteville, Ark.
3XO	Washington, D. C.	5XAU	Sixth district: San Francisco, Calif.
3XP	DeQueen, Ark.	5XW	Eighth district: Pittsburgh, Pa.
4XJ	Fourth district: Atlanta, Ga.	2XL	10th district: Tampa, Fla.
4XJ	Tampa, Fla.		Ninth district: Madison, Wis.

ALTERATIONS AND CORRECTIONS.

COMMERCIAL LAND STATIONS.

- BOSTON, MASS.—Loc. 41° 03' 40", N. 42° 21' 19".
 DEARMOND, MISS. (KDEN).—System, composite (v. t., telephone).
 EAST HAMPTON, N. Y.—Station operated and controlled by L. W. T. Co.
 EAST MORNING, N. Y.—Call changed to WSE.
 FALL RIVER MILLS, CALIF.—Strike out all particulars.
 HARTFORD, CONN. (WGBB).—Strike out all particulars.
 HOLLYWOOD, CALIF.—Strike out all particulars.
 KAHUKU, HAWAII (KIK).—Systems, R. C. of A. (Alexanderson alternator and R. C. of A.); spark, 1000; w. l., 9145, 14, 925.
 MARION, Mass. (WCG).—System, R. C. of A. (v. t., c. w., and i. c. w.).
 NARNEK, ALASKA (KMK).—Range, 500; w. l., 300, 400, 500, 1800.
 NEW LONDON, CONN. (WLW).—System, Navy-Lowenstein, 1800.
 NEW YORK, N. Y. (WSE).—Call changed to WRC.
 NORTHVILLE, MICH.—System, composite (v. t., telephone); w. l., 425.
 PORT CLINTON, MICH.—Range, 150; system, R. C. of A. (v. t., telephone and telegraph); w. l., 300, 400, 500, 1800.
 ROGERS, MICH.—System, U. S. Navy spark, 1000 and composite (v. t., telephone, and telegraph); w. l., 300, 400, 475, 525.
 SAN FRANCISCO, CALIF. (KUH).—Range, 150—system, composite (v. t., telephone, and composite) spark, 1000.
 SUSANVILLE, CALIF.—Strike out all particulars.
 UGLASHIK, ALASKA.—Range, 250.

COMMERCIAL SHIP STATIONS, ALPHABETICALLY BY NAMES OF VESSELS.

- (Alterations and corrections to be made to the List of Radio Stations of the United States, edition of June 30, 1919, and to the International List of Radiotelegraph Stations, published by the Home Bureau.)
- A. A. DASHOFFER.—Station operated and controlled by L. W. T. Co.
 AROLUS.—Name changed to City of Los Angeles.
 ALASKAN.—Station operated and controlled by United American Lines.
 AMERICAN.—Station operated and controlled by United American Lines.
 ABENAY.—Range, 300; system, Navy-Liberty, 1000; w. l., 300, 450, 600.
 AMERICANAS.—Station operated and controlled by United American Lines.
 ASTMANAS III.—Name changed to Ormidale; Charlton B. Hibbard owner of vessel.
 ASTMANAS IV.—Name changed to Glandore; Charlton B. Hibbard owner of vessel.
 ATENAS.—United Fruit S. S. Corp. owner of vessel.
 BALBRIDGE.—Strike out all particulars.
 BALTICORE.—Strike out all particulars.
 BARWICK.—Station operated and controlled by L. W. T. Co.
 BASCOBEL.—System, Navy-Wireless Specialty Apparatus Co., 1000.
 BAYSIDE.—Strike out all particulars.
 BAY STATE.—Name changed to President Madison.
 BELLA.—Strike out all particulars.
 BERKOM.—Name changed to Irene; A. H. Bell S. S. Co., owner of vessel.
 BOONIA.—Strike out all particulars.
 EYERIG.—Strike out all particulars.
 CALAMARIUS.—United Fruit S. S. Corp. owner of vessel.
 CALIFORNIA.—Range, 300; system, Telefunken, 1000; w. l., 300, 450, 600, 1800;
 station operated and controlled by United American Lines.
 CALIFORNIA.—J. M. Mahony owner of vessel.
 CAMDEN (KDKL).—United Fruit Tanker Corp. owner of vessel.
 CAPE HENRY.—Station operated and controlled by S. O. R. S.
 CARL D. BRAZLEY.—System, R. C. of A. (v. t., telephone, and R. C. of A.); spark,
 1000; w. l., 300, 450, 575, 600.

CARRILLO.—United Fruit S. S. Corp. owner of vessel.
CARTAGO.—United Fruit S. S. Corp. owner of vessel.
CATHERINE D.—Rates, North and South American and transoceanic services \$ c. per word; effective August 1, next.
CENTRAL AMERICAN.—Strike out all particulars.
CHARLES PRATT.—System, R. C. of A., 1000.
CHESTER W. CHAPIN.—Range, 150; system, Cutting & Washington, 1000; w. l., 300, 450, 600; rates, North and South American and transoceanic services \$ c. per word; station operated and controlled by I. W. T. Co.
CLAREMONT.—Hart-Wood Lumber Co., owner of vessel.
CLAVAHACK.—W. l., 300, 450, 600.
COCHIS.—Strike out all particulars.
COKEAT.—Range, 300; system, Navy-Lowenstein, 1000; w. l., 300, 450, 600.
COMMONWEALTH.—System, Cutting & Washington, 1000; w. l., 300, 450, 550, 600; rates, North and South American and transoceanic services \$ c. per word; station operated and controlled by I. W. T. Co.
COVERIN.—Fred J. Gauntlett owner of vessel.
COWARDIN.—Strike out all particulars.
COWEE.—Fred J. Gauntlett, owner of vessel.
COWICHAN.—W. l., 300, 450, 600; California and Oregon Lumber Co. owner of vessel; station operated and controlled by S. O. R. S.
CRANESKIE.—Morton Salt Co. owner of vessel.
DAKOTAN.—Station operated and controlled by United American Lines.
DELTAINE (KIFL).—Name changed to Stellaris; Stellar F. Schlotman owner of vessel.
DELROSA.—Station operated and controlled by S. O. R. S.
DOLPHIN.—Range, 150; system, R. C. of A., 1000; w. l., 300, 450, 600; rates, North and South American and transoceanic services \$ c. per word; station operated and controlled by owner of vessel.
EASTERN CLOUD.—Garland S. S. Corp. owner of vessel.
EASTERN IMPORTER.—Range, 200; system, Navy Kilbourne & Clark, 1000; w. l., 300, 450, 600.
EASTERN SEA.—Station operated and controlled by S. O. R. S.
EASTERN STAR.—W. l., 300, 450, 600.
EPINA.—System, Navy-Kilbourne & Clark, 1000.
EMPIRE STATE.—Name changed to President Wilson.
EPARTA.—United Fruit S. S. Corp. owner of vessel.
FELTORE.—Range, 300; w. l., 300, 600.
FLORIDIAN.—Station operated and controlled by United American Lines.
FOREST KING.—Rates, North and South American and transoceanic services \$ c. per word; effective August 1, next.
FRED'K LUERENBACH.—Name changed to Castle Lodge.
GAKERI.—Strike out all particulars.
GEORGIAN.—Station operated and controlled by United American Lines.
GLENDANCER.—Station operated and controlled by I. W. T. Co.
GOLDEN STATE.—Name changed to President Cleveland.
GULFOIL.—W. l., 300, 450, 600.
HALF MOON (KUVX).—Range, 300; system, Navy-Marconi, 1000; w. l., 300, 450, 600.
HAWAIIAN.—Station operated and controlled by United American Lines.
HAWKEYE STATE.—Name changed to President Pierce.
HEFFRON.—Range, 300; system, Navy-Lowenstein, 1000; w. l., 300, 450, 600.
H. F. ALEXANDER.—Range, 200; system, R. C. of A. (v. t. telephone and telegraph, c. w. and i. c. w.); w. l., 300, 550, 600, 1800; rates, North and South American and transoceanic services \$ c. per word; station operated and controlled by R. C. of A.

H. M. STOREY.—Standard Oil Co. of Calif. owner of vessel.
H. T. HARPER.—Standard Oil Co. of Calif. owner of vessel.
HUKKEY.—Range, 200; system, Navy-Simon, 1000; w. l., 300, 600.
HULVER.—W. l., 300, 450, 600.
IOWAN.—Station operated and controlled by United American Lines.
IPSWICH.—Station operated and controlled by United American Lines.
KERMIT.—Range, 200; w. l., 300, 450, 600; hours, X; station operated and controlled by United American Lines.
KEYSTONE STATE.—Name changed to President McKinley.
LAUREL.—Name changed to Wm. G. Howard; Thomas J. Howard owner of vessel.
LAKE ARTHUR.—System; Navy-R. C. of A., 1000.
LAKE WINTHROP.—Station operated and controlled by I. W. T. Co.
LEVIATHAS.—Strike out all particulars.
LEVIRA.—United Fruit S. S. Corp. owner of vessel.
LIMON.—United Fruit S. S. Corp. owner of vessel.
MAGOMET.—Name changed to Elizabeth; A. H. Bull S. S. Co. owner of vessel.
MADEVILLE.—Name changed to Lillian; A. H. Bull S. S. Co. owner of vessel.
MAJOR WHEELER.—System, Navy-Kilbourne & Clark, 1000; w. l., 300, 450, 600; hours, X.
MANCHURIA.—W. l., 300, 450, 600; rates, North and South American and transoceanic services 8 c. per word.
MANUKAI.—W. l., 300, 450, 600.
MARINE.—Range, 200; system, R. C. of A., 1000; w. l., 300, 600; rates, North and South American and transoceanic services 8 c. per word, station operated and controlled by R. C. of A.
MARTINIQUE.—Range, 200; system, Navy-I. R. T. Co., 1000; w. l., 300, 450, 600.
MARY.—Bull-Insular S. S. Co. owner of vessel.
MEXICAN.—Station operated and controlled by United American Lines.
MINNEOTAN.—Station operated and controlled by United American Lines.
MONTECRILLO.—W. l., 300, 450, 600; hours, X; station operated and controlled by United American Lines.
MONTEKELT.—W. l., 300, 450, 600; hours, X; station operated and controlled by United American Lines.
MOOSITE.—Pacific S. S. Co. owner of vessel.
MOUNT BAKER.—Frank B. Peterson owner of vessel.
MOUNT CARROLL.—Station operated and controlled by United American Lines.
MOUNT CLAY.—Station operated and controlled by United American Lines.
MOUNT CLINTON.—Station operated and controlled by United American Lines.
MYSTIC.—Station operated and controlled by United American Lines.
NACOGDOCHES.—Strike out all particulars.
NEBRASKAN.—Station operated and controlled by United American Lines.
NEVADAN (WFF).—Station operated and controlled by United American Lines.
NEW JERSEY.—Range, 200; system, I. W. T. Co., 1000; w. l., 300, 600; rates, North and South American and transoceanic services 8 c. per word.
NIKA.—W. l., 300, 450, 600; H. K. Goodwin owner of vessel.
NORTHERN STAR.—Range, 200; system, Navy-Wireless Improvement Co., 1000; w. l., 300, 450, 600.
NORTH WIND.—A. C. Burton owner of vessel.
NORWOOD.—Rates, North and South American and transoceanic services 8 c. per word, effective August 1 next.
OHIOAN.—Station operated and controlled by United American Lines.
OREGONIAN.—Station operated and controlled by United American Lines.
ORIENTAL.—Range, 200; system, R. C. of A., 1000; w. l., 300, 600.
ORMIDALE.—Station operated and controlled by I. W. T. Co.

OZMO.—Strike out all particulars.

PANAMAN.—Station operated and controlled by United American Lines.

PAN-AMERICA.—Range, 300; system, Federal arc; w. l., 300, 450, 150; hours, N.

PARISMINA.—United Fruit S. S. Corp. owner of vessel.

PASTORES.—United Fruit S. S. Corp. owner of vessel.

PENSACOLA STATE.—Name changed to President Roosevelt.

PENNSYLVANIAN.—Station operated and controlled by United American Lines.

PEÑONSCOR.—System, Navy-Marconi, 1000.

PETOSKEY.—Range, 150; system, R. G. of A., 1000.

P. J. RULLY.—Station operated and controlled by I. W. T. Co.

POZNAM.—Lueckenbach S. S. Co. owner of vessel.

PRESIDENT GARFIELD.—System, Navy Marconi, 1000.

PRESIDENT ROOSEVELT (KD9W).—Name changed to Buckeye State.

PRISCILLA.—Range, 150; system, Cutting & Washington, 1000; w. l., 300, 450, 550, 600; rates, North and South American and transoceanic services 8 c. per word; station operated and controlled by I. W. T. Co.

REDWOOD.—Rates, North and South American and transoceanic services 3 c. per word, effective August 1 next.

RESCUE.—Strike out all particulars.

RESOLUTE (KDYA).—Station operated and controlled by United American Lines.

ROCKAWAY PARK.—System, Navy-Wireless Improvement Co., 1000; w. l., 300, 450, 600.

SABALE.—W. l., 300, 450, 600.

SAN JOSE.—United Fruit S. S. Corp. owner of vessel.

SARAGASS.—United Fruit S. S. Corp. owner of vessel.

SEKANDERB.—Range, 100; system, R. G. of A. v. t., telephone, and R. G. of A. spark, 1000; w. l., 300, 450, 475, 600.

SILVER STATE.—Name changed to President Jackson.

SIXAOLA.—United Fruit S. S. Corp. owner of vessel.

STANLEY.—System, Navy-Kilbourne & Clark, 1000; w. l., 300, 450, 600.

STERLING.—W. l., 300, 450, 600.

SUDSBURY.—Station operated and controlled by United American Lines.

SURCO.—Range, 300; system, Navy, 1000; w. l., 300, 450, 600.

SURICO.—Range, 300; system, Navy, 1000; w. l., 300, 450, 600; rates, North and South American and transoceanic services 8 c. per word.

TEXAN.—Station operated and controlled by United American Lines.

THE LAMBS.—Range, 300; system, Navy, 1000; w. l., 300, 450, 600; hours, N.

TRIVIERA.—United Fruit S. S. Corp. owner of vessel.

TURRIAGA.—United Fruit S. S. Corp. owner of vessel.

VALLOMA.—Strike out all particulars.

Victorians.—System, Navy-Wireless Specialty Apparatus Co., 1000.

VINCENT.—System, Navy-Kilbourne & Clark, 1000; w. l., 300, 450, 600; hours, X; station operated and controlled by S. O. R. S.

VIRGINIAN.—Station operated and controlled by United American Lines.

WEST INDONES.—Range, 250; w. l., 300, 450, 600.

WEST ISLETA.—System, Navy-Kilbourne & Clark, 1000; w. l., 300, 450, 600.

WILLIAM B. LIVINGSTON.—Strike out all particulars.

WILLIAM M. MILES.—Name changed to D. F. McAllister; Daniel F. McAllister owner of vessel.

W. J. CROSBY.—North Shore Transit Co., owner of vessel.

YANKTON.—Strike out all particulars.

YOKEMATE (KDWE).—Rates, North and South American and transoceanic services 8 c. per word, effective August 1 next; station operated and controlled by S. O. R. S.

COMMERCIAL LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

KDCM, *read* President Cleveland; KDNV, *read* President Pierce; KDPA, *read* President Jackson; KDRW, *read* Buckeye State; KDSL, *read* President McKinley; KDSV, *read* President Wilson; KDVR, *read* President Madison; KDWS, *read* President Roosevelt; KEJT, *read* D. E. McAllister; KGTV, *read* Castle Lodge; KJFL, *read* Stellaris; KJST, *read* Wm. G. Howard; KOKT, *read* Irene; KORC, *read* Elizabeth; KOZO, *read* City of Los Angeles; KUGZ, *read* William; WBG, *read* New York, N. Y.; WDF, *read* Glendarmel; WGB, *read* Ormidale; WSE, *read* East Moriches, N. Y.; strike out all particulars following the call signals, KDAQ, KDDW, KDWT, KDXH, KELR, KEQQ, KERI, KESL, KFT, KGC, KIDZ, KKIU, KOBS, KRP, KUJL, KULR, WAX, WDJ, WDK, WKOU, and WQR.

GOVERNMENT LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

(Alterations and corrections to be made to the List of Radio Stations of the United States, edition of June 10, 1921.)

AKUTAN, ALASKA. Service, O; hours, X.

BOSTON, MASS. (WVO).—Service, O; hours, X.

BURWOOD, LA.—Strike out all particulars.

JUPITER, FLA. (radio compass station).—Strike out all particulars.

PUGET SOUND, WASH. (NPZ).—Call changed to NPC.

GOVERNMENT SHIP STATIONS, ALPHABETICALLY BY NAMES OF VESSELS.

(Alterations and corrections to be made to the List of Radio Stations of the United States, edition of June 10, 1921.)

AUK.—Strike out all particulars.

BROOKLYN.—Strike out all particulars.

DIX.—Strike out all particulars.

EIDER (KOKJ). Call signal changed to NURK.

LEBANGN.—Strike out all particulars.

NORTH PACIFIC.—Strike out all particulars.

OSPREY. Strike out all particulars.

SCHENCK.—Correct orthography Schenck.

S. C. 426.—Strike out all particulars.

TATTNAL.—Correct orthography Tattnal.

TRACEY.—Correct orthography Tracy.

GOVERNMENT LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

KOKJ *read* NURK, NEMG, *read* Schenck; NEPS, *read* Tattnal, NPZ, *read* NPC; NUJL, *read* Tracy; strike out all particulars following the call signals, NAQ, NBX, NFA, NJJL, NJLT, NJQL, NJZ, WIM, and WYC.

BROADCASTING STATIONS, BY CALL SIGNALS.

KIIJ (Los Angeles, Calif.).—W. L., 360, 485.

KJR (Seattle, Wash.).—W. L., 360 only.

KMJ (Prescott, Calif.).—W. L., 360, 485.

KOJ (Reno, Nev.).—Strike out all particulars.

KQJ (Los Angeles, Calif.).—Strike out all particulars.

KWH (Los Angeles, Calif.).—W. L., 360, 485.

KZY (Oakland, Calif.).—Read San Francisco, Calif., 646 Mission Street.

WAAB (New Orleans, La.).—Station operated and controlled by Valdemar Jensen, 137 South St. Patrick Street.

WAAF (Chicago, Ill.).—Station operated and controlled by Chicago Daily Drovers Journal.

WAAC (Shreveport, La.).—Address 341 Liatre Street.

- WAAK (Milwaukee, Wis.)—W. L., 360, 485.
 WOK (St. Louis, Mo.)—W. L., 360, 485.
 WGH (Montgomery, Ala.)—Strike out all particulars.
 WGI (Medford Hillside, Mass.)—W. L., 360, 485.
 WGY (Schenectady, N. Y.)—W. L., 360, 485.
 WLK (Indianapolis, Ind.)—Address 25 North New Jersey Street.

SPECIAL LAND STATIONS, BY NAME OF STATIONS.

- ATLANTA, GA. (4XA)—W. L., 200, 275, 375.
 BANGOR, ME. (1XG)—W. L., 275, 375.
 BERKELEY, CALIF. (6ZAF)—Address 55 Market Street.
 BLACKWELL, OKLA. (5ZZ)—Address 304 West College Street.
 BUFFALO, N. Y. (8XAD)—W. L., 300, 200, 375.
 BUFFALO, N. Y. (8YQ)—Strike out all particulars.
 CAMDEN, N. J. (3YQ)—Address 201 Federal Street.
 CAMP DIX, N. J. (2YA)—Strike out all particulars.
 CLEVELAND, OHIO (3ZP)—5115 Herman Avenue.
 DALLAS, TEX. (5XG)—Strike out all particulars.
 DEARBORN, MICH. (8XD)—W. L., 400, 400, 500, 520.
 ELLSWORTH, MINN. (1XC)—W. L., 275, 375.
 FORT PIERCE, FLA. (2ZN)—Strike out all particulars.
 GAINESVILLE, FLA. (4ZC)—Strike out all particulars.
 GREENSBORO, N. C. (4ZA)—Strike out all particulars.
 HIGHLAND PARK, ILLINOIS. (8XAF)—W. L., variable 200 to 530.
 HOBOKEN, N. J. (2XD)—Address 160 Duane Street, New York, N. Y.
 HOUSTON, TEX. (5ZE)—Address Brookline Avenue.
 JACKSON, TENN. (5YB)—Strike out all particulars.
 LANSING, MICH. (8XM)—Strike out all particulars.
 LEXINGTON, VA. (3ZX)—Address 23 Edmundson Avenue.
 LITTLE ROCK, ARK. (5YH)—Strike out all particulars.
 LOS ANGELES, CALIF. (6XX)—Strike out all particulars.
 MOUNT CARROLL, ILL. (9ZG)—Read Byron, Ill.
 MOUNT CLEMENS, MICH. (8XA)—Address Penobscot Building, Detroit, Mich.
 NEW YORK, N. Y. (2XK)—Address 10 West Belmont Street.
 NORTHVILLE, MICH. (8KL)—W. L., 425, 500.
 OAKLAND, CALIF. (6XC)—Read San Francisco, Calif., 646 Mission Street.
 OAKLAND, CALIF. (6ZAE)—Address 1015 Eighty-third Avenue.
 Pawtucket, R. I. (1XAD)—Address 90 Bayley Street.
 PHILADELPHIA, PA. (8XI)—Strike out all particulars.
 PHILADELPHIA, PA. (3YI)—Strike out all particulars.
 PITTSBURGH, PA. (8XV)—Montier Street, Wilkinsburg, Pa.
 RICHMOND, VA. (3ZL)—Strike out all particulars.
 ROCK ISLAND, ILL. (9XAC)—Read Davenport, Iowa; w. l., variable; address 313
 East Twenty-ninth Street.
 SAVANNAH, GA. (4XB)—W. L., 280, 375.
 SCHENECTADY, N. Y. (2XQ)—W. L., 250, 1500.
 SEATTLE, Wash. (2XE)—Address 283 Broadway, New York, N. Y.
 SUNNYVALE, CALIF. (6XAG)—Address 121 East San Fernando Street.
 URBANA, ILL. (9XZ)—Address 711 Michigan Avenue.
 WACO, TEX. (5ZF)—Address Box 427.
 Washington, D. C. (3YA)—Address 401 Ninth Street NW.
 WASHINGTON, D. C. (3ZW)—1656 Newton Street NW.
 WHEELING, W. Va. (8ZW)—Station operated and controlled by John O. Stroebel, Jr.,
 and Earl W. Weimer; address 42 Poplar Avenue.
 Whitford, Pa. (3ZT)—Address "South Hill."

MISCELLANEOUS.

COMMUNICATIONS FOR BLACK SEA PORTS.

The United States Navy Department has assigned call letters NTTX as a general call for any naval vessel stationed at Constantinople. A station ship is maintained there at all times with continuous radio watch. Any United States Shipping Board vessel having communications for Black Sea ports can clear same through this station on 600 meters without charge. The vessel also collects communications from vessels in the Black Sea intended for Shipping Board representatives at Constantinople and London or other Shipping Board vessels in that vicinity.

ADMIRALTY NOTICE TO MARINERS.

St. John's W/T station (HZM) will close down about the end of May, 1922.

The broadcasting of synoptic weather reports by Aberdeen W/T station (call signal BYD) has ceased.

Caronore W/T D. F. station has ceased to operate.

Particulars regarding the Kidbrooke W/T station: Position, lat. 51° 28' N., long. 0° 02' E. (approximately); call signal, GFA; wave length, 4,100 meters c. w.; details, weather bulletins are broadcasted daily by this station at 0830 G. M. T. (civil). The bulletin consists of a synoptic date message and contains the same details formerly transmitted by Aberdeen W/T station.

—From Admiralty Notice to Mariners, No. 755, of the year 1922.

ALASKAN STATIONS REOPENED.

The stations named below opened for the season as follows: Becherof (KUDV), June 5; Metha Nelson (KMP), June 12; Daly (KDJT), June 13; Hawk Inlet (KKAI), June 23.

ILLED WHILE ERRECTING AERIAL.

Recently in Cleveland, Ohio, a father, 48 years of age, and his son, 15 years of age, were killed in a tragedy brought on when an aerial touched a 2,200-volt wire. In a hurry to set up a receiving set to hear a concert the young son, with the aid of another boy, who was seriously burned, had attached the aerial to the chimney of his house, and in doing so threw it over a high-tension wire. Not heeding the caution of other persons to tie a rope to the aerial, the young men clutched it. In the meantime friction of the aerial had rubbed off the insulation of the electric wire, a flash, the youth was killed instantly, and his father, who rushed to save him, died within a few minutes. This fatality should serve as a warning to others to be extremely careful in avoiding high tension wires, and for that purpose this narrative is published.

OPERATOR'S LICENSE SUSPENDED.

First-class, second-grade license No. 1359, issued at Baltimore, Md., August 29, 1921, has been suspended for a period of three months for violation of section 5, act of August 13, 1912, in that he willfully interfered with the transmission of another station.

First-class, second-grade license No. 3495, issued at New York, N. Y., June 27, 1922, has been suspended for a period of three months for violation of article 6 of the International Convention service regulations, in that he carried on an unofficial conversation with the operator of another vessel.

INFORMATION FROM THE BRITISH INTERNATIONAL BUREAU.

Great Britain. — The coast station Grimsby radio is now open, call signal GKZ. Beginning January 1, 1923, ships at sea will be able to obtain the following information by sending to one of the coast stations: Colerain radio, Devized radio, Fishguard radio, Grimsby radio, Land's End radio, Malin Head radio, Niton radio, North Fore-

Iand radio, Port Patrick radio, Seaforth radio, Valentia radio, and Wick radio a radiotelegram drawn up in the form indicated below:

<i>Information requested.</i>	<i>Form of radiogram to use.</i>
1. A report of the local weather conditions predominating at a coast station of any post office or at a signal station of Lloyd's in the United Kingdom.	1. Indicate weather at _____ 1. (1, write name of the station with the subject on which one desires information and the name of the ship.)
2. Information on the weather in different regions of the United Kingdom or of the continent.	2. Indicate weather at _____ meteorological _____ 2. (2, write name of ship.)
3. Previsions of the weather of the Meteorological Office	3. Indicate forecast for next _____ 3; _____ 4; meteorological _____ 5. Indicate previsions for the _____ 3 next hours _____ 4; meteorological _____ 5. (3, period ought to be indicated in hours and not to exceed 48 hours; 4, region or route desired; 5, name of ship.)

The tax due to the coast station for the request and the reply is 6 francs 25 centimes in case where the reply can be given from the information already in possession of the coast station with which the ship is in communication. Where the coast station has to obtain the information, the tax is 9 francs and 37½ centimes, which includes the charge for an interior telegram anywhere which may be necessary.

British West Indies. The coast rate of the Kingston (Jamaica) station is 60 centimes per word, no minimum.

Mesopotamia—The station Basra radio is now open to service with ships. The rate is 80 centimes per word.

Dutch Indies.—Beginning April 1 last the coast charge for all stations of the Dutch Indies open to general public correspondence is 60 centimes per word, no minimum.

Russia—The coast charge of Russian stations open to general public service is 60 centimes per word; no minimum. The interior rate of Russia, applicable on ordinary radiograms originating in or addressed to this country and exchanged directly with coast stations of this same country, is 13 centimes per word; no minimum.

New Zealand. The coast charge for the station Kaeweing radio is 30 centimes per word, no minimum, for radiograms exchanged with ships of Australia and New Zealand and 40 centimes per word for vessels other than those of Australia and New Zealand.

Solomon Islands. The coast charge of the station Kieta radio is 30 centimes per word, no minimum, for radiograms from vessels of Australia and New Zealand and 60 centimes per word, no minimum, for vessels other than those of Australia and New Zealand.

INTERFERENCE WITH ICE REPORTS.

During the broadcasting of ice reports by the North Atlantic ice patrol vessels the radio stations of ships while in the vicinity of the patrol vessels are required by Article XLV, paragraph 3, International Convention service regulations, to cease all transmitting except distress signals. A number of complaints of violation of this regulation have been recently received by this office, and in order to eliminate this interference the department may suspend the license of any operator who maliciously interferes with the transmission of such reports.

The following is from the Hydrographic Bulletin, June 28 last: "The ice patrol vessels send out information daily relative to the ice conditions, namely, 6 p. m. and 4 a. m. (seventy-fifth meridian), but owing to the use of radio by vessels * * * the interference is so great that the purpose of the patrol is not accomplished, as it is often impossible, especially at 4 a. m., for the receiving stations to secure the information desired in time to be of the fullest benefit to shipping."

ERROR IN MAY BULLETIN REGARDING CALL SIGNALS OF NAVAL STATIONS.

On page 17 of the Bulletin for last month the following corrections should be made in the list of stations given at the bottom of the page: St. Thomas, Virgin Islands, call signal NIB; San Juan, call signal NAU; Nevis Island, call signal NKC; Guantanamo, Cuba, call signal NAW.

SIGNAL TOWER TIME SIGNALS.

Time signals are now transmitted from Signal Tower at 0.35 a. m. and 10.45 p. m., instead of 10 a. m. and 11.45 p. m.

RATES FOR CANADIAN STATIONS ON PACIFIC COAST.

Effective the first of this month, the coast station rate of the Canadian government stations on the Pacific coast will be reduced from 12 to 10 cents per word.

LOUISBURG (CAPE BRETON) STATION.

The Marconi Wireless Telegraph Co. of Canada has opened a continuous wave coast station at Louisburg, call signal VAS, normal transmitting wave, 2200. Coast rate 10 cents per word.

SCHEDULE OF LEAFIELD AND CLIFFDEN STATIONS.

This office has been advised that on and from June 5 to 6, the period during which the high power continuous wave station Oxford-Radio (Leaffield) will transmit radiograms to ships, will be 0100-0150 G. M. T. daily instead of 2300-2400 G. M. T., as heretofore. In consequence of the above it has been necessary for us to change the times of transmission of private messages and press from the Clifden station. Therefore, on and from the morning of June 6, Clifden will commence the program to ships at 0200 G. M. T. instead of 0100 G. M. T. Arrangements have been made for the notification of the alteration to be broadcasted from both Leaffield and Clifden and instructions have been also given to telegraphists on outward-bound ships to advise homeward-bound ships of the alteration in the times of transmission by the respective stations.

BROADCASTING SCHEDULE OF MARKET REPORTS.

The following is a broadcasting schedule of market reports by radio. These reports are sent as press items, except where it is indicated that they are sent in code form. Forms are necessary for copying the reports sent by code, sample copies of which may be obtained from this bureau for Federal and air mail stations and for all others by writing to the broadcasting station direct. While this schedule is not complete, it is the most accurate that can be prepared from the information available and will be revised as rapidly as data are received. With the exception of Federal stations, practically all market, crop, and weather reports are sent out on 485 meters, while entertainment, news, etc., are broadcasted on 360 meters.

Federal, State, and private broadcasting stations.

[Submitted by Bureau of Agricultural Economics.]

Name and call letters of station.	Nature of reports.	Source.	Time of transmission.	Type of transmission.
Arlington, Va. (Washington, D. C.), Navy Radio Station, NAA.	Livestock receipts five or more principal markets (code).	Federal....	Eastern standard time. 8:45 a. m....	Telegraph, 3000 meters continuous wave transmission.
	Weather forecast.....	do....	10:00 a. m....	Do.
	Live market data, Chicago and St. Louis.....	do....	11:15 a. m....	Do.
	Fruit and vegetable shipments and shipping point information.....	do....	12:20 a. m....	Do.
	Fruit and vegetable markets.....	do....	1:40 p. m....	Do.
	Crop reports and special market news.....	do....	2:25 p. m....	Do.
	Closing live stock markets.....	do....	3:45 p. m....	Do.
	Hay and feed markets, Monday, Wednesday, and Friday.....	do....	4:00 p. m....	Do.
	Weather forecast.....	do....	5:00 p. m....	Do.
	Daily marketgram.....	do....	5:30 p. m....	Do.
	Weather forecast.....	do....	8:45 p. m....	Do.
Ames, Iowa: Iowa State College, WOI.	Information not available.....		Central time....	Phone.
Atlanta, Ga.: Atlanta Journal, WSB.	Information not available.....		do....	Do.
Atlanta, Ga.: Atlanta Constitution, WGM.				
Austin, Tex.: University of Texas, WTAM.	Weather reports.....	Federal....	Central time. 12:00 noon....	Phone.
	Market report, close on cotton, grain, and spot quotations.....		2:30 p. m....	Do.
	Entertainment.....	Local....	4:00 p. m....	Do.
	Ball score, news, etc.....	do....	5:00 p. m....	Do.
	Entertainment.....	do....	5:45 p. m....	Do.
	Opening cotton and grain markets.....	Local....	9:20 a. m....	Phone.
	News on cotton.....	do....	12:30 p. m....	Do.
	Livestock report.....	do....	2:45 p. m....	Do.
	Close on cotton and grain.....	do....	3:15 p. m....	Do.
	Laredo, Texas, report and general shipping point news.....	do....	4:00 p. m....	Do.
	Report on markets of Dallas, Fort Worth, Houston, and San Antonio, and general crop information.....	do....	8:00 p. m....	Do.
Boston, Mass. (Worcester): Clark University, WUN.	Weather reports.....	Federal....	Eastern time. 11:15 a. m....	Do.
	Massachusetts State market reports.....	State....	Do.	Do.
	Weather reports.....	Federal....	5:15 p. m....	Do.
Bridgeport, Pa.: Diamond State Fiber Co., WBAB.	Market and crop reports.....	do....	11:45 a. m....	Do.
	Mosaic (Thursday).....	Local....	7:30 p. m....	Do.
Buffalo, N. Y.: Federal Telegraph & Telephone Co., WGR.	New York State market reports.....	State....	12:00 noon....	Do.
	Weather reports.....	Federal....	5:30 p. m....	Do.
	New York State market reports.....	State....	5:45 p. m....	Do.
Charlotte, N. C.: Southern Radio Corporation, WBT.	Education talks and entertainment.....	Local....	7:30 p. m....	Do.
	Weather reports.....	Federal....	11:00 a. m....	Do.
	Ball scores, etc.....	Local....	6:00 p. m....	Do.
	Market reports.....	Federal....	8:00 p. m....	Do.
	Entertainment.....	Local....	8:30 p. m....	Do.
Chicago, Ill.: Westinghouse Electric & Manufacturing Co., KYW.	Fruit, vegetable, live stock, and grain (code).....	Federal....	Central time. 2:15 p. m....	Do.
	Fruit, vegetable, live stock, grain and dairy products (code).....	do....	4:15 p. m....	Do.
	Fruit, vegetable, live stock, and feeds.....	do....	6:00 p. m....	Do.
	Fruit, vegetable, live stock, grain, and dairy products (code).....	do....	7:30 p. m....	Do.
Cincinnati, Ohio: Cincinnati Radio Manufacturing Co., WLZ.	Wholesale fruit and vegetable report.....	do....	12:00 noon....	Do.
	Livestock report, Chicago and St. Louis.....	do....	3:00 p. m....	Do.
Grosley Manufacturing Co., WLW.	Financial and market report.....	do....	Eastern time. 1:00 p. m....	Do.
	Entertainment, etc.....	Local....	3:00 p. m....	Do.
	Talks, news items, music.....	do....	3:00 p. m....	Do.
Prairie Johnson Equipment, WMH.	Wholesale fruit and vegetable report.....	Federal....	Central time. 11:00 a. m....	Do.
	Livestock report, Chicago and St. Louis.....	do....	4:00 p. m....	Do.

* Not broadcasted on Saturdays from June 12 to Sept. 13.

Federal, State, and private broadcasting stations—Continued.

1 Not broadcast on Saturday (from June 15 to Sept. 15).

Federal, State, and private broadcasting stations—Continued.

Name and call letters of station.	Nature of reports.	Source.	Time of transmission.	Type of transmission.
Kansas City, Mo.: Sweeney Radio Recording Co., WIBB.	Grain market reports for the Kansas City Board of Trade (half-hour schedule).	Local.....	Central time. 8:30 a. m. to 12:30 p. m.	Phone.
Western Radio Co., WFOZ.	Hog report..... Live stock Kansas City (code). Fruit and vegetable..... Grain report (code). Live stock Kansas City (code). Live stock Chicago (code). Fruit and vegetable, Kansas City, Chicago, and St. Louis.	Federal..... do..... do..... do..... do..... do..... do..... do.....	8:45 a. m. 11:30 a. m. 11:45 a. m. 2:30 p. m. 2:45 p. m. 2:45 p. m. 2:50 p. m. 2:55 p. m.	Do. Do. Do. Do. Do. Do. Do. Do.
Lincoln, Neb.: University of Nebraska, WFAV.	Repeat the 2 and 2:30 p. m. reports Omaha hogs and sheep, and grain-report for Chicago, Omaha, and Kansas City.	Federal.....	2:30 p. m.	Do.
	Weather forecast, Nebraska.....	do.....	10:15 a. m.	Do.
Los Angeles, Calif.: Leo J. Mayberg Co., KYI.	Weather forecast..... Lectures University of Southern California..... Stock exchange report..... Music and entertainment.....	do..... Local..... do..... do.....	Pacific time. 9:00 a. m. 2:30 p. m. 4:00 p. m. 4:00 p. m.	Do. Do. Do. Do.
Madison, Wis.: University of Wisconsin, WIBA.	Chicago, potatoes, hogs, cattle, sheep, eggs, butter, cheese, poultry, and hay (code). Weather for Wisconsin..... Weather service at 12:30 p. m. United States time signal..... Weather forecast.....	Federal..... do..... do..... do..... do.....	Central time. 12:00 noon.... 12:30 p. m. 12:35 p. m. 12:55 a. m.	Telegraph. Do. Phone. Do. Do.
Manhattan, Kansas: Kansas State Agricultural College, WTG.	Weather and opening cotton market Close on cotton, live stock, and produce.	do..... do.....	11:45 a. m. 2:30 p. m.	Do. Do.
Memphis, Tenn.: Reichental-Crossby Co., WEN.	Baseball news..... Entertainment..... Serenades (Sunday).....	Local..... do..... do.....	6:00 p. m. 8:30 p. m. 10:00 a. m.	Do. Do. Do.
Milwaukee, Wis.: Gimbel Brothers Department Store, WAAK.	Market quotations of Milwaukee Chamber of Commerce.	do.....	Daylight saving, central time. 10:00, 11:00, 12:10 a. m. and 1:25	Do.
	Weather forecast (Wisconsin).....	Federal.....	11:00 a. m.	Do.
Minneapolis, Minn.: University of Minnesota, WLB.	Weather report, Minnesota, Wisconsin, North Dakota, South Dakota, and Montana. St. Paul live stock summary of morning market. Minneapolis wheat closing cash and futures, Minneapolis and St. Paul potatoes, summary.	Local..... State and Federal..... Local and Federal.....	Central time. 12:00 noon.... 12:00 noon....	Telegraph and followed by phone. Do.
Newark, N. J.: Westinghouse Electric & Manufacturing Co., WJZ.	Market reports, New York City wholesale fruit and vegetables.	State.....	Eastern time. 12:00 noon....	Do.
North Platte, Neb.: Air mail radio station, KBLHM.	Live stock receipts (code)..... Live stock Chicago (code)..... do..... Live stock, Kansas City..... Live stock, Omaha, Neb.	Federal..... do..... do..... do..... do.....	Central time. 9:30 a. m. 12:00 noon.... 5:00 p. m. 8:30 p. m. 8:30 p. m.	Telegraph, 4000 meters, are unslashed. Do. Do. Do.
Omaha, Neb.: Air mail radio station, KDEF.	Live stock receipts (code)..... Live stock, Chicago (code)..... Live stock, Omaha (code)..... Live stock, Kansas City (code)..... Grain, Omaha (code)..... Live stock, Chicago..... Live stock, Kansas City..... Live stock, Omaha.....	do..... do..... do..... do..... do..... do..... do..... do.....	9:00 a. m. 11:00 a. m. 12:00 noon.... 1:00 p. m. 2:00 p. m. 4:30 p. m. 7:00 p. m. 7:30 p. m.	Telegraph. 2500 meters, are unslashed. Do. Do. Do. Do. Do.

Federal, State, and private broadcasting stations -Continued.

Name and call letters of station.	Nature of reports.	Source.	Time of transmission.	Type of transmission.
Pittsburgh, Pa.: (East Pittsburgh) Westinghouse Electric Manufacturing Co., KDKA.	Fruit and vegetable (Pittsburgh); live stock (Chicago), grain, Chicago, hay and feed.	Federal..... Local.....	Eastern time, 7:45 p. m..... 7:45 p. m.....	Phone, Do.
Reno, Nev.: Air mail radio station, KDKX.	Live stock receipts (code), Live stock, Chicago (code).	Federal..... do.....	Pacific time, 9:00 a. m..... 1:00 p. m.....	Telegraph. Broadcasters are undamped.
Richmond, Ind.: Palladium Printing Co., WOZ.	Indianapolis market, Weather forecast, Complete market report, Weather, local news, traffic.	Local..... Federal..... Local..... Federal and local.	Central time, 4:00 noon..... 4:00 p. m..... 4:00 p. m..... 9:30 p. m.....	Phone, Do, Do, Do.
Rochester, N. Y.: Rochester Times Union, WHQ.	New York State market reports.	State.....	Eastern time, 7:45 p. m.....	Do.
Roxbury Springs, Wyo.: Air mail radio station KDHN.	Live stock receipts (code), Live stock, Chicago (code), Live stock, Chicago, Live stock, Kansas City, Live stock, Omaha.	Federal..... do..... do..... do.....	Mountain time, 9:00 a. m..... 12:00 noon..... 4:30 p. m..... 8:30 p. m..... 8:30 p. m.....	Telegraph. 3000 meters are undamped, Do, Do, Do.
Schenectady, N. Y.: General Electric Co., WGY.	New York City market fruit and vegetables, butter, eggs, poultry, hay, and country dressed meat.	State.....	Eastern time, 7:00 p. m.....	Phone.
St. Louis, Mo.: St. Louis University, WEW.	Market reports, live stock receipts, St. Louis and Chicago live opening feeds, St. Louis and Kansas City opening, trend of market, Liverpool cables, Fruit and vegetable Chicago yesterday, live stock, St. Louis close, closing grain market, Market reports Saturday, Merchants Exchange reports, opening future market, Future market receipts and shipments, Future market, Closing future market each grain price.	Federal..... do..... do..... do..... do..... do..... do..... do..... do..... do.....	Central time, 10:15 a. m..... 10:15 a. m..... 2:15 p. m..... 1:00 p. m..... 8:45 a. m..... 8:45 a. m..... 8:45 a. m..... 10:45 a. m..... 11:45 a. m..... 12:15 p. m.....	Do, Do, Do, Do, Do, Do, Do, Do, Do, Do.
Stix-Bader & Poller Co., WKE.	Weather forecast, Massachusetts State market reports.	Federal..... State.....	Eastern time,	Do, Do.
Springfield, Mass.: Westinghouse Electric & Manufacturing Co., WJZ.	Weather forecast.	Federal.....	Mountain time, 1:30 a. m.....	Do.
State College, N. Mex.: New Mexico College of Agriculture and Mechanical Arts, KOB.	Time signals, Weather forecast, Crop reports, Music and entertainment etc.	Federal..... do..... do..... Local.....	Mountain time, 1:30 a. m..... 2:30 p. m..... 3:30 p. m..... 8:30 p. m.....	Do, Do, Do, Do.
Tampa, Fla.: Tampa Daily Times, WTAE.	Information not available.		Eastern time,	Do.
Toledo, Ohio: The William E. Datak Co., WHU.	Grain market (Toledo), Live stock and vegetables, Basketball and news, Musical entertainment Tuesday and Thursday.	State..... do..... do..... Local.....	Eastern time, 9:45-12:50 a.m. and 1:45, 2:45 p. m., 3:00 p. m., 9:00 p. m.....	Do, Do, Do, Do.
Tulsa, Okla.: Midland Refining Co., WAK.	Live stock reports, Weather forecast, Concerts (not regular).	Federal..... do..... Local.....	Central time, 10:30 a. m. and 1:30 p. m., 10:30 a. m. and 8:30 p. m., 7:45 p. m.....	Do, Do, Do.

Federal, State, and private broadcasting stations—Continued.

Name and call letters of station.	Nature of reports.	Source.	Time of transmission.	Type of transmission.
University Place, Neb.: Nebraska Wesleyan University, WCAJ.	Weather forecast and news..... Omaha live stock, Chicago grain (code and press). Concerts, lectures, etc., Tuesday and Thursday.	Federal and local.	Central time. 8:30 a. m..... 4:00 p. m. daily 12:15 p. m. Saturday 9:30 p. m.....	Phone. Do. Do.
Washington, D. C.: Post Office Department air mail radio station, WWX.	Fruit and vegetable (Washington, D. C.). Live stock reports and St. Louis and Chicago hog opening (code). Live stock, Chicago and St. Louis (code trade). Crop reports and special market news. General fruits and vegetables..... Dairy products, New York and Chicago (code). Grain..... Live stock and grain (code). Fruit and vegetables.....	Federal..... do..... do..... do..... do..... do..... do..... do..... do..... do.....	10:30 a. m..... 12:30 p. m. 2:15 p. m. 3:00 p. m. 3:30 p. m. 5:00 p. m. 5:30 p. m. 7:30 p. m. 8:00 p. m.	Phone, 1180 Wheels. Do. Do. Do. Do. Do. Do.
Wichita, Kans.: The Ceramic Co., WEY.	Board of trade reports, information.....	do.....	Phone.

¹ Not broadcasted on Saturday from June 13 to Sept. 15.

Note.—When no item number is indicated a straight copy is used.

INTERDEPARTMENT ADVISORY COMMITTEE ON GOVERNMENTAL RADIO BROADCASTING.

At the request of the Secretary of Commerce each of the 10 Government departments have appointed representatives on an Interdepartment Advisory Committee on Governmental Radio Broadcasting. There are, in addition, representatives of the office of the chief coordinator, Bureau of the Budget, and the United States Shipping Board. The membership of the committee is as follows: Agriculture, W. A. Wheeler, Radio Development Section; Commerce, Dr. S. W. Stratton, director, Bureau of Standards; Interior, O. P. Hood, chief mechanical engineer, Bureau of Mines; Justice, S. Ely, chief clerk; Labor, A. E. Cook, office of the Secretary; Navy, Commander D. C. Bingham, Naval Communication Service; Post Office, J. C. Edgerton, air mail division; State, W. S. Rogers, International Communications Conference; Treasury, L. J. Heath, Public Health Service; War, Maj. Gen. G. O. Squier, chief signal officer; Chief Coordinator, Capt. H. P. Perrill, assistant coordinator, Bureau of the Budget; United States Shipping Board Emergency Fleet Corporation, F. F. Guthrie, head of radio division, operating department.

The chairman of the committee is Dr. S. W. Stratton and the secretary is Dr. J. H. Dellinger, chief of the radio laboratory, Bureau of Standards, Department of Commerce. In accordance with recommendations of the committee an experimental system of Government broadcasting by "primary" broadcast stations has been established, utilizing only previously existing Government stations and equipment. The "primary" stations are stations which broadcast official Government news by continuous wave (code) telegraphy for the purpose of furnishing this information to local broadcast stations for rebroadcasting by radiophone. The eight stations thus far included send out daily bulletins of Government news, mostly agricultural market data. They are: Arlington, Va. (Navy, 5950 meters), Great Lakes, Ill. (Navy, 4900 meters), Washington, D. C. (Post Office, 1950 meters), Omaha, Nebr. (Post Office, 2500 meters), North Platte, Nebr. (Post Office, 4000 meters), Rock Springs, Wyo. (Post Office, 3000 meters), Elko, Nev. (Post Office, 3000 meters), Reno, Nev. (Post Office, 3200 meters).

The committee has made a preliminary classification of the kinds of material which the several departments may have to broadcast by the primary stations, namely, market prices and data, weather and hydrographic news, standard radio signals (such as wave length and time signals), executive announcements, statistics, and educational material. One of the functions of the committee is to advise regarding priority of the types of Government material to be broadcasted and regarding schedules of operation.

The committee has recognized the principle that radio must be used, primarily, for types of service that can not be as satisfactorily given by other means of communication, and that therefore radio broadcasting should not be used in general where wire telegraphy or telephony or printed publication would be as satisfactory. It is possible that the scope of the committee's activities may be extended beyond the subject of broadcasting, and that the committee will act in an advisory capacity to the Secretary of Commerce in matters of Government radio regulation and will consider all radio questions of interdepartmental interest.

—Submitted by Bureau of Standards.

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