

How "Electronic Hearts" Now Save Lives!

CC
APC

RADIO-TV EXPERIMENTER

**WHITE'S
RADIO
LOG**



AM-FM-TV STATIONS
WORLD-WIDE
SHORT-WAVE LISTINGS

AUG. - SEPT. 75¢

**BUILD THIS 3-TRANSISTOR
SHORT-WAVE SET: \$14**

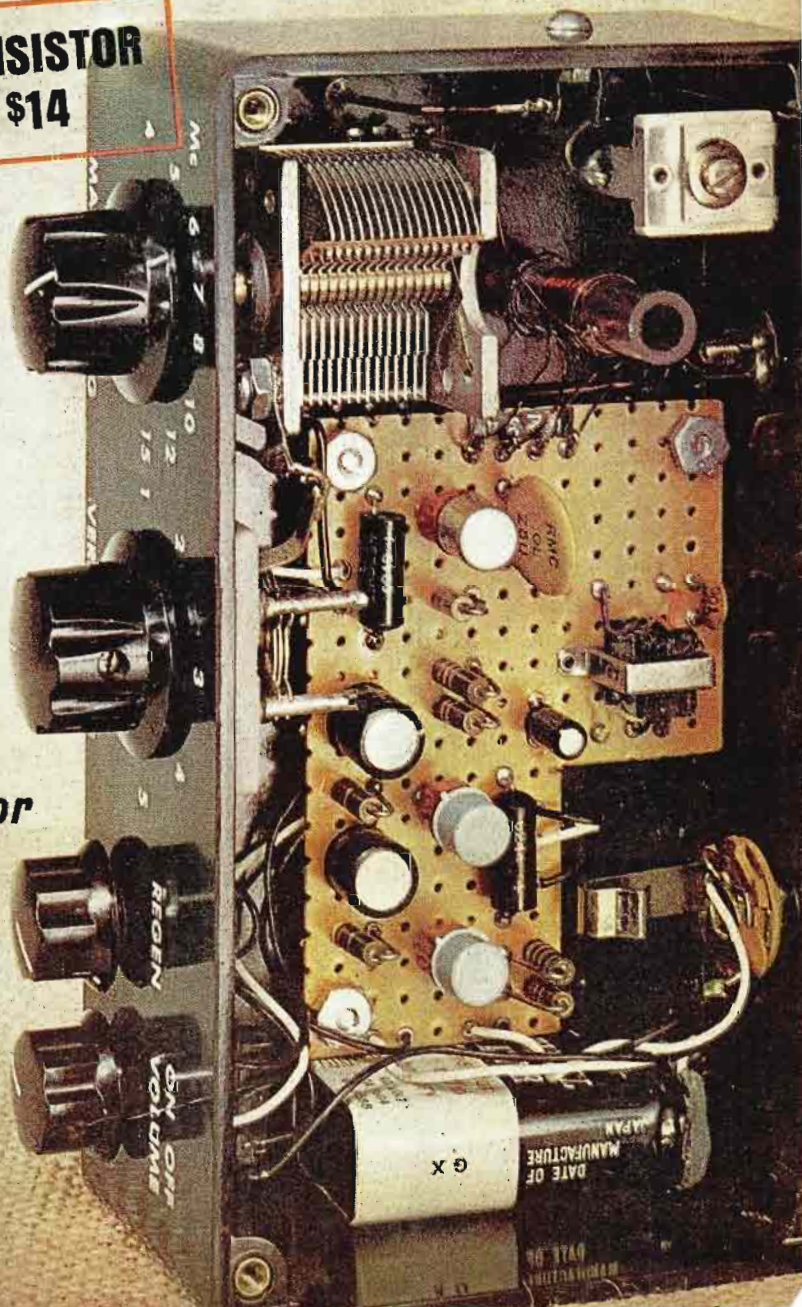
*Electronics
Guide to
the Fair!*

PLANS FOR:

- \$2.50 CB Booster**
- \$7 Scope Calibrator**
- \$4 SCR Dimmer**

TEST REPORTS:

- Shure V-15 15°
Stereo Cartridge**
- Goodmans Maximus I
Speaker System**



NOW... Courier 23

WITH

RANGE BOOST



23 CHANNELS
24 ~~23~~ FEATURES

DUAL CONVERSION • TRANSISTOR POWER SUPPLY

Still

\$189.50

slightly higher west of Rockies

including all crystals, mounting brackets, power cords and noise-cancelling microphone

Send for details . . .

Name

Address

City State



EGI electronics communications, inc.

dept. RTV8, 56 hamilton ave., white plains, n. y.

World famous manufacturers of quality CB & BB equipment including Courier 1M, Courier 23, Courier-12, Courier 30B, Courier 50 FM, Port-A-Lab, Transistorized Power Supply, Linear Amplifier.

**FOR EXTRA INCOME,
A JOB SKILL
IN DEMAND,
A BUSINESS OF YOUR
OWN—OR TO SAVE
MONEY ON YOUR OWN
APPLIANCE REPAIRS**

SEND FOR FREE BOOKS

Appliance Division, Dept. 505-085, National Radio Institute
3939 Wisconsin Avenue NW, Washington, D.C. 20016

Send me the illustrated free book that tells about opportunities in Professional Appliance Servicing and details of NRI's new course—plus a sample lesson. I understand there is no obligation and no salesman will call.

Name _____ Age _____

Address _____

City _____ Zone _____ State _____

Accredited Member National Home Study Council



**SEND COUPON
FOR THESE
FREE
BOOKS**

A new, short, easy course trains you at home

Now you can prepare quickly to do professional appliance servicing at home in your spare time.

You are ready to start servicing appliances after only a few lessons. The entire course can be finished in months.

This is the *fastest* way to a new job skill or extra income or a business of your own. Wherever you live or want to live, you'll find a demand for top-notch appliance servicemen.

There are probably thousands of broken appliances right in your neighborhood. These can mean cash profits for you.

This new, low cost course covers—

- Small and large home appliances
- Farm and commercial equipment
- Portable electric tools
- Small gasoline engines

—there is even a special course arrangement to prepare you for the field of air conditioning and refrigeration.

Special equipment is included in your course at no extra cost.

Send coupon or write to Dept. 505-085



APPLIANCE DIVISION, NATIONAL RADIO INSTITUTE
3939 Wisconsin Avenue NW, Washington, D.C. 20016

RADIO-TV EXPERIMENTER

Cover Photo
by Don Lothrop

**NOW THERE ARE
55 RADIO SHACKS
COAST TO COAST**

August-September 1965 CONTENTS/INDEX ☆Cover Highlights	Feature	Theory	Construction	Ham/CB/SWL	Audio/Hi-Fi	AM/FM/TV	Test Bench	Related Subjects
☆Electronics at the Fair.....6	•			•	•	•		•
☆Electronics Goes to Your Heart...35	•	•						•
☆Neophyte's DX'er Receiver.....40		•	•	•				
Electronics Aweigh.....44	•							•
Foreign Tube Replacement Guide..46	•	•			•	•	•	
☆Oscillobrator.....47		•	•					•
Switches from Eyelets/Cardboard..50	•		•				•	
Snap That TV Pic.....52	•					•		•
Build Her for Dinner.....53	•							•
☆Lab Check—Maximus 1.....55	•	•			•		•	
☆Lab Check—Shure V-15.....57	•	•			•		•	
☆SCR Lamp Dimmer.....59		•	•					•
Choosing & Using Diodes.....61		•	•					•
Secrets of Short-Wave Success....67	•			•				
Writing Music with Electrons.....70	•				•			•
Propagation Forecast.....72	•	•		•				
☆Ham/CB Voice Shaper (Booster).73		•	•	•				
Build the Safe-Lite.....76		•	•					•
Aluminum Storm Window Antenna.80		•	•			•		
Automatic Heat Control.....81		•	•				•	
Tenna Tuner.....84		•	•	•				

WHITE'S RADIO LOG, Vol. 44, No. 1—Page 91

DEPARTMENTS • Bookmark 20 • Ask Me Another 22 • CB Column 27
New Products 30 • Literature Library 86 • Classified Ads 89

CALIFORNIA

BAKERSFIELD — 1308 19th St., 322-8448
LDS ANGELES (Downey) — Stonewood Shop. Ctr.,
923-1709
SAN DIEGO (La Mesa) — Grossmont Shop. Ctr.,
455-4062
LONG BEACH — 127 W. 7th St., 432-3318
LONG BEACH — 3976 Atlantic Ave., 426-7514
OAKLAND (San Leandro) — Bay Fair Shop. Ctr.,
351-2990
SACRAMENTO — 600 Fulton Ave., 483-2707

CONNECTICUT

HAMDEN — Hamden Mart Shop. Ctr.
MANCHESTER — Manchester Shopping Parkade
NEW HAVEN — 92 York St., 787-7121
NEW LONDON — New London Shop. Ctr.
STAMFORD — 29 High Ridge Rd., 325-4371
WEST HARTFORD — 39 So. Main St., 236-5441

ILLINOIS

CHICAGO — Evergreen Plaza at 95th St., 636-9796

MAINE

PORTLAND — Pine Tree Shop. Ctr., 773-7071

MASSACHUSETTS

BOSTON — 167 Washington St., 523-4719
BOSTON — 594 Washington St., 426-3431
BOSTON — 110 Federal St., 426-3997
BRAintree — South Shore Plaza, 843-9200
BROOKLINE — 730 Commonwealth Ave., 734-1000
CAMBRIDGE — Fresh Pond Shop. Ctr., 491-2925
FRAMINGHAM — Shoppers' World, 872-6569
LOWELL — Central Shop. Plaza, 455-5469
SAUGUS — N. E. Shop. Ctr., 233-5350
SPRINGFIELD — 1182 Main St., 734-2189
WEST SPRINGFIELD — Century Shop. Ctr., 732-4433
WORCESTER — Lincoln Plaza, 757-9030

MINNESOTA

ST. PAUL — 16 E. 6th St., 222-4801

NEW HAMPSHIRE

MANCHESTER — 1247 Elm St., 669-1303

NEW MEXICO

ALBUQUERQUE — 6315 Lomas, N.E., 268-5722

NEW YORK

NEW YORK — 1128 Ave. of the Americas, 687-4482
SYRACUSE — 3057 Erie Blvd. East, 446-4890

OHIO

CINCINNATI — 852 Swifton Ctr., 631-4570

OKLAHOMA

OKLAHOMA CITY — Mayfair Shop. Ctr.
TULSA — 317 South Detroit St., 582-3401

PENNSYLVANIA

PHILADELPHIA — 2327G Cottman Ave.,
Roosevelt Mall, 338-4711
PHILADELPHIA — 1128 Walnut St., 923-2198

RHODE ISLAND

CRANSTON — 1301 Reservoir Ave., 942-6600
EAST PROVIDENCE — Shoppers' Town, 434-5672

TEXAS

ARLINGTON — Collins at Park Row
DALLAS — 1601 Main St., 741-6279
DALLAS — Medallion Center, 363-6236
DALLAS — 125 Wynnewood Village, 948-3201
FORT WORTH — 1515 So. Univ. Dr., 335-4705
FORT WORTH — 900 East Berry St., 927-7828
FORT WORTH — 3524 East Denton Highway,
831-1951

HOUSTON — 2315 Travis St., 523-0871
HOUSTON — 322 Northline Mall, 687-7914
HOUSTON (Bellaire) — 4759 Bissonnet, 667-5190
SAN ANTONIO — Wonderland Ctr., 735-9161
SHERMAN — 1620 Highway 75 North, 892-6553
WACO — 1016 Austin Ave., 752-7739

VIRGINIA

ARLINGTON — Washington-Lee Shop. Ctr., 524-5422

WASHINGTON

SEATTLE — 2028 Third Ave., 682-5280
SEATTLE — 837 N.E. 110th St., 364-8670

RADIO-TV EXPERIMENTER

WHITE'S RADIO LOG

Volume 44, No. 1

An up-to-date Broadcasting Directory of North American AM, FM and TV Stations. Including a Special Section on World-Wide Short-Wave Stations

In this issue of *White's Radio Log* we have included the following listings: U.S. AM Stations by Frequency, Canadian AM Stations by Frequency, U.S. Commercial Television Stations by States, U.S. Educational Television Stations by States, Canadian Television Stations by Cities, and the World-Wide Short-Wave Stations.

In Our Next Issue. October-November, 1965, the *Log* will contain the following listings: U.S. AM Stations by Location, U.S. FM Stations by States, Canadian AM Stations by Location, Canadian FM Stations by Location, Mexican and Cuban AM Stations by Location, and the expanded Short-Wave Section. The short-wave listings will always be completely revised in each issue of *Log* to insure 100% up-to-date information.

In the December-January issue of RADIO-

TV EXPERIMENTER, the *Log* will contain the following listings: U.S. AM Stations by Call Letters, U.S. FM Stations by Call Letters, Canadian AM Stations by Call Letters, Canadian FM Stations by Call Letters, and the expanded Short-Wave Section.

Therefore, in any three consecutive 1965 issues of RADIO-TV EXPERIMENTER magazines, you will have a complete cross-reference listings of *White's Radio Log* that is always up-to-date. The three consecutive issues are a complete volume of *White's Radio Log* that offers up to the minute listings that can not be offered in any other magazine or book. If you are a broadcast band DX'er, FM station logger, like to photograph distant TV test patterns, or tune the short-wave bands, you will find the new *White's Radio Log* format an unbeatable reference. ■

QUICK REFERENCE INDEX

U.S. AM Stations by Frequency.....	92
Canadian AM Stations by Frequency.....	102
U.S. Commercial Television Stations by States....	103
U.S. Educational Television Stations by States....	105
Canadian Television Stations by Cities.....	106
World-Wide Short-Wave Stations.....	106

WHITE'S RADIO LOG

U.S. AM Stations by Frequency

U. S. stations listed alphabetically by states within groups. Abbreviations: Kc., frequency in kilocycles; W.P., watt power; d—operates daytime only. Wave length is given in meters.

Kc.	Wave Length	W.P.	Kc.	Wave Length	W.P.	Kc.	Wave Length	W.P.	Kc.	Wave Length	W.P.
540—555.5			WBAP Ft. Worth, Tex.	5000	KAVL Lancaster, Calif.	1000	680—440.9				
KVIP Redding, Calif.	5000d		KLUB Salt Lake City, Utah	5000	KFRS San Francisco, Calif.	5000	KNBR San Fran., Calif.	5000d			
KFMB San Diego, Calif.	5000		KVI Seattle, Wash.	5000	WTOR Torrington, Conn.	250	WPIN St. Petersburg, Fla.	1000d			
WGTO Cypress Gardens, Fla.	5000d		WMAM Marinette, Wis.	5000	WIOD Miami, Fla.	5000	WCTT Corbin, Ky.	1000			
550—545.1			580—516.9		WMEL Pensacola, Fla.	5000	WCBM Baltimore, Md.	1000d			
WDAK Columbus, Ga.	5000		WABT Tuskegee, Ala.	500d	WCEH Hawkinsville, Ga.	5000	WACB Boston, Mass.	5000d			
KBRV Soda Springs, Idaho	5000d		KTAN Tucson, Ariz.	5000	KUAM Agana, Guam	1000	WDBE Escanaba, Mich.	1000d			
KWMT Ft. Dodge, Iowa	5000d		KMJ Fresno, Calif.	5000	WRUS Russellville, Ky.	5000	KEEQ St. Joseph, Mo.	5000			
KNOE Monroe, La.	5000		KUBC Montrose, Colo.	5000	KDAL Duluth, Minn.	5000	WVNR Binghamton, N.Y.	1000			
WDMV Peemoeke City, Md.	5000d		WDBO Orlando, Fla.	5000	WDAF Kansas City, Mo.	5000	WRVM Rochester, N.Y.	250d			
WBIC Islip, N.Y.	250d		WGAC Augusta, Ga.	5000	KOJM Hays, Mont.	1000	WPTF Raleigh, N.C.	5000d			
WETC Wendell-Zebulon, N.C.	250d		KFKL Nampa, Idaho	5000	KCSR Chadron, Nebr.	1000d	WISR Butler, Pa.	250d			
WARO Canonsburg, Pa.	250d		WILL Urbana, Ill.	5000d	WGR Manchester, N.H.	5000	WAPA San Juan, P.Rico.	1000d			
WYNN Florence, S.C.	250d		KSAC Manhattan, Kans.	5000	KGGM Albuquerque, N.Mex.	5000	WMP5 Memphis, Tenn.	1000d			
WDXN Clarksville, Tenn.	1000d		WIBW Topeka, Kans.	5000	WAYS Charlotte, N.C.	5000	KBAT St. Antonio, Tex.	5000			
WRIC Richlands, Va.	1000d		KALB Alexandria, La.	5000	WTVN Columbus, Ohio	5000	KOMW Omak, Wash.	5000d			
WYLO Jackson, Wis.	250		WTAG Worcester, Mass.	5000	WTP Philadelphia, Pa.	5000	WCAW Charleston, W.Va.	1000d			
550—545.1			WELO Tupelo, Miss.	1000	KNVU Logan, Utah	5000					
KENI Anchorage, Alaska	5000		KANA Anaconda, Mont.	1000	WLSL Roanoke, Va.	5000	690—434.5				
KOY Phoenix, Ariz.	5000		WAGR Lumberton, N.C.	1000	WHPL Winchester, Va.	500	WVOK Birmingham, Ala.	5000d			
KAFY Bakersfield, Calif.	1000		KWIN Ashland, Oreg.	500	KEPR Kennebec-Richland-Paseo, Wash.	5000	KEOS Flagstaff, Ariz.	1000			
KRAI Craig, Colo.	1000		WHP Harrisburg, Pa.	1000	620—483.6		KEVT Tucson, Ariz.	250d			
WAYR Orange Park, Fla.	1000d		WKAQ San Juan, P.R.	500d	KTAR Phoenix, Ariz.	5000	KBBA Benton, Ark.	250d			
WGGA Gainesville, Ga.	5000		KOBH Hot Springs, S.Dak.	500d	KNGS Hanford, Calif.	1000	KAPI Pueblo, Colo.	250d			
KMVI Wailuku, Hawaii	1000		WRKH Rockwood, Tenn.	1000d	KWSD Mt. Shasta, Calif.	1000d	WADS Ansonia, Conn.	500			
KFRM Concordia, Kansas	5000d		KDAY Lubbock, Tex.	500d	WFT Grand Junction, Colo.	5000	WAPE Jacksonville, Fla.	5000d			
WCB1 Columbia, Miss.	1000d		WLES Lawrenceville, Va.	500d	WSUN St. Petersburg, Fla.	5000	KULA Honolulu, Hawaii	5000d			
KSD St. Louis, Mo.	5000		WCHS Charleston, W.Va.	5000	WTRP LaGrange, Ga.	1000d	KBLL Blackfoot, Idaho	1000d			
KBOW Butte, Mont.	1000		WKTY LaCross, Wis.	5000	KWAL Wallace, Idaho	1000	KGGF Coffeyville, Kans.	1000d			
WGR Buffalo, N.Y.	5000		590—508.2		KMNS Sioux City, Iowa	1000	WTIX New Orleans, La.	5000			
WDBM Statesville, N.C.	500d		KHAR Anchorage, Alaska	5000	WTMT Louisville, Ky.	500d	KCTR Minneapolis, Minn.	5000			
KFYR Bismarck, N.Dak.	5000		WRAG Carrollton, Ala.	1000d	WLBB Bangor, Maine	5000	KSTL St. Louis, Mo.	1000d			
WKRC Cincinnati, Ohio	5000		KBHS Hot Springs, Ark.	5000d	WJDX Jackson, Miss.	5000	KYR Terrytown, Neb.	1000			
KOAC Corvallis, Oreg.	1000		KFXM San Bernardino, Cal.	1000d	WJFK Newark, N.J.	5000	KFO Pinoyville, Oreg.	1000d			
WHLM Bloomsburg, Pa.	1000		KTHO Tahoe Valley, Calif.	1000d	WHEN Syracuse, N.Y.	5000	KXUR Media, Pa.	500d			
WPAB Ponce, P.R.	5000		KCSJ Pueblo, Colo.	1000	WDNC Durham, N.C.	5000	WZD Vermillion, S.Dak.	1000d			
WCTR Pawtucket, R.I.	1000		WDLF Panama City, Fla.	1000	KGW Portland, Oreg.	5000	KHEY El Paso, Tex.	1000d			
WXRS Midland, Tex.	5000		WPLD Atlanta, Ga.	5000	WHJB Greensburg, Pa.	1000	KPET Lamesa, Tex.	250			
KTSA San Antonio, Tex.	5000		KGMB Honolulu, Hawaii	5000	WCAY Cayce, S.C.	500d	KZEY Tyler, Tex.	1000d			
WDEV Waterbury, Vt.	5000		KID Idaho Falls, Idaho	5000	WATE Knoxville, Tenn.	5000	WCYB Bristol, Va.	1000d			
WVA Harrisonburg, Va.	5000		WBBY Wood River, Ill.	1000	WVFT Wichita Falls, Tex.	5000	WNMT Warsaw, Va.	250d			
KRRI Blaine, Wash.	5000		WVLK Lexington, Ky.	5000	WVMT Burlington, Vt.	5000	WELD Fisher, W.Va.	500d			
WSAU Wausau, Wis.	5000		WEE1 Boston, Mass.	5000	WVNR Beckley, W.Va.	1000	700—428.3				
560—535.4			WKZO Kalamazoo, Mich.	5000	WTMJ Milwaukee, Wis.	5000	WLW Cincinnati, Ohio	5000d			
WOOF Dathan, Ala.	5000d		KGLE Glendive, Mont.	5000	630—475.9		710—422.3				
KYUM Yuma, Ariz.	1000		WOW Omaha, Nebr.	5000	WAVU Albertville, Ala.	1000d	WKRG Mobile, Ala.	1000			
KSFO San Fran., Calif.	5000		WROW Albany, N.Y.	5000	WJDB Thomaston, Ala.	1000d	KMPC Los Angeles, Calif.	5000d			
KLZ Denver, Colo.	5000		WGTM Wilson, N.C.	5000	KJNO Juneau, Alaska	1000	KBTR Denver, Colo.	5000			
WQAM Miami, Fla.	5000		KUGN Eugene, Oreg.	5000	KVMA Magnolia, Ark.	1000d	WBS Miami, Fla.	5000			
WIND Chicago, Ill.	5000		WARM Seranton, Pa.	5000	KIDD Monterey, Calif.	1000	WROM Rome, Ga.	1000d			
WMIK Middlesboro, Ky.	500d		WABS Uniontown, Pa.	5000	KHOW Denver, Colo.	1000	KEEL Shreveport, La.	5000d			
WGAN Portland, Maine	5000		KTBC Austin, Tex.	1000	KMAL Washington, D.C.	5000	WHB Kansas City, Mo.	1000d			
WFRB Frostburg, Md.	1000		KSUB Cedar City, Utah	1000	WNEG Toccoa, Ga.	5000	WOR New York, N.Y.	5000d			
WHYN Springfield, Mass.	1000d		WLVA Lynchburg, Va.	1000	KIDO Boise, Idaho	5000	DZRH Manila, P.I.	1000d			
WQTE Monroe, Mich.	500d		KHQ Spokane, Wash.	5000	WLAP Lexington, Ky.	5000	WKJB Mayaguez, P.Rico	1000			
WBCS Duluth, Minn.	5000		600—499.7		KTIB Thibodaux, La.	500d	WTPR Paris, Tenn.	250d			
KWTO Springfield, Mo.	5000		WIRE Enterprise, Ala.	1000	WMS Ironwood, Mich.	1000	KGNC Amarillo, Tex.	1000d			
KMON Great Falls, Mont.	5000		KCLS Flagstaff, Ariz.	5000	KWB So. St. Paul, Minn.	5000	KURV Edinburg, Tex.	250			
WGA1 Elizabeth City, N.C.	1000		KVCY Redding, Calif.	1000	KXOK St. Louis, Mo.	5000	KIRO Seattle, Wash.	5000d			
WFIL Philadelphia, Pa.	5000		KOGO San Diego, Calif.	5000	KGWV Belgrade, Mont.	1000d	WDSM Superior, Wis.	5000			
WIS Columbia, S.C.	5000		KZIX Ft. Collins, Colo.	1000d	KOH Reno, Nev.	5000	720—416.4				
WHBQ Memphis, Tenn.	5000		WICC Bridgeport, Conn.	5000	KLEA Lovington, N.Mex.	5000	KUAI Eleele, Kanai, Hawaii				
KLVI Beaumont, Tex.	5000		WPDQ Jacksonville, Fla.	5000	WIRC Hickory, N.C.	1000d	WGN Chicago, Ill.	5000d			
KPQ Wenatche, Wash.	5000		WMT Cedar Rapids, Iowa	5000	WTFD Wilmington, N.C.	1000	730—410.7				
WJLS Beckley, W.Va.	5000		WWM New Orleans, La.	1000d	KWRD Coquille, Oreg.	5000d	WJMW Athens, Ala.	1000			
570—526.0			WFST Caribou, Maine	5000d	WJL Seranton, Pa.	500d	KFQD Anchorage, Alaska	1000d			
WAAX Gadsden, Ala.	5000		WCAQ Baltimore, Md.	5000	WKYN San Juan, P.R.	5000	KSUD W. Memphis, Ark.	250d			
KCNO Alturas, Calif.	5000		WLST Escanaba, Mich.	1000d	KGFX Pierre, S. Dak.	200d	WLR Thomasville, Ga.	5000d			
KLAC Los Angeles, Calif.	5000		WTAC Flint, Mich.	1000	KMAC San Antonio, Tex.	5000	KLOE Goodland, Kans.	1000d			
WGMS Washington, D.C.	5000		KGZ Kallsport, Mont.	1000	KSXK Salt Lake City, Utah	1000d	WFMW Madisonville, Ky.	500			
WFO Pinellas Park, Fla.	5000		WVCP Murphy, N.C.	1000d	KGDN Edmonds, Wash.	5000d	WMTG Van Cleve, Ky.	1000d			
WACL Waycross, Ga.	5000		WSJS Winston-Salem, N.C.	5000	KZUN Opportunity, Wash.	500d	KTRY Bastrop, La.	1000d			
WKYX Paducah, Ky.	5000		KSJB Jamestown, N.D.	5000	640—468.5		WAB Covington, La.	250d			
WVMI Biloxi, Miss.	1000d		WSSM Salem, O.	5000	KFI Los Angeles, Calif.	5000d	WTO Bath, Maine	1000d			
KGRT Las Cruces, N.Mex.	5000d		WFRM Coudersport, Pa.	1000d	WOI Ames, Iowa	5000d	WACE Chicopee, Mass.	5000d			
WMCA New York, N.Y.	5000		WAEI Mayaguez, P.R.	1000d	WHLO Akron, Ohio	1000	WVIC E. Lansing, Mich.	1000d			
WYSR Syracuse, N.Y.	5000		WREC Memphis, Tenn.	5000	WNAD Norman, Okla.	1000d	KWRE Warrenton, Mo.	1000d			
WVNC Asheville, N.C.	5000		KROD El Paso, Tex.	5000	650—461.3		KWOA Worthington, Minn.	1000d			
WLLE Raleigh, N.C.	500d		KERB Kermit, Tex.	1000d	KORL Honolulu, Hawaii	1000d	KURL Billings, Mont.	500d			
WKBN Youngstown, Ohio	5000		KTBB Tyler, Tex.	1000	WSM Nashville, Tenn.	5000d	KVOD Albuquerque, N.Mex.	1000d			
WNAX Yankton, S.Dak.	5000		610—491.5		KIKK Pasadena, Texas	250d	WDS Oseonta, N.Y.	1000d			
WFAA Dallas, Tex.	5000d		WSGN Birmingham, Ala.	5000	660—454.3		WFMG Goldsboro, N.C.	1000d			
			KFAR Fairbanks, Alaska	5000	KOWH Omaha, Neb.	5000d	WHS Shelby, N.C.	1000d			
					WNBC New York, N.Y.	5000d	WBSG Bowling Green, Ohio	1000d			
					WESC Greenville, S.C.	1000d	KBOY Medford, Oreg.	1000d			
					KSKY Dallas, Tex.	1000	WNAK Nanticoke, Pa.	1000d			
					670—447.5		WPIT Pittsburgh, Pa.	5000d			
					KBOI Boise, Ida.	5000d	WPAL Charleston, S.C.	1000d			
					WMAQ Chicago, Ill.	5000d	WLIL Lenoir, Tenn.	1000d			
							KFCN Grand Prairie, Tex.	500d			
							KSVN Ogden, Utah	1000d			
							WPJK Alexandria, Va.	5000d			
							WMNA Gretna, Va.	1000d			
							KULE Ephrata, Wash.	1000d			
							WXMT Merrill, Wis.	1000d			

Every effort has been made to ensure accuracy of the information listed in this publication, but absolute accuracy is not guaranteed and, of course, only information available up to press-time could be included. Copyright 1965 by Science & Mechanics Publishing Co., a subsidiary of Davis Publications, Inc., 505 Park Avenue, New York, New York 10022.

WHITE'S RADIO LOG

Kc. Wave Length W.P.

940—319.0

KHOS Tucson, Ariz. 250
KFRE Fresno, Calif. 50000
WINE Brookfield, Conn. 10000
WINZ Miami, Fla. 50000
WMAZ Macon, Ga. 50000
KAHU Waipahu, Hawaii 10000
WMIX Mt. Vernon, Ill. 50000
KIOA Des Moines, Iowa 10000
WCND Shelbyville, Ky. 10000
WYLD New Orleans, La. 10000
WJOR South Haven, Mich. 10000
WPCP Houston, Miss. 50000
KSWM Aurora, Mo. 5000
KVSH Valentine, Nebr. 50000
WFNC Fayetteville, N.C. 10000
WCND Shelbyville, N.Y. 2500
WCIT Lima, Ohio 2500
KGRB Bend, Ore. 10000
KWRC Woodburn, Ore. 10000
WESA Charleroi, Pa. 2500
WGRF Greenville, Pa. 10000
WIFR San Antonio, P.R. 10000
KIXZ Amarillo, Tex. 10000
KTON Belton, Tex. 10000
KATQ Texarkana, Tex. 10000
WNRG Grundy, Va. 50000
KQOT Yakima, Wash. 2500
WFAW Ft. Atkinson, Wis. 250

950—315.6

WRMA Montgomery, Ala. 10000
KIBH Seward, Alaska 10000
KXJK Forest City, Ark. 50000
KFSA Ft. Smith, Ark. 1000
KAHI Auburn, Calif. 50000
KIMN Denver, Colo. 5000
WLOF Orlando, Fla. 50000
WGTA Summerville, Ga. 50000
WGOV Valdosta, Ga. 5000
KBOI Boise, Idaho 5000
KLER Orofino, Idaho 10000
WAAF Chicago, Ill. 10000
WXLW Indianapolis, Ind. 50000
KQEL Oelwein, Ia. 5000
KRGW Newton, Kans. 5000
WBVL Barboursville, Ky. 10000
WAGM Presque Isle, Maine 5000
WXLN Potomac-Cabin John, Md. 50000
WORLD Boston, Mass. 50000
WWJ Detroit, Mich. 5000
KRST St. Louis Park, Minn. 10000
WBKH Hattiesburg, Miss. 50000
KLIK Jefferson City, Mo. 50000
WHVV Hyde Park, N.Y. 5000
WBBF Rochester, N.Y. 10000
WIBX Utica, N.Y. 5000
WPET Greensboro, N.C. 50000
KYES Roseburg, Ore. 10000
WNCC Barnesboro, Pa. 5000
WPN Philadelphia, Pa. 5000
WBER Monks Corner, S. C. 5000
WSPA Spartanburg, S. C. 5000
KWAT Watertown, S. Dak. 1000
WAGG Franklin, Tenn. 10000
KDSX Denison-Sherman, Tex. 500
KPRC Houston, Tex. 5000
KSEL Lubbock, Tex. 5000
WXGI Richmond, Va. 50000
KMER Kemmerer, Wash. 1000
KJR Seattle, Wash. 5000
WERL Eagle River, Wis. 10000
WKAZ Charleston, W. Va. 5000
WKTS Sheboygan, Wis. 5000
KMER, Kemmerer, Wyo. 1000

960—312.3

WBRC Birmingham, Ala. 5000
WMOZ Mobile, Ala. 1000
K00L Phoenix, Ariz. 5000
KAVR Apple Valley, Calif. 50000
KNEZ Lopez, Calif. 5000
KABL Oakland, Calif. 5000
WELI New Haven, Conn. 5000
WGRO Lake City, Fla. 5000
WJGN Sebring, Fla. 10000
WJAZ Albany, Ga. 5000
WRFCA Athens, Ga. 5000
KSRSA Salmon, Idaho 10000
WDLM E. Moline, Ill. 10000
WSBT South Bend, Ind. 5000
KMA Shenandoah, Iowa 5000
WPRF Prestonsburg, Ky. 50000
KWOT Abbeville, La. 10000
WB0C Salisbury, Md. 5000
WFGM Fitchburg, Mass. 1000
WHAK Rogers City, Mich. 50000
KLTF Little Falls, Minn. 5000
WABG Greenwood, Miss. 1000

KFVS Cape Girardeau, Mo. 5000
KFLN Baker, Mont. 5000
KNEB Scottsbluff, Nebr. 1000
KWYK Farmington, N. Mex. 10000
KR1K Roswell, N. Mex. 10000
WEAV Plattsburg, N.Y. 5000
WAAK Dallas, N.C. 10000
WFTC Kingston, N.C. 5000
W0ST Superior, Ohio 10000
KGWA Enid, Okla. 1000
KLAD Klamath Falls, Ore. 50000
WHYL Carlisle, Pa. 50000
WADP Kane, Pa. 10000
WATS Sayre, Pa. 10000
WBEU Beaufort, S.C. 10000
WBMC McMinnville, Tenn. 5000
KIMP Mt. Pleasant, Tex. 10000
KGIL San Angelo, Tex. 5000
K0VO Provo, Utah 10000
WDBJ Roanoke, Va. 5000
KALE Richland, Wash. 10000
WTCB Shawano, Wis. 1000

970—309.1

WERH Hamilton, Ala. 50000
WTFB Troy, Ala. 5000
KVMW Show Low, Ariz. 10000
KNEA Jonesboro, Ark. 10000
KBIS Bakersfield, Calif. 1000
KCHC Coachella, Calif. 5000
KHEE Modesto, Calif. 10000
KFEEL Pueblo, Colo. 10000
WFLA Tampa, Fla. 5000
W11A Atlanta, Ga. 50000
WVOP Vidalia, Ga. 50000
KHBC Hilo, Hawaii 10000
KAYT Rupert, Idaho 10000
WMAV Springfield, Ill. 1000
WAYE Louisville, Ky. 5000
KSYA Alexandria, La. 1000
WCSH Portland, Maine 5000
WAMD Aberdeen, Md. 500
WESO Southbridge, Mass. 10000
W1AN Ishpeming, Mich. 50000
WHM Jackson, Mich. 1000
WAGQ Austin, Minn. 5000
K00K Britton, Mont. 5000
KJLT No. Platte, Nebr. 50000
KVEG Las Vegas, Nev. 5000
W1RZ Newark, N.J. 5000
KDCE Espanola, N. M. 10000
WBBR Buffalo, N.Y. 5000
WCHN Norwich, N.Y. 5000
WRCS Asheville, N.C. 10000
W1WT Canton, N.C. 10000
WDAY Fargo, N. Dak. 5000
WRES Ashabula, Ohio 5000
WATH Athens, Ohio 10000
KAKC Tulsa, Okla. 1000
K0IN Portland, Ore. 5000
WWSW Pittsburgh, Pa. 5000
W1MX Florence, S.C. 5000
W1TX Austin, Tex. 5000
KBSN Crane, Tex. 1000
KNOK Ft. Worth, Tex. 10000
W1VI Christiansted, V. I. 5000
WYPR Danville, Va. 1000
WANV Waynesboro, Va. 5000
KREM Spokane, Wash. 5000
W0WY Pineville, W. Va. 50000
WHA Madison, Wis. 50000
W1GL Superior, Wis. 5000

980—305.9

WKLF Clanton, Ala. 10000
WXLX Big Delta, Alaska 100
KCAP Danville, Ark. 10000
KINS Eureka, Calif. 5000
KEAP Fresno, Calif. 5000
KFWS Los Angeles, Calif. 5000
KCTY Salinas, Calif. 10000
KGLN Glennwood Springs, Colo. 10000
WSUB Groton, Conn. 10000
WRC Washington, D.C. 5000
WVH Gainesville, Fla. 50000
WTOT Marianna, Fla. 10000
WBOP Pensacola, Fla. 10000
WLOD Pompano Beach, Fla. 10000
WLDY Hartwell, Ga. 10000
WFGA Perry, Ga. 5000
W1RI Rossville, Ga. 5000
KUPI Idaho Falls, Idaho 10000
WITY Danville, Ill. 1000
KREB Shreveport, La. 50000
WCAP Lowell, Mass. 10000
WDMC Otego, Mich. 500
WPCB Minneapolis, Minn. 5000
WAPF McComb, Miss. 5000
KMBK Kansas City, Mo. 5000
KLVQ Hamilton, Mont. 10000
KVLV Fallon, Nev. 50000
KICA Clovis, N. Mex. 1000
KMIN Grants, N. Mex. 10000
WTRY Troy, N.Y. 5000
WKLW Wilmington, N.C. 5000
W1AA Norfolk, N.C. 5000
WONE Dayton, Ohio 5000
W1LK Wilkes-Barre, Pa. 5000
WZS Summerville, S.C. 5000
W1R1 Winnsboro, S.C. 5000

KDSJ Deadwood, S. Dak. 1000
WSIX Nashville, Tenn. 5000
KFRD Rosenberg-Richmond, Tex. 10000
KSVC Richfield, Utah 5000
WFHG Bristol, Va. 5000
WMEK Chase City, Va. 5000
KUTI Yakima, Wash. 50000
W1AW Weston, W. Va. 10000
WCBU Manitowoc, Wis. 10000
WPRE Prairie du Chien, Wis. 1000
KEND Cheyenne, Wyo. 1000

990—302.8

WEIS Center, Ala. 250
WWWF Fayette, Ala. 10000
WTCB Flomaton, Ala. 5000
KTKT Tucson, Ariz. 10000
KKIS Pittsburg, Calif. 5000
KGDV Santa Barbara, Calif. 10000
KLIR Denver, Colo. 10000
WBZY Torrington, Conn. 10000
W0AB Miami, Fla. 5000
W000 Orlando, Fla. 50000
W0VD Dawson, Ga. 10000
W0ML Hinesville, Ga. 2500
KTRG Honolulu, Hawaii 5000
WCAZ Carthage, Ill. 10000
WITZ Jasper, Ind. 10000
KAYL Storm Lake, Iowa 2500
KRSL Russell, Kans. 2500
W1NR New Orleans, La. 2500
KRIH Rayville, La. 2500
WCRM Clare, Mich. 2500
WABO Waynesboro, Miss. 2500
KRMO Monett, Mo. 2500
KSVP Artesia, N. Mex. 1000
WEEB Southern Pines, N.C. 50000
WJEH Gallipolis, Ohio 10000
W1TG Massillon, Ohio 2500
K1K1 Albany, Ore. 2500
W1BG Philadelphia, Pa. 50000
W1SC Somerset, Pa. 2500
W1RA Mayaguez, P.R. 10000
W1KW Providence, R.I. 5000
WAKN Aiken, S.C. 10000
WNOX Knoxville, Tenn. 10000
KWAM Memphis, Tenn. 10000
KTRM Beaufort, Tex. 1000
KAML Kenedy-Karnes City, Tex. 2500
KNIN Wichita Falls, Tex. 10000
KDYL Tooele, Utah 10000
WNRV Narrows, Va. 10000
WANT Richmond, Va. 10000

1000—299.8

WCFL Chicago, Ill. 50000
WSPF Hickory, N.C. 10000
KTOK Okla. City, Okla. 5000
W0GQ Wabasha, S. C. 10000
KSTA Albany, Tex. 2500
KGR1 Henderson, Tex. 2500
WHWB Rutland, Vt. 10000
WBNB Charlotte Amalie, Virgin Islands 1000
KOMO Seattle, Wash. 50000

1010—296.9

KCAC Phoenix, Ariz. 5000
KVCN Winslow, Ariz. 1000
KLRA Little Rock, Ark. 10000
KCHJ Delano, Calif. 5000
KCMJ Palm Springs, Calif. 1000
KSAY San Francisco, Calif. 100000
W0CN Crestview, Fla. 10000
WB1X Jacksonville Beach, Fla. 100000
W1NQ Tampa, Fla. 500000
W0UN Decatur, Ga. 500000
KATN Boise, Idaho 10000
W0CJ Columbus, Ind. 5000
KSMN Mason City, Iowa 10000
KIND Independence, Kans. 2500
KDLA DeRidder, La. 10000
W1SD Baltimore, Md. 10000
W1TL Lansing, Mich. 50000
WRCR Maplewood, Minn. 2500
W1OQ Meridian, Miss. 10000
KCHY Chillicothe, Mo. 2500
KXEN Festus-St. Louis, Mo. 500000
KRVN Lexington, Nebr. 250000
W0NL Newport, N.H. 2500
W1NS New York, N.Y. 50000
WABZ Albermarle, N.C. 10000
W1FG Black Mountain, N.C. 500000
WELS Kingston, N.C. 10000
W10I New Boston, Ohio 10000
KBEV Portland, Ore. 10000
W1UN Lewisburg, Pa. 2500
W1HN Gallatin, Tenn. 10000
W0RM Savannah, Tenn. 2500
W1AM Marble, Tex. 5000
K0DA Houston, Tex. 50000
KAWA Waco-Marlin, Tex. 100000
WELK Charlottesville, Va. 10000
WMEV Marion, Va. 10000
WPMH Portsmouth, Va. 50000

WCST Berkeley Springs, W. Va. 2500
WSPT Stevens Pt., Wis. 10000

1020—293.9

KGBS Los Angeles, Calif. 50000
WFLC Carbondale, Ill. 10000
W0PE Peoria, Ill. 10000
KDKA Pittsburgh, Pa. 50000

1030—291.1

WBZ Boston, Mass. 50000
KCTA Corpus Christi, Tex. 500000

1040—288.3

KHVV Honolulu, Hawaii 5000
W00 Des Moines, Iowa 50000
K1XL Dallas, Tex. 10000

1050—285.5

WRF5 Alexander City, Ala. 10000
WCRI Scottsboro, Ala. 2500
KVLG Little Rock, Ark. 10000
K0FY San Mateo, Calif. 10000
KWSO Wasco, Calif. 10000
K1MO Longmont, Colo. 2500
W1SB Crestview, Fla. 10000
W1VY Jacksonville, Fla. 10000
W0BO Tampa, Fla. 2500
W0RM Titusville, Fla. 5000
W0UG Augusta, Ga. 50000
W0NZ Montezuma, Ga. 2500
W0Z DeCATur, Ill. 10000
W0TC Plymouth, Ind. 2500
KNC0 Garden City, Kan. 5000
W1SE Central City, Ky. 5000
K1PL Lake Providence, La. 2500
K1CJ Shreveport, La. 2500
K1PI Villa Platte, La. 2500
W0MG Oakland, Md. 5000
W0QB Silver Sprng., Md. 10000
W0PAG Ann Arbor, Mich. 50000
K1OH Pipestone, Minn. 10000
W0ACR Columbus, Miss. 10000
K1S1 Portageville, Mo. 10000
K1S1 Sedalia, Mo. 10000
K1VC Las Vegas, Nev. 5000
W0NC Conway, N.H. 10000
W0SN Baldwinville, N.Y. 2500
W0ST Massena, N.Y. 10000
W1HN New York, N.Y. 50000
W0LN Franklin, N.C. 10000
W0LN Linoonton, N.C. 10000
W0GP Sanford, N.C. 10000
W0ZP Cincinnati, Ohio 10000
K0CC Lawton, Okla. 2500
KFMJ Tulsa, Okla. 10000
KEED Springfield-Eugene, Ore. 10000

WBUT Butler, Pa. 10000
W1YC Williamsport, Pa. 10000
W0MT Satter, Pa. 10000
K1EN Killcien, Tex. 2500
KFAZ Liberty, Tex. 2500
KCAS Slaton, Tex. 2500
W0AT Gate City, Va. 2500
W0BS Lynchburg, Va. 10000
W0RM Norfolk, Va. 10000
KBEA Seattle, Wash. 50000
W0EF Parkersburg, W. Va. 50000
W0EL Eau Claire, Wis. 10000
W1LP Kenosha, Wis. 2500
W0IV Douglas, Wyo. 2500

1060—282.8

KUPD Tempo, Ariz. 500
KPAY Chico, Calif. 10000
K1MO Longmont, Colo. 100000
W0NE New Orleans, La. 50000
W0HF Benton Harbor-St. Joseph, Mich. 5000
W0AP Monroe, N.C. 2500
W0HF Canton, Ohio 5000
W0RCV Philadelphia, Pa. 50000
W0RS San German, P. R. 250

1070—280.2

W0PI Birmingham, Ala. 50000
K1NX Los Angeles, Calif. 50000
W0BC Cora Gales, Fla. 10000
W1BG Indianapolis, Ind. 50000
KFDI Wichita, Kans. 10000
KHMDD Hannibal, Mo. 5000
W0HE High Point, N.C. 10000
W0K0 Sunbury, Penn. 10000
W01A Arcadio, P. R. 5000
W1LI Lookout Mtn., Tenn. 10000
W01A Memphis, Tenn. 50000
KOPY Alice, Tex. 1000
W0EN Houston, Tex. 10000
W0KW Madison, Wis. 10000

1080—277.6

WKAC Athens, Ala. 10000
KSC0 Santa Cruz, Calif. 10000
W1TC Hartford, Conn. 50000
W1LI Lookout Mtn., Tenn. 10000
W01E Marietta, Ga. 100000
W01O Louisville, Ky. 5000
W0AF Owosso, Mich. 10000
W0UP Amherst, N.Y. 1000

Kc.	Wave Length	W.P.	Kc.	Wave Length	W.P.	Kc.	Wave Length	W.P.	Kc.	Wave Length	W.P.
WEWD	Laurinburg, N.C.	1000d	WHUN	Huntingdon, Pa.	5000d	KAPT	Salem, Ore.	1000	WCMC	Wildwood, N.J.	100
WWDR	Murfreesboro, N.C.		WYNS	Lehighton, Pa.	1000d	WIUN	Mexico, Pa.	1000d	KALG	Alamogordo, N.Mex.	250
WMVR	Sidney, O.	250d	WKPA	New Kensington, Pa.	1000d	WRIB	Providence, R.I.	1000d	KDTS	Deming, N.Mex.	250
KWJJ	Portland, Ore.	5000d	WDIX	Orangeburg, S.C.	5000	WVLD	Walterboro, S.C.	1000d	KYVA	Gallup, N.Mex.	1000
WEPF	Pittsburgh, Pa.	1000d	WTCL	Rock Hill, S.C.	1000a	WFWL	Camden, Tenn.	250d	KFUN	Ft. Worth, Tex.	1000
KRLD	Dallas, Tex.	5000d	WSNW	Seneca Township, South Carolina	1000d	WCPH	Etowah, Tenn.	1000d	KRSY	Roswell, N.Mex.	1000
1090—275.1											
KAAY	Little Rock, Ark.	5000d	KIMM	Rapid City, S.Dak.	5000d	KVLL	Livingston, Tex.	250d	WNIA	Chickotawga, N.Y.	500
WCRA	Ethingham, Ill.	2500d	WAPD	Chattanooga, Tenn.	5000	KZEE	Weatherford, Tex.	250d	WENY	Eliot, N.Y.	1000
WGAI	Menota, Ill.	5000	WCRK	Morristown, Tenn.	1000	WLSD	Big Stone Gap, Va.	1000d	WIGS	Gouverneur, N.Y.	1000
KHAI	Honolulu, Hawaii	5000	WTAW	Bryan, Tex.	1000d	WFAJ	Falls Church, Va.	5000d	WHUC	Hudson, N.Y.	1000
KNWS	Waterloo, Iowa	1000d	KCOCT	Corpus Christi, Tex.	1000d	KASY	Auburn, Wash.	250d	WLFH	Little Falls, N.Y.	1000
WBAL	Baltimore, Md.	5000d	KIZL	El Paso, Tex.	1000d	KZOI	Chelan, Wash.	1000d	WFAW	White Plains, N.Y.	1000
WILD	Boston, Mass.	1000d	KVIL	Highland Park, Tex.	1000d	WRNE	Wis. Rapids, Wis.	500d	WSKY	Waynesville, N.C.	1000
WMIUS	Muskogee, Mich.	1000d	KJBC	Midland, Tex.	1000d	1230—243.8					
WERB	Garden City, Mich.	2500	KPNG	Port Neches, Tex.	500d	WAUD	Auburn, Ala.	1000	WSPC	Cincinnati, Ohio	1000
WMWM	Wilmington, O.	5000d	KOLJ	Quannah, Tex.	500d	WJBB	Haleyville, Ala.	1000	WCOL	Columbus, Ohio	1000
KING	Seattle, Wash.	2500	KBER	San Antonio, Tex.	1000d	WBHP	Huntsville, Ala.	1000	WIRL	Ironton, O.	1000
1100—272.6											
KFAX	San Francisco, Calif.	5000d	KOFE	Pullman, Wash.	1000d	WNUZ	Talledega, Ala.	250	WTOL	Toledo, Ohio	1000d
WLBB	Carrollton, Ga.	250d	KAYO	Seattle, Wash.	5000	WTBC	Tuscaloosa, Ala.	1000	KADA	N. of Ada, Okla.	250
WHLI	Hempstead, N.Y.	10000d	KABH	Vanover, Wash.	1000d	KIFW	Sitka, Alaska	1000	WBEB	Ponca City, Okla.	250
KYW	Cleveland, Ohio	5000d	WELC	Welch, W.Va.	1000d	KSUN	Bisbee, Ariz.	250	KVAS	Astoria, Ore.	1000
WGPA	Bethlehem, Pa.	250d	WAXX	Chippewa Falls, Wis.	5000d	KAAA	Kingman, Ariz.	1000	KRNS	Keosauqua, Ore.	1000
1110—270.1											
KRLA	Pasadena, Cal.	5000d	WISN	Milwaukee, Wis.	5000	KATZ	Phoenix, Ariz.	250	KRDS	Croshaw, Ore.	1000
WALT	Tampa, Fla.	5000d	1160—258.5			KINO	Winslow, Ariz.	1000	KRDS	Croshaw, Ore.	1000
KIPA	Hilo, Hawaii	5000d	WJJD	Chicago, Ill.	5000d	KCON	Conway, Ark.	1000	KYJC	Medford, Ore.	1000
WMBI	Chicago, Ill.	5000d	KSL	Salt Lake City, Utah	5000d	KFPW	Ft. Smith, Ark.	1000	KQIK	Lakeview, Ore.	250
KFAB	Omaha, Nebr.	5000d	1170—256.3			KBTM	Jonesboro, Ark.	1000	KDTO	Toledo, Ore.	1000
WBT	Charlotte, N.C.	5000d	WCOV	Montgomery, Ala.	1000d	KCON	Conway, Ark.	1000	KDTP	Toledo, Ore.	1000
KBND	Bend, Ore.	250d	KCBG	San Diego, Calif.	5000d	KGEE	Bakersfield, Calif.	1000	WBVP	Beaver Falls, Pa.	1000
WVDS	Everett, Penn.	5000	KOHQ	Honolulu, Hawaii	1000	KWTC	Barstow, Calif.	1000	WCFX	Cincinnati, Ohio	1000
WNAR	Norristown, Penn.	5000d	WLBH	Mattoon, Ill.	250d	KIBS	Bishop, Calif.	1000	WKBO	Harrisburg, Pa.	1000
WVJP	Caguas, P.R.	250	KSTT	Davenport, Iowa	1000	KXO	El Centro, Calif.	250	WCRO	Johnstown, Pa.	1000
WHIM	Providence, R.I.	1000d	KVLO	Tulsa, Okla.	5000d	KDAC	Ft. Bragg, Calif.	250	WBPZ	Lock Haven, Pa.	1000
WFHC	Waverly, Tenn.	1000d	KPOE	Ponce, P.R.	250	KGJF	Los Angeles, Calif.	1000	WTVT	Titusville, Pa.	500d
KDRI	Alamo Heights, Tex.	1000d	KBUG	Bellingham, Wash.	1000	KPRL	Paso Robles, Calif.	1000	WNJK	Arcibo, P.R.	1000
1120—267.7											
WUST	Bethesda, Md.	250d	WVVA	Wheeling, W.Va.	5000d	KRDG	Redding, Calif.	250	WERI	Westerly, R.I.	1000
KMOX	St. Louis, Mo.	5000d	1180—254.1			KWGT	Stockton, Calif.	1000	WAJM	Anderson, S.C.	1000
WQOL	Buffalo, N.Y.	1000d	WLDS	Jacksonville, Ill.	1000d	KXOJ	Leadville, Colo.	250	WNO	Northampton, Pa.	1000
KEED	Springfield-Eugene, Ore.	1000d	WHAM	Rochester, N.Y.	5000d	KDCA	Durango, Colo.	1000	WOLS	Florence, S.C.	1000
KCLE	Cleburne, Tex.	2500d	1190—252.0			KGEE	Sterling, Colo.	1000d	KISD	Sioux Falls, S.Dak.	1000d
KRDU	Durham, N.C.	1000	KRDS	Tolleson, Ariz.	250	WINF	Manchester, Conn.	1000	WAKI	McMinnville, Tenn.	1000
KSDO	San Diego, Calif.	1000	KEZY	Anaheim, Calif.	1000	WGGG	Gainesville, Fla.	1000	KSIX	Corpus Christi, Tex.	1000
KWKH	Shreveport, La.	5000d	KNBA	Vallejo, Calif.	250d	WONN	Lakeland, Fla.	1000	DLK	Del Rio, Tex.	250
WCAR	Detroit, Mich.	5000d	WOWF	Ft. Wayne, Ind.	5000	WMAF	Madison, Fla.	1000	KNUZ	Houston, Tex.	1000
WDGY	Minneapolis, Minn.	5000d	WANN	Annapolis, Md.	1000d	WBBF	New Smyrna Bch., Fla.	1000	KERY	Kerrville, Tex.	1000
WNEW	New York, N.Y.	5000d	WKOX	Framingham, Mass.	1000d	WVNY	Pensacola, Fla.	1000	KLVY	Levelland, Tex.	250
1130—265.3											
KRDK	Los Angeles, Calif.	5000d	WLIB	New York, N.Y.	1000d	WVNY	Pensacola, Fla.	1000	KEEE	Nacogdoches, Tex.	1000
KLEI	Kailua, Hawaii	1000	KEX	Portland, Ore.	5000d	WCNH	Queeny, Fla.	1000d	KOSA	Odessa, Tex.	1000
KWKH	Shreveport, La.	5000d	WRAI	Rio Piedras, P.R.	500	WJNO	W. Palm Beach, Fla.	250	KHHH	Pampa, Tex.	1000
WCAR	Detroit, Mich.	5000d	KLIF	Dallas, Tex.	5000d	WBJA	Augusta, Ga.	1000d	KSEY	Seymour, Tex.	1000d
WDGY	Minneapolis, Minn.	5000d	1200—249.9			WBLJ	Dalton, Ga.	1000	KSSU	Sulphur Springs, Tex.	1000
WNEW	New York, N.Y.	5000d	WDAI	San Antonio, Tex.	5000d	WXLI	Dublin, Ga.	1000	KWTX	Waco, Tex.	1000d
1140—263.0											
KRAK	Sacramento, Calif.	5000d	1210—247.8			WFOJ	Marietta, Ga.	1000	KOAJ	Price, Utah	250
WMI	Miami, Fla.	1000d	KZOO	Honolulu, Hawaii	1000	WWSK	Savannah, Ga.	1000	WJOY	Burlington, Vt.	1000
KGEM	Boise, Idaho	1000d	WCNT	Centralia, Ill.	1000d	WAYX	Waycross, Ga.	1000	WBBI	Abingdon, Va.	1000d
WSIV	Pekin, Ill.	5000d	WKXN	Saginaw, Mich.	1000d	KBAR	Burley, Idaho	1000	WLLI	Brookneal, Va.	1000
KLPR	Oklahoma City, Okla.	1000d	WADE	Wadesboro, N.C.	1000d	KORT	Grangeville, Idaho	250	WCFV	Clifton Forge, Va.	1000
WITA	San Juan, P.R.	500	WDAY	Dayton, Ohio	250d	KRXK	Rexburg, Idaho	1000	WFVA	Fredericksburg, Va.	1000
KSOU	Sioux Falls, S.Dak.	1000d	WCAU	Philadelphia, Pa.	5000d	WJBC	Bloomington, Ill.	1000	WGOR	Norfolk, Va.	1000
KORC	Mineral Wells, Tex.	250d	1220—245.8			WQUA	Moline, Ill.	250	WVZ	Waverly, Wash.	1000
WRVA	Richmond, Va.	5000d	WAQY	Birmingham, Ala.	1000	WHCO	Sparta, Ill.	250	KSPK	Spokane, Wash.	1000
1150—260.7											
WBCA	Bay Minnetta, Ala.	1000d	WABF	Fairhope, Ala.	1000	WJOB	Hammond, Ind.	1000	KREW	Sunnyside, Wash.	1000
WGEA	Geneva, Ala.	1000d	KVSA	McGehee, Ark.	1000d	WLSG	Logansport, Ind.	1000	WLOG	Logan, W.Va.	1000
WJRD	Tuscaloosa, Ala.	5000	KLIP	Fowler, Calif.	250d	WTCT	Tell City, Ind.	1000	WTAP	Parkersburg, W.Va.	1000
KCKY	Coolidge, Ariz.	1000	KIBE	Palo Alto, Cal.	5000d	WBOW	Terre Haute, Ind.	1000d	WHBY	Appleton, Wis.	1000
KXLR	No. Little Rock, Ark.	5000	KKAR	Pomona, Calif.	250d	WHIR	Danville, Ky.	1000d	WCLD	Wausau, Wis.	1000
KRKD	Los Angeles, Calif.	5000	KFSC	Denver, Colo.	1000d	WHOP	Hopkinsville, Ky.	1000d	KVOC	Casper, Wyo.	1000
KJAX	Santa Rosa, Calif.	5000	WDEI	Hamden, Conn.	1000d	WMLF	Pineville, Ky.	1000d	1240—241.8		
KGMC	Englewood, Colo.	1000d	WQTY	Arlington, Fla.	1000d	KLIC	Monroe, La.	1000d	WEBJ	Brewton, Ala.	250
WGNX	Middletown, Conn.	1000d	WOSL	Kissimmee, Fla.	1000d	WHO	New Orleans, La.	1000	WWR	Waco, Ala.	1000d
WDEL	Wilmington, Del.	5000	WMET	Miami, Fla.	250d	KSLO	Opelousas, La.	1000	WULA	Eufaula, Ala.	250
WNOB	Daytona Bch., Fla.	1000d	WSAF	Sarasota, Fla.	1000d	WBME	Belfast, Me.	1000d	WOWL	Florence, Ala.	1000
WTPM	Tampa, Fla.	5000d	WCLB	Camilla, Ga.	1000d	WQDY	Calais, Maine	1000d	WARF	Jasper, Ala.	1000
WFPM	Fort Valley, Ga.	1000d	WPLK	Rockmart, Ga.	500d	WUCM	Cumberland, Md.	1000	KVRD	Cottonwood, Ariz.	250
WJEM	Valosta, Ga.	1000d	WFTF	Thomason, Ga.	250d	WMNB	No. Adams, Mass.	1000d	KZOW	So. of Globe, Ariz.	1000
WGHM	Marion, Ill.	5000	WLPT	LaSalle, Ill.	1000d	WESX	Salem, Mass.	1000	KVRC	Arkadelphia, Ark.	250
WJRL	Rockford, Ill.	5000	WKRS	Waukegan, Ill.	1000d	WNEB	Worcester, Mass.	1000	KPLV	Crescent City, Calif.	250
KBIA	Burlington, Ia.	1000	WSLM	Salem, Ind.	5000d	WJEF	Grand Rapids, Mich.	1000	KOAD	Lemoore, Cal.	250
KWKY	Des Moines, Iowa	1000	KJAN	Janet, Iowa	250d	WMPC	Lapeer, Mich.	250	KMBY	Monterey, Calif.	1000
KSAL	Salina, Kans.	5000	KOUR	Independence, Iowa	250d	WSDO	St. Ste. Marie, Mich.	1000	KPPC	Pasadena, Calif.	1000
WMST	St. Sterling, Ky.	5000	KOFO	Ottawa, Kans.	250d	WSTR	Sturgis, Mich.	1000d	KLOA	Ridgecrest, Calif.	250
WLCC	Mumfordsville, Ky.	1000d	WFKN	Franklin, Ky.	250d	WKLK	Cloquet, Minn.	1000	KROY	Sacramento, Calif.	1000
WJBO	Baylor, Iowa	1000d	KBCL	Shreveport, La.	250d	KMKS	Marquette, Minn.	250	KRNO	San Bernardino, California	1000d
WGHM	Skowhegan, Maine	5000d	WLBZ	Wilmington, Mass.	1000d	KTRF	Thief Riv. Falls, Minn.	1000	KSUN	San Diego, Calif.	250
WHMC	Gaithersburg, Md.	1000	WSME	Sanford, N.H.	1000d	KWNO	Winona, Minn.	1000d	KSMA	Santa Maria, Calif.	250
WCOP	Boston, Mass.	5000	WBCH	Hastings, Miss.	250d	WCMA	Corinth, Miss.	1000	KSUE	Susanville, Calif.	1000
WCEN	Mt. Pleasant, Mich.	5000	WAVN	Stillwater, Minn.	5000d	WHSY	Hattiesburg, Miss.	1000	KRDO	Colorado Springs, Colo.	1000
KASM	Albany, Minn.	1000d	WMDC	Hazlehurst, Miss.	250d	WSTK	Starkville, Miss.	1000	KDGO	Durango, Colo.	1000
WXTN	Lexington, Miss.	500d	KBHM	Branson, Mo.	1000d	WAZF	Yazoo City, Miss.	1000	KCRT	Monte Vista, Colo.	250
KRMS	Osage Beach, Mo.	1000d	WBBK	Branson, Mo.	1000d	KODE	Johnlin, Mo.	1000	WCWC	Waterbury, Conn.	1000
KSEN	Shelby, Miss.	1000	WBSK	Keene, N.H.	1000d	KLWT	Lebanon, Mo.	250	WBGC	ChIPLEY, Fla.	250
KDEF	Albuquerque, N.Mex.	1000	WSON	Newburgh, N.Y.	500d	KNCM	Moberly, Mo.	1000	WLCO	Eustis, Fla.	1000
WRUN	Utica, N.Y.	3000	WSOQ	N. Syracuse, N.Y.	1000d	KBMN	Bozeman, Mont.	1000d	WINK	Ft. Myers, Fla.	1000
WBAG	Burlington, N.C.	1000d	WKMT	Kings Mtn., N.C.	1000d	KHDN	Hardin, Mont.	1000	WFBY	St. Augustine, Fla.	1000
WGBR	Goldsboro, N.C.	5000d	WREV	Reidsville, N.C.	1000d	KLCB	Libby, Mont.	250	WVZ	Waverly, Wash.	1000
WCUE	Cuyahoga Falls, Ohio	1000d	WENC	Whiteville, N.C.	5000d	KTNC	Falls City, Nebr.	1000	WLAG	LaGrange, Ga.	1000
WIMA	Lima, Ohio	1000d	KEYD	Oakes, N.Dak.	1000d	KHAS	Hastings, Neb.	1000	WBML	Macon, Ga.	1000
KNEB	Neah, Ore.	1000	WGAR	Cleveland, Ohio	5000d	KELY	Ely, Nev.	250	WWNS	Statesboro, Ga.	1000
KAGO	Klamath Falls, Ore.	5000	WERT	Wart, Ohio	250d	KLAV	Las Vegas, Nev.	250	WPAX		

WHITE'S RADIO LOG

Kc.	Wave Length	W.P.
KFLI	Mountain Home, Idaho	250
KWIK	Poeatello, Idaho	250
CRW	Chicago, Ill.	1000
WDC	Chicago, Ill.	1000
WBC	Chicago, Ill.	1000
WBQ	Harrisburg, Ill.	1000
WTAX	Springfield, Ill.	1000
WDR	Stirling, Ill.	500
WBW	Anderson, Ind.	1000d
KDEC	Decorah, Iowa	1000
KWLC	Decorah, Iowa	1000
KDZ	Ottumwa, Iowa	1000
KBI	Spencer, Iowa	1000
KIUL	Garden City, Kans.	1000
KAKE	Wichita, Kans.	250
WINN	Louisville, Ky.	1000
WFTM	Maysville, Ky.	1000
WPKE	Pikeville, Ky.	1000d
WFC	Somersel, Ky.	1000
KASD	Minden, La.	1000
KANE	New Iberia, La.	1000
WCOU	Lewiston, Maine	1000
WKR	Millinocket, Me.	1000
WCEM	Cambridge, Md.	1000
WJEJ	Hagerstown, Md.	1000
WHA	Greenfield, Mass.	250
WGB	W. Yarmouth, Mass.	1000
WATT	Cadillac, Mich.	1000
WCBY	Cheboygan, Mich.	1000
WJPD	Ispheming, Mich.	1000
WJIM	Lansing, Mich.	1000d
WMFG	Hibbing, Minn.	1000
KPRM	Park Rapids, Minn.	1000
WJON	St. Cloud, Minn.	1000
WMFA	Aberdeen, Miss.	250
WGRM	Greenwood, Miss.	1000
WGMN	Gulfport, Miss.	1000
WMIS	Natchez, Miss.	250
KFMD	Flat River, Mo.	250
KWDS	Jefferson City, Mo.	1000d
KODE	Joplin, Mo.	1000d
KNEM	Nevada, Mo.	250
KBYM	Billings, Mont.	1000
KLTZ	Glasgow, Mont.	1000
KBLT	Helena, Mont.	1000
KFOR	Lincoln, Nebr.	1000
KDDY	North Platte, Nebr.	1000
KELK	Elko, Nev.	1000
WFTN	Franklin, N.H.	1000
WNSJ	Bridgeton, N. J.	1000
KAVE	Carlsbad, N. Mex.	1000
KCLV	Clovis, N. Mex.	1000
WGBB	Freeport, N. Y.	1000
WGVV	Geneva, N. Y.	1000d
WJTM	Jamesstown, N. Y.	5000
WVOS	Liberty, N. Y.	1000
WNBZ	Saranac Lake, N. Y.	1000
WATN	Schenectady, N. Y.	1000d
WATY	Watertown, N. Y.	1000
WPNF	Brens, N. C.	250
WIST	Charlotte, N. C.	1000
WCNC	Elizabeth City, N. C.	1000d
WJNC	Jacksonville, N. C.	1000
WRAL	Raleigh, N. C.	1000
KDLR	Devils Lake, N. Dak.	250
WBWV	Youngstown, Ohio	1000
WIZ	Zanesville, Ohio	1000
KVSD	Ardmore, Okla.	250
KBEK	Eik City, Okla.	1000
KBEL	Idabel, Okla.	250
KDKL	Okmulgee, Okla.	1000
KFLY	Corvallis, Oreg.	1000d
KTXP	Pendleton, Oreg.	1000
KPRB	Redmond, Oreg.	250
KQEN	Roseburg, Oreg.	1000
WFTA	Altoona, Pa.	1000
WRUM	Reading, Pa.	1000
WBAX	Wilkes-Barre, Pa.	1000
WALO	Humacao, P.R.	1000
WVON	Woonsocket, R.I.	1000
WDKK	Newbury, S.C.	250
WDXY	Sumter, S.C.	1000
WBEJ	Elizabeth, Tenn.	1000
WEKR	Fayetteville, Tenn.	1000
WBIR	Knoxville, Tenn.	1000
WKDA	Nashville, Tenn.	1000
WENK	Union City, Tenn.	1000
KVLF	Alpine, Tex.	1000
KEAN	Brownwood, Tex.	1000
KBRA	Bryan, Tex.	1000
KOCA	Kilgore, Tex.	1000
KSOX	Ramondville, Tex.	250
KCKG	Sonora, Tex.	1000
KXOX	Sweetwater, Tex.	1000
WSKI	Montpelier, Vt.	1000
WSSV	Petersburg, Va.	1000
WRDV	Roanoke, Va.	1000
WTON	Staunton, Va.	1000
KXLE	Ellensburg, Wash.	1000
KGY	Olympia, Wash.	1000

Kc.	Wave Length	W.P.
WKQY	Bluefield, W. Va.	1000
WTIP	Charleston, W. Va.	1000
WDNE	Elkins, W. Va.	1000
WOMT	Manitowoc, Wis.	1000d
WIBU	Poynette, Wis.	1000d
WOBT	Rhineland, Wis.	1000
WJMC	Rice Lake, Wis.	1000
KFCB	Cheyenne, Wyo.	1000
KEVJ	Evanson, Wyo.	1000
KASL	Newcastle, Wyo.	250
KRAL	Rawlins, Wyo.	1000
KTHE	Thermopolis, Wyo.	1000

1250—239.9

WZOU	Ft. Payne, Ala.	1000d
WETU	Wetumpka, Ala.	5000d
KAKA	Wickenburg, Ark.	1000d
KFAY	Fayetteville, Ark.	1000d
KALO	Little Rock, Ark.	1000
KHOT	Madera, Calif.	5000d
KTMS	Santa Barbara, Calif.	1000
KDHI	Twenty-Nine Palms, Calif.	1000d
KMSL	Ukiah, Calif.	5000
KIGN	Golden, Colo.	1000d
WNER	Live Oak, Fla.	1000d
WRIM	Pahokee, Fla.	5000
WDAE	Tampa, Fla.	5000
WLYB	Albany, Ga.	1000d
WYTH	Madison, Ga.	1000d
WIZZ	Streator, Ill.	5000
WGL	Ft. Wayne, Ind.	1000d
WFRAY	Princeton, Ind.	1000d
KCFI	Cedar Falls, Iowa	5000
KFKU	Lawrence, Kans.	5000
WREN	Topeka, Kans.	5000
WNVL	Nicholasville, Ky.	500
WLCK	Scottsville, Ky.	5000d
WGUY	Bangor, Maine	5000
WARE	Ware, Mass.	1000
WBCB	Bay City, Mich.	1000d
KOTE	Fergus Falls, Minn.	1000
KCUK	Red Wing, Minn.	1000d
WHNY	W. Mead, Miss.	5000
KBTC	Houston, Mo.	5000
WBRB	Manchester, N.H.	5000
WTRT	Morrisstown, N.J.	5000d
WIPS	Ticonderoga, N.Y.	1000d
WPAF	Farmville, N.C.	5000
WKDK	Hamlet, N.C.	1000d
WBRM	Marion, N.C.	1000d
WCHO	Washington Court House, Ohio	5000
WLEM	Emporium, Pa.	1000d
WPEL	Montrose, Pa.	1000d
WRYT	Pittsburgh, Pa.	5000
WNOW	York, Pa.	5000d
WTMA	Charleston, S.C.	5000
WCKM	Winnsboro, S.C.	5000
WKBK	Covington, Tenn.	1000d
WNTT	Tazewell, Tenn.	5000
WFTY	Paris, Tex.	5000
KPAC	Port Arthur, Tex.	5000
KUKA	San Antonio, Tex.	1000d
KTFO	Seminole, Tex.	1000d
KANN	Ogden, Utah	1000d
KVEL	Vernal, Utah	5000d
WDVA	Danville, Va.	5000
WYSR	Franklin, Va.	1000
WEER	Warrenton, Va.	1000d
KWSC	Pullman, Wash.	5000
KTW	Seattle, Wash.	5000
WEMP	Milwaukee, Wis.	5000

1260—238.0

WCRT	Birmingham, Ala.	5000d
KPIN	Casa Grande, Ariz.	1000d
KCCB	Corning, Ark.	5000
KBHC	Nashville, Ark.	5000
KYL	San Fernando, Calif.	5000
KGSA	San Francisco, Calif.	5000
KSNQ	Aspen, Colo.	5000d
WNNM	Westport, Conn.	1000d
WNRK	Newark, Del.	5000
WDFC	Washington, D.C.	5000
WFTW	Fort Walton Beach, Florida	1000d
WAME	Miami, Fla.	5000d
WFPF	Palatka, Fla.	1000d
WBAK	Baxley, Ga.	5000d
WBEZ	Blakely, Ga.	1000d
WTHJ	East Point, Ga.	5000d
KTEE	Idaho Falls, Ida.	5000d
KWEI	Weiser, Ida.	1000d
WBV	Belleville, Ill.	5000d
WFBM	Indianapolis, Ind.	5000
KFGG	Boone, Iowa	1000d
KWHK	Hutchinson, Kans.	1000
WXOK	Baton Rouge, La.	1000d
WEZE	Boston, Mass.	5000
WALB	Albion, Mich.	1000
WJBL	Holland, Mich.	5000
KROX	Crookston, Minn.	1000
KDZU	Hutchinson, Minn.	1000d
WGVV	Greenville, Miss.	5000d
WNSL	Laurel, Miss.	5000d
WCSA	Ripley, Miss.	5000d
KGBX	Springfield, Mo.	5000
KIMB	Kimball, Nebr.	1000d

Kc.	Wave Length	W.P.
WBUD	Trenton, N.J.	5000
KVSF	Santa Fe, N. Mex.	1000
WBNR	Beacon, N.Y.	1000d
WNSR	Syracuse, N.Y.	5000
WGRW	Asheboro, N.C.	5000d
WCDJ	Edenton, N.C.	1000d
WKDK	Cleveland, Ohio	5000
WNXV	Columbus, Ohio	5000
KWSH	Wewoka-Seminole, Okla.	1000
KMCM	McMinnville, Oreg.	1000
WVYN	Erie, Pa.	5000
WPHB	Phillipsburg, Pa.	5000d
WISO	Ponce, P.R.	1000
WMUU	Greenville, S.C.	5000d
WJOT	Lake City, S.C.	1000d
KWYR	Winner, S. Dak.	5000d
WNOC	Chattanooga, Tenn.	1000d
WMCH	Church Hill, Tenn.	1000d
WDKN	Dickson, Tenn.	1000d
WCLC	Jamestown, Tenn.	1000d
KSPF	Diboll, Tex.	1000d
KFSO	Falfurrias, Tex.	5000
KWFR	San Angelo, Tex.	1000d
KJUE	Fulia, Tex.	1000d
KTAE	Taylor, Tex.	1000d
WCHV	Charlottesville, Va.	5000
WJJJ	Christiansburg, Va.	5000
KWVJ	Moses Lake, Wash.	1000d
WVVV	Grafton, W. Va.	500
WVIS	Black River Falls, Wis.	1000d
WEKZ	Monroe, Wis.	1000d
KPOW	Powell, Wyo.	5000

1270—236.1

WGSV	Guntersville, Ala.	1000d
WSIM	Prichard, Ala.	1000d
KBYR	Anchorage, Alaska	1000
KDJI	Holbrook, Ariz.	1000d
KADL	Pine Bluff, Ark.	5000d
KGOL	Palm Desert, Cal.	5000
KCDK	Tulare, Calif.	5000d
WNOG	Naples, Fla.	5000
WHYI	Orlando, Fla.	5000
WNTT	Tallahassee, Fla.	5000
WKRW	Cartersville, Ga.	5000
WGBA	Columbus, Ga.	5000d
WJJC	Commerce, Ga.	1000d
KNDI	Honolulu, Hawaii	5000
KTFI	Twin Falls, Idaho	5000
WEIG	Charleston, Ill.	1000d
WHBF	Rock Island, Ill.	5000
WCMR	Elkhart, Ind.	1000d
WCGA	Gary, Ind.	1000
WORX	Madison, Ind.	1000d
KSCB	Liberal, Kans.	1000
WAIN	Columbia, Ky.	1000d
WFUL	Fulton, Ky.	1000d
KVCL	Winfield, La.	1000d
WSPR	Springfield, Mass.	5000
WXYZ	Detroit, Mich.	5000
KWEB	Rochester, Minn.	5000
WVOM	Ioka, Miss.	1000d
WLSM	Louisville, Miss.	5000d
KUSN	St. Joseph, Mo.	1000d
KBUS	Sparks, Nev.	1000d
WTSN	Dover, N.H.	5000
WVVL	Vineand, N.J.	5000
WRAC	Ainagorodo, N. Mex.	5000d
WHLN	Niagara Falls, N.Y.	5000d
WDLA	Walton, N.Y.	1000d
WCGC	Belmont, N.C.	5000
WMPM	Smithfield, N.C.	5000d
KBOM	Mandan, N. Dak.	1000
WILE	Cambridge, Ohio	1000d
KWPR	Claremore, Okla.	5000
KAJG	Grants Pass, Oreg.	5000d
WLBK	Lebanon, Pa.	5000
WBHC	Hampton, S.C.	1000d
WNSK	Sioux Falls, S. Dak.	1000
WLK	Newport, Tenn.	5000d
KIDX	Bay City, Tex.	1000
KHEM	Big Spring, Tex.	1000d
KEPS	Eagle Pass, Tex.	1000d
KHFD	Fort Worth, Tex.	1000d
WTDI	Newport News, Va.	1000
WHEO	Stuart, Va.	1000d
KCVL	Colville, Wash.	1000d
KBAM	Longview, Wash.	5000d
WKYR	Keyser, W. Va.	5000
WRJC	Mauston, Wis.	5000
WVJC	Superior, Wis.	5000d

1280—234.2

WPID	Piedmont, Ala.	1000d
WNBT	Tuscaloosa, Ala.	5000
WPHX	Phoenix, Ariz.	5000
WNEP	Newport, Ark.	1000d
KCHJ	Arroyo Grande, Cal.	1000
KFOK	Long Beach, Calif.	1000
KCHJ	San Luis Obispo, Cal.	5000
KJOY	Stockton, Calif.	1000
KTLN	Denver, Colo.	5000
WSUX	Seaford, Del.	1000d
WDSP	DeFuniak Springs, Florida	5000d
WQIK	Jacksonville, Fla.	5000d

Kc.	Wave Length	W.P.
WIPC	Lake Wales, Fla.	1000d
WYND	Sarasota, Fla.	5000
WIBB	Macon, Ga.	5000d
WMRO	Aurora, Ill.	1000d
WGBF	Evansville, Ind.	5000
KCOB	Newton, Iowa	1000d
KSOA	Arkansas City, Kans.	1000
WCFM	Cumberland, Ky.	1000
WKCL	Oak Grove, La.	5000
WEIM	Fitchburg, Mass.	5000
WFCY	Alma, Mich.	5000d
WWTC	Minneapolis, Minn.	5000
KVOX	Moorehead, Minn.	1000
KDKD	Clinton, Mo.	1000d
KYRO	Potosi, Mo.	5000
KCNJ	Broken Bow, Nebr.	5000
KCRZ	Farmington, N. Mex.	5000d
WADD	New York, N.Y.	5000
WROC	Rochester, N.Y.	5000d
WSAT	Salisbury, N.C.	1000
WYAL	Scotland Neck, N.C.	5000d
WONW	Defiance, Ohio	1000
WLMJ	Jackson, Ohio	1000d
KCTD	Texarkana, Okla.	1000d
KERG	Eugene, Oreg.	5000
WBRX	Berwick, P.	1000
WHYR	Hanover, Pa.	5000
WKST	New Castle, Pa.	1000
WCMN	Arcadio, P.R.	5000
WANS	Anderson, S.C.	5000
WJAY	Mullins, S.C.	5000d
KHBH	Sturgis, S. D.	1000d
W MCP	Columbia, Tenn.	1000d
WDNT	Dayton, Tenn.	1000d
KNIT	Abilene, Tex.	5000
KWHI	Brongham, Tex.	1000d
KLUE	Longview, Tex.	1000d
KRAN	Morton, Tex.	500
KVWG	Pearsall, Tex.	5000
KNAK	Salt Lake City, Utah	5000
WKVA	Alabaster, Va.	5000
WYVE	Wytheville, Va.	1000d
KMAS	Shelton, Wash.	1000d
KUDY	Spokane, Wash.	5000d
KIT	Yakima, Wash.	5000
WVAR	Richwood, W. Va.	1000d
W NAM	Neenah, Wis.	5000

1290—232.4

WHOD	Jackson, Ala.	1000d
WSHF	Sheffield, Ala.	5000
WMLS	Slayauga, Ala.	1000d
KEOS	Fayetteville, Ariz.	1000
KUCB	Tucson, Ariz.	1000
KDMS	El Dorado, Ark.	5000d
KUQA	Siloam Sprgs., Ark.	5000d
KHSL	Chico, Calif.	5000
KPER	Gilroy, Calif.	5000d
KMEN	San Bernardino, Calif.	5000
KACL	Santa Barbara, Cal.	5000
WCCC	Hartford, Conn.	5000
WTUX	Wilmington, Del.	1000d
WTMC	Ocala, Fla.	5000
WSCM	Panama City Beach, Fla.	5000
WIRK	W. Palm Bch., Fla.	5000
WDEC	Americus, Ga.	1000d
WCHK	Canton, Ga.	1000d
WTCC	Savannah, Ga.	5000
KSNP	Pocatello, Idaho	1000d
WIRL	Peoria, Ill.	500

Kc.	Wave Length	W.P.	Kc.	Wave Length	W.P.	Kc.	Wave Length	W.P.	Kc.	Wave Length	W.P.
1300—230.6											
WBSA	Baaz, Ala.	1000d	WFAH	Alliance, Ohio	1000d	WVEV	New York, N.Y.	5000	WJMB	Brookhaven, Miss.	250
WTLS	Tallasee, Ala.	1000d	KNPS	Newport, Oreg.	5000	WVWV	New York, N.Y.	5000	WAML	Laurel, Miss.	250
WEZQ	Winfield, Ala.	5000d	WBFJ	Seaford, Pa.	5000d	WUWO	Owego, N.Y.	1000d	KLXD	Mexico, Mo.	1000d
KWCB	Searey, Ark.	1000d	WGSA	Ephrata, Pa.	5000d	WHAZ	Troy, N.Y.	1000d	KXED	Poplar Bluff, Mo.	1000d
KROP	Brawley, Calif.	1000d	WNAE	Warren, Pa.	5000d	WUBM	Waveland, N.C.	1000d	KSOM	St. Genevieve, Mo.	1000d
KYNO	Fresno, Calif.	5000	WDKD	Kingstree, S.C.	5000d	WHOT	Campbell, Ohio	1000	KSNO	Salt Lake, Utah	1000
KWKW	Pasadena, Calif.	5000	WDDO	Chattanooga, Tenn.	5000	WFIN	Findlay, Ohio	1000d	KDRO	Sedalia, Mo.	1000
KVOR	Colo. Sprngs., Colo.	1000	WDXI	Jackson, Tenn.	5000	WKOV	Wellston, Ohio	5000d	KICK	Springfield, Mo.	1000
WAVZ	New Haven, Conn.	1000	WBNT	Oneida, Tenn.	1000d	WELW	Willoughby, O.	5000d	KCAP	Helena, Mont.	1000
WRKT	Cocoa Beach, Fla.	5000	KZJP	Amarillo, Tex.	1000d	KPOJ	Portland, Oreg.	5000	KPRK	Livingston, Mont.	1000
WFFG	Marathon, Fla.	500	WRR	Dallas, Tex.	5000	WBLF	Bellefonte, Pa.	500	KATL	Miles City, Mont.	1000
WSOL	Tampa, Fla.	5000d	WYI	Jessie, Tex.	1000d	WFCU	Erie, Pa.	5000	KQTE	Missoula, Mont.	250
WMTM	Moultrie, Ga.	5000d	KUBO	San Antonio, Tex.	5000	WCON	Conway, S. C.	5000	KHUB	Freemont, Nebr.	500
WNEA	Nowman, Ga.	500	WEEL	Fairfax, Va.	5000	WFGC	Greenville, S.C.	5000	KGFV	Kearney, Nebr.	1000
WMO	Winder, Ga.	1000d	WGH	Newport News, Va.	5000	WAEW	Crossville, Tenn.	1000d	KSID	Sidney, Nebr.	1000
KOZE	Lewisville, Idaho	5000	KARY	Prosser, Wash.	1000d	WTRS	Dyersburg, Tenn.	5000	KORK	Las Vegas, Nev.	1000
WTAQ	La Grange, Ill.	5000	WIBA	Madison, Wis.	5000	KMLI	Cameron, Tex.	5000	KBET	Reno, Nev.	1000
WFRX	W. Frankfort, Ill.	1000d	1320—227.1			KSWA	Graham, Tex.	5000	WDCR	Hanover, N.H.	1000
WHLT	Huntington, Ind.	500d	WAGF	Dothan, Ala.	1000	KINE	Kingsville, Tex.	1000d	WMDI	Atlantic City, N.J.	1000
WAAC	Terre Haute, Ind.	500d	WENN	Birmingham, Ala.	5000d	KVKM	Monahans, Tex.	5000	KHAP	Aztec, N.M.	1000d
KGLO	Mason City, Iowa	5000	KBLU	Yuma, Ariz.	5000	KDOK	Tyler, Tex.	1000d	KRRR	Ruidoso, N. Mex.	1000
WBLG	Lexington, Ky.	1000	KWHN	Fort Smith, Ark.	5000	WBTM	Danville, Va.	5000	KRIT	Faos, N. Mex.	250
WIBR	Baton Rouge, La.	1000	KRLW	Walnut Ridge, Ark.	1000d	WRAX	Luray, Va.	1000d	KSIL	Silver City, N. Mex.	250
KNFB	Shreveport, La.	1000d	KHS	Hemet, Calif.	5000	WQLD	Marion, Va.	1000d	WMBO	Auburn, N.Y.	1000
WFOR	Baltimore, Md.	5000	KLAN	Lemoore, Calif.	1000d	WESR	Tasler, Va.	5000d	WENT	Governville, N.Y.	1000
WJDA	Quincy, Mass.	1000d	KUDE	Oceanside, Calif.	500	KFKF	Bellevue, Wash.	5000d	WKSJ	Jamestown, N.Y.	250
WOOD	Grand Rapids, Mich.	5000	KCRG	Sacramento, Calif.	5000	KCFA	Spokane, Wash.	5000d	WUSJ	Lockport, N.Y.	250
WRBC	Jackson, Miss.	5000	KAVI	Rocky Ford, Colo.	1000d	WETZ	New Martinsville, W. Va.	1000d	WMSA	Massena, N.Y.	1000
KMMO	Marshall, Mo.	1000d	WATR	Waterbury, Conn.	5000	WHBL	Sheboygan, Wis.	5000	WAWA	Ludlowtown, N.Y.	1000
KBRM	McCook, Nebr.	5000d	WGMA	Hollywood, Fla.	1000d	KOVE	Lander, Wyo.	5000	WJRI	Lenoir, N.C.	1000
KPTL	Carson City, Nev.	5000	WZOK	Jacksonville, Fla.	5000	1340—223.7					
WPAH	Plymouth, N. H.	5000	WAMP	Vespe, Fla.	5000	WKUL	Cullman, Ala.	1000	WOXF	Oxford, N.C.	1000
WAAT	Trenton, N.J.	5000d	WHIE	Griffin, Ga.	5000d	WJFI	Florence, Ala.	1000	WOOW	Greenville, N.C.	1000
WOSC	Fulton, N.Y.	1000d	WKAN	Kankakee, Ill.	1000	WGWC	Selma, Ala.	250	WNGI	Wilmington, N.C.	1000
WMMJ	Lancaster, N.Y.	5000	KNIA	Knoxville, Iowa	500d	WFBF	Sylacauga, Ala.	1000	WAIR	Winston-Salem, N.C.	250
WEEE	Rensselaer, N.Y.	5000d	KMAQ	Maquoketa, Iowa	500d	KIBH	Seward, Alaska	250	KGPO	Grafton, N. Dak.	1000
WRRS	Spring Valley, N. Y.	5000	KWBR	Lawrence, Kans.	500d	KKNO	Flagstaff, Ariz.	250	WNCO	Asheboro, N.C.	1000
WGOL	Goldsboro, N.C.	1000d	WBRT	Bardstown, Ky.	1000d	KPGE	Page, Ariz.	1000	WQUB	Athens, Ohio	250
WLNC	Laurinburg, N.C.	500	WCLU	Covington, Ky.	1000d	KENT	Prescott, Ariz.	250	WIZE	Springfield, Ohio	1000
WSYD	Mt. Airy, N.C.	5000	KOTL	Clayfield, Ky.	5000	KBTA	Batesville, Ark.	500	WSTV	Steuersville, Ohio	1000
WERE	Cleveland, Ohio	5000	KHA	Homer, La.	1000d	KAAB	Hot Springs, Ark.	1000	KIHN	Hugo, Okla.	250
WMVO	Mt. Vernon, Ohio	5000	WICO	Salisbury, Md.	1000d	KBRB	Springdale, Ark.	1000	KOCY	Okla. City, Okla.	250
KOME	Tulsa, Okla.	5000	WARA	Attleboro, Mass.	1000	KATA	Arcata, Calif.	250	KTDW	Sand Springs, Okla.	250
KDOV	Medford, Oreg.	5000d	WLS	Lansing, Mich.	5000	KWAK	Waco, Tex.	1000	KLGO	Corvallis, Oreg.	250
KACI	The Dalles, Oreg.	1000d	WDMJ	Marquette, Mich.	1000	KDOL	Mojava, Calif.	1000	KWVR	Enterprise, Oreg.	250
WCHC	Clarton, Pa.	500d	WRWJ	Picayune, Miss.	5000d	KSFN	Needles, Calif.	250	KIHR	North River, Oreg.	250
WTLH	Hazleton, Pa.	1000	KXLD	Clayton, Mo.	1000d	KAOB	Orlando, Cal.	1000	KFIR	Head Bend, Oreg.	1000
WTL	Mayaguez, P.R.	500d	KRDD	St. Louis, Mo.	1000d	KATY	San Luis Obispo, California	1000	KVCV	Connellsville, Pa.	1000d
WLOW	Aiken, S.C.	500d	WQSR	Solvay, N.Y.	500d	KIST	Santa Barbara, Calif.	1000	WSAJ	Grove City, Pa.	1000
WCKI	Greer, S.C.	1000d	WAGY	Forest City, N.C.	1000	KOMY	Watsonville, Calif.	1000	WKRZ	Oil City, Pa.	1000
WKSC	Kershaw, S.C.	500d	WCOG	Greensboro, N.C.	5000	KDEN	Denver, Colo.	1000	WHAT	Philadelphia, Pa.	1000
WQIZ	St. George, S.C.	500d	WKRK	Murphy, N.C.	5000d	KWSL	Grand Junction, Colo.	250	WRAW	Reading, Pa.	1000
KOLY	Mobridge, S. Dak.	1000d	WEW	Washington, N.C.	5000	KVRH	Salida, Colo.	1000	WTRN	Tyrone, Pa.	1000
WMTN	Morrisstown, Tenn.	5000d	KHRT	Minot, N. D.	500	WNHC	New Haven, Conn.	1000	WBRE	Wilkes-Barre, Pa.	1000
WMAK	Nashville, Tenn.	5000	WHOK	Lancaster, Ohio	1000d	WOUK	Washington, D. C.	1000	WWPA	Williamsport, Pa.	1000
KVET	Austin, Tex.	1000	WKOE	Clinton, Ohio	1000d	WCLM	Clermont, Fla.	250	WUNA	Aquidilla, P. R.	1000
KKUB	Brownfield, Tex.	5000	KATR	Eugene, Ore.	1000d	WTAN	Clearwater, Fla.	250	WQKE	Charleston, S.C.	1000
KGNS	Laredo, Tex.	5000	WKAP	Allentown, Pa.	5000	WROD	Daytona Beach, Fla.	1000	WRHI	Rock Hill, S.C.	1000
KKAS	Silsbee, Tex.	5000	WGET	Gettysburg, Pa.	1000	WDSR	Lake City, Fla.	1000	WSSC	Sumter, S.C.	1000
KSTU	Logan, Utah	1000	WJAS	Pittsburgh, Pa.	5000	WYTS	Marianna, Fla.	1000	KJIV	Huron, D.	1000
KOL	Seattle, Wash.	5000	WSCR	Seranton, Pa.	1000	WQXT	Palm Beach, Fla.	250	KRSD	Rapid City, S. Dak.	1000
WCLG	Morgantown, W. Va.	1000d	WJMO	Rio Piedras, P. R.	500	WSEB	Sebring, Fla.	250	BAC	Cleveland, Tenn.	1000
WKL	St. Albans, W. Va.	1000d	WCOL	Columbia, S. C.	5000	WNSM	Valparaiso-Niceville, Fla.	250	WWRM	Columbia, Tenn.	1000
1310—228.9											
WHEP	Foley, Ala.	1000d	KELO	Sloux Falls, S. Dak.	5000	WAKE	Athens, Ga.	1000	WGRV	Greeneville, Tenn.	1000
WJAM	Marion, Ala.	5000d	WKIN	Kingsport, Tenn.	5000d	WGAU	Atlanta, Ga.	1000	WGN	Knoxville, Tenn.	1000
KBUZ	Mesa, Ariz.	5000	WMSR	Manchester, Tenn.	5000d	WBAQ	Bakersfield, Calif.	1000	WLOK	Memphis, Tenn.	1000d
KBOK	Malvern, Ark.	1000d	KVME	Colo. City, Tex.	1000d	WBQQ	Augusta, Ga.	1000	WDCI	Winchester, Tenn.	1000
KJOT	Barstow, Calif.	1000d	KXYZ	Houston, Tex.	5000	WGAA	Cedartown, Ga.	1000	KWKC	Wilkes-Barre, Pa.	1000
KPOD	Crescent City, Calif.	1000d	KCPX	Salt Lake City, Utah	5000	WOKS	Columbus, Ga.	1000	KTSL	Burnett, Tex.	250
KDIA	Oakland, Calif.	1000d	WEET	Richmond, Va.	1000	WBJT	Lyons, Ga.	1000	KAND	Corcoran, Tex.	250
KTKR	Taft, Calif.	1000d	KXRO	Aberdeen, Wash.	5000	WST	Tifton, Ga.	1000	KSET	El Paso, Tex.	250
KFKA	Greeley, Colo.	1000	KHIT	Walla Walla, Wash.	1000d	WVLA	Virginia, Va.	1000	KLKB	Lubbock, Tex.	1000
WICH	Norwich, Conn.	1000	WQMN	Superior, Wis.	1000d	WVLA	Virginia, Va.	1000	KRBA	Lufkin, Tex.	1000
WOOD	Deland, Fla.	5000d	WFHR	Wisconsin Rapids, Wis.	5000	WVLA	Virginia, Va.	1000	KPDN	Pampa, Tex.	250
WGKR	Perry, Fla.	1000d	1330—225.4			WVLA	Virginia, Va.	1000	KPT	Port Arthur, Tex.	250
WAGC	Wausatcha, Fla.	500d	WROS	Scottsboro, Ala.	1000d	WVLA	Virginia, Va.	1000	KTEO	Santa Angelo, Tex.	250
WOMN	Deatur, Ga.	500	KMOP	Tucson, Ariz.	500d	WVLA	Virginia, Va.	1000	KVC	Victoria, Tex.	250
WOKA	Douglas, Ga.	1000d	KVEE	Conway, Ark.	5000	WVLA	Virginia, Va.	1000	WTWN	St. Johnsbury, Vt.	1000
WBRO	Waynesboro, Ga.	1000d	KLOM	Lompoc, Cal.	1000d	WVLA	Virginia, Va.	1000	WSTA	Charlotte Amalie, V.I.	1000
WBMK	West Point, Ga.	1000d	KFAC	Los Angeles, Calif.	5000	WVLA	Virginia, Va.	1000	WKEY	Covington, Va.	1000
KNUI	Makawao, Hawaii	1000	KCBS	Los Angeles, Calif.	5000	WVLA	Virginia, Va.	1000	WHAP	Hopewell, Va.	1000
KLIX	Twin Falls, Idaho	5000	KFAC	Los Angeles, Calif.	5000	WVLA	Virginia, Va.	1000	WJMA	Orange, Va.	1000
WIFE	Indianapolis, Ind.	5000	KFAC	Los Angeles, Calif.	5000	WVLA	Virginia, Va.	1000	KACT	Anacortes, Wash.	250
WALS	Perry, Iowa	5000	KFAC	Los Angeles, Calif.	5000	WVLA	Virginia, Va.	1000	KGTS	Paso, Wash.	250
KOKX	Keokuk, Iowa	1000d	KFAC	Los Angeles, Calif.	5000	WVLA	Virginia, Va.	1000	KAPA	Raymond, Wash.	1000
KFLA	Scott City, Kans.	5000	KFAC	Los Angeles, Calif.	5000	WVLA	Virginia, Va.	1000	KMEL	Wenatchee, Wash.	250
WTLT	Meadsontonville, Ky.	1000	KFAC	Los Angeles, Calif.	5000	WVLA	Virginia, Va.	1000	WHPA	Clarksburg, W. Va.	1000
WDOC	Prentissburg, Ky.	5000d	KFAC	Los Angeles, Calif.	5000	WVLA	Virginia, Va.	1000	WEPH	Martinsburg, W. Va.	1000
KIKS	Sulphur, La.	500d	KFAC	Los Angeles, Calif.	5000	WVLA	Virginia, Va.	1000	WMON	Montgomery, W. Va.	250
KUZN	W. Monroe, La.	1000d	KFAC	Los Angeles, Calif.	5000	WVLA	Virginia, Va.	1000	WVLA	Wetzel, W. Va.	500
WLOB	Portland, Maine	5000d	KFAC	Los Angeles, Calif.	5000	WVLA	Virginia, Va.	1000	WLDY	Ladysmith, Wis.	1000
W000	Worcester, Mass.	5000	KFAC	Los Angeles, Calif.	5000	WVLA	Virginia, Va.	1000	WRIT	Milwaukee, Wis.	1000d
WKNR	Dearborn, Mich.	5000	KFAC	Los Angeles, Calif.	5000	WVLA	Virginia, Va.	1000	KSQT	Jackson, Wyo.	1000
WCW	Traverse City, Mich.	5000d	KFAC	Los Angeles, Calif.	5000	WVLA	Virginia, Va.	1000	KYCN	Wheatland, Wyo.	250
KRBI	St. Peter, Minn.	1000d	KFAC	Los Angeles, Calif.	5000	WVLA	Virginia, Va.	1000	KWOR	Worland, Wyo.	1000
WXXX	Hattiesburg, Miss.	1000d	KFAC	Los Angeles, Calif.	5000	WVLA	Virginia, Va.	1000	1350—222.1		
KFSB	Joplin, Mo.	5000	KFAC	Los Angeles, Calif.	5000	WVLA	Virginia, Va.	1000	WJMT	Demopolis, Ala.	5000d
KFB	Great Falls, Mont.	5000	KFAC	Los Angeles, Calif.	5000	WVLA	Virginia, Va.	1000	WELB	Elba, Ala.	1000d
KGMT	Fairbury, Nebr.	500d	KFAC	Los Angeles, Calif.	5000	WVLA	Virginia, Va.	1000	WGD	Gadsden, Ala.	5000
WJLK	Asbury Park, N. J.	1000	KFAC	Los Angeles, Calif.	5000	WVLA	Virginia, Va.	1000	KLYD	Bakersfield, Calif.	1000d
WCAM	Camden, N. J.										

WHITE'S RADIO LOG

Kc.	Wave Length	W.P.	Kc.	Wave Length	W.P.	Kc.	Wave Length	W.P.
KWBA	Baytown, Tex.	1000	WBNX	New York, N.Y.	5000	KUKI	Ukiah, Calif.	1000
KRYS	Corpus Christi, Tex.	1000	WLOS	Asheville, N.C.	5000	KONG	Visalia, Calif.	1000
KXOL	Ft. Worth, Tex.	5000	WTOB	Winston-Salem, N.C.	5000	KRLN	Canon City, Colo.	250
WBOB	Galax, Va.	10000	WVIZ	Lorain, Ohio	5000	KDTA	Delta, Colo.	250
WHBG	Harrisonburg, Va.	50000	WPKO	Waverly, Ohio	10000	KFTM	Ft. Morgan, Colo.	250
KFDR	Grand Coulee, Wash.	10000	KSWO	Lawton, Okla.	1000	KBZZ	La Junta, Colo.	1000
KMO	Tacoma, Wash.	5000	KMSU	Ruskogee, Okla.	1000	WSTC	Stamford, Conn.	1000
WHJC	Matawan, W. Va.	10000	KCBH	Onan Lake, Okla.	1000	WLLI	Williamfield, Conn.	1000
KBOV	Ravenwood, W. Va.	10000	KRSV	Ontario, Ore.	5000	WFTI	Ft. Lauderdale, Fla.	1000
WBAV	Green Bay, Wis.	5000	WACB	Kittanning, Pa.	10000	WIRA	Ft. Pierce, Fla.	1000
WISV	Viroqua, Wis.	1000	WMLP	Milton, Pa.	10000	WVNE	Ft. Walton Bch., Fla.	10000
WANE	Menomonee, Wis.	10000	WAYZ	Waynesboro, Pa.	10000	WRHC	Jacksonville, Fla.	250
KVRS	Rock Springs, Wyo.	1000	WNRI	Weonsocket, R.I.	10000	WRPY	Perry, Fla.	1000
1370—218.8			WAGS	Bishopville, S.C.	10000	WTRR	Sanford, Fla.	1000
WBYE	Calera, Ala.	10000	WGUS	N. Augusta, S.C.	10000	WTRZ	Zephyr Hills, Fla.	250
KTPA	Prescott, Ark.	5000	KOTA	Rapid City, S. Dak.	5000	WCSA	Aima, Ga.	1000
KREL	Corona, Cal.	10000	WYSH	Clinton, Tenn.	10000	WCSG	Elberton, Ga.	1000
KQCY	Quincy, Calif.	5000	WGMM	Millington, Tenn.	5000	WNEX	Macon, Ga.	1000
KEEN	San Jose, Calif.	5000	KJET	Beaumont, Tex.	10000	WCGA	Moultrie, Ga.	1000
WIKM	Blountstown, Fla.	5000	KBWD	Brownwood, Tex.	10000	WCOH	Newnan, Ga.	1000
WKOS	Ocala, Fla.	5000	KCRM	Crane, Tex.	10000	WCSA	Savannah, Ga.	1000
WKCA	Pensacola, Fla.	5000	KTSM	El Paso, Tex.	5000	KART	Jerome, Idaho	250
WAXE	Vero Beach, Fla.	10000	KBPB	Pleasanton, Tex.	10000	KRPL	Moscow, Idaho	1000
WBRG	Jesup, Ga.	5000	WSYB	Rutland, Vt.	5000	KSPT	Sandpoint, Idaho	1000
WFDR	Manchester, Ga.	10000	WMBG	Richmond, Va.	5000	WDWS	Champaign, Ill.	1000
WKLE	Washington, Ga.	10000	KKEG	Everett, Wash.	5000	WGIL	Galesburg, Ill.	1000
WPRC	Lincoln, Ill.	10000	KPEG	Spokane, Wash.	5000	WRDZ	Evansburg, Ind.	1000
WTTT	Bloomington, Ind.	5000	WMTD	Hinton, W. Va.	10000	WBAT	Marion, Ind.	1000
WTLH	Gary, Ind.	10000	WBEL	Beloit, Wis.	5000	KCOG	Centerville, Ia.	500
KDTH	Dubuque, Iowa	5000	1390—215.7			KVFD	Fort Dodge, Iowa	1000
KGND	Dodge City, Kans.	5000	WHMA	Anniston, Ala.	5000	KAMR	Amor, Kans.	1000
KALN	Iola, Kans.	5000	KDQD	DeQueen, Ark.	5000	KAYS	Hays, Kans.	1000
WABD	Ft. Campbell, Ky.	5000	KQMN	Dozers, Ark.	10000	WCYN	Cynthiana, Ky.	250
WGOR	Grasson, Ky.	5000	KGER	Long Beach, Calif.	5000	WIEL	Elizabethtown, Ky.	1000
WTKY	Tompkinsville, Ky.	10000	KCEY	Turlock, Calif.	5000	WFTG	London, Ky.	250
KAPB	Marksville, La.	10000	KFML	Denver, Colo.	5000	WFRP	Hammond, La.	250
WDEA	Ellsworth, Me.	5000	WAVP	Avon Park, Fla.	10000	KAKO	Lake Charles, La.	1000
WMHI	Bradbrooks Hts., Md.	5000	WJUP	Gainesville, Fla.	5000	WRDQ	Augusta, La.	1000
WKIK	Leonardtown, Md.	10000	WISK	Americus, Ga.	5000	WIDE	Biddeford, Maine	1000
WGHN	Grand Haven, Mich.	5000	WNUS	Chicago, Ill.	5000	WVIN	Baltimore, Md.	1000
KSUM	Fairmont, Minn.	10000	WFIW	Fairfield, Ill.	10000	WALE	Fall River, Mass.	1000
WMGO	Canton, Miss.	10000	WJCD	Seymour, Ind.	10000	WLLH	Lowell, Mass.	1000
KWRT	Boonville, Mo.	10000	KCLN	Clinton, Iowa	10000	WHMP	Northampton, Mass.	1000
WJFM	Grand Forks, Mo.	10000	KCBC	Des Moines, Iowa	5000	WKFR	Battle Creek, Mich.	10000
KXLF	Butte, Mont.	5000	KNCK	Concordia, Kans.	5000	WJLB	Detroit, Mich.	10000
KAWL	York, Nebr.	5000	WANY	Albany, Ky.	10000	WHDP	Houghton, Mich.	250
KWFE	Manchester, N.H.	5000	WKIC	Hazard, Ky.	5000	WMAB	Munising, Mich.	1000
WALK	Patchogue, N.Y.	5000	KFRD	Franklin, La.	5000	WSAM	Saginaw, Mich.	1000
WSAY	Rochester, N.Y.	5000	WEGP	Presque Isle, Me.	5000	WSJM	St. Joseph, Mich.	1000
WLTC	Gastonia, N.C.	5000	KJPW	Waynesville, Mo.	10000	WTCM	Traverse City, Mich.	1000
WTFB	Tabor City, N.C.	5000	WCAT	Orange, Mass.	10000	KEYL	Long Prairie, Minn.	1000
KFJM	Grand Forks, N.D.	5000	WPLM	Plymouth, Mass.	5000	KMH	Marshall, Minn.	1000
WSPQ	Toledo, Ohio	5000	WCHR	Charlotte, Mich.	5000	WMIN	Mpls.-St. Paul, Minn.	1000
KYVL	Holdenville, Okla.	5000	KAOH	Duluth, Minn.	5000	WHLB	Virginia, Minn.	1000
KAST	Astoria, Ore.	1000	KFO	Dwatonna, Minn.	5000	WBOU	Boonville, Miss.	250
WOTR	Corry, Pa.	1000	WROA	Gulfport, Miss.	10000	WNAG	Grenada, Miss.	250
WPZA	Pottstown, Pa.	10000	WQIC	Meridian, Miss.	5000	WFOR	Hattiesburg, Miss.	250
WKMC	Roaring Sprgs., Pa.	10000	KJPW	Waynesville, Mo.	10000	WJQS	Jackson, Miss.	250
WIVV	Vieques, P.R.	1000	KENN	Farmington, N.Mex.	5000	WMBC	Macon, Miss.	1000
WKFJ	Wickford, R.I.	5000	KHOB	Hobbs, N.Mex.	5000	KFRU	Columbia, Mo.	1000
WDET	Chattanooga, Tenn.	5000	WEOK	Poughkeepsie, N.Y.	5000	KJCF	Festus, Mo.	250
WOXE	Lawrenceburg, Tenn.	10000	WRIV	Riverhead, N.Y.	10000	KSTP	St. Joseph, Mo.	1000
WRGS	Rogersville, Tenn.	10000	WEDB	Syracuse, N.Y.	5000	KRS	Springfield, Mo.	1000
KOKE	Austin, Tex.	10000	WADA	Shelby, N.C.	1000	KDRG	Deer Lodge, Mont.	250
KFRQ	Longview, Tex.	1000	WJRM	Troy, N.C.	5000	KXGN	Glendive, Mont.	250
KPOS	Post, Tex.	5000	KLPM	Minot, N.Dak.	5000	KARR	Great Falls, Mont.	1000
KSPY	Salt Lake City, Utah	10000	WOMP	Bellefontaine, Ohio	5000	KCOW	Alliance, Nebr.	1000
WBTN	Bartington, Vt.	10000	WMPQ	Middleport, Pomeroy, O.	5000	KLIN	Lincoln, Neb.	1000
WHEE	Marionville, Va.	5000	WFMJ	Youngstown, Ohio	10000	KWHI	Henderson, Nev.	250
WJSS	South Hill, Va.	5000	KCRC	Enid, Okla.	1000	KWNA	Winnemucca, Nev.	1000
KPOR	Quincy, Wash.	10000	KSLM	Salem, Ore.	5000	WBRL	Berlin, N.H.	250
WEIF	Moundsville, W. Va.	10000	WLAN	Lancaster, Pa.	5000	WJSL	Hanover, N.H.	1000
WCCN	Neillsville, Wis.	5000	WRSC	State College, Pa.	10000	WLTN	Littleton, N.H.	250
KVVO	Cheyenne, Wyo.	1000	WISA	Isabella, P.R.	1000	KTRC	Santa Fe, N.M.	1000
1380—217.3			WHPB	Belton, S.C.	10000	KCHS	Truth or Consequences, New Mexico	250
WRAB	Arab, Ala.	10000	WCSC	Charleston, S.C.	5000	KTNM	Tucuman, N.M.	1000
WGYV	Greenville, Ala.	10000	KJAM	Madison, S.D.	5000	WOND	Pleasantville, N.J.	1000
KDXE	N. Little Rock, Ark.	10000	WTJS	Jackson, Tenn.	5000	WABY	Albany, N.Y.	1000
KBVM	Lancaster, Ark.	10000	KULP	El Campo, Tex.	5000	WYSL	Buffalo, N.Y.	10000
KGMS	Sacramento, Calif.	10000	KBEC	Waxahachie, Tex.	5000	WSLB	Ogdensburg, N.Y.	1000
KBSW	Salinas, Calif.	5000	KLGN	Logan, Utah	10000	WBMA	Beaufort, N.C.	250
KFLJ	Walsenburg, Colo.	10000	WEAM	Arlington, Va.	5000	WBG	Greensboro, N.C.	1000
WAMS	Wilmington, Del.	5000	WROD	Lynchburg, Va.	10000	WSFB	Raeford, N.C.	1000
WLIZ	Lake Worth, Fla.	5000	WKLY	Keyser, W. Va.	10000	WLSE	Wallace, N.C.	1000
WQXQ	Ormond Bch., Fla.	10000	KBBO	Yakima, Wash.	10000	WHCC	Waynesville, N.C.	1000
WLKY	St. Petersburg, Fla.	5000	1400—214.2			WCCC	Weldon, N.C.	10000
WAOK	Atlanta, Ga.	5000	WMSL	Decatur, Ala.	1000	KEYJ	Jamesstown, N.Dak.	1000
WSIS	Atlanta, Ga.	5000	WXAL	Demopolis, Ala.	10000	WMAN	Manassasfield, Ohio	10000
KPOI	Honolulu, Hawaii	5000	WFFA	Ft. Payne, Ala.	10000	WPAY	Portsmouth, Ohio	1000
WCMC	Brazil, Ind.	5000	WJLD	Homewood, Ala.	10000	KWDO	Wadon, Ohio	1000
WKJG	Ft. Wayne, Ind.	5000	WJHO	Opelika, Ala.	10000	KTCM	McAlester, Okla.	250
KCIM	Carroll, Iowa	1000	KSEW	Sitka, Alaska	250	KNOR	Norman, Okla.	250
KLII	Washington, Iowa	5000	KWYN	Wynne, Ark.	1000	KNND	Cottage Grove, Oreg.	10000
WMTA	Central City, Ky.	5000	KJKJ	Flagstaff, Ariz.	250	KJDY	John Day, Ore.	250
WKYK	Winchester, Ky.	10000	KXIX	Phoenix, Ariz.	1000	WEST	Easton, Pa.	1000
WYNK	Baton Rouge, La.	5000	KTUC	Tucson, Ariz.	250	WJET	Erie, Pa.	250
WKTJ	Farmington, Me.	10000	KVOY	Yuma, Ariz.	250	WFCC	Harrisburg, Pa.	10000
WTHP	Port Huron, Mich.	10000	KELD	El Dorado, Ark.	1000	WICK	Scranston, Pa.	250
WPLB	Greenville, Mich.	10000	KCLA	Pine Bluff, Ark.	1000	WRAC	Williamsport, Pa.	1000
KLIZ	Brainerd, Minn.	10000	KWYN	Wynne, Ark.	1000	WVOZ	Carolina, P. R.	250
KAGE	Winona, Minn.	10000	KPAT	Berkeley, Calif.	250	WCOS	Columbia, S.C.	1000
WDTA	Winona, Miss.	5000	KREO	Indio, Calif.	250	WGTN	Georgetown, S.C.	1000
KWK	St. Louis, Mo.	5000	KQMS	Redding, Calif.	250	WHCQ	Spartanburg, S.C.	10000
KUYR	Holdrege, Nebr.	5000	KSLY	San Luis Obispo, Cal.	250	WJZM	Clarksville, Tenn.	1000
WBXB	Petersmouth, N.H.	1000	KSPA	Santa Paula, Calif.	250	WHUB	Cookeville, Tenn.	1000
WAWZ	Zarephath, N.J.	5000	KHOE	Truckee, Calif.	1000	WLSB	Copperhill, Tenn.	1000
WFSR	Bath, N.Y.	5000				WGAP	Maryville, Tenn.	10000
						WHAL	Shelbyville, Tenn.	1000
						KRUN	Ballinger, Tex.	250

Kc.	Wave Length	W.P.	Kc.	Wave Length	W.P.	Kc.	Wave Length	W.P.	Kc.	Wave Length	W.P.				
KBYG	Big Springs, Tex.	1000	WDBF	Delray Beach, Fla.	5000d	1440-208.2						WTCO	Campbellsville, Ky.	1000	
KUNO	Corpus Christi, Tex.	250	WETH	St. Augustine, Fla.	1000d	WHYH	Montgomery, Ala.	5000	WXLL	Manchester, N.H.	1000	WPAD	Panama, Fla.	1000	
K25	nr. Galveston, Tex.	1000	WAVO	Avondale Estates, Ga.	1000d	KDOT	Scottsdale, Ariz.	5000d	KSIG	Crowley, La.	1000	KSNQ	Natchitoches, La.	1000	
KGVI	Greenville, Tex.	1000	WRBL	Columbus, Ga.	5000	KHOG	Fayetteville, Ark.	1000d	KOKY	Little Rock, Ark.	5000d	WNPS	New Orleans, La.	250	
KEBE	Greenville, Tex.	1000	WPEH	Louisville, Ga.	1000d	KOKY	Little Rock, Ark.	5000d	KVON	Napa, Calif.	500	WLKN	Lincoln, Me.	1000	
KIUN	Pecos, Tex.	1000	WLET	Toccoa, Ga.	5000d	KPRO	Riverside, Calif.	1000	KCOY	Santa Maria, Calif.	1000	WTRD	Rockland, Maine	250	
KEYE	Perryton, Tex.	250	KLHL	Honolulu, Hawaii	5000	WBS	Bristol, Conn.	5000	WABR	Winter Park, Fla.	5000d	WATZ	Alpena Township, Michigan	1000	
KVOP	Plainview, Tex.	1000	WINI	Murphysboro, Ill.	500d	WGCC	Bremen, Ga.	1000d	WGIG	Brunswick, Ga.	5000	WHTC	Holland, Mich.	1000	
KDWT	Stamford, Tex.	1000	WIMS	Michigan City, Ind.	5000d	WRAJ	Anna, Ill.	500d	WIOK	Normal, Ill.	1000d	WMJQ	Iron Mtn., Mich.	250	
KTEM	Temple, Tex.	1000	WOC	Davenport, Iowa	5000	WGEM	Quincy, Ill.	5000	WPBS	Paris, Ill.	1000d	WKLA	Ludington, Mich.	1000	
KTFN	Texarkana, Tex.	1000	WAMM	Flint, Mich.	1000	WRBK	Rockford, Ill.	5000	WPBW	Portland, Ind.	5000	WHLN	Port Huron, Mich.	1000	
KVOU	Uvalde, Tex.	250	WKPR	Kalamazoo, Mich.	1000d	WPGW	Portland, Ind.	5000	KCHE	Cherokee, Iowa	500d	KATE	Albert Lea, Minn.	250	
KIXX	Provo, Utah	250	WTRC	Ashland, Ky.	5000d	KEWI	Topeka, Kans.	5000	WCDS	Glasgow, Ky.	1000d	KBUN	Bemidji, Minn.	1000	
WDOT	Burlington, Vt.	1000	WHBN	Harrodsburg, Ky.	1000d	WCDS	Glasgow, Ky.	1000d	WELX	Paris, Ky.	1000d	KBMW	Wahpeton, N.D.	1000	
WINA	Charlottesville, Va.	1000	WJES	Owensboro, Ky.	5000	WEZJ	Williamsburg, Ky.	1000d	KRAM	St. Cloud, Minn.	1000	WELY	Ely, Minn.	1000	
WHHV	Hillsville, Va.	1000	KPEL	Lafayette, La.	1000	KMLB	Monroe, La.	5000	WRXO	Clarksdale, Miss.	1000	KFSM	St. Cloud, Minn.	1000	
WHIH	Fortsmouth, Va.	1000	WBSM	New Bedford, Mass.	1000d	WJAB	Westbrook, Me.	5000d	WCJU	Columbia, Miss.	250	WJXN	Jackson, Miss.	250	
WHLF	So. Boston, Va.	1000	WBEC	Pittsfield, Mass.	5000	WABW	Warner, N.Y.	1000d	WOKK	Meridian, Miss.	1000	WNAI	Natchez, Miss.	250	
WINC	Winchester, Va.	1000	WAMM	Flint, Mich.	1000	WBCM	Way City, Mich.	1000	WROB	West Point, Miss.	1000	KFTW	Fredricktown, Mo.	1000	
KEDO	Longview, Wash.	250	WKPR	Kalamazoo, Mich.	1000d	WDOW	Owagawie, Mich.	1000d	WMBH	Jonkin, Mo.	1000	KIRX	Keosauqua, Mo.	1000	
KRSC	Othello, Wash.	250	KTOE	Mankato, Minn.	5000	WDOB	Green Bay, Wis.	5000	KOKO	Warrensburg, Mo.	1000	KWPM	West Plains, Mo.	1000	
KTNT	Tacoma, Wash.	1000	WSUH	Oxford, Miss.	1000d	KQRS	Golden Valley, Minn.	5000d	KXKL	Bozeman, Mont.	1000	KXLL	Missoula, Mont.	250	
WBOY	Clarksburg, W. Va.	1000	WQBC	Vicksburg, Miss.	1000	WHHT	Lucedale, Miss.	1000d	KUDI	Great Falls, Mont.	1000	KRBN	Red Lodge, Mont.	1000	
WRON	Ronceverte, W. Va.	1000	KBTN	Neosho, Mo.	500d	WSEL	Pontotoc, Miss.	1000d	KXLL	Missoula, Mont.	250	KVKC	Wolf Point, Mont.	1000	
WSPZ	Spencer, W. Va.	1000	K00M	Omaha, Nebr.	1000d	WYAB	Waynesville, N.C.	1000d	KONE	Reno, Nev.	250	KWBE	Cedar Rapids, Nev.	1000	
KWKV	Whiting, W. Va.	250	KSYX	Santa Rosa, N. Mex.	1000d	WJAL	Waynesville, N.C.	1000d	WKXL	Concord, N.H.	1000	WFGF	Atlantic City, N.J.	1000	
WBTH	Williamson, W. Va.	1000	WACK	Newark, N.Y.	500	WABW	Waynesville, N.C.	1000d	WCTC	New Brunswick, N.J.	1000	KLOS	Albuquerque, N.Mex.	250	
WATW	Ashland, Wis.	1000	WLN A	Peekskill, N.Y.	1000d	WBCM	Way City, Mich.	1000	KLMX	Clayton, N.Mex.	1000d	KBOE	Las Cruces, N.Mex.	250	
WBIZ	Eau Claire, Wis.	1000	WMYN	Mayodan, N.C.	500	WDOW	Owagawie, Mich.	1000d	KENM	Kenner, N.Mex.	1000	WCLJ	Corning, N.Mex.	1000	
WOUZ	Green Bay, Wis.	1000	WGAS	S. Gastonia, N.C.	500d	WGBR	Red Lion, Pa.	1000d	WSSC	Green Falls, N.Y.	1000d	WHDL	Olean, N.Y.	1000	
WRJN	Racine, Wis.	1000	WVOT	Wilson, N.C.	1000d	WQK	Greenville, S.C.	5000	WKIP	Poughkeepsie, N.Y.	1000	WKAL	Rome, N.Y.	250	
WROB	Reedsburg, Wis.	1000	WHK	Cleveland, Ohio	5000	WHHL	Holly Hill, S.C.	1000d	WATA	Boone, N.C.	1000	WGNQ	Gastonia, N.C.	1000	
WRIG	Wausau, Wis.	1000	KYNG	Coos Bay, Oreg.	5000	WZYX	Cowan, Tenn.	1000d	WZLS	Henderson, N.C.	1000	WHKP	Hendersonville, N.C.	1000	
KATI	Casper, Wyo.	1000	WCOJ	Chester, Pa.	5000	KFDA	Amarillo, Tex.	5000	WHIT	New Bern, N.C.	250	WFBS	Spring Lake, N.C.	1000	
KODI	Cody, Wyo.	1000	WCED	DuBois, Pa.	5000	KEYS	Corpus Christi, Tex.	1000	WGCA	Rugby, N.Dak.	250	WJCV	Dover, Ohio	1000d	
1410-212.6												WMOH	Hamilton, Ohio	1000d	
WUNI	Mobile, Ala.	5000	WEUC	Ponce, P.R.	1000	KDNT	Denton, Tex.	5000	WVLD	Altus, Okla.	1000	KGFF	Shawnee, Okla.	1000	
WRCK	Tuscumbia, Ala.	5000	WCRE	Cheraw, S.C.	1000d	KWEL	Midland, Tex.	5000	KSJW	Woodward, Okla.	1000	KORE	Eugene, Oreg.	1000	
KTCS	Fort Smith, Ark.	1000	WEMB	Erwin, Tenn.	5000d	KETX	Livingston, Tex.	5000	KFLW	Klamath Falls, Oreg.	1000	KLBM	La Grande, Oreg.	1000	
KERN	Bakersfield, Calif.	1000	WFSR	Pulaski, Tenn.	1000	WKLY	Blackstone, Va.	5000	KBPS	Portland, Ore.	250	WVGO	Erie, Pa.	1000d	
KRML	Carmel, Calif.	5000	KFRN	Bonham, Tex.	250d	WHRN	Herdon, Va.	5000	WADB	Indiana, Pa.	1000	WPAM	Pottsville, Pa.	1000	
KKOK	Lompoc, Calif.	5000	KRFK	Lufkin, Tex.	1000d	WHIS	Bluefield, W. Va.	5000	WMPT	So. Williamsport, Pa.	250	WJPA	Washington, Pa.	250	
KMYC	Marquette, Calif.	5000	KGNB	New Braunfels, Tex.	1000d	WJMR	Morgantown, W. Va.	5000	WRRI	W. Warwick, R.I.	1000	WQSN	Charleston, S.C.	1000	
KCAL	Redlands, Calif.	5000d	KPEP	San Angelo, Tex.	1000d	WHIS	Bluefield, W. Va.	5000	WQSN	Charleston, S.C.	1000	WCRS	Greenville, S.C.	1000	
KCOL	Ft. Collins, Colo.	1000	WWSR	St. Albans, Vt.	1000d	WJPG	Green Bay, Wis.	5000	WYBY	Myrtle Beach, S.C.	1000	WHSC	Hartsville, S.C.	1000	
WPOP	Hartford, Conn.	5000	WDDY	Gloucester, Va.	1000d	WJPG	Green Bay, Wis.	5000	WBSB	Belle Fourche, S. Dak.	1000	KYNT	Yankton, S. D.	1000	
WDOV	Dover, Del.	5000	WKCW	Warrenton, Va.	5000d	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000	WMOQ	Chattanooga, Tenn.	1000	
WMYR	Fort Myers, Fla.	5000	KITI	Chehalis-Centralia, Wash.	1000d	WJPG	Green Bay, Wis.	5000	WDSG	Dyersburg, Tenn.	1000	WWSG	Greenville, Tenn.	250	
WBIL	Leshburg, Fla.	5000d	KREN	Renton, Wash.	5000	WJPG	Green Bay, Wis.	5000	WLAJ	State College, Pa.	1000d	WLF A	Lafayette, Tenn.	1000	
WONS	Tallahassee, Fla.	5000	KUYA	Walla Walla, Wash.	5000	WJPG	Green Bay, Wis.	5000	WMAJ	State College, Pa.	1000d	WNGS	Murfreesboro, Tenn.	1000	
WGRJ	Griffin, Ga.	1000d	WPLY	Plymouth, Wis.	500d	WJPG	Green Bay, Wis.	5000	WJPA	Washington, Pa.	250	KAYC	Beaumont, Tex.	1000	
WSNE	Cummings, Ga.	1000d	1430-209.7				WJPG	Green Bay, Wis.	5000	WBUM	Carroll Springs, Tex.	250	KCTI	Gonzales, Tex.	250
WDXA	McRae, Ga.	1000d	WFHK	Pell City, Ala.	1000d	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000	KMBL	Junction, Tex.	250	
WLAQ	Rome, Ga.	1000	KHBM	Monticello, Ark.	1000d	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000	KCYL	Limpasas, Tex.	250	
WRMN	Elgin, Ill.	1000d	KAMP	El Centro, Calif.	1000d	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000	KAMT	Marshall, Tex.	250	
WTIM	Taylorville, Ill.	1000d	KARM	Fresno, Calif.	5000	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000	KAMY	McCamey, Tex.	250	
WAZY	Lafayette, Ind.	1000d	KALI	San Gabriel, Cal.	5000	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000	KNET	Palestine, Tex.	250	
KGRN	Grinnell, Iowa	500d	KJAY	Sacramento, Calif.	5000	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000	KCURA	Moab, Utah	1000	
KLEM	Le Mars, Iowa	1000d	KGBA	Santa Clara, Cal.	1000	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000	KEYY	Provo, Utah	1000	
KCLO	Leavenworth, Kans.	5000d	KOSI	Aurora, Colo.	5000	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000	WNSD	St. George, Utah	250	
KWBB	Wichita, Kans.	5000	WIII	Homestead, Fla.	5000	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000	WWSA	Brattleboro, Vt.	1000	
WLBJ	Bowling Green, Ky.	5000	WLAK	Lakeland, Fla.	5000	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000	WFRF	Front Royal, Va.	1000	
WHLN	Harlan, Ky.	5000d	WPCF	Panama City, Fla.	1000	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000	WENZ	Highland Springs, Va.	250	
KDBS	Alexandria, La.	1000d	WGFS	Covington, Ga.	1000d	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000	WREL	Lexington, Va.	1000	
KDDW	Waldorf, Md.	1000d	WRCD	Dalton, Ga.	1000d	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000	WVMA	Martinsville, Va.	1000	
WHAG	Halfway, Md.	1000d	WVGS	Tifton, Ga.	5000	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000	KBKW	Aberdeen, Wash.	1000	
WOKW	Brookton, Mass.	1000d	WEFP	Highland Park, Ill.	1000d	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000	KCLX	Colfax, Wash.	1000	
WGRD	Grand Rap. Mich.	1000d	WCMY	Ottawa, Ill.	5000	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000	KONP	Port Angeles, Wash.	250	
KLFD	Litchfield, Minn.	5000	WIRE	Indianapolis, Ind.	5000	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000	KAYE	Puyallup, Wash.	1000	
KRWB	Roseau, Minn.	5000	KASI	Ames, Iowa	1000d	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000				
WDSK	Cleveland, Miss.	5000d	KMRC	Morgan City, La.	5000	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000				
WBKN	Newton, Miss.	5000	WNAV	Annapolis, Md.	5000	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000				
WNOP	North Platte, Neb.	1000	WTTT	Amherst, Mass.	5000	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000				
WHTG	Asbury, N. J.	5000	WHIL	Medford, Mass.	5000	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000				
WDOE	Dunkirk, N.Y.	1000	WION	Tonia, Mich.	5000	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000				
WELM	Elmira, N.Y.	1000	WBRB	Mt. Clemens, Mich.	5000	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000				
WSET	Glen Falls, N.Y.	1000d	WLAU	Laurel, Miss.	5000d	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000				
WTOI	Watertown, N.Y.	5000	KAOL	Carrollton, Mo.	5000	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000				
WYCB	Shallotte, N.C.	1000d	WIL ST.	St. Louis, Mo.	5000	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000				
WEGO	Concord, N.C.	1000d	KRGI	Grand Island, Nebr.	5000	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000				
WNSR	Durham, N.C.	1000d	WNJR	Newark, N.J.	5000	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000				
WING	Dayton, Ohio	5000	KGFL	Roswell, N.M.	5000d	WJPG	Green Bay, Wis.	5000	WVLD	Altus, Okla.	1000				
KPAM	Portland, Oreg.	5000d	WENE	Endicott, N.Y.	5000	WJPG	Green Bay, Wis								

Kc.	Wave Length	W.P.	Kc.	Wave Length	W.P.	Kc.	Wave Length	W.P.	Kc.	Wave Length	W.P.
KROB	Robstown, Tex.	500d	WORT	New Smyrna Beh., Fla.	250	WKKS	Vanceburg, Ky.	250d	WILA	Danville, Va.	1000d
KSTV	Stephenville, Tex.	250d	WYOU	Tampa, Fla.	10000d	WABL	Amite, La.	500d	WPUV	Pulaski, Va.	5000d
KGA	Spokane, Wash.	5000d	WSMA	Smyrna, Ga.	10000d	KLLA	Leesville, La.	1000	WTTN	Watertown, Wis.	1000d
WAUX	Waukesha, Wis.	10000d	WJIL	Jacksonville, Ill.	1000d	KMAR	Winnsboro, La.	1000	1590—188.7		
1520—197.4			WCSJ	Morris, Ill.	250d	WAGE	Towson, Md.	5000d	WTAM	Atmore, Ala.	5000d
KGHT	Hollister, Calif.	500	WPCF	Corydon, Ind.	250d	WTAU	Taunton, Mass.	1000	WBIB	Centerville, Ala.	5000d
KACY	Port Huemeo, Calif.	10000	WCTW	New Castle, Ind.	250	WMLO	Beverly, Mass.	500d	WBNA	Tuscumbia, Ala.	5000
WTLN	Apopka, Fla.	5000d	WKQV	Sullivan, Ind.	250d	WDEW	Westfield, Mass.	1000d	KPBA	Pine Bluff, Ark.	1000d
WGNP	Indian Rocks Beach, Fla.	1000d	KIWA	Sheldon, Iowa	500d	WMRP	Flint, Mich.	1000d	KLIV	San Jose, Cal.	5000d
WIXX	Oakland Park, Fla.	1000d	KEDD	Dodge City, Kans.	1000d	WFRU	Grand Rapids, Mich.	1000d	KUDU	Ventura, Cal.	1000d
WHOW	Clinton, Ill.	5000d	KNIC	Winfield, Kan.	250d	KUXL	Golden Valley, Minn.	1000d	KCIN	Victorville, Calif.	500d
WLUV	Loves Park, Ill.	500d	WIRV	Irvine, Ky.	250d	WONA	Winona, Miss.	1000d	WBRV	Waterbury, Conn.	500d
WVSL	Shelbyville, Ind.	1000	WMSJ	Morganfield, Ky.	250d	KLEX	Lexington, Mo.	250d	WBOY	Clewiston, Fla.	500d
KSIB	Creston, Iowa	1000d	WLUX	Baton Rouge, La.	5000d	WAFS	Amsterdam, N.Y.	1000d	WILZ	St. Petersburg Beach, Fla.	1000d
WRSS	Stanford, Ky.	500d	KOKA	Shreveport, La.	1000d	WFLR	Dundee, N.Y.	1000d	WELE	S. Daytona Bch., Fla.	1000d
KXKW	Lafayette, La.	1000	WSER	Elkton, Md.	1000d	WBUZ	Fredonia, N.Y.	250d	WALG	Albany, Ga.	1000
WKJR	Muskegon Hts., Mich.	1000d	WSHN	Fremont, Mich.	1000d	WAPC	Riverhead, N.Y.	1000d	WLFA	Lafayette, Ga.	5000d
WYNZ	Ypsilanti, Mich.	1000d	WOKJ	Jackson, Miss.	5000d	WTLK	Taylorville, N.C.	500	WTFG	Thomaston, Ga.	500d
KOLM	Rochester, Minn.	1000d	WSAO	Senatobia, Miss.	5000d	WNCA	Siler City, N.C.	1000d	WNMP	Evanson, Ill.	1000d
WDSL	Mocksville, N.C.	5000	KBLR	Bolivar, Mo.	250d	WCLW	Mansfield, O.	1000d	WAGE	Galesburg, Ill.	5000d
WSLT	Ocean City-Somers Pt., N. J.	1000d	KGIO	St. Joseph, Mo.	500d	WPTW	Piqua, Ohio	250d	WPCO	Mt. Vernon, Ind.	5000
KHIP	Albuquerque, N. Mex.	5000d	KICS	Hastings, Neb.	500d	KTAT	Frederick, Okla.	250d	KWBG	Boone, Iowa	1000
WFKY	Bufileo, N. Y.	5000d	WCCR	Canandaigua, N. Y.	250d	KOLS	Pyro, Okla.	1000d	WGBB	Great Bend, Kans.	5000
WBNO	Bryan, Ohio	500d	WBAZ	Kingston, N. Y.	1000d	WVAY	Forest Grove, Oreg.	1000d	WVBN	Lebanon, Ky.	1000d
WINW	Canton, O.	500d	WBVM	Utica, N. Y.	500d	KOHU	Hermiston, Oreg.	1000d	KEVL	White Castle, La.	1000d
WKNT	Kent, O.	500d	WXYX	Greenville, N. C.	500d	WPGM	Danville, Penn.	1000d	WETT	Ocean City, Md.	1000
WTTD	Toledo, O.	5000d	WMLD	Raleigh, N. C.	1000d	WBUX	Doylestown, Pa.	5000d	WDOG	Coldwater, Mich.	1000d
KOMA	Oklahoma City, Okla.	1000d	WMTN	Troy, N. C.	1000d	WQTW	Latrobe, Pa.	1000d	WMIC	St. Helen, Mich.	500d
KYMN	Oregon City, Ore.	250	WUPT	Winston-Salem, N. C.	1000d	WFGN	Ganefey, S. C.	250d	KRAD	E. Grand Forks, Minn.	1000d
WCHE	West Chester, Pa.	250	KUTT	Fargo, N. D.	5000d	WJES	Johnston, S. C.	250	WYUN	Jackson, Miss.	1000d
WRAI	Rio Piedras, P. R.	250	WDLR	Delaware, Ohio	500d	WLSG	Loris, S. C.	1000d	KDEX	Dexter, Mo.	1000d
WBHT	Brownsville, Tenn.	250d	KMAD	Madill, Okla.	250	WHLP	Centerville, Tenn.	1000d	KPRS	Kansas City, Mo.	1000d
WIDD	Elizabethton, Tenn.	250d	KREK	Sapulpa, Okla.	500d	WCLE	Cleveland, Tenn.	1000d	KCLU	Rolla, Mo.	1000d
1530—196.1			WLOA	Lawdoek, Pa.	1000d	WTRB	Ripley, Tenn.	1000d	KSPN	Salt Lake City, Utah	5000
WLCB	Moulton, Ala.	1000d	WKFE	Yaupo, P. R.	250	KZOL	Farwell, Tex.	250d	WERA	Plainfield, N. J.	5000
WCTR	Chestertown, Mo.	1530	WBSC	Bennettsville, S. C.	1000d	KVLG	La Grange, Tex.	250d	WAUB	Auburn, N. Y.	500d
KCAT	Pine Bluff, Ark.	250d	WTHB	N. Augusta, S. C.	1000d	KTER	Terrell, Tex.	250d	WEHM	Elmira Heights-Horseheads, N. Y.	500d
KTMN	Truman, Ark.	250d	KCAN	Canyon, Tex.	1000	KWIC	Salt Lake City, Utah	500d	WCSO	Salamanca, N. Y.	5000d
KFBK	Sacramento, Calif.	5000d	KWBC	Navasota, Tex.	250d	WSWV	Pennington Gap, Va.	1000d	WVGO	Cherryville, N. C.	500d
KRYT	Colorado Springs, Colo.	1000d	KYKE	Bristol, Tenn.	1000d	WYTI	Rocky Mount, Va.	1000d	WVOE	Chaburton, N. C.	1000
WENG	Englewood, Fla.	1000	WPTN	Cookeville, Tenn.	250d	WAPL	Appleton, Wis.	1000d	WVNC	Greenville, N. C.	500
WTTI	Dalton, Ga.	1000d	WKPT	Kingsport, Tenn.	1000d	WEYY	Talladega, Ala.	1000d	WNOT	High Point, N. C.	1000d
KNBI	Norton, Kan.	1000d	KCOM	Comanche, Tex.	250d	KYND	Tempe, Ariz.	5000d	WAKR	Akron, Ohio	5000
KWLA	Many, La.	1000d	WKBA	Vinton, Va.	1000d	KFCP	Marked Tree, Ark.	250d	WWSR	Hillsboro, Ohio	500d
WTCR	Chestertown, Md.	250d	WKVK	Virginia Beach, Va.	5000d	KYAN	Van Buren, Ark.	1000d	KHEN	Henryetta, Okla.	500d
WRPM	Poplarville, Miss.	1000d	WXVA	Charlestown, W. Va.	5000d	KMRE	Anderson, Cal.	1000d	KTIL	Tillamook, Oreg.	1000d
WTHM	Lapeer, Mich.	5000d	KOQT	Bellingham, Wash.	1000d	KIPW	Merced, Calif.	500d	WZUM	Charnegie, Pa.	1000d
WERX	Wyoming, Mich.	500d	KGAR	Vancouver, Wash.	1000d	KDAY	Santa Monica, Cal.	5000d	WCBG	Chambersburg, Pa.	1000
KSMW	Shakopee, Minn.	250	WMIR	Lake Geneva, Wis.	1000d	KHUM	Santa Rosa, Calif.	500d	WXRJ	Guayama, P. R.	1000
KMAM	Baker, Mo.	5000d	WMAD	Madison, Wis.	500d	KPIK	Colorado Sprrs., Colo.	5000d	WYNG	Warwick, R. I.	1000d
WCXY	Cincinnati, Ohio	5000d	1560—192.3			WVLA	Gainesville, Ga.	5000d	WABV	Abbeville, S. C.	1000d
WBST	Shenandoah, Pa.	250d	WAGC	Centre, Ala.	1000d	WKIG	Glenville, Ga.	1000d	WACA	Canden, S. C.	1000d
WUPR	Utahdo, P. R.	1000d	KBIB	Monette, Ark.	250d	WKKD	Aurora, Ill.	250d	WCCR	Pierre, S. D.	250
KGTN	Georgetown, Tex.	1000d	KPMC	Bakersfield, Calif.	1000d	WQDN	DuQuoin, Ill.	250d	KJCS	Jonosboro, Tenn.	5000d
KGBT	Hartlingen, Tex.	5000d	KIQS	Willows, Calif.	250d	WBBA	Pittsfield, Ill.	250d	WDBL	Springfield, Tenn.	1000d
KCLR	Rails, Tex.	1000d	WBYS	Canton, Ill.	250d	WKID	Urbana, Ill.	250d	KGAS	Carthage, Tex.	500d
WQVA	Quantico, Va.	1000d	WVAK	Paoli, Ind.	250d	WKWB	Waukegan, Ill.	250d	KINT	E. Paso, Tex.	1000d
KCHY	Cheyenne, Wyo.	2500	WRIN	Rensselaer, Ind.	250d	WVPE	Eastman, Ga.	500d	KYOK	Yokohama, Tex.	5000
1540—195.0			KSWI	Council Bluffs, Iowa	1000d	WVLA	Gainesville, Ga.	5000d	KCBD	Lubbock, Tex.	5000
RPOL	Los Angeles, Calif.	5000d	KABI	Abilene, Kan.	250d	WKIG	Glenville, Ga.	1000d	KMBX	Mexia, Tex.	1000
WBSR	Pensacola, Fla.	1000	WPHN	Liberty, Ky.	250d	WKKD	Aurora, Ill.	250d	WTSD	Sinton, Tex.	1000
WOGA	Sylvestor, Ga.	1000d	WDXR	Paducah, Ky.	1000	WQDN	DuQuoin, Ill.	250d	KGEE	Cherokee, Md.	500
WSMI	Litchfield, Ill.	1000d	WBGS	Sidell, La.	1000d	WBBA	Pittsfield, Ill.	250d	WRGM	Richmond, Va.	5000d
WBNL	Boonville, Ind.	250d	KBEV	Blue Earth, Minn.	250	WKID	Urbana, Ill.	250d	KLFM	Lead, Wash.	1000d
WADM	Decatur, Ind.	250d	KJVA	Jolin, Mo.	250d	WKWB	Waukegan, Ill.	250d	WTTX	Atlantic Beach, Fla.	1000d
WLDI	Laporte, Ind.	250d	WQXR	New York, N. Y.	5000d	WPKY	Princeton, Ky.	250d	WKWF	Kay West, Fla.	500
KXEL	Waterloo, Iowa	5000d	WTNS	Coshocton, Ohio	1000d	KLUV	Haynesville, La.	250d	WHEW	Riviera Beach, Fla.	1000d
KNEX	McPherson, Kans.	250d	WCNW	Hamilton, O.	1000d	KLOU	Lake Charles, La.	1000	WPRV	Wauchula, Fla.	500d
KLKC	Parsons, Kans.	250d	WTDI	Toledo, Ohio	5000d	WVPC	Bradbury Hgts., Md.	1000d	WDBK	Winter Garden, Fla.	1000d
WDON	Wheaton, Md.	1000	WKCO	Chickasha, Okla.	1000	WJUD	St. Johns, Mich.	1000d	WNGA	Atlanta, Ga.	1000d
WRRR	Marshall, Mich.	250d	WRSJ	Bayamon, P. R.	5000	KDDM	Windom, Minn.	250d	WNGA	Nashville, Ga.	1000d
WLEF	Greenwood, Miss.	500d	WAGL	Lancaster, S. C.	1000d	WAMY	Amory, Miss.	5000d	WVCW	Chicago Hgts., Ill.	1000d
KBXM	Kennett, Mo.	250d	WVGM	Washville, Tenn.	1000d	WESY	Leland, Miss.	1000d	WBCW	Harvard, Ill.	500d
WPRR	Albany, N. Y.	5000d	WBOL	Bolivar, Tenn.	250d	WMPM	Pascagoula-Moss Point, Mississippi	1000d	WBTO	Linton, Ind.	500d
WRPL	Charlotte, N. C.	1000d	KHBR	Hillsboro, Tex.	250d	KCGM	Columbia, Mo.	250d	WARG	Peru, Ind.	1000d
WFMF	Elkin, N. C.	5000d	KGUL	Port Lavaca, Tex.	500d	KESM	Edwards Springs, Mo.	250d	WALG	Albion, Iowa	5000d
WBGO	Bucyrus, Ohio	5000d	KHOK	Houquiam, Wash.	1000d	WNJH	Hamonton, N. J.	250d	WACR	Cedar Rapids, Iowa	5000
WBAB	Cleveland, Ohio	1000d	WGLB	Port Washington, Wis.	500d	WCRV	Washington, N. J.	500d	KMDO	Ft. Scott, Kans.	500d
WNIO	Niles, Ohio	500d	1570—191.1			KRZY	Albuquerque, N. Mex.	1000d	WSTL	Eminence, Ky.	500d
WBTC	Ulrichville, O.	250	WCRL	Oneonta, Ala.	1000d	WPAC	Patchogue, N. Y.	1000d	WKYF	Greenville, Ky.	500d
KWFS	Eugene, Ore.	1000d	WRWJ	Wetzel, Ala.	5000d	WZKY	Albemarle, N. C.	250d	KFNW	Ferriday, La.	1000d
WJMJ	Philadelphia, Pa.	5000d	KBRI	Brinkley, Ark.	250d	WKJK	Granite Falls, N. C.	500d	KLEB	Golden Meadow, La.	1000d
WPTS	Pittsburg, Pa.	1000d	KBJT	Fordyce, Ark.	250d	WPKB	Benson, N. C.	500d	KLVI	Vivian, La.	500d
WPME	Punxsutawney, Pa.	1000d	KRSA	Alsip, Calif.	250d	WVKB	Columbus, Ohio	1000d	WNS	Rockville, Md.	1000
WADK	Newport, R. I.	1000d	KCVR	Lodi, Cal.	5000d	WPGC	Bradbury Hgts., Md.	1000d	WBOS	Brookline, Mass.	5000
WBFI	Woodbury, Tenn.	500d	KACE	Riverside, Calif.	1000d	WJUD	St. Johns, Mich.	1000d			
KULF	Ft. Worth, Tex.	5000d	KLOV	Loveland, Colo.	250d	KDDM	Windom, Minn.	250d			
KGBC	Galveston, Tex.	1000	WVWB	Auburndale, Fla.	5000d	WAMY	Amory, Miss.	5000d			
WRGM	Richmond, Va.	1000d	WPAP	Fernandina Beach, Fla.	1000d	WESY	Leland, Miss.	1000d			
KBVU	Bellevue, Wash.	1000	WOKC	Okeechobee, Fla.	1000	WMPM	Pascagoula-Moss Point, Mississippi	1000d			
WTKM	Hartford, Wis.	500d	WJOE	Ward Ridge, Fla.	250	KCGM	Columbia, Mo.	250d			
1550—193.5			WMES	Ashburn, Ga.	1000d	KESM	Edwards Springs, Mo.	250d			
WBHM	Birmingham, Ala.	5000d	WGHC	Clayton, Ga.	1000d	WNJH	Hamonton, N. J.	250d			
WAAY	Huntsville, Ala.	5000	WEAD	College Park, Ga.	1000d	WCRV	Washington, N. J.	500d			
WMOD	Mobile, Ala.	5000	WGR	Millen, Ga.	250d	KRZY	Albuquerque, N. Mex.	1000d			
KFIF	Fresno, Ariz.	5000d	WOKZ	Aiken, S. C.	1000d	WPAC	Patchogue, N. Y.	1000d			
KXEX	Tucson, Calif.	500d	WFLR	Freeport, Ill.	5000d	WZKY	Albemarle, N. C.	250d			
KKHI	San Fran., Calif.	1000d	WBEE	Harvey, Ill.	5000d	WKJK	Granite Falls, N. C.	500d			
KDAB	Arvada, Colo.	5000d	WTAY	Robinson, Ill.	250d	WPKB	Benson, N. C.	500d			
WEXT	W. Hartford, Conn.	1000d	WILO	Frankfort, Ind.	250d	WVKB	Columbus, Ohio	1000d			
WRIZ	Coral Gables, Fla.	10									

WHITE'S RADIO LOG

Kc.	Wave Length	W.P.	Kc.	Wave Length	W.P.	Kc.	Wave Length	W.P.
WTYM	East Longmeadow, Mass.	5000d	WGIV	Charlotte, N.C.	1000	WBPR	Bayamon, P. R.	1000d
WAAM	Ann Arbor, Mich.	1000	WIDU	Fayetteville, N.C.	1000d	WFIS	Fountain Inn, S.C.	1000d
WTRU	Muskegon, Mich.	5000	WHVL	Hendersonville, N. C.	1000	WFNL	No. Augusta, S.C.	500d
WKDL	Clarksdale, Miss.	1000d	WFRG	Reidsville, N.C.	1000	WBHT	Harriman, Tenn.	5000d
WFFF	Columbia, Miss.	500d	WKSX	W. Jefferson, N.C.	500d	WKBJ	Milan, Tenn.	1000d
KATZ	St. Louis, Mo.	500d	KDAK	Carrington, N. Dak.	1000d	KBFB	Borger, Tex.	500d
KTTN	Trenton, Mo.	500d	WAQI	Ashabula, Ohio	1000d	KBR	Brownsville, Tex.	1000
KNCY	Nebraska City, Nebr.	500d	WBLV	Springfield, Ohio	1000d	KWEL	Midland, Tex.	1000d
KRF5	Superior, Nebr.	500d	WTF7	Tiffin, Ohio	500d	KCFH	Cuero, Tex.	500d
WMCR	Oneida, N.Y.	1000d	KRFS	Cushing, Okla.	1000d	KMAE	McKinney, Tex.	1000d
WLNQ	Sag Harbor, N.Y.	500	KASH	Eugene, Ore.	5000	KDGT	Orange, Tex.	1000
WXKW	Troy, N.Y.	500d	KOHI	St. Helens, Ore.	1000d	KBCC	Centerville, Utah	1000d
WWRL	Woodside, N. Y.	5000	WHOL	Allentown, Pa.	500d	WHLL	Wheeling, W. Va.	5000d
			WHRY	Elizabethtown, Pa.	500d	WCWC	Ripon, Wis.	5000

Canadian AM Stations by Frequency

Abbreviations: Kc., frequency in kilocycles; W.P., watt power; d, operates daytime only; n, operates nighttime only. Wavelength is given in meters.

Kc.	Wave Length	W.P.	Kc.	Wave Length	W.P.	Kc.	Wave Length	W.P.
540-555.5			680-440.9			910-329.5		
CBK Regina, Sask.	50,000		CHFA Edmonton, Alta.	5,000	CBO Ottawa, Ont.	5,000	CINB North Battleford, Sask.	10,000
CBT Grand Falls, Nfld.	10,000		CHLO St. Thomas, Ont.	1,000	CFJC Kamloops, B.C.	10,000d	CKSB St. Boniface, Man.	10,000
550-545.1			CICN Grand Falls, Nfld.	10,000	CFSX Stephenville, Nfld.	500	1060-282.8	
CFBR Sudbury, Ont.	1,000d		CJOB Winnipeg, Man.	10,000d	CHRL Roberval, Que.	1,000	CFCN Calgary, Alta.	10,000
CFNB Fredericton, N.B.	50,000		CKGB Timmins, Ont.	10,000	CJBY Drumheller, Alta.	5,000	CJLR Quebec, P.Q.	10,000
CHLN Trois-Rivieres, Que.	10,000d		690-434.5		CKLY Lindsay, Ont.	1,000	1070-280.2	
CKPG Prince George, B.C.	250		CBF Montreal, Que.	50,000	920-329.9		CBA Sackville, N.B.	50,000
560-535.4			CBU Vancouver, B.C.	10,000	CFRY Portage La Prairie, Man.	1,000	CFAX Victoria, B. C.	1000
CFOS Owen Sound, Ont.	1,000		710-422.3		CJCH Halifax, N.S.	10,000d	CHOK Sarnia, Ont.	5,000d
CHCM Marystown, Nfld.	1,000d		CJSP Leamington, Ont.	1,000	CJCY Sault Ste. Marie, Ont.	5,000n	1090-275.1	
CJLK Kirkland Lake, Ont.	5,000		CFRG Gravelbourg, Sask.	5,000d	CJCN Woodstock, N.B.	1,000	CHEC Lethbridge, Alta.	5,000
CKCN Sept-Iles, Que.	5,000		CKVM Velle-Marie, Que.	10,000d	CKCY Sault Ste. Marie, Ont.	10,000d	CHRS St. Jean, Que.	10,000d
570-526.0			CJOX Grand Bank, Nfld.	1,000	CKNX Wingham, Ont.	5,000n	1110-272.6	
CFGB Corner Brook, Nfld.	1,000		730-410.7		CJCA Edmonton, Alberta	2,500d	CKBD Saint John, N. B.	10,000
CJEM Edmundston, N.B.	5,000d		CJNR Blind River, Ont.	1,000	CJON St. John's Nfld.	1,000n	CFML Cornwall, Ont.	1,000
CKEQ Quesnel, B.C.	1,000		CKAC Montreal, Que.	50,000	930-322.4		CFJT Galt, Ont.	250d
CKEK Cranbrook, B.C.	1,000		CKDM Dauphin, Man.	10,000d	CFBC Saint John, N.B.	10,000d	1130-265.3	
CFWH Whitehorse, Y.T.	1,000		CKLG North Vancouver, B.C.	5,000n	CJCA Edmonton, Alberta	10,000d	CKWX Vancouver, B.C.	50,000
580-516.9			740-405.2		CJON St. John's Nfld.	10,000	1140-263.0	
CFRA Ottawa, Ont.	50,000d		CBL Toronto, Ont.	50,000	940-319.0		CBI Sydney, N.S.	10,000
CHLC Hauterive, Que.	10,000n		CBX Edmonton, Alta.	50,000	CBM Montreal, Que.	50,000	CKXL Calgary, Alta.	10,000
CJFX Antigonish, N.S.	5,000		790-379.5		CJGK Yorkton, Sask.	2,500d	1150-260.7	
CKPR Port Arthur, Ont.	5,000d		CFDR Dartmouth, N.S.	5,000	CJJB Vernon, B.C.	1,000	CHSJ Saint John, N.B.	10,000d
CKUA Edmonton, Alta.	1,000		CFW Camrose, Alta.	10,000	950-315.6		CKCK Hamilton, Ont.	5,000n
CKWW Windsor, Ont.	500		CKMR Newcastle, N.B.	10,000d	CKBB Barrie, Ont.	10,000d	CKSA Loyalist, Alta.	10,000
CKY Winnipeg, Man.	50,000		CKSO Sudbury, Ont.	5,000n	CKNB Campbellton, N.B.	2,500n	CKTR Trois-Rivieres, Que.	10,000d
590-508.2			CHIC Brampton, Ont.	1,000d		1,000n	CKX Brandon, Man.	10,000d
CFAR Flin Flon, Man.	1,000		800-374.8		960-312.3		1170-256.3	
CKEY Toronto, Ont.	5,000		CFOB Fort Frances, Ont.	1,000d	CFAC Calgary, Alta.	10,000	CFNS Saskatoon, Sask.	1,000
CKRS Jonquiere, Que.	1,000		CHAB Moose Jaw, Sask.	10,000d	CHNS Halifax, N.S.	10,000	1220-245.8	
CFTK Terrace, B. C.	1,000		CHRC Quebec, Que.	5,000n	CKWS Kingston, Ont.	5,000	CJOC Lethbridge, Alta.	10,000d
VOCM St. John's, Nfld.	10,000		CJAD Montreal, Que.	10,000n	970-309.1		5,000n	
600-499.7			BJBQ Belleville, Ont.	1,000	CKCH Hull, Que.	5,000	CJSS Cornwall, Ont.	1,000
CFCF Montreal, Que.	5,000		CJLX Fort William, Ont.	10,000d	CKNL Fort St. John, B.C.	1,000d	CJRL Kenora, Ont.	1,000
CFCH Callander, Ont.	10,000d		CKOK Penticton, B.C.	10,000d		500n	CKDA Victoria, B.C.	10,000
CFQC Saskatoon, Sask.	5,000		CKLW Windsor, Ont.	500n	980-305.9		CKCW Moncton, N.B.	10,000
CJOR Vancouver, B.C.	5,000		VOWR St. John's, Nfld.	1,000	CBV Quebec, Que.	5,000	CKSM Shawinigan, Que.	1,000
CKGL Truro, N.S.	1,000		810-370.2		CFPL London, Ont.	10,000d	1230-243.8	
610-491.5			CHQR Calgary, Alta.	10,000	CHEX Peterborough, Ont.	5,000	CFBV Smithers, B.C.	1,000d
CHNC New Carlisle, Que.	5,000		850-352.7		CKGM Montreal, Que.	10,000	CFGR Gravelbourg, Sask.	250n
CHTM Tompson, Man.	1,000		CJJC Langley, B.C.	1,000	CKNW New Westminster, B.C.	10,000d	CFKL Schefferville, Que.	250
CJAT Trail, B.C.	1,000		CKRD Red Deer, Alta.	10,000d	CKRM Regina, Sask.	5,000n	CFPA Port Arthur, Ont.	1,000d
CKML Mont Laurier, P.Q.	1,000		CKVL Verdun, Que.	1,000n	990-302.8		250n	
CKTB St. Catharines, Ont.	10,000d		860-348.6		CBW Winnipeg, Man.	50,000	CHFC Churchill, Man.	250
CKYL Peace River, Alta.	5,000n		CBH Halifax, N.S.	10,000	CBY Corner Brook, Nfld.	10,000	CKLD Thetford Mines, Que.	1,000d
620-483.6			CFPR Prince Rupert, B. C.	10,000	1000-299.8		CKMP Midland, Ont.	250
CFCL Timmins, Ont.	10,000d		CHAK Inuvik, N.W.T.	1,000	CKBW Bridgewater, N.S.	10,000	CKTK Kitimat, B.C.	1,000d
CKCK Regina, Sask.	5,000		CJBC Toronto, Ont.	50,000	1010-296.9		CKVD Val d'Or, Que.	1,000d
CKCM Grand Falls, Nfld.	10,000		900-333.1		CBR Calgary, Alta.	5,000	VOAR St. John's, Nfld.	250n
630-475.9			CHML Hamilton, Ont.	5,000	CFRB Toronto, Ont.	50,000	1240-241.8	
CFCO Chatham, Ont.	1,000		CHNO Sudbury, Ont.	10,000d	1050-285.5		CFLM La Tuque, Que.	1,000d
CFCY Charlottetown, P.E.I.	5,000		CJBR Rimouski, Que.	1,000n	CFGP Grande Prairie, Alta.	10,000	CFVR Abbotsford, B.C.	250
CHED Edmonton, Alta.	10,000		CJVI Victoria, B.C.	10,000	CHUM Toronto, Ont.	5,000d	CJAF Cabano, Que.	250
CHLT Sherbrooke, Que.	10,000d		CKBI Prince Albert, Sask.	10,000	CJIC Saulte Ste. Marie, Ont.	2,500n	CJAV Port Alberni, B.C.	250
CJET Smith Falls, Ont.	1,000		CKDH Amherst, N. S.	1,000			CJCS Stratford	500d
CKAR Huntsville, Ont.	1,000		CKDR Dryden, Ont.	1,000d				250n
CKOV Kelowna, B.C.	1,000		CJLL St. Jerome, Que.	1,000				250
CKRC Winnipeg, Man.	10,000		CKTS Sherbrooke, Que.	1,000				1,000d
640-468.5								250n
CBN St. John's, Nfld.	10,000							

WHITE'S RADIO LOG

Location C.L. Chan.

Darville WICD 24
Decatur WTVP 17
Freeport WCEE-TV 23
Harrisburg WSIL-TV 3
LaSalle WEEQ-TV 36
Moline WQAD-TV 8
Peoria WMBD-TV 31
WTVH 19

Quincy-Hannibal, Mo. WGEM-TV 10
Rockford WTVG 39
Rock Island WREX-TV 13
Springfield WHBF-TV 4
WICS 20

INDIANA

Evansville WEHT 50
WFIE-TV 14
WTVW 7
Fort Wayne WANE-TV 15
WKJG-TV 33
WFTA 21
Indianapolis WFBI-TV 8
WISH-TV 8
WLW-I 13
Bloomington-Indianapolis WTTV 4
Lafayette WFAM-TV 18
Marion WTAJ-TV 31
Muncie WLBC-TV 49
South Bend WNDU-TV 16
WSBT-TV 22
Elkhart-South Bend WSJV 28
Terre Haute WTHI-TV 10

IOWA

Cedar Rapids KCRG-TV 9
Cedar Rapids-Waterloo WMT-TV 2
WOC-TV 6
Davenport WOC-TV 6
Des Moines KDBT-TV 8
WHD-TV 13
Ames-Des Moines WOI-TV 5
Fort Dodge KQT-TV 21
Mason City KGLQ-TV 3
Sioux City KTVI 4
KVTN 9
Waterloo-Cedar Rapids KWWL-TV 7

KANSAS

Ensign KTVC 6
Garden City KGLD 11
KUPK 13
Goodland KLOE-TV 10
Great Bend KCKT 2
Hays KAYS-TV 7
Pittsburg-Joplin, Mo. KDM-TV 7
Salina KSLN-TV 84
Topeka WIBW-TV 13
Wichita KAKE-TV 10
KARD-TV 3
Hutchinson-Wichita KTVH 12

KENTUCKY

Bowling Green WLTV 13
Lexington WKYT-TV 27
WLEX-TV 18
Louisville WHAS-TV 11
WAVE-TV 3
WLKY-TV 32
Paducah WPSD-TV 6

LOUISIANA

Alexandria KALB-TV 5
Baton Rouge WAFB-TV 9
WBRZ 2
Lafayette KATC 3
Lake Charles KLFY-TV 10
KPLC-TV 7
Monroe-West Monroe KNOE-TV 8
New Orleans WDSU-TV 7
WVUE 12
WVL-TV 4
KSLA-TV 12
Shreveport KATL-TV 3
Shreveport-Texarkana, Texas KTBS-TV 6
Shreveport

MAINE

Bangor WABI-TV 5
WLBZ-TV 2
Poland Spring WMTW-TV 8
Portland WGSN-TV 8
WGAN-TV 13
Presque Isle WAGM-TV 8

Location C.L. Chan.

MARYLAND

Baltimore WBAL-TV 11
WJZ-TV 13
WMAR-TV 2
Salisbury WBOG-TV 16

MASSACHUSETTS

Adams WCOC 19
Boston WBZ-TV 4
WIHS-TV 38
WHDH-TV 5
WNAZ-TV 37
WRLP 2
Greenfield WHTN-TV 4
Springfield-Holyoke WHYN-TV 40
Springfield WWLP 22
Worcester WJZB-TV 14

MICHIGAN

Allen Park (Detroit) WJMY 20
Bay City-Saginaw WNEM-TV 5
Cadillac-Traverse City WWTW 9
Cheboygan WTMQ-TV 4
Detroit WJLB-TV 7
Windsor, Ont. CKLW-TV 9
Detroit WWJ-TV 4
WKBD 50
WXYZ-TV 7
Flint WJRT-TV 12
Grand Rapids WOOD-TV 8
Kalamazoo WZZM-TV 13
WZZD-TV 3
Lansing WJIM-TV 6
Marquette WLUZ-TV 6
Onondaga WILX-TV 10
Saginaw WKNX-TV 57
Sault Ste. Marie WWUP-TV 10
Traverse City WPBN-TV 7

MINNESOTA

Alexandria KCMT 7
Austin KMMT 6
Duluth-Superior, Wis. KDAL-TV 3
WDSM-TV 6
KEYC-TV 12
Mankato KMSPT-TV 9
Minneapolis-St. Paul WCCO-TV 4
WTCN-TV 11
KROC-TV 10
Rochester KSTP-TV 5
Walker KNMT 12

MISSISSIPPI

Biloxi WLOX-TV 13
Columbus WCBI-TV 4
Greenwood WABG-TV 6
Jackson WJTV 12
WLBTV 3
Laurel-Hattiesburg WDMN-TV 7
Meridian WTOK-TV 11
Tupelo WTVW 9

MISSOURI

Cape Girardeau KFVS-TV 12
Columbia KOMU-TV 8
Hannibal-Quincy, Ill. KHQA-TV 7
Jefferson City KRCG 12
Joplin KODE-TV 5
Kansas City KCMO-TV 5
KMBC-TV 9
WDAF-TV 4
Kirksville-Ottumwa, La. KTVO 3
Poplar Bluff KPOB-TV 15
St. Joseph KFEQ-TV 2
St. Louis KMOX-TV 4
KGSJ-TV 30
KSD-TV 5
KPLR-TV 11
KTVI 2
Sedalia KMOS-TV 10
Springfield KTYT 3

MONTANA

Billings KULR-TV 8
KOOK-TV 2
Butte KXLF-TV 4
Glendive KXGN-TV 5
Great Falls KFBB-TV 5
KRTV 3
Helena KBLL-TV 12
Missoula KGVO-TV 13

NEBRASKA

Albion KHQL-TV 8
Grand Island KGIN-TV 11
Hastings KHAS-TV 5
Hay Springs KDUL-TV 4
Hays Center KDHP-TV 6
Kearney-Holdrege KHOL-TV 13
Lincoln KOLN-TV 10
McCook KOMC 8
North Platte KNOP-TV 2
Omaha KETV 7
KMTV 3
WOW-TV 6

Location C.L. Chan.

Scottsbluff-Gering KSTF 10
Superior KHTL-TV 4

NEVADA

Las Vegas KLAS-TV 8
KORK-TV 2
KSHO-TV 13
KCRV 4
KOLO-TV 8

NEW HAMPSHIRE

Manchester WMUR-TV 9

NEW JERSEY

Burlington WKBS 41
Wildwood WCMC-TV 40

NEW MEXICO

Albuquerque KGGM-TV 13
KOAT-TV 7
KOB-TV 4
KAVE-TV 6
Clovis KFOW-TV 12
Roswell KSWV-TV 8
KBIM-TV 10

NEW YORK

Albany-Troy-Schenectady WAST 13
W-TEN 10
Albany WRGB 6
Schenectady-Albany-Troy WBJA-TV 34
WNNR-TV 40
WNBFT-TV 12
Buffalo WBBN-TV 4
WGR-TV 2
WKBW-TV 7
Elmira-Corning WSYE-TV 18
New York WABC-TV 7
WCBST-TV 2
WNBC-TV 4
WNEW-TV 5
WOR-TV 9
WPIX 11
WPTZ 5
WHEC-TV 10
WOKR 13
WROC-TV 8
Syracuse WHEN-TV 5
WNYS-TV 9
WSYR-TV 3
WIKT 2
Utica Carthage-Watertown WCNY-TV 7

NORTH CAROLINA

Asheville WISE-TV 62
WLOS-TV 13
Charlotte WBTB-TV 3
WCCB-TV 36
WSOC-TV 9
Durham-Raleigh WTVO 11
Greensboro WFMY-TV 2
WNCN-TV 9
New Bern WNCN-TV 12
Raleigh-Durham WRAL-TV 5
Washington WITN-TV 7
Wilmington WECT 6
WYAY 3
Winston-Salem & Greensboro WSJS-TV 12
Greensboro-High Point-WSIS-TV 12
Winston-Salem WGHF-TV 8

NORTH DAKOTA

Bismarck KFYP-TV 5
Dickinson KXMB-TV 12
KDXI-TV 2
Fargo WDAY-TV 6
Minot KMOT 10
KXMC-TV 13
Pembina KSDN-TV 12
Valley City KXJB-TV 4
Williston KUMV-TV 8

OHIO

Akron WAKR-TV 49
Cincinnati WCPO-TV 9
WCPD-TV 12
WKRZ-TV 12
Cleveland WLVN-TV 5
WUAB-TV 8
WUAB-TV 8
WJW-TV 8
WVIZ-TV 25
Columbus WBNS-TV 10
WLVN-TV 10
WTVN-TV 6
Dayton WHIO-TV 11
WKEF 22
WLW-D 2
Lima WIMA-TV 35
Stuebenville-Wheeling, West Va. WSTV-TV 9
Toledo WSPD-TV 13
WTOG-TV 11
Youngstown WFMJ-TV 21
WKBN-TV 27
WYTV 33
Zanesville WHIZ-TV 18

OKLAHOMA

Ada KTN 10

Location C.L. Chan.

Ardmore & Sherman-Denison, Texas KXII 12
Elk City KSWB 8
Lawton KSWO-TV 7
Oklahoma City KWTW 9
WKY-TV 4
KOCO-TV 5
KOTV 6
Tulsa KVOI-TV 2
KTUL-TV 8

OREGON

Coos Bay KCBY-TV 11
Eugene KEZI-TV 9
KVAL-TV 13
Klamath Falls KOTI 2
La Grange KTVB 13
Medford KTMV 5
KMED-TV 10
Portland KATU 2
KGW-TV 8
KOIN-TV 6
KPTV 12
Roseburg KPIC 4

PENNSYLVANIA

Altoona WFBG-TV 10
Erie WUCI-TV 12
WSEE 35
Harrisburg WHP-TV 21
Harrisburg-York-Lebanon WTPA 27
Johnstown WJAC-TV 6
WARD-TV 56
LANE-TV 8
Lancaster WLYH-TV 15
Philadelphia WCAU-TV 10
WFIL-TV 6
WPHL-TV 12
WRCV-TV 8
Pittsburgh KDKA-TV 2
WHIC 11
Wilkes-Barre & Scranton WBRE-TV 28
Scranton & Wilkes-Barre WDAU-TV 22
WNEP-TV 16
York WWSA-TV 43

RHODE ISLAND

Providence WJAR-TV 10
WPRO-TV 12
Providence (New Bedford, Mass.) WTEV 6

SOUTH CAROLINA

Anderson WAIM-TV 40
Charleston WCIV 4
WCSB-TV 5
WUSN-TV 2
Columbia WCCA-TV 25
WIS-TV 19
WNOK-TV 10
Florence WBTW 13
Greenville WFCB-TV 4
Spartanburg WSPA-TV 7

SOUTH DAKOTA

Aberdeen KXAB-TV 9
Deadwood-Lead KDSJ-TV 5
Florence-Waterloo KDLO-TV 3
Mithell KORN-TV 5
Rapid City KRSD-TV 7
Reliance KPLD-TV 6
Sioux Falls KELO-TV 11
KS00-TV 13

TENNESSEE

Chattanooga WDEF-TV 12
WRCB-TV 3
WTVG 9
Jackson WDXI-TV 7
Johnson City-Bristol, Kingsport WJHL-TV 11
Knoxville WBRN-TV 10
WTVK 26
WMT 5
WHBQ-TV 13
WREC-TV 8
Nashville WLAC-TV 5
WSIX-TV 8
WSM-TV 4

TEXAS

Abilene KRBC-TV 9
Amarillo KFDA-TV 10
KGNV-TV 4
Austin KHFI-TV 42
KTBC-TV 7
Beaumont KBMT 12
KFDN-TV 6
Big Spring KWAB-TV 4
Bryan KBTX-TV 3
Corpus Christi KHII 8
KRIS-TV 6
KZTV 10
Dallas-Ft. Worth WFAA-TV 8
KRLD-TV 4
KRPD-TV 13
KSTW-TV 4
KTSM-TV 9

Location	C.L.	Chan.	Location	C.L.	Chan.	Location	C.L.	Chan.	Location	C.L.	Chan.	
El Paso-Juarez, Mex.	XEJ-TV	5	UTAH			Seattle	KING-TV	5			WKOW-TV	27
Ft. Worth-Dallas	KTVT	11	Salt Lake City	KCPX-TV	4		KIRO-TV	7	Milwaukee		WMTV	15
Harlingen	WBAP-TV	5					KOMO-TV	4			WISN-TV	12
Houston	KGBT-TV	4					KHQ-TV	6			WITI-TV	6
	KHOU-TV	11					KXLY-TV	4			WTMJ-TV	4
	KTRK-TV	13					KREM-TV	2			WUHF	18
	KPRC-TV	2					KTNT-TV	11			WSAU-TV	7
Laredo	KGNS-TV	8					KTTW	13			WAOW-TV	9
	KVER	13					KIMA-TV	29				
Lubbock	KCBD-TV	11					KNDO	23				
	KLBK-TV	13										
Lufkin	KTRE-TV	9										
Midland & Odessa	KMID-TV	2										
Monahans & Midland												
Odessa	KVKM-TV	9										
Port Arthur-Beaumont	KDSA-TV	7										
	KPAC-TV	4										
San Angelo	KACB-TV	3										
	KCTV	8										
San Antonio	KENS-TV	5										
	KONO-TV	12										
	KWEX-TV	41										
	WQAI-TV	4										
Sweetwater-Abilene	KLAR-TV	12										
Temple-Waco	KCEM-TV	6										
Tyler-Longview	KLT	7										
Victoria	KXII-TV	10										
Waco	KWTG-TV	10										
Weslaco	KRGV-TV	5										
Wichita Falls	KFDX-TV	3										
	KAUZ-TV	6										

U. S. Educational Television Stations by States

Territories and possessions follow states. Chan., channel; C.L., call letters.

Location	C.L.	Chan.	Location	C.L.	Chan.	Location	C.L.	Chan.	Location	C.L.	Chan.	
ALABAMA			Waycross	WXGA-TV	8	NEW HAMPSHIRE			SOUTH CAROLINA			
Birmingham	WBIQ	10	Wrens	WCES-TV	20	Durham	WENH	11	Charleston		WITV	7
Dozier	WDIQ	2	ILLINOIS						Greenville		WNTV	29
Huntsville	WHIQ	25	Carbondale	WSIU	8	NEW MEXICO			SOUTH DAKOTA			
Mobile	WEIQ	42	Chicago	WTTW	11	Albuquerque	KNME-TV	5	Vermillion		KUSD-TV	2
Montgomery	WAIQ	26	Urbana-Champaign	WILL-TV	12	Portales	KENW	3	TENNESSEE			
Mount Cheaha State Park	WKAB-TV	32				NEW YORK			Memphis		WKNO-TV	10
	WCIQ	7	Moscow	KUID-TV	12	Buffalo	WNED-TV	17	Nashville		WDCN-TV	2
ARIZONA			IOWA			New York	WNBT	13	TEXAS			
Phoenix	KAET	8	Des Moines	KDPS-TV	11	Schenectady	WNYC	31	Dallas		KERA-TV	13
Tucson	KUAT	6	KENTUCKY				WMHT	17	Houston		KUHT	8
CALIFORNIA			Louisville	WFPK-TV	15	NORTH CAROLINA			Lubbock		KTXT-TV	5
Sacramento	KVIE	6	LOUISIANA			Chapel Hill	WUNC-TV	4	Richardson		KRET-TV	23
San Bernardino	KVCR-TV	24	Monroe	KLSE	13	Charlotte	WUTV	36	San Antonio-Austin		KLRN-TV	9
San Francisco	KQED	9	New Orleans	WYES-TV	8	NORTH DAKOTA			UTAH			
San Jose	KTEH	54	MAINE			Fargo	KFME	13	Logan		KUSU-TV	12
Santa Maria	KCOY-TV	12	Atgusta	WCBB	10	OHIO			Ogden		KWCS-TV	18
San Mateo	KCSM-TV	14	Calais	WMED-TV	13	Athens	WOUB-TV	20	Provo		KOET	9
COLORADO			Orono	WMEM-TV	12	Bowling Green	WBGU-TV	70	Salt Lake City		KBYU-TV	11
Denver	KRMA-TV	6	Presque Isle	WMEM-TV	10	Cincinnati	WCET	48			KUED	7
CONNECTICUT			MASSACHUSETTS			Cleveland	WVIZ-TV	25	VIRGINIA			
Hartford	WEDH	24	Boston	WGBH-TV	2	Columbus	WOSU-TV	34	Hampton-Norfolk		WHRO-TV	15
DELAWARE				WGBX	44	Newark	WGSF	28	Portsmouth		WYAH-TV	27
Wilmington	WHYY-TV	12	MICHIGAN			Oxford	WMUB-TV	14	Richmond		WCVE-TV	23
DISTRICT OF COLUMBIA			Detroit	WTVS	56	Toledo	WGTE-TV	30	WASHINGTON			
Washington	WETA-TV	26	Onondaga-East Lansing	WMSB	10	OKLAHOMA			Pullman		KWSC-TV	10
FLORIDA			University Center (Bay City)	WUCM-TV	19	Oklahoma City	KETA	13	Seattle		KCTS-TV	9
Gainesville	WUFT	5	MINNESOTA			Tulsa	KOKH-TV	25	Spokane		KSND	7
Jacksonville	WJCT	7	Duluth	WDSE-TV	8		KOED-TV	11	Tacoma		KPEC-TV	56
Miami	WSEC-TV	17	St. Paul-Minneapolis	KTCA-TV	2	OREGON			Yakima		KTPS	62
	WTHS-TV	2	MISSOURI			Corvallis	KOAC-TV	7			KYVE-TV	47
Orlando	WMFE-TV	24	Kansas City	KCSD-TV	19	Portland	KOAP-TV	10	WISCONSIN			
Tallahassee	WFSU-TV	11	St. Louis	KETC	9	PENNSYLVANIA			Madison		WHA-TV	21
Tampa-St. Petersburg	WEDU	3	NEBRASKA			Clearfield	WPSX-TV	3	Milwaukee		WMVS-TV	10
GEORGIA			Lincoln	KUON-TV	12	Hershey	WTFV-TV	33			WMTV	36
Athens	WGTV	8	NEW HAMPSHIRE			Philadelphia	WUHY-TV	35	PUERTO RICO			
Atlanta	WETV	30				Pittsburgh	WQED	13	Mayaguez		WIPM-TV	3
Columbus	WJSP-TV	28					WQEX	16	San Juan		WIPR-TV	6
Savannah	WVAN-TV	9										

WHITE'S RADIO LOG

Canadian Television Stations by Cities

Location	C.L.	Chan.	Location	C.L.	Chan.	Location	C.L.	Chan.	Location	C.L.	Chan.
Adams Hill, B.C.	CFGR-TV-8	11	Elliot Lake, Ont.	CKSO-TV-1	3	Montreal, Que.	CBFT	2	Sault Ste. Marie, Ont.	CJIC-TV	2
Aldicane, Sask.	CKBI-TV-1	10	Enderby, B.C.	CFEN-TV-1	5	Montreal, Que.	CBMT	6	Savona, B.C.	CFR-TV-7	8
Amherst, N.S.	CJCH-TV-3	8	Enderby, B.C.	CHBC-TV-5	72	Montreal, Que.	CFCT-TV	12	Senneterre, P.Q.	CKRN-TV-1	7
Antigonish, N.S.	CFXU-TV-9	9	Estouev, Que.	CJES-TV-1	70	Montreal, Que.	CFTM-TV	10	Sheet Harbour, N.S.	*CBHT-4	11
Argentina, Nfld.	CJOX-TV-3	3	Falkland, B.C.	CFWS-TV-1	5	Moose Jaw, Sask.	CHAB-TV	4	Shelburne, N.S.	CBHT-2	8
Ashcroft, B.C.	CFGR-TV-2	10	Flin Flon, Man.	CBWB-TV	10	Mont Clément, P. Q.			Sherbrooke, Que.	CHLT-TV	7
Atikokan, Ont.	CBWAT-4	7	Fort Francis, Ont.	CBWAT-3	5	Moyie, B. C.	CKBL-TV-1	11	Sioux Lookout, Ont.	CBWAT-2	12
Baldy Mountain, Man.	CKSS-TV	13	Foxwarren, Man.	CKX-TV-1	11	Murdochville, P. Q.	CKVS-TV-1	5	Smithers, B.C.	CFTK-TV-2	5
Bale St. Paul, P.Q.	CKRT-TV-1	8	Gaspe, P. Q.	CHAU-TV-6	10		CKBL-TV-2	6	Sointula, B.C.	CFKB-TV-5	5
Banff, Alta.	CHCA-TV-2	10	Gaspe West, P. Q.				CJNP-TV-1	2	Squamish, B.C.	CHAR-TV-1	7
	CFCN-TV-2	8	(Beverly Mount)				CKBL-TV-2	6	St. John's, Nfld.	CJON-TV	6
	CFCN-TV-2	10					CKBL-TV-2	6	St. John's, Nfld.	CBNT	8
Barrie, Ont.	CKVR-TV-2	6					CKAM-TV-1	7	St. Marguerite-Marie, P.Q.		
Bayview, N.S.	CJCH-TV-2	6					CKAM-TV-1	7	St. Quentin, N.B.	CHAU-TV-1	2
Bon Accord, N.B.	CHSJ-TV-1	10					CKAM-TV-1	7	St. Rose du Dejele, P. Q.	CHAU-TV-2	10
Bonavista, Nfld.	CJON-TV-1	6					CKAM-TV-1	7	St. Rose du Dejele, P. Q.	CKRT-TV-2	8
Boston Bar, B.C.	CFGR-TV-9	9					CKAM-TV-1	7	Stephenville, Nfld.	CFSN-TV	8
Brandon, Man.	CKX-TV-3	5					CKAM-TV-1	7	Stranraer, Sask.	CFQC-TV-1	3*
Brooks, Alta.	CFGN-TV-3	9					CKAM-TV-1	7	Sturgeon Falls, Ont.	CBFT-7	7
Burnaby, B.C.	CJLH-TV-3	3					CKAM-TV-1	7	Sudbury, Ont.	CBFT-1	13
Burns Lake, B.C.	CFBK-TV-3	2					CKAM-TV-1	7	Sudbury, Ont.	CKSO-TV	5
Calgary, Alta.	CFGN-TV-4	4					CKAM-TV-1	7	Swift Current, Sask.	CJFB-TV	5
Calgary, Alta.	CJOT-TV	2					CKAM-TV-1	7	Sydney, N.S.	CJCB-TV	4
Callander, Ont.	CFCH-TV	10					CKAM-TV-1	7	Temiscaming, P.Q.	CBFT-2	12
Campbellton, N.B.	CKCD-TV	7					CKAM-TV-1	7	Temiscaming, P.Q.	CJTK-TV-1	3
Canning, N.S.	CJCH-TV-1	10					CKAM-TV-1	7	Terrace, B.C.	CFTK-TV	3
Carleton, Que.	CHAU-TV	5					CKAM-TV-1	7	The Pas, Man.	CBWT-1	7
Carlyle Lake, Sask.	CKOS-TV-2	7					CKAM-TV-1	7	Timmins, Ont.	CFCL-TV	6
Carrot Creek, Alta.	CFRN-TV-1	9					CKAM-TV-1	7		CBFO	9
Caspegar, B.C.	CBUAT-2	3					CKAM-TV-1	7	Toronto, Ont.	CBLT	6
Chandler, P.Q.	CHAU-TV-4	7					CKAM-TV-1	7	Toronto, Ont.	CFTO-TV	9
Charlottetown, P.E.I.	CFCY-TV	13					CKAM-TV-1	7	Trail, B.C.	CBUAT	11
Chase, B.C.	CFGR-TV-8	11					CKAM-TV-1	7	Trois-Rivières, Que.		
Chicoutimi, P.Q.	CJPM-TV	6					CKAM-TV-1	7	Upsalquitch Lake, N.B.	CKTM-TV	13
Chilliwack, B.C.	CHAN-TV-1	11					CKAM-TV-1	7		CKAM-TV	12
Cheltenham, N. S.	CBFCT	5					CKAM-TV-1	7	Val D'Or, Que.	CKRN-TV-2	8
Chicoutimi, P. Q.	CKRS-TV-2	2					CKAM-TV-1	7	Val Marie, Sask.	CJFB-TV-2	2
Clearwater, B.C.	CFGR-TV-10	10					CKAM-TV-1	7	Vancouver, B.C.	CBUT	2
Clermont, Que.	CFGV-TV-1	75					CKAM-TV-1	7	Vernon, B.C.	CHBC-TV-2	2
Clinton, B.C.	CFGR-TV-4	9					CKAM-TV-1	7	Victoria, B.C.	CHCK-TV	6
Corner Brook, Nfld.	CBYT	5					CKAM-TV-1	7	Ville Marie, Que.	CKRN-TV-3	6
Cornwall, Ont.	CJSS-TV	10					CKAM-TV-1	7	Waterloo Park, Alta.		
Coronation, Alta.	CHCA-TV-1	8					CKAM-TV-1	7	Westford, B.C.	CJWP-TV-1	12
Courtenay, B.C.	CBUT-1	9					CKAM-TV-1	7	Whiteword, Alta	CFRN-TV-2	12
Colgate, Sask.	CKKC-TV-12	12					CKAM-TV-1	7	Williams Lake, B.C.	CFRN-TV-3	10
Cranbrook, B.C.	CBUBT	10					CKAM-TV-1	7	Willow Lunch, Sask.	CFGR-TV-5	8
Crescent Valley, B.C.	CHMS-TV-1	5					CKAM-TV-1	7		CKCK-TV-2	6
Dawson Creek, B.C.	CJOC-TV	2					CKAM-TV-1	7	Windsor, Ont.	CKLW-TV	9
Drumheller, Alta.	CFGN-TV-1	8					CKAM-TV-1	7	Wingham, Ont.	CKNX-TV	8
Drumheller, Alta.	CHCT-TV-1	12					CKAM-TV-1	7	Winnipeg, Man.	CBFT-3	7
Dryden, Ontario	CBWAT-1	9					CKAM-TV-1	7	Winnipeg, Man.	CBWT	6
Eastend, Sask.	QJFB-TV-1	2					CKAM-TV-1	7	Winnipeg, Man.	CJAY-TV	7
Edmonton, Alta.	CBXT	5					CKAM-TV-1	7	Wynyard, Sask.	CKOS-TV-3	6
Edmonton, Alta.	CFRN-TV	3					CKAM-TV-1	7	Yorkton, Sask.	CKOS-TV	3
Edmondston, N.B.	CJBR-TV-1	13					CKAM-TV-1	7	Yarmouth, N.S.	CBHT-3	11
Edson, Alta.	CFRN-TV-2	12					CKAM-TV-1	7	Yuill Mountain, Balfour, B.C.	CFBF-TV-1	5

World-Wide Short-Wave Stations

The World-Wide Short Wave Stations section of *White's Radio Log* is, as its name implies, a log, that lists stations actually monitored by listeners in the United States, Canada and overseas. It is *not* intended to be a listing of *all* shortwave transmitters licensed as such listings contain numerous inactive transmitters, and low powered stations which are rarely heard by DX'ers. The stations listed here, therefore, are those most often reported and consistently heard during the past few months. Many have been monitored by DX CENTRAL the official

RADIO-TV EXPERIMENTER monitoring post in New York City.

In our listings, a station or frequency marked with an asterisk (*) indicates a non-broadcast station or frequency. This might include aeronautical, maritime, military, or other type of transmission, either in regular AM or single sideband (SSB). In instances where many non-broadcast stations use the same frequency, we have given you a clue as to the type of stations to be found there, rather than pin down only one station.

Let Us Know. Listeners are invited to

submit their loggings to us for publication in the Shortwave section of *White's Radio Log*. Be sure to include the following information for each station you report: approximate frequency, callsign and/or station name, city and country, and time heard in Eastern Standard Time, 24 hour clock. Address your reports to: *DX CENTRAL, White's Radio Log*, c/o RADIO-TV EXPERIMENTER, 505 Park Avenue, New York, N. Y. 10022, U.S.A.

Time To Listen. All times shown in *White's Radio Log* are in the 24 hour EST clock system. For example, 0800 is 8:00 AM EST, 1200 is noon EST, 1800 is 6 PM EST, and so on. For conversion to other time zones, subtract 1 hour for CST (0800 EST is 7 AM CST), 2 hours for MST, 3 hours for PST.

The following abbreviations are used in our listings: BC—Broadcasting Company, Corporation, or System; E—Emissora; R—Radio or Radiodiffusion; V—Voice or Voz.

INX. We are indebted to the following DX'ers who added their loggings to those of *DX CENTRAL*, the official RADIO-TV EXPERIMENTER monitoring station in New York City, to bring you this month's listings:

George Matyaszek, Chicago, Ill.
Leonard Smith, Shadyside, Ohio

J. M. Harris, Vancouver, B. C.
Julian Sienkiewicz, Brooklyn, N. Y.
Tom Kneitel, New York, N. Y.
John Sigel, Worcester, Ohio
A. L. Kempton, St. Petersburg, Fla.
Susan Henriksen, Pt. Washington, N. Y.
Claire Campbell, Central Valley, Calif.
Ronald Flachac, Marshfield, Wisc.
Graham Chloupek, Oakland, Calif.
W. Wandrei, Burnaby, B. C.
David Carlson, Kirkwood, Mo.
R. J. Monson, Lancaster, Va.
Steve Shimko, Baltimore, Md.
David Weegar, Cooksville, Ont.
Bruce Zuckerman, Clark, N. J.
William Lee, Bethlehem, Pa.
Alvin R. Wilkinson, Ft. Bragg, N. C.
R. J. Allen, Williams Lake, B. C.
Robert Bouvier, Providence, R. I.
John P. LeFave, Reading, Mass.
Tom Carpenter, Harrison, Mich.
Jimmy Davis, Lawton, Okla.
M. Herbach, Brooklyn, N. Y.
Allen Mattis, Stone Lake, Wisc.
Frank B. Kennedy, Saratoga, Calif.
Joao Negrao, Santos, Brasil
John A. Czupowski, Cicero, Ill.
Nicholas Manusos, Lisle, Ill.
Mike Doherty, Willowdale, Ont.
Carl Stephan, Rochester, N. Y.
Bruce Kirkpatrick, Topeka, Kans.
Ronald Shopinski, Mt. Carmel, Pa.
Verne Horsley, APO N. Y. 09079
Lawrence Whitehead, Wewoka, Okla.
Alfred V. Sander, Concord, Calif. (great report)
N. S. Jortner, New York, N. Y.

Freq.	Call	Name	Location	EST	Freq.	Call	Name	Location	EST
1630	VAK	Victoria*	Victoria, B.C.	0400	4798	XJA43	—	Brit. Columbia	2302
2182	—	(marine emerg.)*	various ship & shore	—		XJD44	Prince Rupert	Prince Rupert, B.C.	2337
2410	VL9CG	—	Goroka, Papua	0430		XJD51	Terrace	Terrace, B.C.	2315
2450	4VEH	V. Evangelique	Cap Hatien, Haiti	0630	4811	HCFA4	V. de Manabi	Portoviejo, Ecuador	2305
2482	KOW	Seattle*	Seattle, Wash.	0510	4813	ZYH27	R. Iracema	Fortaleza, Brazil	1957
2514	WLC	Rogers City*	Rogers City, Mich.	0023	4820	XEJG	E. Casa de la Cult.	Guadalajara, Mex.	2134
2590	VAF	Alert Bay*	Alert Bay B.C.	0755	4825	ZYE7	R. Educadora	Parnaiba, Brazil	2145
2598	KFX	Astoria*	Astoria, Ore.	0507	4828	—	Rhodesia NC	Gwelo, Rhodesia	0930
	KQX	Portland*	Portland, Ore.	0345	4830	CP70	R. Grigota	Santa Cruz, Bolivia	2100
3215	VTW3	R. Tarawa	Tarawa, Gilbert Is.	0230	4835	ZYA	R. Roraima	Boa Vista, Brazil	2030
3218	—	R. Sto. Domingo	Santo Domingo, Dom. Rep.	2330	4846	—	V. San Isidro	La Ceida, Hond.	2015
3240	—	R. Brazzaville	Brazzaville, Congo	2330	4864	CSA93	E. dos Azores	Ponta Delgada, Azores	1500
3260	—	R. Naimey	Naimey, Niger	0030	4880	HIJP	R. Comercial	Santo Domingo, D.R.	2100
3300	—	R. Belize	Belize, Brit. Honduras	1730	4890	—	R. Dakar	Dakar, Senegal	0100
3304	VL8BD	—	Daru, Papua	0430		—	R. Equat.	Santa Isabel, Sp. Guinea	1600
3306	—	Rhodesia B.C.	Gwelo, Rhodesia	1000	4954	ZYE23	R. Educadora	Braganca, Brazil	2045
3315	—	R. Martinique	Fort de France, Martinique	2000	4965	—	R. Santa Fe	Bogota, Colombia	2150
3326	—	R. Tingo Maria	Peru	2200	4967	—	Kuwait BC	Kuwait	1200
3356	—	R. Bechuanaland	Gaberones, Bechuanaland	1030	4970	—	R. Mogadiscio	Mogadiscio, Somalia	1245
3366	—	V. of Ghana	Accra, Ghana	1700	4972	—	R. Yaounde	Yaounde, Cameroun	0030
3910	CR7RA	R. Pax	Beira, Mozambique	0130	5014	—	R. Universitario	La Paz, Bolivia	2000
3952	MCM	BBC	London, England	1900	5020	—	R. Naimey	Naimey, Niger	0030
3960	—	R. Pax	Beira, Mozambique	0130	5024	—	R. Centinela del Sur	Loja, Ecuador	2030
3975	GRC	BBC	London, England	2030	5025	—	R. Pax	Beira, Mozambique	0130
3980	—	R. Commercial	Angola	1400	5036	—	R. Ilo	Peru	2200
4372	WCM	Pittsburgh*	Pittsburgh, Pa.	0830	5042	CR6RF	R. Club de Bengela	Benguela, Angola	0045
4421	WLC	Rogers City*	Rogers City, Mich.	0023	5047	—	R. du Togo	Lome, Togo	1600
4706	—	R. Progresso	Ecuador	2100	5060	—	R. Catolica	Quito, Ecuador	2000
4719	CR4AB	R. C. de Mindelo	Sao Vicente, Cape Verde Is.	1645	5070	—	R. Liberdad	clandestine	0800
4756	—	Fiji Is. BC	Nandi, Fiji Is.	1830	5521	KWA6	Anchorage*	Anchorage, Alaska	0530
4775	—	R. Commercial	Angola	1350	5566	KILB	Miami*	Miami, Fla.	0600
						KKFB	New Orleans*	New Orleans, La.	0615
						KSF	San Francisco*	San Francisco, Cal.	2005
						KKFB	New Orleans*	New Orleans, La.	1919
						XACF	Mexico City*	Mexico City, Mex.	1919

60 Meter Band—4750 to 5060 Kc/s

4790	HRST	R. Primero de Mayo	Tegucigalpa, Hond.	2300
------	------	--------------------	--------------------	------

WHITE'S RADIO LOG

Freq.	Call	Name	Location	EST
5626	VFZ	Goose Bay*	Goose Bay, Lab.	2010
5880	—	R. Peking	Peking, China	1500
5930	—	R. Prague	Prague, Czech.	2000

49 Meter Band—5950 to 6200 Kc/s

5960	—	Greenlands Radio	Godthab, Greenland	1530
—	RAI	—	Rome, Italy	1310
—	DMQ	Deutsche Welle	Cologne, W. Ger.	2355
5970	—	R. Brazzaville	Brazzaville, Congo	2300
—	CKNA	Canadian BC	Montreal, P.Q.	1700
5975	—	R. Santiago de Chile	Santiago, Chile	0500
5980	DMQ	Deutsche Welle	Cologne, W. Ger.	1610
—	—	Greenlands Radio	Godthab, Greenland	1530
5985	—	Vatican R.	Vatican City	1930
6000	—	R. Americas	Swan Island	0045
6005	—	R. Nederland	Hilversum, Neth.	1100
6010	—	RAI	Rome, Italy	0525
—	YSS	R. Nacional	San Salvador, El. Sal.	2115
6015	PRA8	R. Pernambuco	Pernambuco, Brazil	1930
6025	VUD	All India Radio	Delhi, India	1515
6055	—	R. Prague	Prague, Czech.	0530
6060	—	R. Naimey	Naimey, Niger	0030
6070	GRR	BBC	London, England	1700
—	—	R. Sofia	Sofia, Bulgaria	1950
6075	DMQ	Deutsche Welle	Cologne, W. Ger.	1900
6080	ZL7	N.Z. Calling	Wellington, N.Z.	0530
—	—	Swiss BC	Berne, Switz.	2130
—	ZYK2	R. Jornal do Com.	Recife, Brazil	1930
6095	BED29	V. Free China	Taipei, Formosa	0500
6100	DMQ	Deutsche Welle	Cologne, W. Ger.	1900
—	—	R. Belgrade	Belgrade, Yugo.	1700
6101	YNHC	R. Hernandez de Corda	Ocotail, Nicar.	1820
6105	—	R. Abidjan	Abidjan, Ivory Coast	0130
6120	—	Swiss BC	Berne, Switz.	2130
—	4VEH	La V. Evangelique	Cap Haitien, Haiti	0630
6123	OAX5U	R. Huamanga	Peru	2330
6128	OXC4M	R. Pasco	Cerro de Pasco, Peru	2330
6135	—	R. Havana	Havana, Cuba	0705
6140	—	R. Papeete	Papeete, Tahiti	2230
—	—	R. Nacional de Espana	Madrid, Spain	1630
6145	DMQ	Deutsche Welle	Cologne, W. Ger.	2305
6150	—	S. African BC	Capetown, S. Afr.	2200
6165	ZYC7	R. Tupi	Rio de Janeiro, Brazil	0100
—	XEWW	La V. de Americana	Mexico City, Mex.	2320
6170	TGZ8	R. Novela	Guatemala City, Guat.	2300
6175	DMQ	Deutsche Welle	Cologne, W. Ger.	2035
6180	HJCT	R. Nacional	Bogota, Colombia	1830
6195	GRN	BBC	London, England	1800
—	—	R. Nacional	Asuncion, Paraguay	0310
6210	OAZ4E	R. Minero	La Oroya, Peru	1900
6240	—	R. Liberdad	clandestine	0800
—	OAX7A	R. Cuzco	Cuzco, Peru	2100
6270	—	R. Nacional	Asuncion, Paraguay	0310
—	—	R. Peking	Peking, China	1300
6290	—	Miami*	Miami, Fla.	2102
6567	WBR	San Juan*	San Juan, P.R.	2105
—	WRW	San Juan*	San Juan, P.R.	2105
—	WEK	New Orleans*	New Orleans, La.	2107
6890	—	R. Peking	Peking, China	1300
7082	—	Injah Sedaye	clandestine	1000
—	—	Melatte Iran	—	—

41 Meter Band—7100 to 7300 Kc/s

7105	—	R. Naimey	Naimey, Niger	0030
—	—	R. Nacional Espana	Madrid, Spain	1630
—	—	R. Brazzaville	Brazzaville, Congo	2300

Freq.	Call	Name	Location	EST
7115	—	R. Prague	Prague, Czech.	2000
7130	—	R. Naimey	Naimey, Niger	0030
—	BED7	V. of Free China	Taipei, Formosa	2150
7135	—	R. Pakistan	Karachi, Pakistan	1445
7165	—	R. Tanzania	Der es Salaam, Tanzania	0230
7175	DMQ	Deutsche Welle	Cologne, W. Ger.	1610
—	—	Rhodesia BC	Gwelo, Rhodesia	0930
7205	—	R. Pax	Beira, Mozambique	0130
7215	—	R. Tehran	Tehran, Iran	1500
7225	DMQ	Deutsche Welle	Cologne, W. Ger.	2330
7235	VUD	All India R.	Delhi, India	1515
—	—	RAI	Rome, Italy	1310
7250	—	Vatican R.	Vatican City	1930
7260	DMQ	Deutsche Welle	Cologne, W. Ger.	1520
—	—	VTWN	Saigon, S. Vietnam	0830
7270	—	S. African BC	Capetown, S. Afr.	2200
7275	—	RAI	Rome, Italy	0525
7295	—	R. Budapest	Budapest, Hungary	1700
7308	—	R. Liberdad	clandestine	0800
7310	—	R. Tirana	Tirana, Albania	1930
7345	—	R. Prague	Prague, Czech.	2000
7440	—	R. Peking	Peking, China	1500
7450	—	R. Peking	Peking, China	1300
7840	—	V. de la Palma	Las Palmas, Canary Is.	1600
8837	KIL8	Miami*	Miami, Fla.	0840
8872	WVA3	San Juan*	San Juan, P.R.	0715
8905	KSF	San Francisco*	San Francisco, Cal.	2308
8948	WVA3	San Juan	San Juan, P.R.	1900
—	—	KEAS	New York*	1902
9009	4XB31	Kol Zion	Jerusalem, Israel	1330
9325	—	R. Liberdad	clandestine	0800
9360	—	R. Nacional Espana	Madrid, Spain	1430
9457	—	R. Peking	Peking, China	0430
9460	—	Trans World R.	Bonaire, Neth. Ant.	0700

31 Meter Band—9500 to 9775 Kc/s

9505	—	R. Prague	Prague, Czech.	0530
9510	GSB	BBC	London, England	0800
9520	—	R. Santo Domingo	Sto. Domingo, D.R.	1715
—	OZF5	V. of Denmark	Copenhagen, Denmark	2100
9525	—	R. Japan	Tokyo, Japan	1000
—	—	S. African BC	Capetown, S. Afr.	1415
—	WRUL	R. N.Y. Worldwide	New York, N.Y.	1645
9530	—	R. Tanzania	Dar es Salaam, Tanz.	0230
—	—	R. Amman	Amman, Jordan	1600
9535	HER4	Swiss BC	Berne, Switz.	2130
9540	ZL2	New Zealand	Wellington, N.Z.	0140
9545	DMQ	Deutsche Welle	Cologne, W. Ger.	1050
9555	—	R. Amman	Amman, Jordan	2000
9570	—	R. Australia	Melbourne, Austral.	0145
9577	OAX8Q	R. Pulcallpa	Pulcallpa, Peru	2240
9580	—	R. Australia	Melbourne, Austral.	0715
9590	—	R. Nederland	Hilversum, Neth.	1555
9615	—	R. Nacional de Espana	Madrid, Spain	1125
9625	—	Canadian BC	Montreal, P.Q.	1700
9635	ZYR83	R. Aparaceida	Aparaceida, Brazil	1630
9640	HLK5	V. of Free Korea	Seoul, Korea	0930
9645	—	Vatican R.	Vatican City	1930
—	TIFC	E. Cultural	San Jose, C.R.	0800
9655	VUD	All India R.	Delhi, India	0500
9660	—	R. Lebanon	Beirut, Lebanon	2030
—	—	R. Nacional de Espana	Las Palmas, Canary Is.	0900
9670	—	Disini Saudi	Jeddah, Saudi Arabia	0300
9675	CR6SG	R. Club do Huila	Sa da Bandeira, Angola	0400
9685	BED73	V. of Free China	Taipei, Formosa	2150
9690	LRA	R. Nacional	Buenos Aires, Arg.	0120
9695	—	R. Phnom Penh	Phnom Penh, Cambodia	2100
9700	CE970	V. de Chile	Santiago, Chile	0545
9705	—	R. Japan	Tokyo, Japan	1000
9710	OAX9D	R. Tropical	Tarapoto, Peru	0615
9715	—	R. Nederland	Hilversum, Nederland	1400
9730	—	R. Brazzaville	Brazzaville, Congo	2300
—	—	R. Berlin Int'l.	Berlin, E. Ger.	1300
9735	DMQ	Deutsche Welle	Cologne, W. Ger.	1010
9740	—	R. Pakistan	Karachi, Pakistan	1445
—	—	R. Splendid	Buenos Aires, Arg.	1825
—	—	R. TV Belge	Brussels, Belg.	1650
9745	ORU	V. of Free China	Taipei, Formosa	1145
9755	—	Ici Paris	Paris, France	2040

Freq.	Call	Name	Location	EST
9770	4VEH	La V. Evangelique	Cap Hatien, Haiti	0630
9795	—	R. Prague	Prague, Czech.	2000
9833	—	R. Budapest	Budapest, Hungary	1930
9860	—	R. Peking	Peking, China	1300
9865	YDF6	V. of Indonesia	Jakarta, Indonesia	1200
9915	VUD	All India R.	Delhi, India	1515
9955	—	R. Peking	Peking, China	1500
11650	—	R. Peking	Peking, China	0430
11660	—	R. Damascus	Damascus, Syria	0830

25 Meter Band—11700 to 11975 Kc/s

11710	—	R. Australia	Melbourne, Austr.	0145
	VUD	All India R.	Delhi, India	0500
	—	R. Brazzaville	Brazzaville, Congo	2300
11715	YDF2	V. of Indonesia	Jakarta, Indonesia	1200
	—	R. Nacional de Espana	Madrid, Spain	1800
11720	—	R. Athens	Athens, Greece	1245
11730	—	R. Nederland	Hilversum, Neth.	1555
	—	R. Tehran	Tehran, Iran	1500
11735	—	Moroccan BC	Taggier, Morocco	1530
11740	—	V. of America	Monrovia, Liberia	1230
11760	—	R. Australia	Melbourne, Austr.	1745
11770	—	V. of America	Monrovia, Liberia	1500
11770	VUD	All India R.	Delhi, India	0500
11775	DMQ	Deutsche Welle	Cologne, W. Ger.	1050
11780	—	R. Japan	Tokyo, Japan	2100
	ZL3	New Zealand Calling	Wellington, N.Z.	0140
11785	DMQ	Deutsche Welle	Cologne, W. Ger.	0230
11795	DMQ	Deutsche Welle	Cologne, W. Ger.	1010
11800	—	R. Peking	Peking, China	0430
	—	R. Ceylon	Colombo, Ceylon	0930
11805	ZYZ36	R. Globo	Rio de Janeiro, Brazil	1915
11810	VUD	All India R.	Delhi, India	0830
	—	R. Lebanon	Beirut, Lebanon	1330
11825	BED69	V. of Free China	Taipei, Formosa	2150
	—	R. Papeete	Papeete, Tahiti	2230
11835	4VEH	La V. Evangelique	Cap Hatien, Haiti	0630
	—	R. TV Algerienne	Algiers, Algeria	1700
11850	LLK	R. Norway	Oslo, Norway	1104
11855	—	Disini Saudi Arabia	Jeddah, Saudi Arabia	1200
	WRUL	R. N.Y. Worldwide	New York, N.Y.	1700
11860	BED45	V. of Free China	Taipei, Formosa	2150
11874	—	Disini Saudi Arabia	Jeddah, Saudi Arabia	1200
11875	ETLF	R. V. of Gospel	Addis Ababa, Ethiopia	1200
	WRUL	R. N.Y. Worldwide	New York, N.Y.	1515
11885	DMQ	Deutsche Welle	Cologne, W. Ger.	1010
	CXA68	R. Sarandi	Montevideo, Uruguay	2235
11890	DMQ	Deutsche Welle	Cologne, W. Ger.	1210
11900	—	S. African BC	Capetown, S. Afr.	0500
11925	DMQ	Deutsche Welle	Cologne, W. Ger.	0345
	HLK6	V. of Free Korea	Seoul, Korea	1830
	—	Windward I. BC	St. Georges, Grenada	1730
11940	—	R. Japan	Tokyo, Japan	0730
11950	—	Disini Saudi Arabia	Jeddah, Saudi Arabia	0300
	PRL3	R. Min. da Educ. e Cult.	Rio de Janeiro, Brazil	0500
11955	—	R. Nederland	Hilversum, Neth.	1230
11990	—	R. Prague	Prague, Czech.	2000
12095	GRF	BBC	London, England	1309
13264	VFG	Gander*	Gander, Nfld. clandestine	1226
15050	—	R. Liberdad	St. Georges, Grenada	0800
15100	—	Windward Is. BC	St. Georges, Grenada	1730
15105	VUD	All India R.	Delhi, India	0500
15060	—	R. Peking	Peking, China	0700

19 Meter Band—15100 to 15450 Kc/s

15110	ZL21	New Zealand Calling	Wellington, N.Z.	2145
15115	—	R. Peking	Peking, China	0430
	HCJB	Quito, Ecuador	Quito, Ecuador	1330
15125	HLK41	V. of Free Korea	Seoul, Korea	1900
15135	—	R. Japan	Tokyo, Japan	2100
	VUD	Havana, Cuba	Havana, Cuba	1610
15165	VUD	All India R.	Delhi, India	0520
	OZF7	V. Denmark	Copenhagen, Den.	0730
	—	R. Damascus	Damascus, Syria	1230
15195	TAQ	R. Ankara	Ankara, Turkey	2230

Freq.	Call	Name	Location	EST
15220	—	S. African BC	Capetown, S. Afr.	0500
	WRUL	R. N.Y. Worldwide	New York, N.Y.	0745
	—	R. Australia	Melbourne, Austr.	2000
15225	VUD	All India R.	Delhi, India	0830
15235	—	R. Japan	Tokyo, Japan	0030
15275	DMQ	Deutsche Welle	Cologne, W. Ger.	0345
15290	ZL4	New Zealand Calling	Wellington, N.Z.	1845
15340	—	R. Havana	Havana, Cuba	1700
15345	—	R. Athens	Athens, Greece	1245
15370	—	R. Brazzaville	Brazzaville, Congo	1400
15380	CSA42	E. Nacional	Lisbon, Port.	1350
15425	—	R. Nederland	Hilversum, Neth.	1230
15440	WRUL	R. N.Y. Worldwide	New York, N.Y.	0700
15445	—	R. Brazzaville	Brazzaville, Congo	2300

16 Meter Band—17700 to 17900 Kc/s

17695	GVP	BBC	London, England	0700
17720	—	R. Brazzaville	Brazzaville, Congo	0730
17725	—	R. Japan	Tokyo, Japan	0030
17730	WRUL	R. N.Y. Worldwide	New York, N.Y.	1000
17790	GSG	BBC	London, England	0700
17805	—	S. Afr. BC	Capetown, S. Afr.	0600
17835	—	R. Peking	Peking, China	0430
17840	WRUL	R. N.Y. Worldwide	New York, N.Y.	1000
17840	—	R. Australia	Melbourne, Austr.	2000
17845	DMQ	Deutsche Welle	Cologne, W. Ger.	0230
17855	—	R. Havana	Havana, Cuba	0930
	VUD	All India R.	Delhi, India	0500
17875	WRUL	R. N.Y. Worldwide	New York, N.Y.	1000
17885	—	BBC	London, England	0930
17890	HCJB	V. of the Andes	Quito, Ecuador	1330
	—	V. of Free China	Taipei, Formosa	1030
17895	CSA66	E. Nacional	Lisbon, Port.	0900
17910	—	V. of Ghana	Accra, Ghana	0945
21500	—	R. Brazzaville	Brazzaville, Congo	1330
21530	—	V. of Ghana	Accra, Ghana	0900
21545	—	V. of Ghana	Accra, Ghana	0945
21700	—	E. Nacional	Lisbon, Port.	0940
21710	GVS	BBC	London, England	0930



"Red Fox to Blue Eagle, come in, Blue Eagle!"

Electronics Goes to your Heart

Continued from page 39

artificial kidney, says: "When we detach ourselves from emotional, symbolic and conventional notions, we realize the heart is a double pump with a fairly well-known output," and adds, "Should the only other alternative be death, one might prefer to have an artificial heart in the chest, even if some wires or thin tubes would have to come out of the chest wall to provide the power."

Assistant Versus Full-Time Hearts. Dr. Kolff has already kept dogs alive for hours with a total "heart" while Dr. Adrian Kantrowitz at Maimonides, applying an auxiliary or assistant heart—has kept his dogs alive for days, even a month.

The Kantrowitz assistant heart looks much like a flattened rubber ball with a double wall, the inner portion flexible so it can pulse like its human counterpart as air flows into the outer section. Both sections are made of *dacron-reinforced Silastic 372*, and pumped by a unit driven by air. Two teflon-coated stainless-steel electrodes are sutured to the heart and air-pumped from a portable battery-driven pack worn on the dog's back. Dr. Kantrowitz' colleagues claim this "assistant" heart has kept dogs alive for weeks; one animal, 32 days!

Heart to Heart. The total-replacement "heart" Dr. Kolff has developed in Cleveland has kept his dogs alive and kicking 29 hours. This fantastic medical-electronic achievement is the end result of a long dismaying struggle. The first "heart" of the series, fashioned of *polyvinyl chloride* and powered by a reciprocating pump and an oscillating column of air was a dismal failure.

The next, made of *polyurethane VC*, a plastic thought to be kinder to blood cells, was powered by five solenoid magnets and its valve design improved. This "heart"—tested in January of 1959—only one month after the failure of the first—kept a dog alive two hours.

But this pump ran into troubles too. The magnets were clumsy, large and heavy. Then a Dutch engineer suggested trying pulsed current rather than AC or DC and with this current, it was possible to use solenoids one-fifth the weight of the earlier ones.

Try Motors. Dr. Wolff's men then built tiny electromotors to fit into a chest cavity, and NASA engineers came up with the 64-

dollar answer—try a pump driven by air or gas. Two compressed-air-driven "hearts" were then built, one that pushed blood with a rolling diaphragm, the other pumping blood from a plastic sack compressed within a rigid plastic shell.

"It is the sack-type heart that has kept an animal alive as long as twenty-six hours," Dr. Kolff says. He feels the air-driven version may become humanly practical long before other "hearts." When air is pressed into the rigid housing surrounding the plastic sack of an air-driven heart, the heart pumps much like the human original.

One Coil to Another Coil. Another "heart"—one powered by two stationary coupling coils, the first coil within the chest wall, the second outside—has been developed at the University of Missouri. During the day, the patient would wear a battery pack. The pack's energy, transformed to high frequency by a transistorized oscillator, would set up a magnetic field that would charge the inner coil.

At night the patient would be free of the pack, and could draw power from coils set up around his bed. This unique system is already being tested by implanting coils in dogs. The dogs then live in cages where coils have been installed in the walls.

But the ultimate in artificial hearts, as some of our advanced doctors forecast, may well be powered by the body's own electrical currents. Already one doctor in New Jersey believes we can convert the body's mechanical energy into electrical energy.

Taking New Heart. With such amazing prospects for the future it is only natural to ask, how soon will we be able to order new hearts? Soon, say the experts.

Dr. Walton Lillelei believes, "Hearts will be artificially replaced in man within ten years—and that's a conservative estimate." While Dr. Kolff retorts, "I'll be disappointed if a synthetic heart does not replace the human heart within three years." And when the Doctor says that, a staff member smiles as he recalls the day they kept a calf alive 29 hours on an artificial heart: "In case you think we had only clinical life there, four people had their hands full keeping that 150 pounds of cow from getting off the table during those hours."

If the coming artificial heart adds that much spunk to man's disposition this writer would like to add her prediction to that of the famed Doctors': We are in for an exciting era ahead. ■

Snap Your TV Pic

Continued from page 52

Your photo dealer can help you select the correct lens for your camera.

Also, in using your viewfinder be careful of *parallax*. When you are in this close, your viewfinder *may* not be showing exactly what the film will record, and you will have to correct for this parallax in the mounting of your camera. Best bet is to adjust the tripod so that the camera lens is exactly centered on the screen determined by simple plumb line measurement.

For recording black-and-white television images, use a medium speed film like Kodak Verichrome Pan or Kodak Plus-X Pan Film with your lens opening set at $f/3.5$ and a shutter speed of $1/25$ - or $1/30$ -second for a camera with between-the-lens shutter (the type most of us own). Use a lens opening of $f/6.3$ and shutter speed $1/10$ -second for a camera with a focal plane shutter.

You'll get best results in black-and-white if the film is given about 50 per cent more development time than normal—either in your own darkroom or by a custom photo-finisher. The extra processing cost will *not* raise the price more than 50 per cent—as a rule of thumb.

For recording from color television, you'll need a fast color film like Kodak Improved High Speed Ektachrome Film, Daylight Type, in a camera with between-the-lens shutter and a maximum lens opening of at least $f/2.8$. With this film you will need a filter to absorb ultraviolet radiation from the color television tube—a Kodak Wratten 2B or Kodak Skylight Filter will work well. Use a shutter speed of $1/30$ -second.

One more word of advice: Recording images from television can be fascinating, particularly of an historical event like a Met home run. Screen images change often and you'll have the urge to record every one.

Now, a note of caution: If your fascination carries over into photographing regularly-scheduled TV programs or commercials, the material you record may be copyrighted and, you may be violating the copyright by making pictures. You have to make that decision. But unless you are certain no copyright is involved, do not—under any circumstances—make any commercial use of pictures you may take from television for your own entertainment. ■

Replacement Guide

Continued from page 46

the unit's operation after replacement has been made. If the unit works properly without circuit parts overheating (cathode, plate and screen resistors in particular) all is well. However, if the unit does not function as it should, shows signs of overheating, or pops fuses, forget the substitution and obtain the exact replacement.

Note that some replacement parts are starred (*). These tubes have different heater currents than those they replace. Do not use these tube types in sets that have series connected filament circuits. ■

The Neophyte's Dx'er

Continued from page 43

how: For minor changes in frequency, from those originally covered by the DX'er, remove or add a few turns to L1. If you add turns the tuning range will be lowered in frequency. If you remove turns, the tuning range will increase in frequency. For major variations, the number of turns on both L1 and L2 will have to be changed, along with the tap on L1. The tap on coil L1 will be about $\frac{1}{8}$ to $\frac{1}{4}$ of the way to the ground end of the coil. Coil L2 will be about 15 to 25% of the turns on L1.

The DX'er can be made to cover the standard broadcast band by substituting a tapped ferrite antenna coil (such as the Lafayette 32G4108) for L1. Coil L2 will be about 15 turns of No. 30 wire wound on top of the ferrite antenna coil.

In the modifications outlined above, some experimentation will be necessary to find the best position for the tap on L1, and the number of turns on coil L2.

Although the DX'er was meant to be used with high impedance (1 to 4 kilohm) headsets, enough output is obtained on strong signals to drive a small speaker. To use a speaker with the DX'er, connect the primary of a matching transformer such as the Lafayette 99G6201 (2-kilohm primary, 10-ohm secondary) to jack J1. The secondary winding is connected to the speaker.

Crystal earphones can be used with the DX'er by connecting a 2.2-kilohm, $\frac{1}{2}$ -watt resistor in shunt with the terminals on J1. Now listen in to some good DX. ■

GET READY FOR THE SPACE and SCIENCE ERA! SEE SATELLITES, MOON ROCKETS CLOSE-UP

AMAZING SCIENCE BUYS

for FUN, STUDY or PROFIT



See the Stars, Moon, Planets Close Up! 3" ASTRONOMICAL REFLECTING TELESCOPE

Photographers! Adapt your camera to this Scope for excellent Telephoto shots and fascinating photos of moon!



60 TO 180 POWER! Famous Mt. Palomar Type! An Unusual Buy! See the Rings of Saturn, the fascinating planet Mars, huge craters on the Moon, phases of Venus. Equatorial Mount with lock on both axes. Aluminized and overcoated 3" diameter high-speed 1/10 mirror. Telescope equipped with a 60X eyepiece and a mounted Barlow Lens. Optical Finder Telescope included. Hardwood, portable tripod. FREE with Scope: Valuable STAR CHART plus 272-page "HANDBOOK OF HEAVENS" plus "HOW TO USE YOUR TELESCOPE" BOOK.

Stock No. 85,050-HP.....\$29.95 Postpaid

4 1/4" Reflecting Telescope—up to 225 Power
Stock No. 85,105-HP.....\$79.50 F.O.B.

Superb 6" Reflector Telescope
Up to 576 Power. Equatorial mount and Pedestal Base.
Stock No. 85,086-HP.....\$199.50 F.O.B.

BRILLIANT ELECTRONIC FLASH TUBES FOR PHOTOGRAPHERS & MECHANICS

Time your car ignition, use for photo flash, signal light, control device or as strobe light. These light tubes, filled with Xenon gas, have glass envelopes with sealed electrode at each end. Mfd. by G. E. Instructions incl.

Low voltage tube for low energy repetitive flash applications. Operates on an anode between 120- and 500-V., 2-1/8" lg. x 1/2" diam. For ignition timing, uses 130-V. with 30 mfd. discharge capacitor. 4-sec. sv. flash rate, 20-hr. approx. life.

Stock No. 40,725-HP.....\$5.20 Ppd.

Portable photo equipment applications in covered reflectors or housings protecting user from contact with high voltage. Low operating voltage (400- to 550-V.) well suited for use with electrolytic type capacitors. 2 1/2" high x 3/4" diam., mounted on a 1-3/8" diam. x 1/16" thick wafer base designed to be crimped into a reflector. Three pins serve as soldering terminals. Typical photo flash application uses 450-V. on the anode with 1050 mfd. capacitance. 4200 lumen-sec output, peak lumen output 4 x 106, 2/min flash rate.

Stock No. 40,726-HP.....\$9.00 Ppd

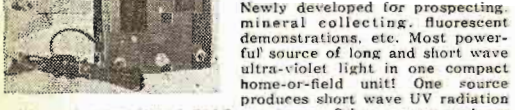
MAKE YOUR OWN POWERFUL ASTRONOMICAL TELESCOPE

Grind Your Own Astronomical Mirror. Kits contain mirror blank, tool, abrasives, diagonal mirror and eyepiece lenses. You build instruments ranging in value from \$75.00 to hundreds of dollars.

Stock No.	Diam.	Mirror Thickness	Price
70,003-HP	4 1/4"	1/4"	\$ 7.50 ppd.
70,004-HP	6"	1/2"	11.95 ppd.
70,005-HP	8"	1 1/8"	19.50 ppd.
70,006-HP	10"	1 3/8"	30.75 l.o.b.
70,007-HP	12 1/2"	2 1/8"	59.95 l. Barrington

BARGAIN! LONG & SHORT WAVE ULTRA-VIOLET LIGHT SOURCE

Small! Lightweight!
Portable! Most Powerful
at the Price!



Newly developed for prospecting, mineral collecting, fluorescent demonstrations, etc. Most powerful source of long and short wave ultra-violet light in one compact home-or-field unit! One source produces short wave UV radiation

with peak intensity of 2537 angstroms. Other source produces long wave UV with peak intensity of 3660 angstroms. Unit has rugged all-metal housing, special circuitry for battery conservation, easy access for replacing tubes, extra large filters. Operates on house current or batteries. Lightweight, only 1 lb. 5 oz. Compact 5 1/2" x 2" x 8 1/2". Fully guaranteed & identified mineral specimens included.

Stock No. 70,259-HP.....\$24.95 Postpaid
BATTERY ADAPTER CASE with shoulder strap.
Stock No. 70,260-HP.....\$5.75 Postpaid

MAIL COUPON for FREE CATALOG "HP"

EDMUND SCIENTIFIC CO., Barrington, N. J.
Completely New 1965 Edition, 148 pages.
Nearly 4000 Unusual Bargains.
Please rush Free Giant Catalog-HP.

Name.....
Address.....
City..... Zone..... State.....



SOLVE PROBLEMS! TELL FORTUNES! PLAY GAMES! NEW WORKING MODEL DIGITAL COMPUTER



ACTUAL MINIATURE VERSION OF GIANT ELECTRONIC BRAINS

Fascinating new see-through model computer actually solves problems, teaches computer fundamentals, Adds, subtracts, multiplies, shifts, complements, carries, memorizes, counts, compares, sequences. Attractively colored, rigid plastic parts easily assembled. 12" x 3 1/2" x 4 3/4". Incl. step-by-step assembly diagrams.

32-page instruction book covering operation, computer language (binary system), programming, problems and 15 experiments.

Stock No. 70,683-HP.....\$5.00 Postpaid

EXPLORE THE WORLD OF "OP ART"



Fascinating New MOIRE' PATTERNS KIT

Fantastic Visual Effects!
Limitless Applications.

Now! Experiment with the amazing new tool of tomorrow. Basis of "OP ART"—latest rage sweeping the country in art, fashion, packaging industries. 1,000's of uses for hobbyists, photographers, designers, lab and home experimenters. Fun! Profitable! Unlimited potential. Here's your complete introduction to this new technology in one simplified, inexpensive kit developed by Dr. Gerald Oster, Brooklyn Poly. Inst. Contains 8 basic items on both clear acetate and lantern slide size 3 1/4" x 4" (.050" thick) and .010" thick white Kromekote paper 3 1/4" x 4 1/2" (coated one side): (1) Coarse grating, (2) 65-line grating, (3) Logarithmic scale grating, (4) Radial lines, 5-degrees, (5) Equipaced circles, (6) Fresnel zone plate, (7) Sphere projection, (8) Cylinder projection; one piece 3 1/4" x 4" 150-dot screen on film; copy Dr. Oster's book, "The Science of Moire' Patterns," an authoritative introduction to the fascinating world of moire'.

Stock No. 70,718-HP.....\$6.00 Ppd.
Stock No. 60462-HP—Same as above without book \$4.00 Ppd.

MOIRE' PATTERN ACCESSORY KIT. For additional experiments. Incl. metallic balloon, calcite, two kinds of diffracting gratings, one-way mirror foil, polarizing materials, Ronchi rulings, assortments of lenses.

Stock No. 60,487-HP.....\$8.00 Ppd.

Astonishing 3-Dimensional Color Effects NEW MULTI-LENS THERMOPLASTIC SHEETING 10,000 Parabolic Lenses Per Sq. Inch

Art or type appears to float or sink . . . illusion of depth up to 3/4". Accepts art work, silk screen painting, quality lithography. Used at World's Fair by Disney and Dali. Resists soiling—easily cleaned. 22 1/2" x 54" sheets. MULTI-LENSED LAMINATED SHEETS—MOIRE' PATTERN.

Stock No. 70,728-HP, Translucent, colorless . . . \$ 9.50 Postpaid
Stock No. 70,729-HP, Vacuum-metalized back, chrome colored . . . \$12.50 Postpaid
(Other sheets and sizes available)

RUGGED, LOW-PRICED EXPERIMENTAL ELECTRO-MAGNET

Hobbyists, instructors and industrial lab men will find this well-built Electro-Magnet invaluable. Demonstrate principles of electro-magnetism. Actually lifts 100 lbs. when powered by a single 1 1/2V flashlight battery. Easily deactivated. Includes instructions for 6 experiments—lifting power, magnetic flux and magnetomotive force, air gap, area of contact, retentivity and field configuration. Unit includes magnet and yoke assembly, battery holder, leads, clips and cybofile. Steel core and yoke precision ground for max. flatness. About 2 1/2" dia. x 4 1/2" lg. Wt. 2 lbs.



Stock No. 60,435-HP.....\$10.00 Postpaid

Instantly Copy and Measure Contours NEW MAGNETIC CONTOUR GAGE



Contour gage with magnetic rods-to-holder, linkage, instantly conforms to irregular shapes, instantly lock copied information and measures it directly. 160 rods, arranged side by side independently within a permanent magnet holder. Rods linked to holder by magnetic attraction, provides optimum sliding and gripping action. Can be locked positively, without distortion, by flipping lever. Patented precision tool unequalled for restoring, repairing and duplicating wood and metal; making models, samples, patterns and molds; quality control; prototype transfer; floor and wall covering installation. Use for checking tire tread wear; plastic fabrication; making die-cut inserts for paper boxes, etc. Forms both inside (match) and outside (fit) profiles with single motion. Direct reading scales for taking both horizontal and vertical measurements of portions of contour. Can be read from either end to accuracy of 1/32". Rods can be instantly reigned. Measures contours up to 6" lg. and 3 1/4" high. Stainless and chrome-plated steel, tempered rods have tapered ends. Overall meas. 5 3/4" lg. x 4" high x 3/4" deep. In saddle-stitched, suede-lined case. Instructions inc. Wgt. approx. 14-oz.

Stock No. 60,507-HP.....\$13.95 Ppd.

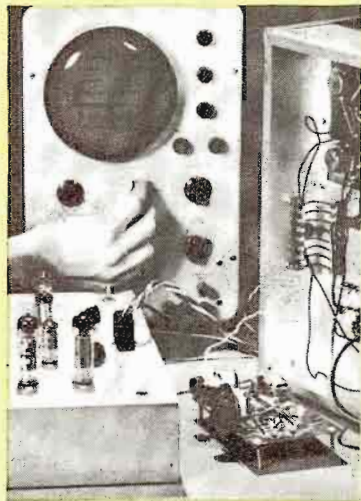
ORDER BY STOCK NUMBER. SEND CHECK OR MONEY ORDER. SATISFACTION GUARANTEED.
EDMUND SCIENTIFIC CO., BARRINGTON, N. J.

BUILD, EXPERIMENT, EXPLORE, DISCOVER WITH NRI CUSTOM-DESIGNED TRAINING KITS



BUILD YOUR OWN PHONE/CODE TRANSMITTER

This is just one of seven training kits programmed into NRI's Complete Communications course. You get actual practice in building your own crystal-controlled, phone/code transmitter and putting it on the air. You experiment with modulation, "clamping" circuits, key filters, other aspects of commercial transmitter operation. Can be put on the air simply by attaching an antenna and complies with FCC regulations. As with all NRI training kits, you get the most modern features and parts.



BUILD ACTUAL ANALOG COMPUTER CIRCUITS

Industry, business offices, the government and military all need trained Electronics Technicians. NRI's Industrial Electronics course prepares you. You progress through 10 carefully designed training kits, topping off your practical experience phase of training by experimenting with feedback control systems, analog computers and digital computer elements. You actually solve problems on this analog computer you build yourself. This is the *practical*, fast way to a good paying, career position.



BUILD A CUSTOM-ENGINEERED TELEVISION RECEIVER

Want to earn \$3 to \$5 an hour in spare time? Want your own part-time or full-time business? In Radio-TV Servicing you learn to install, maintain, service radios, TV sets, hi-fi and stereo, other home Electronics equipment. In your training are eight training kits, including this complete, modern, slim-line TV receiver. You build it yourself, become familiar with components and circuits, learn servicing procedures . . . and earn extra money as you train. National Radio Institute, Washington, D.C.

SEE OTHER SIDE ▶

Join the Thousands Who Gained Success with NRI



"I am Frequency Coordinator for the 11th Naval District. The course was priceless." J. J. JENKINS, San Diego, Calif.



"Many thanks to NRI. I hold FCC License, am master control engineer with KXIB-TV." R. L. WOOD, Fargo, N.D.



"I am a Senior Engineering Aide. Without NRI I would still be working in a factory at a lower standard of living." D. F. CONRAD, Reseda, Calif.



FIRST CLASS
PERMIT
NO. 20-R
Washington, D.C.

BUSINESS REPLY MAIL

NO POSTAGE STAMP NECESSARY IF MAILED IN THE UNITED STATES

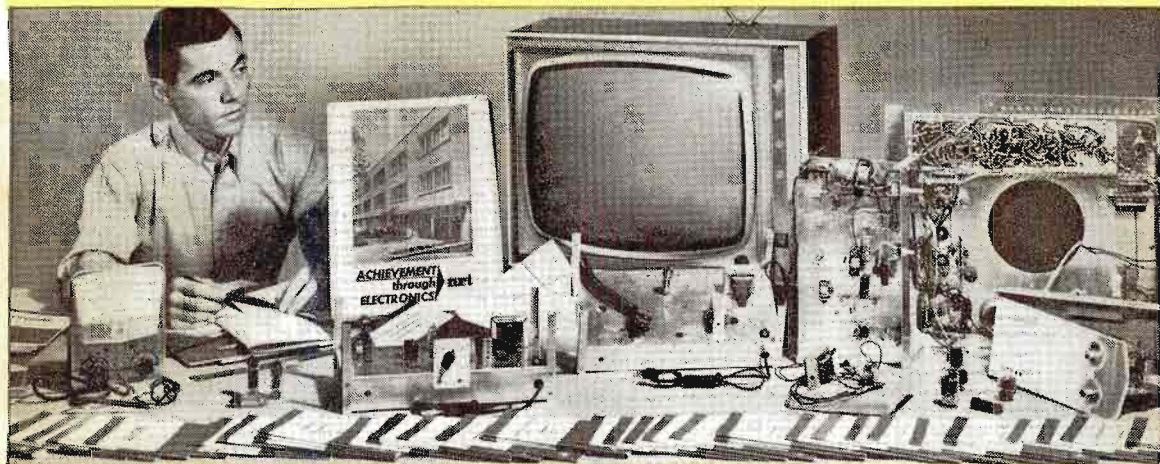
POSTAGE WILL BE PAID BY

NATIONAL RADIO INSTITUTE
3939 Wisconsin Avenue
Washington, D.C. 20016



YOU GET MORE FOR YOUR MONEY FROM NRI

Below is an example of material included in just one NRI course. Other NRI home study plans are equally complete.



AMERICA'S OLDEST AND LARGEST RADIO-TV, ELECTRONICS HOME-STUDY SCHOOL

Compare if you like. You'll find—as have so many thousands of others—that NRI training can't be beat. From the delivery of your first lessons in the remarkable, new Achievement Kit sent the day we receive your enrollment, to "bite-size," easily read texts and carefully designed training equipment . . . NRI gives you more value. The picture above dramatically illustrates the material included in just one NRI course. Everything you see is included in low-cost NRI training. But NRI is more than kits and texts. It's also friendly, per-

sonal services which have made NRI a 50 year leader in the home study field.

Whatever your interest or need . . . whatever your education . . . there is an NRI instruction plan in Radio-TV Servicing, Electronics or Communications to fit your needs; tuition rates to fit your budget. Prove to yourself—your best home-study buy is NRI. Mail postage-free card today. No salesman will call. NATIONAL RADIO INSTITUTE, Electronics Division, Washington, D.C. 20016.

◀ SEE OTHER SIDE

National Radio Institute, Electronics Division
Washington, D.C. 20016 5-085

Please send me your catalog. I have checked the field(s) of most interest to me. (No salesman will call) PLEASE PRINT.

- | | |
|--|---|
| <input type="checkbox"/> Television-Radio Servicing | <input type="checkbox"/> Math for Electronics |
| <input type="checkbox"/> Complete Communications | <input type="checkbox"/> Electronics for Automation |
| <input type="checkbox"/> Industrial-Military Electronics | <input type="checkbox"/> Aviation Communications |
| <input type="checkbox"/> FCC License | <input type="checkbox"/> Marine Communications |
| <input type="checkbox"/> Basic Electronics | <input type="checkbox"/> Mobile Communications |



**NOW 10
WAYS to
train at home
MAIL CARD
NO POSTAGE
REQUIRED**



OVER 50 YEARS
OF LEADERSHIP IN
ELECTRONICS TRAINING

Name _____ Age _____

Address _____ Zip Code _____

City _____ State _____

ACCREDITED MEMBER NATIONAL HOME STUDY COUNCIL

