

WHY MAGNETS CAN MAKE YOU LIVE LONGER

Radio-TV EXPERIMENTER

AUGUST-SEPTEMBER 75¢

**WHITE'S
RADIO
LOG**

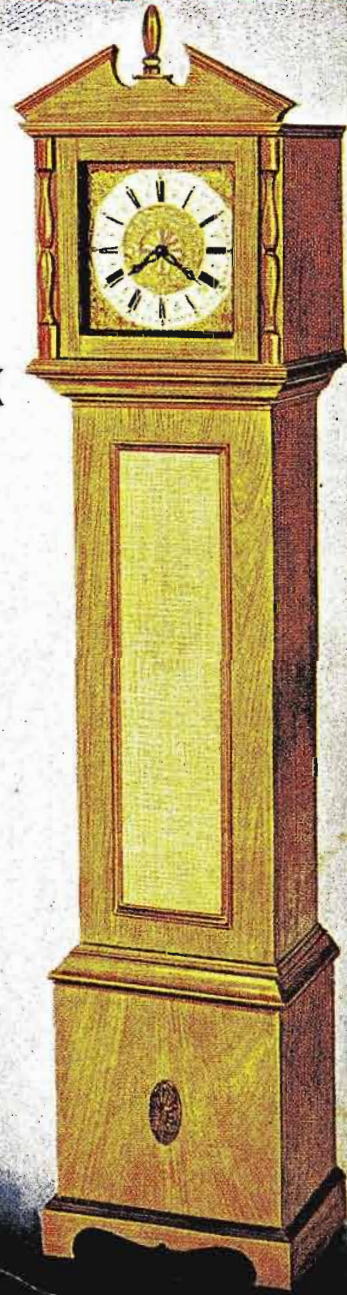
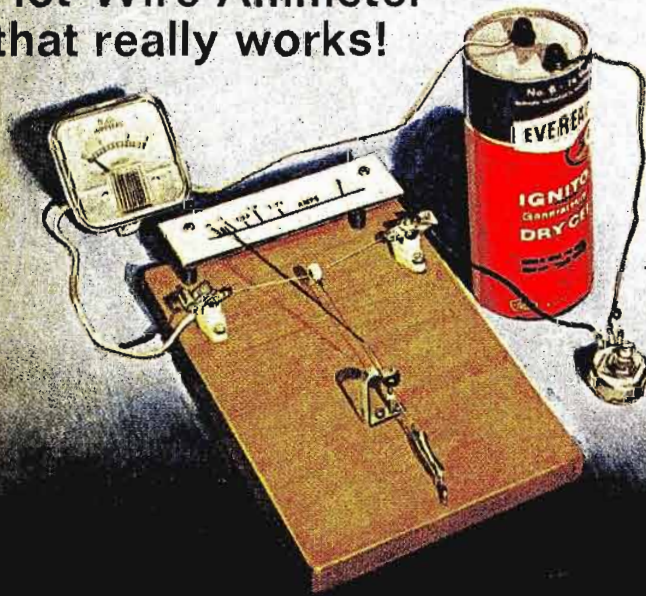
- AM Stations
- Worldwide SW
- Police/Emergency

Science and Electronics

S/E PUTS A SPEAKER IN GRANDFATHER'S CLOCK

You build the grandpa bit first, complete with speaker.
You end with a timepiece that doubles as
the most unusual speaker system going!

Build a
Hot-Wire Ammeter
that really works!



Science-Fair Winner—Electrostatic Battery With Bounce

EICO Makes It Possible

Uncompromising engineering—for value does it!
You save up to 50% with Eico Kits and Wired Equipment.



Cortina Stereo

THE VERDICT IS IN. High fidelity authorities agree:

Cortina's engineering excellence, 100% capability, and compact dramatic esthetics all add up to Total Stereo Performance at lowest cost.

A Silicon Solid-State 70-Watt Stereo Amplifier for \$99.95 kit, \$139.95 wired, including cabinet. Cortina 3070

A Solid-State FM Stereo Tuner for \$99.95 kit, \$139.95 wired, including cabinet. Cortina 3200.

A 70-Watt Solid-State FM Stereo Receiver for \$169.95 kit, \$259.95 wired, including cabinet. Cortina 3570.

NEW Silicon Solid State 150-Watt Stereo Amplifier designed for audio perfectionists. Less than 0.1% harmonic distortion, IM distortion. Less than 0.6% at full output. Controls and inputs for every music source. \$149.95 kit, \$225.00 wired including cabinet. Cortina 3150.

NEW 70-Watt Solid State AM/FM Stereo Receiver for \$189.95 kit, \$279.95 wired including cabinet. Cortina 3770.

Eicocraft

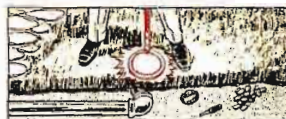
The newest excitement in kits.

100% solid-state and professional.

Fun to build and use. Expandable, interconnectable. Great as "jiffy" projects and as introductions to electronics. No technical experience needed. Finest parts, pre-drilled etched printed circuit boards, step-by-step instructions.

EC-100 Electronic Siren \$4.95, EC-101 Electronic Burglar Alarm \$6.95, EC-102 Electronic Fire Alarm \$6.95, EC-200 Electronic Intercom \$5.95, EC-300 Audio Power Amplifier \$5.95, EC-400 Electronic Metronome \$3.95, EC-500 Tremolo \$9.95, EC-600 Electronic Light Flasher \$3.95, EC-700 Electronic "Mystifier" \$4.95, EC-800 Photo Cell Nite Lite \$4.95, EC-900 Power Supply \$8.95, EC-1000 Code Oscillator \$2.50, EC-1100 FM Wireless Mike \$9.95, EC-1200 AM Wireless Mike \$9.95, EC-1300 Electronic VOX \$8.95, EC-1400 Solid State FM Radio \$9.95, EC-1500 Solid State AM Radio \$8.95, EC-1600 Electronic Bongos \$7.95

EICOCRAFT



6 EXCITING NEW PROJECTS

EC-1700 Ham/CB Vox \$8.95, EC-1800 Electronic "TOX" \$8.95, EC-1900 "Treasure Finder" \$9.95, EC-2000 Electronic Organ \$9.95, EC-2100 Electronic "Eye" \$9.95, EC-2200 Electronic "Magic" Switch \$9.95

Color n' Sound



Add a new dimension to your music system. Introducing the first inexpensive solid-state electronic system which provides true synchronization of color with sound. Watch the music you love spring to life as a vibrant, ever shifting interplay of colors.

Simply connect to speaker leads of your Hi-Fi system (or radio). Kit can be assembled in several hours — no technical knowledge or experience necessary. Kit \$49.95, Wired \$79.95.

Automotive

EICO 888—Car/Boat Engine Analyzer.

For all 6V/12V systems; 4, 6, 8-cyl. engines.

Now you can keep your car or boat engine in tip-top shape with this solid-state, portable, self-powered universal engine analyzer. Completely tests your total ignition/electrical system.

Complete with a Tune-up & Trouble-shooting Manual. Model 888; \$49.95 kit, \$69.95 wired.



Test Equipment EICO®

100 best buys to choose from.

"The Professionals"
—laboratory precision at lowest cost.

Model 460 Wideband Direct-Coupled 5" Oscilloscope. DC-4.5mc for color and B&W TV service and lab use. Push-pull DC vertical amp., bal. or unbal. input. Automatic sync limiter and amp. \$99.95 kit, \$149.95 wired.

Model 232 Peak-to-Peak VTVM. A must for color or B&W TV and industrial use. 7 non-skip ranges on all 4 functions. With exclusive Uni-Probe.® \$34.95 kit, \$49.95 wired.

FREE 1969 CATALOG

RTVE-8

EICO Electronic Instrument Co., Inc.
283 Maita Street, Brooklyn, N.Y. 11207
 Send me FREE catalog describing the full EICO line of 200 best buys, and name of nearest dealer.

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Address _____

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State _____ Zip _____

WHITE'S RADIO LOG

An up-to-date Directory of North American AM, FM, and TV Stations, including special sections on World-Wide Shortwave Stations and Emergency Stations for Selected Areas

WHITE'S RADIO LOG CONTENTS FOR 1969*

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* If you save six consecutive issues of Radio-TV Experimenter and Science and Electronics, you will have a complete White's Radio Log. If you have missed an issue, you may be able to get a copy by writing directly to the publisher stating which issue you wish and enclosing \$1.00 for each issue.

U. S. FM Stations by States

WHITE'S RADIO LOG

Location	C.L.	MHz	Location	C.L.	MHz	Location	C.L.	MHz
Fayetteville	KELD-FM	103.1	Los Angeles-Avalon	KBIG-FM	104.3	Sierra Madre	KMAX	107.1
	KFAV	99.9		KLBS-FM	95.9	Stanford	KZSU	90.1
Ft. Smith	KNWA	103.9	Los Banos	KLGS	95.3	Stockton	KJOP	92.7
	KFPW-FM	94.9	Los Gatos	KRFD	99.9		KJAX	95.3
	KMAG	99.1	Marysville	KMFB-FM	92.7	Tahoe Valley	KWG-FM	105.7
Harrison	KTCS-FM	99.9	Mendocino	KAMB	101.5	Thousand Oaks	KTHO-FM	103.1
Hot Springs	KHOZ-FM	102.9	Merced	KBEE-FM	103.3	Torrance	KNJO	95.3
	KBHS-FM	96.7	Modesto	KTRB-FM	104.1	Tracy	KNHS	89.7
Jacksonville	KGUS	97.5		KDHS	90.5	Tulare	KSRT	100.9
Jonesboro	KGMR-FM	100.3	Mojave	KDOL-FM	97.7	Turlock	KBOS	94.9
	KBTM-FM	101.9	Monterey	KWAY	96.9	Twenty-Nine Palms	KOSO	93.1
Little Rock	KASU	91.9	Newport Beach	KOCM	103.1		KDHI-FM	95.7
	KARK	103.7	Northridge	KEDC-FM	88.5	Ukiah	KUKI-FM	93.5
	KAAV-FM	98.5	Oakland	KAFE	98.1		KLIL	94.3
	KMMK	94.1	Oceanside	KUDE	102.1	Vacaville	KVFS	95.3
	KMYO-FM	95.7	Ontario	KSOM-FM	93.5	Ventura-Oxnard	KVEN-FM	100.7
Magnolia	KFMV	102.9	Oxnard	KPMJ	104.7	Visalia	KONG-FM	92.9
Mammoth Springs	KAMS	103.9	Pacific Grove	KOCN	104.9	Walnut Creek	KDFM	92.1
Mena	KENA-FM	101.7	Palm Springs	KGEC	104.7	West Covina	KBQB	98.3
Monticello	KHBM-FM	93.5	Pasadena	KPCS	89.3	Woodland	KRBT	102.5
Newport	KNBY-FM	105.5	Redding	KPPC-FM	106.7			
Osceola	KOSE-FM	98.1	Redondo Beach	KEWB	104.3			
Pine Bluff	KOTN-FM	92.3	Redlands	KKOP	93.5			
Poehontas	KPFB	103.9	Ridgecrest	KCAL-FM	96.7			
Siloam Springs	KUOA-FM	105.9	Riverside	KUOR	104.7			
Springdale	KSPR-FM	104.9	Roseville	KLOA-FM	105.5			
Texarkana	KADO	107.1	Sacramento	KBBL	99.1			
Wynne	KWYN-FM	92.7		KACE-FM	92.7			
				KDUO	97.5			
				KUCR	88.1			
				KPOP-FM	93.5			
				KFTC	95.1			
				KERS	90.7			
				KFBK-FM	92.5			
				KEBR	100.5			
				KHIQ	105.1			
				KJML	106.5			
				KRAK-FM	92.9			
				KSF	95.3			
				KXOA-FM	107.9			
				KZAP	98.5			
				KSBW-FM	102.5			
				KRSA-FM	100.7			
				KERR	103.9			
				KVCR	91.9			
				KFMW	99.9			
				KRCS	89.5			
				KOGO-FM	94.1			
				KBKB	101.5			
				KEBS	89.5			
				KFMB-FM	100.7			
				KFMX	96.5			
				KTT	105.3			
				KDID	98.1			
				KLRO	94.9			
				KPRI	106.5			
				KSDS	88.3			
				KBBW	102.9			
				KSDO-FM	103.7			
				KSA	97.3			
				KVFM	94.3			
				KALW	91.7			
				KBRG	105.3			
				KCBS-FM	98.9			
				KDFC	102.1			
				KEAR	97.3			
				KFOG	104.5			
				KFMS	106.1			
				KGO-FM	105.7			
				KIOI	101.3			
				KNBR-FM	99.7			
				KMPX	106.9			
				KOIT	93.3			
				KQED-FM	88.5			
				KRON-FM	96.5			
				KSAN	94.9			
				KCMA	90.3			
				KBRG	105.3			
				KABL-FM	98.1			
				KKHI-FM	95.7			
				KJSJ-FM	92.3			
				KBAY	100.3			
				KRPM	98.5			
				KSJS	90.7			
				KPLX	106.5			
				KATY-FM	96.1			
				KCPR	91.3			
				KSBY-FM	93.3			
				KCSM	90.9			
				KVEZ	107.7			
				KTIM	100.9			
				KWIZ-FM	96.7			
				KVMS	106.3			
				KCSB-FM	91.5			
				KQB-FM	93.7			
				KMUZ	103.3			
				KTMS	97.5			
				KSCU	90.1			
				KREP	105.7			
				KSCO-FM	99.1			
				KXFM	99.1			
				KSMA-FM	102.5			
				KCRW	89.9			
				KSRF	103.1			

WHITE'S RADIO LOG

Location	C.L.	MHz
Mt. Vernon	KRNL-FM	89.7
Muscatine	KWPC-FM	99.7
Newton	KCOB-FM	95.9
Oskaloosa	KBOE-FM	104.9
Pella	KCU1	89.1
Sioux Center	KDCR	91.3
Sioux City	KDVR	97.9
Spencer	KICD-FM	107.7
Storm Lake	KAYL-FM	101.5
Waterloo	KNWS-FM	101.9
	KWWL-FM	107.9
	KXEL-FM	105.7
Waukon	KNEI-FM	103.9
Waverly	KWAR	89.1

KANSAS

Abilene	KABI-FM	98.3
Baldwin	KNUB	86.9
Dodge City	KGNO-FM	95.5
Emporia	KSTE	88.7
	KVOE-FM	104.9
Garden City	KUPK-FM	97.3
Hutchinson	KSKU	102.1
Independence	KIND-FM	101.7
Junction City	KJCK-FM	94.5
Kansas City	KJCJ-FM	96.1
	KCKN-FM	94.1
Larned	KANS-FM	96.7
Lawrence	KANU	91.5
	KLWN-FM	105.9
Leavenworth	KCLO-FM	98.9
Liberal	KJRL	99.3
Manhattan	KSDB-FM	88.1
Newton	KJRG-FM	92.3
Ottawa	KTIO-FM	88.1
	KOFO-FM	95.7
Parsons	KPPS-FM	91.1
Pratt	KWNS-FM	93.1
Russell	KRSL-FM	95.9
Salina	KAFM	99.9
Scott City	KFLA-FM	94.5
Topeka	KTDF	100.3
	KEWI-FM	107.7
Wichita	WIBW-FM	97.3
	KFH-FM	100.3
	KARD	107.3
	KEYN-FM	103.7
	KQTY	101.3
Winfield	KMUW	89.1
	KSWO	88.3

KENTUCKY

Albany	WANY-FM	106.3
Ashland	WCMI-FM	93.7
Beattyville	WLJC	102.3
Benton	WCBL-FM	102.3
Bowling Green	WLBJ-FM	96.7
Campbellsville	WTCO-FM	103.9
Carrollton	WVCM	100.1
Central City	WNES-FM	101.9
Columbia	WAIN-FM	93.5
Corbin	WCTT-FM	107.1
	WYGO-FM	99.3
Cynthiana	WCYN-FM	102.3
Danville	WHIR-FM	107.1
Elizabethtown	WQXE	106.3
Erlanger	WHKJ	100.9
Ft. Campbell	WABD-FM	107.9
Ft. Knox	WSAC-FM	105.5
Frankfort	WKYW	104.9
Fulton	WFUL-FM	104.9
Georgetown	WRVG	90.1
Glasgow	WGGC	95.1
Grayson	WGOH-FM	102.3
Hazard	WKIC-FM	101.1
Henderson	WSON-FM	95.5
Hopkinsville	WHOP-FM	98.7
Jamestown	WJRS-FM	103.1
Leitchfield	WMTL-FM	104.9
Lexington	WBKY	91.3
	WLAP-FM	94.5
	WLEX-FM	98.1
	WVLK-FM	92.9
Louisville	WFPK	91.9
	WFPL	89.3
	WHAS-FM	97.5
	WKLO-FM	99.7
	WKRX	106.9
	WLRS	102.3
Madisonville	WFMW-FM	93.9
	WNGO-FM	94.7
Manchester	WLCO-FM	102.3
Maysville	WXL-FM	103.1
Morehead	WFTM-FM	95.9
	WFLW-FM	101.7
	WMOR-FM	92.1

Location	C.L.	MHz
Morganfield	WMKY-FM	91.1
Murray	WMSK-FM	95.3
Owensboro	WMST-FM	105.5
	WAWW	103.7
	WOMI-FM	92.5
	WVJS-FM	96.1
Paducah	WPAD-FM	96.9
	WKYX-FM	93.3
Paintsville	WSTP-FM	100.1
Paris	WPDE-FM	96.7
Pikeville	WPKE-FM	92.1
Prestonburg	WDOC-FM	95.5
	WPRF-FM	105.5
Richmond	WEKU-FM	88.9
Russellville	WRUS-FM	101.1
St. Matthews	WSTW	103.1
Scottsville	WLCK-FM	99.3
Somersett	WSEK	96.7
	WSSC	90.7
Stanford	WRSL-FM	95.9
Whitesburg	WTCW-FM	104.9

LOUISIANA

Alexandria	KALB-FM	96.9
	KDBS-FM	100.3
Ames	KLFB	104.1
Baton Rouge	WJBO-FM	102.5
	WAFB-FM	98.1
	WQXY-FM	100.7
	WYNK-FM	101.5
	KDLA-FM	101.7
DeRidder	KLEB-FM	94.3
Golden Meadow	WTGI	103.3
Hammond	KCLL	107.1
Houma	KHOM	104.1
	KJEF-FM	92.7
Jennings	KTOC-FM	104.9
Jonesboro	KRVS-FM	88.3
Lafayette	KPEL-FM	99.9
	KSMB	94.5
Lake Charles	KPLC-FM	99.5
	KIKS-FM	96.1
La Place	WCKW	92.3
Monroe	KMLB-FM	104.1
	KNOE-FM	101.9
	KREB	106.1
Morgan City	KMRC-FM	96.7
Mt. Vernon	KRNL-FM	103.3
Natchitoches	KNOG-FM	97.7
New Iberia	KNIR-FM	99.1
New Orleans	WBEH	89.3
	WDSU-FM	93.3
	WJMR-FM	97.1
	WRNO	99.5
	WWOM	98.5
	WWMT	95.7
Opelousas	KSLO-FM	107.1
Ruston	KRUS-FM	97.3
Shreveport	KRMD-FM	101.1
	KRCL-FM	96.5
	KEEL-FM	93.7
	KWKH-FM	94.5
Thibodaux	KTIB-FM	106.3
Ville Platte	KVPI-FM	93.5
W. Monroe	KVEA	98.3
Winfield	KVLF-FM	92.3
Winnsboro	KCRF-FM	95.9

MAINE

Augusta	WFAU-FM	101.3
Bangor	WABI-FM	97.1
	WMEH-FM	90.9
Brunswick	WBOR	91.1
Caribou	WCME-FM	98.9
Ellsworth	WFST-FM	97.7
Lewiston	WDEA-FM	95.7
	WCOU-FM	93.9
	WRJR	91.5
Orono	WMEB-FM	91.9
Portland	WLOB-FM	97.9
	WPOR-FM	101.9
	WGAN-FM	102.9
Rockland	WRKD-FM	93.5
Waterville	WTVL-FM	98.3

MARYLAND

Annapolis	WNAV-FM	99.1
	WXTC	107.9
	WAQE-FM	101.9
Baltimore	WBJC	91.5
	WCAO-FM	102.7
	WFMM-FM	93.1
	WRBS	95.1
	WBAL-FM	97.9
	WTHF-FM	104.3
	WMAR-FM	106.5
	WSID-FM	92.3
	WTOW-FM	101.9
Bethesda	WJMD	94.7
	WHFS	102.3
Bradbury Heights	WPGC	95.5
Cambridge	WCEN-FM	106.3
Catonsville	WBMD-FM	105.7
Cumberland	WCUM-FM	102.9
	WKGO	106.1
Frederick	WFMD-FM	99.9
Frostburg	WFRB-FM	105.3
Glen Burnie	WISZ-FM	95.9
Hagerstown	WJEF-FM	104.7
	WARK-FM	106.9
Halfway	WHAG-FM	96.7

Location	C.L.	MHz
Havre de Grace	WASA-FM	103.7
Oakland	WBUZ	95.5
	WMSG-FM	92.1
Salisbury	WBQC-FM	104.7
	WICO-FM	94.3
Tacoma Park	WGTS-FM	91.9
Waldorf	WSMD-FM	104.1
Westminster	WTRR-FM	100.7

MASSACHUSETTS

Amherst	WAMF	88.1
	WFCR	88.5
	WFUA	91.1
Andover	WBUR	90.9
Boston	WBZN	104.1
	WBZ-FM	106.7
	WCOP-FM	100.7
	WEEL-FM	103.3
	WERS	88.9
	WHDH-FM	84.5
	WJIB	96.9
	WROR	98.5
Brockton	WBET-FM	97.7
Brookline	WBOS-FM	92.9
Cambridge	WGBH-FM	89.7
	WHRB-FM	95.3
	WTBS	88.1
Fitchburg	WTSP	104.1
Frammingham	WKOX-FM	105.7
Gloucester	WCA-FM	104.9
Greenfield	WHAI-FM	98.3
Haverhill	WHAV-FM	92.5
Hyannis	WCOD-FM	106.1
Lawrence	WCCM-FM	93.7
Lowell	WLLH-FM	99.3
Lynn	WLWN-FM	101.7
Medford	WHIL-FM	107.9
New Bedford	WBSM-FM	97.3
	WNBH-FM	98.1
N. Adams	WNMB-FM	100.1
Northampton	WHMP-FM	99.3
Pittsfield	WQRB	101.5
	WBRK-FM	101.7
	WPLM-FM	99.1
	WESO-FM	100.1
	WMHC	88.5
Springfield	WHYN-FM	93.1
	WAIC	91.9
	WCRV	102.1
	WCSB	88.9
	WMAS-FM	94.7
	WRLM	93.3
	WBRS	91.7
	WCRB-FM	102.5
	WOCB-FM	94.9
	WCFM	91.3
	WHSR-FM	91.9
	WAAF	107.3
	WSRS	96.1

MICHIGAN

Adrian	WLEN	103.9
	WVAC	88.1
Alma	WFYC-FM	104.9
Alpena	WHSB	107.7
	WATZ-FM	93.5
Ann Arbor	WUOM	91.7
	WOLA-FM	102.9
	WPAG-FM	107.1
Bad Axe	WLEW-FM	92.1
Battle Creek	WKFR-FM	103.3
Bay City	WBCM-FM	96.1
	WNEM-FM	102.5
Benton Hrbr.	WHFB-FM	99.9
Big Rapids	WBRN-FM	100.9
Birmingham	WHFI	94.7
Charlottesville	WCER-FM	92.7
Cheboygan	WCBY-FM	105.1
Clare	WCRM-FM	95.3
Coldwater	WANG-FM	98.3
Dearborn	WKNR-FM	100.3
Detroit	WDET-FM	101.9
	WBFG	88.7
	WHDH	105.9
	WABX	99.5
	WDTR	90.9
	WGPM	107.5
	WJBK-FM	93.1
	WMUZ	103.5
	WGPR	97.9
	WJR-FM	96.3
	WDMC-FM	104.3
	WQRS-FM	105.1
	WRMK-FM	98.7
	WWJ-FM	97.1
	WWWV	106.7
	WXYZ-FM	101.1
	WCAR-FM	92.3
	WKAR-FM	90.5
	WITL-FM	100.7
	WSWM	99.1
	WVIC-FM	95.7
	WFBE	95.1
	WGMZ-FM	107.9
	WMRP-FM	105.5
	WFUR-FM	102.9
	WJFM	93.7
	WLAV-FM	96.9
	WYON	101.3

Location	C.L.	MHz
WOOD-FM	105.7	(s)
	WVGR	104.1
	WXTO-FM	97.9
	WZZM-FM	95.7
	WPLB-FM	107.3
	WMLP-FM	93.5
	WBCH-FM	100.1
	WHPR	88.1
	WJBL-FM	94.5
	WHTC-FM	96.1
	WGGT-FM	91.1
	WJGS	98.5
	WIAA	88.3
	WBBC	94.1
	WKHM-FM	106.1
	WMIK	102.1
	WSEO-FM	106.5
	WJIM-FM	97.5
	WILS-FM	101.7
	WTHM-FM	103.1
	WNMR	90.1
	WDMJ-FM	95.7
	WALM-FM	96.7
	WQIC-FM	99.7
	WVMO	98.9
	WBRB-FM	102.7
	WCMU	90.1
	WCEN-FM	94.5
	WFFM	106.9
	WNIL-FM	95.3
	WLDN	95.5
	WOAP-FM	103.9
	WJML	98.9
	WMBN-FM	96.7
	WHLS-FM	107.1
	WOAK	89.3
	WOMC	104.3
	WSAM-FM	98.1
	WSBM	106.3
	WWSW	107.1
	WRBJ-FM	92.1
	WSJM-FM	107.1
	WSJG-FM	97.7
	WSHJ	88.3
	WSAE	105.5
	WSTR-FM	103.1
	WDRF-FM	101.9
	WCCW-FM	92.1
	WTCM-FM	103.5
	WTSD	88.1
	WPHS	91.5
	WEMU	88.1

MINNESOTA

Alexandria	KXRA-FM	92.7
Austin	KAUS-FM	99.9
Anoka	KTWN	107.9
Blue Earth	KBVEW-FM	100.9
Brainerd	KLIZ-FM	92.1
Breckenridge	KKWB	101.7
Collegeville	KSJR-FM	90.1
Duluth	WDIO-FM	94.9
Faribault	KDHL-FM	95.9
Fergus Falls	KBRF-FM	103.3
Fosston	KEHG-FM	107.1
Golden Valley	KQRS-FM	92.5
Hibbing	WMM-FM	106.3
Hutchinson	KDUZ-FM	107.1
Litchfield	KLFD-FM	95.3
Mankato	KMSO	90.5
	KEYC-FM	99.1
	KYSM-FM	103.5
Marshall	KMHL-FM	100.1
Minneapolis-St. Paul	KTIS-FM	98.5
	WLOL-FM	99.5
	KNOF	95.3
	KTGR-FM	97.1
	WPBC-FM	101.3
	WAYL	93.7
	WCTS-FM	100.3
	KVOX-FM	99.9
	KCCM-FM	91.1
	KQWB-FM	98.7
	KSNJ-FM	91.1
	KNJL-FM	93.1
	WCAL-FM	89.3
	KRFO-FM	104.9
	WPRM-FM	103.7
	KKLP	98.7
	KCUE-FM	105.5
	WPBC-FM	101.3
	KROC-FM	106.9
	KNCV	101.7
	KN	

Location	C.L.	MHz	Location	C.L.	MHz	Location	C.L.	MHz	Location	C.L.	MHz
Columbia	WFFF-FM	96.7	Hastings	KICS-FM	93.5	NEW YORK			Smithtown	WGSM	94.3
Columbus	WMBC-FM	103.1	Kearney	KOVF-FM	91.3	Albany	WAMC	90.3	South Bristol	WMIW	95.1
Corinth	WKOU-FM	94.3	Kearney-Holdrege	KRNY-FM	98.9	Auburn	WOKC	106.5	Springville	WSPB	88.1
Forest	WQST	92.5	Lexington	KRUN-FM	93.1	Babylon	WHRL	103.1	Syracuse	WAEK	88.1
Greenville	WGVM-FM	100.7	Lincoln	KFMQ	95.3	Binghamton	WROW-FM	95.5		WDDS-FM	93.1
Greenwood	WSWG	99.1		KLIN-FM	107.3		WMBD-FM	106.9		WONO	107.9
Gulfport	WROA-FM	107.1		KUCV	91.3		WTFM	103.5	Troy	WSYR-FM	94.5
Hattiesburg	WHSY-FM	104.5		KWHG	102.7		WBAB-FM	102.3		WFLY	92.3
Houston	WFDL-FM	103.7		KFAB-FM	93.9		WNBK-FM	93.7	Utica	WRUN-FM	105.7
Indianola	WNLA-FM	103.5		KGBI-FM	100.7		WHRW	90.5		WIBQ-FM	94.9
Jackson	WJDX-FM	102.9		KIOS-FM	90.9		WKOP-FM	99.1		WOUR	96.9
	WJMI	99.7		KOIL-FM	96.1	Baldwinsville	WSEN-FM	92.1	Wethersfield		
	WLSL-FM	96.3		KOZN	94.1	Brooklyn	WNYE	91.5	Township	WBIV	107.7
	WUHO	94.7		WOW-FM	92.3	Brookville	WCWP	88.1	White Plains	WFAS-FM	103.9
	WVW	94.7		KNEW-FM	94.1	Buffalo	WBEN-FM	106.5			
	WVW	94.7		KAWL-FM	104.9		WADV	106.5			
	WVW	94.7					WDCX	99.5	NORTH CAROLINA		
	WVW	94.7					WBFO	88.7	Ahoskie	WRCS-FM	99.3
	WVW	94.7					WBUF	93.3	Albemarle	WABZ-FM	100.9
	WVW	94.7					WBRW	94.5	Asheboro	WGWR-FM	92.3
	WVW	94.7					WGR-FM	96.9	Asheville	WLOS-FM	104.3
	WVW	94.7					WWOL-FM	104.1	Bridgeton	WVWB-FM	97.7
	WVW	94.7					WWSL-FM	103.3	Black Mountain	WMIT	106.9
	WVW	94.7					WBNY-FM	96.1	Burgaw	WPGF-FM	99.9
	WVW	94.7					WLSU	96.7	Burlington-Graham		
	WVW	94.7					WCSQ	89.3		WBAG-FM	93.9
	WVW	94.7					WJIV	101.9		WBBB-FM	101.1
	WVW	94.7					WHCL-FM	88.7	Chapel Hill	WUNC	91.5
	WVW	94.7					WHCL-FM	88.7	Charlotte	WBT-FM	107.9
	WVW	94.7					WVLC-FM	106.1		WRNA	95.1
	WVW	94.7					WKRT-FM	99.9		WSOC-FM	103.7
	WVW	94.7					WBLK-FM	95.7		WYFM	104.7
	WVW	94.7					WVIV	105.1	Clingman's Pk.	WRZZ-FM	106.9
	WVW	94.7					WFLR-FM	95.9	Concord	WGO-FM	97.9
	WVW	94.7					WECW	88.1	Durham	WDNC-FM	105.1
	WVW	94.7					WEHH-FM	94.3		WRSR-FM	107.1
	WVW	94.7					WENY-FM	92.7		WIFM-FM	100.9
	WVW	94.7					WENE-FM	105.5	Elkin	WQSM	98.1
	WVW	94.7					WSHS	90.3	Fayetteville	WBBQ-FM	93.3
	WVW	94.7					WGSU	89.3	Forest City	WAZL-FM	105.9
	WVW	94.7					WWSU-FM	95.9	Franklin	WFSC-FM	96.7
	WVW	94.7					WXQL	107.1	Gastonia	WGNC-FM	101.9
	WVW	94.7					WIGS-FM	92.7	Goldsboro	WEQR	96.9
	WVW	94.7					WHLI-FM	98.3	Greensboro	WMEB	88.7
	WVW	94.7					WVHC	88.7		WQMG-FM	97.1
	WVW	94.7					WHOF-FM	103.3		WUAG	89.9
	WVW	94.7					WHUC-FM	93.5	Greenville	WHIT	107.7
	WVW	94.7					WHCU-FM	97.3	Grifton	WITN-FM	93.3
	WVW	94.7					WICB	91.7	Henderson	WHNC-FM	92.5
	WVW	94.7					WEIV	103.7		WHKP-FM	102.5
	WVW	94.7					WVBR-FM	93.5	Hendersonville	WHKP-FM	102.5
	WVW	94.7					WJTN-FM	93.3	Hickory	WHKY-FM	102.9
	WVW	94.7					WKSU-FM	101.7		WXRC	95.7
	WVW	94.7					WJST-FM	101.7	High Point	WHPE-FM	95.5
	WVW	94.7					WYSL-FM	103.3		WMFJ-FM	94.5
	WVW	94.7					WYHQ-FM	91.3		WNOS-FM	100.3
	WVW	94.7					WNDN	97.7	Jacksonville	WRCM	92.1
	WVW	94.7					WSHR	89.7		WXQB-FM	105.5
	WVW	94.7					WTFM	103.5	Kannapolis	WRKB-FM	99.7
	WVW	94.7					WVOS-FM	95.9	Kinston	WRNS	95.1
	WVW	94.7					WVCR-FM	89.1	Laurinburg	WSTS	96.5
	WVW	94.7					WALL-FM	92.7	Leaksville	WAFB	94.5
	WVW	94.7					WRNW	107.1	Lexington	WBUY-FM	94.3
	WVW	94.7					WVIP-FM	106.3	Lumberton	WTSB-FM	85.7
	WVW	94.7					WFMN	103.1		WJSK	102.3
	WVW	94.7					WVOX-FM	93.5	North Wilkesboro	WKBC-FM	97.3
	WVW	94.7					WABC-FM	95.5	Raleigh	WKIX-FM	96.1
	WVW	94.7					WBAI	99.5		WKNC-FM	88.1
	WVW	94.7					WCBS-FM	101.1		WPTF-FM	94.7
	WVW	94.7					WEVO-FM	97.9		WRAL-FM	101.5
	WVW	94.7					WFUV	90.7		WSHA	88.9
	WVW	94.7					WHOM-FM	92.8	Reidsville	WMMO-FM	102.1
	WVW	94.7					WKCR-FM	89.9	Rocky Mount	WEED-FM	92.1
	WVW	94.7					WLIB-FM	107.5		WFMA	100.7
	WVW	94.7					WNGN	104.3	Rochester	WFOF	92.5
	WVW	94.7					WNEW-FM	97.1	Roxboro	WRXO-FM	96.7
	WVW	94.7					WNBC-FM	97.1	Salisbury	WSTP-FM	106.5
	WVW	94.7					WNYC-FM	93.9	Sanford	WWGP-FM	105.5
	WVW	94.7					WNYE	91.5	Shelby	WQHS-FM	96.1
	WVW	94.7					WOR-FM	98.7	Statesville	WFMX	103.7
	WVW	94.7					WPIX-FM	101.9	Tabor City	WTAB-FM	104.9
	WVW	94.7					WQXR-FM	96.3	Tarboro	WGPS-FM	104.3
	WVW	94.7					WRVW	106.7	Thomasville	WTNC-FM	98.3
	WVW	94.7					WHLO-FM	98.5	Washington	WITN-FM	93.3
	WVW	94.7					WCHN-FM	93.9	Williamston	WIAM	103.7
	WVW	94.7					WHDL-FM	95.7	Wilmington	WPRV	95.9
	WVW	94.7					WOSE	104.9		WFGT	102.7
	WVW	94.7					WVVO	89.9	Wilson	WHSF-FM	97.3
	WVW	94.7					WEAF-FM	99.9	Winston-Salem	WAAA-FM	107.5
	WVW	94.7					WALK-FM	97.5(s)		WFDD-FM	88.5
	WVW	94.7					WPAC-FM	106.1		WEPL	93.1
	WVW	94.7					WLNA-FM	100.7		WJSJ-FM	104.1
	WVW	94.7					WTSC-FM	91.1			
	WVW	94.7					WPDM-FM	99.3			
	WVW	94.7					WSPK	104.7	NORTH DAKOTA		
	WVW	94.7					WEOK-FM	101.5	Bismarck	KFYR-FM	92.9
	WVW	94.7					WHRF-FM	103.9		KBMR-FM	94.5
	WVW	94.7					WHFM	98.9	Devils Lake	KOLR-FM	96.7
	WVW	94.7					WFBF	92.5	Fargo	KFNW-FM	97.9
	WVW	94.7					WCMF	96.5		WDAY-FM	93.7
	WVW	94.7					WIRQ	90.9		KDSU	91.9
	WVW	94.7					WNYR-FM	101.3	Grand Forks	KVBC	94.7
	WVW	94.7					WROC-FM	97.9	Jamestown	KJSM	93.3
	WVW	94.7					WRUR-FM	90.1		KKND	95.5
	WVW	94.7					WVOR	100.5	Minot	KCJB-FM	97.1
	WVW	94.7					WLVG-GM	92.1			
	WVW	94.7					WKAJ-FM	102.3	OHIO		
	WVW	94.7					WGFM	99.5	Akron	WAKR-FM	97.5
	WVW	94.7					WSEF-FM	99.3		WAPS	89.1
	WVW	94.7								WAUP	88.1

Location	C.L.	MHz	Location	C.L.	MHz	Location	C.L.	MHz	Location	C.L.	MHz
	CFQR-FM	92.5	Quebec, Que.	CHRC-FM	98.1	Smith Falls, Ont.	CJET-FM	101.1	Trail, B.C.	CJAT-FM	106.7
	CJFM-FM	95.9	Red Deer, Alta.	CKRD-FM	98.9	St. Catharines, Ont.			Truro, N.S.	CKCL-FM	100.9
	CJMS-FM	94.3	Regina, Sask.	CFMQ-FM	92.1		CHSC-FM	105.7	Vancouver, B.C.	CBU-FM	105.7
	CKGM-FM	97.7	Richibucto, N.B.	CBHM-FM	98.5	Sudbury, Ont.	CKTB-FM	97.7		CBUF-FM	97.7
Mount Timothy, B.C.	CFFM-FM-5	99.7	Rimouski, Que.	CJBR-FM	101.5	Sudbury, Ont.	CKSO-FM	92.7		CHQM-FM	103.5
North Bay, Ont.	CKAT-FM	93.7	Saint John, N.B.	CFBC-FM	98.9	Sydney, N.S.	CJCB-FM	94.9		CKLG-FM	99.3
Oshawa, Ont.	CKQS-FM	94.9	Saskatoon, Sask.	CFMC-FM	103.9	Tillsonburg, Ont.	CKOT-FM	100.5	Verdun, Que.	CKVL-FM	96.9
Ottawa, Ont.	CEO-FM	103.9		CJUS-FM	89.7	Timmins, Ont.	CKGB-FM	94.3	Victoria, B.C.	CFMS-FM	98.5
	CFMO-FM	98.9	Sault Ste. Marie, Ont.			Toronto, Ont.	CBL-FM	94.1	Windsor, Ont.	CKLW-FM	93.9
Penticton, B.C.	CKOK-FM	97.1		CJIC-FM	100.5		CHFI-FM	98.1		CKWV-FM	88.7
Peterborough, Ont.	CHEX-FM	101.5		CKCY-FM	104.3		CHIN-FM	100.7	Winnipeg, Man.	CBWF-FM	98.3
Port Arthur, Ont.	CKPR-FM	94.3	Savona, B.C.	CFFM-FM-1	101.9		CHUM-FM	104.5		CFRW-FM	84.3
			Sherbrooke, Que.	CHLT-FM	102.7		CJRT-FM	91.1		CJOB-FM	97.5
							CKFM-FM	99.9		CKY-FM	92.1

A THANK YOU NOTE FROM THE EDITORS

Thank you! The Editors of SCIENCE AND ELECTRONICS would like to thank all readers who offered information on station changes, additions and deletions during the past few months. Though many of the letters overlapped, each aided us considerably in the task of making *White's Radio Log* as current as possible at press time. If we left your name out, please forgive us!

John R. Anderson, Burlington, Iowa

David Bartlett, E. Hartford, Conn.

Edward R. Cotten, USS Boxer
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Carl Rosell, Kearny, N. J.

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Thomas Sherman, State College, Pa.

Joe Gronk, New York, N. Y.

Atwood Shupp, Easton, Pa.

John Simpson, Crawfordsville, Ind.

Sheldon Swartz, Sharon, Mass.

R. C. Wheeler, Walla Walla, Wash.

White's World-Wide Shortwave Stations

Continuing with our rundown of some of the bare basics of how to succeed in SWLing without really trying, let's take a brisk look at methods of sending signal strength reports. Mind you, a report of signal strength isn't 100% of a reception report (we discussed the other things in the previous edition), but it's the one thing which really makes the whole thing useful to the broadcaster who hears from you. He makes use of your report by seeing how his signal is getting into your area and can then decide on his future schedules and frequencies.

Saying in your report, "Your signal was readable," or even "strong" is simply not enough to be of any use. There are too many other

factors. In fact, at one time broadcasters demanded that listeners use the old "RST" system of reporting. This indicated Strength, Readability, Tone. Eventually this system was found to be insufficient for many broadcasters faced with today's many spectrum problems. A new system was devised which has become the standard for reception reports; it's a snap to use, it tells the whole story, and we suggest that you incorporate it into all of your reception reports. It's known as the SINPO system and it tells about *Signal strength*, *Interference*, *Noise*, *Propagation disturbances* (fading), and *Overall merit*. Each signal is evaluated for these individual characteristics and then given a number rating for each of them. The numbers range

QSA		QRM		QRN		QSB		QRK	
Signal strength		Interference		atmospheric Noise		Propagation disturbance		Overall merit	
5	excellent	5	NIL	5	NIL	5	NIL	5	excellent
4	good	4	slight	4	slight	4	slight	4	good
3	fair	3	moderate	3	moderate	3	moderate	3	fair
2	poor	2	severe	2	severe	2	severe	2	poor
1	barely audible	1	extreme	1	extreme	1	extreme	1	unusable

WORLD-WIDE SHORTWAVE STATIONS

from 1 to 5, with 5 being the best possible rating and 1 being the lowest. You would then send out your reception reports with signal ratings which might read SINPO 55555 (which is the best possible rating and would only be awarded to a station whose signal was peeling the paint off your walls). A report of SINPO 34332 would mean that the strength was only fair to begin with, but because of moderate interference and static, combined with moderate fading, the overall merit of the signal was poor.

You should be able to send out top notch reports with this system on the very first few

kHz	Call	Name	Location
2360	TGBA	R. Maya	Huehuetenango, Guat.
2430	YVPM	E. Radiofonicas	Caracas, Venez.
2470	YVNI	R. Carora	Carora, Venez.
2510	HLK50	V. Free Korea	Seoul, S. Korea

90-Meter Band—3200 to 3400 kHz

3204	—	Nigerian BC	Ibadan, Nigeria
3230	VRH8	Fiji BC	Suva, Fiji Is.
3241	YDR3	RRI	Ambon, Indonesia
3255	ELBC	Liberian BC	Monrovia, Liberia
3265	HCMZ6	V. Dorado	Dorado, Ecuador
3284	VRM9	Fiji BC	Suva, Fiji Is.
3295	YDY2	RRI	Samarinda, Indonesia
3310	—	R. Clube de Mozambique	Quelimane, Mozamb.
3325	ZYJ21	R. Borborema	Campina Grande, Brazil
3335	ZYR59	V. do Serato	Pres. Prudente, Brazil
3346	—	Lusaka Calling	Lusaka, Zambia
3360	—	R. Peking	Peking, China
3375	VUD	All India R.	Gauhati, India
3380	—	R. Mali	Bamako, Mali
3390	—	R. Peking	Peking, China
3448	—	RRI	Purwokerto, Indonesia
3815	HCPZ1	R. Rumichaca	Tulcan, Ecuador
3910	CR4AC	R. Barlavento	Cape Verde Is.
3945	JOZ4	Nihon Tampa Hoso	Tokyo, Japan
3970	—	R. Buea	Buea, Cameroon
3980	—	Nigerian BC	Enugu, Nigeria
3995	—	RAI	Rome, Italy
4040	—	R. Erevan	Erevan, USSR
4265	DAM	(time signals)	Elmshorn, Germany
4500	VNG	Austral. BC	Lyndhurst, Australia
4665	--	R. Baku	Baku, USSR

60-Meter Band—4750 to 5060 kHz

4756	VRH4	R. Fiji	Suva, Fiji Is.
4762	OCX4W	R. Inca	Lima, Peru
4770	YVOE	R. Bolivar	Bolivar, Venez.
4784	TIRHB2	R. Popular	San Jose, C.R.
4790	OAX5X	R. Nazca	Lima, Peru
4800	VUD	All India R.	Hyderabad, India
4810	—	VTVN	DaNang, S. Vietnam
4820	HCRT6	R. Paz y Bien	Ambato, Ecuador
4825	OAZ6Z	R. Moquegua	Moquegua, Peru
4840	—	R. Botswana	Gaberones, Botswana
4850	V3USE	Mauritius BC	Forest Side, Maurit.
4855	OCX7E	R. Pt. Maldonado	Pt. Maldonado, Peru
4870	HCGM7	R. Rio Amazonas	Macuma, Ecuador
4880	HCWE1	R. Nac. Espejo	Quito, Ecuador
4890	YVKB	R. Venezuela	Caracas, Venezuela
4895	ZYN22	R. Cultura	Bahia, Brazil
4907	—	R. Cambodia	Phnom-Penh, Cambodia
4915	—	R. Accra	Accra, Ghana
4920	YVKR	R. Caracas	Caracas, Venez.
4934	OAX5O	R. Concejo Prov.	Abancay, Peru
4940	OAZ4R	R. San Juan	San Juan, Peru
4950	HCAV3	R. Luz y Vida	Quito, Ecuador
4955	OAX5S	R. Amauta	Huanta, Peru
4967	—	R. Kuwait	Kuwait
4975	OCX4H	R. del Pacifico	Lima, Peru
4985	CP75	R. Cruz del Sur	La Paz, Bolivia
4995	ZYX2	R. Brasil Central	Goiania, Brazil
5000	WWV	(time signals)	Boulder, Colo.
5095	OAX2S	R. Jaen	Jaen, Peru

tries. We are furnishing you with a complete guide to using the SINPO system—good DX!

This Issue's Shortwave Contributors

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kHz	Call	Name	Location
5020	—	R. Niger	Niamey, Niger
5025	ZYX30	R. Aquidauana	Aquidauana, Brazil
5033	CR6RW	R. C. de Cabinda	Cabinda, Angola
5040	YVQH	R. Maturin	Maturin, Venez.
5055	CP87	R. San Rafael	San Rafael, Bolivia
5070	TGMS	T. Nacional	Mazatenango, Guat.
5170	—	—	Fukien, China
5500	—	R. Peking	Peking, China
5850	—	R. Peking	Peking, China
5920	—	R. Tashkent	Tashkent, USSR

49-Meter Band—5950 to 6200 kHz

5954	TIO	R. Casino	San Jose, C.R.
5955	CP60	R. Pio Decimo Segundo	La Paz, Bolivia
5960	BEP23	Police BC	Taipei, Taiwan
5965	HCGE5	R. Mundial	Quito, Ecuador
5975	CP44	R. Nacional	La Paz, Bolivia
5990	BED30	BC of China	Taipei, Taiwan
5995	—	R. Hanoi	Hanoi, N. Vietnam
5993	—	R. Mdandaka	Mdandaka, Congo
6000	OEI20	R. Osterreich	Vienna, Austria
6005	CFCW	—	Montreal, Que.
6010	YSS	R. Nacional	San Salvador, El Salvador
6020	4VEB	R. Caraibes	Pt.-au-Prince, Haiti
6025	CSA5Z	R. Nacional	Lisbon, Portugal
6030	CFVP	—	Calgary, Alta.
6040	—	V. America	Munich, W. Germany
6045	OCY4H	R. Santa Rosa	Lima, Peru
6055	—	R. Kuwait	Kuwait
6060	LRA3I	R. Nacional	Buenos Aires, Argentina
6070	—	R. Sofia	Sofia, Bulgaria
6075	OAX4S	R. Onda Popular	Lima, Peru
6075	CXA3	R. Ariel	Montevideo, Uruguay
6080	4VHW	R. Haiti	Pt.-au-Prince, Haiti
6090	ZAA	R. Tirana	Tirana, Albania
6095	ZYB7	R. de Sao Paulo	Sao Paulo, Brazil
6105	—	R. Prague	Prague, Czech.
6110	HRXW	R. Comayaguela	Tegucigalpa, Honduras
6115	—	R. C. de Mozambique	Lourenco Marques, Mozamb.
6120	DZF4	Call of Orient	Manila, Phil.
6125	PRG9	R. Nac de Sao Paulo	Sao Paulo, Brazil
6130	CHNX	—	Halifax, N.S.
6135	OCX4M	R. Pasco	Pasco, Peru
6145	HRXE	R. Mil Treinta	Juticalpa, Hond.
6155	ZAA	R. Tirana	Tirana, Albania
6165	—	Swiss BC	Berne, Switz.
6170	8FK35	RRI	Padang, Indonesia
6175	—	Nigerian BC	Kaduna, Nigeria
6185	LLI	R. Norway	Oslo, Norway
6190	VUD	All India R.	Delhi, India
6198	OAX1B	R. Sudamericana	Lima, Peru
6225	—	R. Peking	Peking, China
6325	—	R. Peking	Peking, China
6430	—	R. Peking	Peking, China
6620	—	R. Peking	Peking, China
6850	—	Pathfinders Station	Warsaw, Poland
7055	—	R. Peking	Peking, China

41-Meter Band—7100 to 7300 kHz

7100	—	R. Budapest	Budapest, Hungary
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kHz	Call	Name	Location
7105	—	R. Nepal	Kathmandu, Nepal
7115	—	R. Peking	Peking, China
7125	—	V. de Revolucion	Conakry, Guinea
7135	—	R. Monte Carlo	Monte Carlo, Monaco
7145	—	R. Malaysia	Sarawak
7155	HVJ	Vatican Radio	Vatican City
7160	—	Austr. BC	Darwin, Australia
7170	—	R. Algiers	Algiers, Algeria
7180	—	R. Liberty	Spain
7190	—	R. Colombo	Columbo, Ceylon
7200	ZAA	R. Tirana	Tirana, Albania
7210	PCJ	R. Nederland	Hilversum, Netherlands
7220	—	R. Liberty	Munich, Germany
7230	CR6RM	R. Cl. de Mocamedes	Mocamedes, Angola
7235	—	RAI	Rome, Italy
7240	—	R. Peking	Peking, China
7250	—	R. Singapura	Singapore
7260	—	Gorovit Minsk	Minsk, USSR
7270	—	R. RSA	Johannesburg, S. Afr.
7280	—	BBC	London, England
7290	DMQ7	Deutsche Welle	Cologne, W. Germany
7295	—	R. Athina	Athens, Greece
7305	—	R. Novosibirsk	Novosibirsk, USSR
7335	CHU	(time signals)	Ottawa, Ont.
7440	—	R. Peking	Peking, China
7620	—	R. Peking	Peking, China
7947	—	R. Peking	Peking, China
8400	—	R. Peking	Peking, China
8638	DAM	(time signals)	Elmshorn, Germany
9277	NPQ	(time signals)	San Francisco, Calif.
9457	—	R. Peking	Peking, China

31-Meter Band—9500 to 9775 kHz

9500	—	R. Berlin Int'l	Berlin, E. Germany
9510	—	BBC	London, England
9515	—	R. Malaysia	Malaysia
9525	—	BBC	London, England
9530	—	V. America	Woolferton, Engl.
9535	—	Swiss BC	Berne, Switz.
9545	DMQ9	Deutsche Welle	Cologne, W. Germany
9550	—	R. Warsaw	Warsaw, Poland
9555	—	BBC	London, England
9565	—	R. Moscow	Moscow, USSR
9570	—	BBC	Tebrau, Malaysia
9575	VUB	All India R.	Bombay, India
9585	—	R-TV Francaise	Paris, France
9590	—	Swiss BC	Berne, Switz.
9595	—	Trans World R.	Monte Carlo, Monaco
9600	XEYU	Universidad Nac.	Mexico City, Mex.
9610	—	R. Addis Ababa	Addis Ababa, Ethiopia
9615	TIRICA	V. de la Victor	San Jose, C.R.
9620	ZYR97	R. Nova de Julio	Sao Paulo, Brazil
9630	—	R. Nacional	Lisbon, Portugal
9640	DMQ9	Deutsche Welle	Cologne, W. Germany
9645	TIFC	Faro del Caribe	San Jose, C.R.
9655	DMQ9	Deutsche Welle	Cologne, W. Germany
9660	BED42	BC of China	Taipei, Taiwan
9675	—	R. Japan	Tokyo, Japan
9685	—	R. Erevan	Erevan, USSR
9690	—	R. Peking	Peking, China
9700	—	R. Sofia	Sofia, Bulgaria
9710	—	RAI	Rome, Italy
9720	—	Swiss BC	Berne, Switz.
9725	—	BBC	Tebrau, Malaysia
9735	—	V. America	Dixon, Calif.
9745	—	R. Mali	Bamako, Mali
9752	—	R. Suriname	Surinam
9760	—	R. Hanoi	Hanoi, N. Vietnam
9770	OEI47	R. Osterreich	Vienna, Austria
9800	—	R. Peking	Peking, China
9905	—	Gorovit Khabarovsk	Khabarovsk, USSR
10000	WWYH	(time signals)	Honolulu, Hawaii
10530	—	Gorovit Alma Ata	Alma Ata, USSR
11505	—	R. Peking	Peking, China
11680	—	BBC	London, England

25-Meter Band—11700 to 11975 kHz

11700	TGQB	R. Quezaltenango	Quezaltenango, Guat.
11710	—	R. Brazzaville	Brazzaville, Congo
11720	—	BBC	Limassol, Cyprus
11730	ETLF	R. V. Gospel	Addis Ababa, Eth.
11735	CXA7	R. Oriental	Montevideo, Uruguay
11745	—	R. Berlin Int'l	Berlin, E. Germany
11755	VUD	All India R.	Delhi, India
11760	—	R. Habana	Havana, Cuba
11775	—	Swiss BC	Berne, Switzerland
11785	DMQ11	Deutsche Welle	Cologne, W. Germany
11790	WNYW	R. New York W/W	New York, N.Y.
11800	PCJ	R. Nederland	Hilversum, Netherlands
11805	—	V. America	Manila, Phil.
11815	—	R. Free Europe	Lisbon, Portugal

kHz	Call	Name	Location
11820	—	R. Abidjan	Abidjan, Ivory Coast
11830	—	V. America	Dixon, Calif.
11845	VUD	All India R.	Delhi, India
11855	ETLF	R. V. Gospel	Addis Ababa, Eth.
11860	—	BBC	Ascension I.
11866	—	R. Lubumbashi	Lubumbashi, Congo
11875	—	R. Japan	Tokyo, Japan
11880	VLH11	R. Australia	Melbourne, Australia
11890	DZE9	Call of Orient	Manila, Phil.
11900	CXA10	SODRE	Montevideo, Uruguay
11910	VUD	All India R.	Delhi, India
11915	HCJB	V. de los Andes	Quito, Ecuador
11925	—	BBC	London, England
11935	—	R. Nacional	Lisbon, Portugal
11945	DMQ11	Deutsche Welle	Cologne, W. Germany
11955	—	R. Warsaw	Warsaw, Poland
11965	—	R. Japan	Tokyo, Japan
11975	ELWA	R. ELWA	Monrovia, Liberia
12005	—	R. Peking	Peking, China
12060	—	R. Peking	Peking, China
13555	GIC33	(time signals)	Hailsham, England
15000	LOL	(time signals)	Buenos Aires, Arg.
15095	—	R. Peking	Peking, China

19-Meter Band—15100 to 15450 kHz

15115	—	Australian BC	Darwin, Austr.
15130	ETLF	R. V. Gospel	Addis Ababa, Eth.
15135	PRB23	R. Panamericana	Sao Paulo, Brazil
15150	—	R. Kuwait	Kuwait
15160	—	R. Budapest	Budapest, Hungary
15165	ZYN7	Cera R. Clube	Fortaleza, Brazil
15180	—	Gorovit Sverdlovsk	Sverdlovsk, USSR
15195	—	V. America	Tangiers, Morocco
15210	—	V. America	Manila, Phil.
15225	—	R. Bucharest	Bucharest, Rumania
15236	—	R. Peking	Peking, China
15250	—	R. Bucharest	Bucharest, Rumania
15260	—	BBC	London, England
15270	CXA18	SODRE	Montevideo, Uruguay
15285	—	V. America	Colombo, Ceylon
15300	DZH9	Call of Orient	Manila, Phil.
15310	—	V. Revolucion	Conakry, Guinea
15320	—	R. Australia	Melbourne, Australia
15335	VUM	All India R.	Madras, India
15345	BED49	BC of China	Taipei, Taiwan
15360	—	V. America	Manrovia, Liberia
15370	ZYC9	R. Tupi	Rio de Janeiro, Brazil
15385	—	Gorovit Gorki	Gorki, USSR
15400	—	V. America	Greenville, N.C.
15410	—	V. America	Greenville, N.C.
15425	ETLF	R. V. Gospel	Addis Ababa, Eth.
15435	DMQ15	Deutsche Welle	Cologne, W. Germany
15445	—	V. America	Monrovia, Liberia
15520	—	R. Pyongyang	Pyongyang, N. Korea
17194	PPR	(time signals)	Rio de Janeiro, Brazil

16-Meter Band—17700 to 17900 kHz

17705	VUD	All India R.	Delhi, India
17720	—	R. Tunis	Tunis, Tunisia
17745	—	BBC	London, England
17755	—	V. America	Manila, Phil.
17770	—	RAI	Rome, Italy
17775	—	V. America	Monrovia, Liberia
17775	—	R. Moscow	Moscow, USSR
17795	—	R. Budapest	Budapest, Hungary
17805	—	R. Free Europe	Lisbon, Portugal
17805	—	R. RSA	Johannesburg, U. S. Africa
17815	—	RAI	Rome, Italy
17820	—	V. America relay	Poro, Phil.
17845	—	R. Prague	Prague, Czech.
17855	HCJB	V. Andes	Quito, Ecuador

13-Meter Band—21450 to 21750 kHz

21450	—	R. Prague	Prague, Czech.
21455	—	V. Nigeria	Lagos, Nigeria
21470	—	BBC	London, England
21580	—	R-TV Francaise	Paris, France
—	—	V. Nigeria	Lagos, Nigeria
21500	—	R. Brazzaville	Brazzaville, Congo
21535	—	R. RSA	Johannesburg, S. Afr.
21540	HER	Swiss BC	Berne, Switz.
25610	—	R. Nederland	Hilversum, Neth.
25650	—	BBC	London, England
25730	LLL	R. Norway	Oslo, Norway
25790	—	R. RSA	Johannesburg, S. Afr.
25900	LLA	R. Norway	Oslo, Norway

White's Emergency Radio Station Listings for the Boston Area

□ RADIO-TV EXPERIMENTER and SCIENCE AND ELECTRONICS furnishes this exclusive listing of emergency radio stations as an aid to our many readers now engaged in the fascinating and rapidly growing hobby of monitoring emergency radio communications. We have and will be publishing similar lists devoted to different metropolitan areas in forthcoming issues so that you'll be able to accumulate a sizable array of this difficult-to-obtain data. Refer to the index on page 81 for our 1969 program.

If you desire to obtain similar lists from other areas in the United States that have not or will not be published in this magazine in 1969, then we suggest you write to Communications Research Bureau, Box 56, Commack, N. Y. 11725. They may have a list of emergency radio services that covers your locality. Include a stamped, self-addressed envelope with your request.

Station	Police	Fire
BOSTON POLICE DEPT.		
KCA860	158.97	KCF751 453.35
KCC768-84	39.02	KGR364 453.20
KCC918	39.02	KGR365 453.40
KCD937	39.02	KGR366 453.30
KCF712	39.02	

Station	Police	Fire
BOSTON FIRE DEPT.		
KCA591	33.74 153.89	154.22
KJS733-5	33.74 153.89	
KJW560	33.74 153.89	

Station	Police	Fire
MUNICIPAL DEPARTMENTS		
Abington	KBE498 155.73	KCD823 33.90
Acton	KCB875 155.01	mobiles 45.60
Amesbury		KCV354 154.07
		KCV354 154.145
Andover	KCB262 39.10	KCF313 33.66
		KCF313 154.07
		KJD876 33.66
Arlington		KCR311 154.22
Ashburnham		KCB404 33.70
		KCB404 33.82
Ashland	KCE327 155.79	KCF945 46.46
Auburn	KCB970 155.55	KBT465 33.62
		KCN817 33.62
Avon	KCI1271 155.73	KCD727 46.14
Ayer	KCF802 39.42	KAQ921 46.14
Bedford	KCF442 158.73	KBT205 33.66
		KBT205 154.34
Bellingham	KCE915 39.42	KEP595 33.54
Belmont	KAX786 155.655	KCD849 154.13
	KCA969 155.655	KCD849 154.22
	KCA969 158.97	
Berlin	mobiles 37.10	
Beverly	KCA875 45.58	KAY259 154.07
	KCA875 158.97	
Billerica	KCB490 155.13	KCF312 33.66
Blackstone	KCI228 155.79	KGT480 33.62
Bolton		KBA887 33.70
Boxford	mobiles 44.74	KCH315 154.07
Boylston	KFV420 37.10	KCF337 33.70
Braintree	KCA780 155.49	KCC352 46.14
	KCA780 158.97	
Brockton	KCB421 155.685	KCA403 154.31
	KCB421 155.73	
Brookline	KCA975 39.94	KCF364 33.78
		KCF364 154.22
		KCF366-70 33.78
Burlington	KCA953 155.13	KAX310 154.34
Cambridge		KCB290 33.94
		KCB290 154.22
		KCB290 154.355

Station	Police	Fire
Canton	KCB417 155.73	KCB746 33.50
Carlisle	KEM569 155.01	KCF311 33.66
Charlton	KCB296 155.07	KCD975 33.62
Chelmsford	KCF493 155.67	KCF310 33.66
Chelsea	KCA343 45.10	KDD985 154.22
		KDD985 154.325
Clinton	KCA896 37.10	KCH246 33.70
		KCH246 154.31
Cohasset	KCA446 155.07	KCH618 154.19
Concord	KCA685 155.01	KCD596 46.50
Deedham	KJU853 39.08	
	KCA957 155.61	
Dover	KCG758 155.31	KCA303 33.50
Dracut	mobiles 155.67	KCB745 33.66
	mobiles 155.85	KCB745 154.44
Dudley	KCC416 155.43	KCH427 33.62
Dunstable	mobiles 39.42	KCF309 33.66
		KJS918 33.66
Duxbury	KCA707 39.22	KCA351 33.90
E. Boxford	KJD278 45.14	
E. Bridgewater	KCC354 155.73	KCC350 33.90
		KBW838 153.98
		KAY985 33.62
E. Douglas		mobiles 33.50
Easton	KCF692 155.73	KCI370 155.82
Essex		KCH424 154.31
Everett	KCA634 155.595	
	KCA634 158.97	
Fitchburg	KCA852 155.61	KCB764 154.25
Foxboro	KCA855 155.37	KCF297 33.50
Frammingham	KCA458 39.52	KCC457 33.98
Franklin	KCA462 39.42	KCY582 33.50
		KCY582 33.54
Gardner	KCB401 155.73	KCA395 33.70
		KCB308 154.13
		KCD690 154.07
		KCD690 154.07
		KCF979 154.13
Georgetown	KFN667 155.01	
Gloucester	KCA632 155.55	KDV782-3 154.16
	KCA632 158.97	KDV820 154.16
		KDQ249 154.07
		KDQ249 154.16
		KJE242 same
Groton	KCA850 39.42	KAP589 46.14
Groveland	KAW496 155.01	KCF251 154.01
		KCF251 154.07
Hamilton	KDE633 158.97	
Hanover	KA7875 155.73	KCH519 33.56
		KCH519 33.90
Hanson	KCF898 155.73	KCD453 33.90
Harvard	KFI514 159.09	KCC582 33.70
		KCF977 33.70
Haverhill	KCA865 155.01	KCA434 154.01
Hingham	KCA987 155.07	KCA638 154.19
Holbrook	KCC756 155.49	KCC742 46.14
		KCF402 46.14
		KCC705 33.70
Holden	KCE221 39.42	KCE745 46.46
Holliston		KCG489 33.62
Hopedale	KJD275 39.42	KCE204 46.46
Hookinton		KCB364 33.70
Huobardsston		KCI1278 33.98
Hudson	KCA952 155.13	KCI1278 46.42
		KCB458 154.19
Hull	KCA956 155.07	KBA346 154.07
Ipswich	KCA926 45.90	
	KCA926 158.97	
Kingston	KCH720 39.22	KCB479 33.90
Lancaster	KCF779 37.10	KEM722 33.70
Lawrence	KCA382 155.37	KAR981 153.95
		KJG925 154.025
Leicester	KBC762 45.18	KCD904 33.62
		KDU288 33.62
Leominster	KAQ389 45.66	KCB360 33.70
	KCA684 45.66	KCE365 33.70
Lexington	KJE225 155.535	
	KJE225 158.97	
Littleton		KDG722 33.66
Lowell	KCA861 155.67	KCF947 33.66
		KCF947 154.01
Lunenburg	KCH343 155.76	KAX916 33.70
Lynn	KCA702 45.46	KCC886 154.415
	KCA702 158.97	
Lynnfield Ctr.	KCB224 39.10	
Malden	KCA854 156.21	KCH732 154.25
	KCA854 158.97	
Manchester	KCA850 158.73	KCX954 154.07
	KCA850 158.97	
Mansfield	KCA888 39.54	KCA328 33.50
Marblehead	KCA728 156.33	KCH550 154.07
		KCH550 154.37