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RADIO-TV EXPERIMENTER

WHITE'S RADIO LOG



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WORLD-WIDE
SHORT-WAVE LISTINGS

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65

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*65-1000
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\$14 Photoflood Remote Controller

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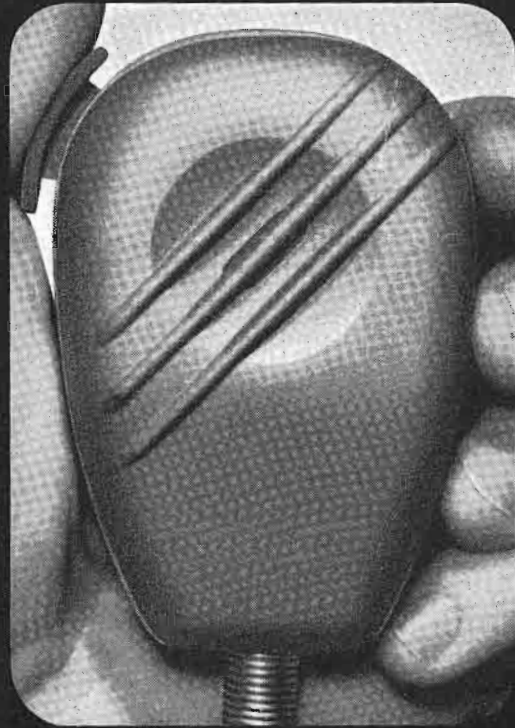
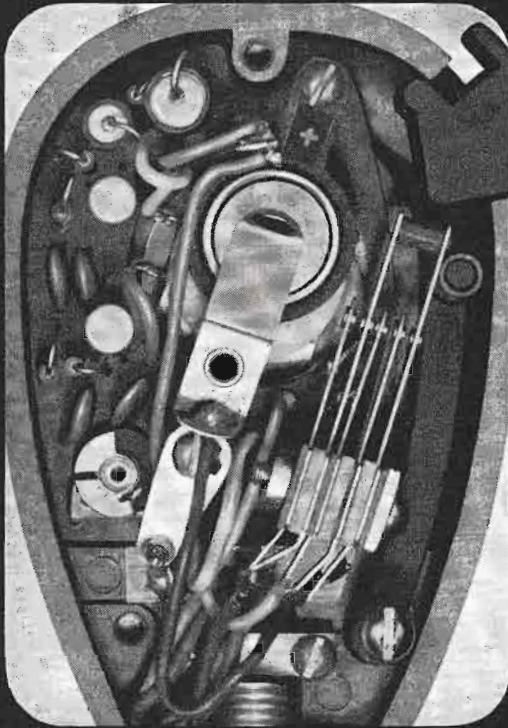
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This transistorized
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doubles your
talk power...

when you
speak into
the other side!



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No need to rewire your transmitter when you add the American D-501K. The speech clipper is completely self-contained. An internal potentiometer permits exact output level adjustment (up to -35 db) for maximum modulation without splatter. Standard battery lasts for months.

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**American
MICROPHONE CO.**
Division of Electro-Voice, Inc.
Dept. 458 RE, Buchanan, Mich.

RADIO-TV EXPERIMENTER

April-May, 1965

Cover Photo by Don Lothrop

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70,006-HP	10"	1 3/4"	30.75 f.o.b.
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WHITE'S RADIO LOG

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

THIS is the second part of *White's Radio Log*, now published in three parts twice each year. This format permits the Editors of RADIO-TV EXPERIMENTER to offer to its readers two complete volumes of *White's Radio Log* each year, while increasing the scope of the *Log* and inserting station changes as they occur.

In this issue of *White's Radio Log* we have included 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, and the expanded, up-to-date World-Wide Short-Wave Section.

In the June/July 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 World-Wide Short-Wave Section.

In the event you missed any part of the *Log* published earlier this year, you will have a complete copy of *White's Radio Log* by collecting any three consecutive issues of RADIO-TV EXPERIMENTER during 1964. The three consecutive issues comprise a complete volume of *White's Radio Log* that offers complete listings with last minute station change data 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 *White's Radio Log* an unbeatable reference.

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WHITES RADIO LOG

U. S. AM Stations by Location

Location	C.L.	Kc.
Abbeville, Ala.	WARI	1480
Abbeville, La.	KROF	960
Abbeville, S.C.	WABV	1590
Aberdeen, Md.	WAMD	970
Aberdeen, Miss.	WMPA	1240
Aberdeen, S.Dak.	KSDN	930
	KXRD	1320
Aberdeen, Wash.	KBKW	1450
Abilene, Tex.	KRBC	1470
	KCAD	1560
	KNT	1280
	KWKC	1340
Abileno, Kansas	KABI	250-
Abingdon, Va.	WBBI	1230
Ada, Okla.	KADA	1230
Adel, Ga.	WAAG	1470
Adrian, Mich.	WBJ	1490
Agana, Guam	KUAM	610
Aguaadilla, P.R.	WABA	850
	WGRF	1340
Ahoskie, N.C.	WRCS	970
Aiken, S.C.	WAIK	990
	WLOW	1300
Aitkin, Minn.	KKIN	1000
Akron, Ohio	WAKM	1590
	WAO	1350
	WCUE	1150
	WHL	640
Alamogordo, N.M.	KALG	1230
	KRAC	1270
Alamo Heights, Tex.	KDRY	1110
	KGIW	1450
Alamosa, Colo.	WALG	1590
Albany, Ga.	WFAZ	960
	WLYB	1250
	WGPC	1450
	WJAZ	960
Albany, Ky.	WANY	1390
Albany, Minn.	KASM	1150
Albany, N.Y.	WABY	1400
	WOKO	1460
	WPTR	1540
	WROW	590
Albany, Ore.	KWIL	790
	KRKY	930
Albemarle, N.C.	WABZ	1010
	WYK	1580
Albert Lea, Minn.	KATE	1450
Alberville, Ala.	WAVU	690
Albion, Mich.	WALM	1260
Albuquerque, N.M.	KABJ	1350
	KDEF	1150
	KGGM	610
	KHIP	520
	KOB	770
	KQED	920
	KARA	1310
	KVO	730
	KLOS	1450
	KRZY	1580
Aleee, Tenn.	WEAG	1470
Alexander City, Ala.	WRFS	1050
	KALB	580
Alexandria, La.	KDBS	1410
	KSYL	970
Alexandria, Minn.	IXRA	1490
Alexandria, Va.	WPIK	730
Algona, Iowa	KLGA	1600
Alice, Tex.	KOPY	1070
Alisal, Cal	KRSA	1570
Allentown, Pa.	WHOL	1600
	WAEB	790
	WKAP	1320
	WSAN	1470
Alliance, Nebr.	KCOV	1400
Alliance, Ohio	WFHA	1310
Alisal, Calif.	KRSA	1570
Alma, Ga.	WCOS	1400
Alma, Mich.	WFYC	1280
Alpena Township, Mich.		
	WATZ	1450
Alpina, Tex.	KVLF	1240
Altavista, Va.	WKDE	1280

Location	C.L.	Kc.
Alton, Ill.	WOKZ	1570
Altona, Man.	CFAM	1290
Altoona, Pa.	WFEG	1290
	WRTA	1240
	WAAW	1430
Alturas, Calif.	KCNO	570
Altus, Okla.	KWHW	1450
Alva, Okla.	KALV	1430
Amarillo, Tex.	KBUY	1010
	KFDA	1440
	KGNC	710
	KIXZ	940
	KRAY	1360
	KZIP	1310
Ambridge, Pa.	WMBA	1460
Americus, Ga.	WDEC	1290
	WISK	1390
Ames, Iowa	KASI	1430
	W01	640
Amherst, Mass.	WTTT	1430
Amherst, N.S.	CKDH	1400
Amherst, N.Y.	WUFO	1080
Amite, La.	WABL	1570
Amory, Miss.	WAMY	1580
Amsterdam, N.Y.	WAFS	1570
	WPCS	1530
Anacanda, Mont.	KANA	580
Anacortes, Wash.	KAGT	1340
Anaheim, Calif.	KEZY	1190
Anchorage, Alaska	KBVR	270
	KFQD	730
	KEN	550
Andalusia, Ala.	WCA	1480
Anderson, Cal.	KMRE	1580
Anderson, Ind.	WHUT	1470
	WHBU	1240
Anderson, S.C.	WAIM	1230
	WANS	1280
Andrews, Tex.	KACT	1360
Annapolis, Md.	WANN	1490
	WYRE	810
	WNAV	1430
Ann Arbor, Mich.	WAAM	1600
	WPAG	1050
Anna, Ill.	WRAJ	1440
Anniston, Ala.	WANA	1490
	WDRG	1450
	WHMA	1390
Anoka, Minn.	KANO	1470
Ansonia, Conn.	WADS	690
Antigo, Wis.	WATK	900
Apollo, Pa.	WAVL	910
Apopka, Fla.	WTLN	1520
Apple Valley, Cal.	KAVR	950
Appleton, Wis.	WAPL	1570
	WHBY	1230
Arab, Ala.	WRAB	1380
Arcadia, Fla.	WAPG	1480
Arcata, Calif.	KENL	1340
	KATA	1340
Ardmore, Okla.	KVSO	1240
Arecibo, P.R.	WCMN	1260
	WMIA	1070
	WNK	1230
Argentina, Nfld.	VOUS	1480
Arkadelphia, Ark.	KVRC	1240
Arkans. City, Kans.	KSOK	1490
Arlington, Fla.	WQTY	1220
Arlington, Va.	WAVA	780
	WEAM	1390
Artesia, N.M.	KSPV	990
Arvada, Colo.	KDAB	1550
Arroyo Grande, Calif.		
	KCJH	1280
Ashburn, Ga.	WMES	1570
Asbury Park, N.J.	WJLK	1440
	WHTG	1410
Asheboro, N.C.	WGWR	1260
Asheville, N.C.	WISE	1810
	WLOS	1380
	WSKY	1230
	WWNC	570
Ashland, Ky.	WCMI	1340
	WTCR	1420
Ashland, Ohio	WNCO	1340
Ashland, Ore.	KWIN	1400
	KRVC	1350
	WIVE	1480
Ashland, Va.	WATW	1400
Ashland, Wis.	WATW	1400
Ashtabula, Ohio	WVAQI	1600
	WRED	970
Aspen, Colo.	KSN0	5000
Astoria, Ore.	KAST	1370
	KVAS	1230
Atchison, Kans.	KARE	1470

Location	C.L.	Kc.
Athens, Ga.	WGAU	1340
	WDDL	1470
	WKAC	1080
	WRFC	1680
	WOKI	790
Athens, Ohio	WATH	970
	W0UB	1340
Athens, Tenn.	WLAR	1450
Athens, Tex.	KBUD	1410
Atlanta, Ga.	WPL0	590
	WAKE	1340
	WAOK	1330
	WGER	860
	WGKA	1600
	WGST	920
	WIIN	970
	WQX1	790
	WXS	750
	WYZE	1480
Atlanta, Tex.	KALT	900
Atlantic, Iowa	KJAN	1220
Atlantic Beach, Fla.	WKTX	1600
Atlantic City, N.J.	WFPG	1450
	WLDB	1490
	WMD	1430
Atmore, Ala.	WATN	1590
Attleboro, Mass.	WARA	1320
Auburn, Ala.	WAUD	1230
Auburn, Calif.	KAHI	950
Auburn, N.Y.	WMBO	1340
	WAUB	1590
Auburn, Wash.	KASS	1220
Auburndale, Fla.	WTWB	1470
Auburndale, Wis.	WLBL	930
Augusta, Ga.	WAUG	1050
	WBBQ	1340
	WBIA	1290
	WGAC	580
	WRD	1460
Augusta, Maine	WAO	1490
	WFAU	1340
Aurora, Colo.	KOS1	1490
Aurora, Ill.	WMRO	1280
	WKDD	1580
Aurora, Mo.	KSUM	940
Austin, Minn.	KASW	1460
	KGAQ	970
Austin, Tex.	KNOW	1490
	KHF1	970
	KTBC	590
	K0KE	1370
	KVET	1300
Avalon, Calif.	KGLH	740
Avon Park, Fla.	WAVP	1390
Avondale Estates, Ga.		
	WAVO	1420
Aztec, N. Mex.	KHAP	1340
Babylon, N.Y.	WBAB	1440
	WGLL	1290
Bad Axe, Mich.	KLEW	1340
Bainbridge, Ga.	WMGR	930
	WAZA	1360
Baker, Mont.	KFLN	960
Baker, Ore.	KBKR	1490
Bakersfield, Calif.	KAFY	590
	KRIS	970
	KERN	1410
	KGEE	1230
	KUZZ	800
	KLYD	1350
	KWAC	1490
	KPMC	1560
Bellingham, Wash.	KPUG	1170
Baldwinsville, N.Y.	WSEN	1050
Ballingen, Tex.	KRUN	1400
Baltimore, Md.	WBAL	1090
	WBMD	750
	WCAO	600
	WCBM	680
	WEEB	1380
	WFRB	1300
	WITH	1230
	WSID	1010
	WWIN	1400
Bamberg, S.C.	WVBD	790
Bangor, Maine	WAB1	910
	WUO	1250
	WLBZ	620
Banning, Calif.	KPAS	1490
Barboursville, Ky.	WBVL	950
Bardonia, N.Y.	WBRT	1320
Barnesboro, Pa.	WNCC	950
Barnwell, S.C.	WBAW	740
Barre, Vt.	WNSA	1450
Barstow, Calif.	KWTC	1290
	KIOT	1310
Bartlesville, Okla.	KWON	1400
Bartow, Fla.	WBAR	1460
Bassett, Va.	WDRY	900
Bastrop, La.	KODY	730
	KVDB	1340
Batavia, N.Y.	WBT	1490
Batesburg, S.C.	WBLR	1430
Batesville, Ark.	KBTA	1340
Batesville, Miss.	WBLE	1290
Bath, Maine	WJTO	730
Bath, N.Y.	WFSR	1580
Baton Rouge, La.	WAIL	1460

Location	C.L.	Kc.
	WLUX	1550
	WYNK	1380
	WIBR	1300
	WJBB	1150
	WLC	910
	WXOK	1260
Battle Creek, Mich.	WBCB	930
	WKFR	1400
	WVOC	1500
Baxley, Ga.	WHAB	1280
Bay City, Mich.	WBCM	1440
	WLC	1250
Bay City, Tex.	KIDX	1270
Bay Minette, Ala.	WBPA	1150
Bayamon, P.R.	WBPR	1600
	WSRJ	1560
Baytown, Tex.	KWBA	1360
Beacon, N.Y.	WBNR	1260
Beardstown, Ill.	WRMS	790
Beaufort, Nebr.	KWBE	1450
Beaufort, N.C.	WBMA	1400
Beaufort, S.C.	WBEO	960
	WSIB	1490
Beaumont, Tex.	KLVI	560
	KPYC	1450
	KTRE	1490
Beaver Dam, Wis.	WBEE	1430
Beaver Falls, Pa.	WBVP	1230
Beekley, W. Va.	WJLS	560
	WWNR	620
Bedford, Ind.	WBIW	1340
Bedford, Pa.	WBFD	1370
Bedford, Va.	WTBB	1470
Beeville, Tex.	KIBL	1490
Bel Air, Md.	WVCB	1520
Belen, N.Mex.	KARS	860
Belfast, Me.	WBME	1230
Belgrade, Mont.	KGVW	690
Bellaire, Ohio	WMPO	1290
Bellefontaine, Ohio		
	WOHP	1390
Bellefonte, Pa.	WBFL	1380
Bell Fourche, S.Dak.	KBFS	1450
Belle Glade, Fla.	WBSN	900
Belleville, Ont.	CJBG	800
Belleville, Ill.	WIBV	1260
Bellevue, Wash.	KBVU	1530
	KBUV	1540
Bellingham, Wash.	KPUG	1170
	KGMI	790
	KOQT	1550
Bellingham-Ferndale, Wash.		
	KENY	930
Belmont, N.C.	WCGC	1370
Belmont, Wis.	WBEL	1490
	WBEL	1380
Belton, S.C.	WBHP	1390
Belton, Tex.	KTON	940
Belton, Miss.	WELZ	1460
Bemidji, Minn.	KBUN	1450
Bend, Ore.	KRND	1190
	KGR	1440
Bennetsville, S.C.	WBSC	1550
Bennington, Vt.	WBTN	1370
Benson, Minn.	KBMO	1290
Benson, N.C.	PYB	1580
Benton, Ark.	KBB	950
	KBK	1600
Benton, Ky.	WCBL	1290
Benton Harbor, Mich.		
	WHFB	1060
Berkeley, Calif.	KPAT	1400
Berkeley Springs, W. Va.		
	WCST	1010
Berlin, N.H.	WMOU	1230
	WBRL	1400
Berry Hill, Tenn.	WVOL	1470
Berryville, Ark.	KTHS	1480
Berwick, Pa.	WBX	1280
Bessemer, Ala.	WYAM	1450
Bethesda, Md.	WST	1120
Bethlehem, Pa.	WGPA	1100
Beverly, Mass.	WMO	1500
Biddeford, Maine	WIDE	1470
Big Delta, Alaska	WXLL	980
Big Lake, Tex.	KBLT	1290
Big Rapids, Mich.	WBNN	1460
Big Sprng., Tex.	KBST	1490
	KBA	1250
	KBYG	1400
Big Stone Gap, Va.	WLSD	1220
Bijou, Cal.	KOWL	1490
Biloxi, Miss.	WLOX	1490
	WVMI	570
Billings, Mont.	KBMY	1240
	KREM	790
	KOON	970
	KOYN	910
	KURL	730
Binghamton, N.Y.	WINR	680
	WKOP	1360
	WBFB	1290
Birmingham, Ala.	WAFI	1070
	WGHM	1550
	WBR	960
	WCRT	1260
	WEZB	1220
	WENN	1320

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Location	C.L.	Kc.	Location	C.L.	Kc.	Location	C.L.	Kc.	Location	C.L.	Kc.
	WATV	900		WOKW	1410		WRKM	1350		WABC	1240
	WGSN	610		CFJR	1450		KGAS	1590	Chicago Hgts., Ill.	WMPF	1470
	WYDE	850		KNKI	1290		KCRV	1370		WCGO	1600
Bisbee, Ariz.	WVOK	890	Brookfield, Conn.	WINE	940	Casa Grande, Ariz.	KPIN	1260	Chickasha, Okla.	WKCO	1560
Bishop, Calif.	KSUH	1230	Brookfield, Mo.	KGHM	1470	Casey, Ill.	WKZI	890	Chico, Calif.	KHSL	1290
Bishopville, S.C.	KIBS	1230	Brookhaven, Miss.	WCHL	1470	Casper, Wyo.	KTWO	1470		KPAY	1060
Bismarck, N.Dak.	WAGS	1980		WJMB	1340		KATI	1400	Chippewa Falls, Wis.	WACE	730
	KFYR	550	Brookings, Ore.	KURY	910	Cathedral City, Calif.	KVOC	1230	Chippewa Falls, Wis.	KCTX	1510
	KBMR	1350	Brookings, S.Dak.	KBKR	1430		KVOC	1230	Chillicothe, Mo.	KCHI	1010
Bismarck-Mandan, N.Dak.	KBOM	1270	Brookline, Mass.	WBOS	1600	Cayce, S.C.	WCUB	520	Chillicothe, Ohio	WBEX	1450
Black Mountain, N.C.	WBMT	1510	Brooksville, Fla.	WBVJ	1450	Cedar City, Utah	KCAJ	690		WCHI	1390
	WFGW	1050	Brownfield, Tex.	KKUB	1300	Cedar Falls, Iowa	KCFI	1250	Chipley, Fla.	WBGC	1240
	WFMU	1310	Brownsville, Tenn.	WBHJ	1520	Cedar Rapids, Iowa	KCRG	1600		WAXX	1150
Black River Falls, Wis.	WVBF	1500	Brownwood, Tex.	KBWD	1390		KLWW	1450	Christiansburg, Va.	WBCR	1260
	WWIS	1260		KEAN	1240		WMT	600	Christiansted, V.I.	WIVI	1970
Blackfoot, Idaho	KBLI	690	Brunswick, Ga.	WGIG	1440		KHAK	1360	Church Hill, Tenn.	WMCH	1260
Blackhear, Ga.	WBSC	1550		WMOG	1490	Cedartown, Ga.	WGAA	1340	Cicero, Ill.	WQON	1450
Blackstone, Va.	WKLV	1440		WYDY	730	Celina, Ohio	WCMS	1350	Cincinnati, Ohio	WCKY	1530
Blackwell, Okla.	KLTR	1580	Brunswick, Maine	WCME	900	Center, Ala.	WEIS	990		WCIN	1480
Blaine, Wash.	KARI	550	Bryan, Ohio	WBNO	1520	Center, Tex.	KDET	980		WCPO	1230
Blakely, Ga.	WBBK	1260	Bryan, Tex.	KORA	1240	Centerville, Iowa	KCOG	1400		WKRC	500
Blanding, Utah	KUTA	790		WTAW	1150	Centerville, Ind.	WHON	930		WLW	700
Bloomington, Ill.	WJBC	1230	Buckhannon, W.Va.	WBUC	1460	Centerville, Miss.	WLBS	1580		WSAJ	1860
Bloomington, Ind.	WTTT	1370	Cuyahoga, Ohio	WBGO	1540	Centerville, Tenn.	WHLP	1570	Clanton, Ala.	WKLF	980
Bloomington, Pa.	WGNR	930	Buffalo, N.Y.	WYSL	1400	Centerville, Utah	KBEC	1600	Clare, Mich.	WGRM	890
	WHLM	550		WEBR	970	Central City, Ky.	WNES	1050	Claremont, N.H.	WTVJ	1290
Blountstown, Fla.	WKNK	1370		WGR	550	Centralia, Ill.	WCNT	1210	Claremore, Okla.	KWPR	1270
Blue Earth, Minn.	KBEG	1560		WKBW	1520	Centralia & Chehalis, Wash.	KELA	1470	Claremont, Pa.	WVCH	1800
Blufield, W. Va.	WHIS	1440		WVOT	1120	Centerville, Ala.	WBIB	1590	Clarksburg, W. Va.	WBOY	1400
	WKQY	1240	Buffalo, Wyo.	KBBS	1450	Centerville, Miss.	WLBS	1580		WHAR	1340
Blythe, Calif.	KYOR	450	Buford, Ga.	KBYX	1490	Ceres, Calif.	KLCC	920		WPDZ	760
Bluffville, Ark.	WBIA	1300	Burbank, Calif.	KBLA	1500	Chadburn, N.C.	WCBE	1450	Clarksdale, Miss.	WDL	1600
Boaz, Ala.	WBSA	1300	Burley, Idaho	KBAR	1280	Chadron, Nebr.	KCSR	810		WDL	1600
Boca Raton, Fla.	WSBR	740	Burlington, Iowa	KBUR	1490	Chambersburg, Pa.	WCHA	800	Clarksville, Ark.	KLYR	1360
Bogalusa, La.	WIKC	1490	Burlington, N.C.	WBBS	920		WCBG	1590	Clarksville, Tenn.	WJZM	1400
	WBOX	920		WBAG	1150	Champaign, Ill.	WDWS	1400		WDXN	540
Boise, Idaho	KATN	1010	Burlington, Vt.	WDOT	1400	Chanute, Kans.	KCRB	1460	Clarksville, Tex.	KCAR	1350
	KBOJ	950		WJJO	1250	Chapel Hill, N.C.	WCHL	1360	Claxton, Ga.	WCLA	1470
	KEST	790		WMT	620	Charleston, N.C.	WCHE	1360	Clayton, Ga.	WCLG	1320
	KGEM	1140	Burnett, Tex.	KTSL	1340	Charleston, Pa.	KCHA	1580	Clayton, Mo.	KXLA	370
	KIDO	630	Burns, Ore.	KRNS	1230	Charleston, Ill.	WEIC	1270		KFDU	850
	KYME	740	Butler, Ala.	WPRN	1240	Charleston, Mo.	KCHR	1350	Clayton, N.Mex.	KLMX	1450
Bolivar, Mo.	KBLR	1550	Butler, Mo.	KMAM	1530	Charleston, S.C.	WCSC	1390	Clearfield, Pa.	WCPA	900
Bolivar, Tenn.	WBOL	1560	Butler, Pa.	WBUT	1050		WOKA	1340	Clearwater, Fla.	WTAN	1340
Donham, Tex.	KFYH	1420	Butte, Mont.	WISR	680		WPAI	730		WAZE	860
Boone, Iowa	KFDJ	1260	Cadillac, Mich.	KXLE	1370		WGSN	1450	Clatsop, Ore.	KCLB	1120
	WKBG	1500		WATT	1240	Charleston, W.Va.	WCWA	680	Cleveland, Ga.	WRWH	1350
Boone, N.C.	WATA	1450	Cairo, Ga.	WGRA	790		WCHS	580	Cleveland, Miss.	WCLD	1490
Boonville, Ind.	WBNI	1450	Cairo, Ill.	WKRO	1490		WCVS	580		WDSK	1410
Boonville, Mo.	KWRT	1370	Calais, Maine	WQED	230		WKAY	950	Cleveland, Ohio	KYWB	1100
Boonville, Miss.	WBIP	1400	Caldwell, Idaho	KCID	1490		WTIP	1240		WDOK	1260
Boonville, N.Y.	WBIV	900		KBGN	910		WXVA	1550		WERE	1300
Borgas, Tex.	KHIZ	1490	Calera, Ala.	WBVE	1370		WGER	1390		WGR	1250
	KBBS	1600	Calixico, Calif.	KICO	1490	Charlotte, Mich.	WCER	1390		WHK	1420
	WBZ	1030	Calhoun, Ga.	WCGA	900	Charlotte, N.C.	WBT	1100		WABQ	1540
Boston, Mass.	WCOP	1150	Camas, Wash.	KVAN	1480		WAYS	610		WJW	850
	WILD	1090	Cambridge, Md.	WCEN	1290		WVIV	1600	Cleveland, Tenn.	WBAC	1340
	WNAC	680	Cambridge, Mass.	WTAO	740		WKTC	1310		WGLE	1570
	WWEZ	1260	Cambridge, Ohio	WILE	1270	Charlotte Amalie, V.I.	WBNB	1000	Cleveland, Tex.	KCLB	1410
	WWEI	590	Camden, Ark.	KAMD	910		WBNS	1000	Clev. Hgts., Ohio	WJMO	1490
	WHDH	650		KJWH	1450		WVOK	1480	Clewiston, Fla.	WOWY	1590
	WMEX	1510	Camden, N.J.	WCAM	1310		WRPL	1540	Clifton, Ariz.	KCLF	1400
Boulder, Colo.	WBRL	950		WCAM	1310		WVON	1400	Clifton Forge, Va.	WCDF	1230
	KBOL	1490	Camden, S.C.	WACN	800		WVON	1400	Clincho, Va.	WDIC	1380
	KBEY	1360	Camden, Tenn.	WFMI	1220	Charlotte Amalie, V.I.	WBNS	1000	Gilnton, Ill.	WHOW	1520
Bowie, Tex.	KBAN	1410	Cameron, Tex.	KMIL	1330	Charlottesville, Va.	WELK	1010	Gilnton, Iowa	KROS	1340
Bowling Green, Ky.	WKCT	930	Camilla, Ga.	WCLB	1250		WINA	1400	Clinton, Mo.	KDKD	1280
	WBGN	1340	Campbell, Ohio	WHOT	1330	Chase City, Va.	WMEK	980		KITH	1350
	WLBJ	1410	Campbellsville, Ky.	WTCO	1450	Chattahoochee, Fla.	WSPB	1580	Clinton, N.C.	WRZZ	880
Bowl, Green, Ohio	WVGS	730	Canandaigua, N.Y.	WCRG	1550		WCOC	930	Clinton, Okla.	KWOO	1320
Boynton Beach, Fla.	WZZZ	1510	Canon City, Colo.	KBLN	1450	Chattanooga, Tenn.	WVON	1400	Clinton, S.C.	WPCG	1410
	KXZZ	1450	Canonsburg, Pa.	WARO	540		WVON	1400	Clinton, Tenn.	KROS	1340
Bozeman, Mont.	KBAN	1230	Canton, Ga.	WCHK	1290		WDEF	1370	Cloquet, Minn.	WKLK	1230
Bradbury Hgts., Md.	WPGC	1580	Canton, Ill.	WBYS	1560		WDOJ	1310	Clovis, N.Mex.	KCLV	1240
Braddock, Pa.	WVAG	1550	Canton, Miss.	WMGO	1370		WDOD	1310	Coachella, Calif.	KCHV	970
Braddocks Heights, Md.	WHH	1370	Canton, N.C.	WWTI	970		WDXB	1490	Coalinga, Calif.	KBMX	1470
	WTR	1490	Canton, Ohio	WCNS	900	Cheboygan, Mich.	WCBY	1240	Coatsville, Pa.	WCOJ	1420
Bradenton, Fla.	WBBR	1420		WHOF	1050	Cheekawaga, N.Y.	WNIA	1250	Cocoa, Fla.	WKKO	860
Bradford, Pa.	WESB	1490	Canyon, Tex.	WINW	1520	Chehalis-Centralia, Wash.	KITI	1420		WEZY	1350
Brady, Tex.	KNEL	1490	Capo Girardeau, Mo.	KFVS	960		KOZI	1220	Cocoa Beach, Fla.	WKRT	1300
Brainerd, Minn.	KLIJ	1380		KZJM	1220	Chelan, Wash.	WCRC	1420	Cody, Wyo.	KODI	1400
	KVBR	1340	Carbondale, Ill.	WCIL	1020	Cheraw, S.C.	WCRC	1420	Coeur d'Alene, Ida.	KVNI	1240
Branson, Mo.	KBHM	1320	Caribou, Maine	WFST	600	Cherryville, N. C.	WCSS	1590	Coffeyville, Kans.	KOFG	690
Brantford, Ont.	CKPC	1380	Carlsle, Pa.	WHYL	960	Cherokee, Iowa	KCHE	1440	Colby, Kans.	KXCB	990
Battleboro, Vt.	WTS	1450	Carlsbad, N.Mex.	KAVE	1240	Chester, Ill.	KSGM	980	Coleman, Mich.	WTVB	1590
	WKVT	1490	Carmel, Calif.	KPEM	740	Chester, Pa.	WEEZ	1590	Coldwater, Tex.	KSTA	1000
Brawley, Calif.	KROP	1300	Carmi, Ill.	KRMI	1410		WVCH	740	Colfax, Wash.	KCLX	1450
Brazil, Ind.	WWCM	1380	Carnegie, Pa.	WZUM	1590	Chester, S.C.	WGCD	1490	College Park, Ga.	WEAD	1570
	WBEM	1450	Caro, Mich.	WKYO	1360	Chester, Va.	WKI	1410	Colonial Heights, Va.	WPVA	1290
	KBMW	1450	Carroll, N.C.	WVOD	1400	Chestertown, Md.	WCTR	1530	Colorado City, Tex.	KVNC	1320
Breckenridge, Tex.	KSTB	1430	Carrington, N.Dak.	KDAK	1600	Cheyenne, Wyo.	KFCB	1240	Colo. Sprrgs., Colo.	KRDO	1280
Bremen, Ga.	WWCC	1440	Carrizo Springs, Tex.	KBEN	1450		KCHY	1530		KPIK	1540
Bremerton, Wash.	KBRO	1490		KCIW	1380		KRAE	1480		KVOR	1300
Brenham, Tex.	KWHI	1280	Carrollton, Ala.	WRAG	590		KVWO	1370		KSSS	740
Brevard, N.C.	WPNE	1240	Carrollton, Ga.	WLBB	1100		WAUF	950		KYSN	1460
Brewster, N.Y.	WBWR	1510	Carrollton, Mo.	KQOL	1430		WAIT	820		KRYT	1530
Brewton, Ala.	WBIS	1240	Carson City, Nev.	KPTL	1300		WBBM	780	Columbia, Ky.	WAIN	1270
Bridgeton, Ala.	WBTS	1480	Cartersville, Ga.	WBHF	1450		WCFL	1000	Columbia, Miss.	WCJU	1450
Bridgeton, Conn.	WICC	600		WKRW	1270		WEDC	1240	Columbia, Mo.	KFRU	1400
	WNAB	1450	Carthage, Ill.	WCZA	990		WGN	720		KCGM	1580
	WSNJ	1240	Carthage, Mo.	KDMD	1490		WIND	560	Columbia, Pa.	WCOS	1580
Bridgeton, N.J.	KBUH	800	Carthage, Miss.	WEPD	1480		WJJD	1160	Columbia, S.C.	WCOY	1490
Brighton, Colo.	KBRN	900		KBEN	1450		WLS	890		WIS	560
Brimley, Ark.	KBRI	1570	Carroll, Iowa	KCIW	1380		WMAQ	670		WOIC	1320
Bristol, Conn.	WBIS	1440	Carrollton, Ala.	WRAG	590		WMBI	1110		WNOK	1230
Bristol, Tenn.	WOPJ	1490	Carrollton, Ga.	WLBB	1100		WNUS	1390		WQXL	1470
	WKYE	1550	Carrollton, Mo.	KQOL	1430						
Bristol, Va.	WCYB	690	Carson City, Nev.	KPTL	1300						
	WFHG	980	Cartersville, Ga.	WBHF	1450						
Brockton, Mass.	WBET	1460		WKRW	1270						

WHITE'S RADIO LOG

Location	C.L.	Kc.	Location	C.L.	Kc.	Location	C.L.	Kc.
Crossville, Tenn.	WAEW	1330	Detroit Lakes, Minn.	KDLM	1340	Elko, Nev.	KELK	1240
Crowley, La.	KSIG	1450	Devils Lake, N. Dak.	KDLR	1240	Elkton, Md.	WSER	1550
Cuero, Tex.	KGFH	1500	Dexter, Mo.	KDEX	1250	Eltensburg, Wash.	KCLE	1600
Cullman, Ala.	WFMH	1480	Diboll, Tex.	KSPJ	1590	Eltsworth, N.Y.	WDEA	1370
Culpeper, Va.	WGYA	1490	Dickinson, N. Dak.	KDIX	1270	Elmira, N.Y.	WELM	1410
Cumberland, Ky.	WCMP	1280	Dickson, Tenn.	WDKN	1260	Elmira, N.Y.	WENY	1230
Cumberland, Md.	WCUM	1230	Oilton, Mont.	KDBM	800	Elmira Heights- Horseheads, N.Y.	WEHH	1590
Cummings, Ga.	WTBO	1450	Dillon, S.C.	WDSC	800	El Paso, Tex.	WEHD	800
Cushing, Okla.	WSNE	1410	Dimmitt, Tex.	KDHN	1470		KELP	920
Cuyahoga Falls, Ohio	KUSH	1600	Dinuba, Calif.	KRDU	1130		KHEY	690
Cypress Gardens, Fla.	WCUE	1150	Dixon, Ill.	WIXN	1460		KJNT	1590
	WGTO	540	Dodge City, Kans.	KEDD	1550		KIZZ	1150
Cynthiana, Ky.	WCYN	1400	Donaldsonville, Ga.	WSEM	1500		KSET	1340
Dade City, Fla.	WDFC	1350	Doniphan, Mo.	KDFN	1500	El Reno, Okla.	KTSM	1380
Dadeville, Ala.	WDVC	910	Dothan, Ala.	WAGF	1320	Ely, Minn.	WELY	1450
Dalhart, Tex.	KXIT	1410		WDIG	1450	Ely, Nev.	KELY	1230
Dallas, N.C.	WAAK	960		WDFP	1450	Elyria, Ohio	WEOL	930
Dallas, Oreg.	KROW	1460	Douglas, Ariz.	KAPR	930	Eminence, Ky.	WSTL	1600
Dallas, Tex.	KRLD	1080	Douglas, Ga.	WDMG	860	Emporia, Kans.	KVOE	1400
	KIXL	1040		WOKA	1310	Emporia, Va.	WEVA	800
	KSKY	660	Douglas, Wyo.	KWIV	1050	Emporium, Pa.	KEMF	1250
	KLIF	1190	Douglasville, Ga.	WDGL	1520	Endicott, N.Y.	WENE	1430
	WFAA	570	Dover, Del.	WDOV	1410	Englewood, Colo.	KGMC	1150
	WFAA	820	Dover, N.J.	WRAN	1510	Englewood, Fla.	WENG	1530
	WRR	1310	Dover, N.H.	WTSN	1270	Enid, Okla.	KCRC	1390
Dalton, Ga.	WBLJ	1230	Dowagiac, Mich.	WDOA	1440		KGWA	960
	WRCD	1430	Doylestown, Pa.	WBUX	1570	Enterprise, Ala.	WIRB	800
	WLTD	1190	Dublin, Ga.	WMLT	1330	Enterprise, Oreg.	KROD	1460
Danbury, Conn.	WLAD	800		WXLJ	970	Ephrata, Pa.	WGSA	1310
Danville, Ill.	WDAN	1490	Du Bois, Pa.	KOTH	1370	Ephrata, Wash.	KULF	730
	WITY	980	Dubuque, Iowa	WDBQ	1490	Erie, Pa.	WWTN	1260
Danville, Ky.	WHIR	1230	Duluth, Minn.	KDAL	610		WICU	1380
Danville, Pa.	WPGM	1570		WECB	560		WJET	1400
Danville, Va.	WBTM	1330		KAGH	1390	Erwin, Tenn.	WARG	1450
	WYFR	970	Dumas, Tex.	KDDO	900	Escanaba, Mich.	WEMB	1420
	WDVA	1250	Dumas, Okla.	KHD	350		WLM	800
Dardanelle, Ark.	WILA	1580	Dundalk, Md.	WAYE	860		WLST	900
Darlington, S.C.	WDAR	1350	Dundee, N.Y.	WFLR	1570	Escondido, Calif.	KDWN	1456
Davenport, Iowa	WOC	1420	Dunkirk, N.Y.	WDOE	1410	Espanola, N. M.	KOWE	970
	KWNT	1580	Dunn, N.C.	WCKB	780	Etowah, Tenn.	WCPI	1226
	KSTT	1170	Du Quoin, Ill.	WDQN	1580	Eufaula, Ala.	WULA	1246
Dawson, Ga.	WDWD	900	Durango, Colo.	KIUP	930	Eugene, Oreg.	KORE	1450
Dayton, Ohio	WHIO	1290		KGD	1240		KRKL	1500
	WING	1410	Durant, Okla.	KSFO	750		KASH	1600
	WONE	980	Durham, N.C.	WDNC	620		KATR	1321
	WAVI	1210		WSRC	1410		KERG	1260
Dayton, Tenn.	WDNT	1280		WSSS	1490		KUGN	590
Daytona Beach, Fla.	WNDB	1150		WTKI	1310		KWFS	1540
	WMFJ	1340	Dyersburg, Tenn.	WDSG	1450	Eunice, La.	KEUN	1490
	WRDD	1450		WTH	1370	Eureka, Calif.	KRMS	900
Deadwood, S. Dak.	KDSJ	980	Eagle Pass, Tex.	KEPS	1270		KDAN	790
Dearborn, Mich.	WHOS	830	Eagle River, Wis.	WERL	950		KRED	1480
Decatur, Ala.	WAIF	1490	Easley, S.C.	WELP	1360	Evanston, Ill.	WLCO	1240
	WMSL	1400	E. Grand Forks, Minn.				WLEA	1590
Decatur, Ga.	WGUN	1010	Eastland, Tex.	KRAD	1590		WNMP	1590
	WOMN	1310	East Lansing, Mich.	KERC	1590	Evansville, Ind.	KEVA	1240
Decatur, Ill.	WDZ	1050	E. Liverpool, Ohio	WOHI	1490		WGBF	1280
	WSOY	1340	East Longmeadow, Mass.	WTYM	1600		WKLY	820
	WADM	1540	Eastman, Ga.	WPFE	1580		WJPS	1330
Decorah, Iowa	KWLC	1240	E. Moline, Ill.	WDLW	960	Eveleth, Minn.	WEVE	1340
Deer Lodge, Mont.	KDRG	1400	E. Point, Ga.	WTH	1260	Everett, Wash.	KRKO	1890
Deerfield, Va.	WABH	1150	E. St. Louis, Ill.	WAMV	1450		KWYZ	1230
Defiance, Ohio	WONW	1280	Easton, Md.	WEMD	1460	Evergreen, Ala.	WBLO	1470
De Funik Springs, Fla.	WOSP	1280	Easton, Pa.	WEEX	1230	Fairbanks, Alaska	KFAR	610
	WZEP	1460	Eatontown, N.J.	WHTG	1410		KFRB	900
De Kalb, Ill.	WLBK	1360	Eau Claire, Wis.	WEA9	790	Fairbury, Nebr.	KGMT	1310
Do Land, Fla.	WJBS	1490		WEIZ	1400	Fairfax, Va.	KFDL	960
	W000	1310	Eau Gallie, Fla.	WMEG	920	Fairfax, Va.	WFII	1390
Delano, Calif.	KGHJ	1010	Ebensburg, Pa.	WEND	1580	Fairfield, Iowa	KMCD	1520
Delaware, Ohio	WDLB	1550	Edenton, N.C.	WCDD	1260	Fairhope, Ala.	WABF	1270
Delray, Bch., Fla.	WDBF	1420	Edinburg, Tex.	KURV	710	Fairmont, Minn.	KSUM	1370
Del Rio, Tex.	KDLK	1230	Edmonds, Wash.	KGDN	630	Fairmont, N.C.	WFMO	860
Delta, Colo.	KDTA	1400	Edinburgh, Ill.	WCRJ	1090	Fairmont, W. Va.	WMMN	920
Deming, N. Mex.	KOTS	1230	Elba, Ala.	WEL	1950	Fairmont, W. Va.	WMTS	1490
Demopolis, Ala.	WXAL	1400	Elberton, Ga.	WSGC	1400	Fairway, Kan.	KUDL	1380
	WJWT	1350	El Cajon, Calif.	KDEO	910	Fajardo, P.R.	WMDD	1480
Denham Sprngs., La.	WLBI	1220	El Campo, Tex.	KULP	1390	Fairview, N.C.	KPSO	1280
Denton, Iowa	KDSN	1580	El Centro, Calif.	KXO	1230	Fall River, Mass.	WALE	1400
Denison-Sherman, Tex.	KDSX	950		KAMP	1430		WSAR	1480
	KDNT	1440	El Dorado, Ark.	KDMS	1290	Falls Church, Va.	WFAX	980
Denton, Tex.	KDEN	1340	El Dorado, Kans.	KBTO	1350	Falls City, Nebr.	KTNC	1230
Denver, Colo.	KFML	1390	Eldorado Springs, Mo.	KESM	1580	Fargo, N. Dak.	WDAY	970
	KHOW	630	Elgin, Ill.	WRMN	1410		KFNW	900
	KIMN	950	Elizabeth City, N. C.	WCNC	1240		KUTT	1550
	KJL	990		WBEJ	1240	Farmington, La.	KDHL	920
	KLZ	560	Elizabethtown, Tenn.	WIDD	1520	Farmington, Mo.	WKTJ	1380
	KBTR	710	Elizabethtown, Ky.	WIEL	1400	Farmington, Mo.	KREI	800
	KOA	650	Elizabethtown, N.C.	WBLA	1440	Farmington, N.M.	KENN	1390
	KPOF	910		WHRY	1600		KWYK	960
	KFCO	1220	Elizabethtown, Pa.	KBEK	1240	Farmville, N.C.	WFAG	1250
	KTLN	1280	Elkhart, Ind.	WTRC	1340	Farmville, Va.	WFEO	870
	KKA	1580		WCMB	1270	Farrell, Pa.	KFLD	1470
Denver City, Tex.	KQDN	1390	Elkins, N.C.	WIFM	1540	Farwell, Tex.	KZOL	1570
De Queen, Ark.	KDLA	1010	Elkins, W. Va.	WDNE	1240	Fayette, Ala.	WVWF	990
De Ridder, La.	KCBK	1390				Fayetteville, Ark.	KHOG	1440
Des Moines, Iowa	KIOA	940					KFAY	1250
	KRNT	1350				Fayetteville, N.C.	WFAT	1230
	KSO	1460					WFNC	940
	KWY	1150					WFLA	1470
	WHO	1040					WIDU	1600
Detroit, Mich.	WCAR	1130				Ferry Falls, Minn.	WEKR	1240
	WJBK	1500					KOTE	1250
	WJLB	1400						

Location	C.L.	Kc.	Location	C.L.	Kc.	Location	C.L.	Kc.	Location	C.L.	Kc.
Fernandina Beach, Fla.	WPAP	1570	KEAP	980	WJEF	1230	Harrisonburg, Va.	WHBG	1360		
Ferriday, La.	KFNV	1600	KXEX	550	WFR	1370	WVA	550			
Festus, Mo.	KJCF	1400	KFRE	940	WGRD	1410	WBN	1420			
Festus-St. Louis, Mo.	KXEN	1010	KGST	1600	WLAV	1340	WDRG	1360			
Findlay, Ohio	WF1N	1380	KMAK	1340	WMAX	1480	WCCC	1290			
Fisher, W. Va.	WELD	690	KMJ	580	WOOD	1300	WPOL	1410			
Fitchburg, Mass.	WEIM	1280	KYNO	1900	KOZY	1400	WTIC	1080			
Fitzgerald, Ga.	WBHB	1240	WFRB	1450	KORT	1230	WTKM	1540			
Flagstaff, Ariz.	KCLS	600	WFUL	1270	GORT	920	WYBC	850			
	KJKT	1400	KFAL	900	Granite Falls, N. C.	WKJK	1580	WHSC	1450		
	KEOS	690	WOSC	1300	Grants, N. Mex.	KMIN	980	WKLY	980		
	KEOS	1290	Gadsden, Ala.	WEVG	1460	Grants Pass, Oreg.	KAGI	980	WMCW	1600	
Flat River, Mo.	KFMO	920	WEAD	1350	KAJJ	1270	Harvey, Ill.	WBEE	1570		
Flint, Mich.	WDFD	1210	WETO	980	KJUD	1370	Hastings, Mich.	WBCH	1220		
	WTRX	1330	WEAX	570	Grayson, Ky.	WGOH	1370	Hastings, Minn.	KDWA	1460	
	WAMM	1420	WEAC	1500	Gt. Barrington, Mass.	WSBS	860	Hastings, Nebr.	KICB	1550	
	WHRP	1570	WFGN	1570	Gt. Bend, Kans.	KVGB	1590	Hattiesburg, Miss.	WBKH	950	
	WKMJ	1470	WOVH	980	Gt. Falls, Mont.	KFBB	1310	WFOR	1400		
	WTAC	600	WQON	1230		KUDI	1510	WHXY	1230		
Flomaton, Ala.	WTCB	930	WRUF	850		KMON	580	WXXX	1310		
Florence, Ala.	WJOI	1440	WGGA	550		KARR	1400	WUSM	1330		
	WOVL	1240	WDUN	1240	Greeley, Colo.	KFKA	1310	WHAV	1490		
	WJMX	970	WLBA	1580	Green Bay, Wis.	KYOU	1450	Havre, Mont.	KOJM	610	
	WJNS	1230	WGBA	1580		WBAY	1360	Havre de Grace, Md.	WASA	1330	
	WYNN	540	WHMG	1150		WJPG	1440	Hawkinsville, Ga.	WCEH	610	
Floydada, Tex.	WFLD	900	WOBG	1360		WDUJ	1410	Haynesville, La.	KLUV	1580	
Foley, Ala.	WHEP	1310	WGL	400		WRY	1340	Hays, Kans.	KAYS	1400	
Fond du Lac, Wis.	KFIZ	1450	WAIK	1590		WSMG	1450	Hayward, Wis.	WHSM	910	
Fordyce, Ark.	KBJT	1570	WHIN	1010	Greenfield, Mass.	WHAI	1240	Hazard, Ky.	WVCH	920	
Forest, Miss.	WMAG	860	WJEH	990	Greensboro, N. C.	WBGJ	1470	Hazlehurst, Ga.	WVOH	920	
Forest City, N. C.	WBBO	780	WGAJ	1400		WCOG	1320	Hazlehurst, Miss.	WMDC	1220	
Forest Grove, Ore.	KAGY	1320	KYYA	1230		WEAL	1510	Hazleton, Pa.	WAZL	1490	
Forrest City, Ark.	KXKJ	930	KIBC	1400		WKTG	1570		WTHT	1300	
Ft. Atkinson, Wis.	WFAW	940	KGBG	1540		WPET	950	Helena, Ark.	KFFA	1360	
Ft. Bragg, Calif.	KDAC	1239	CBG	1450	Greenburg, Ind.	WGRB	1330	Helena, Mont.	KCAP	1340	
Ft. Campbell, Ky.	WABD	1370	KNCO	1050	Greensburg, Pa.	WHJE	620	Hemst, Calif.	KHSJ	1320	
Ft. Collins, Colo.	KCOL	1410	KIUL	1240	Greenville, Ala.	WGYV	1380	Hempstead, N. Y.	WHYI	1100	
Ft. Dodge, Iowa	KWDI	1400	WERB	1090	Greenville, Ky.	WKYF	1600	Henderson, Ky.	WSDN	860	
	KWMT	540	WGAA	600	Greenville, Mich.	WJFR	1330	Henderson, Nev.	KBML	1400	
Ft. Knox, Ky.	WSAC	1479	WLTH	1370	Greenville, Miss.	WDDT	920	Henderson, N. C.	KTOO	1280	
Ft. Lauderdale, Fla.	WFTL	1400	WGNC	1450		WGVN	1260	Henderson, N. C.	WHNC	890	
	WVIL	1580	WLTC	1370	Greenville, Pa.	WGRP	940	Henderson, N. C.	KERI	1000	
Ft. Madison, Iowa	KXGI	1360	WGAT	1050	Greenville, N. C.	WGTG	1590	Henderson, Tex.	KWRD	1470	
Ft. Morgan, Iowa	KFTB	1500	WATC	900		WODJ	1340	Hendersonville, N. C.	WHKP	1450	
Ft. Myers, Fla.	WINK	1240	WGOS	1500		WESC	860		WHVL	1600	
	WMYR	1410	WGEA	1150	Greenville, S. C.	WFBC	1330	Henryetta, Okla.	KHEN	1500	
	WCAI	1350	WGSB	1480		WMRB	1490	Herford, Tex.	KPA	860	
	WIRA	1360	WGA	1240		WMLU	1260	Herkimer, N. Y.	WALY	1420	
Ft. Payne, Ala.	WFPA	1400	WJWL	900		WQOK	1440	Hermiston, Oreg.	KOHU	1570	
	WZOB	1250	WGTD	470	Greenville, Tex.	KGVL	1400	Herrin, Ill.	WJPF	1340	
Ft. Pierce, Fla.	WARN	1330	WGTM	1400	Greenwich, Conn.	WGTG	1490	Hettinger, N. Dak.	KNDC	1490	
	WIRA	1360	WGTN	1530	Greenwood, Miss.	WBG	960	Hibbing, Minn.	WMFG	1240	
Ft. Scott, Kans.	KMDO	890	WGTT	1400		WGRM	1240	Hickory, N. C.	WHKY	1200	
Ft. Smith, Ark.	KKFS	950	KIML	1490		WLWF	1540		WSPF	1000	
	KTCS	1410	KPER	1290	Greenwood, S. C.	WCBS	1450	Highland, Ill.	WINU	1510	
	KWHN	1320	KEES	1430		WGSW	1350	Highland Park, Ill.	WEEF	1480	
Ft. Stockton, Tex.	KFTS	860	KWAK	1490	Greer, S. C.	WEAB	800	Highland Park, Tex.	KVIL	1150	
Ft. Valley, Ga.	WFFM	1150	WGOS	1440		WPKI	1400	Highland Springs, Va.	WENZ	1450	
Ft. Walton Beach, Fla.	WNUW	1400	KLTZ	1240	Grenada, Miss.	WNAG	1530	High Point, N. C.	WMFR	1230	
	WFTW	1260	WISZ	1590	Gresham, Oreg.	KRDR	730		WNOS	1590	
	WGL	1250	KRUX	1380	Gretna, Va.	WMNA	1300		WHPE	1070	
	WOWO	1190	KIEV	870	Griffin, Ga.	WKEU	1450	Hillsboro, Ohio	WSRW	1590	
	WANE	1450	KXGN	1400		WHIE	1320	Hillsboro, Oreg.	KUIK	1360	
	WJG	1380	KGLE	590	Grinnell, Iowa	WRX	1410	Hillsboro, Tex.	KPB	1560	
	KJIM	870	KCAM	790	Groves, Conn.	KCAM	1410	Hillsdale, Mich.	WCSR	1340	
Ft. Worth, Tex.	KCUV	1540	WSET	1410	Grove City, Pa.	WSAJ	1340	Hillsville, Va.	WHHV	1400	
	KFLZ	1270	WVSC	1450	Grundy, Va.	WNRG	940	Hilo, Hawaii	KHBC	970	
	KNOK	970	WGLN	980	Guayama, P. R.	WXRF	1590		KIPA	1110	
	WBAP	570	KZOW	1240	Gulfport, Miss.	WROA	1390		KIML	930	
	WBAP	820	WDDY	1420	Gunnison, Colo.	WGM	1240	Hinesville, Ga.	KMTL	850	
	KXOL	1360	WDSB	1490	Guntersville, Ala.	WGSV	1270	Hinton, W. Va.	WMTD	1380	
Fostoria, Ohio	WFOB	1430	WENT	1340	Guthrie, Okla.	KWRV	1490	Hobbs, N. Mex.	KWWE	1460	
Fountain City, Tenn.	WGYW	1430	KICM	1250	Guymon, Okla.	KGYN	1220		KHOB	1390	
	WROL	1490	KLEB	1600	Hagerstown, Md.	WARK	1490		KDJI	1270	
Fountain Inn, S. C.	WFIS	1600	Globe, Ariz.	KLGB	980	Haines City, Fla.	WHAN	930	Holdenville, Okla.	KVYL	1370
Fowler, Calif.	KLPD	1220	Gloucester, Va.	WDDY	1420	Haleyville, Ala.	WJBB	1230	Holdrege, Nebr.	KUVR	1360
Framingham, Mass.	WKGX	1190	Groversville-Johnston, N. Y.	KWENT	1490	Halfway, Md.	WHAG	1410	Holland, Mich.	WHTC	1450
Frankfort, Ind.	WILO	1570	Gold Beach, Oreg.	KBLY	1220	Hamden, Conn.	WDEE	1220		WJBL	1260
Frankfort, Ky.	WFKY	1490	Golden, Colo.	KICM	1250	Hamilton, Ala.	WERH	970	Hollister, Calif.	KGHT	1520
Franklin, Ky.	WFKN	1220	Golden Meadow, La.	KLEB	1600	Hamilton, Mont.	KYLG	980	Hollywood, Fla.	WGMA	1320
Franklin, La.	KFRA	1330	Golden Valley, Minn.	KQRS	1440	Hamilton, Ohio	WGOH	1430	Holly Hill, S. C.	WHHL	1440
Franklin, N. C.	WFSC	1050		KUXL	1570	Hamilton, Tex.	KCLW	990	Holyoke, Mass.	WREB	930
Franklin, N. H.	WFTM	1240	Goldsboro, N. C.	WGBR	1150	Hanlet, N. C.	WKDX	1250	Home, La.	KHAL	1320
Franklin, Pa.	KFRA	1430		WGL	1300	Hammond, Ind.	WJOB	1230	Homestead, Fla.	WJL	1400
Franklin, Tenn.	WAGG	950	Gonzales, Tex.	KCTI	1340	Hammond, La.	WFPR	1400	Homewood, Ala.	WILD	1400
Franklin, Va.	WYSR	1250	Goodland, Kans.	KLOE	730	Hammond, N. J.	WNHJ	1570	Honolulu, Hawaii	KAIM	870
Frederick, Md.	WFMD	930	Goshen, Ind.	WKAM	1460	Hampton, S. C.	WBHC	1280		KGMB	590
Frederick, Okla.	KTAT	1570	Gouverneur, N. Y.	WIGS	1230	Hampton, Va.	WVEG	1490		KZOO	1210
Fredericksburg, Tex.	KNFA	910	Grafton, N. D.	KGPC	1340	Hancock, Mich.	WMPJ	920		KHAI	1090
	WFVA	1230	Grafton, W. Va.	WVWV	1260	Hanford, Calif.	KNGS	620		KPOI	1380
	WFLS	1350	Graham, Tex.	KSWA	1330	Hannibal, Mo.	KHMO	1070		KIKI	850
Fredericktown, Mo.	KFTW	1450	Grand Coulee, Wash.	KDFR	1360	Hanover, N. H.	WTSL	1400		KHVA	1040
	WBUZ	1570	Grand Forks, N. D.	KFJM	1370		WDCR	1400		KNDI	1270
	WFRL	1570		KILO	1440	Hanover, Pa.	WHVR	1340		KOHO	1170
	WGBB	1240	Grand Haven, Mich.	KNOX	1310	Hardin, Mont.	KHVN	1250		KOLL	1420
	KBKZ	1460				Harlan, Ky.	WHLN	1410		KORL	650
	WBFC	1490	Grand Island, Nebr.			Harlingen, Tex.	KBGT	1530		KTRG	990
	WSHN	1550				Harriman, Tenn.	WHBT	1600		KULA	690
	KHUB	1340	Grand Junction, Colo.	KREX	920	Harrisburg, Ill.	WEBQ	1240		KUR	1340
	WFRO	900		KSEX	1230	Harrisburg, Pa.	WFEC	1400		KXAR	1490
Fremont, Nebr.	KHUB	1340		KSTR	620		WCMB	1460		WHAP	1340
Fremont, Ohio	WFRO	900		KWSL	1340		WHP	580		WHOP	1230
Fresno, Calif.	KARM	1480	Grand Prairie, Tex.	PCPW	730		WKBO	1230		WKOA	1480
	KIRV	1510	Grand Rapids, Mich.				KHOZ	900		KHOK	1560

WHITE'S RADIO LOG

Location C.L. Kc.

Hornell, N.Y. WWHG 1320
 WEA 1480
 Hot Springs, Ark. KAAB 1840
 KBHS 590
 KZNG 1470

Hot Springs, S.Dak. KOBH 580
 WDF 1400

Houghton Lake, Mich. HGR 1290
 WYOU 1340
 Houma, La. KCIL 1490
 Houston, Miss. WCPC 940
 Houston, Mo. KTBC 1250
 Houston, Tex. KCOH 1430
 KILT 610
 KNUZ 1230
 KODA 1010
 KPRC 950
 KTHT 790
 KTRH 740
 KXYZ 1320
 KYOK 1890
 WWH 1350

Hewell, Mich. WHUC 1230
 Hudson, N.Y. WHUC 1230
 Hugo, Okla. KIHN 1340
 Humacao, P.R. WALO 1240
 Humboldt, Tenn. WIRJ 740
 Huntingdon, Pa. WHUN 1150
 Huntington, Ind. WHLT 1300
 Huntington, N.Y. WGSN 740
 Huntington, W.Va. WKEE 800
 WSAZ 930
 WWHY 1470

Huntsville, Ala. WBHP 1200
 WEUP 1630
 WFKX 1450
 WAAY 1550

Huntsville, Tex. KSAM 1490
 Huron, S.Dak. KIJV 1340
 Hutchinson, Kans. KWBW 1450
 KWHK 1260

Hutchinson, Minn. KDUI 1260
 Hyde Park, N.Y. WHYW 950
 Idabel, Okla. KBEL 1240
 Idaho Falls, Idaho KID 590
 KTEE 1260

Immokalee, Fla. WCOF 1490
 Independence, Ia. KUPI 980
 KOUR 1220

Independence, Kans. KIND 1010
 KCCX 1510

Indiana, Pa. WDAD 1450
 Indianapolis, Ind. WATT 810
 WBRI 1500
 WFBM 1260
 Ironton, Ohio WISD 1590
 WIBC 1070
 WIFE 1310
 WIRE 1430
 WXLW 950

Indianola, Iowa KBAB 1490
 Indianola, La. KBAB 1490
 Indianola, Miss. WNLA 1380
 Indian Rocks Beach, Fla. WGNP 1520

Indio, Calif. KREO 1400
 Inglewood, Calif. KTYM 1460
 Inkster, Mich. WCHB 1440

International Falls, Minn. KGHS 1230
 KALN 1370

Iola, Kansas WION 1430
 Ionia, Mich. KCIC 800
 WSUI 910

Iowa City, Iowa KFIG 1510
 Iron Mt., Mich. WMIO 1480

Irontoale, Ala. WKLO 490
 Ironton, Ohio WJMS 630
 Ironwood, Mich. WIRV 1550
 Irvine, Ky. WISA 1890
 Isabella, P.R. WJPD 1240
 Ishpeming, Mich. WJAN 970

Islip, N.Y. WVIC 540
 Ithaca, N.Y. WTCO 1470
 WTRO 1470

Tuka, Miss. WYOM 1270
 Jackson, Ala. WTHG 1290
 Jackson, Mich. WIBM 1450
 WKHM 970

Jackson, Miss. WJCO 1510
 WJDX 620
 WJOS 1400
 WJXN 1450
 WJAQ 1550
 WOKJ 1590

Location C.L. Kc.

Jackson, Ohio WRBC 1300
 WSLJ 920
 Jackson, Tenn. WLMJ 1290
 WDXI 1310
 WJAK 1460
 WTJS 1390

Jackson, Wis. WYLO 540
 KSGT 1340
 Jackson, Wyo. KGMR 500
 Jacksonville, Ark. WJAX 930
 Jacksonville, Fla. WAPE 690
 WZOK 1320
 WIVY 1050
 WMBR 1460
 WOBS 1360
 WFDQ 600
 WQIK 1280
 WRHC 1400
 WJIL 1550
 WLDS 1180

Jacksonville, Ill. WJNC 1240
 WLAS 910
 Jacksonville, N.C. KEBE 1400

Jacksonville, Fla. Jacksonville Beh., Fla. WBIX 1010
 KEYJ 1400
 KSJB 600

Jamestown, N.Dak. WJTN 1240
 WKSN 1340

Jamestown, N.Y. WJTN 1240
 WJTN 1240

Jamestown, Tenn. WCLC 260
 Janesville, Wis. WCLO 1230

Jasper, Ala. WWWW 1360
 WARF 1240
 WITZ 990

Jasper, Ind. KTXJ 1350
 Jasper, Tex. KLIK 950
 Jefferson City, Mo. KWOS 1240

Jefferson City, Tenn. WJFC 1480
 Jeffersonville, Ind. WXVW 1450
 Jena, La. KCKW 1480
 Jennings, La. KJEF 1290
 Jerome, Idaho KART 400
 Jerseyville, Ill. WJBM 1480
 Jestup Ga. WBBR 1370
 John Day, Ore. KJDY 1400

Johnson City, Tenn. WJWC 910
 WETB 790
 WJES 250
 WJAC 350

Johnston, S.C. WARD 1490
 WCRO 1230
 WJOL 1340
 WJRC 1510
 WJLM 1350

Johnston, S.C. KTMK 1230
 KNEA 370

Joliet, Ill. KOTC 920
 Jonesboro, La. WJSO 1590
 Jonesboro, Tenn. KANV 1480
 Jonesville, La. WMBH 1450
 Joplin, Mo. KQYX 1560
 KFSS 1310
 KOD 1230
 KMBL 1450
 WDF 610

Junction, Tex. KJCK 1420
 June City, Kans. KINY 800
 Juneau, Alaska KJNO 630

Kailua, Hawaii KLEI 1130
 Kalamazoo, Mich. WKFR 1470
 WKLG 590
 WKLZ 1470
 WKMI 1360
 KGEZ 600
 KOFI 930

Kane, Pa. WADP 960
 Kankakee, Ill. WKAN 1320
 Kankopolis, N.C. WGET 1400
 WKRB 1460

Kans. City, Kans. CKCN 1340
 Kansas City, Mo. KCMO 810
 KMBC 980
 KPRS 1590
 WDF 610

Kendy-Karnes City, Texas WBB 710

Kealahou, Hawaii KAML 990
 KEKO 790

Kearney, Nebr. KGFV 1340
 KRNY 1460
 Keene, N.H. WKNE 1290
 WKBK 1220

Kelsa, Wash. KLOG 490
 Kemmerer, Wyo. KMER 950
 Kendallville, Ind. WAWK 1570
 Kennedy, Tex. KAML 990
 Kennett, Mo. KBOA 830
 KBXN 1540

Kennewick-Pasco-Richtard, Wash. KEPR 610
 KESL 1050

Kent, O. WKNT 1520
 Keokuk, Iowa KOKX 1310
 Kermit, Tex. KERB 600
 Kerrville, Tex. KERV 1230
 Kershaw, S.C. WKSC 1300
 Ketchikan, Alaska KTKN 930
 Kewanee, Ill. WKFI 1270
 Keyser, W.Va. WKYR 1270
 WKLP 1390

Key West, Fla. WKWF 1600
 WKIZ 1500

Location C.L. Kc.

Kilgore, Tex. KOGA 1240
 KILEN, Tex. KILEN 1560
 Kimball, Nebr. KIMB 1260
 King, N. C. WKTE 1090
 King City, Calif. KRKC 1490
 Kingman, Ariz. KAAA 1230
 Kings Mountain, N.C. WKMT 1240
 Kingsport, Tenn. WELS 1010
 WKPT 1550

Kingston, N.Y. WBAZ 1550
 WGHQ 920
 WKNY 1490

Kingstree, S.C. WDKD 1310
 Kingsville, Tex. KINE 1330
 Kingston, N.C. WELS 1010
 WFTC 960
 WISP 1230

Kirkland, Wash. KYAC 1460
 KNEB 1050
 KIRX 1450
 Kissimmee, Fla. WOSL 1220
 Kittanning, Pa. WACB 1360

Klamath Falls, Oreg. KAGO 1150
 KFLW 1450
 KLAB 960
 KNIA 1320

Knoxville, Iowa WBR 1240
 Knoxville, Tenn. WELI 1350
 WATE 620
 WKXV 900
 WNOX 990
 WROL 1490

Kokomo, Ind. WIOU 1350
 Koeselusk, Miss. WKOZ 1350
 Laconia, N.H. WNH 1350
 WEMJ 1490

LaCrosse, Wis. WKBH 1410
 WLXC 1490
 WKTY 580

Ladysmith, Wis. WLDY 1340
 Lafayette, Ga. WLF 1590
 Lafayette, Ind. WJBM 1480
 WAZY 1410

Lafayette, La. WBAA 920
 KPBL 1420
 KVOL 1330
 KKKW 1520

Lafayette, Tenn. WEEN 1460
 LaFollette, Tenn. WLA 1500
 Laidley, Oreg. LBLM 1450
 LaGrange, Ga. WLAG 1240
 WTRP 620

LaGrange, Ill. WTAQ 1300
 LaGrange, Tex. KVLG 1570
 LaJunta, Colo. KBZ 1400
 Lake Charles, La. KOU 1580
 KPLC 1470
 KAOK 1400

Lake City, Fla. WDSR 1340
 WGR 960

Lake City, S.C. WJOT 1260
 Lake Geneva, Wis. WLM 1590

Lakeland, Fla. WLAJ 430
 WNN 1230
 WWAB 1330

Lake Placid, N.Y. WIRD 920
 Lake Providence, La. KPLP 1050
 Lake Tahoe, Calif. KOWL 1490
 Lakeview, Oreg. KLET 1230
 Lake Wales, Fla. WIPC 1260
 Lakewood, Colo. KLAK 680
 Lakewood Center, Wash. KFHA 1480
 WLIZ 1380

Lake Worth, Fla. KLMR 920
 Lamar, Colo. KPT 650
 Lampasas, Tex. KCVL 450
 Lancaster, Calif. KAVL 610
 KBVM 1380

Lancaster, N.Y. WMMJ 1300
 Lancaster, Ohio WHOC 1320
 Lancaster, Pa. WGL 490
 WLN 1390

Lancaster, S.C. WLM 1360
 WAGL 1560
 KOVE 1390

Lander, Wyo. WRLD 1490
 Landett, Ala. WNPV 1440
 Lansdale, Pa. WLSH 1410
 Lansford, Pa. WLMS 1320
 Lansing, Mich. WJIL 1240
 WJMS 1240
 WIT 1910

Lapeer, Mich. WMP 1230
 WTHM 1530

LaPorte, Ind. WLOI 1540
 Laramie, Wyo. KLME 1490
 KOWB 1290

Laredo, Tex. KGN 1300
 KVOZ 1490

Larned, Kans. KAN 1510
 LaSalle, Ill. WLPO 1220
 LasCruces, N.Mex. KOBE 1450
 KGR 570

Las Vegas, Nev. KENO 1460
 KLA 1230
 KOR 1340
 KRN 920
 KL 1050
 KVEG 970

Las Vegas, N.Mex. KFJUN 1230
 Latrobe, Pa. WPKV 1570

Location C.L. Kc.

Laurel, Miss. WQTV 1570
 WTRA 1480
 WAM 1340

Laurens, S.C. WLAB 1600
 WNSL 1260
 WLBG 860

Laurinburg, N.C. WEWO 1080
 WLNC 1300
 KFUK 1250
 KLWN 1320

Lawrence, Kans. WCCM 800

Lawrence, Mass. Lawrenceburg, Tenn. WDXE 1370
 Lawrenceville, Ga. WLAB 1360
 Lawrenceville, Ill. WAKO 910
 Lawrenceville, Va. WLES 580
 Lawton, Okla. KSWO 1390
 KCO 1050

Leadville, Colo. KBBR 1230
 Leaksville, N.C. WLOE 1490
 Leavenworth, Kans. KCLO 1410
 Lebanon, Ky. WLB 1590
 Lebanon, Mo. KLWT 1230
 Lebanon, Oreg. KGAL 920
 Lebanon, Pa. WBBR 1270
 Lebanon, Tenn. WGO 900
 Leesburg, Fla. WLB 790
 WBL 1410

Leesburg, Va. WAGE 1290
 Leesville, La. KLLA 1570
 Leighton, Pa. WYNS 1150
 Leitchfield, Ky. WTL 1580
 Leiland, Miss. WES 1230

Le Mars, Iowa KLEM 1410
 Lemore, Calif. KLAN 1320
 KOAD 1240

Lenoir, N.C. WJRI 1340
 Lenoir, Tenn. WLIL 730

Leonardtown, Md. WKIK 1370
 Levelland, Tex. KXY 1260
 Levittown, Pa. WBCB 1400

Lewisburg, Pa. WUNS 1010
 Lewisburg, Tenn. WJIM 1490
 Lewiston, Idaho KRCL 1350
 KOZE 1300

Lewiston, Maine WCOU 1420
 WLAB 1490

Lewistown, Mont. WKO 1230
 Lewistown, Pa. WKVA 920
 WMR 1490

Loxington, Ky. WFLP 630
 WBLG 1300
 WVLK 590

Lexington, Miss. WXN 150
 Lexington, Mo. KXO 1230

Lexington, Nebr. KRNV 1010
 Lexington, N.C. WBUX 1440
 Lexington, Tenn. WDXL 1490
 Lexington, Va. WREL 1450
 Lexington Pk., Md. WPXT 920

Libby, Mont. KLCB 1230
 WLA 1490

Liberal, Kans. KSCB 1270
 Liberty, Ky. WPHN 1560
 Liberty, N.Y. WVOS 1240
 Liberty, Tex. KFAZ 1050
 Lihu, Hawaii KTOH 490
 Lima, Ohio WIMA 1150
 WCT 940

Lincnln, Ill. WPRC 1370
 Lincoln, Me. WLKN 1450
 Lincoln, Nebr. KFOR 1240
 KLIN 1400
 KLSM 1480

Lincolnton, N.C. KNBE 1530
 WLI 1050

Linton, Ind. WBT 1600
 Litchfield, Ill. WSMI 1540
 Litchfield, Minn. KLFD 1410
 Little Falls, Minn. KLTF 960
 Little Falls, N.Y. WLFH 1230
 Littlefield, Tex. KZCN 1490
 Little Rock, Ark. KARK 920
 KALO 1250

LITTLETON, Colo. KORY 1010
 KAAY 1090
 KVL 1050

LITTLETON, N.H. WLTN 1400
 Live Oak, Fla. WNER 1250

Livingston, Mont. KFR 1340
 Livingston, Tenn. WIV 910
 Livingston, Tex. KEX 1440
 KVLL 1220

Lock Haven, Pa. WBPZ 1230
 Lockport, N.Y. WUSJ 1490
 Lodi, Calif. KQVR 1570
 Logan, Utah KVVU 610
 KSTJ 1300

Logan, W.Va. WLOG 1230
 WLOG 1290

Logansport, Ind. WSA 1280
 Lompoc, Calif. KKOK 1410
 KLOM 1330
 KNEZ 960
 KLGN 1300

London, Ky. WFTG 1400
 Long Beach, Calif. KLO 1280
 KGER 1390

Longmont, Colo. KLMO 1050
 Long Prairie, Minn. KEYL 1400

Location	C.L.	Kc.	Location	C.L.	Kc.	Location	C.L.	Kc.	Location	C.L.	Kc.
Longview, Tex.	KFRQ	1370	Marianna, Fla.	WTYS	980	Mexico, Mo.	IXEO	1340	Montgomery, W.Va.	WHHY	1440
Longview, Wash.	KLUE	1280	Marietta, Ga.	WTOT	980	Mexico, Pa.	WJUN	1220	Monticello, Ark.	WHGY	800
Lookout Mtn., Tenn.	KEED	1400	Marietta, Ohio	WFON	1320	Miami, Ariz.	KKRQ	1340	Monticello, Ky.	WRMA	950
Lorain, Ohio	KBAN	1270	Marietta, Ohio	WBIE	1080	Miami, Fla.	WQBS	710	Montpelier-Barre, Vt.	WMON	1340
Loris, S.C.	WFLI	1070	Marine City Mich.	WMOA	1490	Midland, Tex.	WIOD	610	Montrose, Colo.	WSK1	520
Los Alamos, N. Mex.	WWRJ	1380	Marion, Ind.	WBRJ	910	Midland, Tex.	WFAB	990	Montrose, Pa.	WPEC	1240
Los Angeles, Calif.	WLSV	1570	Marion, N.C.	WDOG	1590	Midland, Tex.	WBMM	1220	Moorhead, Minn.	WHIP	1350
	KRSN	1490	Marion, Ohio	WMAN	570	Midland, Tex.	WAME	1260	Moorhead, Ky.	WVOR	1280
	KABC	790	Marion, Ohio	WJAM	1310	Middleport-Pomeroy, Ohio	WML1	1140	Morgan City, La.	WMEL	740
	KFI	640	Marion, S.C.	WGGV	1350	Middleport-Pomeroy, Ohio	WFMU	790	Morganfield, Ky.	WMSK	1550
	KHJ	830	Marion, Va.	WBAT	1400	Middleport-Pomeroy, Ohio	WMFG	1420	Morgantown, N.C.	WMNC	1430
	KFWB	980	Marked Tree, Ark.	WMRI	860	Middlesboro, Ky.	WMPO	1390	Morgantown, W.Va.	WVAJ	1440
	KGFJ	1230	Marksville, La.	WBRM	1250	Middlesboro, Ky.	WMJK	560	Morris, Ill.	WCGL	1800
	KFCAC	1330	Marlborough, Mass.	WBRN	1490	Middletown, Conn.	WCNJ	1150	Morris, Ill.	WCST	1550
	KLAC	570	Marquette, Mich.	WATP	1490	Middletown, N.Y.	WALL	1340	Morris, Minn.	WCBS	1230
	KMPC	710	Marshall, Mich.	WVEE	1019	Middletown, Ohio	WPFJ	910	Morrilton, N.J.	WMTR	1250
	KNX	1070	Marshall, N.C.	WVOT	133	Midland, Mich.	WMON	1490	Morrilton, Tenn.	WCRK	1150
	KPPI	1540	Marshalltown, Iowa	WVMT	133	Midland, Tex.	KCRS	550	Morton, Tex.	WMTN	1800
	KGBS	1020	Marshfield, Wis.	KFJB	1230	Midland, Tex.	KJBC	1150	Morton, Tex.	KRAN	820
	KRKD	1150	Marshallville, Ga.	KDFB	1410	Midland, Tex.	KWEL	1440	Moscow, Idaho	KVOM	800
Los Banos, Calif.	KLBS	1330	Marshallville, Va.	KWVJ	1410	Midland, Tex.	KASB	1510	Moss Lake, Wash.	KSEAM	1470
Louisburg, N.C.	WYRN	1480	Marysfield, Calif.	WDLB	1450	Midland, Tex.	KATJ	1340	Moss Point, Miss.	WACY	1460
Louisville, Ga.	WPHE	1429	Marysville, Conn.	WGDM	1410	Midland, Tex.	WFFB	910	Moulton, Ala.	WCBZ	538
Louisville, Ky.	WAVE	970	Marysville, Mo.	WPEM	1340	Midland, Tex.	WFCR	1150	Moultrie, Ga.	WMGA	1400
	WKY	790	Marysville, Va.	WHEE	1370	Midland, Tex.	KCRS	550	Moultrie, Ga.	WMTM	1300
	WHAS	840	Marystown, Nfld. Can.	WHEE	1450	Middleville, Ga.	WMVG	1450	Moundsville, W. Va.	WVCO	1370
	WKLO	1080	Marysville, Calif.	CHCM	560	Middleville, Ga.	WMVG	1450	Mountain Grove, Mo.	KLRS	1350
	WINN	1240	Marysville, Ga.	KMYC	1410	Millersburg, W. Va.	WMVG	1450	Mountain Home, Ark.	KTLO	1490
	WKYW	900	Marysville, Ind.	KNDV	1370	Millersburg, W. Va.	WVPM	1340	Mt. Airy, N.C.	KFLI	1240
	WLou	1350	Marysville, N.C.	WVAP	1400	Milford, Conn.	WFIF	1500	Mt. Airy, N.C.	WPAQ	740
	WMT	620	Marysville, N.C.	WVAP	1400	Milford, Del.	WFIS	930	Mt. Airy, N.C.	WSYD	1300
Louisville, Miss.	WLSM	1270	Mason City, Iowa	KGLG	1300	Milford, Del.	WWSB	930	Mt. Carmel, Ill.	WMCB	1360
Loveland, Colo.	WLYN	1370	Mason City, Iowa	KRIB	1490	Milford, Mass.	WMRC	1490	Mt. Clemens, Mich.	WMBR	1480
Loves Park, Ill.	WLUV	1520	Massena, N.Y.	KSMN	1010	Milledgeville, Ga.	WMRG	1450	Mt. Dora, Fla.	WVGT	1580
Lovington, N. Mex.	WLEA	630	Massillon, Ohio	WSTS	1050	Millington, Tenn.	WMVG	1450	Mt. Holly, N.J.	WJJJ	1490
Lowell, Mass.	WCAP	980	Matawan, W. Va.	WTFI	980	Millington, Tenn.	WMGN	1380	Mt. Jackson, Va.	WSIG	790
	WLLH	1400	Mattoon, Ill.	WHJC	1360	Millinocket, Me.	WMKR	1240	Mt. Kissel, N.Y.	WVJO	1340
	KCBJ	1590	Mattoon, Ill.	WLBH	1170	Millville, N.J.	WVMB	1440	Mt. Olive, Mo.	WDDS	1430
	KDAY	1080	Mauston, Wis.	WRJC	1270	Milton, Fla.	WEBS	1330	Mt. Pleasant, Mich.	WCEN	1150
	KLEB	1000	Mayaguez, P.R.	WVJW	710	Milton, Pa.	WSRA	1490	Mt. Pleasant, Tex.	KIMP	960
	KFYD	790	Mayfield, Ky.	WVJW	710	Milton, Pa.	WMRP	1370	Mt. Pleasant, Tex.	KVSD	620
	KLLL	1460	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
	KSEL	950	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
	WHHT	1440	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Lucedale, Miss.	WKLA	1450	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Ludington, Mich.	KRBA	1340	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Lufkin, Tex.	KTRF	1420	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Lumberton, N.C.	WASB	580	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
	WTSB	1430	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Luray, Va.	WRAA	1330	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Lynchburg, Va.	WLVA	590	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
	WDMS	1320	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
	WVOD	1390	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
	WBRG	1050	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Lynn, Mass.	WAFX	1400	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Lyness, Ga.	WBBT	1340	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Macomb, Ill.	WKAI	1510	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Macon, Ga.	WBML	1240	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
	WCRY	900	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
	WIBB	1280	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
	WMAZ	940	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
	WVFX	1400	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Macon, Miss.	WVWJ	1340	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Madawaska, Me.	WSJR	1230	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Madera, Calif.	KHOT	1250	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Madill, Okla.	KMAD	1550	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Madison, Fla.	WMAF	1230	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Madison, Ga.	WYTH	1250	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Madison, Ind.	WORX	1270	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Madison, S.D.	KIAK	1390	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Madison, Tenn.	WENO	1430	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Madison, Wis.	WHA	750	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
	WIBA	1310	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
	WISM	1480	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
	WKOW	1070	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Madisonville, Ky.	WFNV	1370	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
	WTL1	1310	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Magee, Miss.	WSJC	790	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Magnolia, Ark.	KVMA	690	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Makawao, Hawaii	KNUI	1310	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Malden, Mo.	KTCB	1470	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Malone, N.Y.	WICY	1490	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Malvern, Ark.	KBOK	1310	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Manassas, Va.	WPRW	1465	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Manati, P.R.	WMNT	1590	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Manchester, Conn.	WVNF	1230	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Manchester, Ga.	WVDR	1370	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Manchester, Ky.	WVXL	1450	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Manchester, N.H.	WFEA	1370	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
	WGBR	610	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
	WKBZ	1250	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Manchester, Tenn.	WMSR	1320	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Manhattan, Kans.	KSAC	580	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
	KMAN	1350	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Manistee, Mich.	WNTE	1340	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Manitou Springs, Colo.	KCMS	1490	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Manitowoc, Wis.	WCUB	980	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
	WOMT	1240	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Mankato, Minn.	KYSM	1230	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
	KTOE	1420	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Manning, S.C.	WYMB	1410	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Mansfield, La.	KDXI	1360	Mayfield, Ky.	WVJW	710	Milton, Pa.	WVLC	1380	Mt. Pleasant, Tex.	WVST	1150
Mansfield, Ohio	WMAN	1400	Mayfield, Ky.								

WHITE'S RADIO LOG

Location	C.L.	Kc.	Location	C.L.	Kc.	Location	C.L.	Kc.
Norfolk, Va.	WTAR	790	Ormond Beh., Fla.	WQXJ	1380	WDAS	1480	
	WGMS	1050	Oronono, Idaho	KLER	950	WFIL	560	
	WNGR	1230	Oroville, Calif.	KADR	840	WFLN	900	
	WRAP	830	Ortonville, Minn.	KDIO	1350	WFMT	1340	
Normal, Ill.	WIOK	1440	Osage Beh., Mo.	KRMS	1510	WIBG	990	
Norman, Okla.	WNAD	640	Oseola, Ark.	KOSE	860	WIP	610	
	KNOR	1400	Oshkosh, Wis.	WOSH	1490	WJMJ	1540	
Norrinston, Pa.	WNAR	1110	Oskaloosa, Iowa	KBOE	740	WPEN	950	
N. Adams, Mass.	WNNB	1230	Oswego, N.Y.	WAGO	1440	WRCV	1080	
N. Augusta, S.C.	WGUS	1380	Othello, Wash.	KDSC	1400	WTEF	850	
	WFGM	1600	Ottawa, Mich.	WDMC	980	WPHB	1260	
	WTHB	1550	Ottawa, Ill.	WCYJ	1450	Phillipsburg, Pa.	KKAN	1490
North Bend, Oreg.	KFIR	1340	Ottawa, Kans.	KOFO	1220	KIFN	860	
North Charleston, S.C.	WNCG	910	Ottumwa, Iowa	KBIZ	1240	KXIV	1400	
Northampton, Mass.	WHMP	1400		KLEE	1480	KHAT	1480	
	WALC	770	Owatonna, Minn.	KRFO	1390	KHET	1480	
Northfield, Minn.	WKDC	1300	Owego, N.Y.	WEOB	1330	KKCB	1010	
N. Little Rock, Ark.	KDCE	1380	Owensboro, Ky.	WVJ3	1420	KOY	550	
	KXLR	1150		WVJ5	1420	KOOL	960	
North Platte, Nebr.	KJLT	970	Owosso, Mich.	WOAP	1080	KPHO	910	
	KNOP	1410	Oxford, Miss.	WSUH	1420	KQUE	740	
	KODY	1240	Oxford, N.C.	WOXF	1340	KRIZ	1230	
No. Syracuse, N.Y.	WSOQ	1220	Oxnard, Calif.	KOXR	910	KRAR	620	
N. Vernon, Ind.	WGOH	1460	Ozak, Ala.	WOZK	900	WTFF	1360	
No. Wilkesboro, N.C.			Pateucah, Ky.	WDXR	1560	WPID	1280	
	WKBC	810		WPMT	570	Piedmont, S.Dak.	KGFX	680
Norton, Kans.	KNBI	1530		WPAD	1450	KCCR	1590	
Norton, Va.	WNVA	1350	Page, Ariz.	KPGE	1340	WLSI	900	
Norwalk, Conn.	WNLK	1350	Panokee, Fla.	WRIM	1250	WPKE	1240	
Norwich, Conn.	WICH	1310	Painesville, Ohio	WPVL	1460	WGLA	1090	
Norwich, N.Y.	WGHN	970	Paintsville, Ky.	WSIP	1490	KALF	1270	
Oakdale, La.	KREH	900	Palatka, Fla.	WPFP	1280	KOTN	1490	
Oakes, N. Dak.	KEYD	1220		WVFF	800	KCAT	1530	
Oak Grove, La.	KWCL	1280	Palestine, Tex.	KNET	1450	KPBA	1590	
Oak Hill, W.Va.	WOAY	860	Palm Beh., Fla.	WQXT	1340	WCMP	1350	
Oakland, Calif.	KEWB	910	Palm Sprrgs., Calif.	KCMJ	1010	WF50	570	
	KABL	960		KDES	920	WMLF	1230	
	KDIA	1310		KPAL	1450	WVW	1490	
Oakland Md.	WMSG	1050	Palmdale, Calif.	KUTY	1470	KLOH	1050	
Oakland Park, Fla.	KOPK	1520	Palo Alto, Calif.	KUTZ	1220	PPTW	1570	
Oak Park, Ill.	WOPA	1490	Pampa, Tex.	KPDN	1340	KKIS	990	
Oak Ridge, Tenn.	WATO	1290		KHHH	1230	KOAM	860	
Ocala, Fla.	WMOP	900	Panama City, Fla.	WDLP	1490	KSEK	1340	
	WTMC	1290		WPCF	1580	KKJK	1440	
	WKOS	1370	Panama City Beach, Fla.			KQV	1410	
Ocean City, Md.	WETT	1590		WTHR	1480	WAMO	860	
Ocean City, N. J.	WYKP	1520		WTCM	1290	WJAS	1320	
Ocean City, Somers Pt., N.J.			Paoli, Ind.	WVAK	1560	WPIT	730	
	W5LT	1520	Paradise, Calif.	KNLG	930	WRYT	1250	
Oceanlake, Oreg.	KBCB	1380	Paragould, Ark.	KDRS	1490	WVEE	1080	
Oceanside, Calif.	KUDE	1320	Paris, Ark.	KCCL	1460	WSW	970	
Ocilla, Ga.	WSIZ	1380	Paris, Ill.	WPRS	1440	WBBB	1580	
Odessa, Tex.	KECK	920	Paris, Ky.	WKLX	1440	WBEC	1420	
	KOSA	1230	Paris, Tenn.	WTPR	710	WBRK	1340	
	KOYL	1310	Paris, Tex.	KFTV	1250	WP15	1540	
	KRIG	1410	Parkersburg, W.Va.	WCEF	1050	WERA	1590	
	KOEL	950		WPAR	1450	Plainview, Tex.	KVOP	1400
Delwain, Iowa	KOGA	930		WTAP	1430	Plant City, Fla.	KWKA	1410
Ogallala, Nebr.	KLO	1430	Park Falls, Wis.	WPPF	1450	Platteville, Wis.	WSW	1590
Ogden, Utah	KANN	1250	Park Rapids, Minn.			Plattsburg, N.Y.	WEAW	960
	KSVN	730		KPRM	1240	WIRY	1340	
Ogdensburg, N.Y.	KVXG	1490	Parsons, Kans.	KLKC	1540	KBP3	1380	
Oil City, Pa.	W5LB	1400	Pasadena, Cal.	KPPC	1240	Pleasantville, N.J.	WOND	1400
Okkeehobee, Fla.	WOKC	1570		KRLA	1110	Plymouth, Ind.	WPLM	1450
Okla. City, Okla.	KBYE	890		KWKW	1800	Plymouth, Mass.	WPNC	1470
	KLPR	1140	Pasadena, Tex.	KLVL	1480	Plymouth, N.C.	WPNH	1300
	KOGY	1340		KIKK	650	Plymouth, N.H.	WP1Y	1420
Oneonta, N.Y.	KOMA	1730	Pascagoula-Moss Point, Miss.	WPMP	1580	Plymouth, Wis.	WPLY	1420
Ontario, Calif.	KASK	1510	Pasco, Wash.	KORD	910	Pocatontos, Ark.	KPCC	1420
Ontario, Oreg.	KSRV	1380	Paso Robles, Calif.	KGRS	1340	Keesele, Idaho	KSEI	930
Opelika, Ala.	WPFO	1400	Patechogue, L.I., N.Y.	KPRL	1230		KWK	1240
Opelousas, La.	KSLO	1230		WALK	1370	KSN	1230	
Opp, Ala.	WAMI	860		WPEC	1580	Pocmonke City, Md.	WDMV	540
Opportunity, Wash.	KZUN	630	Paterson, N.J.	WPAT	950	Pomona, Calif.	KWOW	1600
Orange, Mass.	WGAT	1390	Pauls Valley, Okla.	KVHL	1470		KKAR	1220
Orange, Tex.	WGMT	1600	Pawhuska, Okla.	KOSG	1500	Pompano Beach, Fla.	WL0D	980
Orange, Va.	WJMA	1340	Pawtucket, R.I.	WXTR	550		WLD	1470
Orangeburg, S.C.	WORG	1580	Pearsall, Tex.	KVWG	1280	Ponca City, Okla.	WBZ	1230
	WTND	920	Pecos, Tex.	KIUN	1400	Ponce, P.R.	WPRP	910
Orange Park, Fla.	WAYR	350	Peekskill, N.Y.	WLIA	1420		WEUC	1420
Oregon City, Ore.	KYMN	1520	Pekin, Ill.	WSIV	140	WVAB	550	
Orlando, Fla.	WDBO	580	Pell City, Ala.	WFHK	1430	WLEO	1170	
	WH00	990	Pendleton, Oreg.	KTIX	1240	W150	1260	
	WH1Y	1270		KUBE	1050	Pontiac, Mich.	WPON	1460
	WLOF	950		KUMA	1290	Pontotoc, Miss.	WSP	1440
	WKIS	740	Pennington Gap, Va.			Pooft, Ind.	WVAK	1560
				WSWV	1570	Poplar Bluff, Mo.	KWOC	930
			Pensacola, Fla.	WBOF	980		KLID	1340
				WBSR	1540	Poplarville, Miss.	WRPM	1530
				WMEL	610	Portage, Pa.	WMLL	1470
				WNYV	1230	Portage, Wis.	WPDR	1350
				WCOA	1370	Portageville, Mo.	KMIS	1050
			Peoria, Ill.	WAAP	1350	Portales, N. Mex.	KEM	1450
				WMBD	1470	Port Angeles, Wash.	KAPY	1000
				WIRL	1290		KONP	1450
				WPED	1020	Port Arthur, Tex.	KOLE	1340
			Perry, Fla.	WP1Y	1400		KPAC	1250
				WGKR	1310	Porterville, Calif.	KTIP	1450
				WPCA	980	Port Hueneue, Calif.	KACY	1320
				KDLS	1310	Port Huron, Mich.	WHLS	1450
			Perry, Iowa	KEYE	1400	Port Jervis, N.Y.	WDLG	1490
			Perryton, Tex.	WARU	1600	Port Lavaca, Tex.	KGUL	1560
			Peru, Ind.	KTOB	1490	Portland, Ind.	PGW	1440
			Petaluma, Calif.	WSSV	1240	Portland, Maine	WC5H	970
			Petersburg, Va.	WMBN	1340		WGB	560
			Petoskey, Mich.	WPNX	1460		WPO	1490
			Phenix City, Ala.	WH0C	1490	Portland, Oreg.	KBEV	1450
			Philadelphia, Miss.	WH0C	1490		KBEV	1010
			Philadelphia, Pa.	WCAU	1210		KLIQ	1290
							KEX	1190

Location	C.L. Kc.	Location	C.L. Kc.	Location	C.L. Kc.	Location	C.L. Kc.
KGW 620			KVCV 600	Ronceverte, W.Va.	WRON 1400		KSXX 630
KOIN 970		Red Bluff, Calif.	KVIP 540	Roseau, Minn.	KRWB 1410		KWHN 860
KPAM 1410		Redfield, S. Oak.	KBL 1490	Roseburg, Oreg.	KRRN 1450		KWIG 1570
KPDQ 800		KFOB 1380	KFB 1380		KREN 1240	San Angelo, Tex.	KTGO 1840
KPOJ 1330		Redlands, Calif.	KCAL 1410		KRXL 1250		KGKL 960
KWJJ 1080		Red Lion, Pa.	WGCB 1440		KYES 950		KPEP 1420
KXL 750		Red Lodge, Mont.	KFRB 1450	Rosenberg, Tex.	KFRD 980		KWFR 1260
Port Neches, Tex.	KPNG 1150	Redmond, Oreg.	KPRB 1250	Roservelt, N.M.	KRDD 1320	San Antonio, Tex.	KAPE 1480
Portsmouth, N.H.	WBXB 1380	Red Wing, Minn.	KGUE 1240	Rosville, Ga.	WRIP 980		KBAT 680
	WEFB 750	Redwood Falls, Minn.	KFB 1450	Roswell, N.Mex.	KGB 1450		KBER 1840
Portsmouth, Ohio	WPAY 1400		KLGR 1490		KBP 910		KCOR 1350
	WNXT 1260	Reedsburg, Wis.	WRDB 1400		KBIM 1300		KITE 930
Portsmouth, Va.	WHIH 1400	Reedsport, Oreg.	KRAF 1470		KRDD 1320		KUKA 1250
	WPMH 1010	Reidsville, N.C.	WFRC 1460		KRTK 960		KUBO 1310
	WAVY 1350		WREV 1220	Rexboro, N.C.	WRXO 1450		KMAC 630
Port Washington, Wis.	WGLB 1560	Remsen, N.Y.	WREM 1480	Royal Oak, Mich.	WEXL 1340		KONO 860
	WFLB 1560	Reno, Nev.	KOH 630	Ruby, N. Dak.	KGA 1450		KOTA 1280
Post, Tex.	KPDS 1370		KBET 1340	Ruidoso, N.Mex.	KRRR 1440		WOAL 1200
Poteau, Okla.	KLCO 1280		KOLO 920	Rumford, Me.	WRUM 790	San Bernardino, Calif.	
Potomac-Cabin John, Md.			KONE 1450	Rupert, Idaho	KAYT 970		KCKC 1350
	WXLN 950		KCBN 1280	Rushton, La.	KRUS 1490		KFXM 590
Potosi, Mo.	KYRO 1290	Rensselaer, Ind.	WRIN 1500	Rusk, Texas	KTLU 1580		KRNO 1240
Potsdam, N.Y.	WPDW 1470	Renon, Wash.	KREN 1300	Russell, Kans.	KFRD 990		KMLN 1290
Pottstown, Pa.	WPAZ 1370	Rexburg, Idaho	KRXK 1230	Russellville, Ala.	WWRR 990	Sandersville, Ga.	WSNT 1400
Pottsville, Pa.	WPAM 1450	Rhineland, Wis.	WOBT 1240	Russellville, Ark.	KXRI 1490	San Diego, Calif.	KCBQ 1170
	WPPA 1360	Rice Lake, Wis.	WJMC 1240	Russellville, Ky.	WRUS 610		KFMB 540
Poughkeepsie, N.Y.	WEOK 1390	Richfield, Utah	KSVQ 980	Rutland, Vt.	WHWB 1000		KOGO 600
	WKIP 1450	Richland, Wash.	KALE 960		WSYB 1380		KGB 1360
Powell, Wis.	KPOW 1260	Richland, Wis.	WROR 1450	Sacramento, Calif.	KGRS 1320		KSON 1240
Poyetta, Wis.	WBU 1240	Richlands, Va.	WRIC 540		KMS 1380	Sandpoint, Idaho	KSDT 1330
Prairie du Chien, Wis.		Richmond, Ind.	WKBV 1490		KJAY 1430	Sand Spring, Okla.	KTOW 1340
	WPRE 980		WHOM 930		KRAK 1140	Sandusky, Ohio	WLEC 1450
Pratt, Kan.	KWNS 1290	Richmond, Ky.	WEKY 1340	Safford, Ariz.	KROY 1240	San Fernando, Calif.	KGIL 1260
Prescott, Ariz.	KYCA 1490	Richmond, Va.	WANT 990		KXOA 1470	Sanford, Fla.	WTRR 1400
	KENT 1340		WBLI 1480		KGLU 1480		WSFR 1360
	KNOT 1450		WBOY 1340	Sag Harbor, N.Y.	WANG 1260	Sanford, Me.	WSME 1260
Prescott, Ark.	KTPA 1370		WLEE 1490	Saginaw, Mich.	WLNK 1210	Sanford, N.C.	WWSF 1050
Presque Isle, Me.	WAGM 950		WEET 1320		WSAM 1400	San Francisco, Calif.	
	WEGP 1390		WMBG 1380		WSGN 790		KFCR 610
Preston, Idaho	KPST 1340		WRNL 1140	St. Albans, Vt.	WWSR 1420		KCBS 740
Prestonsburg, Ky.	WPRT 960		WRVA 910	St. Albans, W.Va.	WKLC 1300		KFAK 1100
	WDQC 1310		WXGI 950	St. Augustine, Fla.	WFQY 1240		KGO 810
Price, Utah	KOAL 1230		WVVA 1280		WGFB 680		KNEB 1160
Priehard, Ala.	WTOH 1490	Richwood, W.Va.	KRCK 1360	St. Charles, Mo.	KADY 1460		KKHJ 1530
Prince Albert, Sask.	KCBI 900	Ridgecrest, Calif.	KLOA 1240	St. Cloud, Minn.	KFAM 1450		KSAY 1010
Princeton, Ill.	WZOE 1490		KWBG 1430		WNJ 1240		KSFO 560
Princeton, Ind.	WRAY 1250	Ridgeland, S.C.	WUNO 1320	St. Genevieve, Mo.	KSGM 1340		KSQL 1430
Princeton, Ky.	WPKY 1580	Rio Piedras, P.R.	WRAI 1190	St. George, S.C.	WQIZ 1300		KYA 1260
Princeton, N.J.	WHWF 1350		WRA 1280	St. George, Utah	KDX 1450	San Gabriel, Cal.	KAIL 1430
Princeton, W.Va.	WLOH 1490	Ripley, Miss.	WTRB 1570	St. Helen, Mich.	WVIC 1380	San German, P. R.	WRIS 1060
Prineville, Oreg.	KRCO 690	Ripley, Tenn.	WCWC 1600	St. Helens, Oreg.	KOHI 1600	Sanitoba, Miss.	WJUD 1580
Prosser, Wash.	KARY 1310	Ripon, Wis.	WRIV 1390	St. Johns, Mich.	WJUD 1580	San Jose, Calif.	KLOK 1170
Providence, R.I.	WEAN 790	Riverhead, N.Y.	WAPC 1570	St. Johnsbury, Vt.	WTWN 1340		KLIV 1590
	WHIM 1110	Riverside, Calif.	KPRO 1440	St. Joseph, Mich.	WSJM 1400		KEEN 1370
	WICE 1290		KAC 1570	St. Joseph-Benton Harbor, Mich.	WFEB 1060	San Juan, P.R.	KXRX 1500
	WJAR 920	Riverton, Wyo.	KVOW 1350		KFRD 890		WAPA 680
	WKW 990	Riviera Beach, Fla.	WHEW 1600	St. Joseph, Mo.	KKJO 1550		WHOA 870
	WPRO 630	Roanoke, Ala.	WELR 1360		KKJN 1270		WAC 740
	WRB 1220	Roanoke, Va.	WDBJ 960	St. Louis, Mo.	KATZ 1600		WIPR 940
Provo, Utah	KIXX 1400		WRIS 1410		KMDX 1120		WKAG 580
	KEYY 1450		WHYE 910		KSD 550		WKVM 810
	KOVO 960		WROV 1240		KSTL 690		WKYN 630
Pryor, Okla.	KOLS 1570	Roanoke Rapids, N.C.	WSLS 610		KWOP 630		WITA 1140
Pueblo, Colo.	KOZA 1230		WCBT 1230		WWEV 770	San Luis Obispo, Calif.	
	KAPI 690		WCMC 1370		WIL 1430		KATY 1340
	KCSJ 590	Roaring Sprgs., Pa.	CHRL 910		KXEN 1010		KSLY 1400
	KFEL 970		WTAY 1570	St. Louis Park, Minn.	KRSI 950		KVEC 920
	KKAM 1350	Roberval, Que.	KROB 500	St. Mary's, Pa.	WBJ 1900	San Marcos, Tex.	KCNV 1470
	KPUB 1480	Robinson, Ill.	KROC 1340	St. Paul, Minn.	KDWB 630	San Mateo, Calif.	KOFY 1050
Pulaski, Tenn.	WKSR 1420	Roctown, Tex.	KFAV 1520		WMIN 1400	San Rafael, Calif.	KTFM 1510
Pulaski, Va.	WPUL 1590	Rochester, Minn.	KWEB 1270		WCCO 830	San Saba, Tex.	KBAL 1410
Pullman, Wash.	KWSC 1250		KOLM 1320	St. Peter, Minn.	KRBI 1310	San Sebastian, P.R.	
	KOFE 1150	Rochester, Minn.	KWEB 1270		KRBI 1310		WFBA 1460
Punta Gorda, Fla.	WCCF 1580	Rochester, N.H.	WNNH 930	St. Peter, Minn.	WRPN 680	Santa Ana, Calif.	KWIZ 1480
Punxsutawney, Pa.	WPME 1540	Rochester, N.Y.	WBFB 950	St. Petersburg, Fla.	WSUN 620	Santa Barbara, Cal.	KDB 1490
Putnam, Conn.	WINY 1350		WHAM 1180		WCLY 1380		KGUD 990
Puyallup, Wash.	KAYE 1450		WHAM 1180		WLCY 380		KIST 1340
Quannah, Tex.	KOLJ 1150		WHEC 1460	St. Petersburg Beach, Fla.	WILZ 1590		KTMS 250
Quantico, Va.	WQVA 1530		WRVM 680		WGGO 1590	Santa Clara, Calif.	KACL 1290
Quincy, Calif.	KQCY 500		WSEY 1370	Salamanca, N.Y.	WJBD 1350		KGBA 1430
Quincy, Fla.	WCNH 1230		WOC 1280	Salem, Ill.	WJBS 1590	Santa Cruz, Calif.	KSCO 1080
Quincy, Ill.	WGEN 1440		WRRO 1330	Salem, Ind.	WLSM 1220	Santa Fe, N.Mex.	KTRC 1400
	WTAD 930		WJRL 1150	Salem, Mass.	WESX 1240		KVSF 1260
Quincy, Mass.	WJDA 1300	Rock Hill, S.C.	WRHI 1340	Salem, Mo.	KSMO 1340	Santa Maria, Cal.	KHER 1690
Quincy, Wash.	KPOR 1370		WTYC 1150	Salem, Oreg.	KSML 1390		KSMA 1240
Quitman, Ga.	WSFB 1490	Rockingham, N.C.	WAYN 900		KAPT 1220		KSEE 1480
	WRAC 1460	Rock Island, Ill.	WBFB 1270		KBZY 1490	Santa Monica, Cal.	KDAY 1580
Racine, Wis.	WRJN 1400	Rockland, Maine	WRKD 1450	Salom, Va.	KGAY 1430	Santa Paula, Calif.	KSPA 1400
Radford, Va.	WRAD 1460	Rockmart, Ga.	WPLK 1220	Salida, Colo.	WRH 1480	Santa Rosa, Calif.	KSPO 1350
Raeford, N.C.	WSHB 1400	Rock Springs, Wyo.	KVRS 1360	Salina, Kans.	KLH 1150		KVRE 1460
Raleigh, N.C.	WKJX 850	Rockville, Md.	WINX 1600		KCTY 900		KJAX 1150
	WNOH 1550	Rockwood, Tenn.	WRKH 580	Salinas, Calif.	KISI 910	Santa Rosa, N.Mex.	KSYX 1420
	WLF 690	Rocky Ford, Colo.	KAVI 1320		KDON 1480	Sapulpa, Okla.	KREK 1550
	WLLF 570	Rocky Mount, N.C.	WCEC 810	Salinas, Calif.	KSBW 1380	Saranac Lake, N.Y.	WNBZ 1240
	WRAL 1240		WEED 1390	Salinas, Calif.	KCTY 900-1000	Sarasota, Fla.	WKXY 930
Ralls, Tex.	KCLR 1530		WRMT 1490	Saline, Mich.	WOIB 1290		WSAF 1220
Rantoul, Ill.	WRTL 1460		WKWS 1290	Salisbury, Md.	WBOG 960		WSFS 1450
Rapid City, S.Dak.	KOTA 1380	Rocky Mount, Va.	WYTI 1570		WCO 1320		WHD 1280
	KIMM 1150	Rogers, Ark.	KAMO 1390	Salisbury, N.C.	WDY 1470	Saratoga, N.Y.	WSPN 900
	KBSD 1340	Rogers City, Mich.	WHAK 960		WSTP 1490	Saratoga Springs, N.Y.	WKAJ 900
	KEJU 920	Rogersville, Tenn.	WRGS 1370	Salmon, Idaho	WSAT 1280		WVAL 800
	KRTN 1400	Rolla, Mo.	KCLU 1590	Salt Lake City, Utah	KSRA 960		KALL 810
Raton, N.Mex.	RATN 1400	Rome, Ga.	WLAQ 1410		KAL 1320	Sault Ste. Marie, Mich.	WSOO 1230
Ravenswood, W.Va.	RMV 1360		WRGA 1470		KLUB 870	Savannah, Ga.	WEAS 900
Rawlins, Wyo.	KRAL 1240		WRM 710		KNAK 1280		WEAS 900
Raymond, Wash.	KAPA 1340		WKAL 1450		KSQ 1160		WSA 630
Raymondville, Tex.	KSX 1240		WRNY 1350		KSP 1370		WSGA 1400
Rayville, La.	KRIH 990						
Reading, Pa.	WEEU 850						
	WHUM 1240						
	WRAW 1340						
Redding, Calif.	KRDG 1230						
	KAHR 1380						
	KQMS 1400						

WHITE'S RADIO LOG

Location	C.L.	Kc.	Location	C.L.	Kc.	Location	C.L.	Kc.
		KMNS 620	Stuart, Va.	WHEO 1270		Toledo, Ohio	WNES 630	
		KTRI 1470	Sturgeon Bay, Wis.	WDOR 910		WUHO 1470		
Sioux Falls, S.Dak.		KJSD 1230	Sturgis, Mich.	WSTR 1230		WSPD 1370		
		KELO 1320	Sturgis, S. D.	KBNB 1280		WTDQ 1560		
		KNWC 1270	Stuttgart, Ark.	KWAK 1240		WTDL 1230		
		KKDD 1140	Suffolk, Va.	WFSG 1460		WTTT 1570		
Sitka, Alaska		KIFW 1230	Sullivan, Ind.	WKQV 1550		WTDQ 1230		
		KSEW 1400	Sulphur, La.	KIKS 1310		KRDS 1190		
Skowhegan, Maine		WGHH 1150	Sulphur Sprgs., Tex.	KSST 1230		WTMB 1460		
Slaton, Tex.		KCAS 1050	Summerville, Ga.	WGTA 950		WTKY 1370		
Slide, La.		WBG5 1560	Summerville, S.C.	WALS 980		KDYL 990		
Smithfield, N.C.		WMPM 1270	Sumter, S.C.	WFIG 1290		WIBW 580		
Smithville, Tenn.		WLE 400		WDXF 1240		WIBN 1400		
Smyrna, Ga.		WSMA 1550	Sunbury, Pa.	WKOK 1240		WREN 1250		
Snyder, Tex.		KSNY 1450	Sunnyside, Wash.	KREW 1230		KTOP 1490		
Soeorro, N.Mex.		KSRC 1290	Sun Valley, Ida.	KSKI 1340		KENE 1490		
Soda Sprgs., Idaho		KBRV 140	Superior, Nebr.	KRFS 1600		WBYZ 990		
Solvay, N.Y.		WQSR 520	Superior, Wis.	WDSM 710		WTR 610		
Somerset, Ky.		WSPF 1240		WIGL 970		KGOS 1480		
		WVSC 890	Susanville, Calif.	WVJG 1270		WTT 1550		
Somerset, Pa.		WVSC 890	Sutton, W. Va.	WQMN 1320		Torrington, Conn.		
Sonora, Calif.		KVML 1450	Swainsboro, Ga.	KJSE 1420		WZBY 990		
Sonora, Tex.		KCKG 1240	Sweetwater, Tenn.	WDEH 800		WTR 610		
So. Bend, Ind.		WNOU 1490	Sweetwater, Tex.	KDXX 1240		WRCB 1490		
		WJVA 1580	Sylacauga, Ala.	WFLX 1240		WGTA 1570		
Southbridge, Mass.		WSBT 960	Sylvia, N.C.	WMSJ 1480		WRCB 1490		
So. Boston, Va.		WLE 480	Sylvania, Ga.	WSYL 1490		KCRT 1240		
Southern Pines, N.C.		WEEB 990	Syracuse, N.Y.	WHEN 620		WTFB 970		
South Charleston, W. Va.		WRDS 1410		WFBL 1390		WHZ 1330		
South Daytona Beach, Fla.		WELE 1590	Tabor City, N.C.	WDEB 1260		KTRT 1570		
So. Gastonia, N.C.		KGAS 1420	Tacoma, Wash.	WDTA 1490		WLA 1490		
So. Haven, Mich.		WJQR 940		WSYR 570		WJRM 890		
So. Knoxville, Tenn.		WSKT 1580		WTAB 1370		Truckee, Calif.		
So. Paris, Mo.		WKTQ 1450		KMO 1360		KHOO 1400		
So. Pittsburg, Tenn.		WEPG 910		KTAC 850		KTMN 1530		
So. St. Paul, Minn.		KDWB 630		KTNT 1400		Truth or Consequences,		
		WMPT 1450		KV 1570		New Mexico	KCHS 1400	
So. Williamsport, Pa.		KONI 1480	Taft, Calif.	KTKR 1310		Tryon, N.C.	KTUC 1400	
Spanish Fork, Utah		KGUB 1270	Tahlequah, Okla.	KTLQ 1350		Tucson, Ariz.	KXEW 1600	
Sparks, Nev.		WHCO 1230	Tahoe Valley, Calif.	KTHO 590			KAIR 1490	
Sparta, Ill.		WSMT 1050	Talladega, Ala.	WEYY 1580			KCEE 790	
Sparta, Tenn.		WCKL 990		WNUZ 1230			KTAN 580	
Sparta, Wis.		WCOW 1290	Tallahassee, Fla.	WNS 1410			KCBG 1290	
		WORD 910		WTAL 1450			KFTV 680	
		WSPA 950	Tallahassee, Fla.	WTNT 1270			KWNS 940	
Spencer, Iowa		KICD 1240	Tallahassee, Fla.	WTLS 1300			KMPD 1330	
Spencer, W.Va.		WSPZ 1400	Tallahassee, Fla.	WTLN 1360			KTF 1550	
Spokane, Wash.		KGA 1510	Tampa, Fla.	KTLD 1800			KTKT 990	
		KKRG 1440		WALT 1110			KOLD 1450	
		KSPQ 1230		WAL 1250			KTNM 1400	
		KPEG 1380		WYOU 1550			KCOK 1270	
		KH 590		WFLA 970			KFW 1870	
		KNEW 790		WHBO 1050			KTUE 260	
		KREM 970		WINQ 1010			WTJG 740	
		KXLY 920		WTMP 1150			KAAC 970	
		KFGA 1330		WSOL 1300			KOME 1300	
		KUDY 280		WTAP 1340			KRMG 740	
Springdale, Ark.		KBRS 1340		WCPB 760			KVLI 1480	
Springfield, Ill.		WCVS 1450		WCWR 1470			KEMJ 1050	
		WMAY 970		WESR 1330			WELO 580	
		WTAX 1240		WPER 1570			WTUP 1490	
Springfield, Mass.		WHYN 560		WFDK 1460			KCEY 1390	
		WHDQ 1400		WOT 1260			WJRD 1150	
		WSPR 1270		KTAE 1260			WFLT 1400	
Springfield, Mo.		KGBX 1260		WSTH 860			WFTT 1280	
		KICK 1340		WTLK 1570			WTUG 790	
		KTTS 1400		WTIM 1410			WTBC 1230	
		KWTO 560		WNTT 1250			WVNA 1590	
		WIZE 1340		WTCJ 1230			WRCK 1410	
Springfield, Ohio		WLY 1600		WUPD 1050			WABT 580	
		WEL 1400		KYND 1580			KDHI 1250	
Springfield-Eugene, Ore.		KEED 1120		KTEM 1400			KTFI 1270	
Springfield, Tenn.		WDBL 1590		WBOW 1230			KLIX 1310	
Springfield, Vt.		WCFR 1480		WAAC 1360			KEEP 1450	
Springhill, La.		KBSF 1460		WTHI 1480			WTRW 1590	
Spring Lake, N. C.		WFBS 1450		WYAC 1370			KDOK 1330	
		WRRC 1300		WYAC 1370			KGB 1490	
		WTOE 1470		KATQ 940			KTBB 600	
		WSTO 1400		KATF 1400			KZEE 690	
		KDWT 1400		KTLS 1290			WTRN 1340	
		WRSL 1520		KALM 1400			WUND 1540	
		WPXE 1490		KODL 1440			WBTC 1540	
		WSSO 1400		KAPL 1300			KUKI 1400	
		WMAJ 1450		KRTR 1490			KUL 1420	
		WRSC 1390		KTHE 1240			WBCU 1460	
Statesboro, Ga.		WWNS 1240		KTRF 1230			WENK 1240	
Statesville, N.C.		WSIC 1400		KTIB 690			WMB5 590	
		WDBM 550		WSFT 1220			WILL 580	
		WTON 1240		WTFE 1200			WRID 1580	
		WAF 300		WTFE 1200			WIBX 950	
Staunton, Va.		WFTN 1240		WTHN 1500			WBSF 1490	
		WSTV 1510		WJDB 630			WRUN 1150	
Stephenville, Tex.		KGEG 1230		WPAX 1240			WTLB 1310	
Sterling, Colo.		KOLR 1490		WLDK 730			WUPR 1430	
Sterling, Ill.		WSDR 1240		WTNC 790			KVOU 1500	
Steubenville, Ohio		WSTV 1340		WTWA 1240			WSPV 1490	
Stevens Point, Wis.		WSPT 1010					WGOV 950	
Stillwater, Minn.		WAVN 1220		WLMK 1510			WGAF 910	
Stillwater, Okla.		KSPF 1390		WIPS 1250			WLEM 1150	
Stockton, Calif.		KJOY 1280		WTFE 1600			WLD 450	
		KSTN 1420		WTIF 1340			KVSH 940	
		KWG 1230		WWSG 1430			KNBA 1190	
Storm Lake, Iowa		KAYL 990		WTIL 1590			KQVC 1490	
Streator, Ill.		WIZZ 1250		WRMF 1050			WNSM 1340	
Stroudsburg, Pa.		WPPO 840		WTTV 1290			WYAK 1500	
Stuart, Fla.		WSTU 1450		WTET 1430				

WHITE'S RADIO LOG

Location	C.L.	Mc.
Glassboro	WGLS-FM	*89.7
Hackettstown	WNTI	91.9
Long Branch	WRLB	107.1
Millville	WMVB-FM	97.3
Newark	WHBI	105.9
	WFME	94.7
	WVNI-FM	100.3
	WBGO	*88.3
New Brunswk.	WGTC-FM	98.3
Paterson	WPAT-FM	93.1
Princeton	WUPB	103.3
Red Bank	WFHA-FM	106.3
South Orange	WSOU	*89.5
Trenton	WBUD-FM	101.5
	WTOA	97.5
Wildwood	WCMC-FM	100.7
Zarephath	WAWZ-FM	99.1

NEW MEXICO

Albuquerque	KANW	*89.1
	KARA-FM	99.5
	KECL	92.3
	KHFM	96.3
	KOAT-FM	100.3
	KTQM-FM	99.9
	KRSN-FM	98.9
	KRMF	97.9
	KBIM-FM	97.1
	KRWG	*91.7
Clovis		
Los Alamos		
Mountain Park		
Roswell		
University Park		

NEW YORK

Albany	WAMC	*90.3
Auburn	WMBO-FM	96.0
Babylon	WTFM	103.5
	WGU-FM	102.3
Binghamton	WNBF-FM	98.1
	WKOP-FM	95.3
Brooklyn	WNYE	*91.5
Brookville	WQWP	102.1
Buffalo	WBEN-FM	102.5
	WDCX	99.5
	WBFO	*88.7
	WBUS	94.3
	WEER	93.5
	WGR-FM	96.9
	WTSI-FM	103.3
	WRSL-FM	104.1
	WYSI-FM	103.3
	WDFI	96.1
	WSLU	*89.3
	WCSQ	89.3
Canton	WJW	101.9
Central Square		
Cherry Valley	WHCL-FM	88.7
Corning	WCFL-FM	102.1
Cortland	WKRT-FM	99.9
Depew	WBLK-FM	93.7
DeRuyter	WOIV	105.1
Elmira	WECW	*88.1
Floral Park	WSHS	*90.9
Garden City	WHLR	92.7
Genese	WGSU	88.3
Hempstead	WHLI-FM	98.3
	WVHC	*88.7
Hornell	WVHG-FM	105.3
Ithaca	WHCU-FM	97.3
	WIOB	*91.7
	WEIV	103.7
	WVBR-FM	101.7
Jamestown	WJTN-FM	93.3
	WKSN-FM	101.7
Kenmore	WYSL-FM	103.3
Lake Success	WTFM	103.5
Liberty	WVOS-FM	95.9
Loudonville	WVCR-FM	89.1
Middletown	WALL-FM	92.7
Mt. Kisco	WRNW	107.1
	WVIP-FM	106.3
New Rochelle	WVOX-FM	93.5
New York	WABC-FM	95.5
	WBAI	99.5
	WCBS-FM	101.1
	WVFD-FM	97.9
	WLVU	*90.7
	WHOM-FM	92.3
	WKCR-FM	*89.9
	WLIB	107.5
	WNCN	104.3
	WNEW-FM	102.7
	WNBC-FM	97.1
	WNYC-FM	93.9
	WNYE	91.5
	WOR-FM	98.7
	WPXI-FM	101.9
	WQXR-FM	96.3
	WRFM	105.1
	WRVR	106.7

Location	C.L.	Mc.
Niagara Falls	WHLG-FM	98.5
Norwich	WGHN-FM	103.9
Olean	WHDL-FM	95.7
Plattsburg	WEAF-FM	99.9
Patchogue	WALK-FM	97.3(8.3)
	WPAC-FM	106.1
Peekskill	WLNA-FM	100.7
Potsdam	WTSC-FM	91.1
Poughkeepsie	WKIP-FM	104.7
	WEOI-FM	101.5
Riverhead	WAPC-FM	103.9(8)
Rochester	WHFM	92.5
	WBBF-FM	100.1
	WCMF	96.5
	WIRQ	*90.9
	WROC-FM	97.9
	WVOR	100.5
Schenectady	WRVM-FM	92.3
South Bristol	WMIV	95.1
Springville	WSPE	*88.1
Syracuse	WAER	*88.1
	WDDS-FM	93.1
	WOMO	107.9
	WSYR-FM	92.5
	WGF-FM	92.5
	WRPI	*91.5
Troy	WRUN-FM	105.7
Utica	WBIV	105.7
Wethersfield		
White Plains	WFAS-FM	103.9

NORTH CAROLINA

Albemarle	WABZ-FM	100.9
Asheboro	WGWR-FM	92.3
Asheville	WLOS-FM	104.3
Burlington	WBBB-FM	101.1
	WFNS-FM	96.9
Black Mountain	WMTI	103.9
Burgaw	WPGF-FM	99.9
Burlington-Graham		
	WBAG-FM	92.9
	WUNC	*91.5
Chapel Hill	WBT-FM	107.9
Charlotte	WIST-FM	95.1
	WSOC-FM	103.7
	WYFM	104.7
	WMIT	103.3
Clingman's Pk.		
Concord	WEGO-FM	97.9
Durham	WDNC-FM	105.1
Elkin	WIFM-FM	100.9
Fayetteville	WFNC-FM	98.1
Forest City	WBBO-FM	93.3
	WAGY-FM	105.3
Gastonia	WGNC-FM	95.9
Goldston	WEOR	96.9
Greensboro	WMDI	98.7
	WQMG-FM	97.1
	WUAG	*89.9
Greenville	WUW	*91.3
	WNCI-FM	107.7
Grifton	WITN-FM	93.3
Henderson	WHNC-FM	92.5
Hendersonville	WHKP-FM	102.5
Hokory	WHKY-FM	102.9
	WIRC-FM	95.7
	WHPE-FM	95.5
	WHPS	*89.3
High Point	WVFR-FM	99.5
	WVOS-FM	100.3
	WRKB-FM	99.7
Kannapolis	WEWD-FM	96.5
Laurinburg	WLOE-FM	94.5
Leaksville	WUZY-FM	95.5
Luxington	WTSB-FM	95.7
Lumberton	WAGR-FM	102.3
North Wilkesboro		
	WKBC-FM	97.3
Raleigh	WKIX-FM	96.1
	WPTF-FM	94.7
	WRAL-FM	101.5
	WWMO-FM	102.1
	WEED-FM	92.1
	WFMA	100.7
	WVOR	92.5
Rochester	WRXO-FM	96.7
Roxboro	WSTP-FM	106.5
Salisbury	WVGP-FM	105.5
Sanford	WUOY-FM	96.7
Shelby	WOSH-FM	95.7
Statesville	WFMX	106.1
Tarboro	WCPS-FM	104.3
Thomasville	WVNC-FM	98.3
Washington	WITN-FM	93.3
Williamston	WIAM	103.7
Wilmington	WPRV	99.9
Wilson	WVOT-FM	106.1
Winston-Salem	WAIR-FM	97.1
	WYFS	103.5
	WFDD-FM	*88.1
	WSJS-FM	104.1

NORTH DAKOTA

Fargo	KFNW-FM	97.9
	WDAY-FM	93.7

OHIO

Akron	WAKR-FM	97.5
	WAPS	*89.1
	WCUF	96.5

Location	C.L.	Mc.
Alliance	WFAH-FM	101.7
Ashtand	WNCO-FM	101.3
Ashtabula	WROE-FM	97.1
Athens	WOBUE-FM	*91.5
	WATI-FM	105.5
	WDBN	94.9
Barberton	WOMP-FM	100.5
Bellaire	WBWC	*88.3
Berea	WAWR-FM	93.5
Bowling Green	WBGU	*88.1
	WBCE-FM	96.7
Bucyrus	WILE-FM	96.7
Cambridge	WHBC-FM	94.1
Canton	WCNO	106.9
	WTOF-FM	98.1
	WMER-FM	94.3
	WBEX-FM	93.3
	WAFF-FM	88.5
	WCPN-FM	105.1
	WAKW-FM	93.3
	WGUC	*90.9
	WKRC-FM	101.9
	WSAI-FM	98.5
	WOTO	94.1
	WNRG	104.9
Circleville	WZIP-FM	92.5
	KYW-FM	105.7
Cleveland	WBOE	*90.3
	WCRF	103.3
	WCLV	95.5
	WDOJ-FM	102.1
	WERE-FM	98.5
	WERF-FM	92.5
	WHK-FM	100.5
	WJW-FM	104.1
	WNOB	107.9
	WXEN	106.5
	WZAK	93.1
	WCUY-FM	92.3
	WBNS-FM	*90.5
	WBNS-FM	97.1
	WCOL-FM	92.1
	WMI-FM	99.7
	WOSU-FM	*89.7
	WTVN-FM	96.3
	WVKO	94.7
	WFZ	104.9
Conneaut		
Dayton	WHIO-FM	99.1
	WONE-FM	104.7
	WDAO	107.7
	WSLN	*91.1
	WOHI-FM	104.3
East Liverpool	WCTM	92.9
East	WEOL-FM	107.3
Elvira	WFIM-FM	105.5
Findlay	WFOB	96.7
Forestoria	WFRO-FM	99.3
Fremont	WJEH-FM	101.5
Gallipolis	WDBU-FM	91.3
Granville	WDRK-FM	108.5
Greenville	WQMS	96.7
Hamilton	WTOH	104.5
	WFOL-FM	94.9(8)
Hillsboro	WSRW-FM	106.7
Kent	WKSU-FM	*88.1
Kenton	WKTN	
Kettering	WVUD-FM	99.9
Lancaster	WHKO-FM	95.5
Lima	WIMA-FM	102.1
Mansfield	WVNO	106.1
Marietta	WCMO	*89.3
Marion	WMRN-FM	106.9
Miamisburg	WFCT	93.9
Middletown	WVPF-FM	105.9
Mc. Verson	WVNO	93.7
Middleton	WVNO	93.7
Mt. Vernon	WMCO-FM	*89.9
New Concord	WCMO-FM	100.3
Newark	WCLT-FM	100.3
Norwalk	WLKR-FM	95.3
Oxford	WVUB	*88.5
	WOKX	97.7
Piqua	WPTV-FM	85.7
Port Clinton	WRWR-FM	94.5
Portsmouth	WPAY-FM	104.1
Salem	WSOM-FM	105.1
Sandusky	WLEC-FM	102.7
Springfield	WBLY-FM	103.9
	WEEC-FM	100.7
	WEBC-FM	100.7
	WSTV-FM	103.5
	WTFP-FM	103.7
	WSPD-FM	101.5
Tiffin	WVHO	92.5
Toledo	WVHE	92.5
	WTDJ	*91.3
	WTOL-FM	104.7
	WTRT	99.9
Van Wert	WERT-FM	98.9
Wapakoneta	WERM	92.1
Wapakoneta	WVBN	*91.5
Waverly	WJSC-FM	*88.9
Wiberforce	WVOT-FM	93.3
Wooster	WVOT-FM	104.5
Worthington-Columbus		
	WRFD-FM	97.9
Xenia	WBHM-FM	103.9
Yellow Springs	WYSO	*91.5
Youngstown	WKBN-FM	98.9
	WBBW-FM	93.3
	WRED	101.1
Zanesville	WHIZ-FM	102.5

OKLAHOMA

Durant	KSEI-FM	107.3
Edmond	KWBI	97.7
Lawton	KLAW	101.5

Location	C.L.	Mc.
McAlester	KNED-FM	101.3
Midwest City	KMWK	94.7
	KNEA-FM	92.5
Norman	WTAD-FM	*90.9
Nowata	KNFB	94.3
Oklahoma City	KFNK	101.9
	KEFM	94.7
	KEFM	94.7
	KIOO	100.5
	KJEM-FM	102.7
	KOCY-FM	96.1
	KOFM	104.1
	KYFM	96.9
	KFNK	101.9
	KBCG	*89.9
Shawnee	KOSU-FM	*91.7
Stillwater	KSPI-FM	93.9
	KWGS	*90.5
Tulsa	KRMG-FM	95.5
	KOCW	97.5
	KOGM-FM	92.9
	KRAV	96.5

OREGON

Corvallis	KFLY-FM	101.5
Eugene	KRVM	*91.9
	KEED-FM	93.1
	KFMY	97.9
	KUGN-FM	99.1
	KWAX	*91.1
	KBMC	94.5
	KGPO	96.9
Grants Pass	KBOY-FM	95.3
Medford	KTEC	*88.3
Oretech	KOAP-FM	92.3
Portland	KGMG	95.5
	KOH-FM	101.1
	KPDQ-FM	105.3
	KPFM	92.1
	KPOJ-FM	98.5
	KQFM	100.3
	KRRC	*89.3

PENNSYLVANIA

Allentown	WFMZ	100.7
	WAEB-FM	104.1
Altoona	WVAM-FM	100.1
	WGAM-FM	98.1
	WBVP-FM	106.7
Beaver Falls	WGPA-FM	95.1
Bethlehem	WBHM-FM	106.5
Bloomsburg	WBYC-FM	107.5
Boyetown	WLOA-FM	96.9
Braddock	WBUT-FM	97.7
Butler	WVFE-FM	105.5
Carbondale	WHYI-FM	97.3
Carlisle	WHYL-FM	102.3
Chambersburg	WCHA-FM	95.1(s)
DuBois	WCEI-FM	102.1
Easton	WEST-FM	107.9
	WRRH	*90.5
	WESH-FM	99.9
	WFBG-FM	103.9
Edensburg	WMSH-FM	106.7
Elizabethtown	WJET-FM	103.7
Erie	WNYN-FM	99.9
	WGFT-FM	102.7
Gettysburg	WIFI	97.5
Glenside	WHJB	107.1
Greensburg	WHFR-FM	99.5
Harrisburg	WMSP	94.9
	WTPA-FM	104.1
	WCMG-FM	99.3
	WHHS	*89.3
Havertown	WAZL-FM	97.9
Hazleton	WJEL-FM	101.9
Jenkintown	WARD-FM	92.1
Johnstown	WIAC-FM	95.5
Lancaster	WGAL-FM	101.3
	WDAC	94.5
	WLAN-FM	96.9
Lebanon</		

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.

Because of the fact that this log represents actual monitoring reports rather than data taken from published program schedules received from the stations, you may find that frequencies (and operating times) given here differ from *official* listings. This is because foreign short-wave stations frequently operate several kilocycles away from their assigned (and announced) frequencies. In addition, the schedules of these stations are often changed and the changes are not published in the schedules until many months later. We feel that the type of log which *White's Radio Log* is presenting represents a very realistic picture of the current status of short-wave broadcasting, and is something which cannot be obtained elsewhere.

For the DX'er. If you care to roam the bands for DX, we present here some information which will be of invaluable use to you in tracking down DX stations.

Although the current radio propagation conditions have made the high frequency bands (11 and 13 meter bands) relatively poor for DX'ers, the other bands are generally good during certain periods of the year. As a general rule, the following bands are "hot for DX" during the daily and seasonal times indicated:

- 60-meter band=Winter nights.
- 49-meter band=Winter nights.
- 41-meter band=Winter nights.
- 31-meter band=Nights, all year.
- 25-meter band=Nights, all year.
- 19-meter band=Days all year. and Summer nights.
- 16-meter band=Days, all year, and Summer nights.
- 13-meter band=Days, all year.
- 11-meter band=Days, all year.

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.

QSL Cards. Many beginners in the hobby of listening for distant stations (or "DX'ing," as it is commonly known) aren't aware of the fact that merely *hearing* the stations is only half of the battle—getting the prized "QSL card" from the station can be just as much fun and equally rewarding too.

"QSL cards" are postcards sent out by just about every broadcasting station upon receipt of correct reception reports from listeners. To the listener who sends in the report to the broadcaster, the QSL card is a means of proving that he actually did hear the station in question, and it is also a colorful means of decorating the walls of the listening post. Most of these QSL cards are gayly colored and quite attractive.

On the other end of the situation, the broadcasters are usually pleased to send out these cards because it encourages people to listen to them and also to write to their engineering department. These reports are valuable to let the station know how well it is being received in various parts of the world, if it suffers from interference, if its signals fade, if it is being jammed, etc. They can also determine the size of their listening audience in given parts of the world.

To get a QSL card, however, means more than just sending a broadcaster stating: "I heard your station today, please send a QSL card." Such a report (and they are plentiful) is less than useless to a broadcaster and never brings a QSL card.

Here is how to be just about assured of getting one of these cards for your collection. First, listen to the station for at least 15 minutes—write down everything you hear, such as names of songs, topics of discussions, commercials, names of station personnel mentioned over the air. If you cannot understand the language being used, you can still list the type of programming. For example: "0715- Dance recording played featuring flute," or "0719- Woman read

WHITE'S RADIO LOG

news bulletin apparently about Viet Nam."

When you have completed your listening you are then ready to send your report. Include in the report the date you heard the station, the time of day (stations prefer you to use Greenwich Mean Time, but this isn't absolutely necessary), the details of the program material you heard, the strength of their signals, if they were interfered with by another station, the frequency you heard them on, and information on the type of receiver and antenna which you use. It is helpful to pass along to the station any comments which you have about their programming, such as: "I enjoy your musical programs," or "I would like to hear some folk music of your country played in the evenings," etc.

As a further addition to your signal report, add a short paragraph about yourself and your interest in DX'ing. Tell how many stations you have heard, how many countries, how many QSL cards you have received. You can tell the station your age or occupation, or, if you go to school, where you go and the grade you are in.

The station can usually be sent a letter without any street address on the letter, in the event you did not get their address over the air. A letter addressed to "The Voice of America, Washington, D. C.," or "Radio Sweden, Stockholm, Sweden," will be delivered promptly. It is not necessary for you to enclose return postage for reports sent to broadcasting stations which are operated by governmental agencies, however return postage sent to small commercial broadcasters (especially in Central and South America) can sometimes be the deciding factor in whether or not you will receive that prized QSL.

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.

TNX. 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:

Joseph Green, Hamilton, Ont.
Kees Hamming, Meadow Bank, P.E.I.
John Balgord, Wausau, Wisc.
Joseph W. Portka, Rochester, N.Y.
Tom Kneitel, New York, N.Y.
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Alan Anway, Cedar Falls, Iowa
R. D. Jones, Sarnia, Ont.
John Brings, Toronto, Ont.
C. May, Westminster, Mass.
Mike Jones, Dallas, Tex.
Charles Haynes, Beaumont, Tex.
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David Bernstein, Lancaster, Pa.
Herb Friedman, Laurelton, N.Y.
Ronald Miller, Peoria, Ill.
Francisco Viau, Guatemala City, Guat.
Sol Nussbaum, Brooklyn, N.Y.
Lee Rand, Old Town, Me.
Mike J. Dougherty, Phoenix, Ariz.
Richard George, Wichita, Kans.
Richard Goldblatt, Atlanta, Ga.
Rex Holmes, Oklahoma City, Okla.
Art Finnegan, Vancouver, B.C.
Jim Gibson, Forest Hills, N.Y.
Rick Slattery, Miami, Fla.

Freq.	Call	Name	Location	EST	Freq.	Call	Name	Location	EST
2182	WUE211	Lock II*	Wellsburg, W. Va.	0710	2450	4VEH	V. Evangelique	Cap Hatien, Haiti	0645
	NOW	NOW (U.S.C.G.)*	Pt. Angeles, Wash.	2230		KLH	S.F. Marine Oper.*	San Francisco, Calif.	0110
	NMF	NMF (U.S.C.G.)*	Boston, Mass.	1750		KOE	Eureka Marine Op.*	Eureka, Calif.	0100
	—	(marine emerg.)*	various ship & land	—	2514	WAY	Chicago*	Chicago, Ill.	1810
2430	YVCN	Escuelas R.	San Fernando, Venez.	2130	2530	KQP	Galveston Marine Op.*	Galveston, Tex.	2010

Kc/s	Call	Name	Location	EST
2598	KFX	Astoria Marine Op.*	Astoria, Ore.	2300
2716	NAS	Pensacola R. (U.S.N.)*	Pensacola, Fla.	2300
3230	ELWA	R. Village	Monrovia, Liberia	0140
3255	ELBC	Liberian BC	Monrovia, Liberia	0130
3260	—	R. Niger	Niamey, Niger	1615
3284	VRH9	Fiji BC	Suva, Fiji Is.	0102
3297	—	R. Brazzaville	Brazzaville, Congo	0000
3300	—	Brit. Hond. BC	Belize, Brit. Honduras	1730
3325	YVRA	R. Monagas	Maturin, Venez.	2315
3346	HIAS	Onda Musical	Sto. Domingo, Dom. Rep.	2308
3368	—	E. Official	Luanda, Angola	1830
3375	ZYK28	R. Olinda	Olinda, Braz.	2300
3390	HCOTI	R. Saracay	Sto. Domingo, Ecuador	2108
3824	ZNF4V	—	Maseru, Basutoland	2345
3930	CR4AC	R. Barlavento	S. Vicente, Cape Verde Is.	1850
3925	MCM	BBC	London, England	1045
3960	—	R. Iran	Teheran, Iran	1109
3975	GRC	BBC	London, England	0030
3985	—	V. UN Command	Seoul, S. Korea	0300
3990	—	A.F.R.S.	Taipei, Formosa	0600
3995	VQO3	Solomon I. BC	Honiara, Solomon Is.	0310
4560	VL7AX	Hobart Police*	Hobart, Tasmania	0910
—	VLC	Melbourne Police*	Melbourne, Australia	0910
4742	CP77	R. Sararenda	Camiri, Bolivia	2100

60 Meter Band—4750 to 5060 Kc/s

4765	HCAK2	R. del Ecuador	Guayaquil, Ecuador	2200
4795	—	R & TV Franc.	Brazzaville, Congo	0300
4807	—	R. Club Sao Tome	Sao Tome	1500
4820	—	E. Official	Luanda, Angola	0100
4825	HJHC	R. Narino	Pasto, Columbia	2345
—	—	Govorit Ashkhabad	Ashkhabad, USSR	1605
4835	—	R. Malaysia	Kuching, Sarawak	0900
4865	PRG5	R. Club de Para	Belem, Brazil	2145
4873	—	R. Centenario	Sta. Cruz, Bolivia	2230
4880	HCWEI	R. Nac. Espejo	Quito, Ecuador	2130
4950	—	R. Malaysia	Kuching, Sarawak	0730
—	YVQA	R. Sucre	Cumana, Venez.	2100
4968	—	R. Kuwait	Kuwait	1215
4990	YYMQ	R. Barquismeto	Barquismeto, Venez.	2145
5047	—	R. du Togo	Lome, Togo	0030
5050	—	R. Tanganyika	Dar es Salaam, Tangan.	2300
5145	—	R. Peking	Peking, China	1445

49 Meter Band—5950 to 6200 Kc/s

5960	—	Trans World R.	Monte Carlo, Monaco	1130
—	CP81	R. Pio Doce	L'Altagua, Bolivia	0400
5970	CKNA	R. Canada	Montreal, P.Q.	0715
—	—	R & TV Franc.	Brazzaville, Congo	1100
—	—	R. Berlin Int'l.	Berlin, E. Germany	2000
—	HJKA	R. Horizonte	Bogota, Colombia	0350
5975	MCP	BBC	London, England	0030
—	—	V. America	Honolulu, Hawaii	0800
5980	—	Lebanese BC	Beirut, Lebanon	2330
—	—	R. Nederland	Hilversum, Holland	0100
5990	MCU	BBC	—	—
—	—	R. Americas	—	—
6000	—	V. Free Korea	—	—
6015	HLK52	R. Havana	Havana, Cuba	2100
—	ZPA10	R. Paraguay	—	—
6020	—	R. Nederland	—	—
6025	—	E. Official	Luanda, Angola	0100
—	—	R. Portugal	Lisbon, Port.	2115
6030	—	R. Baghdad	Baghdad, Iraq.	1430
—	TGTZ	R. Internacional	Guatemala City, Guat.	0048
6035	XZK3	Burma BC	Rangoon, Burma	0945
6050	GSA	BBC	London, England	1735
—	—	R. Havana	Havana, Cuba	2100
6065	XEXG	R. Mexico	Mexico D.F., Mexico	1945
6070	—	R. Sofia	Sofia, Bulgaria	1500
6075	CXA3	R. Ariel	Montevideo, Uruguay	0430
6086	HI45B	R. Sto. Domingo	Sto. Domingo, Dom. Rep.	2322

Kc/s	Call	Name	Location	EST
6090	LRY1	RAE	Buenos Aires, Arg.	1500
6095	—	BBC	London, England	1735
—	—	R. Baghdad	Baghdad, Iraq	1430
—	BED29	V. Free China	Taipei, Formosa	2150
6100	HCSP4	V. del Volante	Portoviejo, Ecuador	0030
6110	GSL	BBC	London, England	1200
—	HRXW2	R. Comayaquela	Comayaquela, Hond.	1930
6120	4VEH	V. Evangelique	Cap Hatien, Haiti	0645
6125	GWA	BBC	London, England	1735
—	—	V. America	Honolulu, Hawaii	0345
6130	—	R. Nac de Espana	Madrid, Spain	2000
—	VUD	All India R.	Delhi, India	1445
6135	—	R. Havana	Havana, Cuba	0090
6150	GRW	BBC	London, England	0145
—	HCLT4	R. Costa Azul	Portoviejo, Ecuador	2200
6160	CBNX	CBC	Vancouver, B.C.	2130
6180	GRO	BBC	London, England	1745
6185	—	R. Portugal	Lisbon, Portugal	2115
6190	—	R. Maroc	Robat, Morocco	0135
6195	—	E. Official	Luanda, Angola	0600
6210	—	R. Peking	Peking, China	1605
6215	TIGPH	R. Costa Rica	San Jose, C.R.	2330
6240	WJG	Memphis*	Memphis, Tenn.	2030
6250	—	E. R. Sta. Isabel	Sta. Isabel, Sp. Guinea	1730
6268	OAX7C	R. Tahuantisyuyo	Cuzco, Peru	2327
6270	—	R. Peking	Peking, China	1545
6290	—	R. Peking	Peking, China	1430
6567	YVCLBM	(aircraft)*	—	2310
—	CMI	Boveros*	Havana, Cuba	2333
—	WSY70	New York*	New York, N.Y.	2320
—	WHZ	Balboa*	Balboa, C.Z.	2015
—	WRW70	San Juan*	San Juan, P.R.	2210
—	WBR	Miami*	Miami, Fla.	1321
—	6YK	Kingston*	Kingston, Jamaica	1314
6825	—	R. Peking	Peking, China	1445
7035	—	R. Peking	Peking, China	0700
7050	—	R. Cairo	Cairo, U.A.R.	1030
7080	—	R. Peking	Peking, China	1605
7090	—	R. Tirana	Tirana, Albania	1500
7105	—	R & TV Franc.	Brazzaville, Congo	0600
7110	MCS	BBC	London, England	1430
7120	—	Govorit Kiev	Kiev, USSR	1940
7125	VUD	All India R.	Delhi, India	1445
7145	—	R. Bamakao	Bamakao, Mali	1730
7150	GRT	BBC	London, England	0730
7160	—	R. Malaysia	Kuching, Sarawak	0900
7170	—	Govorit Kiev	Kiev, USSR	0040
—	—	R. Noumea	Noumea, New Caledonia	0520
7180	—	Govorit Kiev	Kiev, USSR	1940
—	VUD	All India R.	Delhi, India	1340
7185	GRK	BBC	London, England	1430
7195	—	R. Japan	Tokyo, Japan	1400
—	—	V. America	Monrovia, Liberia	1745
7210	GWL	BBC	London, England	0145
—	—	Int'l Red Cross	Geneva, Switz.	0103
7220	—	R. Australia	Melbourne, Australia	1030
7225	VUD	All India R.	Delhi, India	1930
7235	VUD	All India R.	Delhi, India	1445
—	—	E. Official	Luanda, Angola	0600
7255	—	Deutsche Welle	Kigali, Rwanda	1520
7260	GSU	BBC	London, England	0145
—	—	Trans World R.	Monte Carlo, Monaco	0335
7280	—	R. Bamako	Bamako, Mali	1730
7295	—	Deutsche Welle	Kigali, Rwanda	2330
7305	—	R. Budapest	Budapest, Hungary	1930
7310	—	Govorit Kiev	Kiev, USSR	1940
7325	GRJ	BBC	London, England	1745
7330	—	Govorit Kiev	Kiev, USSR	1940
7340	—	R. Peking	Peking, China	1430
7450	—	R. Peking	Peking, China	1430
8746	GCN4	Griggon*	Griggon, England	1900
8799	WMI	Lorain*	Lorain, Ohio	2040
8806	VIS	Sydney*	Sydney, Australia	0050
9390	—	R. Tirana	Tirana, Albania	1500
9415	—	V. UN Command	Seoul, S. Korea	0410
9453	—	R. Portugal Livre	clandestine	1615
9455	OAX4W	R. America	Lima, Peru	2125
9457	—	R. Peking	Peking, China	1605
9495	—	R. Cairo	Cairo, U.A.R.	1030

31 Meter Band—9500 to 9775 Kc/s

9505	—	R. Japan	Tokyo, Japan	0315
9510	GSB	BBC	London, England	0730
9520	OZF5	V. Denmark	Copenhagen, Den.	1600
9520	—	R. Havana	Havana, Cuba	1715

WHITE'S RADIO LOG

Kc/s	Call	Name	Location	EST
9525	—	R. Japan	Tokyo, Japan	1400
9545	—	Lebanese BC	Beirut, Lebanon	0430
	XEFT	V. de Vera Cruz	Vera Cruz, Mex.	0038
9570	—	R. Australia	Melbourne, Austr.	1030
9575	—	RAI	Rome, Italy	1925
9580	—	R. Australia	Melbourne, Austr.	0800
9585	ZYR56	R. Excelsior	Sao Paulo, Brazil	1700
9595	ZOZ3	Nihon Tampa Hoso	Tokyo, Japan	0300
9600	—	R. Australia	Melbourne, Austr.	1300
	—	R. Nac. de Espana	Tenerife, Canary Is.	0005
	CE960	R. Pres. Balmaçada	Santiago, Chile	0600
9605	—	R. Damascus	Damascus, Syria	1730
9625	GWO	BBC	London, England	0145
9635	—	R. Afghanistan	Kabul, Afghanistan	1405
9640	HLK5	Korean BC	Seoul, Korea	0000
	WRUL	R. N.Y. Worldwide	New York, N.Y.	1400
9645	—	Vatican R.	Vatican City	1950
9650	—	R. Peking	Peking, China	0700
	—	V. of America	Honolulu, Hawaii	0345
	—	R. Havana	Havana, Cuba	1400
9660	—	Goverit Kiev	Kiev, USSR	1940
	—	R. Nationale	Leopoldville, Congo	0800
9668	TGNA	R. Cultural	Guatemala City, Guat.	2300
9670	—	R. Australia	Melbourne, Austr.	0400
9675	—	R. Moscow	Moscow, USSR	0230
	—	R. Senegal	Dakar, Senegal	1230
9680	—	Lebanese BC	Beirut, Lebanon	2130
	VUD	All India R.	Delhi, India	1340
9685	BED73	V. of Free China	Taipei, Formosa	2150
9690	VUD	All India R.	Delhi, India	1445
9695	—	R. Nac Khmere	Phnom Penh, Cambodia	0800
9705	—	R. Japan	Tokyo, Japan	1000
9710	LRX2	R. El Mundo	Buenos Aires, Arg.	2205
	OAX9D	R. Tropical	Tarapoto, Peru	2230
9715	—	R. Nederland	Hilversum, Holland	0100
9720	—	R. Senegal	Dakar, Senegal	1100
9730	—	R. & TV Franc.	Brazzaville, Congo	0000
9745	ORU	R-TV Belge	Brussels, Belgium	1730
9750	—	R. Bamako	Bamako, Mali	1730
9752	—	R. Pyongyang	Pyongyang, N. Korea	1600
9755	—	BBC	London, England	0730
9760	—	R. Hanoi	Hanoi, N. Vietnam	1030
9765	VUD	All India R.	Delhi, India	1930
	ETLF	R. V. of Gospel	Addis Ababa, Ethiopia	0845
	—	BBC	London, England	1700
9770	4VEH	V. Evangelique	Cap Hatien, Haiti	0645
9833	—	R. Budapest	Budapest, Hungary	2030
9835	—	Goverit Minsk	Minsk, USSR	1630
9840	—	R. Hanoi	Hanoi, N. Vietnam	1030
9860	—	R. Peking	Peking, China	1430
9905	ZBD42	Cable & Wireless*	Port-of-Spain, Trinidad	1540
9915	VUD	All India R.	Delhi, India	1445
10110	—	R. Espana	clandestine	1535
	—	Independ.		
11260	—	R. Espana	clandestine	1535
	—	Independ.		
11690	—	R. Moscow	Moscow, USSR	1100

25 Meter Band—11700 to 11975 Kc/s

11710	—	R. Australia	Melbourne, Australia	0400
	KGEI	V. of Friendship	San Francisco, Calif.	1730
11720	CHOL	R. Canada	Montreal, P.Q.	1016
	PRL8	R. Naciolan	Brasilia, Brazil	1655
11730	—	R. Teheran	Teheran, Iran	1500
11740	—	Far East BC	Manila, Philippines	0315
	VUD	All India R.	Delhi, India	1445
	CEI174	R. Nuevo Mundo	Santiago, Chile	1815
11750	—	Far East Network	Tokyo, Japan	0100
11755	HCJB	V. of the Andes	Quito, Ecuador	1645
11770	—	Lebanese BC	Beirut, Lebanon	1330

Kc/s	Call	Name	Location	EST
11780	LRV2	RAE	Buenos Aires, Argentina	1600
	—	BBC	London, England	0730
	DMQ	Deutsche Welle	Cologne, W. Germany	0230
	—	Goverit Volograd	Volograd, USSR	0500
11795	WINB	WINB	Red Lion, Pa.	1500
11800	—	R. Nederland	Hilversum, Holland	1700
	—	R. Stockholm	Stockholm, Sweden	2045
11820	GSN	BBC	London, England	0730
	—	R. Australia	Melbourne, Australia	1700
11825	BED69	V. of Free China	Taipei, Formosa	2150
11835	—	R & TV Algerienne	Algiers, Algeria	1700
	4VEH	V. Evangelique	Cap Hatien, Haiti	0645
	CXA19	R. el Espectador	Montevideo, Uruguay	2037
11840	—	R. Australia	Melbourne, Australia	1430
	WRUL	R. N.Y. Worldwide	New York, N.Y.	1400
11860	—	R. Moscow	Moscow, USSR	1100
	—	Trans World R.	Bonair, Neth. Ant.	1410
11885	XEHH	R. Commerciales	Mexico D.F., Mex.	2300
11895	—	Windward Is. BC	St. Georges, Grenada	1500
11905	—	RAI	Rome, Italy	1925
	—	AFRTS	New York, N.Y.	1400
11910	HSK9	Overseas BC	Bangkok, Thailand	0800
11915	—	R. Damascus	Damascus, Syria	1730
11920	—	AFRTS	New York, N.Y.	1315
11925	HLK6	Korean BC	Seoul, Korea	2200
11935	—	R. Portugal	Lisbon, Portugal	1315
11940	VUD	All India R.	Delhi, India	1340
11945	—	R. Afghanistan	Kabul, Afghanistan	1300
11955	—	R. Nederland	Hilversum, Holland	1400
11975	CGA2	Can. Overseas Tel.*	Montreal, P.Q.	0550
14423	FYA G	Postes Tel. & Tel.*	Paris, France	0800
14490	OEF34	Linz*	Linz, Austria	1835

19 Meter Band—15100 to 15450 Kc/s

15110	—	R. Teheran	Teheran, Iran	1500
15120	—	R. Warsaw	Warsaw, Poland	0230
15135	—	R. Havana	Havana, Cuba	1550
15150	—	Vatican R.	Vatican City	0630
	—	V. of America	Dixon, Calif.	1747
15160	TAU	Ankara	Ankara, Turkey	1700
15165	VUD	All India R.	Delhi, India	0500
	—	R. Damascus	Damascus, Syria	1730
	OZF7	V. of Denmark	Copenhagen, Den.	0700
15180	GSO	BBC	London, England	0730
15185	—	Finnish BC	Helsinki, Finland	0730
15190	—	R & TV Franc.	Brazzaville, Congo	0600
15195	—	R. Japan	Tokyo, Japan	0315
15220	—	R. Australia	Melbourne, Australia	0000
15225	VUD	All India R.	Delhi, India	0830
	—	R. Afghanistan	Kabul, Afghanistan	0545
	—	AFRTS	New York, N.Y.	0930
15230	GWD	BBC	London, England	0730
15240	—	R. Australia	Melbourne, Australia	1700
15270	—	R. Havana	Havana, Cuba	1400
15280	—	AFRTS	New York, N.Y.	0930
15285	—	R. Prague	Prague, Czech.	1000
15290	—	R & TV Franc.	Brazzaville, Congo	1100
15295	DMQ	Deutsche Welle	Cologne, W. Germany	0230
15305	HER6	Swiss BC	Berne, Switz.	1030
15310	—	R. Japan	Tokyo, Japan	0315
15320	CKCS	R. Canada	Montreal, P.Q.	0715
15333	—	R. Ceylon	Colombo, Ceylon	0200
15380	—	R. Portugal	Lisbon, Portugal	0845
15445	—	R. & TV Franc.	Brazzaville, Congo	0730
15448	—	R. Prague	Prague, Czech.	1000
17665	4XA67	Tel Aviv*	Tel Aviv, Israel	1000
17695	—	BBC	London, England	0730
17720	WINB	WINB	Red Lion, Pa.	1200
	—	R & TV Franc.	Brazzaville, Congo	0730
17760	WRUL	R. N.Y. Worldwide	New York, N.Y.	1400
17793	—	R. Cultural	Sao Paulo, Brazil	1100
17795	HEI8	Swiss BC	Berne, Switz.	1030
17820	CKNC	R. Canada	Montreal, P.Q.	0715
17825	LLN	R. Norway	Oslo, Norway	1100
17840	—	R. Australia	Melbourne, Australia	2115
17855	—	V. of America	Tangiers, Morocco	1230
17895	—	R. Portugal	Lisbon, Portugal	0845
18862	ZEO89	Cable & Wireless*	Hong Kong	1800
21500	—	R & TV Franc.	Brazzaville, Congo	0730
21650	—	AFRTS	New York, N.Y.	1030

Electronic Air Conditioning

(Continued from page 45)

to a condenser where it is compressed back into a liquid. During this phase, heat is given up and blown outdoors. Similarly, the thermo-electric unit draws heat from one region and surrenders it to another.

Doing It Today. Now we can consider the diagram of a practical thermoelectric air-conditioning system now in use. It appears in Fig. 7. In the center are the numerous modules with their semiconductor material strapped together. Electrical power is introduced at the right. According to the earlier description, the top plates of each module grow cold, as the bottom surfaces heat. The cooling cycle begins as air to be conditioned (from the room) is drawn through the top duct, or air-heat exchanger. The cool surfaces of the duct extract heat from the air.

The second part of the process is drawing heat from the module assembly. This is done by a water-heat exchanger at the bottom. A circulation of water is used here as a heat sink. The water is then led to coils which release the heat.

Controlling operating temperature is considerably simplified. Instead of on-off action, common to standard units, cooling is smoothly regulated by changing the electrical current flow. And in winter, a reversal of current flow reverses the whole process for heating. During this function, the air duct at the top is warmed by the thermoelectric modules. This system was created by Carrier and installed in Racine, Wisconsin, for the

offices of S. C. Johnson & Son (the wax people). It was selected over the conventional air conditioner for several reasons. The company wished to cool 28 offices, but didn't want to mar the internal or external appearance of the building. (It was designed by Frank Lloyd Wright.) Conventional systems were deemed unacceptable; they meant cutting through outside walls or elaborate disguising of equipment which couldn't be hidden in a basement. Regular piping and ductwork meant considerable expense, loss of man-hours and much inconvenience. Compact thermoelectric units, each fitting into overhead space, solved the problem.

"Where Can I Get One?" Although Johnson's installation is proving successful, electronic air conditioning on a big scale is still over the horizon for the bigger consumer market. Despite its present state of development, there is still an intense search for materials that will bring its price down to competitive levels. Another wrinkle to be overcome is the relatively long time required to reach maximum cooling temperature. This is no problem in nuclear submarines, where thermoelectric conditioners cool on a continuous basis. Nor is it a limitation for special applications in the research lab where such devices are used for "spot" cooling. But there are signs of increasing consumer applications, even now. You can purchase a small portable thermoelectric refrigerator for auto, boat or camping use. Some hotels have already installed ice-cube coolers in each room. If the scientists are correct in their forecasts, the silent, maintenance-free electronic air conditioner is definitely out of the dream stage. ■

VHF Extender

(Continued from page 40)

To change from low-band to high-band operation, you must either add D1 and L4.

Don't be alarmed at the thought of using the VHF Extender and a standard short-wave receiver to listen to the FM signals of most commercial VHF communications gear. The VHF gear must now use restricted bandwidth for its transmissions, and as a result you can get very clean copy from the FM signal with an AM receiver simply by tuning a trifle to one side of the signal itself.

Going Mobile. And the VHF Extender can be used with auto radios, too, by using the "BC-Band" component values in the coil tables and supplying 150 volts DC from an external supply.

It should be pointed out that VHF projects are the most difficult to construct and require considerable skill and craftsmanship on the part of the builder. The VHF Extender is not a beginner's project and should not be attempted by a novice experimenter. Cleanliness counts—use just enough solder; scrape off excess rosin; beware of cold solder or *rosin* joints. Construction time is not important—do not race the clock to get the job done. ■



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3. *Progressive "Edu-Kits" Inc.* now has available their new 1965 catalog featuring hi-fi, CB, Amateur, test equipment in kit and wired form. Also lists books, parts, tools, etc.

4. We'll exert our influence to get you on the *Olson* mailing list. This catalog comes out regularly with lots of new and surplus items. If you find your name hidden in the pages, you win \$5 in free merchandise!

5. Unusual scientific, optical and mathematical values. That's what *Edmund Scientific* has. War surplus equipment as well as many other hard-to-get items are included in this new 148-page catalog.

6. Bargains galore, that's what's in store! *Poly-Paks Co.* will send you their latest eight-page flyer listing the latest in merchandise available, including a giant \$1 special sale.

7. Whether you buy surplus or new, you will be interested in *Fair Radio Sales Co.'s* latest catalog—chuck full of buys for every experimenter.

8. Want a colorful catalog of goodies? *John Meshna, Jr.* has one that covers everything from assemblies to zener diodes. Listed are government surplus radio, radar, parts, etc. All at unbelievable prices.

9. Are you still paying drugstore prices for tubes? *Nationwide Tube Co.* will send you their special bargain list of tubes. This will make you light up!

10. *Burstein-Applebee* offers a new giant catalog containing 100's of big pages crammed with savings including hundreds of bargains on hi-fi kits, power tools, tubes, and parts.

11. Now available from *EDI (Electronic Distributors, Inc.)* a catalog containing hundreds of electronic items. *EDI* will be happy to place you on their mailing list.

12. VHF listeners will want the latest catalog from *Kuhn Electronics*. All types and forms of complete receivers and converters.

HI-FI/AUDIO

13. Here's a beautifully presented brochure from *Altec Lansing Corp.* Studio-type mikes, two-way speaker components and other hi-fi products.

14. For the love of mikes! *Astatic Corp.* has lots. Studio types, ham types, recording types, etc. See its catalog sheets for the details.

15. A name well-known in audio circles is *Acoustic Research*. Here's its booklet on the famous AR speakers and the new AR turntable.

16. *Garrard* has prepared a 32-page booklet on its full line of automatic turntables including the Lab 80, the first automatic transcription turntable. Accessories are detailed too.

17. Two brand new full-color booklets are being offered by *Electro-Voice, Inc.* that every audiophile should read. They are: "Guide to Outdoor High Fidelity" and "Guide to Compact Loudspeaker Systems."

18. Speakers and enclosures from *Argos Products Co.* feature a new and novel well-mounting system. To find out more, *Argos* will be happy to send literature.

19. A valuable 8-page brochure from *Empire Scientific Corp.* describes technical features of their record playback equipment. Also included are sections on basic facts and stereo record library.

20. Tape recorder heads wear out. After all, the head of a tape deck is like the stylus of a phonograph, and *Robins Industries* has a booklet showing exact replacements. Lots of good info on how the things are built, too.

21. *Wharfedale*, a leading name in loudspeakers and speaker systems, has a colorful booklet to send to you on its product line. Complete with prices, it is a top-notch buyers guide.

22. A wide variety of loudspeakers and enclosures from *Utah Electronics* lists sizes shapes and prices. All types are covered in this 16-page heavily illustrated brochure.

24. Here's a complete catalog of high-styled speaker enclosures and loudspeaker components. *University* is one of the pioneers in the field that keeps things up to date.

26. When a manufacturer of high-quality high fidelity equipment produces a line of kits, you can just bet that they're going to be of the same high quality! *H. H. Scott, Inc.*, has a catalog showing you the full-color, behind-the-panel story.

27. An assortment of high fidelity components and cabinets are described in the *Sherwood* brochure. The cabinets can almost be designed to your requirements, as they use modules.

28. Very pretty, very efficient, that's the word for the new *Betacom* intercom. It's ideal for stores, offices, or just for use in the home, where it doubles as a baby-sitter.

TAPE RECORDERS AND TAPE

30. "All the Facts" about *Concord Electronics Corporation* tape recorders are yours for the asking in a free booklet. Portable battery operated to four-track, fully transistorized stereos cover every recording need.

31. "The Care and Feeding of Tape Recorders" is the title of a booklet that *Sarkes-Tarzian* will send you. It's 16-pages jam-packed with info for the home recording enthusiast. Includes a valuable table of recording times for various tapes.

32. You can learn lots about tape recorders. Big tape recorders for studios, little tape recorders for business men, all kinds of tape recorders from *American Concertone*.

33. Become the first to learn about *Norelco's* complete Carry-Corder 150 portable tape recorder outfit. Four-color booklet describes this new cartridge-tape unit.

34. The 1964 line of *Sony* tape recorders, microphones and accessories is illustrated in a new 16-page full color booklet just released by *Super-scope, Inc.*, exclusive U.S. distributor.

35. If you are a serious tape audiophile, you will be interested in the new *Viking of Minneapolis* line—they carry both reel and cartridge recorders you should know about.

36. Tone-arms, cartridges, hi-fi, and stereo preamps and replacement tape heads and conversions are listed in a complete *Shure Bros.* catalog.

HI-FI ACCESSORIES

38. An entirely new concept in customizing electron tubes has generated a new replacement line. *Gold Lion* tubes give higher output and lower distortion than ordinary production high-fidelity tubes.

KITS

41. Here's a firm that makes everything from TV kits to a complete line of test equipment. *Conar* would like to send you their latest catalog—just ask for it.

42. Here's a 100-page catalog of a wide assortment of kits. They're high-styled, highly-versatile, and *Heath Co.* will happily add your name to the mailing list.

43. Want to learn about computers the easy way? Brochure from *Digital Electronics* describes its line of transistorized kits.

AMATEUR RADIO

45. Catering to hams for 29 years, *World Radio Laboratories* has a new FREE 1965 catalog which includes all products deserving space in any ham shack. Quarterly fliers, check-out of electronic bargains are also available.

46. A long-time builder of ham equipment, *Hallcrafters, Inc.* will happily send you lots of info on the ham, CB and commercial radio-equipment.

47. Here's a goodly assortment of literature covering the products of the *Dow-Key Co.* They make coaxial relays, switches, and preamps for hams and CB'ers.

CITIZENS BAND SHORT-WAVE RADIO

48. *Hy-Gain's* new 16-page CB antenna catalog is packed full of useful information and product data that every CB'er should know about. Get a copy.

49. Want to see the latest in communication receivers? *National Radio Co.* puts out a line of mighty fine ones and their catalog will tell you all about them.

50. Are you getting all you can from your Citizens Band radio equipment? *Cadre Industries* has a booklet that answers lots of the questions you may have.

51. Antennas for CB and ham use as well as for commercial installations is the specialty of *Antenna Specialists Co.* They also have a generator for power in the field.

53. When private citizens group together for the mutual good, something big happens. *Hallcrafters, Inc.* is backing the CB React teams and if you're interested in CB, circle #53.

54. A catalog for CB'ers, hams and experimenters, with outstanding values. Terrific buys on antennas, mikes and accessories. Just circle #54 to get *Grove Electronics* free 1964 Catalog of Values.

55. Interested in CB or business-band radio? Then you will be interested in the catalogs and literature *Mosley Electronics* has to offer.

Also see items 46 and 47.

SCHOOLS AND EDUCATIONAL

56. *Bailey Institute of Technology* offers courses in electronics, basic electricity and drafting as well as refrigeration. More information in their informative pamphlet.

57. *National Radio Institute*, a pioneer in home-study technical training, has a new book describing your opportunities in all branches of electronics. Unique training methods make learning as close to being fun as any school can make it.

58. Interested in ETV? *Adler Electronics* has a booklet describing educational television and this goes into a depth study of ETV in all its ramifications. There's a good science fair project here for someone!

59. For a complete rundown on curriculum, lesson outlines, and full details from a leading electronic school, ask for this brochure from the *Indiana Home Study Institute*.

60. Facts on accredited curriculum in E. E. Technology is available from *Central Technical Institute* plus a 64-page catalog on modern practical electronics.

61. *ICS (International Correspondence Schools)* offers 236 courses including many in the fields of radio, TV, and electronics. Send for free booklet "It's Your Future."

ELECTRONIC PRODUCTS

63. A complete booklet and price list giving you the inside data on *Schaber Organs* are yours for the asking.

64. If you can use 117-volts, 60-cycle power where no power is available, the *Terado Corp.* Trav-Electric 50-160 is for you. Specifications are for the asking.

65. Want power plus for your auto? New Transistorized Ignition adds 20% more MPG. 3 to 5 times more spark plug life. Lower maintenance cost. Free catalog and instruction booklet.

67. Get the most measurement value per dollar." That's what *Electronic Measurements Corp.* says. Looking through the catalogue they send out, they very well might be right!

TELEVISION

69. Interested in tackling a TV kit? *Arkay International, Inc.* will send you full literature (including a schematic) of this truly educational kit. It's used in many of the electronic schools.

70. The first entry into the color-TV market in kit form comes from the *Heath Company*. A do-it-yourself money saver that all TV watchers should know about.

71. The smallest television set to date is featured in this beautiful prepared brochure from *SONY Corp.* You'll be amazed at the variety this firm offers.

72. Get your 1964 catalog of *Cisin's* TV, radio, and hi-fi service books. Bonus—TV tube substitution guide and trouble-chaser chart is yours for the asking.

SLIDE RULE

75. Want to find rapid solutions to complicated math problems? Solve interest and ratio, log and trig problems with 10-scale slide rule. *Alsynco* will send complete information.

TOOLS

78. Learn about *Xcelite's* line of pliers and snips, specialized for radio, TV and electronic work. *Xcelite's* hand tools offer many advantages worth looking into—get bulletins N464 and N664.

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Super Tapes

Continued from page 51

possible frequency response at $3\frac{3}{4}$ and $1\frac{7}{8}$ ips.

The lower the speed and the smaller the gap length of the recording head, the more important it is for the tape to hug the head closely. This fact led Ampex to wind 1200 feet of pliant, 1-mil polyester tape onto a 7-inch reel and price it like an equivalent-length reel of $1\frac{1}{2}$ -mil acetate. The hub of this special reel has a 4-inch diameter, instead of the normal $2\frac{1}{4}$ inches. Besides making the tape fill the reel, this outside hub smoothes out speed irregularities that frequently crop up in popular-priced recorders toward the end of a reel.

What's Best for You. How do the super tapes perform? Pretty much as billed. But, like all tapes, their performance will vary from one machine to another, because different brands of home recorders use different bias frequencies. Bias is a high-frequency signal fed to the record head to reduce distortion and improve recording quality.

A good way to find out what tapes work best on your recorder is to invest in sample reels of those that interest you, then make up a test reel by splicing together equal lengths from each sample and recording the same material on each specimen. To tell each specimen from its neighbors, separate them with a length of leader tape.

This writer used just such a procedure to compare the sound quality of a number of specialized tapes. The comparison reel was played on a Uher 8000 Royal quartertrack stereo recorder and fed into a home hi-fi amplifier and speaker system. Here's what we found:

Scotch Low Noise tape and Kodak's High Output tape gave, without a doubt, the cleanest, clearest sound at every speed from $7\frac{1}{2}$ to $15\frac{1}{16}$ ips. for the sample types sampled by the author.

Kodak's High Output tape provided a noticeably stronger signal than the other types. As used on the Uher, though, it appeared to have a bit more background noise than the other tapes. But Kodak points out that this tape works best when your recorder is matched to it by adjusting the bias. If you can adjust the bias on your recorder, Kodak's High Output tape would probably offer the best signal-to-noise figure for your machine.

Two reels of Scotch Low-Noise tape were used to make successive copies back and forth between a Korting 158 quarter-track stereo recorder and the Uher 8000. We managed to get more than five generations away from the original recording without hearing significant degradation of sound quality.

In normal recording and playback, Soundcraft's Golden Tone tape, a premium-price offering, was second only to the tapes mentioned above. Amper's Low-Speed tape, did quite well at its $3\frac{3}{4}$ and $1\frac{7}{8}$ ips design speeds and demonstrated very impressive bass response at both $3\frac{3}{4}$ ips and the standard hi-fi speed of $7\frac{1}{2}$ ips.

Low-Print tapes by Kodak and Soundcraft delivered somewhat less output than the other tapes because of their thinner oxide coatings. But their sound quality was good.

Of triple-play tapes tested, Soundcraft's came closest to standard tapes in output strength, and it had excellent sound quality. Audiotape triple-play tape ran it a close second.

What This Means to You. If you do cut-and-splice editing, use standard $1\frac{1}{2}$ -mil acetate. Where you edit by dubbing—or do considerable copying and recopying—invest in a Low-Noise or similar tape. This is also good advice for top quality at lower speeds.

Low-print tapes at this writing come only on an acetate base. But if you plan to store a tape recorded at peak signal for a prolonged time period—and you can control storage humidity and heat—this is a good tape to consider. Long life under less-controlled climatic conditions is better assured with a polyester tape. Just try to be a bit more judicious in your level setting to reduce the danger of print-through.

And, of course, polyester is a must in tropic areas or the far North.

What about the merits of standard-, extended-, double-, and triple-play tapes? This depends on three things:

How much recording time do you need?

How important is higher-speed quality for the job at hand?

How gently do you and your recorder treat thin tapes?

Whatever your recording problem, today you can be pretty sure to find the tape that will solve it. Which is a lot more than you could say for the good old days. ■



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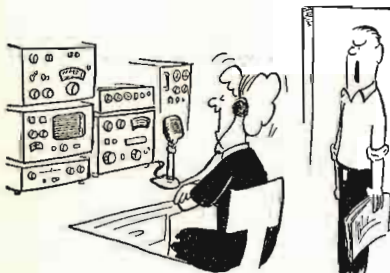
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monly high performance per dollar invested.

From these inexpensive units, transistor amplifiers take a sizable price jump into the \$200 region. One of the outstanding designs in this price class is the KLH Model 16, delivering 45 watts per channel with an exceptionally sweet, warm, natural sound. The tag is \$219.95, which makes it a kind of "best buy," along with Lafayette's LA-900, which delivers 30 watts per channel for \$189.50. In the same performance class are Harman-Kardon's Model A1000T (35 watts per channel) and Scott's Model 260 (40 watts per channel) priced at \$369.95 and \$259.95, respectively. The power ratings may seem rather low for equipment in this price range. However, this is offset by the fact that transistors recover far more quickly than tubes from stress imposed by momentary peak loads. From a musical point of view, transistors therefore have a greater effective power reserve at a given wattage rating than their tube counterparts.

Beyond this level of unquestioned excellence is a group of transistor amplifiers that represent the ultimate state of the art. Transistor amplifiers in this group cannot be considered as commercial products in the ordinary sense, for they are not primarily designed "for a market." Rather, they represent their designers' private passion to push back the limits of the possible—the striving for the imaginable best. It may take a keen ear to tell the difference between these "ultimate" designs and those in the middle-price class. But if they are used with the best available loudspeakers, turntables, and cartridges, the difference—though small—is quite noticeable.

Representative units of this kind are the Acoustech Model I transistor power amplifier and the Model II preamplifier which jointly yield 40 watts sine wave power per channel with a frequency response from 5 to 50,000 cps at full output with less than 0.5 percent distortion—all for \$734. And Harman-Kardon's all-transistor combination of the Citation A preamp and Citation B power amp provide 40 watts per channel sine wave power with a frequency response of 1 to 100,000 cps and 0.5 distortion for \$519.80 (factory-wired).

Confronted with such specifications, you

might ask: "What is the point of extending frequency response so far above and below the audible range? You couldn't hear those frequencies anyhow." The answer is that this extended range permits the amplifier to handle sudden sound bursts, called transients, with greater clarity. Transistor amplifiers with very wide frequency response (above 25,000 cps) are usually characterized by extremely clear sound texture, other factors being equal.

Another advantage of transistor units is their exceptionally low hum level, which permits the music to be heard against a background of almost complete silence. Some of the better transistor amplifiers have hum levels 80 and even 90 db below the signal level (at full output).

Transistor Tuners. One of the neatest items among transistorized tuners is the brand-new KLH Model 18 all-transistor stereo tuner. No bigger than a cigar box, it offers excellent sensitivity, selectivity, and ease of tuning for \$129.95 (factory finished). Its novel circuitry is extremely stable so that it won't need frequent realignment to stay in top performing condition. Low-cost kit designs are also available, notably the Heath AJ-33 (\$99.95) and AJ-43 (\$119.95), either of which also provide broadcast reception.

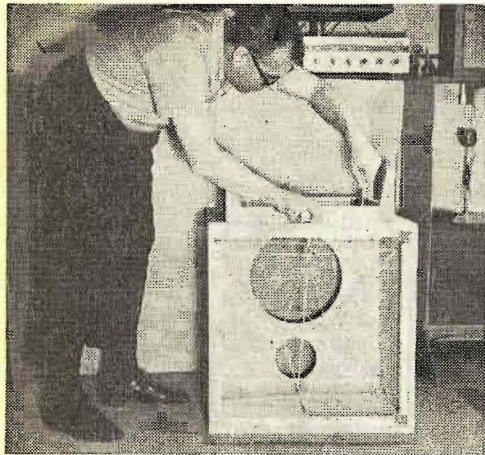
Among higher priced tuners, Harman-Kardon's F-1000T (\$299.95), Fisher's TF-300 (\$329.50), Scott's Model 312 (\$259.95) all boast excellent specifications and are providing convincing evidence that the problems of RF circuit design for transistors have been successfully solved.

The transistor's conquest of audio has been easiest in the tape recorder field. Tape recorders do not have to develop the high power levels that audio amplifiers must furnish and they do not have to deal with tricky RF circuits, as must FM tuners. On the other hand, compactness, sturdiness, and low power drain, three main virtues of the transistor, are a vital advantage in designing portable tape machines. So it is hardly surprising that the fully transistorized tape recorder is now the rule rather than the exception, and it becomes unnecessary to single out individual designs.

When you consider that only three years ago, only three companies were making transistorized hi-fi gear (a grand total of six different models), the present picture proves that the transistor take-over in audio has been completely successful. ■

Lab Check

Continued from page 78



At right base is being attached to bottom of cabinet. Note strings holding the unit together while glue sets. Above, speaker and acoustical material in place—now screw back on.

living rooms shown in hi-fi magazines.)

As is the case with any speaker, frequency curves are meaningless since each speaker has its own individual coloration, and you must make the decision yourself. But we highly recommend you listen to the 207A before you buy a speaker or speaker system.

Trying to keep the total system cost within that mythological figure called the "young married's budget," we had our choice of a small, finished, general purpose enclosure or the kit version of the Bozak Urban E-300U—which meant we had to do our own finishing. Since speakers usually sound best in a cabinet specifically designed for a given speaker we decided to go along with the kit. The completed kit is exactly the same as the finished models except for a savings of about \$30. The cabinet is an infinite baffle which preserves the speaker's smoothness, tonal balance, and excellent transient response.

The kit is assembled like any other piece of fine furniture: with screws and glue. While the assembly is notably easy—less than one hour—there's a major problem. Bozak assumes you have furniture clamps for gluing. Now not everyone has furniture clamps, and if one must purchase the clamps the savings are wiped out—it might even cost more in the long run. We got around the clamps by devising our own clamp system. As shown in the photograph, we attached cup hooks to the inside surfaces of the enclosure and held the assembly together with string purchased in a 5 & dime store—and

it worked just as well as the clamps.

The enclosure is made of $\frac{3}{4}$ -inch compacted-wood with a walnut veneer. It comes complete with matching legs and grill-cloth. You can lighten or darken the veneer with commercial finishing products.

The front panel is pre-cut for a 15 inch speaker and for a midrange, should you desire to add one at a later date. We found the cabinet equipped with only the 207A speaker gave a most pleasing sound. Nothing spectacular, no shattering "pumping lows" or ear straining highs, just a smooth natural quality—just that old fashioned kind of music you hear when seated before the recording group.

OUR IMPRESSIONS

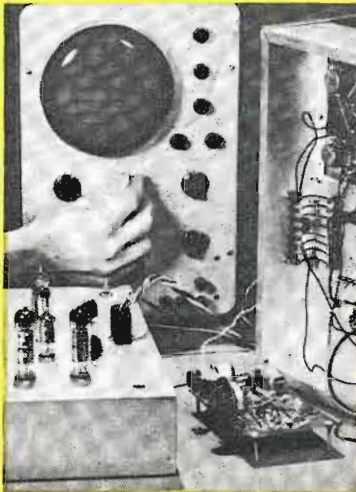
■ We were more than surprised at the *total* success of our selections, particularly how well the entire system met our assumed needs. Perhaps, if we'd done extensive showroom shopping and selected each component individually, we might have attained similar results. We can therefore recommend, that before you step through the door of your local showroom, you have the hi-fi system planned down to the minutest detail—you'll be most likely to get the system you want at the first try. You can be sure that the components in this system review will function equally as well in other systems—this is a typical characteristic of quality audio components. ■

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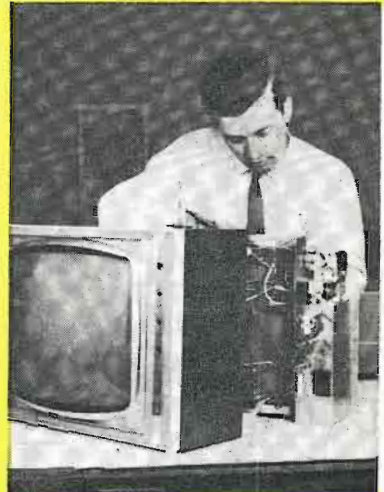
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