



One of the better multiop scores in the 1964 V.H.F. SS was turned in by K2SWI. WA2EVX is shown here manning the 50-Mc. position.



It was cold in the tent on Squaw Peak, 11,500-foot elevation in Colorado, scene of v.h.f. SS activity by K0HBT/Ø Operator is K0FHQ.

17th V.H.F. Sweepstakes

No Records — But Fine Country-Wide Activity

THE more than 1300 logs submitted in the ARRL V.H.F. Sweepstakes of 1964 show no new records. The paper pile is down slightly from the past two years, as are scores of individuals and clubs in most areas, thanks to an almost total lack of v.h.f. DX over the week end of January 4-5. It might have been a dull contest some years ago, but in 1964 it takes more than poor conditions to quell v.h.f. SS enthusiasm.

At least two entrants made more than 600 contacts. K3IPM/3 set the pace with 631 on 50, 144 and 220 Mc., winning the E.Pa. Section Award and top honors in the highly competitive Mt. Airy V.H.F. Club. Stan worked 85 stations in the first two hours of the contest, and was over the 200 mark in less than 6 hours. There is less than 2 hours time out in his log (night's sleep around 4 A.M.!), but the pace finally caught up with him and he quit at 10 p.m. Sunday. By this time he was safely in the lead, with 31,550 points. This record, by the way, was made with a Technician Class ticket. Out of curiosity about this alleged handicap, we checked the license class of 12 operators who made over 400 contacts. There were 3 Techs, 4 Advanced, 3 Generals, one Extra, one not given.

The other total over 600 was the 633 — 10 — 25,230 effort of the Zephyr V.H.F. Society of Northern New Jersey, where several operators of W2LST held forth from a high location. This was the top multiple-operator score of the contest.

Contact totals and scores are really significant only on a section basis, and this is how ARRL awards are made. Thus, K9TWF, 304 — 5 — 9120, Illinois winner, K8UQA, 392 — 12 — 17,248, Ohio leader, and many other section winners and near-winners deserve special plaudits. In almost every part of the country, it now

takes outstanding effort to win ARRL Section wallpaper.

One-band work was exceptionally rewarding this year. Section awards were won by at least 10 operators using only the 50-Mc. band, and 144-Mc. stalwarts captured 7. K2MLB, West Orange, N. J., used his big 6-meter arrays to good advantage in working 362 stations in 14 sections for 17,352 points and the NNJ award. W9ECV/2, Setauket, L. I., poured on the 50-Mc. coal to work 318 in 15, for 15,700 and the NYC-LI win. Incidentally, 12 out of the first 15 high scores in this section were one-band work; some on 6, others on 2. K8MMM, Novelty, Ohio, always a 6-meter threat, caught 294 in 14, for 14,112, placing second in Ohio to K8UQA.

Scores made on 144 Mc. only showed up very well, with 50 enjoying almost no DX openings. W3IBH, Philadelphia, led the 2-meter specialists, as he has done before, with 288 — 10 — 11,250. WB2NNL placed second in Northern New Jersey, with 219 — 13 — 10,074, on 144 only. VE3CIL worked 186 stations on 144 Mc. W1JZD, Groton, Mass., rolled up an impressive 14 sections on 144 Mc.

A surprising number of portable stations were in the fray, their operators, cooks and maintenance men braving snow-covered roads and sub-zero cold to make things interesting for the homebodies. We salute previously mentioned W2LST, and K2GLQ/3, K0HBT/Ø (operating from a tent on 11,500-foot Squaw Peak in Colorado), and many other hardy mountaineers. Note how portable work paid off for W6GAG/6 in the form of 470 contacts and 13,160 points, a real accomplishment for the Los Angeles Section under non-skip conditions. Multiop K2SWI, 391 — 14 — 18,768, W2BMW/2, 396 — 9 — 14,668, K2UDA, K2CBA, K1PLR, K6IXA/6,

CLUB SCORES

<i>Club</i>	<i>Valid Aggregate</i>	<i>Certificate Entries</i>	<i>Winner</i>	<i>Club</i>	<i>Valid Aggregate</i>	<i>Certificate Entries</i>	<i>Winner</i>
Mt. Airy V.H.F. Club (Pa.)	740,728	98	K3IPM/3	Metuchen YMCA Radio Club (N.J.)	11,864	3	K2YNT ²
South Jersey Radio Assn.	265,732	60	W2REB	Aeronautical Center Amateur Radio Club (Okla.)	9438	18	K5YEM
Rochester V.H.F. Group	143,887	109	K2YCO	6 Meter Club of Dallas	9408	4	WA5EYO
Mobile Sixers Radio Club (Pa.)	114,221	29	W3AWA ¹	Morris Radio Club (N.J.)	8808	4	K2SUX
6 Meter Club of Chicago	111,830	40	KOTWF	Lake Washington Amateur Radio Club	8472	4	K7RIE
Reading Radio Club (Pa.)	95,066	54	W3WJC	Motor City Radio Club (Mich.)	8107	10	WA8ARP
Central New Jersey V.H.F. Society	71,351	22	WB2BUR	Fulton Amateur Radio Club (N.Y.)	7836	8	WA2GVH
Cleveland 50 Mc. DX Club	66,450	15	K3UQA	Waltham Amateur Radio Assn. (Mass.)	7782	3	K1ZQU
Dayton Amateur Radio Assn.	49,969	22	W8KKF	Piedmont Amateur Radio Club (N.C.)	7408	3	K4QIF
Germantown Radio Club (Pa.)	38,426	10	K3TPS	Decatur Amateur Radio Club (Ala.)	7260	12	K4WHW
National Capital V.H.F. Society	37,460	11	W3LCC	Huntsville Amateur Radio Club (Ala.)	7244	7	K4IQU
Central Michigan Amateur Radio Club	36,861	38	W8BQD	Dutchess County V.H.F. Society (N.Y.)	6794	4	W2HZZ
Nipmuc Emergency Radio Corps (Mass.)	35,218	21	K1SLG	North Andover Amateur Radio Club (Mass.)	6393	3	W1LSV/1
Skokie Six Meter Indians (Ill.)	31,988	15	K9RRF	Michigan City Amateur Radio Club (Ind.)	5804	6	K9IDE
Scarborough Amateur Radio Club	30,054	33	VE3CIL	Opequon Radio Society (W. Va.)	5070	8	K8WXB
Gloucester County Amateur Radio Club (N.J.)	25,586	13	W2LVW	Windsor Amateur Radio Club	4424	5	VE3CXK
Rock Creek Amateur Radio Assn. (Md.)	25,150	19	K3VJH	Arlington Radio Club (Tex.)	3850	3	WA5HKD
Lake Success Radio Club (N.Y.)	24,944	13	K2JWT	Bronx High School of Science Radio Club	3600	3
Springfield Amateur Radio Club (Ohio)	21,207	17	{ W8KPZ K8MHJ	Tri-County Radio Assn. (N.J.)	3325	3	WA2ASM/2
1200 Radio Club (Mass.)	20,217	10	W1QIB	Triangle Amateur Radio Club (N.C.)	3040	6	WA4FJM
Southern California V.H.F. Radio Club	19,658	5	WA6WIZ	WCAU Amateur Radio Club (Pa.)	3000	3	W3GSC
Argonne Amateur Radio Club (Ill.)	19,312	16	W9LGI	Northeast High School Radio Club (Pa.)	2832	3	K3ZSN
East Coast V.H.F. Society (N.J.)	16,011	8	WB2DQS	Whitman Amateur Radio Club (Mass.)	2700	4	K1WYS
Greater Pittsburgh V.H.F. Society	15,352	14	W3OMY	Nittany Amateur Radio Club (Pa.)	2540	4	K3AKR
Delaware 6 Meter Net	15,148	3	K3AZH	Proviso East High School Amateur Radio Club (Ill.)	1980	3	WA9JYG
Valley V.H.F. Club (Ill.)	14,306	9	KODWR	Panama City Amateur Radio Club (Fla.)	1256	3	WA4FIJ
5 Towns Radio Club (N.Y.)	14,048	4	WA2YXS				
Syracuse V.H.F. Club	13,595	14	W2PFG				
MIC ARC (Pa.)	13,504	5	W3ZFM				

¹ W3HFY, opr. ² WA2KZV, opr.

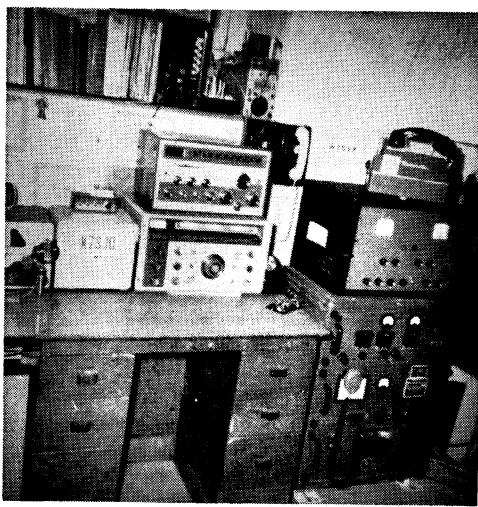
W6ULI/6, WA6WIJ/6, and many other staff-operated stations demonstrate that group entry in a v.h.f. contest can be productive and a lot of fun — win, lose or draw, winter or summer.

Another group effort, the club competition, is going stronger than ever. This feature is, in fact, the fuel that catches fire in the v.h.f. SS, at a time of year when v.h.f. activity would otherwise be at a low ebb. For the fourth year in a row, the Mt. Airy V.H.F. Club of Philadelphia won the gavel award for the top club entry, widening their margin over across-the-river competitors, the South Jersey Radio Association. Third place is held by another repeater, the Rochester V.H.F. Group, who hit this spot for the first time in 1963. Rochester had the largest number of participants, 109, but their situation on the western edge of the high-activity East Coast population center makes a high position in the club standings a real achievement.

Three new clubs appear in the top ten this year. The Reading Radio Club came up from nowhere to 6th place. The Central New Jersey V.H.F. Society shot up from 15th to 10th to 7th in three tries. The Cleveland 50-Mc. DX Club and the Germantown Radio Club are other newcomers.



Cramped, but warm—the 50-Mc. shack of W2LST, Zephyr V.H.F. Society, top-scoring multioperator entry in the SS. WB2AJK at work.



Activity was good in the northwest, according to K7SJQ, Portland, Ore., who worked 105 stations on 50, 144 and 220 Mc. with this neat layout.

Disqualifications

In accordance with V.H.F. SS Rules, the entry of K4HPR has been found invalid.

Soapbox

K2GLQ/S — "Going to the top of a snow-covered mountain in midwinter is pure idiocy! We took almost 6 hours to plow our way through 2½ miles of 15-inch snow, on a road that

is passable only in summer. All this to learn that one can not pile up a great number of QSOs when the station is set up 60 miles from the nearest activity center, even though on a high mountaintop. Never again in January — at least til next year!" K9TWF — (Illinois Section winner) — "Going to college, I miss a lot of operating time, but the contest allows me to make up a year's operating in one week end. Guess it takes a real contest bug like me to enjoy 32 hours straight." W9SID — "Didn't mean to get started in this, but . . . !" W2RHQ — "There should be awards for c.w.-only operators." WB2HSK — "How about a multiplier for Sixers?" W3LCC — "It was as if an iron curtain dropped around the MDC Section, but it made for a relaxed and enjoyable contest." K7YSE/W8NAF — "Best I could muster, with having the flu and all. Sure not the contest activity here there is back east." WA4FIJ — "39 QSOs in better than last year, but 1½ per hour is frustrating after the openings in June. Will be on 432 in the June Party." WA4MKZ — "Bad case of Contest Hangover — still hear receiver noise and 'WA4MKZ, this is — ringing in my ears!' W6GZK — "Why isn't there a contest that gives the home station an equal chance against those on mountain tops?" (There is, and this is it. W6GZK won the San Diego Section Award. The mountain-toppers were multi-operator stations, not competing with him.) W2KXG — "Best one yet, even though conditions were poor." K9KME — "Contest was really a lot of fun, but there was too little contest interest around Kansas City. In 100 contacts, I received 71 No. 1's!" WA2YDB — "Conditions were quiet, but we weren't!" K2HFL — "My highest contact total, but lowest number of sections!" K9VHP — "Things were fb on 2, but not enough contest activity on 6." WA2HNI — "Surprised to hear so many stations!" K8ZES — "Blew 5U4 after 2 hours. No spare, so built silicon-diode replacement and was back in 30 minutes — with extra watts." K2RGF — "With a Twoer you tune in stations with the rotator!" K9FMB — "Should be more c.w. We worked all out-of-section DX that way!"

— E.P.T.

SCORES

In the tabulation on the next pages, scores are listed by ARRL divisions and sections. Unless otherwise noted, the top scorer in each section receives a certificate award. The highest-scoring Novice also receives a certificate in each section where at least three such licensees submitted valid contest logs. A certificate also will be awarded to the highest scoring Novice from sections of less than three entries . . . that in the opinion of the Awards Committee displayed exceptional effort; footnotes denote these winners. Columns indicate final score, number of contacts, number of different sections worked, and the bands used. A represents 50 Mc., B 144 Mc., C 220 Mc., D 420 Mc., E 1215 Mc. Multioperator stations are shown at the end of each section tabulation.

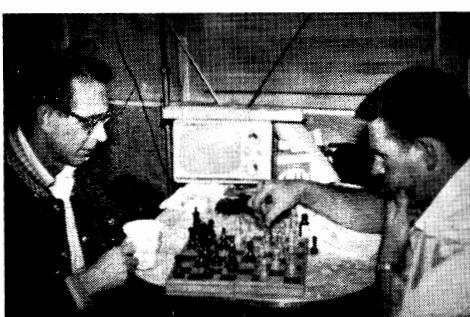
ATLANTIC DIVISION		W3IZU	W3YRT	7200-225- 6-AB	K3HSS	7182-257- 4-ABC	K3WRY	3810-127- 5-A	K3UGI	1664- 64- 3-AB
<i>Eastern Pennsylvania</i>		W3FSC	10,880-272-10-AB	K3FDR	3668-116- 3-A	W3FQD	1586- 61- 3-AB			
K3IMP/3 31,550-631-15-ABC		W3CCX ²	10,846-319- 7-AB	K3EFL	6868-114- 6-AB	K3IFH	1586- 61- 3-A			
W3KKN 23,299-507-13-ABC		W3PXT	10,692-297- 8-ABC	K3EML	6775-186- 8-A	K3JKC	1584- 66- 2-A			
W3MFY 20,538-489-11-ABC		W3CXU	10,624-332- 6-AB	W3UCA	6868-202- ABC	K3ZPA	3640-130- 3-AB	K3ZLA	1584- 58- 3-AB	
W3MXW 20,125-405-15-AB		W3ETB	10,540-310- 7-AB	K3MSV	6240-208- 5-A	K3CJV	2800-150- 2-AB	K3AYO	1508- 62- 2-AB	
K3IUZ 17,996-409-12-AB		K3EMR	10,268-303- 7-AB	W3ZTL	6210-207- 5-AB	K3JRO	3600-120- 5-AB	W3GLI	1488- 45- 6-AB	
W3LHF 17,178-409-11-ABC		W3AJF	10,080-280- 8-AB	K3ALX	6020-215- 4-AB	W3CPT	3552-111- 6-B	W3WED	1474- 67- 3-B	
K3LOM 16,280-407-10-AB		W3IXL	9826-289- 7-	K3MGO	5880-147-10-AB	K3HNO	3520-110- 6-B	K3VWS	1474- 67- 1-AB	
W3OR 15,488-352-12-AB		W3GXB	9648-268- 8-AB	K3VPP	5880-210- 4-A	K3SZR	3406-131- 3-A	K3VWT	1474- 67- 1-AB	
K3HGA 15,428-406- 9-ABC		W3CFCS	9500-250- 9-	K3TDH	6784-212- 6-A	K3OEA	3400-100- 7-A	K3IOJ	1440- 60- 2-AB	
K3IUU 15,414-367-11-ABC		K3TFS	9418-277- 7-AB	K3KTY	6675-186- 8-A	K3HAB	3380-130- 3-A	K3EMA	1430- 55- 3-AB	
W3HFP 14,916-339-12-ABCD		W3SPK	9252-257- 8-AB	K3SKP	5672-199- 6-A	K3DUW	3072-128- 2-A	K3TEF	1404- 54- 3-A	
K3ACR 14,544-404- 8-ABC		W3JSW	9234-259- 8-AB	W3UCH ³	5400-180- 5-AB	K3CIV	2860-110- 3-AB	K3ZSN	1404- 50- 4-A	
W3CL 14,436-401- 8-ABC		W3WJC	9146-271-11-AB	K3QMK	5220-175- 5-AB	W3WGR	2886-111- 3-B	K3RYR	1400- 50- 4-A	
W3AWA 14,168-322-12-ABCD		K3GAS	8862-211-11-AB	K3IHT	5200-200- 3-AB	K3WVZ	2712-113- 2-A	K3CBE/3		
W3HKZ 12,894-307-11-ABC		K3AUH	8228-242- 7-	K3ABK	5190-173- 5-A	K3SZG	2704-104- 3-AB			
K3JJZ 12,070-355- 7-ABC		K3FBA/3	8182-254- 6-AB	K3TBV	5699-168- 7-B	K3TDF	2620-66-10-AB	W3MCX	1344- 56- 2-AB	
W3IBH 11,520-288-10-B		W3ZEY	8018-211- 9-AB	K3KTY	5684-203- 4-A	K3CLQ	2610- 87- 5-AB	K3PTG	1344- 56- 2-AB	
W3SAO 11,520-320- 8-ABC		K3KVS	7956-234- 7-	W3OCH ³	5672-199- 6-A	K3GSC	2600-100- 3-AB	K3EGE	1326- 51- 3-B	
K3ECF 11,514-303- 9-AB		K3HWZ	7704-214- 8-	K3QMK	5220-192- 5-AB	K3VXO	2548- 91- 4-AB	K3TIZ	1326- 51- 3-B	
W3GEW 11,152-328- 7-AB		K3DAQ	7667-226- 7-AB	W3AYG	5376-192- 4-B	K3GZY	2424-104- 1-A	K3ZSI	1308- 60- 2-AB	
K3BHK 10,948-322- 7-AB		W3FTU	7650-255- 5-	K3LEA	5280- 85- 4-B	W3QAS	2400-100- 2-A	K3QHZ	1254- 57- 1-AB	
		K3CFO	7452-207- 8-A	K3RIT	4592-164- 4-A	K3BHM/3	2366- 85- 4-	W3UQC	1144- 52- 2-AB	
		W3NSI	7392-231- 6-	K3WIK	4590-135- 7-B	K3ABS	2310- 77- 5-AB	W3ITH/3		
		K3ODZ	4068-135- 8-AB	K3PGB	2210- 85- 3-A	K3DLS	2236- 86- 3-B			
		W3BMM	3990-130- 5-AB	K3ZTP	2184- 84- 3-A	K3GVS	2210- 85- 3-A			
		W3MVF	7200-240- 5-	K3GZT	2132- 82- 3-AB	K3PSX	1056- 48- 1-AB			
		ABC	ABC	K3PVK	2040- 85- 2-AB	K3CZI	1040- 33- 6-A			
		ABC	ABC	K3WQR	2004- 60- 7-A	K3YNN	990- 45- 1-AB			
		ABC	ABC	K3GZU	2002- 77- 3-AB	K3BUM/3				
		ABC	ABC	W3GK	1974- 69- 3-A					
		ABC	ABC	W3TQJ	1794- 69- 3-A					
		ABC	ABC	K3GXV	1768- 68- 3-A					
		ABC	ABC	K3WOB	1768- 68- 3-A					
		ABC	ABC	K3WQD	1768- 68- 3-A					
		ABC	ABC	K3EHQ	1742- 67- 3-A					
		ABC	ABC	K3MNI	1716- 66- 3-A					
		ABC	ABC	K3NZF	1680- 70- 2-A					
		ABC	ABC	K3MBO	1664- 64- 3-A					

K3WJQ	744- 31- 2-AB	K3EIW)	5640-188- 5-AB	WB2GPH	284- 11- 2-A	WA2YCM	1100- 50- 1-A	WA2LHM	(WA2LHM, WN1HF)
K3VFS	726- 33- 1-B		WA2WUN/2	K2SEV	240- 10- 2-A	WA2YPT	1056- 48- 1-A	WA2SOO	(WA2SOO, WB2s KIN LNP)
K3HUI	682- 31- 1-A	K3UBC (K3UBC, WA4NBM)	208- 8- 3-AB	W2QDY	192- 8- 2-A	W2ALL	1032- 43- 2-AB	K3JTH	1738- 79- 1-AB
K3KBG	682- 31- 1-A	K3YGG	5184-162- 6-AB	K2OHM/2	120- 5- 2-A	VE3DFY/W2	1032- 43- 2-B	WA2UTM	(2 oprs.)
K3KKM	676- 26- 3-A		2496- 96- 3-AB	WA2MGV/2	72- 3- 2-A	K2EAY	1012- 46- 1-A	792- 36- 1-A	
W3WOL	660- 30- 1-B	<i>Delaware</i>		K2UDA	(K2s MKD UDA) 14,640-366-10-AB	WA2GVH	990- 45- 1-AB	<i>Western Pennsylvania</i>	
W3BVR	624- 24- 1-B	K3AZH	5950-175- 7-AB	K2DUR	972- 81- 2-AB	WB2EUE	968- 44- 1-A	K3UQD	4536-126- 8-A
W3CDS	616- 28- 1-B	W3CGV	5598-156- 8-AB	WA2WUN	1028- TQJ WUN)	WB2JFL*	968- 44- 1-B	W3OMY	4484-118- 9-AB
K3ALQ/3	594- 27- 1-A		ABCDE	K2TNG	11,889-349- 7-AB	K2VBK	968- 44- 1-A	K3JTH	2240- 70- 6-AB
K3EGP	552- 23- 2-B	K3AFT/3	(K3s AFT IGX) 6360-159-10-A	WB2BNE	(WA2WLM, WB2BNE)	WA2ZWM	924- 42- 1-AB	W3UMY	1530- 51- 5-B
K3YJY	550- 25- 1-A			WB2BNE	10,368-324- 6-AB	WB2DRN	902- 41- 1-AB	W3BWU	1344- 42- 6-A
W3MVK	528- 20- 1-B	<i>Southern New Jersey</i>		WB2IPU/2	(5 oprs.)	K3AKR	1274- 49- 3-ABC		
K3TVY	506- 23- 1-A			5304-207- 3-AB	WA2ENW	902- 41- 1-A	K3WNZ	1104- 46- 2-A	
K3KRU/3	526- 23- 1-A	K3TNG	1300- 50- 3-A	WB2GBX	(2 oprs.)	K3VPI	1008- 42- 2-A		
K3HWZ/3	484- 22- 1-A	K2URP	104- 18- 4-AB	WB2GUN	(WA2WTA, WB2GUN)	K3WOD	946- 43- 1-A		
K3ODW	484- 22- 1-A	K3AFT/3	(K3s AFT IGX) 6360-159-10-A	WB2GUN	2886-111- 3-A	K3NOA	888- 37- 2-A		
K3MEM	480- 20- 2-A			WB2FYS/2	(4 oprs.)	K3QBI	840- 35- 2-A		
K3GAY	456- 19- 2-B	<i>Western New York</i>		702- 27- 3-B	WA2FYS	880- 40- 1-AB	K3TRN	840- 35- 2-A	
W3JKH	440- 20- 1-A	W2EIF	19,194-457-11- ABC	WB2FYS	902- 41- 1-AB	W3DJM	650- 25- 3-A		
K3VPP/3	440- 20- 1-A	W2REB		WB2IPU/2	(5 oprs.)	K3POG	572- 22- 3-ABC		
K3HWZ/3	432- 18- 2-A	WB2BLV	19,110-455-11-AB	WA2IPU	880- 40- 1-AB	K3ILD	416- 16- 3-B		
K3FOS	408- 17- 2-A	WA2EMB	14,800-374-10-ABD	WB2IPU	880- 40- 1-AB	W3KDM	408- 17- 2-B		
K3ZLZ	352- 16- 1-A	K2OKO	12,006-336- 8-AB	WB2IPU	880- 40- 1-AB	K3LIC	352- 16- 1-A		
K3KHV/3	338- 13- 3-A	WB2AXU	11,592-252-13-BC	WB2IPU	880- 39- 1-AB	K3LIF	336- 14- 2-A		
K3CPG	288- 12- 2-A	K2GUG	5922-141-11-B	WB2IPU	880- 39- 1-AB	K3LIV	288- 13- 1-A		
W3BQU	240- 10- 2-A	K2UGH	4642-106-12-B	WB2IPU	880- 39- 1-AB	K3TTP	232- 6- 1-A		
K3NDY/3	208- 8- 3-A	WB2CDP	10,872-302- 8-AB	WB2IPU	880- 39- 1-AB	KN3ZGJ	130- 5- 3-B		
K3TVZ	198- 9- 1-A	K2AJN	2904-121- 2-AB	WB2IPU	880- 39- 1-AB	K3LWT	88- 4- 1-A		
K3TQK	198- 8- 2-B	WA2QZQ	10,374-273- 9-ABC	WB2IPU	880- 39- 1-AB	W3VI	(6 oprs.)		
W3TQK	132- 6- 1-A		10,234-301- 7-AB	WB2IPU	880- 39- 1-AB	2346- 69- 7-A			
K3WZE	132- 6- 1-A	WB2ORA	12,306-293-11-AB	WB2IPU	880- 39- 1-AB	K3PHI	(K3s BBO PHI)		
K3NZB	132- 6- 1-B	WB2IPU	12,006-336- 8-AB	WB2IPU	880- 39- 1-AB	K3PCJ	(K3s NSV PCJ)		
K3NFMQ	120- 5- 2-A	WB2IPU	11,592-252-13-BC	WB2IPU	880- 39- 1-AB	K3FWM/3	(K3s FWM ZEN)		
K3QDO	120- 5- 2-A	WB2IPU	10,872-302- 8-AB	WB2IPU	880- 39- 1-AB	66- 3- 1-A			
W3DSM	66- 3- 1-A	WA2JNA	2886-111- 3-AB	WB2IPU	880- 39- 1-AB				
K3KTY/3	44- 2- 1-A	WA2QZQ	10,234-301- 7-AB	WB2IPU	880- 39- 1-AB				
K2GLQ/3	(K2s AWY GLQ HZN) 14,766-321-13-AB	WB2IPU	12,306-293-11-AB	WB2IPU	880- 39- 1-AB				
K3YFD	(8 oprs.)	WB2IPU	12,006-336- 8-AB	WB2IPU	880- 39- 1-AB				
	13,376-354- 9-AB	WB2IPU	11,592-252-13-BC	WB2IPU	880- 39- 1-AB				
K3WEU	(K3s WEU YPL) 7635-256- 5-A	WB2IPU	10,872-302- 8-AB	WB2IPU	880- 39- 1-AB				
K3QFQ	(K3s QFQ SNZ) 6384-228- 4-A	WB2IPU	2904-121- 2-AB	WB2IPU	880- 39- 1-AB				
K3YGH	(W3s GFN JUZ) 6090-203- 5-A	WB2IPU	2886-111- 3-AB	WB2IPU	880- 39- 1-AB				
K3OKW	(K3s ITG KNT LSC) 5040-140- 8-A	WB2IPU	10,234-301- 7-AB	WB2IPU	880- 39- 1-AB				
W3VPJ	(10 oprs.)	WB2IPU	12,306-293-11-AB	WB2IPU	880- 39- 1-AB				
K3REF	(W3A MTFU, K3REF)	WB2IPU	12,006-336- 8-AB	WB2IPU	880- 39- 1-AB				
	3948-141- 4-A	WB2IPU	11,592-252-13-BC	WB2IPU	880- 39- 1-AB				
K3MHD	(K3s MHD PWM) 3808-136- 4-A	WB2IPU	10,872-302- 8-AB	WB2IPU	880- 39- 1-AB				
K3TVG	(K3s SUI TVG UVJ) 3026- 89- 7-AB	WB2IPU	2904-121- 2-AB	WB2IPU	880- 39- 1-AB				
	Md.-D.C.	WB2IPU	2886-111- 3-AB	WB2IPU	880- 39- 1-AB				
W3JZY	6384-168- 9-AB	WB2IPU	10,234-301- 7-AB	WB2IPU	880- 39- 1-AB				
W4TYH/3	4028-106- 9-A	WB2IPU	12,306-293-11-AB	WB2IPU	880- 39- 1-AB				
W3LC	3600-120- 5-A	WB2IPU	12,006-336- 8-AB	WB2IPU	880- 39- 1-AB				
W3NG	3300-111- 5-A	WB2IPU	11,592-252-13-BC	WB2IPU	880- 39- 1-AB				
K3VJH	3276- 91- 8-B	WB2IPU	10,872-302- 8-AB	WB2IPU	880- 39- 1-AB				
W3CQH	3072- 96- 6-A	WB2IPU	2904-121- 2-AB	WB2IPU	880- 39- 1-AB				
K3AMG	2808-108- 3-A	WB2IPU	2886-111- 3-AB	WB2IPU	880- 39- 1-AB				
K3PPB	2470- 95- 3-A	WB2IPU	10,234-301- 7-AB	WB2IPU	880- 39- 1-AB				
W3CTJ	2252- 87- 3-A	WB2IPU	12,306-293-11-AB	WB2IPU	880- 39- 1-AB				
W3AQH	2080- 80- 3-A	WB2IPU	12,006-336- 8-AB	WB2IPU	880- 39- 1-AB				
W3HB	2002- 72- 4-B	WB2IPU	11,592-252-13-BC	WB2IPU	880- 39- 1-AB				
K3WTD	1976- 76- 3-A	WB2IPU	10,872-302- 8-AB	WB2IPU	880- 39- 1-AB				
K3UMV	1950- 65- 5-A	WB2IPU	2904-121- 2-AB	WB2IPU	880- 39- 1-AB				
K3NNG	1652- 61- 4-A	WB2IPU	2886-111- 3-AB	WB2IPU	880- 39- 1-AB				
W3GCO	1632- 68- 2-A	WB2IPU	10,234-301- 7-AB	WB2IPU	880- 39- 1-AB				
W3PIH	1482- 57- 3-B	WB2IPU	12,306-293-11-AB	WB2IPU	880- 39- 1-AB				
W7JCU/3	1368- 38- 8-B	WB2IPU	12,006-336- 8-AB	WB2IPU	880- 39- 1-AB				
K3PRP	1326- 51- 3-AB	WB2IPU	11,592-252-13-BC	WB2IPU	880- 39- 1-AB				
K3OJH/3	1280- 40- 6-A	WB2IPU	10,872-302- 8-AB	WB2IPU	880- 39- 1-AB				
W3AIR	1260- 42- 5-B	WB2IPU	2904-121- 2-AB	WB2IPU	880- 39- 1-AB				
W3RKE	1170- 45- 3-	WB2IPU	2886-111- 3-AB	WB2IPU	880- 39- 1-AB				
W3YAG	1118- 43- 3-A	WB2IPU	10,234-301- 7-AB	WB2IPU	880- 39- 1-AB				
K3QPV	1080- 45- 2-B	WB2IPU	12,306-293-11-AB	WB2IPU	880- 39- 1-AB				
W3BNL	1008- 45- 2-B	WB2IPU	12,006-336- 8-AB	WB2IPU	880- 39- 1-AB				
W3AX	936- 39- 2-A	WB2IPU	11,592-252-13-BC	WB2IPU	880- 39- 1-AB				
K3VGX	936- 36- 3-B	WB2IPU	10,872-302- 8-AB	WB2IPU	880- 39- 1-AB				
K3KEQ/3	900- 30- 5-B	WB2IPU	2904-121- 2-AB	WB2IPU	880- 39- 1-AB				
K3NZBQ/3	870- 29- 5-B	WB2IPU	2886-111- 3-AB	WB2IPU	880- 39- 1-AB				
K3EJF	806- 31- 3-A	WB2IPU	10,234-301- 7-AB	WB2IPU	880- 39- 1-AB				
K3LFL	806- 31- 3-A	WB2IPU	12,306-293-11-AB	WB2IPU	880- 39- 1-AB				
K3YJE	754- 29- 3-A	WB2IPU	12,006-336- 8-AB	WB2IPU	880- 39- 1-AB				
W3PNU	744- 31- 2-B	WB2IPU	11,592-252-13-BC	WB2IPU	880- 39- 1-AB				
K3DRL	720- 30- 2-B	WB2IPU	10,872-302- 8-AB	WB2IPU	880- 39- 1-AB				
W3OTC	650- 25- 3-A	WB2IPU	2904-121- 2-AB	WB2IPU	880- 39- 1-AB				
K3ZIB	650- 25- 3-A	WB2IPU	2886-111- 3-AB	WB2IPU	880- 39- 1-AB				
W3BNE	600- 25- 2-B	WB2IPU	10,234-301- 7-AB	WB2IPU	880- 39- 1-AB				
W3CMB	572- 22- 3-AB	WB2IPU	12,306-293-11-AB	WB2IPU	880- 39- 1-AB				
W3DHQ	432- 18- 2-B	WB2IPU	12,006-336- 8-AB	WB2IPU	880- 39- 1-AB				
W3JQN	432- 18- 2-B	WB2IPU	11,592-252-13-BC	WB2IPU	880- 39- 1-AB				
K3ZIC	416- 16- 3-A	WB2IPU	10,872-302- 8-AB	WB2IPU	880- 39- 1-AB				
W3NRD	240- 10- 2-A	WB2IPU	2904-121- 2-AB	WB2IPU	880- 39- 1-AB				
W9RDP/3	224- 8- 4-A	WB2IPU	2886-111- 3-AB	WB2IPU	880- 39- 1-AB				
K3HFP	(K3s HFP IQX) 1064-192-11-AB	WB2IPU	10,234-301- 7-AB	WB2IPU	880- 39- 1-AB				
K3ERM	(3/5 5- 5-B)	WB2IPU	12,306-293-11-AB	WB2IPU	880- 39- 1-AB				
	6741-161-11-AB	WB2IPU	12,006-336- 8-AB	WB2IPU	880- 39- 1-AB				
K3EIW	(K1WGF,	WB2IPU	11,592-252-13-BC	WB2IPU	880- 39- 1-AB				
		WB2IPU	10,872-302- 8-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	2904-121- 2-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	2886-111- 3-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	10,234-301- 7-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	12,306-293-11-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	12,006-336- 8-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	11,592-252-13-BC	WB2IPU	880- 39- 1-AB				
		WB2IPU	10,872-302- 8-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	2904-121- 2-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	2886-111- 3-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	10,234-301- 7-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	12,306-293-11-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	12,006-336- 8-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	11,592-252-13-BC	WB2IPU	880- 39- 1-AB				
		WB2IPU	10,872-302- 8-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	2904-121- 2-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	2886-111- 3-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	10,234-301- 7-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	12,306-293-11-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	12,006-336- 8-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	11,592-252-13-BC	WB2IPU	880- 39- 1-AB				
		WB2IPU	10,872-302- 8-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	2904-121- 2-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	2886-111- 3-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	10,234-301- 7-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	12,306-293-11-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	12,006-336- 8-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	11,592-252-13-BC	WB2IPU	880- 39- 1-AB				
		WB2IPU	10,872-302- 8-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	2904-121- 2-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	2886-111- 3-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	10,234-301- 7-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	12,306-293-11-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	12,006-336- 8-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	11,592-252-13-BC	WB2IPU	880- 39- 1-AB				
		WB2IPU	10,872-302- 8-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	2904-121- 2-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	2886-111- 3-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	10,234-301- 7-AB	WB2IPU	880- 39- 1-AB				
		WB2IPU	12,306-293-11-AB	WB2IPU	880- 39- 1-AB				

K9DKI 2080- 80- 3-A WA9JSW 2054- 79- 3-A K9TYH 2016- 72- 4-A WA9IIZ 2010- 67- 5-B WA9A/A/9 1924- 74- 3-B WA9AVE 1898- 73- 3-B K9KGI 1820- 65- 4-A K9RCN 1820- 70- 3-A K9UFA 1716- 66- 3-AB K9DTB 1568- 56- 4-A K9AMG 1512- 54- 4-A WA9CJW 1512- 63- 2-AB	K9VHC (K9s DOC VHC, W9NZF) 4654-170- 3-AB K9FMB (K9FMB, W9VWY) 588- 25- 2-A WA4SLI 384- 16- 2-A	WA4KVR/4 1134- 41- 4-AB K4FPV 588- 25- 2-A WA4SLI 384- 16- 2-A	W8BHF (4 oprs.) 2910- 97- 5-A K8ZKM (K8s CRM ZKM) 2834-109- 3-AB WNSICX (WNS 1CX KBJ KOS) 2268- 81- 4-B	K8PXX \$40- 35- 2-A WA9HCC 812- 38- 2-B K8ANJ 784- 28- 4-A WA8BIE 768- 32- 2-B W8HBJ 754- 29- 3-B		
WA9EOQ 1392- 58- 2-A K9FHM 1378- 53- 3-AB K9VZV 1296- 54- 2-AB WA9GYX 1224- 51- 2-A WA9AFO 1176- 42- 4-A K9RBI 1144- 44- 3-AB WN9IRZ* 1128- 47- 2-B W9CEJ 1120- 40- 4-B K9ALR 1104- 46- 2-AB W9ZEW 1066- 41- 3-AB WA9JYG 1056- 44- 2-A	K9QCB 4920-164- 5- ABC WA9GNC 2678-103- 3-A WA9DRR 2366- 91- 3-B K9WZB 2160- 72- 5-B K9CIF 1876- 67- 4-A WA9CYG 1066- 41- 3-B K9AJP 1040- 40- 3-AB K9JSI 988- 38- 3-AB K9QWJ 672- 28- 2-A	K9QCB 4920-164- 5- ABC WA9GNC 2678-103- 3-A WA9DRR 2366- 91- 3-B K9IDE 1624- 58- 4-B W9TWU 1248- 51- 4-B K9JTZ 1392- 58- 2-A K9HYV 1106- 39- 4-A WN9ILU* 1066- 41- 3-B K9AJP 1040- 40- 3-AB K9JSI 988- 38- 3-AB K9QWJ 672- 28- 2-A	Michigan W8BQD 4172-149- 4-AB K8PGZ 3696-132- 4-AB W8CKK 3692-142- 3-AB W8LVR 3042-117- 3-AB K8VX 2886-111- 3-AB W8AEF 2604- 93- 4-A WA8DZP 2380- 85- 4-B W8VRH 2310- 90- 3-B K8AZL 2324- 83- 4-A K8ZQE 2190- 73- 5-B W8OCK 2106- 81- 3-AB K8BZV 1872- 78- 2-B WN8HTL* 1872- 78- 2-B	W8BQD 4172-149- 4-AB K8PGZ 3696-132- 4-AB W8CKK 3692-142- 3-AB W8LVR 3042-117- 3-AB K8VX 2886-111- 3-AB W8AEF 2604- 93- 4-A WA8DZP 2380- 85- 4-B W8VRH 2310- 90- 3-B K8AZL 2324- 83- 4-A K8ZQE 2190- 73- 5-B W8OCK 2106- 81- 3-AB K8BZV 1872- 78- 2-B WN8HTL* 1872- 78- 2-B	W8APT (8 oprs.) 1170- 46- 3-B W8FLR/8 (WA8FLR, WN8IEU) 1128- 47- 2-B	W8APT (8 oprs.) 1170- 46- 3-B W8FLR/8 (WA8FLR, WN8IEU) 1128- 47- 2-B
WA9EYT 1040- 40- 3-AB K9PBN 1032- 43- 2-A K9FBM 1012- 46- 1-AB W9WJL 1001- 39- 3-B K9SQT 960- 40- 2-A K9WNK 960- 40- 2-A WA9ERC 938- 37- 3-AB WA9RIN 938- 39- 2-A WA9FTY 864- 36- 2-A K9GDN 820- 36- 2-A K9FER 792- 32- 2-A K9FTBZ 756- 27- 4-B WN9IYR 744- 31- 2-B WA9CXR 728- 26- 4-A WA9JCO 696- 29- 2-A W9CRN 672- 28- 2-B W9BZX 600- 25- 2-A K9VUX 598- 23- 3-B K9KMK 588- 21- 4-A K9ARA 552- 23- 2-A WA9DLI 552- 23- 2-A W9BYD 550- 25- 1-B K9DNW 528- 24- 1-A K9LGE 506- 23- 1-A W9DJR 504- 21- 2-B W9SKD 504- 21- 2-B W9YIG 432- 18- 2-B WA9FGO 408- 17- 2-A WA9DLH 384- 16- 2-A WN9KQD 330- 15- 1-B WN9IRX 308- 14- 1-B K9JYI 308- 14- 1-B WA9BHR 288- 12- 2-A K9OEE 280- 17- 4-B WA9FRE 280- 12- 2-A WA9CXB/9 264- 12- 1-A WA9GNE 242- 11- 1-B W9GQY 320- 10- 1-B K9MEB 320- 10- 1-A K9UQN 220- 10- 1-B W9DWE 198- 9- 1-A WN9HJR 132- 6- 1-B W9QVE 132- 6- 1-B K9ZAM (K9s COU ZAM) 7860-262- 5-ABD K9GBG (K9GBG, WA9EVF) 7392-264- 4-AB	K9YPE (K9YPE, W9FWK, WA9HAR) 4290-165- 3-AB WA9FLE (WA9s FHS FLH) 3130-120- 3-AB W9BF (5 oprs.) 3000-100- 5-AB WA9ANX (6 oprs.) 7924-23- 4-B K9YPE (K9YPE, W9FWK, WA9HAR) 4290-165- 3-AB WA9HTL* 1872- 78- 2-B	K9YPE (K9YPE, W9FWK, WA9HAR) 4290-165- 3-AB WA9HTL* 1872- 78- 2-B	K8CEB 1534- 59- 3-B K8WII 1508- 58- 3-A K8ZJY 1430- 65- 1-AB W8RXY 1378- 53- 3-B W8FSZ/8 1339- 52- 3-AB WA8BNQ 1320- 55- 2-AB K8ZNP 1056- 48- 1-AB W8VWY 948- 40- 2-B K8ZJU 912- 38- 2-B W8BCI 864- 36- 2-B K8PNV 804- 31- 3-A W8FEV 770- 35- 2-AB WA8FZ 754- 29- 2-A WA8PL 744- 31- 2-B K8SGA 720- 30- 2-B W8MPD 660- 28- 2-B W8CSR 616- 22- 2-B W8CQB 605- 28- 1-B W8NJI 572- 26- 1-B W8RZJ 528- 22- 2-B WA8GCO 506- 23- 1-AB K8TCU 484- 22- 1-B W8AVH 462- 21- 1-B W8NHSY 440- 20- 1-B K8JNZ 440- 20- 1-AB K8UJZ 396- 18- 1-AB WN8IPX 374- 17- 1-B W8JZV 374- 17- 1-B K8BZY 330- 15- 1-AB W8FSZ/7 330- 15- 1-B W8HKL 331- 15- 1-B K8ATU 298- 13- 1-A K8HGX 296- 13- 1-AB K8LWZ 286- 13- 1-B W8SSK 264- 12- 1-A K8YGW 264- 12- 1-B WA8DQK 242- 11- 1-AB WA8IBU 242- 11- 1-B W8SGW 242- 11- 1-B K8ZRX 220- 10- 1-A W8SVR 176- 8- 1-B K8ZQH 176- 8- 1-AB W8BSR 154- 7- 1-B K8ICI 154- 7- 1-A W8FZ 132- 6- 1-B K8TIW (10 oprs.) 4500-150- 5-AB	W8BHF (4 oprs.) 2910- 97- 5-A K8ZKM (K8s CRM ZKM) 2834-109- 3-AB WNSICX (WNS 1CX KBJ KOS) 2268- 81- 4-B W8BQM (K8TKC, WA8BQM) 2236- 86- 3-AB W8NLF (WSATC, W8NLF) 2058- 74- 4-B W8JHF (2 oprs.) 1170- 46- 3-B WA8FLR/8 (WA8FLR, WN8IEU) 1128- 47- 2-B K8UQA 17,248-392-12-AB K8MM 14,112-294-14-AB K8TOL 8094-213- 9-A WA8BCA 8 7412-218- 7-A W8EIC 7236-201- 8-A W8KK 6760-260- 3-AB KSZES 6426-189- 7-ABC WA8DSN 6344- 52- 3-AB WA8ARP 1820- 70- 3-AB K8CEB 1534- 59- 3-B K8WII 1508- 58- 3-A K8ZJY 1430- 65- 1-AB W8RXY 1378- 53- 3-B W8FSZ/8 1339- 52- 3-AB WA8BNQ 1320- 55- 2-AB K8ZNP 1056- 48- 1-AB W8VWY 948- 40- 2-B K8ZJU 912- 38- 2-B W8BCI 864- 36- 2-B K8PNV 804- 31- 3-A W8FEV 770- 35- 2-AB WA8FZ 754- 29- 2-A WA8PL 744- 31- 2-B K8SGA 720- 30- 2-B W8MPD 660- 28- 2-B W8CSR 616- 22- 2-B W8CQB 605- 28- 1-B W8NJI 572- 26- 1-B W8RZJ 528- 22- 2-B WA8GCO 506- 23- 1-AB K8TCU 484- 22- 1-B W8AVH 462- 21- 1-B W8NHSY 440- 20- 1-B K8JNZ 440- 20- 1-AB K8UJZ 396- 18- 1-AB WN8IPX 374- 17- 1-B W8JZV 374- 17- 1-B K8BZY 330- 15- 1-AB W8FSZ/7 330- 15- 1-B W8HKL 331- 15- 1-B K8ATU 298- 13- 1-A K8HGX 296- 13- 1-AB K8LWZ 286- 13- 1-B W8SSK 264- 12- 1-A K8YGW 264- 12- 1-B WA8DQK 242- 11- 1-AB WA8IBU 242- 11- 1-B W8SGW 242- 11- 1-B K8ZRX 220- 10- 1-A W8SVR 176- 8- 1-B K8ZQH 176- 8- 1-AB W8BSR 154- 7- 1-B K8ICI 154- 7- 1-A W8FZ 132- 6- 1-B K8TIW (10 oprs.) 4500-150- 5-AB	K8PXX \$40- 35- 2-A WA9HCC 812- 38- 2-B K8ANJ 784- 28- 4-A WA8BIE 768- 32- 2-B W8HBJ 754- 29- 3-B WA8DOM 726- 33- 1-AB WA9CSJ 704- 32- 1-AB K8UMN 648- 27- 2-A WA8FZS 638- 29- 1-B K8LEA 552- 24- 2-A W8SK 528- 24- 1-A K8WQE 517- 25- 1-B WA8KTK 308- 14- 1-B W8PTF 308- 14- 1-B W8WUZ 242- 11- 1-A W8OG 240- 10- 2-B K8YVA 168- 7- 2-B W8ORK 88- 5- 1-B WA8AKK (W8UU, WA8AKK) 1450- 175- 3-AB W8LT (8 oprs.) 1450- 150- 4-AB WNSIYH (WNS IVH KGS) 2550- 85- 5-B WA8HPY (WA8s HPY) 2114- 76- 4-AB WA8CRG (WA8s CRG) 1680- 70- 2-A	
K8MM 14,112-294-14-AB K8TOL 8094-213- 9-A WA8BCA 8 7412-218- 7-A W8EIC 7236-201- 8-A W8KK 6760-260- 3-AB KSZES 6426-189- 7-ABC WA8DSN 6344- 52- 3-AB WA8ARP 1820- 70- 3-AB K8CEB 1534- 59- 3-B K8WII 1508- 58- 3-A K8ZJY 1430- 65- 1-AB W8RXY 1378- 53- 3-B W8FSZ/8 1339- 52- 3-AB WA8BNQ 1320- 55- 2-AB K8ZNP 1056- 48- 1-AB W8VWY 948- 40- 2-B K8ZJU 912- 38- 2-B W8BCI 864- 36- 2-B K8PNV 804- 31- 3-A W8FEV 770- 35- 2-AB WA8FZ 754- 29- 2-A WA8PL 744- 31- 2-B K8SGA 720- 30- 2-B W8MPD 660- 28- 2-B W8CSR 616- 22- 2-B W8CQB 605- 28- 1-B W8NJI 572- 26- 1-B W8RZJ 528- 22- 2-B WA8GCO 506- 23- 1-AB K8TCU 484- 22- 1-B W8AVH 462- 21- 1-B W8NHSY 440- 20- 1-B K8JNZ 440- 20- 1-AB K8UJZ 396- 18- 1-AB WN8IPX 374- 17- 1-B W8JZV 374- 17- 1-B K8BZY 330- 15- 1-AB W8FSZ/7 330- 15- 1-B W8HKL 331- 15- 1-B K8ATU 298- 13- 1-A K8HGX 296- 13- 1-AB K8LWZ 286- 13- 1-B W8SSK 264- 12- 1-A K8YGW 264- 12- 1-B WA8DQK 242- 11- 1-AB WA8IBU 242- 11- 1-B W8SGW 242- 11- 1-B K8ZRX 220- 10- 1-A W8SVR 176- 8- 1-B K8ZQH 176- 8- 1-AB W8BSR 154- 7- 1-B K8ICI 154- 7- 1-A W8FZ 132- 6- 1-B K8TIW (10 oprs.) 4500-150- 5-AB	HUDSON DIVISION Eastern New York K2YRZ 4680-130- 8-B WB2BML 2688- 84- 6-A W2HZZ 2660- 70- 9-B WB2GSK 2355- 79- 5-AB W2LWI 2700- 45- 13-B W2H 1280- 40- 6-BC W2CTH 1960- 49- 10-AB WA2ZPD 1860- 62- 5-B K2BGU 1748- 46- 9-AB K2GCH 1632- 48- 7-AB WB2FXB 1064- 38- 4-B WB2EFT 806- 31- 3-A WA2HQA 552- 23- 2-AB WA2DRF 504- 21- 2-A K2UKE 432- 18- 2-B WN2IFW 352- 16- 1-B WN2IQL 286- 13- 1-B K2CBA (K2C CBA ISA TMB) 13,152-274-14-ABCD N. Y. C.-L. I. W9ECV/2 15,700-318-15-A K2JWT 5880-147-10- ABC WA2YXS 5716-131- 8-B WB2DZE 4832-151- 6-A WA2NZA 4500-125- 8-A W2TUK 4464-140- 6-AB WA2OOL 4454-131- 7-B WB2CNT 4352-136- 6-B W2KXG 4170-139- 5-B W2RPZ 3520-310- 6-B K2OTZ 3392-106- 6-B W2NB1 3094- 91- 7-B WN2LGX* 2820- 94- 5-B WB2BAY 2760- 92- 5-AB					



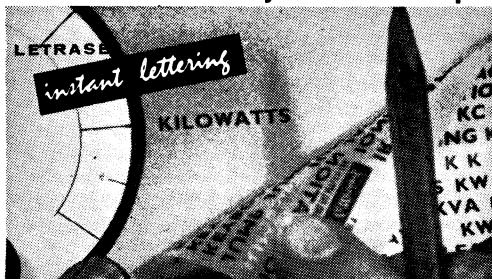
(left) This imposing array of gear is the 6-meter position of K2GLQ/3, High Knob, Eastern Pennsylvania Section. K2AWY and rolling up the points. (right) With a capable staff of assistant operators taking over K6MDG/6, WB6DRX (left) and K6MDG enjoy a bit of diversion in one of the camper-type vehicles employed by the v.h.f. sweepstakes expedition to Santiago Peak in the San Diego Section.



WN2HFE	2400- 75- 6-B	K2TTI	2312- 68- 7-B	K1LSP	1088- 34- 6-B	New Hampshire	ROANOKE DIVISION	
WA2IKN	2030- 73- 4-B	WB2LIG	2304- 72- 6-A	KIFUY	960- 30- 6-B	North Carolina		
WA2DRK	1802- 53- 7-B	WB2IXE	2250- 75- 5-A	WIREJ	960- 40- 2-AB	K4QIF	3304-118- 4-	
WB2BQJ	1710- 45- 9-AB	WB2EPU	2224- 70- 6-AB	KIOAV	900- 30- 5-B	W2NSD/1 ¹³	5280-121-12-A	
WB2FCB	1695- 57- 5-B	WA2REM	2176- 64- 7-B	KISXF	888- 37- 2-B	W1FZ/1	5220-145- 8-	
WA2ZCK	1680- 56- 5-B	WN2KLID	2080- 65- 6-B	KIQNF/1	768- 32- 2-B	ABC	WIBXM	4180- 95-12-B
W2AGT	1496- 44- 7-B	WA2EDF	1860- 62- 5-AB	W1AJS	598- 23- 3-B	W1PBT	2926- 77- 9-B	
W2QAN	1484- 53- 4-AB	WB2ADV	1740- 58- 5-B	W1AW ¹⁰	576- 24- 2-AB	K1JRL	1590- 53- 5-AB	
WN2LUU	1470- 49- 5-B	WB2EZY	1610- 59- 4-AB	W1DZA	528- 22- 2-B	K1JDY	1545- 52- 5-AB	
WN2IQB	1414- 51- 4-B	WA2KZP	1512- 54- 4-AB	KIQPN	528- 22- 2-B	KN1ZWF*	1120- 40- 4-B	
WN2LAI	1344- 48- 4-B	WA2NQE/2	1456- 52- 4-A	W1YDS ¹⁰	130- 5- 3-A	WISWX/1	110- 5- 1-B	
W2TN1	1326- 51- 3-B	WA2UHE	1290- 43- 5-A	K1YFE/1	1895-224-12-AB	W1HPM	(oprs.)	
W2BNX	1260- 45- 3-B	WB2AWT	1196- 46- 3-B	K1YFE/1	4180-110- 9-B	W1ALE	W1ALE	
K2PWG	1188- 33- 8-A	WA2ZSN	1176- 42- 4-AB	K1PKQ/1	3173- 94- 9-B	YQH)	6120-153-10-AB	
W2CWD	1144- 44- 3-B	WA2IJI	1136- 36- 6-B	K1TRS	(K1s TBA TRS)	Rhode Island		
WA2QCF	988- 36- 3-AB	KL7ELA/2	1120- 40- 4-B	KIVIK/1	1708- 61- 4-AB	K1PAM	630- 21- 5-A	
WB2GDD	924- 33- 4-AB	WA2ZEB	1120- 40- 4-B	KIVIK/1	FDZ	WIOP	K1s JIV LPL)	
WB2FZV	840- 30- 4-A	WA2ZDA	1092- 39- 4-AB	WA1ANP	WA1s ANB	10,032-264- 9-AB		
WA2TKL	784- 28- 4-A	W2SMJ	1066- 41- 3-	API	480- 20- 2-A	Vermont		
WA2EUS	780- 30- 3-	WA2PTN	992- 31- 3-B	K1OYB	336- 14- 2-AB	K1RSJ	1290- 43- 5-B	
BD	BD	WN2LKD/2	910- 35- 3-B	K1KKK	288- 12- 2-AB	W1EXZ	396- 17- 2-AB	
WA2OUM	750- 25- 5-B	WA2WSI	896- 28- 6-B	K1MTJ	672- 28- 2-AB	NORTHWESTERN		
W2ZSD	728- 26- 4-AB	WN2KQD	576- 81- 6-B	W1MHL/1	(4 oprs.)	DIVISION		
WN2KTX	692- 22- 4-A	WA2ZPTN	992- 31- 3-B	K1OYB	336- 14- 2-AB	Idaho		
WB2JYE	624- 24- 3-B	WA2ZDA	910- 35- 3-B	K1KKK	288- 12- 2-AB	K7UGD	396- 15- 9-AB	
WA2RWV	616- 22- 4-A	W2SMJ	1066- 41- 3-	K1MTJ	672- 28- 2-AB	Montana		
WA2ZKJ	508- 23- 3-B	WA2PTN	992- 31- 3-B	W1MHL/1	(4 oprs.)	Eastern Massachusetts		
WB2CSH	450- 15- 5-B	WN2LKD/2	910- 35- 3-B	K1OYB	336- 14- 2-AB	K1YDG	7714-204- 9-AB	
WA2UKI	396- 18- 1-A	WA2WSI	896- 28- 6-B	K1YDG	7020-176-10-AB	W1QIB	7020-176-10-AB	
WA2YKH	364- 14- 3-B	WN2KQD	576- 81- 6-B	K1AICQ	5776-152- 9-A	WA1ACQ	5776-152- 9-A	
WB2ATZ	280- 10- 4-AB	WA2YJY	888- 37- 2-B	W1JZD	5640-118-14-8	W1JZD	5640-118-14-8	
WA2DWZ	264- 12- 1-AB	WN2JMT	884- 34- 3-B	K1QOG	5080-127-10-AB	W1QOG	5080-127-10-AB	
WA2VFD	96- 4- 2-A	WA2CCF	644- 23- 4-AB	K1KZQ	4794-141- 7-B	K7SQJ	2520-105- 2-	
W2Y1S	96- 4- 2-A	W2SMF	616- 22- 4-A	K1CHY	4352-128- 7-B	ABCE	K7GWE/7	2352- 98- 2-
WN2IK1	48- 2- 2-B	WA2IQU	504- 21- 2-A	K1DIR	3800-100- 9-A	ABCD	K7WXW	1008- 42- 2-AB
K2SWI (7 oprs.)		K2DM1	494- 19- 3-B	K1WEI	3232-101- 6-B	K7EAU	1008- 40- 2-A	
18,768-391-14-ABC	K2MHP/2	476- 17- 4-B	W1OOP	2930- 73-10-	Washington	W1LSV/1	2737- 81- 7-AB	
W2BMW/2 (11 oprs.)	K2JRP/2	468- 18- 3-A	K1WYS	2340- 78- 5-A	K7RJE	464-248- 3-AB		
14,668-396- 9-AB	WB2IMT	462- 21- 1-B	K1PIV	2304- 72- 6-A	K1PKS	2278- 67- 7-A		
WA2YDZ (WA2YDZ)	1458-32- 7-B	WA2FNN	432- 18- 2-AB	K1PLX	2220- 74- 5-A	K1PLX	2220- 74- 5-A	
WA2HIC (WA2HIC)	3090-103- 5-B	W2LRO	416- 16- 3-B	W1EUD	2130- 71- 5-B	W1EUD	2130- 71- 5-B	
WA2TZA	2850- 95- 5-B	WA2UZH	361- 12- 5-B	K1JJQ	2006- 59- 7-A	K1JJQ	2006- 59- 7-A	
WB2ESZ (WB2ESZ FLP)	2592- 81- 6-AB	WA2UZH	124- 6- B	K1ZNU	1920- 60- 6-B	K1ZNU	1920- 60- 6-B	
WB2UAH (WB2UAH GME)	1246- 45- 4-AB	WA2TCE	110- 22- 4-A	K1JSE	1836- 54- 7-A	K1JSE	1836- 54- 7-A	
Northern New Jersey		W2LST	(multi-0-9)	K1YJC	1800- 60- 5-B	K1YJC	1800- 60- 5-B	
K2MLB	17,352-362-14-A	WA2VLR	4 (ops.)	K1ZNR/2	1792- 56- 6-B	K1ZNR/2	1792- 56- 6-B	
W2NNL	10,074-219-13-B	W2SXO	18,260-415-12-AB	K1DVX	1760- 55- 6-B	K1DVX	1760- 55- 6-B	
WB2BUR	9284-211-12-A	K2MPD	9320-233-10-AB	W1LSM	1708- 61- 4-AB	K1WVQ	1708- 61- 4-AB	
WB2CWG	9030-215-11-A	K2MPD (K2s JRP MPD, W2AGK)	1980- 66- 5-A	K1DRB	1600- 50- 6-B	W1QWQ	1932- 69- 4-B	
WA2VPI	8056-212- 9-AB	WA2TCE	110- 22- 4-A	K1VHD	1568- 49- 6-B	WA6IP1	1530- 51- 5-A	
W2GKR	7701-227- 7-AB	W2LST	(multi-0-9)	K1ZUA	1312- 41- 6-B	WA6UAM	1040- 40- 3-B	
WA2KRX	7452-207- 8-AB	WA2VLR	4 (ops.)	K1HSI	1280- 40- 6-A	WA6VIN/6	(WA6s UJX VIN, WB6IQX)	
K2HFL	7308-203- 8-AB	WA2PTN	920-233-10-AB	KN1FOM*	1274- 49- 3-B	K6DTR	4500-150- 5-AB	
K2YNT	6650-175- 9-B	K0KME	2388-100- 2-A	K1OUY	1230- 41- 5-A	WA6QQH	1932- 69- 4-B	
WA2JSW	6480-180- 8-AB	K0KVG	1176- 49- 2-AB	K1SVF	1148- 41- 4-A	WA6UAM	1040- 40- 3-B	
WB2DQS	6264-176- 8-ABC	K0RNZ	984- 41- 2-B	K1CQX	962- 37- 3-C	WA6VIN/6	(WA6s UJX VIN, WB6IQX)	
K2RCF	6500-130-10-B	WA0DZI	192- 8- 2-A	K1KYB	930- 31- 5-B	K6RJE	(multi-0-9)	
WA2WAJ	5100-150- 7-AB	WA0ELE	416- 16- 3-B	K1ZGH	1780- 6- 5-B	1596- 57- 4-AB		
WB2GMR	5094-144- 8-AB	WA0CHD	624- 26- 2-A	K1N1FJM	734- 29- 3-B	WB6BIG (WA6ZLV, WB6BIG)	2232- 93- 2-AB	
WA2QCQ	5024-157- 6-A	K0BYR/0	(K0s BYR CWPs)	W1JVL	689- 27- 3-BC	728- 28- 3-AB		
WA2JVO	4480-112-10-AB	WA0CSD	312- 13- 2-A	W1AFCR/1	132- 6- 1-AB	East Bay		
K2RMD	4480-140- 6-AB	WA0DJK	576- 24- 2-A	K1UMP	72- 3- 2-A	WA6NCX	2886-111- 3-AB	
WA2UDT	4320-120- 8-AB	NEW ENGLAND		K1UMI	48- 2- 2-A	K61XA/6	(K61XA, WA6ZBX)	
K2KIB	4182-123- 7-B	DIVISION		K1UMI	48- 2- 2-A	7365-246- 5-AB		
WA2HNI	4047-107- 9-	Connecticut		WA1BNA	(4 oprs.)	K9CCD/6	(2 oprs.)	
WN2GKF*	3904-122- 6-B	W1RJA	12,048-251-14-AB	K1HDP	11,670-291-10-AB	WA6KLL	4860-162- 5-A	
WA2WIL	3872-102- 8-B	W1HKL	9639-230-11-B	K1HDP	(oprs.)	1575- 53- 5-BC		
K2SUX	3502-103- 7-B	W1HDO	7848-165-14-ABD	K1HDP	5436-154- 8-A	San Francisco		
WN2KDD	3264-102- 6-B	K1PKW	4872-116-11-B	K1HDP	1582- 57- 4-AB	WA6WIJ/6	4350-145- 5-AB	
WN2LEB	3049-109- 4-B	W1WHL	4220-108-10-B	K1HDP	1582- 57- 4-AB	WA6YYM	4350-145- 5-AB	
K2HHB	2985-100- 5-B	W1PHR	3743- 99- 9-AB	K1HDP	1582- 57- 4-AB	WA6VX/1	3690-123- 5-B	
W2EEW	2924- 86- 7-B	K1ION	2700- 75- 8-B	K1HDP	1582- 57- 4-AB	WB6CXT	910- 35- 3-A	
WA2AYZ	2720- 85- 6-A	K1QGC	2584- 68- 9-B	K1HDP	1582- 57- 4-AB	WB6CXT	468- 18- 3-B	
WA2CMG	2550- 75- 7-AB	W1MEH	2084- 43-14-B	K1HDP	1582- 57- 4-AB	Sacramento Valley		
WA2ASM/2	2415- 81- 5-B	W1KE ¹⁰	1786- 47- 9-B	K1HDP	1582- 57- 4-AB	K6PWH	1176- 42- 4-AB	
		W1KE ¹⁰	1290- 43- 5-B	K1HDP	1582- 57- 4-AB	W6HBU/6	(7 oprs.)	
		K1RMS	1232- 44- 4-B	K1HDP	1582- 57- 4-AB	K4QIF	2790- 94- 5-ABC	
		K1MDZ	1170- 45- 3-AB	K1HDP	1582- 57- 4-AB	K4WHW	481- 19- 3-B	
		K1PVT	1128- 47- 2-B	K1HDP	1582- 57- 4-AB	W6GFM (W6s FGM IFZ)	481- 19- 3-B	
		K1PAI	1128- 47- 2-B	K1HDP	1582- 57- 4-AB	W6GDO (W6s GDO TEE)	448- 16- 4-ABC	
						WB6AGM (K6s SBL SFA, WB6AGM)	390- 15- 3-B	
						WA4OGQ	1248- 48- 3-A	
						K4VJL	1104- 46- 2-AB	
						WA4EBS	1032- 43- 2-AB	
						W4YFN	960- 40- 2-AB	
						W4YRM	936- 39- 2-A	
						WA4GGG	864- 37- 2-A	
						W4EAO	744- 31- 2-AB	
						W4APH	744- 31- 2-AB	

(Continued on page 164)

**Because you've got to SEE it to BELIEVE it
..... we will send you a FREE sample!**



A REVOLUTIONARY NEW METHOD FOR MARKING ELECTRONIC EQUIPMENT

Try this sample and you'll agree "Instant Lettering" is the easiest, quickest way to get professional lettering you've ever seen. Self-adhesive letters printed on a special plastic sheet are just pressed down into position on any equipment, drawing, schematic, etc. Transfers instantly to practically any surface. Looks like printing.

AVAILABLE IN THE FOLLOWING SETS AT \$4.95 EACH

- TITLES FOR ELECTRONIC EQUIPMENT
- TERMINAL & CHASSIS MARKING KIT
- METER & DIAL MARKING KIT

With these three kits you can completely mark prototype electronic equipment from component parts to finished control panel and meters—and make them look like finished production equipment.

In stock at leading electronics distributors or direct.

SEND FOR FREE SAMPLE AND FOLDER

THE DATAK CORPORATION

63 71ST STREET • DEPT. 6111-2 • GUTTENBERG, NEW JERSEY

CQ de W2KUW

\$500.00

Paid For

51X RECEIVERS 17L TRANSMITTERS

Equally good prices for: ARC34 ARC38 ARC44 ARC52 ARN14 SG13 SG13 SG66 ID249 ID250 ID251 ID351 ID387 R390 H14 Tektronix 535 545 HP608 624 and 618S transceivers. Any Collins Radio unit. Also FRR, GRC, PRC, URR units and all test sets for aircraft or ground service. Ship Air Freight subject to your approval to

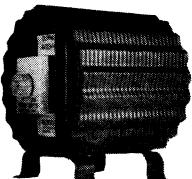
TED DAMES CO., 308 HICKORY ST., ARLINGTON, N.J.

CANADIANS! We have large stocks of nationally advertised Ham parts. Write for Free Bulletin.

THE CRAWFORD RADIO

P. O. BOX 617

VE3YR 119-121 JOHN ST., N. VE3JU
"Geo" HAMILTON, ONT. "BIII"



DUMMY ANTENNA

Gentec Dummy Antennas have been engineered to produce compact, stable, RF loads.

FUNCTION

Gentec Dummy Antennas permit transmitter adjustments under electrical conditions duplicating actual antenna conditions but convert and dissipate all the electrical power as heat. This function prevents radiation and thus eliminates TVI, QRM and associated problems. Transmitters can readily be peaked for top DX operation.

Power Rating: **\$1195** Terms: C.O.D. plus postage, or Postpaid in U.S.A. when check is included with order.

Impedance 50 ohms
VSWR Less than
1.1/1.0
(DC to over
250 MC)

125 Watts—Steady State
250 Watts—ICAS

GENTEC INCORPORATED, P.O. Box 233, Raritan, New Jersey

17th V.H.F. SS

(Continued from page 37)

WA4NWI	648- 27- 2-A	W5HUU	1100- 50- 1-AB
K4BEI	598- 23- 3-A	K5EZG	1056- 48- 1-AB
W4PEX	572- 26- 1-A	K5OCX	814- 37- 1-A
WA4GNG	550- 25- 1-A	K9MVJ	5/792- 36- 1-AB
WA4KMA	480- 20- 2-A	W4EYV	748- 34- 1-AB
W4LSQ	338- 13- 3-AB	W5FMX	682- 31- 1-AB
K4ROB	286- 13- 1-A	W5WAX/5	
W4BFM	264- 12- 1-A	WA5BPK	572- 16- 1-AB
K4UVF	176- 8- 1-A	W5EUL	484- 22- 1-AB
K4GRQ	132- 6- 1-A	WNSHWH*	
W4FQQ/4 (W4FQQ, WA4KTI)	840- 35- 2-A	W5HXL	418- 19- 1-B
WA4YSN	770- 35- 1-A	W5GICN	418- 19- 1-B
K4NTD	648- 27- 2-	W5HPF	188- 19- 1-AB
WA4FJJ	1014- 39- 3-AB	W5NHTL	312- 17- 1-B
WA4MAC	110- 5- 1-B	W5VRV	352- 16- 1-B
		K5PBE	264- 15- 1-B
		W5EHG	220- 16- 1-B
		WA5BPI	108- 9- 1-A
		K5AWD	176- 9- 1-A
		W5JKK	154- 7- 1-A
		W5UYQ	132- 6- 1-AB
		Southern Texas	
		WA5AUU	336- 14- 2-A

CANADIAN DIVISION

Georgia

W4YZE 374- 17- 1-B

WA4MKZ (K4SLX,
W4WKP, WA4MKZ)

2134- 97- 1-AB

Eastern Florida

WA4FJJ 1014- 39- 3-AB

WA4MAC 110- 5- 1-B

Western Florida

WA4FJJ 1014- 39- 3-AB

WA4MAC 110- 5- 1-B

Southwestern Division

Los Angeles

WA6SLF 3770-145- 3-B

WA6WIZ 1638- 63- 3-A

K6STI 1296- 54- 2-B

WA6OPI 884- 34- 3-B

WA6TAW 648- 27- 2-A

WA6GAG/6 (WA6AAT
GAG, WB6BYL)

13,160-470- 4-AB

W6ULL/6 (4 oprs.)

8512-305- 4-AB

K6BPC (4 oprs.)

3328-128- 3-AB

Arizona

K7YSE 1452- 66- 1-A

K7ZDQ 1386- 63- 1-

San Diego

W6CZE 4096-128- 6-AB

WA6LVS 1716- 72- 3-B

K6MDG/6 (4 oprs.)

4758-183- 3-AB

WB6IMW/6 (WA6WPG,
WB6S CFC FCR)

1820- 70- 3-A

Santa Barbara

WA6UPX 528- 24- 1-B

W6NLO (K6QPV,
W6NLQ, WB6BAL)

2548- 91- 4-AB

W6UFJ/6 (4 oprs.)

2430- 81- 5-AB

W6OUL/6 (4 oprs.)

984- 41- 2-B

West Gulf Division

Northern Texas

WA5YEQ 2832-118- 2-A

K5MLD 2424-101- 2-A

K5IVB 2112- 88- 2-A

K5CMC 2040- 85- 2-A

WA5HDK 1760- 80- 1-A

K5ZKS 1386- 63- 1-A

WA5DCH 704- 32- 1-AB

Oklahoma

K5YEM 1848- 84- 1-AB

WA5DWK 1287- 59- 1-AB

W5LOW 1144- 52- 1-

ABD

Quebec

VE2ALE 1148- 41- 4-B

VE2AQH 1036- 37- 4-AB

*

¹ W3HFY, opr. ² K3HJA, opr. ³ W3BN, opr. ⁴ K3SPS, opr.

⁵ WA2OAA, opr. ⁶ K9EBC, opr. ⁷ WSOCK, opr. ⁸ K8OLB, opr.

⁹ WA2KZV, opr. ¹⁰ Hz. Staff, not eligible for award. ¹¹ W1QIS, opr.

¹² K1RYE, opr. ¹³ K1FTG, opr.

RADIO HANDBOOK

800 pages of clear, simple theory, and complete, practical how-to-build data.

Book #166 . . . \$9.50 (Foreign \$10.50)

From your electronic parts distributor or

EDITORS and ENGINEERS, Ltd.

Summerland 7, California 93067