



June VHF QSO Party Results

WB2GKE/1, VT

REPORTED BY RICK NISWANDER,* WA1PID

ZAP! KAPOW! WHAM! Thud! No, that's not Batman and Robin battling against the forces of evil . . . ah, no! That's actually the sound of records being broken — June VHF QSO Party records, to be precise.

Without a doubt, the June 8-10 installment of this annual event exhibited the best overall contest conditions on 6 meters since the late 50s and possibly the best since the contest started. No less than six multiop entries broke the 6-meter multiplier record of 57 set by W5RAG/5 in 1970, with WB2HUC/9 setting the new mark of 69. K8LEE broke his own single op 6-meter multiplier record with 62 this year. As these marks show, it was fairly *E_{sy}* to work sections on 6.

With the help of the superb conditions, multi-band scoring records were shattered. K2RTH set a new single op multiplier total with 101 in addition to surpassing the old 220 record by three. K6YNB/6 had 81 multipliers — not breaking the old total but representing an extremely good number for the western reaches. Four multi groups broke the overall multiplier high of 106 set last year. VE3ONT, WB2GKE/1, W3CCX/3 and WA1MUG all topped the old mark with MUG taking the brass ring again with 122 multipliers.

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Multiop and singleop divisional records were smashed from coast-to-coast. In fact, in only two divisions was not one or both marks shattered. Although the all-time divisional-records box chronicles the new record-holders, a few comments on some of this year's pacesetters may prove interesting.

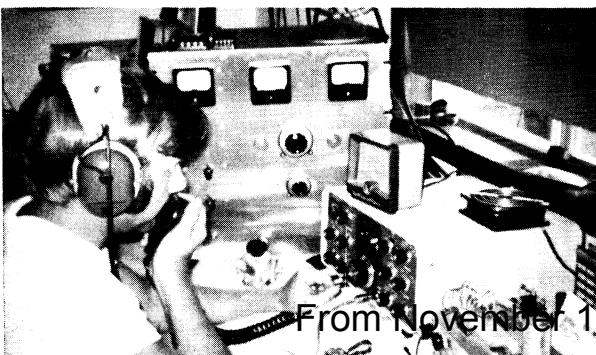
The first over-40K single op score was recorded by K6YNB/6. This effort obliterated his 1973 Southwestern Division mark and put Wayne in the number one spot nationwide in the June bash for the second time in as many years. Another excellent job, Wayne!

K2RTH and WB2ZVS had a real battle for the Hudson Division single op crown — both breaking the 1966 record of 31K held by WA2FGK — with RTTH coming out on top.

The multiop record of 125K was set by WA1MUG last year. This time they crushed it once more with an astronomical 172K effort, W1DC/1, up New Hampshire way, also broke the old mark with a 130K score. The Mt. Airy group, W3CCX/3, registered the first over-100K multiop score from the Atlantic Division and came less than 1000 points shy of the old nationwide score. Fine job by all these groups.

W0OHU/0 clobbered the Midwest Division multiop mark by just about 20K with a fine 33K score. Their 6-meter multiplier total of 65 is the highest ever recorded by a zero.

The gang at K5WVX broke their own West Gulf Division record with a 33K showing this year. A 6-element beam on 6 at this Oklahoma QTH helped them amass 68 multipliers on that band. FB!



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QST for

High above the campus at Illinois State University is K9ORP installing the 6-meter beam at WA9LEF/9. A high level of man-made noise and 50 mph winds plagued the group over the weekend.

Multiops W8CCI and WA8PLZ wrestled for the Great Lakes Division crown — both smashing the old mark by over 15K — with W8CCI taking the top spot by only 1574 points.

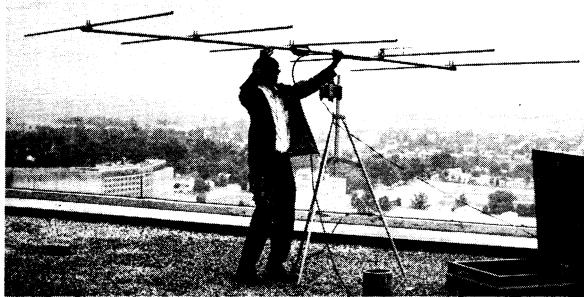
The operating time change instituted this year (from two 14-hour periods to 28 out of 35 hours with half-hour or longer "off times") was accepted with enthusiasm. Suffice it to say that this change will continue to be used in the QSO Parties.

Many comments were received on the use of 2-meter fm during the contest — a number quite vociferous in opposition. The Contest Advisory Committee (W1BBD chairman, WA2BLV, W3BQV, K4BAI, W5RUB, W6PAA, K7NHV, W9LT, WA0CVS, VE7CC and KH6IJ) would like your comments on this subject. Should the use of 2 fm be banned entirely during contests? Should it be limited only to simplex frequencies such as .52 (no working backwards on repeater channels)? Should it be left alone? What is *your* opinion? Write to the CAC c/o ARRL Hq. We'll make sure each member gets a copy of your letter.

Log returns were up slightly this year — 358 as compared to 345. Awards are scheduled for an October 15 mailing.

Soapbox

Happy to be back on 6 after some 12 years. Used to be very active as W1ZTT in Conn. — (W7ABX). Either lightning or static wiped-out the front end of the Vanguard converter. Thought signals were weak Saturday night. Sunday morning we switched to the old Tecraft and started hearing things again. Sincere apologies to those who called in vain Saturday. — (K9GWT). Thanks for the new time rule. Sure fits in better with meals and regular sleep. — (CF3FHM). Six-meter E_s was fantastic! We worked 45 states, missing only Idaho, Utah and Montana on the continent. — (VE3ONT). Look for me from Alaska next year. — (W4OPN/5). This was the first contest that Murphy really gave me a thrashing. The six meter antenna went kaput . . . the HV variac went sour . . . the 220 transmitter went west . . . I could go on and on. We sure had



DIVISION LEADERS

Single Op.	Division	Multiop.
WA3QPX	Atlantic	W3CCX/3
K9UVJ	Central	WB8HUC/9
K0ALL/0	Dakota	.
WB4JGG/4	Delta	W5UK/5
K8LEE	Gr. Lakes	W8CCI
K2RTH	Hudson	WA2SNA/2
WA0ZAX	Midwest	W0OHU/0
WA1NGR	New Eng.	WA1MUG
K7GWE	Northwestern	W7FHZ/7
W6KQG	Pacific	W6YKM/6
W4UCH	Roanoke	K3LNZ/8
W7VDZ	Rocky Mt.	W0NRI
WA4CQG	Southeastern	W4WDH
K6YNB/6	Southwestern	WA6WM/6
W5SXO	West Gulf	K5WVX
VE2DFO	Canadian	VE3ONT

fun repairing everything. — (K1WHS). Saturday was great but Sunday was a real bummer. I was going for multipliers Saturday and figured that I would shoot for score on Sunday. The best laid plans of mice and men . . . — (K5ZMS/5). Geographically, the most widespread E_s heard in over 12 years of 6-meter operation. — (WA4CQG). The best DX of VE3ONT (around 2000 miles) with the 1.5 watts was really the highlight. — (WB6NMT/6). The QSOs with California were a real thrill. I'd never heard a W6 on six meters before and in the space of a couple of hours I heard all sections from 6-land. If only I could have worked as many sections as I heard. — (W1AIM). This had to be one of the most fantastic VHF QSO Parties ever. — (WA3CSP/3). Six meters sounded like one of the low bands on Saturday evening. Hope the fall contest is half this good. — (WA8KIW/8).

TOP TEN

Single Op.	Multiop.
K6YNB/6	46,494
K2RTH	37,875
K8LEE	37,114
WB2ZVS	35,478
WA1NGR	33,259
W2CRS	28,220
K7GWE	20,515
K8III	19,089
WB8BGY	18,420
W5SXO	18,414

Single Op.	Multiop.
WA1MUG	172,142
W1DC/1	130,620
W3CCX/3	124,526
WB2GKE/1	82,622
VE3ONT	82,188
K1ABR	61,074
W8CCI	57,602
WA8PLZ	56,028
WA2SNA/2	39,270
K2DEL/2	38,808

The 432 setup at WB2FKJ/2. The Dutchess County VHF Society group garnered over 21K to snag first spot in ENY.



Min. Sections	30	15	4	3	1	Min. Sections	30	15	4	3	1	Min. Sections	30	15	4	3	1
MHz.	50	144	220	432	1215	MHz.	50	144	220	432	1215	MHz.	50	144	220	432	1215
VE2DFO	35	15	4			K4PCL	37	10				K7CIN	44	1			
VE3FHK*	39	11				K2YRZ/4	37	2				K9DKW/7*	42	6			
VE3ONT*	56	26	13	13		W4BFB/4*	49	7	4			K7GWE	51	3			1
VE4AS	19	3	3			W4FJ	11		8			K7ICW	45	5			
VE7SL	32					W4GG/4*	43	3				K7IDX	50				
K1ABR	45	19	12	11		W4PAR/4*	48	3				K7IEY/7*	38	3	2	1	
K1GYT	37	8				W4SGI*	49	7				K7PXI	43				
K1OQJ						W4TRC/4*	39	10				K7ZCB/7*	38	3	2	1	
K1WHS*	33	15	9	10		W4UCH	37	14	7	6		W7FHZ/7*	26	3	3	1	
K1ZGB	38	10				W4VHJ	11		3	1		W7JRG	42				
W1AAI	12	12	4	1		W4VO/4*	38	5	1			W7VDZ	46				
W1CLB*	20	12	5	2		WA3BSZ/4	33					WA7KYZ	50	2			
W1DC/1*	42	21	16	14	12	WA4CAD/4	36	4				WA7RTA	40	2			
W1EUJ	24	12	10	11		WA4CQG	53	4				K8BBN*	57	8		4	
W1FMF	10	9	5	3		WA4GCH	31					K8HHW*	26	11	4		
W1JOT						WA4GPM*	38	5				K8III	38	25			
W1YTW	32	12	11	9	1	WA4MV1	32	6				K8LEE	62	12		3	
WA1CQW	39					WA4WZQ	31	7				K3LNZ/8*	42	15	9	11	
WA1FFO	20		11			WB4EOW/4*	59					K8SUB/8*	47	8			
WA1FSZ/1	33	10				WB4JGG/4	56	6				K8UQA					
WA1GTP*	29	18		6		WB4NFA	42	2				W8AEC	16				
WA1KGP*	34	15		1		WB4VLH*	51					W8BI*	33	3			
WA1MPG	31	4				WA5CBT	43	1				W8CCI*	44	13		3	
WA1MUG*	51	22	20	19	10	WA5FW	32					W8KPY	43	22			
WA1NGR	39	16	13	11		WA5WIB	32					W8NRM	40	10	1	4	
WA1OLK	30	10				K5WVX*	68	8	1	4		W8TTU	44	3			
WA1OUB	37	9				K5ZMS/5	36					WA8CDF*	42	4			
WB2GKE/1*	52	23	14	16	4	WA5QBX	30					WA8CIW/8	32				
K2ARO/2*	26	13	3	11		WA5QDX	39					WA8PLZ*	64	15	3	2	
K2BF						WA5SXD	57	5	1	2	1	WB8BGY	47	10			
K2BWR*	35	19	14	9		WA5UK/5*	52	3				WB8BK	40	11			
K2CBA*	36	10	5	8	1	W5YPX	57					WB8KAY	39	6			
K2DEL/2*	39	18	14	13		WA6LYF	45					WB8LAG*	42	2	1		
K2LJG						K6BPC/6*	42	9	6	6	2	WB8OCX	43				
K2OVS	12	18				K6KQK/6	13	5	7	5		WB8RDY	34	2			
K2RTH	48	21	17	15		K6LJK	15					WB8RHJ	37	5			
W2CNS	24	21				K6OAX	36	7	6			K9DZS	35				
W2CRS	38	20	12	13		K6SSN	32	5	1	1		K9REE	48				
W2OMS						K6YA/6*	31	7	4	4		K9RSF	40	5			
WA2BLM*	33	12	5	3		K6YNB/6	55	11	7	8		K9TKE*	34	4			
WA2FZW	36	12				W6BXO	20	6	4	5		K9UVJ	44	8	4	4	
WA2KHL/2*	34	18				W6KOG	40	6				K9YHB*	42	5	1	1	
WA2SNA/2*	44	18	7	8	2	W6LMF	20	4	3	5	1	W9ABA	34	3			
WA2VTR	13					W6YKM/6	32	9	8	6	4	W9C01	33				
WB2CUT	15					W6YKS	31	4				W9JDJ	58	6		2	
WB2FKJ/2*	25	22	14	9		WA6GYD	24	3	3	4	2	WA9CPN	41	2			
WB2OTK	51					WA6HXM*	39	7	3	5		WA9HHH*	53	8			
WB2VWW	19					WA6MBP	5					WA9SUJ	42	7			
WB2ZVS	45	15	11	10		WA6MHZ	34					WB9EDP	48	2			
W3ARW/3	20	15	12	6		WA6NRV	37	8				WB9EPZ	32				
W3BWW	36	3				WA6UMI/6*	48	10	6	5	2	WB9GEN*	47	5		2	
W3CCX/3*	42	23	18	19	11	WA6WSN/6	23	6	3	2	1	WB8HUC/9*	69	4			
W3CGV	4	1				WB6JNN/6	15					K0ALL/0	51	3			
W3IOH	37	6				WB6KAP	15	5	4	5		K0MST	50	2			
W3JMY/3	45					WB6NKO	7	6				K0TLM*	52	6		2	
W3LUL	18					WB6OKH/6	42	7	4	5		K0VXM	40	4		1	
W3PGA/3*	22	13	8	8								W0NR1*	46				
W3TMZ	23		2									W0OHU/0*	65	11	2	2	
WA3BRW/3*	28	20		14								WA0CSL	44	3			
WA3QPX	32	18	8	7								WA0ZAX	45				
WA3RJM	30	1										WB0ELN	37	1			
WB2LZD/3*	33	20	13									WB0ITA/0	41	2		1	
K4EJQ	48	9	0	1								WB0IWG	53				
K4GL	42	8		2													
K4GMP*	45	3															

Single Operator			Division			Multi Operator		
Call	Score	Year	Call	Score	Year	Call	Score	Year
K3IPM	37,989	68	Atlantic			W3CCX/3	124,526	74
K9HMB	18,886	72	Central			WB9HUC/9	24,238	74
K0ALL/0	13,068	74	Dakota			W0OHU/0	21,420	73
WA5RMS	16,740	70	Delta			W5UK/5	18,535	74
K8LEE	37,114	74	Great Lakes			W8CCI	57,602	74
K2RTH	37,875	74	Hudson			WA2WEB/2	89,572	71
W9ECV/0	15,822	68	Midwest			W0OHU/0	33,120	74
WA1NGR	33,259	74	New England			WA1MUG	172,142	74
K7GWE	20,515	74	Northwestern			W7VE/7	20,076	73
K6YNB/7	19,654	72	Pacific			WA6JUD	36,380	73
K4VWH	13,780	61	Roanoke			K3LNZ/8	28,182	74
W7VDZ	13,110	74	Rocky Mtn.			W0WYZ/0	16,412	63
W4GJO	32,292	62	Southeastern			K4VSG	13,300	61
K6YNB/6	46,494	74	Southwestern			K6BPC/6	40,260	63
W5SXD	19,398	72	West Gulf			K5WVX	33,696	74
VE2DFO	8910	73	Canadian			VE3ONT	82,188	74

VE		WB2GKE/1 (K20WR WA2s AOL BAT DBD NXD ZOW WB2s UQT WHC WIK)	W3CGV 144- 12- 9-ABD Eastern Pennsylvania	7222-157-46-AB
Quebec		6642-119-54-ABC	W3JMY/3 82,622-681-109-ABCD	WA4WSA/4 (+WA4s CGM ZIA WB4SSA)
Ontario		405- 27-15-A	K3ATL 4095-105-39-AB	4522-133-34-AB
VE3WL		CF3FHM 117- 39- 3-B	WA3RJM 3720-120-31-AB	WB4IJT/4 (+K4CJZ WA4IHA WB4JC1)
VE3ONT (VE2YU VE3Os ABO BBH CDX DSS DXI EMS FIB GFY K8MMM WB8WI)		82,188-722-108-ABCD	WA3CSP/3 1050- 50-21-AB	1748- 76-23-AB
VE3FHK (+VE3FHU)		8800-176-50-AB	WA3KRD/3 798- 42-19-A	Northern Florida
Manitoba		8800-176-50-AB	WA3RCA (WA3TMR, opr.)	W4CSS 154- 14-11-A
VE4AS	1300- 48-25-ABD	172,142-1288-122-ABCD	504- 36-14-AB	South Carolina
Saskatchewan		2	WA3PNW/3 451- 41-11-A	K4GL 5512-104-52-ABD
British Columbia		1118- 43-26-A	K3AAR 299- 23-13-A	WB4NBK 210- 21-10-A
VE5MG	608- 38-16-A	1118- 43-26-A	W3GOA 60- 10- 6-A	WB4BFB/4 (WA2TLA K4s BWS JEY
Western Massachusetts		1118- 43-26-A	WA3KFT 18- 9- 2-AB	LLV MOQ SAN W4NUS AMU CES
VE7SL	2560- 80-32-A	1118- 43-26-A	WA3KFT/3 7- 7- 1-A	APD IPO VCC WB4s AMU CES
VE7AZG	768- 47-16-ABD	1118- 43-26-A	W3CCX/3 (K2EVM W2EIF K3s ACR BPP GAS JJJX IGX PM	CCW GBE GVZ IBW NDB PCS
VE7ASM/7 (VE7s AFB ALJ ASI BBB BLG BN FQ)		3393-117-29-AB	ZKO ZSG W3s CJU HMU HQT	WAW YFC WN4ICM)
U.S.A.		3393-117-29-AB	ELX ZD WA3s AXV JUF DJF	19,080-313-60-ABD
I		3393-117-29-AB	NFV (NGK)	Southern Florida
Connecticut		21,700-260-70-ABCD	124,526-937-113-ABCD	K2YZR/4 6084-156-39-AB
WA1NGR	33,259-376-79-ABCD	WA2BLM (+WA1PDK)	WA3BRW/3 (+K3ts BTU RYL YWX W3BBS WA3s PNY UFU UGP)	WB4BND 4455-135-33-A
WA1CQW*	5538-142-39-A	16,907-304-53-ABCD	20,336-308-62-ABD	WA4CAD/4 3840- 96-40-AB
WA1HYN	2944- 92-32-AB	K2ARO/2 (+K2BGU WA2s CGS HRE YOV WB2NPR)	WB2LZD/3 (+K2s HYM YSX	WA3BSZ/4 3168- 96-33-A
WA1FFO	2697- 68-31-BD	10,388-169-53-ABCD	WA2BKO WB2s IUU YJT)	WA4GCH 2883- 93-31-A
WH1DQ	676- 52-13-AB	WB2EQD/2 (+WA2s MBB RUW SVC WB2s BXL CCY WN2s GLY RKI SDM)	19,602-278-66-ABC	Tennessee
WIFEZ	430- 43-10-B	8346-214-39-AB	W3ARW/3 (+K3SQO W3GF)	WB4JGG/4 14,694-237-62-AB
WIKHM	286- 26-11-AB	N.Y.C.-L.I.	7950-120-53-ABCD	K4EJQ 10,324-177-58-ABD
WIFEF	230- 23-10-B	K2RTH 37,875-323-101-ABCD	K3YFD (WA3s IFL MPO QJB REX TGT)	WA4GIG 15- 5- 3-B
WA1HYN	210- 21-10-A	K2OVS 5376-111-42-ABD	6336-192-33-AB	W4S4G (+K4QHB W4s LQE PPR RO ZXH)
WIWEE	147- 21- 7-B	WB2OZA 1178- 62-19-AB	Maryland-D.C.	16,296-291-56-AB
K1BNO	98- 14- 7-AB	WA2PMW 1020- 85-12-B	W3KMV 5986-146-41-AB	Virginia
WA1INL	75- 25- 3-B	K2PAY 768- 48-16-A	WA3DMF 3392-105-32-ABD	11,648-169-64-ABCD
WA1GTP (+K1VY)	11,660-209-53-ABD	WA4FVY/2 380- 38-10-A	W3TMZ 2325- 91-25-BD	K4PCL 7614-162-47-AB
WA1SKS/1 (WA1PTK WN1SXH)	48- 12- 4-B	K2F2B 330- 15-11-D	K3NXH 2112- 88-24-A	WA4SIQ 4860-135-36-AB
Eastern Massachusetts		WA2SRH 128- 16- 8-B	W3LUL 1080- 60-18-B	WA4YEB 4216-124-34-AB
KIDAT	3105-115-27-AB	WA2KUX (WA2s QAL SRI WB2s GQW OLD YAO WN2RSI)	WA3PNO 950- 50-19-A	WB4UKA/4 2420-121-20-AB
WA1FCD	2538- 94-27-AB	2120-106-20-AB	W3ZPO (WA3WJD, opr.)	WB4WIW/4 1168-146- 8-B
WIAAI	2072- 70-28-ABD	Northern New Jersey	828- 46-18-A	W4FJ 1064- 44-19-BD
WIMX (W2HQH, opr.)	1716- 76-22-ABC	WB2ZVS 35,478-388-81-ABCD	W3HH 738- 41-18-A	WB4TBV 1008- 48-21-A
W1DKD	1071- 51-21-A	WA2FZW 10,128-211-48-AB	WA3LND 728- 56-13-AB	WA4NTV 496- 31-16-A
WA1MKE	770- 55-14-AB	W2OMS 2162- 45-23-DE	WA3NNZ 420- 42-10-B	K4FTO 451- 41-11-B
WA5IOD/1	645- 43-15-AB	WB2CUT 1710-114-15-B	K3BA 374- 34-11-B	K4MSG 112- 14- 8-AB
K1OJQ	552- 23-12-C	WB2VWW 1140- 60-19-B	WA3EQQ 352- 32-11-B	WB0HMXH/4 88- 11- 8-A
WA21TR/1	152- 38- 4-B	K4BCN/2 736- 46-16-AB	WA3WJD 105- 35- 3-B	WA4EPI 4- 4- 1-A
W1JOT	52- 6- 4-DE	WA2GEZ 168- 28- 6-AB	WA3SEE 98- 14- 7-B	W4TRC/4 (K2KDP K4LSP W4HKKU WA4s JCF ZAL WB4s GJW MPJ RIX)
Maine		WA2FAX 104- 13- 8-A	W3PGA/3 (K3s PHH ROJ YZY W3s JEH VRD WA3s LAW OTZ SCR)	14,553-297-49-AB
W1YTW	13,585-174-65-ABCDE	WA2BHB 55- 11- 5-B	12,648-227-51-ABCD	WA4GPM (+WA4DOX)
W1GYZ	24- 6- 4-B	K2RLW 50- 10- 5-B	Western Pennsylvania	9030-210-43-AB
K1WHS (+K1UTI)	17,085-218-67-ABCD	WA2NSA/2 (K2s BJJ MJZ VAC W2s ISN TFM WA2s ANQ DTJ SLR UPK WB2s BCA FVZ KKO LPV LPX QEA QQQ)	W3IOH 5805-135-43-AB	WB2LAI/4 (+WA4ILH)
WA1KGP (+K1s GAX MTJ RQE VBL)	9500-188-50-ABD	39,270-482-77-ABCD	W3BWH 4914-126-39-AB	5810-166-35-AB
New Hampshire		K2DEL/2 (K2KDQ WA2s BSU CRF CXS DNU JNQ NKL NLP WB2s AYZ NTE QQU VLC)	W3DJM 496- 31-16-A	West Indies
W1EUJ	13,224-202-57-ABCD	38,808-412-84-ABCD	W3ANX 410- 41-10-B	WIHOY/KP4 1680- 80-21-A
WA1OUB	8648-188-46-AB	WA2KHL/2 (+WA2UDT WB2s LDE LYP)	K2HKK (WA2CVD K3RBH W3HDH WA3IFC)	5
WA1FSZ/1	8550-162-50-ABD	20,904-402-52-AB	3384- 94-36-AB	Arkansas
W1EMF	3186-107-27-ABCD	WB2ENJ (WA2s AUH QAM YYN)	4	K5MWH 216- 24- 9-B
W1JSM	228- 19-12-B	155- 31- 5-A	WA3HIT/5 4- 4- 1-B	
W1DC/1 (K1s BFF KEC LOG MUC NZQ SVF W1s BXI GGM GXT GUU PVF QXX WA1s GVF HON IZO KPS LXU MSK NEL NPN OAM OML OZI PBV PRH RUJ W1RSP WB2CUM K 3 W KV)	130,620-1100-105-ABCD	Southern New Jersey	Louisiana	
W1CLB (K1s ATL ETT MON VOF WPM W1KZG WA1s IML KNG KOH MER)	13,104-325-39-ABCD	WB4CQG 10,032-176-57-AB	8694-189-46-AB	
Rhode Island		WA4NFA 3960- 90-44-AB	WB4NCVZ 4160-130-32-AB	
W1CPC	228- 19-12-A	WB4EOW/4 (+WB4s BUT NCN)	WA5UQD 2754-102-27-A	
K1ABR (+K1s AGV BYV IKN WA1OMS)	61,074-644-87-ABCD	18,480-207-77-ABCD	WA5QBX 2640- 88- -A	
Vermont		WB2XCX 4805-155-31-AB	Georgia	Mississippi
K1GYT	4545-101-45-AB	W2FGY 484- 44-11-B	W4WDH 91- 13- 7-B	W5UK/5 (K5FVA W5s NOP UDK WA5s AWF VCF)
W1AIM	2475- 75-33-AB	WB2SPJ 468- 26-18-A	W4VO/4 (K4s AEK CKS WA4BRQ WB4s AEG HPV YWK)	18,535-337-55-AB
Western New York		K2BWR (+K2ZRJ)	12,540-278-44-ABC	New Mexico
W2CNS	6030-134-45-AB	18,480-207-77-ABCD	K5JQS 6144-128-48-A	K5EFW 6028-137-44-AB
WA2TEY	1218- 58-21-AB	WB4VLH (+WB9JFT)	6426-126-51-A	WB5CAG 5460-156-35-A
K2LGJ	870- 29-15-D	WB4WZQ 3306- 87-38-AB	W0OPN/5 2460- 82-30-A	
K2JQ	384- 32-12-B	WB4MKY 1300- 50-26-A	W51XR/5 105- 15- 7-A	
WA2TPR	374- 34-11-A	WB4MXP 920- 46-20-A	WB5AXC (WA5MWS WA8FCB) 11,232-234-48-AB	
K2CBA	(+WA2PGW WB2s BYP DNE DUS QFS)	WB4LDP/4 363- 33-11-AB	Northern Texas	
Delaware		17,760-277-60-ABCD	K4VAA 570- 31-15-BDE	W5YXP 8151-143-57-A
K1GYT	4545-101-45-AB	17,760-277-60-ABCD	W5LUA 77- 9- 7-BD	WB5LUA
W1AIM	2475- 75-33-AB	WB3OPX 14,690-206-65-ABCD	Oklahoma	Oklahoma
Vermont		17,760-277-60-ABCD	WA5RBI 1550- 62-25-A	
K1GYT	4545-101-45-AB	WB4GG/4 (W4s ACY ANM CS WB4s NUI. UJH)	K5WVX (+K5BXG W5WAX)	WA5UNL (+W5ORH WB5s CWB DSH)
W1AIM	2475- 75-33-AB	17,760-277-60-ABCD	9384-184-51-AB	22,165-333-65-AB
Delaware		WB4GG/4 (W4s ACY ANM CS WB4s NUI. UJH)	W5EJK/5 (WA5s UEF WWG WB5CL)	W5EJK/5 (WA5s UEF WWG WB5CL) 945- 43-21-ARD

Southern Texas		K7AUO (W7s ADV UDM VRM) 1720- 82-20-ABCD	9	WA9CPN K9REE WA9SUJ WB9EPZ WA9HCZ/9 (+WB9CSN)	6192-144-43-AB 6144-128-48-A 5341-109-49-AB 2304- 72-32-A 18- 6- 3-B
W5SXO	18,414-273-66-ABCDE	K7HSJ (+WA7IGB) 810- 43-18-ABC	Illinois	WB9EDP W9ABA W9KDR W9IFA W9IVI W9IGV	6000-120-50-AB 3996-108-37-AB 1050- 42-25-AB 390- 26-15-AB 196- 28- 7-B 176- 22- 8-B
WA5CBT	14,147-301-47-AB	Washington		K9KQR	161- 23- 7-B
WBCMB	7602-181-42-AB	K7GWE 20,515-370-55-ABD	WA9HIIH (+W0DYI WA0IYY)	14,518-238-61-AB	
K5ZMS/S	4752-132-36-A	K7IDX 14,250-285-50-A	K9YHB (K9FHP WA9s AXA EJ: TMC WB9s BOH DQT)	13,965-283-49-ABD	
WA5QCP	3960- 99-40-A	WA7KYZ (K7HTZ, opr.)	WB9GEN (+W9NYO WA9PQV)	WB9s HRH KLW WN9s IW:	
K5WIB	3552-111-32-A	13,156-253-52-AB	JSR KNY KX1	WB9s KRY KX1	
WA5IYX	3232-101-32-A	W7ZSL 4816-171-28-ABC	WA9LEF/9 (+K9ORP W9MV!	12,852-232-54-ABD	
K5LZJ	792- 44-18-AB	WA7PVE 3498-159-22-AB	WB9s APC CGL	6845-185-37-AB	
6		WA7RIB 1653- 87-19-A	W9BGX (WA9s KIO UI: WB6NOQ)	2618- 75-34-ABD	
East Bay		WA7FVT 753-251- 3-B	K9GWT (+W9KVE WA9YLB WB9s: AGO GMD NAW)	594- 66- 9-B	
W6BXO	5565-137-35-ABCD	WB6ESS/7 104- 52- 2-B	Wyoming	WB0IWG WB0RLI	9169-173-53-A 2905- 83-35-AB
W60MF	3465- 89-33-ABCD	W7FHJ/7 (+K7t7s IPQ PHZ W7GLS	Indiana		
W6YKMK/6	(+K6s GSS KLY	WA7s IKM LOR MHM)	K9UJV 15,180-229-60-ABD	Missouri	
WA6JUD	WB6KBZ)	15,980-452-34-ABCD	K9RSF 5670-126-45-AB	2565- 95-27-AB	
35,931-518-59-ABCDE		K7IEY/7 (+K7NTW WA7EHE)	K9DZS 4446-117-38-AB	WB9YBW WB0- 5- 4-AB	
Los Angeles		13,948-312-44-ABCD	WB9CGI 3102- 94-33-A	K0TLM (+W0YZS)	
WB6OKK/6	17,574-271-58-ABCD	K7LED/7 (K7CAI WA7s NAN UEW)	WA9MEM 1638- 63-26-A	12,540-206-60-ABD	
K6SSN	8112-204-39-ABCD	WB8BKY 8100-180-45-AB	K9ZNK 414- 46- 9-B		
WA6MBR	306- 24- 9-AC	WB8EIJY 3180-106-30-AB	K9UNM 306- 34- 9-B	North Dakota	
WA6TQA	112- 16- 7-AB	K8AJC 390- 39-10-AB	WB9KYE 80- 16- 5-A	K0ALL/0 13,068-242-54-AB	
WA6RAY	56- 14- 4-AB	K8LZF 250- 21-10-BCD	WB8HUC/9 (WB8s GEU GEW GL: GEY GFA)	WA0CSL 8500-167-50-ABD	
WA6UMI/6 (WB6s ASR FSE RAL RIY)	36,991-494-71-ABCD	WB8OTA 236- 59- 4-AB	24,236-332-73-AB	South Dakota	
WA6HXM (+K6KSY W6NU WA6s IBZ OLE OZC SQU WB6WAX WA7LGB)	18,468-301-54-ABCD	K8HXW 50- 50- 1-AB	K9TKE (+W9LTU)	K0VXM 6345-140-45-AB	
WB6JCD/6 (+W6PJM P. Jensen)	4576-141-32-ABC	K8BBN (+K8GMR WB8NWY)	4788-126-38-AB	WB0ELN 5016-132-38-AB	
Santa Barbara		16,353-231-69-ABCD	WB9NTL (+WA9CVD)	2444- 79-24-AB	
K6YNB/6	46,494-539-81-ABCD	WA8CDF (+K8LPF WA8PHV)	Wisconsin	Check Log	
K6BPC/6 (WA6s ARC DKC DSN HOF IPN LCF MEM WB6s IMV RAJ YVP)	22,165-304-65-ABCDE	9660-210-46-AB	W9JDJ 13,992-209-66-ABD	WB4BND 	
Santa Clara Valley		K8HWW (+WA8MEC)			
K6QAX	8918-158-49-ABC	8856-211-41-ABC			
WA6GYD	5832-122-36-ABCD	W8YDK/8 (WA8s WOQ YUZ WB8LCN)			
WB6KAP	4408-119-29-ABCD	2639- 91-29-AB			
WA6UAM	2736- 95-18-ABCD				
WB6JNN/6	6- 2- 1-E				
K6YA/6 (WB6OPC WB6s LSN QWV YZI W8RPA W8ALLY)	10,442-197-46-ABCD				
WA6WSW/6 (WB6s HWO RGR UBW WLE)	7280-174-35-ABCD				
San Diego					
WA6MHZ	3502-103-34-A				
WB6NMT/6	2322- 71-27-ABC				
San Francisco					
W6KQG	10,580-230-46-AB				
San Joaquin Valley					
WA6NRV	7700-144-50-ABD				
W6YKS	5530-158-35-AB				
K6JKQ	4230-106-30-ABCD				
K6OKC/6	564- 40-12-BD				
Sacramento Valley					
WB6NKO	8304-164-48-ABD				
7					
Arizona					
K7CIN	10,125-225-45-AB				
K7PXi	7525-175-43-A				
K7NHK	770- 35-22-A				
K9DKW/7 (+WA7s NGK UDV)	8016-167-48-AB				
WA7BBM (+K7s EBW KHN)	2016- 72-28-AB				
Idaho					
WA7LLL	1344- 56-24-A				
Montana					
W7JRG	13,734-327-42-A				
WA7PZO/7	22- 22- 1-B				
Nevada					
K7ICW	8600-172-50-AB				
W7ABX	99- 11- 9-A				
Oregon					
WA7RTA	10,500-250-42-AB				
W7TYR	5304-144-34-ABCD				
WA7TDU	270- 27-10-AB				
W7ZOI	27- 9- 3-AB				
K7ZCB/7 (+K7TKX WA7s ECY RED WVN)	12,320-272-44-ABCD				
8					
Michigan					
WB8BGY	18,420-299-60-ABD				
WB8BKC	12,087-237-51-AB				
WB8RHH	8652-206-42-AB				
WB8KAY	8100-180-45-AB				
WB8EIJY	3180-106-30-AB				
K8AJC	390- 39-10-AB				
K8LZF	250- 21-10-BCD				
WB8OTA	236- 59- 4-AB				
K8HXW	50- 50- 1-AB				
K8BBN (+K8GMR WB8NWY)	16,353-231-69-ABCD				
WA8CDF (+K8LPF WA8PHV)	9660-210-46-AB				
K8HWW (+WA8MEC)	8856-211-41-ABC				
W8YDK/8 (WA8s WOQ YUZ WB8LCN)	2639- 91-29-AB				
Ohio					
K8LEE	37,114-479-77-ABD				
K8III	19,089-303-63-AB				
W8KPY	16,575-255-65-AB				
W8NRM	12,864-194-64-ABCD				
WA8STX	5874-178-33-AB				
WB8OCX	5547-129-43-A				
WB8RDY	4356-121-36-AB				
WA8KIW/8	3008- 94-32-A				
K8ZES	2576- 82-28-ABCD				
K8UQA	624- 26-12-D				
K8CKY	352- 32-11-A				
WB8IAY	16- 16- 1-B				
WB8CCI (K8CLA W8s BVL ULC WPV WA8s WXT WMH WB8s CLF EEX GMZ MUA OEW)	5547-129-43-A				
5					
Arizona					
57,602-673-83-ABCD					
WA8PLZ (WB4YIH W8s DJY LTA MSF WA8s DZU PAR SVV WB8s LHL OFR QCC QVC RKM G3PAC)					
56,028- 661- 84-ABCD					
K8SUB/8 (+WB8s GFY GZL)					
13,695-249-55-AB					
WB8LGA (+WB8HXR)					
8955-196-45-ABC					
W8BI (WBDPW WA8s LXW ZUQ WB8s IAR JJJ)					
4932-137-36-AB					
WB8GZM (+WB8GZL)					
1525-61- 15-AB					
West Virginia					
W8TTU	6909-147-47-AB				
W8AEC	976- 61-16-B				
WB8LBX	190- 19-10-A				
WB8EKG	55- 11- 5-B				
WA3OJB/8	24- 6- 4-B				
K3LNZ/8 (K3s AAF DUA W3s BQV EVF UJC WA3NZL K4LHB W4PSJ WB4YFT)					
28,182-336-77-ABCD					
9					
Illinois					
WB9EDP	6000-120-50-AB				
W9ABA	3996-108-37-AB				
W9KDR	1050- 42-25-AB				
W9IFA	390- 26-15-AB				
W9IVI	196- 28- 7-B				
W9IGV	176- 22- 8-B				
K9KQR	161- 23- 7-B				
WA9HIIH (+W0DYI WA0IYY)	14,518-238-61-AB				
K9YHB (K9FHP WA9s AXA EJ: TMC WB9s BOH DQT)	13,965-283-49-ABD				
WB9GEN (+W9NYO WA9PQV)	WB9s HRH KLW WN9s IW:				
WB9s RRH KLY WN9s IW:	JSR KNY KX1				
K9GWT (+W9KVE WA9YLB WB9s: AGO GMD NAW)	594- 66- 9-B				
WB0IWG WB0RLI	WB0ZAX WB0ITA/0	9169-173-53-A 2905- 83-35-AB	Minnesota		
Colorado					
WB0DYB	198- 22- 9-A				
WB0NRJ (+K0YDO WA0IQN)	11,822-257-46-A				
Iowa					
K0MST	9724-187-52-AI				
WB0OHU/0 (+K9s AKS CHZ L WA0JEK WB0BBM FBP)	33,120-409-80-ABCD				
Kansas					
WB0ZAX	10,215-227-45-A				
WB0ITA/0	7260-164-44-ABD				
Missouri					
WB0IWG WB0RLI	9169-173-53-A 2905- 83-35-AB				
North Dakota					
WB0ZC	2565- 95-27-AB				
WB0YBW	20- 5- 4-AB				
South Dakota					
K0ALL/0	13,068-242-54-AB				
WA0CSL	8500-167-50-ABD				
Wisconsin					
WB0ELN	5016-132-38-AB				
Check Log					
WB4BND					

Sending *(Continued from page 75)*
operator. While a person's sending is generally a good indication of his ability as an operator, the quality of the sending should be the first consideration.

Unless Phillips Code is being used, the secret of making time lies in the shortening of the dashes. However, if this is overdone, it becomes difficult to differentiate between an "H" and a "B," for example. After all, the tempo of the sending should be dictated by the existing circumstances. If the signals are weak, or are affected by QRN, QRM, or QSB, then a steady gait is indicated, with correspondingly longer dashes. In aggravated cases, often resorting to QSZ will frequently get the message through. Some of the old spark gap boys were necessarily adept at this, and were able to clear the hook under the most trying circumstances.

Strays

WA1IOB has a 1-watt beacon operating continuously on 28.150 at a fine elevation. If you copy it, drop a note to Len Umina, 34 Chestnut, Hopkinton, Mass. 01748 for a special card. (Might be good to check the freq. during the Dec. 14-15 ARRL 10-Meter Contest!)