Rhode Island's K1TPK needs little introduction to serious VHF'ers. Manly's beams are 4 over 4 side-spaced homebrew on 6 with 11 elements in the middle on two, (without any ill effects from the unconventional arrangement). The rig in the right foreground is the 6-meter exciter. On the upper right is the 4-400A final, both homebrew. The 2-meter equipment, not shown, consists of a completely homebrew 200-watt supply, 100-watt modulator and a final with 826s.

June V.H.F. QSO PARTY Results

THE dates, June 11–12, 1966; reports 366, 6-meter conditions in particular — OUTSTANDING!

There is an old Greek proverb that goes "Before you can score you must first have a goal." Investigating a number of goals (other than the obvious one of having a great time) reveals aspects of the June QSO Party.

The top ten scorers: (single operator) WA2FGK K3IPM K1WHS K1TPK K1JIX K4QPJ/4 K9DZK VE3BPR WØEYE and K9QCB; (multioperator) W3CCX/3 W2PEZ/2 WA2BAH/1 W2UFT WB2FKJ/2 WA8BCA K1YLU/1 W2GKR/2 K6BPC and W1MEH.

Section award leaders, using 6-meters alone: WA1ABU K1IGY/5 K1TOL K2MUB K3UHU K4HOI WA4STJ K5IVB WA5NFC K8VEX WA8OXC WØBMN KØITF VE1AI VE4MA/5 and VE4RE.

Sections leaders using four or more bands: W1ALE K1JIX WA2FGK K2YCO K3IPM W6AJF W6GDO WB6KAP W7TYR WØEYE and VE3BPR.

The chart herein showing high multipliers per band is similar to the one used in the annual DX Competition report and has proved to be a popular feature in that annual affair. If you find this an interesting and useful addition to these reports please let us know!

Elsewhere in this issue are the rules for the September 10–11 affair. If you haven't requested your log forms as yet get with it — drop a note to the Headquarters and be prepared.

Section award leaders are reminded that certificate awards are scheduled for September 15 mailing.

Soapbox

"With little activity here in Sussex County, the frequent band openings and good ground-wave conditions helped the score a lot." — *K3CNH*. "In the 'might have been' department. . . . I was told later that W1MEH came back to me *twice*." — *W3HB*. "The c.w. activity at the low end was the best ever and, at last, the N. J. and N. Y. stations are learning that the Maryland and Virginia operators *do* get on c.w. My thanks to them." — *W3LUL*. "I'm surprised and delighted at the amount of interest exhibited by those individuals who spent many hours on cold mountain tops in trying to make a success of the June party. They succeeded in adding enjoyment to my own participation and to that of others in the Md.-D.C. section." — *K3FPE*. "The Aero Amateur Radio Club crew had a grand time up on the hill at Jacksonville, Maryland, although it was one of the coldest nights we have ever spent with the temperature dropping to 45 degrees." — *W3PGA/-3*. "My first contest and I had a ball!" — *WN2VUA*. "Stations should announce their location when calling CQ contest so beams can be turned to the proper direction in time to respond to weak signals." — *WA2KND*. "Activity very light. The contest didn't receive enough *QST* exposure. Let's have more publicity for the next one." — *WA2FAR/2*. (My face is red, I goofed! Please check page 66 of this issue for the September rules. — *W1YYM*). "While installing a permanent club station, we entered the VHF QSO Party and things went very well. We were surprised to work Ontario, Vermont and even Western Mass. using the Communicator. Look for our new club call WA2VMB shortly." — *K2ZRX/2*. "Two improved markedly for us Sunday at 10 a.m. local time when we corrected a phasing problem on the 8/8 array! Good tropo. on the weekend." — *K3HKK/3*. "Not one single portable worked or heard properly identified." — *W3BWU*. "Gratifying to have the SSBers respond to my c.w. and ancient modulation. DX was good though local activity poor." — *WA9FIH*. "Got a late start but worked two new states." — *K9DMW*. "A fine contest here in the midwest with lots of activity and conditions on the upswing." — *W9BRN*. "90% of the stations worked were over 100 miles away for 27 sections in only 89 contacts." — *WA9PBW*. "Conditions and participation were far better than indicated by our log." — *K4EJQ*. "Groundwave and scatter was good, especially on 2 meters. Considerable sporadic-E, mostly into the Northeast. I had considerable difficulty in reaching the top of Black Mountain with my car pulling a camper trailer. I required assistance from a wrecker, tore a hole in my gas tank (losing a full tank of gas), lost the car's manual clutch plus several other troubles which will go unmentioned. However, I plan to be back here in September but without a camper trailer and with *at least* one other operator!" — *K4QPJ/4*. "A wonderful contest with perfect weather and no equipment failures. Highlights included 3 new states on 2 meters plus my first Michigan 220 Mc. contact, with W8PT. A thrill on Sunday afternoon to have WA2BAH/1 answer my CQ." — *K8ZES*. "Thanks to the mountain-top groups that helped make the contest an interesting one. As an indication to the value

* Assistant Communications Manager, ARRL.

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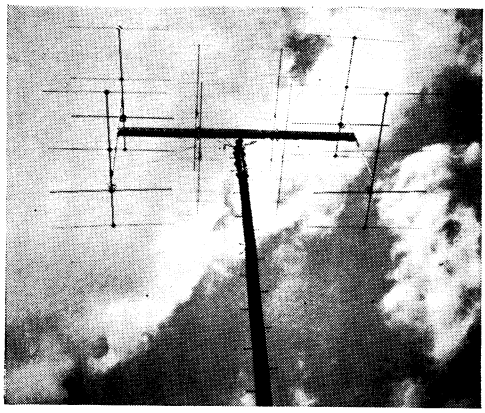
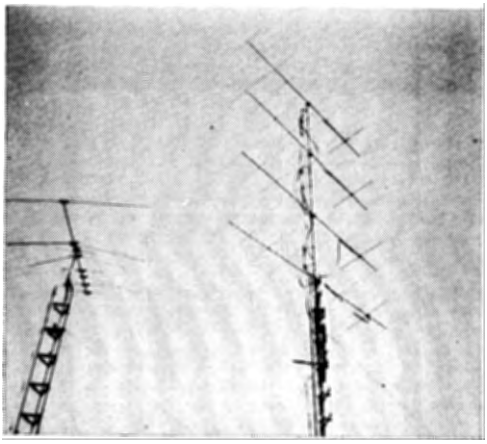
Six Meters Comes Through!

COMPILED BY ELLEN WHITE,* W1YYM

of c.w. operations on two meters, half of the 18 sections I worked were via c.w. and they would have been unreadable on phone." — *W8QOH*. "It is amazing how many stations that you normally hear disappear when the contests come and also those who *only* appear at contest time." — *WA2ZPD*. "Two sessions of skip helped build the multipliers and I made my first Virginia and Oklahoma contacts." — *WA2JWO/2*. "For the next one I'll have my amplifier finished and a better antenna installation." — *WA2IPC*. "C.w. and sideband activity (on scatter and groundwave) accounted for most of the hard-to-get sections." — *K2MUB*. "Nice opening on 6." — *W2PEZ/2*. "Next year we hope to be on top of Stissing Mt. instead of under it" — *WB2WFV/2*. "Heard VE2SH and K1OYB on 2 meter c.w. W8NSH had good signals and W8WEN was 579 when his beam was pointed this way." — *WA2JAM*. "Equipment for 220 and 432 will be ready for the September affair." — *K1WHS*. "S.s.b. was used on 6 mostly and found to be very good. Two-meter c.w. was great for long-haul contacts." — *W1HNF*. "Good to be back after four years of apartment living without antennas!" — *K1FFE*. "Exciting to work W3CCX, W1UUQ and G3BVU/W1. Courteous well-mannered operators made the contest very enjoyable." — *W1ASZ/1*. "My only gripes are the stations that call 'CQ contest' 20 times and then give their call once. Pleased to be able to hand out some Maine contacts." — *K1OYB*. "Flooded with QSL requests for first Vermont for many." — *K1RYT/1*. "No good openings noted. S.s.b. on 6 is ever increasing." — *K6BPC*. "Fair 50-Mc. trop-scatter was experienced and we worked K7ICW (Nevada), W7CNK (Washington) and W6GDO (Sacramento). No east-west band openings into San Diego. 432 was dead for the first four hours until we found the break in the coax!" — *W6NLO/6*. "Had to quit early Sunday because of the heat." — *WB6CSD/6*. "Our most outstanding accomplishment this time was working both Arizona and Nevada on 50-144-220-432 Mc., with K7RKH and K7RKH/7. A special meteor scatter schedule was set up with K7AUO/7 in Oregon but his KW produced just a few letters and pings and vice-versa on 144 Mc., no QSO. — *K7ICW*. "Conditions couldn't have been worse." — *W6BYC/6*. "Our 432 Mc. effort netted all 9 sections. Most interesting was the strength of the W6NLO/6 group on Mt. Tecate, about 100 yards from the Mexican border." — *W6GD/6*. "My last contact, with W9BRN on 144 Mc., made the contest for me as Indiana was a new state, bringing my standing to 22 states, 7 call areas and my best DX at 1000 miles." — *K4MHS*. "Bands were excellent though we were plagued by typical Mt. top luck. We did work Ohio and Alabama with 8 watts output." — *K4GWY/4*. "We worked more New Jersey, MDC and E. Pa. stations than in our own section,





Top to bottom we find the antennas of: WA5AUA of South Texas who found conditions poor in his area; VE3ASO's homebrew 2-meter array of four beams, each ten elements on 13-foot booms, phased with foam twin-lead and fed with RG/17U. On the bottom is K1JIX's homemade 60-foot steel tower with a six-foot-square wooden platform at the top, with four 13-element yagis for 432 stacked vertically up the middle of a 12-foot box of four 10-element yagis for 144 Mc.

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DIVISION LEADERS

Single Operato		*Multioperator*
K3IPM	Atlantic	W3CCX/3
K9DZK	Central	K9EWG/9
KØFKJ	Dakota	.....
W4WZC	Delta	WA4VNP/4
K4QPJ/4	Great Lakes	WA8BCA
WA2FGK	Hudson	W2PEZ/2
WAØHKP	Midwest	.....
K1WHS	New England	WA2BAH/1
K7BBO/7	Northwestern	K7AUO/7
W6GDO	Pacific	W6GD/6
K4SUM	Roanoke	K4GWY/4
WØEYE	Rocky Mt.	W5UFJ/5
K4WHW	Southeastern	WA4QPL/4
WA6JLC/6	Southwestern	K6BPC/6
W5WAX	West Gulf	WA5OMG
VE3BPR	Canadian	VE2SH/2

Virginia!" — *K4SUM*. "We operated from the top of Bull Run Mountain altitude about 1300 feet, located 50 miles west of Washington, D. C. Excellent groundwave on both 6 and 2 plus good sporadic-E on 6. Hope to have 432 going next time." — *K4LHB/4*. "With the exception of two weak W6 stations, whom I could not raise, and the few others I worked, nothing else was heard on 6 meters. I'm located at an elevation of 10,000 feet surrounded by 13-14,000 foot ridges to the west, north and east, about 5 miles away. Expect to be on two and six in September." — *KØADG*. "Our club members enjoyed this chance to operate the contest as a group. The weather was perfect and band conditions kept our interest alerted. We managed to work all of the New England states on six meters and even encountered some QRM pile-ups on two meters during an opening into Illinois. We were gratified to work a total of 28 sections." — *WA4QPL*. "Carted everything up to the 7300 foot level of the San Gabriel mountains and set up at a wide spot in the road. Everybody and his brother stopped by before the contest was over. Those who didn't stop almost drove off the road trying to see what was going on." — *WA9DHK/6*. "Sporadic-E was very good to the New England area. This was the only area open during the entire contest except for a brief opening to VE4 and VE5 Sunday about 1500 GMT. I really enjoyed working the pile-ups." — *W5WAX*. "Spotty sporadic-*E* made this contest worthwhile. Murphy prevented two-meter activity and no signals were heard on 432. Still no competition down here in So. Texas to speak of. We'll keep on trying." — *K1IGY/5*. "In *this* part of Southern Texas conditions were DEAD. The few I worked were in and out. All this after nearly a year of detailing, building and erecting 4 phased beams on both 6 and 2." — *WA5AUA*. "We all had a wonderful time. Band conditions were very good with temperature inversion the last couple of hours of the contest." — *VE2BZH/2*. "Our location on Covey Hills, Quebec, is about 30 miles due south of Montreal and is ¼ mile from the New York state border." — *VE2SH/2*. "Location was 43 miles north of the border and two miles inside the Saskatchewan border, or 217 miles west of Winnipeg. Next year I'll pitch the tent on the border with one antenna on VE4 and the other on VE5. Then you pay your money and take your choice, hi!" — *VE4MA/5*.

SCORES

In the following tabulation, scores are listed by ARRL Divisions and Sections. Unless otherwise noted, the top scorer in each section receives a certificate award. Columns indicate the final score, the number of contacts, the section multiplier, and the bands used. A represents 50 Mc.; B, 144 Mc.; C, 220 Mc.; D, 420 Mc.; and E, 1296 Mc. or higher. Multiple-operator stations are shown at the end of each section tabulation. An asterisk denotes a Novice Award Winner. A double asterisk denotes a Headquarters staff member, ineligible for an award.

ATLANTIC DIVISION

Delaware

K3UHU 1976-104-19-A
W3CGV 1750- 65-25-ABCD
K3CHN 704- 44-16-A
K3NYG 45- 9- 5-A

Eastern Pennsylvania

K3IPM 30,000-474-60-ABCD
K3MTK/3 6727-217-31-AB
K3YFD 3144-131-24-AB
K3HNP 2070- 90-23-A
WA3BWF 1860-124-15-A
W3ARW 960- 41-20-BCD
WA3BKP 756- 63-12-A
W3MMV 494- 34-13 BD
W3LUW 490- 35-14-AB
WA3BGN 128- 16- 8-A
W3CCX/3 (26 oprs.) 63,240-839-68-ABCDE
WA3EJH (K3QGX, WA3s BJR EJH) 8000-250-32-AB
W3JMP/3 (4 oprs.) 3975-159-25-A
K3YGH (W3s FDH GFN JUX) 3422-113-29-ABC
W3FZC/3 (W3s GCR GKW TEC) 1484-106-14-AB
W3AZR (5 oprs.) 870- 58-15-A

Md.-D.C.

K3FPE 2240-140-16-AB
K3JUK/3 (WA3DFN, opr.) 1648-103-16-AB
K3VRS 912- 57-16-AB
W3LUL 826- 59-14-B
K3OZQ (K3OKC, opr.) 708- 59-12-B
WA2DRK/3 588- 49-12-B
W3HB 513- 57- 9-AB
W3MSR 328- 41- 8-B
WN3ELA 160- 32- 5-B
W3PGA/3 (7 oprs.) 7308-261-28-AB
WN3EOQ/3 (WN3s EOP EOQ) 420- 60- 7-B
K3LUK/3 (K3s KWO ZSX, WA3AVI) 793- 60-13 ABC

Southern New Jersey

WB2NOK 5208-168-31-AB
W2HXF 1029- 49-21-AB
WN2VUA 552- 69- 8-B
WB2QLG 318- 53- 6-B
WN2UVB 230- 46- 5-B
WB2WXA 75- 25- 3-A
WB2SPJ 72- 12- 6-A
WB2VFX 45- 15- 3-B
WB2MNM 18- 6- 3-A
WB2RVX (W2PJC, WB2RVX) 2337-123-19-AB
WB2JEP (WB2s JEP TOE) 238- 34- 7-B

Western New York

K2YCO 6802-158-38-ABCD
W2UTH 5032-135-37-ABD
K2LGJ 3406-116-28-ABD
WA2TEY 3213-119-27-AB
W2EFO 2116- 92-23-AB
K2DUR 2016-112-18-AB
WA2SOO 1836-102-18-AB
WA2KND 1092- 77-14-ABD
W2DJL/2 868- 62-14-A
W2ROA 737- 67-11-B
W2VCI 371- 53- 7-B
W2WGL 280- 28-10-B
WA2FAR/2 168- 24- 7-A
WA2WEB/2 (13 oprs.) 15,850-301-50-ABCD
W2OW (20 oprs.) 9460-218-43-ABD
W2MAU/2 (11 oprs.) 4470-144-30-ABCD
W2RTG/2 (6 oprs.) 2921-127-23-AB
K2ERQ (12 oprs.) 2220-110-20-ABD
K2ZRX/2 (8 oprs.) 1764- 98-18-AB
W2ZJ (7 oprs.) 1530-102-15-AB
K2ZOC/2 (9 oprs.) 990- 66-15-AB

Western Pennsylvania

W3BWU 2730-130-21-AB
WA3BBJ 1484-106-14-A
WA3CIA 513- 57- 9-A
W3DJM 231- 33- 7-A
K3HKK/3 (8 oprs.) 13,590-302-45-AB
K3JRO/3 (5 oprs.) 9306-282-33-AB

CENTRAL DIVISION

Illinois

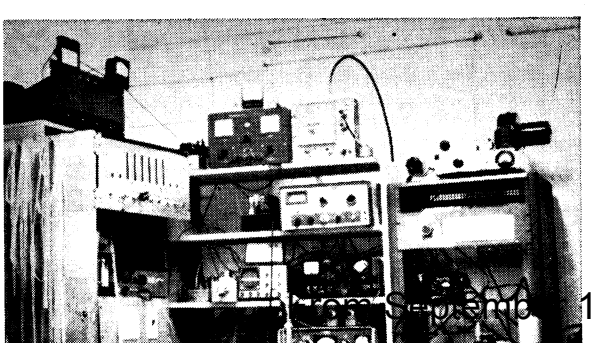
WA9OUU 5742-174-33-AB
K9RVG 2820-235-12-B
WA9JKT 1845-123-15-AB
WA9FIH 1360- 85-16-AB
WA9FYB 804- 67-12-AB
K9DMW 664- 83- 8-B
W9AA (WA9MSZ, opr.) 272- 68- 4-B
WN9RNQ 265- 53- 5-B
WA9PDI 165- 55- 3-B
WN9RSN 120- 4- 3-B
WA9NAH 93- 31- 3-B
W9AXT 42- 14- 3-B
W9YOW 11- 11- 1-B
WA9RGV (WA9s QXY RGV) 2142-102-21-AB
K9HGX (5 oprs.) 636- 53-12-AB
WA9MSD (WA9s MSD SFU) 155- 31- 7-AB

Indiana

K9DZK 9158-241-38-AB
K9QCB 7480-218-34-ABCD
W9JHL 3400-136-25-A
W9BRN (K9MRI, W9BRN) 1246- 87-14-BD

Wisconsin

WA9JFM 7168-256-38-AB
WA9PBW (K9LBQ, opr.) 2403- 89-27-A
W9GJJ/9 1496- 88-17-A
WA9EZU 72- 12- 6-A
W9TQ 10- 5- 2-B
K9EWG/9 (7 oprs.) 2438-106-23-AB



K1IGY/5 did all right in the sections department on 6 and wound up leading So. Texas. Dick runs a kw. s.s.b. with 6 elements up 60 feet. He thinks his digital clock may be of additional interest: it is the 19 x 10 inch aluminum panel with vertical columns in the upper left hand quadrant of the picture. It was designed to provide time information for satellite trackings and is also used for regular time for logging, accurate to within .001 sec. of WWV!

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DAKOTA DIVISION

Minnesota

WAØCQG 1159- 61-19-AB

South Dakota

KØFKJ 1701- 81-21-AB

DELTA DIVISION

Arkansas

WA5NFC 735- 49-15-A
WA5NOB/5 (K5BOE, WA5s LLX NOB) 4154-134-31-A

Louisiana

WA5DXA 935- 85-11-AB
WA5JVL 182- 26- 7-A

Tennessee

W4WZC 3248-116-28-AB
K4EJQ 624- 52-12-AB
WA4UCE (WA4CKP, opr.) 518- 37-14-A
W4SGI 44- 11- 4-AB
WA4VNP/4 (10 oprs.) 6102-226-27-AB

GREAT LAKES DIVISION

Kentucky

K4QPJ/4 9804-258-38-AB
WA4SIQ 1782- 99-18-AB
WN8TYF/4 5- 5- 1-B
WA8IEK/4 (5 oprs.) 1717-101-17-AB

Michigan

K8VEX 2898-126-23-A
W8PT 1488- 86-16-ABCD
W8OOR 1292- 76-17-AB
W8CVQ 682- 60-11-ABD
WA8PWZ 546- 39-14-A
W8NSH (7 oprs.) 11,322-306-37-AB
W8WOG/8 (5 oprs.) 10,045-287-35-AB
K8JZP/8 (K8s DVR, JZP, WA8EII) 510- 51-10-AB

Ohio

WA8OXC 7245-207-35-A
WA8NJA 3537-131-27-AB
W8WEN 2178-121-18-B
W8QOH 2106-117-18-B
W8JRN 1712-107-16-AB
K8ZES 1148- 81-14-BC
WA8KCX 1134- 81-14-AB
WN8SJL 188- 47- 4-B
K8WVZ 132- 22- 5-A
WN8TYF 33- 11- 3-B
WA8RWZ 24- 12- 2-A
WA8JXM 16- 8- 2-B
W8FAZ 5- 4- 1-BD
WA8BCA (13 oprs.) 22,883-467-49-AB
W8CC1 (7 oprs.) 18,124-394-46-AB
WA8PUY (6 oprs.) 3630-165-22-AB
W8VND 2752-172-16-AB
WA8PNR (6 oprs.) 2002-143-14-AB
W8EDU (W8s AJR AZA) 825- 55-15-AB

WØEYE's 6-meter total, tops in the nation, is a real eye-opener. Don's first-class log presentation includes 38 sections on 50 Mc. Station equipment for this band includes 4X250B's at 750 watts input, 75A-3 plus converter and a 6-element array

HUDSON DIVISION

Eastern New York

K2GXJ 2800- 92-28-ABC
WA2JWO/2 2460-123-20-AB
WA2ZPD 774- 86- 9-B
K2ARO 450- 45-10-B
WA2USG 272- 34- 8-B
W2UFT (4 oprs.) 33,972-570-57-ABCD
WB2FKJ/2 (14 oprs.) 30,008-439-62-ABCDE
WB2WFV/2 (4 oprs.) 1026- 57-18-AB
WA2DNR (W2KZN, WB2s OIM UUQ) 952- 68-14-AB

(Calls in bold-face type represent single-operator section leaders.)

Minimum Number of Sections	20	10	2	2	1
Band (Mc.)	50	144	220	420	1296
WA1ABU	24				
W1ALE	20	10	5	4	
W1ASZ/1*		12			
K1BZM/1*	25	15			
K1FFE		13			
K1GYT	24				
W1HIL		11			
W1HNF	21	11			
W1HPM*	25	12			
K1IGY/5	23				
W1IPJ/1*	27	12	4	3	
K1JIX	24	12	6	7	
K1KKK/1*	20				
W1LUA/1*	30	15	4		
W1MEH*	24	19	8		
K1OYB		14			
K1RYT/1*	35	19			
K1TOL	30				
K1YON			9		1
W1OOP		10	6	7	
K1TPK	27	14			
W1UWX/1*	20	12			
W1WHL	21		4		
K1WHS	29	16			
K1YLU/1*	22	13	9		
K2ARO		10			
WA2BAH/1*	34	19	13	4	
WA2CMG*			3	4	
WA2DRK/3		12			
WA2FGK	30	19	3	3	2
WB2FKJ/2*	23	20	11	6	
W2GKR/2*	21	15	7	5	
K2GXJ		16	6		
WA2JAM		19			
K2LGJ		12		2	
W2MAU/2*		16	3		
W2MFF/2*		11			
K2MUB	35				
WB2NOK	20	11			
WB2OGD/2*		10			
W2OW*	32	10			1
W2PEZ/2*	33	19	7	5	
W2ROA		11			
WA2SAY			5		
WA2SLY		13			
WA2TEY	23				
WB2TRD	21				
W2UFT	27	20	7	3	
W2UTH	32				
WA2WEB/2*	21	20	6	3	
W2WGL		10			
K2YCO	21		4	5	
WA2YHS*		13			
W2ZDR*		11	6		
W3ARW		13	5	2	
W3CCX/3*	30	20	9	8	1
W3CGV				2	
WA3EJH*		13			
K3HKK/3*	27	18			
K3HNP	23				
K3IPM	36	13	8	3	
W3JMP/3*	25				
K3JRO/3*	26				
W3LUL		14			
W3MMV		10		3	
K3MTK/3	23				
W3PGA/3*		11			
K3OZQ		12			
K3YFD		10			
K3YGH*		12			
WA4BNX/4*		10			
K4FJW/4*	28				
K4GWY/4*	29		2	2	
W4HJZ	21				
K4LHB/4*	25	12	2		
WA4JZH/4*	20	10			
WA4MMO*	25				
W4PAR/4*	33				
K4QPJ/4	28	10			
WA4QPL/4*	25				
WA4SHA/4*		10			
K4SUM		10			
WA4VNP/4*	23				
K4WHW	20				
W4WZC	24				
WA5NOB/5*	31				
W5UJF/5*	25				
W5WAX	25				
W6AJF			3	4	1
K6BPC*			5	6	4
WB6CDF/6*			5	3	
W6GD/6*			9	4	
W6GDO		10	4	7	1
W6HPH				3	1
K6IBY/6*			4	5	1
WB6KAP			3	4	
K6KLY				4	
W6NLO/6*			5	5	1
W6NLZ			2		4
K6OKC*		11	4	8	2
W6SD/6*			5		2
K7AUO/7*			2	3	1
K7ICW			2	2	
W7TYR			2	2	
K7ZIR			2	2	1
W7ZSL/7*					1
WA8BCA*	35	14			
W8CCI*	37				
W8CVQ				2	
W8NSH*	25	12			
WA8OXC	35				
W8PT				3	
W8QOH		18			
K8VEX	23				
W8WEN		18			
W8WOG/8*	29				
K8ZES		13			
K9DZK	33				
K9WEG/9*	20				
WA9JFM	20				
W9JHL	25				
WA9OUU	28				
WA9PBW	27				
K9QCB	27				
K9RVG		12			
WAØBED	26				
WØEYE	38				
KØFKJ	20				
WAØHKP	31				
VE2SH/2*	27	13	5	2	
VE3AIB			2	2	
VE3ASO		11			
VE3BGA	25				
VE3BPR	29	13		3	
VE3BZH/2*		10			
VE3DSE				2	
VEDWL		11			
VE3EZC				3	
VE3SAU*	24	13			
VE3ZZZ*	29	11	3	2	
VE4MA/5	24				
VE4RE	28				

* Multi-operator station

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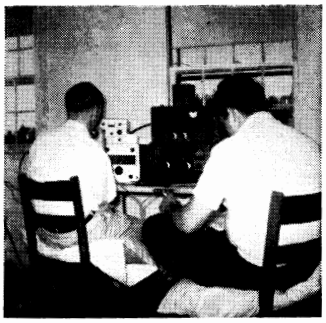


Prominent multioperator stations: left, a comfortable perspective of K1MTJ and WA2ORQ at the 2-meter position of WA2BAH/1, top scorer in New England; center, the crew of K1YLU/1 turning in a fine 4-band 22-K performance atop Mt. Wachusett in W. Mass.; right, the 6-meter station of W8NSH with K8s WEX UDJ BGZ ZKM and WA8PHK.

N.Y.C.-L.I.

K2MUB 3780-108-35-A
WB2TRD 3700-148-25-AB
WB2QLP 1804- 82-22-AB
W8ZRY/2 1672- 88-19-A
WA2SLY 1612-124-13-B
WB2MZE 1456-104-14-AB
WA2SAY 722- 30-19-ABC
WB2TBW 700- 70-10-AB
WN2TXJ* 630- 70- 9-B
W2KXG 495- 55- 9-B
WN2UFH 392- 56- 7-B
WA2ONO 344- 43- 8-B
WB2MEO 306- 34- 9-B
WA2IPC 116- 29- 4-B
WN2TWU 34- 17- 2-B
W2ZSD 16- 4- 4-B
WA2YHS (WA2s YDB YHS, WB2IQM) 8401-271-31-AB
WB2OGD/2 (WB2s LUU OGD) 1404-117-12-AB

Northern New Jersey

WA2FGK (K2LNS, opr.) 31,374-480-63-ABCD
WA2JAM 2508-132-19-B
WA2ZNH 1545-103-15-A
WA2IDH 1290- 86-15-AB
W5NFJ/2 6- 3- 2-A
W2PEZ/2 (14 oprs.) 53,690-774-65-ABCDE
W2GKR/2 (5 oprs.) 22,128-428-48-ABCD
W2ZDR (14 oprs.) 10,530-327-30-ABC
W2MFF/2 (8 oprs.) 5010-210-24-AB
K2DEL (6 oprs.) 3306-174-19-AB
WA2CMG (K2YVE, WA2CMG) 1968- 78-24-ABC

MIDWEST DIVISION

Kansas

KØITF 720- 45-16-A
WØFII 372- 31-12-A

Missouri

WAØHKP 6084-176-36-ABD
WAØBED 4446-171-26-A

Nebraska

WØBMN 420- 35-12-A

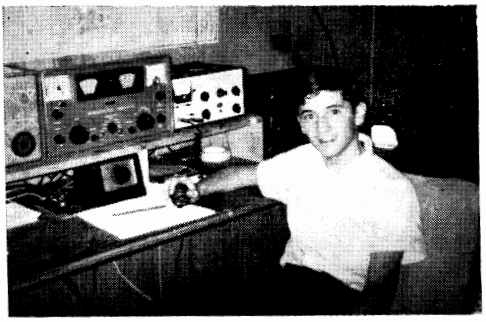
NEW ENGLAND DIVISION

Connecticut

K1WHS 16,155-359-45-AB
W1WHL 2842- 92-29-ABC
W1HNF 1760- 55-32-AB
K1YON 1680- 49-24-ABCE
W1AW (W1BGD, opr.)** 1633- 71-23-AB
W1HDQ** 1450- 58-25-AB
WA1CYU 217- 31- 7-B
WA1GIS 189- 27- 2-B
W1ADW 55- 11- 5-B
W1HDQ/1** 48- 12- 4-A
W1BGD** 21- 7- 3-B
WA1FJF 8- 8- 1-B
W1MEH (K1s LOM MFQ, W1MEH) 21,930-417-51-ABC
W1LUA/1 (7 oprs.) 17,395-349-49-ABC
K1KKK/1 (4 oprs.) 3096-129-24-AB

Eastern Massachusetts

WA1ABU 2472-103-24-A
W1OOP 2139- 70-23-BCD
W1HIL 1260- 63-20-AB
W1JSM 1232- 88-14-B
K1FFE 1040- 80-13-B
WA1DPX 348- 29-12-A
K1ZTP 330- 11- 3-A
WA1FCD 222- 37- 6-AB
W1ZSS 108- 27- 4-B
W1CTR/1 76- 19- 4-B
WA1DYU 14- 7- 2-A
W1CTR 8- 4- 2-A
WA1ETC 8- 4- 2-A
W1IPJ/1 (11 oprs.) 16,146-329-46-ABCD
WA1DPU (WA1s BME DPU) 1513- 89-17-A



13-year-old WN2TXJ lead NLI Novices with 70 exchanges in 9 sections.

Maine

K1TOL 6060-202-30-A
K1OYB 1792- 62-28-ABC
W1ASZ/1 (4 oprs.) 3600-144-25-AB

New Hampshire

W1ALE 6630-155-39-ABCD
W1DAT 198- 33- 6-B
W1HPM (5 oprs.) 9583-259-37-AB

Rhode Island

K1TPK 15,334-374-41-AB
W1POP 364- 52- 7-B

Vermont

K1GYT 3406-131-26-AB
K1TZD/1 308- 22-14-AB
K1RYT/1 (4 oprs.) 16,524-306-54-AB

Western Massachusetts

K1JIX (W2BVU, opr.) 13,720-260-49-ABCD
K1ULZ 252- 42- 6-B
W5NWG/1 120- 20- 6-B
W1UCB 96- 15- 6-ABC
WA2BAH/1 (9 oprs.) 41,440-555-70-ABCD
K1YLU/1 (7 oprs.) 22,494-469-46-ABCD
K1BZM/1 (7 oprs.) 7560-189-40-AB
W1UWX/1 (W1s EZD UWZ) 4544-142-32-AB

NORTHWESTERN DIVISION

Oregon

W7TYR 504- 54- 8-ABCD
K7ZIR 448- 54- 7-BCDE
W7ADR 115- 23- 5-A
W7JRI 8- 8- 1-B
K7AUO/7 (13 oprs.) 3840-175-20-ABCDE
W7ICS/7 (6 oprs.) 385- 75- 5-ABC
W7LNG (K7HSJ, W7LNG) 24- 8- 3-AB

Washington

K7BBO/7 1755-117-15-AB
K7NVU 960- 60-16-A
W7ZSL/7 (K7s CAL WTG, W7ZSL) 2222-193-11-ABE

PACIFIC DIVISION

East Bay

WB6CSD/6 1551-141-11-AB

Nevada

K7ICW 760- 36-19-ABCD

Sacramento Valley

W6GDO 6440-154-35-ABCDE
WA6CXB 172- 43- 4-B
W6TEE/6 30- 15- 2-AB
W6HBU (8 oprs.) 729- 81- 9-AB

San Francisco

W6AJF 918- 33-17-ABCDE
WA6JUV 28- 14- 2-B
W6BYC/6 18- 6- 3-B

San Joaquin Valley

WB6NFT 605- 55-11-AB
K6UJG 456- 38-12-ABC
W6BWK/6 (5 oprs.) 1150-115-10-AB

Santa Clara Valley

WB6KAP 2952-112-24-ABCD
K6KLY 1620- 78-18-ABD
WB6KBZ/6 786-131- 6-B
W6GD/6 (10 oprs.) 5440-129-34-ABDE
K6SLQ/6 (4 oprs.) 4446-211-19-ABCD

ROANOKE DIVISION

North Carolina

W4HJZ 1920- 80-24-AB
W4EPV 1156- 68-17-A
K4MHS 833- 49-17-AB
WA4UJI 700- 50-14-AB
K4YYJ 176- 21- 8-BD
W4PAR/4 (5 oprs.) 7844-207-37-ABCD
WA4SHA/4 (4 oprs.) 5278-203-26-AB
WA4MMO (WA4s GOS MMO) 3828-132-29-AB
WA4BNX/4 (WA4s BNX VCC YIU) 3770-145-26-AB
W4GG/4 (4 oprs.) 284- 71- 4-AB

South Carolina

K4GWY/4 (6 oprs.) 10,720-250-40-ABCD

Virginia

K4SUM 4209-178-23-ABD
WA4YXK 850- 85-10-A
K6HPR/4 26- 13- 2-B
K4LHB/4 (K3LNZ, K4LHB) 10,608-269-39-ABC
WA4JZH/4 (4 oprs.) 5520-184-30-AB
K4FJW/4 (K4FJW, W4SZP, WA4WYP) 2912-104-28-A
WA4ZGW/4 (4 oprs.) 1062- 59-18-A
WA4TRC/4 (WA4s DPT TRC YBV) 636- 53-12-AB
WØKGO/4 (W8HBN, WØKGO) 52- 12- 4-AC

West Virginia

WA8JFA 1188- 66-18-AB
WA8KYY 1122- 66-17-AB
WA8JCC 1105- 65-17-AB
K8WVP 936- 52-18-AB

ROCKY MOUNTAIN DIVISION

Colorado

WØEYE 7560-174-42-ABCDE
WØAJY 1162- 83-14-A
WAØLVM 1027- 79-13-AB
WØISL 405- 43- 9-ABD
WØHEP 270- 45- 6-AB
WB2LMK/Ø 144- 36- 4-A
KØDPN/Ø 108- 27- 4-A
WØWYX 74- 37- 2-AB

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WA5LPK/Ø 52- 26- 2-AB
WAØNEJ 46- 23- 2-AB
KØEZH 32- 32- 1-B
WØHEM 30- 15- 2-AB
WAØJRP 28- 14- 2-AB
WØSIN 16- 15- 1-B
KØADG 18- 6- 3-A
WAØINI 8- 4- 2-A
WAØJDD/Ø 4- 4- 1-A

New Mexico

W5CK 407- 37-11-AB
W5IXS/5 290- 29-10-AB
W5UFJ/5 (4 oprs.)
4611-149-29-ABD
W5HDE (4 oprs.)
1617- 75-21-ABD

SOUTHEASTERN DIVISION

Alabama

K4WHW 3197-139-23-AB
WB4ALW
1343- 79-17-A
KL7EBB/4
544- 32-17-AB
W4YRM 473- 43-11-AB
K4TUT 420- 42-10-A
WA4PHF 288- 32- 9-AB
K4ZAJ 39- 11- 3-BD
WA4GNG (WA4s GNG GNK) 960- 64-15-A

Eastern Florida

WA4STJ 923- 71-13-A

Georgia

K4HQI 312- 24-13-A
WA4QPL/4 (7 oprs.)
4284-153-28-AB

Western Florida

WA4NRP 175- 25- 7-AB

SOUTHWESTERN DIVISION

Arizona

K7EBW 68- 17- 4-AB
W7GNP/7 (K7ZWI, W7GNP) 40- 40- 1-A

Los Angeles

W6NLZ 464- 19-16-ABCE
W6QCV 459- 51- 9-AB
WA9DKH/6
300- 60- 5-A
WB6KGK/6
100- 25- 4-B
WB6FRP 92- 23- 4-B
WB6GHB/6 5- 5- 1-B
WB6KIL 4- 2- 2-B
W6SD/6 (7 oprs.)
3504-176-16-ABCE

Orange

W6HPH 210- 16- 7-BDE
WB6PHO 155- 31- 5-AB
WB6CGM 140- 28- 5-A
K6IBY/6 (6 oprs.)
8180-356-21-ABCDE
WB6CDF/6 (8 oprs.)
3834-196-18-ABCD

San Diego

WB6JLC/6
624- 78- 8-AB
W6NLO/6 (9 oprs.)
11,097-379-27-ABCDE

Santa Barbara

W8DHS/6 385- 35-11-AB
K6BPC (10 oprs.)
20,130-571-33-ABCDE
K6OKC (multiopr.)
13,423-378-31-ABCDE

WEST GULF DIVISION

Northern Texas

K5IVB 1638- 91-18-A
WA5JAF 1410- 94-15-A
WA5OMG (WA5s GUY OMG) 1530- 85-18-A

Oklahoma

W5WAX 7470-249-30-AB
WA5CXB 96- 12- 8-AB

Southern Texas

K1IGY/5 1794- 78-23-A
WA5AUA 329- 47- 7-AB

CANADIAN DIVISION

Manitoba

VE4RE 2072- 74-28-A

Maritime

VE1AI 288- 36- 8-A

Ontario

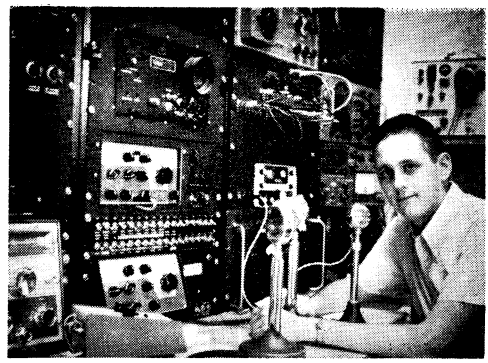
VE3BPR 8510-179-46-ABCD
VE3DWL
6690-223-30-AB
VE3BGA 5880-210-28-AB
VE3ASO 3003-273-11-B
VE3AIB 2576-104-23-ABCD
VE3EZC 1140-106-10-BD
VE3DRX 744- 62-12-AB
VE3DSE 567- 59- 9-BD
VE3CIU 450- 45-10-A
VE3DSQ 450- 75- 6-AB
VE3CSO 324- 54- 6-B
VE3CDX 200- 20-10-B
VE3CIT 120- 20- 6-AB
VE3DNR 110- 55- 2-B
VE3FXN 44- 11- 4-A
VE3GAG 37- 37- 1-B
VE3ZZZ (VE3s ABG BQN) 9058-192-45-ABCD
VE3SAU (9 oprs.)
8806-238-37-AB

Quebec

VE2BMQ 1292- 65-19-ABD
VE2AQA 390- 39-10-AB
VE2SH/2 (5 oprs.)
12,502-254-47-ABCD
VE2BZH/2 (7 oprs.)
4756-164-29-AB

Saskatchewan

VE4MA/5
2112- 88-24-A



W6GDO's suggestion from Sac. Valley to all multiband single operator stations: "Always leave a receiver with a panadaptor on six meters." Jay says it pays off in spotting band openings when you're on another band. He comments that the 50 Mc. opening was crazy with him hearing WØEYE strength 9 for about an hour while a station 100 miles away couldn't hear WØEYE. Conclusion: he guesses he had some very small, extremely stationary, ionized clouds!

September 1941

. . . The war draws a little closer. In a lengthy editorial, K.B. Warner discusses certain impending developments seriously affecting the radio amateur. The FCC is about to borrow considerable chunks of the 75-80 meter band, to be returned to us when the emergency no longer exists. This will be done in stages, as the requirements of the military dictate. The purpose is, of course to provide additional frequencies for the vastly augmented program of aircraft pilot training. It is a contribution to the war effort by the radio amateur.

. . . Along these lines, George Grammer, W1DF has a piece in which he points out the advantages of handling traffic on 160 and gives many helpful suggestions on getting the rig to perk up there. Diagrams and charts illustrate the article.

. . . Clinton DeSoto has a fine description of the National Model Airplane meet with emphasis on the role played by radio. These gas-powered jobs do about everything that a manned plane does, including spot landing, spins, loops, cross-country flights to a predetermined destination and return, etc. It's a great sport.

. . . U.h.f. converters using the new 9001-2-3 miniature tubes are described by George Grammer, W1DF. Taking advantage of the capabilities of these new tube, he comes up with what looks like a pretty straight-forward outfit. Works good, too.

. . . Continuing his discussion of five-meter wave paths, Milvin S. Wilson, W1DEI, goes into trophosperic refraction, etc. It is pretty comprehensive article and is a must for all u.h.f. men.

. . . An interesting development is taking place in Florida, called "Ham Haven." This is to be a place where hams and their families can go and enjoy a nice picnic, swimming, fishing and, of course do a little hamming.

. . . A band-edge spotting electron coupled oscillator using a 117L7GT tube is described. Its output is at 50, 100 or 1000 kc. depending on which *LC* combinations are switched into the circuit. By checking against WWV, excellent performance is obtained.

. . . Ev Battey, W1UE, who should know, discusses the secrets of good sending. Everyone who ever worked him knows that his is the sweetest "fist" to appear in many a moon. He goes into this matter pretty thoroughly. This is the real dope.

. . . Don Mix, W1TS has some words and advice concerning antennas for domestic work. A number of radiation patterns for various configurations are shown and discussed.

. . . Byron Goodman, W1JPE (now W1DX) and Hal Bubb, W1JTD describe a novel way to "halve" the frequency of a crystal oscillator, so a fellow can get on 160, using an 80-meter crystal. This works. — *W1ANA*

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