

Results, 1991 ARRL September VHF QSO Party

It's surprising what you can work with low power from a good location.—*Bob Cook, N2SB*

By Billy Lunt, KR1R and Warren C. Stankiewicz, NF1J
Contest Manager Assistant Contest Manager

If variety is the spice of life, this year's September contest offered lots of spice indeed! The weather and propagation conditions across the US and Canada were quite a mix. Several stations in the west observed great weather and good band conditions, but things seemed to fade to the east. According to W0UC and others, Rover activity helped keep things interesting in the sparsely populated central US, even with only average propagation. In the eastern states, things were downright flat, except where rain scatter made 10-GHz QSOs possible between New Jersey and Maine. K2LNS's observation that "I thought a mountain grew to the east on Saturday" said it all for many New England VHF enthusiasts, who suffered the consequences of a stalled weather front that locked them apart from the rest of the region, cutting QSO totals and top scores by a visible margin from years past.

This was our first contest without the 220-222-MHz segment. The transition was relatively smooth, as W1AIM proudly professed, "For the first time, I worked more stations on 222 than on 432!" Even QSO totals were a bit higher on the band, as many stations reaffirmed their dedication to 125 cm.

Like the June contest, the September VHF QSO Party has two popular new categories. Of the 415 logs we received this year (down slightly from last year's 440 logs), 299 came from single operators, 46 were limited-multioperator entries, 30 came from Rovers, 20 full-bore multiops reported. Two stations also sent in checklogs. In the single-op category, the 1991 contest was almost a repeat of the 1990 event, except that K2LNS's winning 173k score was down from 207k last year (and his record 235k set in 1989). WA2TEO, second last September, also repeated his 1991 June VHF QSO Party performance, finishing second by an extremely tight 1100-point margin. Despite generally worse conditions in the northeast, Jeff made more QSOs than any other single-operator station and bettered his 1990 score in the process. Third



ARRL Laboratory Engineer Zack Lau, KH6CP/1, coordinates a 10-GHz schedule on 2 meters from Mt Washington, New Hampshire, where he operated as part of the 8-man K1TR crew, the ninth-finishing multiop.

was N2CEI, up from fourth place last year, also with a significantly improved score. Stations from the first four call sign areas, W9-land and Ontario made this year's single-op top 10.

The record-setting QRP-portable score, turned in by WA3YON, up considerably from last year's winning score in that category, substantiates N2SB's opening remark. WB2DNE/1's second-place score also reflects this. Rover scores—including some big ones—came in from all over the country this September, starting this category off in an exciting way. The winning KB0ZQ Rover team set an impressive 136k scoring mark. Not far behind was WB9EEA, and the K0TLM/AJ0E team put in its second Rover effort in 1991, snagging the number-three spot.

In the unlimited multioperator category, W2SZ/1's 19 operators scored another decisive victory with almost 800k. Second was the 12-man team at N8FMD that operated from West Virginia. WQ4V, N2WM and K1WHS rounded out the top five. In the limited-multiop group, W4IY and WB1GQR led the way with scores of 178k from Virginia and 105k from Vermont, respectively. It looks as though participation in this category will remain high, as many stations find it more enjoyable than the full-scale unlimited-multiop category for a variety of reasons.

As you read this, the January VHF SS is just around the corner—get on for this

Division Leaders Single Operator

Division	Call	Score
Atlantic	WA2FGK	172,935
Central	*K9PW	83,720
Dakota	*WA0BWE	56,835
Delta	WB5IGF	27,674
Great Lakes	KE8FD	62,250
Hudson	*N2CEI	160,648
Midwest	N0LL	34,928
New England	WA2TEO	171,810
Northwestern	*KE7CX	8,722
Pacific	KF6CU	8,037
Rocky Mountain	W2CRS	9,180
Roanoke	N4HB	85,400
Southeastern	KN4QS	4,032
Southwestern	WB6FCS	9,760
West Gulf	K9MK	24,075
Canada	VE3ASO	79,194

Multioperator

Division	Call	Score
Atlantic	W3KWH	108,500
Central	W0UC/9	135,596
Dakota	—	—
Delta	KC4YO	47,710
Great Lakes	W8ULC	100,956
Hudson	N2WM	186,238
Midwest	—	—
New England	W2SZ/1	796,635
Northwestern	W7HDD	5,652
Pacific	—	—
Rocky Mountain	*N0KV	12,948
Roanoke	N8FMD	224,775
Southeastern	—	—
Southwestern	AE6E	14,640
West Gulf	WQ5S	37,740
Canada	VE6NOV	6,474

Limited Multioperator

Division	Call	Score
Atlantic	*N2WK	85,974
Central	—	—
Dakota	*WB0GGM	24,056
Delta	*N5KWB	9,891
Great Lakes	*N8HNS	28,458
Hudson	*K2AE	16,416
Midwest	*WB0DRL	76,936
New England	*WB1GQR	105,444
Northwestern	—	—
Pacific	*AA6PA	3,872
Rocky Mountain	*WA4GPM	6,441
Roanoke	*W4IY	178,374
Southeastern	*W4AQL	4,033
Southwestern	*N6RMJ	16,445
West Gulf	*K5QBM	6,210
Canada	*VE3BQN	26,688

*Division record

Top Ten

Single Operator

Call	Score
WA2FGK	172,935
WA2TEO	171,810
N2CEI	160,648
W3ZZ	117,470
N4HB	85,400
K9PW	83,720
K2UOP/4	80,656
VE3ASO	79,194
W3IP	78,100
N1DPM	70,080

Multipoperator

Call	Score
W2SZ/1	796,635
N8FMD	224,775
WQ4V	197,532
N2WM	186,238
K1WHS	146,595
W0UC9	135,596
W3KWH	108,500
W8ULC	100,956
K1TR	85,176
KC4YO	47,710

QRP-Portable

Call	Score
WA3YON	43,672
WB2DNE/1	35,870
KB6MEG	6,771
N6SUN	4,290
KT2B	3,500
N1EXG	2,873
KB4NT	2,774
K1II	1,504
N00Y	1,222
KB1VC	1,065

Limited Multipoperator

Call	Score
W4IY	178,374
WB1GQR	105,444
N2WK	85,974
W0BDR	76,936
W4BFB	63,920
W1QK	48,981
K5MA	47,479
K2XR	41,563
N8HNS	28,458
VE3BQN	26,688

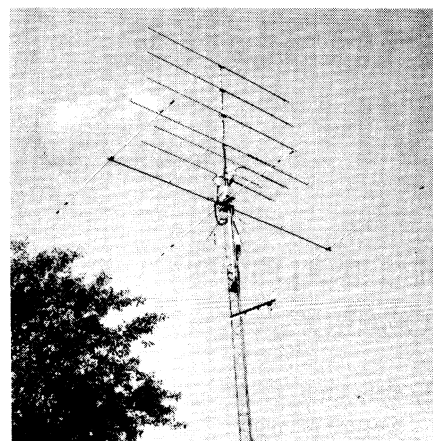
Rover

Call	Score
KB0ZQ	
(+N0HJZ)	136,504
WB9EEA	
(+AA9D)	111,366
AJ0E	
(+K0TLM)	108,864
KE9QT	47,892
KB2HQ	42,000
XE2N6CA	
(+WB9AJZ)	36,153
N3KPY	13,175
K0DI	
(+WD4DWN)	8,745
WB2VVV	8,466
WA1MKE	8,372

event, the only ARRL VHF contest in which club competition is involved. It's also a good chance to test new equipment and keep your operating skills warmed up for the June VHF QSO Party, just around the corner. See you on the weekend of January 18-20; cross your fingers that the ice man stays away!—*Rus Healy, NJ2L*

SOAPBOX

Working as a single operator on three bands is tough enough, but "armstrong" rotating the 6-meter beam in the rain takes the cake (KD1AO). My 6-meter SWR was 4:1 and my 2-meter SWR was 3:1. No wonder I couldn't hear anybody (KA1AMR). This was my first real effort in the contest. I enjoyed it (KA2AUQ). I guess everyone thought it was a one-day contest—activity was practically nil on Sunday (WN3A). I'd have traded all my QSOs for one with W5XS/0 (K5MAT). It was a good turnout for the September contest. We had great weather for the mountaintoppers and Rovers (WM7A). I arranged my schedule to be on Mohawk Mountain, elevation 1683 feet, during the contest. It's surprising what you can work with low power from a good location (N2SB/1). Conditions were good, but I didn't help myself by falling on and squashing the 903 loop antenna (KT2B). Conditions overall were good, but there wasn't much activity on 222 MHz (VE3BFM). Where were all the W7s this year? (VE6BOJ). I had a ball working my first VHF contest and I encourage other Novices to give it a try (KB2CIR). Conditions were good, but a good score is hard to come by from west Texas (WS5C). Conditions were just average, but good Rover activity helped keep us hopping! (W0UC). So many thunderstorms rolled through, I thought I was going to wear out the antenna connectors! (WB0CLL). I had a blast operating QRP portable from Block Island. Conditions seemed down, but activity seemed good (WB2DNE/1). This was my first VHF contest. My score may be small, but I had great fun! (WA5DTK). Hurricanes kept me off the top bands (K1BE). Conditions were awful! If not for a one-hour opening on 6 meters Sunday morning, I would have shut down and gone home (AE6E). I thought a mountain grew to the northeast on Saturday (WA2FGK). There was a short 1½-hour opening to the west on 6 meters (N0FFO). What a blast! (N3KPY). I was glad to see so many people made the conversion from 220



Fred Stefanik, N1DPM, uses this antenna system from his home station. This time he finished tenth in the single-operator category.

to 222 MHz (WB1GQR). My 12-year-old son got bitten by the bug and immediately started studying the code for his Novice license when he got back home (K2KGJ). I worked more stations than I did in June! (WA3GYW). Conditions were poor throughout the contest, but activity picked up on Sunday evening (W9JGV). Propagation wasn't good, but it wasn't bad, either (VE3GBA). There was more activity on FM in this contest as opposed to the other ones (WY2H). Conditions were fair, but where was the activity? I probably could have worked 11-15 more grids if stations had been on (WA3HMK). 222 isn't dead! For the first time, I worked more people on 222 than on 432 (W1AIM). The lack of openings made it sort of a "brute force" contest (N1DIQ). Conditions were poor this year (AA5IB). Propagation was average during the contest in this area (W1EJ). I'm 10 years old and this was my first VHF contest! (N1JJJ). Conditions were poor. There was weak scatter to the northeast on Sunday morning, and about 30 seconds of E_s (N9BJG). It's amazing how well the signals came in (N1JJJ). The limited-multioperator class is perfect! (W1QK). Next time I'll operate as a Rover

Single Operator QSO Leaders By Band

50 MHz	144 MHz	222 MHz	432 MHz	902 MHz	1296 MHz	2304 MHz
WA2TEO 189	WN3A 343	N2CEI 80	K1FO 134	WA2TEO 31	WA4VHF 45	N2CEI 14
WA2FGK 138	WA3HMK 342	N8IQX 63	WA2TEO 116	N2CEI 31	WA2FGK 44	N3CX 9
W3EP/1 119	WA2TEO 313	WA2TEO 62	NC1I 109	WA2FGK 24	N2CEI 41	WB1FKF 5
K3ZO 115	WA2FGK 303	WA2FGK 55	WA2FGK 93	N4HB 22	W3IP 35	WB2YEH 5
N2CEI 113	WB2QOQ 286	KA2RDO 49	N2CEI 84	W3ZZ 20	N4HB 34	N1DPM 3
W2HRW 103	K3ZO 280	W1EJ 46	W3ZZ 81	K2UOP/4 20	K2LME 32	W3IP 3
WA1VRH 99	W0EH 261	N1DPM 46	W2HRW 77	N1DPM 18	K2UOP/4 32	
N1DPM 80	WA1VRH 259	WB2QCJ 45	N4HB 73	WB2YEH 16	W3ZZ 29	
W3ZZ 80	VE3ASO 221	W3ZZ 45	WB8K 73	N2BFJ 15	WA2TEO 28	
KA2RDO 79	K2QE 214	WA3EOQ/8 42	WA0BWE 70	W3IP 15	WB2YEH 26	
W2XL 78	W3ZZ 212	KA2AEV/1 39	VE3KDH 67	N3CX 14	K1FO 25	
N2LIV 75	N2CEI 201	WA1HYN 38	K9PW 62	N2LIV 13	N2LIV 25	
VE3KDH 71	VE3KDH 185	VE3ASO 38	N1DPM 61	WB1FKF 11	N1DPM 22	
W3HHN 70	W2HRW 183	WA2BAH 37	K2UOP/4 61	VE3ASO 10	N2BFJ 22	
W3IP 70	W3IP 176	N2BJ 37	KE8FD 60		N3CX 21	
KU8Y 70						

Single Operator Multiplier Leaders By Band

50 MHz	144 MHz	222 MHz	432 MHz	902 MHz	1296 MHz	2304 MHz
K3ZO 52	W0EH 69	N2CEI 30	K9PW 40	WA2TEO 17	WA2FGK 23	N2CEI 7
WA2TEO 39	WA8MZQ 63	WA3EOQ/8 30	W3ZZ 36	N2CEI 15	WA4VHF 21	N3CX 7
WA1VRH 37	K9PW 61	K9PW 29	KE8FD 36	WA2FGK 15	N2CEI 18	WB1FKF 4
WA2FGK 37	K3ZO 56	WB2QCJ 27	WA2FGK 35	N4HB 13	W3IP 18	WB2YEH 3
K9PW 37	KE8FD 54	WA2TEO 25	WA0BWE 35	W3ZZ 12	N4HB 16	W3IP 3
NW3C 36	WA3HMK 53	WA2FGK 25	WB8K 33	W3IP 11	K2UOP/4 16	
N0LL 35	W3ZZ 51	W3ZZ 25	K1FO 30	N1DPM 10	K2LME 15	
N2CEI 33	WN3A 48	KE8FD 24	N2CEI 30	N2BFJ 10	W3ZZ 15	
K8MFO 33	WA2FGK 47	KA2RDO 23	N4HB 30	WB2YEH 10	WA8TJL 14	
WBSIGF 32	WA2TEO 45	WA8TJL 22	WA2TEO 29	K2UOP/4 10	VE3ASO 14	
WA8FTA/9 32	WA0BWE 45	VE3KDH 22	K2UOP/4 29	N2LIV 8	N1DPM 12	
WB0CLL 32	WA1VRH 44	N4HB 20	WB0CLL 29	N3CX 8	N2BFJ 12	
W3ZZ 31	K23X 44	N1DPM 19	VE3KDH 29	VE3ASO 8	N3CX 12	
W3EP/1 30	W9JGV 44	KU8Y 19	K0IR 28	WB1FKF 6		
W3IP 30	W0RWH 44	WA0BWE 19	WA8TJL 27	W4FSO 6		
KU8Y 30		VE3ASO 19	WA8MZQ 27			
WA8TJL 30						

Multioperator QSO Leaders By Band

50 MHz	144 MHz	222 MHz	432 MHz	902 MHz	1296 MHz	2304 MHz
W2SZ/1 396	W2SZ/1 510	W2SZ/1 126	W2SZ/1 295	W2SZ/1 55	W2SZ/1 90	W2SZ/1 56
N2WM 210	N8FMD 431	WB1GQR-L 88	W4IY-L 128	K1WHS 20	W4IY-L 47	K1WHS 10
W4IY-L 171	W4IY-L 391	N2WM 61	WB1GQR-L 127	K2XR-L 18	K2XR-L 36	WQ4V 8
K5MA-L 156	N2WM 389	K1TR 56	K1WHS 108	W3KWH 16	WB0DRL-L 36	N2WM 6
K1WHS 156	WB1GQR-L 340	N8FMD 53	N8FMD 107	N2WM 14	N2WM 33	K1TR 4
N8FMD 155	K1WHS 285	K1WHS 50	N2WM 104	N8FMD 11	W3KWH 28	W3KWH 4
WQ4V 154	K1TR 282	N2WK-L 49	WQ4V 93	K1TR 9	K1WHS 26	
N2WK-L 142	W1QK-L 265	N8HNS-L 45	K1TR 92	WQ4V 9	W0RSJ 23	-L after the call
WB1GQR-L 139	K5MA-L 263	W0UC/9 42	K5MA-L 91	KC4YO 6	WQ4V 22	indicates limited
K1TR 129	W8ULC 253	N6RMJ-L 41	N2WK-L 89	W8ULC 6	K2BWR 20	multioperator
AC3H-L 126	WQ4V 238	W1QK-L 39	W0UC/9 83	VE6NOV 6	N8FMD 20	
W1QK-L 116	W3KWH 211	WQ4V 35	K2XR-L 71	WQ5S 5	W0UC/9 18	
W0UC/9 113	N2WK-L 205	K2BWR 34	WB0DRL-L 70	W1OP 3	W4BFB-L 17	
N2LXD-L 105	W0UC/9 205	W3KWH 33	W4BFB-L 65	N0KV 3	K1TR 15	
W8ULC 97	W4BFB-L 194	W1OP 30	W3KWH 60		KC4YO 12	
					W8ULC 12	

Multioperator Multiplier Leaders By Band

50 MHz	144 MHz	222 MHz	432 MHz	902 MHz	1296 MHz	2304 MHz
W2SZ/1 66	N8FMD 78	N8FMD 35	W0UC/9 48	W2SZ/1 20	W2SZ/1 25	W2SZ/1 15
WQ4V 66	W8ULC 71	W0UC/9 28	W4IY-L 47	K1WHS 11	W4IY-L 25	K1WHS 7
W0UC/9 63	W0UC/9 69	W2SZ/1 27	W2SZ/1 46	W3KWH 11	WB0DRL-L 25	WQ4V 5
N2WK-L 51	WQ4V 67	N8HNS-L 27	WQ4V 44	N2WM 9	W3KWH 19	K1TR 3
W4IY-L 51	W4IY-L 63	N2WM 25	N8FMD 40	N8FMD 9	K2XR-L 18	N2WM 3
N8FMD 51	W3KWH 54	W3KWH 25	WB0DRL-L 39	WQ4V 8	N2WM 16	W3KWH 3
WB0DRL-L 50	W2SZ/1 53	WB1GQR-L 23	W4BFB-L 33	K1TR 5	WQ4V 13	
W4BFB-L 43	N2WM 51	WQ4V 23	W3KWH 32	KC4YO 5	W4BFB-L 13	-L after the call
WQ5S 42	KC4YO 49	K1WHS 21	W8ULC 32	W8ULC 5	K1WHS 12	indicates limited
W8ULC 40	WB0DRL-L 49	W8ULC 21	N2WM 29	VE6NOV 4	N8FMD 12	multioperator
N2LXD-L 39	W4BFB-L 47	N2WK-L 20	W0RPK-L 27	W1OP 3	K2BWR 11	
N2WM 34	VE3BQN-L 44	K2BWR 19	KC4YO 26	N0KV 3	W0RSJ 11	
W0RPK-L 33	N2WK-L 43	W0RPK-L 19	WB1GQR-L 25	WQ5S 2	W8ULC 10	
WB1GQR-L 31	KM4XG-L 41	W1QK-L 18			W0UC/9 10	
AC3H-L 30	N8FWL-L 38	K1TR 15			KC4YO 9	
	WB0GGM-L 38	W0EQU-L 15				

(W2GKO). It was a slow-going contest. There were no enhanced conditions on any band (N2CKH). The price was high; I lost two preamps, one relay and an amplifier. It was worth it, though (WB8K). Two electrical storms hurt propagation and the poor band conditions made every contact a battle! (VE3KDH). It's amazing who and where you can work on 222 MHz with 75 watts to a dipole while driving down the interstate at 65 mi/h (NN9K). The 432-MHz tower-mounted preamp acted up at the start of the contest and I had to solder an N connector 48 feet in the air in the dark (WA1LBK). I enjoyed the contest, even though there were no 6-meter openings. I especially enjoyed working W2CRS on Pike's Peak (W5AL). Rovers make it interesting, especially when they operate multiple bands (WA9LZM). It's time to chalk up another one for the high-torque "Armstrong" rotator (N2KMX). We were investigated by the police,

buzzed by a private plane, and had a National Guard helicopter hover over us trying to figure out what all the aluminum was for (N2WM). There weren't as many "DXpeditioners" as there were in June, but there were a lot more Rovers (K6QM). Working QRP portable with good band conditions was a lot of fun! (KB6MEG). We had beautiful weather for mountaintopping, but there wasn't any good tropo (N8FMD). Where's all the simplex activity on 222 MHz? (N8HNS). The tropo on 144 MHz Saturday evening and the scatter on 50 MHz Sunday morning were the only signs of propagation I could hear through the rain and static (K7VNU). Conditions weren't nearly as good as they were in June, but we had fun and made a reasonable number of contacts (VE6NOV). It was great to operate without any line noise for a change. It made all the difference in the world (K3ZO). I've never seen so much activity out of FN41. The

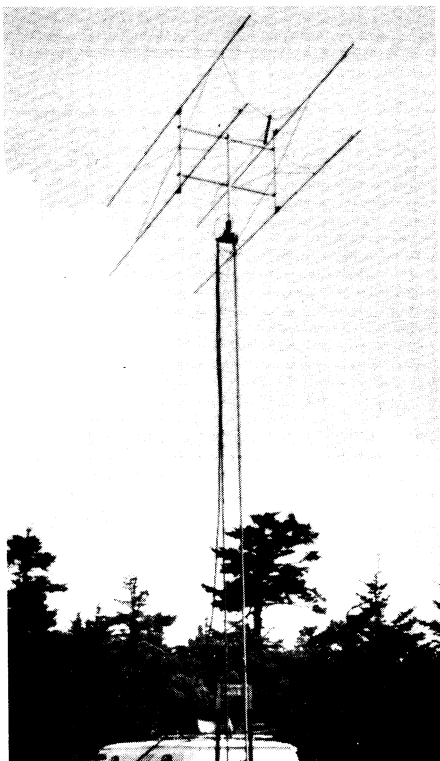
weather in the northeast dampened plans for a lot of people, including some planned 10-GHz QSOs (K1LPS). It was a great weekend (AA6PA). This was the most different bands I've operated yet in a contest! QRP is where the fun is at! (WA7PIB). Our focus was on operator training, including 6-meter meteor scatter and weak-signal procedures. Contest CW improvement classes will be held over the winter (W0RPK). We had a ball! (WA1QZK). Band conditions were poor. All things considered, it was a great experience for everyone involved (W0EQU). Have the W8s seceded from the Union? It was slow going to the west. Activity was poor, but the contest is still fun (KA2RDO). We got a lousy break on conditions again. I wasn't able to spend enough time to run up a good score, but I managed to work my 60th grid (W1PSG). Conditions were great on 2 meters, but we needed more activity. Six meters was quiet (WA2SLY). Condi-



WB9EEA (left) and AA9D (right) placed second in the Rover category.

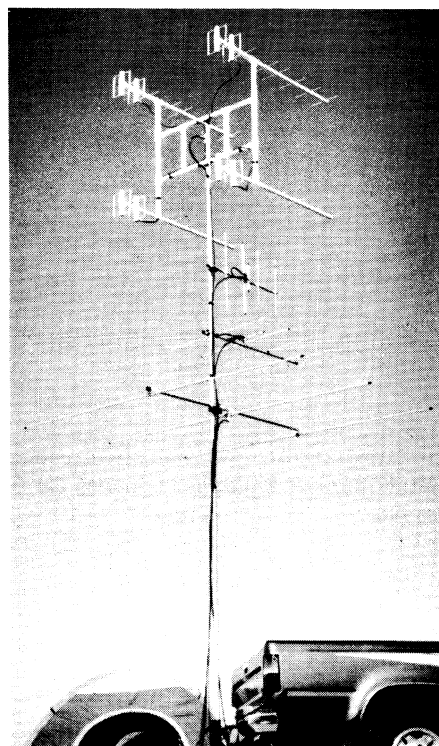


W2CRS suffered a bent antenna mast in 70-mi/h winds atop Pike's Peak in Colorado.



The third-place multioperator station, WQ4V, West Virginia, used this antenna system and operating position on 432 MHz.

tions were poor throughout the contest at my location (KD3SW). Conditions were fair for most of the contest and the turnout was the best for a September contest yet (WQ5S). Activity was fairly good, considering everything else that was on that weekend (K9OSH). I was surprised to do as well as I did with poor band conditions (VE3SMA). It was good to hear and work so many new call signs in the contest (WA2TEO). I wish the 6-meter ops would have been more persistent chasing meteor-scatter QSOs around local sunrise. I heard lots of moderate bursts, but no QSOs (AJ6T). Activity was way down here, I didn't hear anything on FM (W8XT). I enjoyed the contest, as always. The transition to 222 MHz seemed smooth, but my transverter quit after five QSOs (WA2UDT). There was a decent tropo opening Sunday morning, but I wish more people had gotten in on it (WA1VRH). I didn't do as well as I did in the last contest I was in. The band conditions seemed squirrely and I'm not sure why (KA3VGD). I roughly doubled my score from last year, partially because of beating the bushes on FM (N0KV). I was happy to work K0MVJ on 2304 in the contest, having tried several times earlier in the summer without success (NT0V). I went camping on top of a mountain in the fog and rain—I don't get that wet in the shower! (N1EXG). I found the conditions on the microwave bands enhanced Sunday morning and again Sunday night (N3CX). I heard more than I could work, I guess I need to get the amplifier online (K1OYB). My thanks to all the ops who took the extra time to dig out my weak signal (WA3YON). I was pleased to catch a surprise E_s opening on 6 to California, though it was hard attracting attention with only 10 watts. There was tropo enhancement to Dallas/Ft Worth on 144 and 432 Sunday morning (N00Y). I hope to have all the bands running for the next one (KC1ZU). It seems that September has good conditions only one year out of five. Next year, I'll run more power or be certified to an insane asylum (W3ZZ).



These simple antennas helped Jim Marino, KB6MEG, place third in the QRP-portable category, up three spots from his 1990 finish.

SCORES

Scores are by ARRL/RAC Sections. Within each Section, single-operator scores are listed first, followed by QRP-portable, multioperator, and limited-multioperator scores. Rover scores are listed by division. From left to right, each line lists: call sign, score, QSOs, multipliers, class (S = single operator, Q = QRP-portable, M = multioperator, L = limited multioperator) and bands worked (A = 50 MHz, B = 144 MHz, C = 222 MHz, D = 432 MHz, 9 = 902 MHz, E = 1296 MHz, F = 2.3 GHz, G = 3.4 GHz, H = 5.7 GHz, I = 10 GHz, J = 24 GHz, K = 47 GHz, L = Light). Among single-operator stations, winners are noted with band letter(s) in **boldface** print indicating the band won.

1 Connecticut									
WA2TEO	171,810	739	166	S	ABCD9E				
WA1VRH	42,600	392	100	S	ABD				
K2LME	25,632	230	72	S	BCDE				
W3EP/1	16,043	263	61	S	AB				
K1FO	14,063	159	41	S	DE				
KD1AO	3,780	95	35	S	ABD				
K1THP	2,190	73	30	S	ABD				
K1GAO	1,278	55	18	S	BD				
K1CPJ	1,100	48	20	S	BCDF				
K1WVX	1,098	57	18	S	ABD				
KB1ZB	966	41	21	S	ABD				
N1GVV	816	68	12	S	B				
WB1U	396	33	12	S	B				
W1FAJ	252	14	9	S	C				
AA2Z	136	16	8	S	BD				
KA1QAS	4	1	1	S	F				
N1EXG	2,873	129	17	Q	BCD				
N2SB/1	460	23	10	Q	D				
W1QK (+KA1SYG,N1ABY)	48,981	472	87	L	ABCD				
WA1MMZ (+K1JX)	4,836	153	31	L	BD				
Eastern Massachusetts									
WB1FKF	30,627	206	83	S	ABCD9EFGHI				
N1BWT	16,744	230	56	S	ABCD9I				
KX1C	12,240	200	48	S	ABCD				
W1GXT	4,736	114	32	S	BCD				
AJ1E	4,727	117	29	S	BDE				
N1GZZ	3,275	102	25	S	BD				
K1MBO	2,704	101	26	S	ABC				
KC1ZU	1,995	133	15	S	B				
W1ZNY	1,620	90	18	S	B				
AA1O	880	45	16	S	BD				
W1PSG	585	45	13	S	B				
KA1AMR	396	33	12	S	AB				
WA1LBK (+N1IGJ)	7,335	115	45	M	ABCD				
K5MA (+KA1IOR,N1HOQ,WA1s GPO,YKN)	47,479	510	79	L	ABD				
WA1QZK (+K1DFD,WA1KAT)	2,736	107	24	L	ABD				
Maine									
NY1E	5,600	160	35	S	AB				
W1XN	2,350	94	25	S	AB				
W9KDR/1	816	43	17	S	BD				
K1OYB	741	31	19	S	ABCD				
W1PLX	630	42	15	S	B				
K1WHS (+AFIT,K1s MNS,WHS,KY1K,WA1NIE, W3HQ1)	146,595	674	145	M	ABCD9EFGI				
New Hampshire									
W1EJ	26,208	252	72	S	ABCD9E				
KA1CDZ	8,568	146	42	S	ABCD9E				
WA1T	6,006	130	39	S	ABD				
AC1J	4,800	110	32	S	BCD				
KB1SO	2,976	124	24	S	B				
KA1LMR	546	34	14	Q	ABCD				
K1TR (+N1AFQ,WA1WOK,WB1DSW,AA2Z,NJ2L, KM3T,KH6CP)	85,176	593	104	M	ABCD9EFGI				
WA1ZYX (+KA1s MTM,QFA,N1BAC,WK1P)	4,928	161	28	L	BCD				
AE1D (+N0NDQ)	672	84	8	L	B				
Rhode Island									
WA1HYN	13,362	175	51	S	BCD				
KA2AEV/1	8,028	184	36	S	BC				
AH1K	1,700	85	20	S	B				
WB2DNE/1	35,870	282	85	Q	ABCD				
W1OP (K1s DS,PLX,N1JDA,NZ1K,ops)	15,105	192	57	M	ABCD9E				
W1AQ (K1s AGA,GBU,KA1WVH,KM1X,NO1U,WA1s AHK,VPC,ops)	18,361	255	61	L	ABCD				
Vermont									
W1AIM	10,488	145	57	S	ABCD				
K1LPS	7,755	127	47	S	ABCD				
N1DIQ	780	39	20	S	AB				
KA1BSZ	720	60	12	S	B				
WB1GQR (KA1LEX,WB2JSJ,ops)	105,444	694	116	L	ABCD				
Western Massachusetts									
N1DPM	70,080	388	120	S	ABCD9EF				
K1ISW	14,448	207	56	S	ABCD				
NA1W	8,225	131	47	S	ABCD9E				
WA2TIF	7,668	168	36	S	BD				
NC1I	5,450	109	25	S	D				
K1BE	3,776	89	32	S	ABCD				
N1FUS	2,240	104	20	S	BD				
WA3EEC	867	46	17	S	ABCD				
K1JG	680	40	17	S	B				
N1JJD	210	22	7	S	ABCD				
WA1ZUH	98	14	7	S	B				
K1II	1,504	94	16	Q	AB				
KB1VC	1,065	61	15	Q	ABDI				
WT1W	982	59	14	Q	ABD				
W2S2/1 (K1s DH,NKR,K1PRT,WA1s UGE,ZMS, AB2I,KE2TP,N2s GXH,HF1,K2,NCI,W2AFQ,WA2s AAU,SPL,WB2KMY,WS2B,WG3AKL,WABUSA,ops)	796,635	1635	281	M	ABCD9EFGHI				
2 Eastern New York									
W2XL	20,724	267	66	S	ABDE				
WA2BAH	15,072	244	48	S	ABCD				
W3HHN	6,552	188	39	S	AB				
K2XA	6,061	167	29	S	BD				
K2OE	5,992	214	28	S	B				
N2LDR	3,844	105	31	S	BD				
WM2Y/1	3,078	114	19	S	ABCD				
N2IGX	2,574	117	22	S	B				
WB2VQ	2,425	89	25	S	ABC				
WB2ECL	2,220	113	15	S	ABCD				
W2GKR	1,755	65	27	S	AB				
K2CT (N2JBI,op)	1,368	109	12	S	ABC				
WY2H	1,288	73	14	S	BD				
KA2MCU	1,241	54	17	S	ABCD				
WB2MRX	1,168	73	16	S	AB				
KA2AUQ	1,125	75	15	S	B				
N2KMX	1,088	64	17	S	B				
N2KFR	924	71	11	S	BD				
WA2KPD	552	55	8	S	BC				
K2RI	504	44	9	S	BCD				
WB2OEE	407	37	11	S	B				
N2LJU	225	45	5	S	B				
KA2VNP	116	23	4	S	BD				
KB2CR/N	112	14	4	S	C				
WA2SRP	52	13	4	S	B				
WA2OYV	40	20	2	S	AB				
W2VDI	39	13	3	S	B				
WA2FME	36	18	2	S	AB				
KB2KXC	24	10	2	S	BD				
KD2IX	12	3	2	S	D				
K2BST	2	2	1	S	B				
K2KGJ	688	38	16	Q	ABCD				
W2GKO (W2GKR,op)	520	40	13	Q	AB				
K2AE (KB2FTX,N2AQZ,W2s CJO,KE,W2ZX,ops)	16,416	249	54	L	ABCD				
NY2U (KA2s JZJ,VBI,N2LUD,WA3RKB,ops)	2,679	120	19	L	BD				
NYC-Long Island									
N2LIV	51,254	356	98	S	ABCD9EF				
N2BFJ	42,669	283	99	S	ABCD9E				
WA2EIO	6,786	122	39	S	BDE				
WA2SLY	5,053	163	31	S	AB				
WB2AMU	45	9	5	S	A				
K2OVS	28	7	4	Q	A				
Northern New Jersey									
N2CEI	160,648	569	172	S	ABCD9EFG				
N2CKH									
WB2QOQ	11,033	156	59	S	ABCD				
AA2U	10,296	286	36	S	B				
WA2UDT	6,468	101	49	S	ABCD				
AK2F	5,632	102	44	S	ABCD				
KT2B	5,617	107	41	S	ABD				
N2WM (+K2BJG,N2s AAZ,HMM,WA2FCF,WD3R)	3,500	75	28	Q	ABDEF				
186,238	819	169	M	ABCD9EFI					
NX2Q (+NJ2Y)									
1,480	64	20	L	AE					
Southern New Jersey									
WB2YEH	49,980	308	98	S	ABCD9EFG				
W2HRW	25,960	363	59	S	ABD				
W2EIF	13,888	156	62	S	ABCD9E				
W3BFC	4,524	156	29	S	B				
K2BWR (+K2ZRJ)	28,569	198	89	M	ABCD				
Western New York									
KA2RDO	57,466	350	118	S	ABCD				
KA2ENE	4,410	112	35	S	ABD				
W2XG	3,060	128	17	S	ABCD				
KE2GD	2,450	70	35	S	B				
WB2QJG	2,430	45	27	S	C				
W2WGL	2,368	57	32	S	BD				
N2WK (+KD5RO,KE2WK)	85,974	465	138	L	ABCD				
N2LXD (+N2s IYM,JYG,LXS,LYZ,MLT,NY2Z, WA2SXH,ops)	15,244	205	74	L	ABD				
3 Eastern Pennsylvania									
WA2FGK	172,935	658	183	S	ABCD9EG				
WA3HMK	18,126	342	53	S	B				
N3CX	16,740	107	60	S	BCD9EG				
WNXA	16,464	343	48	S	B				
K2AK	8,864	156	44	S	B				
KA3B	6,832	52	16	S	B				
KW3F	572	42	13	S	B				
KA3VGD	324	36	9	S	A				
WB1J	4	2	2	S	A				
WA3YON	43,672	281	106	Q	ABCD9E				
W0RSJ (+N2MVP)	40,280	318	95	M	ABCD				
AC3I (+KA3s UBG,WSY,N3s HRQ,IHK,IPR)	15,540	259	60	L	AB				
Maryland-DC									
W3ZZ	117,470	467	170	S	ABCD9E				
W3IP	78,100	369	142	S	ABCD9EFI				
K3ZO	42,660	395	108	S	AB				

KA3NTX	4,216	83	34	S	BDE
WA4VHF	2,835	45	21	S	E
K3YDX	986	58	17	S	B
WA3GYW	703	37	19	S	AB
KD3SW	209	19	11	S	B
KE3Q	96	16	6	S	B

Western Pennsylvania

N3FYD	29,498	233	98	S	ABCDE
NW3C	13,588	172	79	S	AB
WB8WVG	45	9	5	S	AB
W3KWH (A13V,KA3KSD,N3BAP,WA3TTS,WB3EML,ops)	108,500	403	175	M	ABCD9EFGHI

4

Alabama

KN4QS	4,032	84	48	S	AB
WB8RDY	748	34	22	S	AB
KB4FAI	345	23	15	S	B
KB4PMB	140	14	10	S	B
WA4VUG	66	11	6	S	B
KE4BM	817	43	19	Q	B

Georgia

KA4KIF	594	25	18	S	ABD
W4AQL (N7FT,N8HZQ,ops)	4,033	89	37	L	ABDE

Kentucky

WN4KKN	20	5	4	S	B
AB4CR (+AC4BP,KN4DL)	15,484	169	79	L	ABD

North Carolina

WA1EHL	27,755	212	91	S	ABCDE
W4FSO	14,773	127	79	S	ABCD9
KC4FWC	7,701	78	51	S	ABCD9EFGHI
N4YJZ	5,358	105	38	S	BCDE
N4KWX	1,682	40	29	S	ABD
WA4WZP	968	52	19	S	B
W4WV (+N3AHL,A4AS,AB4RU,N4s HSM,OOT,W4Ds IIS,JQV,MBK,WSAF)	197,532	575	236	M	ABCD9EFGHI
W4BFB (WB2NHQ,K4s JQU,PDY,TP,KBAUFO,K4Cs FSC,YPD,ZTK,KD4BGZ,N4s LFX,YYN,WB4s PCJ,TLX,ops)	63,920	371	136	L	ABDE
KK4PF (+N5AYD)	19,380	181	85	L	ABCD

North Florida

N4TWX	1,728	46	32	S	ABD
-------	-------	----	----	---	-----

South Carolina

WA4VCC	39,200	249	112	S	ABCDE
KM4ID	1,728	44	32	S	ABD

South Florida

W4GJO	2,142	54	34	S	ABD
N4XEO	210	27	7	S	BD
K4SC	99	11	9	S	AB

Tennessee

N4USG	756	36	21	S	B
AD4F	88	11	8	S	A
KC4YO (+AC4s HG,HH,KD4XJ,KM4XW,WA4GBE,WD4EWX)	47,710	270	130	M	ABCD9E

Virginia

N4HB	85,400	389	140	S	ABCD9E
K2UOP/4	80,656	362	142	S	ABCD9EF
K9OYD/4	9,955	114	55	S	BD9E
WB4BVY	8,892	134	52	S	BDE
W4DO	8,800	105	55	S	ABCD9E
K4FTO	7,332	139	47	S	ABD
WA4QVW	6,240	118	48	S	ABD
K4ME	680	40	17	S	B
N4BG	496	31	16	S	B
WA1ZX	207	23	9	S	B
KC4IUK	119	17	7	S	B
KB4NT	2,774	60	38	Q	ABD
W4IY (KA4HWG,KA4RRU,KJ4NG,KO4FM,WB4s NFS,RDU,RMJ,K8MLM,K8RI,ops)	178,374	737	186	L	ABDE
K2XR (K2s JWE,OWR,N2KWO,ops)	41,563	288	89	L	BD9E
KM4XG (+KV3H)	7,687	187	41	L	B
KC4YHI (+KC4s WQC,YMB,KD4s DEP,EMD,LVH,N4LZJ,KL7JLK)	3,441	93	37	L	AB

5

Arkansas

WB5IGF	27,674	211	101	S	ABCDE
--------	--------	-----	-----	---	-------

Louisiana

W5FYZ	966	42	23	S	AB
N5KWB (+N5JBZ)	9,891	131	63	L	ABD

Mississippi

WD5CCA	924	35	22	S	ABD
--------	-----	----	----	---	-----

New Mexico

K5MAT	1,480	56	20	S	ABCD
N5JHV	1,015	33	29	S	ABD
KN5S	150	13	10	S	ABD

North Texas

K9MK	24,075	227	75	S	ABD9E
AA5IB	11,658	139	67	S	AB
W8VX	2,106	78	27	S	B
WD5EWD	1,404	48	27	S	ABD
N8DR	45	9	5	S	B
WQ5S (+AA5AM,KY5N)	37,740	244	111	M	ABCD9EFGH
K5QBM (N4IR,AA5IB,KB5NZY,N5s DZS,SEU,SKT,SNE,SUR,UTI,W5TUI,WB5s FQO,SGN,TTQ,ops)	6,210	113	45	L	ABCD

Oklahoma

K5SW	15,147	127	81	S	ABCDE
------	--------	-----	----	---	-------

South Texas

KB5IUA	4,455	80	45	S	ABD
KC5FP	532	20	19	S	ABCD

West Texas

W5AL	5,088	73	48	S	ABCDE
W5SC	390	26	15	S	B

6

Los Angeles

WB2ODH/6	6,120	103	45	S	ABCDE
W6BIL	3,379	106	31	S	ABC
AE6E (+AD6C,WA6OTU)	14,640	190	60	M	ABCD9E
N6RMJ (+K2LCT)	16,445	195	65	L	ABCD
W6UE (+N6LL)	1,254	57	22	L	AB

Orange

WB6FCS	9,780	133	61	S	ABCD
W6BFT	795	53	15	S	AB
W6XD	260	20	13	S	AB

Pacific

N16E/KH6	522	29	18	S	A
----------	-----	----	----	---	---

Santa Barbara

N6OOA	912	39	19	S	ABC
K6VMN	324	27	12	S	AB
W6EJO	231	13	7	S	CEI
KC6TJV	220	22	10	S	B

Santa Clara Valley

KF6CU	8,037	117	57	S	ABCD
AJ6T	2,162	94	23	S	AB
KB6NAN	126	18	7	S	A
AA6PA (+K6KOP)	3,872	108	32	L	BD

San Diego

K6QM	1,092	78	14	S	B
KB6MEG	6,771	131	37	Q	ABCD
N6SUN	4,290	112	26	Q	BCD

San Joaquin Valley

N6UGR	728	56	13	S	B
-------	-----	----	----	---	---

Sacramento Valley

N6KBX	1,825	65	25	S	B
W6SYY	714	34	21	S	B
W6LLP	360	40	9	S	B

7

Arizona

N7AMA (+WA7JTM)	1,972	68	29	L	AB
-----------------	-------	----	----	---	----

Eastern Washington

N7JGO	770	30	22	S	ABD
-------	-----	----	----	---	-----

Montana

W7KNT	9	3	3	S	A
-------	---	---	---	---	---

Nevada

NC7K	2,376	99	24	S	B
NW7O	2,325	60	31	S	ABDE
K6KL	1,161	40	27	S	BD
WA8YPL	348	29	12	S	B

Oregon

KE7CX	8,722	132	49	S	ABCD9E
K7HSJ	275	23	11	S	ABCD
W7ZRS	180	20	9	S	B

Utah

NJ7A	1,704	58	24	S	ABD
WB7REL	910	30	26	S	ABD
WA7PIB	280	15	14	Q	ABD
WA4GPM (+W7VXW)	6,441	99	57	L	ABD

Western Washington

WM7A	8,352	130	48	S	ABCDE
K7ND	952	56	17	S	B
N3CCW	407	33	11	S	BC
W7HDD (+W7YOZ)	5,652	105	36	M	ABCD9E

8

Michigan

KU8Y	33,744	238	111	S	ABCDE
K8MD	15,795	129	81	S	ABCD9E
KB8JI	14,186	130	82	S	ABCD
N8LMT	4,485	115	39	S	B
WB8TGY	3,738	82	42	S	ABC
N8IQX	1,764	63	14	S	C
NX8J	77	11	7	S	B
N8HNS (+K8OOK,KB8s AFS,KQB,WA8TON,WB8s EET,NSI)	28,458	203	102	L	ABCD

Ohio

KE8FD	62,250	297	150	S	ABCDE
WA8TJL	56,990	284	139	S	ABCD9E
WA8MZQ	27,664	212	112	S	ABD
WB8K	25,536	231	84	S	ABD
K8MFO	11,492	169	68	S	AB
WB8JAY	2,808	64	36	S	BD
KB8ZW	2,112	41	33	S	ABCD9E
WA8NFX	1,794	58	26	S	BD
N18O	1,537	37	29	S	ABCD9E
WA8SVV	1,032	43	24	S	AB

K8MR	731	43	17	S	B
WA8RCN	153	17	9	S	B
W8XT	3	3	1	S	A
W8ULC (+N4EQT,KA8s SSB,YYT,N8s CLV,MFS)	100,956	448	179	M	ABCD9E
WA8NJR (+KB8HLL)	20,826	182	89	L	ABCD

West Virginia

WA3EOQ/8	4,662	56	37	S	CE
WA8YCG	1,150	46	25	S	B
N8FMD (+KA8ZXP,KB8EUN,KD8BC,KV8S,N8s FMD,HON,NPP,OCV,QJK,OKV,WJ8G)	224,775	777	225	M	ABCD9E
N8FWL (+KA8OTX,KB8s FUS,GDU,KF8OX,N8s FWL,KEE,MRD,PRU,WB8CNN,WU8Q)	14,742	165	81	L	ABCD

9

Illinois

K9PW	63,720	327	182	S	ABCD9E
N2BJ	25,122	214	79	S	ABCD9E
WD9FBL	8,778	103	57	S	ABCD9E
W9JGV	6,160	140	44	S	B
N9KC	6,084	71	39	S	BCDE
N9BJG	4,316	71	52	S	ABD
WB9GKA	1,624	44	29	S	ABD
WA8FTA/9	1,600	50	32	S	A
N9AQ	1,275	51	25	S	B
WB9MXX	817	43	19	S	AB
WB9OB	540	36	15	S	B

Indiana

W9CSF	20,493	198	81	S	ABDE
W9OEH	18,009	261	69	S	B
WB9YFE	8,241	103	67	S	ABCD

Wisconsin

W9FX	10,458	138	63	S	ABCD
W1BZ	4,608	128	36	S	B
WA9LZM	4,067	77	49	S	ABD
W9YCV	2,835	66	35	S	BD
WA9HCZ	2,376	60	33	S	ABD
K9OSH	2,112	53	32	S	ABD
WA1UJW/9	2,070	69	30	S	B
W5ONL	880	40	22	S	AB
W8UC9 (+K9FV,N8s AKC,BSH,WB9QNX)	135,596	461	218	M	ABCD9E

0

Colorado

W2CRS	9,180	112	54	S	ABCDEI
KX8O	3,072	57	32	S	ABD9E
K7VNU/8	1,364	42	31	S	ABD
WA5DTK	70	14	5	S	B
N8KV (+N8BZ)	12,948	168	52	M	ABCD9EFI
W5IXS (+W5IXR)	448	19	16	L	ABCD