

Results, 38th ARRL VHF Sweepstakes

The January VHF Sweepstakes tradition continues . . .

By Edith Holsopple,* N1CZC and Mike Kaczynski,** W1OD

From shorter operations like those of WB2ALW, a New Yorker who took time out from the flu to get a few points, to the all-encompassing efforts of some of the bigger guns, VHF signals were out in force like ants at a picnic.

Grid squares were used as multipliers for the first time in the 1985 January VHF Sweepstakes, but the players and scores retained approximately the same relationships as before. WA3AXV is again the number-one single operator; ditto for W1VD in the multioperator category.

Activity was terrific! We received 880 entries from the January 18 and 19 contest. There are nearly 100 more entries than last year crammed into our file cabinets.

Like two-headed monsters, some of those who worked more than one band found themselves torn by indecision. Although some great meteor scatter and a short opening to Bermuda from the East Coast were reported on six meters, conditions were pretty much lukewarm on all the bands. Propagation didn't affect band choice much, but, of course, it is better to be where everyone else is—144 MHz. Of the 880 entries received here, 93.97% had spent some time on the 2-meter band. The 220-MHz band was definitely the less-traveled road.

Operating was rough on the West Coast. N6ENU said that he "... packed up the 4-wheel drive for two days, grabbed WA6PZL and headed for CM94, one of the most sought grid squares on the West Coast. CM94 has virtually no accessible peaks, and only a small portion is actually land. The weather was lousy with 80-mi/h winds on Saturday. No one from Los Angeles was on the air until Sunday afternoon, when the wind actually forced us off our little mound of mud. The folks were too busy picking up their roofs from their neighbors' yards to operate. The majority of our QSOs were 300 miles further away near San Francisco and Sacramento. It sure is funny what the weather can do, considering that Los Angeles was virtually line-of-sight."

Because of slight changes in the rules, this was a benchmark year, and maybe we can't compare it, score for score, with the last VHF SS; however, one can always compare number of QSOs and call sign standings. There were lots of relatively new faces on the top 10 single op list this time. King Ron, WA3AXV, led the parade again, but the neutral band conditions forced his QSO totals all across the board to slip down this year from last. In spite of more sta-

Top Ten

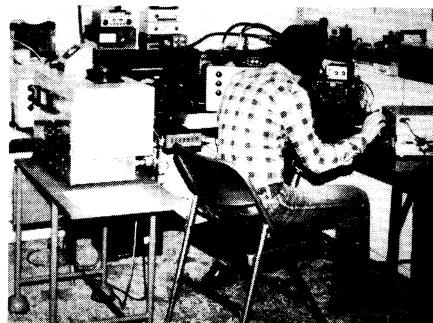
<i>Single Operator</i>	<i>Multioperator</i>
WA3AXV 235,776	W1VD 614,208
WB2WIK 179,712	N2SB 583,186
KC2PX 127,848	WA2OMY 304,152
W3HFY 115,672	N2BOW 250,632
K3HP 108,020	WB3CZG 224,256
WB2YEH 103,448	W2SZ 167,828
WA2TEO 100,116	WD8ISK 155,946
WB3JYO 97,350	W3KKN 155,700
WA3YUE 92,512	W1QK 148,092
N2BJ 90,090	VE3LNX 120,064

Division Leaders

<i>Single Op</i>	<i>Multioperator</i>
WA3AXV 235,776 Atlantic	N2SB 583,186
VE3ASO 40,500 Canadian	VE3LNX 120,064
W9OEH 73,124 Central	N9EDT 7236
W6XG 23,040 Dakota	KA0CRO 44
WB4JGG 23,450 Delta	WD4DGF 10,200
WB8BKC 61,380 Great Lakes	WB8ISK 155,946
WB2WIK 179,712 Hudson	N2BOW 250,632
W9RWH 25,488 Midwest	KF0M 43,862
W1JR 53,436 New England	W1VD 614,208
W7TYR 3864 Northwestern	K7NTW 80
W6RXQ 28,764 Pacific	NU6S 75,520
K2UOP/4 34,770 Roanoke	W4BFB 43,000
KC7QJ 11,280 Rocky Mountain	— —
WA4NJP 74,936 Southeastern	KX4R 24,072
K6PVS 13,790 Southwestern	N6ENU 21,200
WA5VJB 37,560 West Gulf	— —

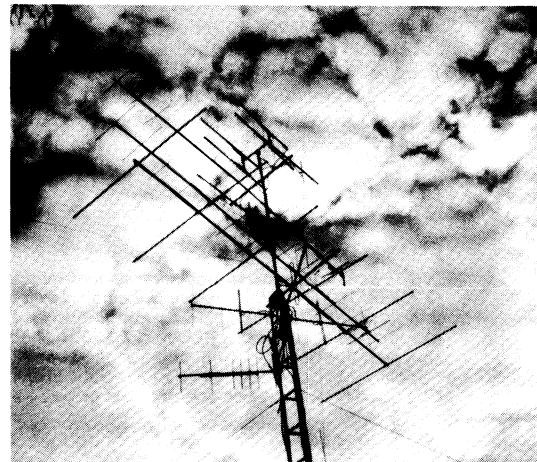
local category spot from fourth in '84. They deserve a pat on the back.

Viva la VHF! There is something exhilarating about VHFing that supersedes the run-of-the-mill contest operating. Something about being on the skyscraper edge of one of Amateur Radio's experimental frontiers and meeting some of Amateur Radio's most interesting proponents. This makes up for the bands' hard knocks that the VHF operator accepts as part of the game. The words of WB9ZAI sum it up nicely: "This was my first VHF competition as well as my first exposure to SSB VHF operation. The contest represented a microcosm of my Amateur Radio experiences: Homebrew converters and anten-



WB2WIK (FN20) was kept hopping during the SS. Band changing meant chair changing, and there was lots of exercise for Steve. He climbed into second place nationally.

This is one of the two VHF antenna towers at WB2WIK. It supports a total of 171 elements for four bands.



*Assistant Contest Manager, ARRL
**Contest Manager, ARRL

Affiliated-Club Competition

Club Name	Score	Entries	Single-Op Winner
Unlimited Category			
Mt. Airy VHF Radio Club Rochester VHF Group (NY)	2,617,828 767,060	66 83	WA3AXV K8ZES/2
Medium Category			
Delaware Valley VHF Society Suburban ARC Hampden County RA Warminster ARC South Jersey RA Potomac Area VHF Society Ramapo Mountain ARC West Jersey Radio Amateurs Drumlins ARC Six-Meter Club of Chicago Rochester ARC (MN) W6TRW ARC Mobile Sixers RC Huber Heights ARC	506,306 340,950 192,556 157,440 150,020 136,290 115,998 71,246 48,232 45,388 21,970 7604 7502 4434	17 16 43 26 20 6 5 12 13 16 59 11 14 13	K3HP WB2YEH K1FO N3DQZ N2FY W3ZZ WB2OQQ KX2W KC2GZ WD9EXD WB9VB WA2KDL W3AWA N8CCC
Local Category			
Murgas ARC S.C.O.R.E. Crystal RC Mitre-Bedford ARC Wheaton Community RA Murphy's Marauders Granite State ARA Utica ARC Potomac Valley RC Falmouth ARA	318,546 273,896 92,324 58,864 41,392 30,126 18,662 12,292 9044 3694	9 5 4 4 9 4 6 3 3 3	KB3EZ WB2WIK N2BJ W1JR K9RK K1EM AC1J WB2SZY N3AM K1AIK



The hard work of the W1QK crew made them ninth in the nation. (Clockwise from upper left) N1ABY, KF6AJ and KA1TD operated 50 MHz; W1NG kept 144 MHz on the air; W1QK operated 220 MHz; and WA1WVX kept 432 and 1296 MHz alive.

nas competing equally, through persistence and good operating, with powerful stations (1 kW+) and massive antenna arrays; old tube equipment (like mine) surfacing on the band alongside the latest solid-state and digital gear; reacquaintances with old friends for a casual QSO, and new grid squares from distant corners; and after the contest, of course, talking amongst friends about that QSO that "got away." I like it. I think I'll stay!" See you next time.

SOAPBOX

Wow, new grid squares doubled my multipliers (KA0GAD). Despite the low score, I enjoyed every minute of it (VE3IHS). I thought conditions were okay for this time of year. However, 2, 220 and 432 sounded like aurora from all the phase noise generated by the new multimode transceivers (W1JR). This was my first contest. Next project—a

cure for hoarseness (VE3MWM). Perhaps the next contest will bring random 10 GHz and 2304 contacts (WA3TXR). Murphy almost got me. One of the mast clamps on my rotator broke just before the contest, and I had to stand on an icy roof in 20° F just to fix the thing (KA1IOR) ... even the 220 transverter seems to have survived the 100 W drive I applied to it. Thank God for tubes! (WA1TFH). When searching for other stations, analog tuning (the old way) seems more effective than digital tuning (AC1J). Conditions on 432 were up and down like a yo-yo (W1RIL). The contest was enjoyable between loads of laundry, cooking, baking cookies, playing checkers with Sarah, etc. etc. (KA1MEW). The power supply for the 2-meter and 220 rigs would trip if my transmission was longer than 10 seconds ... it definitely helped keep exchanges short (N1SR). Conditions were okay for January, but windstorms just prior to the contest blew in a lot of line noise by loosening up the neighborhood insulators. Six meters in particular was very noisy (K3ZO). Next year, I need a

Single Operator Call Area Leaders—QSOs per Band

Call	50 MHz	144 MHz	220 MHz	432 MHz	1296 & up
W1JR	36	84	52	75	16
WB2WIK	210	302	75	65	18
WA3AXV	163	335	118	125	32
WA4NJP	69	116	15	44	5
WA5VJB	34	93	23	36	12
W6RXQ	32	118	9	45	12
W7TYR	8	28	9	9	5
WB8BKC	40	105	19	65	5
W9OEH	104	136	11	46	2
W0RWH	—	119	—	29	—
VE3ASO	21	167	14	19	4

Multioperator Call Area Leaders—QSOs per Band

Call	50 MHz	144 MHz	220 MHz	432 MHz	1296 & up
W1VD	368	702	111	220	21
N2SB	298	687	153	213	51
WA2OMY	206	424	144	132	29
W4FBF	84	130	—	18	—
N5BHO	—	51	3	17	—
NU6S	52	144	53	80	11
K7NTW	5	5	—	—	—
WD8ISK	110	243	26	70	2
N9EDT	28	46	18	12	—
KF0M	26	113	10	41	—
VE3LNX	81	235	32	56	10

Multiplier Leaders By Band

50 MHz	432 MHz
W1VD*	60
N2BOW*	56
N2SB*	51
W2SZ/2*	48
W4FBF*	44
WD8ISK*	42
W1NY*	41
K2GMZ	40
K1TOL*	40
144 MHz	1296 MHz
K9AKS	58
WD8ISK*	58
K9MRI	51
K2LWR	50
WB8ULC	50
W0RWH	50
KA8IFC	48
W1VD*	45
K4MSK	45
WA4MJP	45
220 MHz	
W1VD*	24
WB3CZG*	23
WA8DCB*	20
W2SZ/2*	20
VE3LNX*	18
N2SB*	18
WA2OMY*	17
WB2WIK	17

*Multioperator Station

motorized crank to do the chores! I can't work CW after my hands get numb from cranking in sub-freezing temperatures (WB3LNZ). Best 432 DX was WA4ZIA, EM-95, 541 airline statute miles. No band opening, just good equipment on both ends (K2RIW). Anyone have a better way to dupe the AA-AL and KA-KZ? It is a pain to write out the complete call now that they're so common (KE2N). What happened to old-fashioned courtesy? There were some awfully wide amplifiers on frequency. It is nice to see more activity from WPA and WNY (KC2TJ). My 220-MHz XVTR was determined to self-destruct during the contest. After 20+ years of VHF contests, I always take time to chat for a few with the usual contest regulars. Enough of low-power contest operating. Next contest, more power on all bands. My QRP phase has ended (WA2UDT). It was nice to see all the VE's this year, tnx (N2BOW). Everything was fine until my 100th contact on 2 meters. That's when the dupe sheet caught on fire, and I had to rewrite it (KA2JKI). Three watts was quite a challenge ... humbling, too (W3IFM). Noise, noise, noise, but fun, fun, fun (WA3FYJ). The high point of the contest was VP9GE on 6 meters (WB4NJD). I thought they

evacuated the EM nineties. We paid for the Sept test! (K2UVG). Roses are red, violets are blue. Sure needed a rig for 432 (KX4R). After years of trying, I've finally come up with an antenna system that has competitive performance, is easy to erect single handedly, will fit in my Mustang and can be stored in my apartment (AA4ZZ). The contest was great here in Central USA. I was surprised at the

activity. I had more QSOs and more grids than the Sept. test! I feel overall interest in VHF/UHF is on the upswing (K5YY).

FEEDBACK

The following are corrections to the 1984 January VHS SS Results in June 1984 *QST*, pp. 83-86. In the Local Category club competition, Suburban

Scores

Call, score, QSOs, multiplier, bands operated (A = 50 MHz; B = 144 MHz; C = 220 MHz; D = 432 MHz; E = 1296 MHz; F = 2.3 GHz; H = 5.7 GHz; I = 10 GHz). **Bold** denotes single-band winners.



1	K1SW	16,170- 209- 33-ABCD	WA2JW	14,756- 238- 31-AB	WB2ODH	11,184- 179- 33-B	WA2AAZ (KA2F, KA2s JOV, UXM, KD2CO, KX2T, WA2SOK, oprs.)	
	K1SDN	5544- 142- 18-ABD	WA2FGK (K2LNS, opr.)	5544- 152- 23-D	WA2M3A	10,304- 203- 23-ABD	3	
	WA1UZX	5032- 148- 17-BC	WA2UDT	10,212- 187- 23-ABCD	WA2TMC	10,292- 165- 31-ABD	Delaware	
	N1PF	3804- 100- 17-ABD	WB2HVF	6150- 105- 15-B	WA2YTM	10,230- 143- 33-ABCD	KB3QJM 12,702- 206- 29-ABD	
	W1JP	3146- 121- 13-B	WB2DQG	5098- 144- 13-BD	WB2EF	10,126- 211- 24-AB	K4CHE/3 3486- 63- 21-ABCD	
	KA1CRX	2912- 112- 13-B	WB2ONA	4140- 84- 15-BCDE	KA2OQZ	9720- 162- 30-B	KA3IJO 2520- 90- 14-B	
	WB1APD	2400- 100- 12-B	WB1HAB	2106- 117- 9-B	K2MP	9632- 166- 28-ABD	WB3DPD 2424- 101- 12-B	
	WB1BHS	2106- 100- 12-B	WB2EJQ	3864- 138- 14-B	KA2DOA	8316- 198- 17-AB	WB3ILM 2278- 67- 17-AB	
	WB1EHS	1958- 89- 18-B	WA2ALM	3810- 127- 15-B	WB2MKN	8262- 144- 27-ABD	K3SX 820- 37- 10-BD	
	WA3ECC	1704- 71- 12-AB	KA2KWS	3312- 129- 12-BD	WB2SZY	8062- 139- 29-B	Eastern Pennsylvania	
	KA1KRJ	1572- 131- 6-B	WB2BPY	3080- 110- 14-B	WB2CBU	6204- 141- 22-B	WA3AXV 235,776- 791- 96-ABCD	
	KA1MEW	1400- 100- 7-B	N2BOW (N2CE1, N2EOC, WB2UL, oprs.)	250,632- 860- 116-ABCDEI	KA1YE	6120- 153- 20-B	WB3ESS 57,000- 281- 50-BCDE	
	W1CJK	990- 47- 9-BD	N2WM (+ N2e CJS, ERH, EWV, WA3WUD)	13,770- 202- 29-ABD	WB2WN	6120- 150- 20-ABD	N3DQZ 68,306- 527- 49-ABCD	
	WB1CKC	900- 50- 9-B	K2BJG (+ WB2RFB)	41,830- 383- 47-ABCD	WA2ALW	5396- 142- 19-AB	AK3O 67,774- 487- 47-ABCD	
	K1JDL	800- 80- 5-B	WA2VUN (+ W2HWG)	31,868- 232- 42-ABCD	WB2SN1	5202- 150- 17-ABD	WB3BPI 56,816- 399- 67-ABCD	
	KA1BXB	23,392- 246- 43-ABCD	WB1GLZ	648- 54- 6-AB	K2KWK	5112- 142- 18-B	WA3AJ 55,796- 598- 59-ABCD	
	W1XX	16,440- 246- 30-BD	AC1T	630- 45- 7-B	N2BNE	4160- 160- 13-AB	WA3NUF 54,684- 440- 42-ABCD	
	WB1BXS	12,264- 292- 21-B	KB1MU	624- 78- 4-B	N2TW	3986- 124- 16-AB	K3IUV 53,276- 456- 38-ABCD	
	K1GX	12,240- 192- 30-ABD	N1SR	600- 49- 6-ABC	K3QM (+ KA3ETI, WB2INB, WB2HCH)	3980- 99- 20-B	WA3JUF 50,616- 343- 38-BCDEF	
	AB1U	8950- 157- 25-BCD	W1RED	570- 57- 5-B	WB2WF	3916- 89- 22-AB	N3CX 47,282- 234- 47-BCDEF	
	W1FAJ	8528- 134- 26-ABCD	W1ALL	376- 47- 4-B	WB2PSD (+ KC2GE)	19,140- 302- 29-ABD	WA3NWL 47,280- 400- 40-ABCD	
	NI1CPG	7410- 195- 19-B	N1CRO	348- 58- 3-B	WB2GJZ	3750- 125- 15-AB	WB3LNZ 26,770- 338- 35-ABD	
	WA1CVN	5612- 122- 23-AB	W1KK	340- 34- 5-B	K2GMZ	3744- 126- 13-ABCD	K3L0M 41,340- 475- 39-ABC	
	WA1ZNT	2072- 74- 14-AB	K1MAL	308- 77- 2-B	WB2YJH	3456- 144- 12-AB	KB3HE 35,498- 391- 36-ABCD	
	WA1HYH	1820- 91- 10-B	WB1DLH	284- 71- 2-B	WB2FNF	3366- 150- 11-ABC	WA3AJ 55,796- 529- 37-ABCD	
	W1CNU	1116- 62- 9-B	KB1Y	282- 47- 3-B	WB2XG	2912- 112- 13-B	WA3NUF 32,276- 448- 32-ABCD	
	WA1GTP	480- 30- 8-AB	KA1DNX	272- 34- 4-B	KA2KDA	2856- 116- 12-BC	K3ACR 33,418- 390- 31-ABCD	
	K1IN	210- 35- 3-B	K1UB8	228- 38- 3-B	K2QZ	2856- 34- 21-CD	W3IT 31,726- 416- 29-ABCD	
	K1WVX	184- 46- 2-B	WA1EYF	208- 52- 2-B	WB2DCU	2800- 100- 14-AB	WB3LNZ 21,438- 297- 27-ABCD	
	N1JW	72- 18- 2-B	WB1WX	200- 23- 4-C	WA2EKK	2790- 78- 15-ABCD	K3L0M 26,160- 319- 30-ABCD	
	WA3VIL	4- 2- 1-B	KA1CAX	186- 31- 3-B	WA2EKT	2784- 161- 8-BD	WB3BPI 17,172- 280- 27-BCD	
	W1WEF/M	2- 1- 1-B	W1DGJ	152- 38- 2-B	K2J1T	2206- 82- 14-B	WA3CUX 21,700- 204- 31-ABCD	
	W1VD (+ K1JX, KA1GD, WA1STO)	KA1COL	152- 38- 2-B	WA2GTJ	29,214- 437- 27-ABCD	WA3HBS 21,438- 297- 27-ABCD		
	61,208-1422-168-ABCDEF	KA1KPH	148- 37- 2-B	WB2PAU	28,544- 386- 32-ABD	K3A3CR 21,420- 306- 35-B		
	W1QK (+ KA1s ECL, TD, KF6AJ, N1ABY, W1NG, WA1WVX)	WB1VW	148- 37- 2-B	K2TXB	27,864- 387- 36-B	WA3YON 20,800- 157- 50-ABCD		
	148,092- 681- 86-ABCD	WA1VHU	148- 37- 2-B	KX2W	25,200- 350- 36-AB	N3ADC 20,522- 284- 31-ABD		
	WB1GLX	120- 12- 5-B	K2SQS	23,622- 381- 31-AB	K2BCL	1890- 135- 7-B	K3DM3 19,532- 315- 24-ABCD	
	K1JG	68- 22- 2-B	WB2VLA	23,312- 316- 31-ABC	K52Z	1894- 113- 7-BD	WA3PUL 18,436- 315- 22-ABCD	
	KA1JDY	80- 20- 2-B	N2AHN	21,728- 324- 28-BD	KB2NU	1880- 140- 6-B	WB3PEP 17,172- 280- 27-BCD	
	WA1LES	30- 15- 1-B	K1TQ	20,198- 284- 27-ABCD	K2J2K	1886- 109- 7-BD	WA3EJ 13,908- 261- 19-BCD	
	W1NY (AC1T, K1DFC, KA1s APR, KPH, MCA, W1KK, WA1UQC, WB1CAC, oprs.)	WB1EY (K1AT, K1DFC, KA1s APR, N2FU, WA1s OnB, PBU, VFJ)	WA2RWA	18,630- 304- 27-ABCD	WB2HJV	2016- 144- 7-B	K3EZ 13,856- 316- 16-ABCD	
	WB1GXT	14,208- 148- 32-ABCD	WB1EY (K1AT, K1DFC, KA1s APR, N2FU, WA1s OnB, PBU, VFJ)	WA2ONK	17,342- 299- 29-B	WB2CJ	2002- 91- 11-AB	WA3YON 20,800- 157- 50-ABCD
	K1SRZ	8760- 165- 20-ABCD	WB1ZALQ	10,380- 259- 20-AB	K2C2W	1998- 68- 11-AB	K3DM3 19,532- 315- 24-ABCD	
	WB1FKF	7896- 105- 21-BCDE	W2BV	9200- 200- 23-AB	WA2CWD	1998- 68- 8-ABCD	WA3PUL 18,436- 315- 22-ABCD	
	A1JE	6468- 127- 21-BD	K2EVW	8400- 162- 15-BCDE	WB2DSR	1882- 88- 8-ABCD	WB3PEP 17,172- 280- 27-BCD	
	KB1KM	5814- 126- 19-ABD	WB2BLV	6480- 180- 16-B	WA2ENW	1806- 64- 11-A	KA3FBP 13,908- 261- 19-BCD	
	K1KC	5160- 100- 20-ABCD	WB2EK	5658- 217- 11-BCD	WB2GNR (N2TW, opr.)	1400- 100- 100- 100- 100- 8-B	WA3CUX 21,700- 204- 31-ABCD	
	KA1DHO	4826- 101- 19-ABCD	K1BE (+ KA1DXN, WA1PUX)	AB2Y	4830- 131- 15-BD	K2C2X	1372- 94- 7-BC	K3DM3 13,772- 282- 22-BCD
	W1FM	4788- 101- 19-ABD	WB1ETS (+ N1AEH)	WB2EA	3750- 125- 15-B	WB2ODR	1372- 94- 7-BC	WB3DNI 12,200- 236- 20-BCD
	W1TR	3390- 113- 15-AB	2808- 108- 13-B	N2CLX	3432- 134- 13-AB	WA2UD	1358- 97- 7-B	WB3BZ 12,110- 132- 35-ABCD
	K1DAT	2340- 90- 13-A	KD2Q	2620- 131- 10-B	K2AY	1296- 100- 6-BD	K3M3K 13,856- 245- 16-ABCD	
	K1AIK	1898- 73- 13-B	WB2PV	2736- 79- 12-ABC	WB2SNF	1344- 90- 8-BD	WB3IGR 13,916- 293- 13-BC	
	N1CPK	1400- 52- 10-ABD	K2EVN	8400- 162- 15-BCDE	WA2R	1296- 100- 6-BD	WA3YDZ 1940- 180- 20-BCD	
	W1FJ	1392- 58- 12-B	WB2BLV	6480- 180- 16-B	KC2BS	1240- 82- 10-AB	K3GAS 9150- 221- 15-ABCD	
	KA1IOR	1210- 61- 10-B	WB2EK	5658- 217- 11-BCD	WB2DHV	1210- 121- 5-B	K3MT3 7808- 244- 16-ABCD	
	W1AX	1056- 48- 11-B	K2EFG	2400- 120- 10-B	K2BXI	1200- 100- 6-B	K3HIN 7350- 245- 15-AB	
	W1JOT	1022- 49- 7-BDE	WA2RWA	1854- 103- 9-B	WA2SOR	1200- 100- 6-B	N3EBV 11,858- 201- 29-A	
	K1CHY	624- 38- 8-ABC	WB2FNU	896- 56- 8-B	N2COJ	1144- 52- 11-B	WB3IGR 11,172- 266- 21-B	
	K1VZI	612- 35- 6-AC	WA2WJL	890- 89- 5-B	N2EYL	1050- 75- 7-B	KU3A 11,124- 224- 28-ABCD	
	K5MA	576- 32- 9-B	N2EWV	892- 173- 2-B	W2PHT	1044- 87- 6-B	WA3CUE 10,920- 227- 21-ABCD	
	WA1YFZ	378- 27- 7-B	K2G2H	2652- 78- 17-B	N2EVG	1000- 100- 5-B	K3NHX 10,710- 244- 17-ABCD	
	N1CKO	16- 8- 1-B	WB2WF	2006- 59- 17-B	K2F2T	1044- 87- 6-B	K3XMM 9536- 245- 16-ABCD	
	WA1MZC (+ K1KEC, KV1E, KV1J, N1BRM)	WB2RZ	NB2R	1820- 70- 13-B	WB2DF	1240- 82- 10-AB	WA3YDZ 11,172- 266- 21-B	
	24,800- 259- 14-ABCD	WB2WX	1710- 49- 15-ABD	K2A2FO	100- 100- 2-B	WB2CXB	890- 89- 5-B	
	W1XM (KA9GZ, N1CPK, W1XG, oprs.)	WB2TIF	1440- 44- 15-BD	KM2C	384- 96- 2-B	WA3EJ 11,172- 266- 21-B		
	12,366- 139- 27-ABCD	WB2NEC	996- 83- 6-B	K2KMO	384- 96- 2-B	K2IEL 876- 73- 6-B		
	K1DZL	360- 30- 6-B	WB2KCE	756- 63- 6-B	K2POD	856- 107- 4-B	K2EJB 9724- 180- 14-BCD	
	K1DX	20- 5- 2-B	N2C2R	742- 53- 7-B	N2FHH	792- 99- 4-B	WA3CUE 10,920- 227- 21-ABCD	
	WB2ZS (KA1DZV, K2TR, KA2JU, K2AVJ,	WB2RJH	170- 49- 15-ABD	K2ADG	336- 42- 2-C	K2UDH	784- 49- 8-AB	K3EJB 6766- 199- 17-AB
	N1BRM)	NFB2, WB2RQ, WA2AQ, WA2SPL, WB2KMY, oprs.)	WB2RJH	232- 58- 2-B	N2ADX	736- 92- 4-B	WA3VVG 5888- 151- 16-BCD	
	WB2RJH	167,628- 582- 122-ABCD	WB2RJH	164- 41- 2-B	N2AWC	728- 91- 4-B	N3AAJ (N3DCR, opr.)	5694- 196- 13-BC
	KA2AMO (+ KA2Cs CCH, NBA)	WB2RJH	16,056- 217- 37-ABD	WB2RJH	140- 35- 2-B	WB2UTX	660- 33- 10-AB	WB3EMG 5428- 95- 23-ABCD
	AC1J	5040- 105- 24-B	WB2RJH	16,056- 217- 37-ABD	WB2ZJY	632- 79- 4-B	K3LYB 5270- 155- 17-A	
	W1JSM	5922- 134- 21-BD	WB2RJH	16,056- 217- 37-ABD	WA2FGW	560- 56- 5-B	WB2ZJH 5216- 163- 16-B	
	W1QWJ	3126- 92- 17-AB	WB2RJH	16,056- 217- 37-ABD	WB2UTM	486- 27- 9-B	K3ZMA 5184- 144- 12-ABCD	
	W1ENE	1452- 66- 11-B	WB2RJH	16,056- 217- 37-ABD	WB2Z	486- 27- 9-B	K3EEO 4914- 72- 27-ABCD	
	KB1QV	936- 52- 9-B	WB2RJH	16,056- 217- 37-ABD	WB2Z	486- 27- 9-B	WA3EJ 5182- 147- 13-ABC	
	KA1XD	510- 51- 5-B	WB2RJH	16,056- 217- 37-ABD	WB2Z	486- 27- 9-B	K3EBO 4914- 72- 27-ABCD	
	WB1ADF	300- 25- 6-B	WB2RJH	16,056- 217- 37-ABD	WB2Z	486- 27- 9-B	WA3CUE 5182- 147- 13-BCD	
	KA1JDJ	20- 5- 2-B	WB2RJH	16,056- 217- 37-ABD	WB2Z	486- 27- 9-B	WB2Z	486- 27- 9-B
	Rhode Island		WB2ALW	984- 37- 12-ABCD	WB2Z	486- 27- 9-B	WB2Z	486- 27- 9-B
	K9SB/1	2492- 89- 14-B	Northern New Jersey		WB2Z	486- 27- 9-B	WB2Z	486- 27- 9-B
	K1DS	280- 26- 5-ABC	WB2WIK	179,712- 670-104-ABCD	WB2Z	486- 27- 9-B	WB2Z	486- 27- 9-B
	Vermont		KC2PX	127,848- 569- 84-ABCD	WB2Z	486- 27- 9-B	WB2Z	486- 27- 9-B
	W1AIM	9288- 94- 43-ABCD	KT2B	35,904- 816- 44-ABCD	WB2Z	486- 27- 9-B	WB2Z	486- 27- 9-B
	WA1ZQJ	3040- 76- 20-B	WB2QOQ	32,042- 433- 37-B	WB2Z	486- 27- 9-B	WB2Z	486- 27- 9-B
	Western Massachusetts		KC2TJ	24,080- 282- 40-ABD	WB2Z	486- 27- 9-B	WB2Z	486- 27- 9-B
	W1RIL	18,680- 244- 30-BDE	WB2RS	18,170- 355- 27-B	WB2Z	486- 27- 9-B	WB2Z	486- 27- 9-B
	WA1MBA	19,158- 249- 31-BDE	N2AZA	18,360- 255- 36-AB	WB2Z	486- 27- 9-B	WB2Z	486- 27- 9-B
			N2BMM	15,336- 204- 36-ABE	WB2Z	486- 27- 9-B	WB2Z	486- 27- 9-B
	Western Massachusetts		WB2WIK	179,712- 670-104-ABCD	WB2Z	486- 27- 9-B	WB2Z	486- 27- 9-B
	W1AIM	9288- 94- 43-ABCD	KC2PX	127,848- 569- 84-ABCD	WB2Z	486- 27- 9-B	WB2Z	486- 27- 9-B
	WA1ZQJ	3040- 76- 20-B	KT2B	35,904- 816- 44-ABCD	WB2Z	486- 27- 9-B	WB2Z	486- 27- 9-B
	Western Massachusetts		WB2QOQ	32,042- 433- 37-B	WB2Z	486- 27- 9-B	WB2Z	486- 27- 9-B
	W1RIL	18,680- 244- 30-BDE	KC2TJ	24,080- 282- 40-ABD	WB2Z	486- 27- 9-B	WB2Z	486- 27- 9-B
	WA1MBA	19,158- 249- 31-BDE	WB2RS	18,170- 355- 27-B	WB2Z	486- 27- 9-B	WB2Z	486- 27- 9-B
			N2BMM	15,336- 204- 36-ABE	WB2Z	486- 27- 9-B	WB2Z	486- 27- 9-B

WA3ADI	1008- 62- 6-AC	N4IOX (+ KA4gs API, ZFY, KB4s GEJ, GNP, KI4OE, NU4JO)	K6IBY	2560- 55- 16-BCD	W6WYH	80- 20- 2-B	Kansas
KB3QI	864- 46- 9-AB		K6PFW	1632- 54- 12-BD	W6XB	72- 18- 2-B	N8LL
KA3ILE	702- 39- 9-A		K6CCR	90- 15- 3-B	KABIAL	60- 15- 2-B	WBRT
WB2EFL	686- 49- 7-AB		K7KAJ	42- 7- 3-B	KABOKC	32- 16- 1-B	K9VUA
KD6KD	624- 68- 4-BC				WB6ISK (KC8RD, N8s ASZ, BPB, ECH, WBAGOS oprs.)	155,946- 451-141-ABCD	KFBM (+ KB6DW, WP1LZ, WA9VJF)
KB3GL	600- 100- 3-B				K8CQA (+ WB8s JAY, TEI)	6970- 82- 41-ABD	WB6DRL (+ WA8TJK)
K3KMN	584- 49- 4-BC						28,490- 147- 77-ABDE
K3QXC	548- 137- 2-B						
W3AJF	452- 75- 2-BC						
KA2FQO	436- 109- 2-B						
W3HMU	430- 32- 5-ABC						
K3DLS	408- 51- 2-C						
N3CJH	408- 45- 4-BD						
W3OFI	404- 101- 2-B						
KA3GJ7	352- 88- 2-B						
W3MXN	320- 80- 2-B						
WA3NAY	336- 42- 2-C						
N3BPJ	286- 72- 2-B						
N3DKD	286- 72- 2-B						
WA3TQJ	296- 74- 2-B						
KC3GQ	160- 40- 2-B						
W3KOC	160- 40- 2-B						
K3RTU	120- 30- 2-AB						
WA3NAO	120- 20- 3-AB						
W3ESH	104- 26- 2-B						
WA3HFJ	68- 17- 2-AB						
K3VEQ	64- 16- 2-B						
K3GFF	60- 8- 3-BC						
KN3W	52- 13- 2-B						
KB3ZY	36- 18- 1-B						
AE3J	36- 6- 3-AB						
WA3KRS	22- 11- 1-A						
N3CWE	18- 9- 1-B						
WA3JOM	14- 7- 1-A						
WA3INF	10- 5- 1-A						
WA20MY (+ AA2Z, net)							
304,152- 935-114-ABCDEFI							
WB3CZG (+ K2JIO, K3MKZ, KS3Y, N2HR, N3AVC, WA3NVS, WB3s CAI, FAA, FET, FY2, IW2)							
224,256- 711-128-ABCDE							
W3KKN (+ K3KMN)	155,700- 785- 75-ABCDE						
KA3HTY (+ KA2TB1)							
80,242- 617- 53-ABC							
W3LP (W3UJZ, WA3CUO, WA3JXW, oprs.)							
27,864- 319- 36-ABD							
KQ3R (+ KF3Y, N3DPN)							
26,362- 205- 49-ABCD							
W3CCX (K3DLS, WA3FOF, oprs.)							
26,028- 406- 27-ABC							
K3QO (+ KA3NDF)	14,782- 303- 19-ABC						
WB3IND (+ W3K3M)							
13,200- 245- 24-ABC							
W3HZU (K3GDI, N3BOU, W3SSST, oprs.)							
3996- 74- 27-AB							
WA3GOV (+ WA2RUG)	3504- 120- 12-BD						
	5						
Maryland & District of Columbia							
K3HZO	66,380- 320- 70-BCDE						
W3ZZ	45,820- 220- 58-ABC						
K3ZO	27,348- 318- 43-AB						
WA3UJE	13,992- 188- 33-ABCD						
WB2DNE	11,658- 201- 29-AB						
K3NXH	10,850- 213- 25-B						
K3AKR	8400- 124- 28-ABC						
W3XO	8112- 126- 24-ABC						
WA3EOQ	6288- 121- 24-ABC						
K3TC	5320- 133- 20-B						
N3AM	4256- 152- 14-B						
N3DOU	4216- 117- 17-BC						
K3TG	3780- 95- 14-BD						
W3IFM	2414- 71- 17-A						
W3MSN	1612- 49- 13-ABD						
W3GN	1008- 37- 12-ABD						
N3DUE	960- 60- 8-B						
K3ONW (+ WB3LJK)							
64,200- 312- 75-ABCDEFI							
K3IVNO (K3NTNM, N3CBJ, N3DCI, W1DGA, W3FG, W3IP, WA3TID, WB3EVS, WB6VGJ, oprs.)							
22,632- 251- 41-ABCD							
W3PGQA (K3FRX, K3PHM, KB3EL, K03K, N3EDJ, W3JDF, W3VRD, WA3LAW, WB3BIT, oprs.)							
9088- 142- 32-AB							
W3AUN (+ N3DUE, WA3FAE)	6512- 146- 22-B						
	5						
Arkansas							
K5YY	18,000- 119- 60-BD						
WB5JAR	1440- 36- 20-AB						
NR5A	220- 11- 10-AB						
Louisiana							
W5FYZ	1962- 49- 20-B						
WB5MAA	1152- 24- 24-B						
KC5WA	48- 8- 3-B						
KA5IXE	8- 4- 1-B						
N5BHO (+ W5EW)							
6370- 71- 35-BCD							
New Mexico							
W5FF	1520- 40- 19-AB						
W5RKS	744- 27- 12-ABD						
N5EZA	560- 29- 8-ABD						
Northern Texas							
WA5VJB	37,560- 198- 60-ABCDEFI						
KE5EP	25,286- 161- 58-ABCDE						
K5IS	2350- 35- 25-ABCD						
WB5AFY	1246- 24- 13-D						
KB5RA	1054- 31- 17-B						
WB5KYK	572- 22- 13-B						
Washington							
K5SW	21,888- 115- 72-ABCD						
K7CW	15,800- 116- 50-ABD						
W5NZS	15,052- 100- 53-ABCD						
WB5KHN	13,120- 164- 40-B						
WA5WCP	14,872- 100- 52-ABCD						
WD5AGO	8006- 88- 46-AB						
AB5T	3618- 67- 27-B						
WB5DSH	2900- 50- 29-A						
Southern Texas							
WB5RUS	5626- 85- 29-ABD						
WA5IYX	198- 11- 9-A						
Michigan							
K5SW	21,888- 115- 72-ABCD						
WB5KHC	61,380- 234- 93-ABCDE						
KU8P	42,198- 247- 77-ABD						
W7IDZ	100- 8- 5-ABCD						
K7NTW (+ WB7BDQ)							
80- 10- 4-AB							
Wyoming							
WA7KYM	1560- 41- 15-ABCD						
WB5II/7	960- 40- 12-B						
	8						
Oklahoma							
WA5RUS	21,888- 115- 72-ABCD						
WB5KHN	15,800- 116- 50-ABD						
WB5KHC	15,052- 100- 53-ABCD						
WB5WCP	13,120- 164- 40-B						
WD5AGO	8,006- 88- 46-AB						
AB5T	3,618- 67- 27-B						
WB5DSH	2,900- 50- 29-A						
AC8W	324- 61- 27-B						
Ohio							
WB8ULC	52,800- 264- 88-ABCD						
KD8IO	40,320- 185- 80-BCD						
WB8CTX	32,234- 216- 71-ABC						
KABIFC	22,176- 231- 48-B						
WB8AC	20,520- 135- 57-BD						
NBDEJ	16,420- 77- 30-B						
AC8W	324- 61- 27-B						
Wisconsin							
KD8JN	14,240- 144- 40-BCD						
WB8WV	8,840- 62- 34-DE						
KC7QJ	7,020- 102- 33-BD						
WB8T	7,632- 92- 36-ABD						
KD8GT	3,990- 86- 19-ABD						
WB8KJ	3,864- 68- 23-BCD						
WB8ZL	2,772- 63- 18-ABD						
NB8TK	4,76- 34- 7-B						
KABPJD	2- 1- 1-B						
Iowa							
WB8YWW	21,594- 143- 61-BD						
KD8AS	15,048- 98- 57-ABCD						
WB8ZKG	14,896- 133- 56-AB						
NB8KT	7,740- 90- 43-AB						
WB8RJT	6,068- 74- 41-AB						
WB8DFOY	4,698- 81- 29-B						
WB8RAP	2,652- 31- 23-D						
KB8JA	648- 16- 12-ABD						
WB8DCB (+ N8CII, WD9FSA)							
WB8RJT	41,870- 233- 79-ABCD						
KABGOA (+ N8EYO, N8EP)							
WB8RAP	1760- 55- 16-B						
Alberta							
VE7ASI	1728- 46- 16-ABCD						
British Columbia							
VE7ASI	1728- 46- 16-ABCD						
Checklogs							
KA2MOH KB4CRT N7BSN							