

Results, 1980 ARRL September VHF QSO Party

You can't tell the players without the scorecard!

By Bill Jennings,* K1WJ and Tom Frenaye,** K1KI

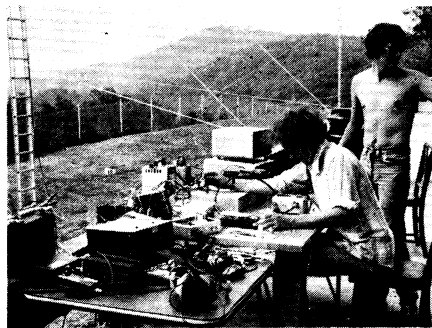
One can certainly tell who the dedicated, serious vhf contesters are. How? By simply looking at the call signs in the score listings for a vhf contest in which conditions were just "fair to middlin'."

It appears that the 1980 running of the September VHF QSO Party qualifies as one of those vhf contests where conditions were just "fair to middlin'." You can tell that just by looking at the number of entries submitted. The 1980 contest saw 372 entries received vs. the 422 logs received for the same contest in 1979 — a 12% decrease. You can tell by the number of entries that there was no monster Sunday evening tropo opening along the eastern seaboard, as there was in 1979. Therefore, one had to work a little bit, listen a little harder to work needed multipliers, call "CQ" a few more times and spend a little more time to make a fairly decent score. That's what separates the dedicated vhf contesters from the opportunist — the op who catches a big opening and runs up a big score in a hurry. We're pleased to print the scores of 372 vhf contesters in this report.

For those who did invest the time and effort to work the contest to the fullest, there were rewards to be reaped. There are three new all-time single-operator division records and three new all-time division records set by the multioperator stations. We won't list the new record holders here, but will direct you to the all-new, improved All-Time Division Leader Records Box. In that box you will find the all-time records for all three vhf contests; the June and September VHF QSO Parties and the January VHF Sweepstakes. Our answer to the old "clip and save" for the vhf contesters.

We record yet another "first" in the pages of the September VHF QSO Party history, as related by N6CA.

The first 1296-MHz Utah-to-California cw QSO was made September 12, 1980, at 2110 PDT, by N6CA/7 and K6ZMW. Distance was 345 miles over a mountainous path. This was the third N6CA/1296 expedition to Utah in the past two years. On September 13, at 1440 PDT, the first ssb QSO was made over the same path. Conditions on lower bands were very poor on both days. Equipment at N6CA/7 was 100-watts output, 70 watts at antenna with water-cooled single 7289 homebuilt cavity amplifier, driven by homebuilt



WA2FZW (front) and WB2IXP at the WA2ASM, multiop station site, overlooking scenic Route 78 in West Bridgewater, New Jersey (NNJ).

4-watt, solid-state transverter and antenna-mounted dual 645 preamp with 1.25-dB noise figure. Antenna was a single 38-element loop Yagi at 20 feet. Equipment at K6ZMW was 125 watts with dual 7289 water-cooled WB6IOM amplifier, 6-foot dish at 70 feet and 1.25-dB noise-figure N6CA preamp. Signals peaked to approximately 20 dB out of noise. Moving frequency in 5-kHz increments did not produce any noticeable effects on signal strength during fades. Originally it was thought that weather fronts virtually destroyed the Utah/California path. This was not the case. Weather on this trip was miserable at best; 30 to 40 mi/h winds in Nevada and southern Utah and relatively cold Los Angeles basin weather for good vhf tropo. This did not keep us from a good 20-minute contact on cw and ssb on Saturday. In spite of adding guy ropes to the tent for the high winds, the loop Yagi stayed on target, $\pm 2^\circ$. This antenna has heard Arizona at 403 miles and worked it at 338 miles.

Steve Katz, WB2WIK and the K2XR crew found some interesting results with different antennas.

We installed some pretty serious contest antennas. The 70-foot crank-up tower with two 6-meter beams really worked. We used both antennas in tandem with a phase-adjustable splitter to enhance meteor-scatter signals and often noticed a 10- to 20-dB enhancement over just the top 6-element antenna. This array was the brainchild of Dave, K2XR, who really isn't a vhf'er, but is an avid contesters and will try anything once.

Having two beams at different locations (heightwise) on both 432 and 1296 MHz gave us some insight regarding the age-old height vs. feedline-loss controversy. As you might suspect, the higher antenna for each band brought in the local signals a bit stronger. However, the lower antenna for each band seemed to do every bit as well on the weak, long-haul (200 to 500 miles) signals. In the future, we'll probably concentrate on larger arrays, closer to the ground, fed with b-i-g feedlines to build up lots of gain and keep feedline losses to nearly zero.

Division Leaders

Single Operator	Division	Multioperator
WA2DPU	Atlantic	K3MTK*
GW3NJY/W9	Central	K9MRI
K0VXM*	Dakota	—
WB4JGG	Delta	W9IP/5
W7EKI/8	Great Lakes	W8VP*
WA2YWP	Hudson	K2XR*
WB0ZKG	Midwest	WA0NOK
WA1MAO	New England	W2SZ/1
K7KOT	Northwestern	—
K6KLY	Pacific	WB6NMV
N4CD*	Roanoke	K3LNZ/8
WB0IKJ	Rocky Mountain	AA0L
WA4NJP*	Southeastern	W4CUE
W6PFE	Southwestern	AE6E
WA5VJB	West Gulf	WB5KTC
VE3CRU	Canadian	VE3AEA/3
C6ADV	DX	XE2XW

*Indicates new division record

Call Area Leaders

	50 MHz	144 MHz	220 MHz	432 MHz
WA1MAO	237/27	420/22	52/16	89/20
W2SZ/1*	358/29	621/23	95/19	115/23
WA2DPU	157/20	215/17	42/13	77/17
K2XR*	382/31	352/23	112/20	112/19
K3SXA	80/17	239/20	42/13	53/16
K3MTK*	272/22	353/23	81/19	58/18
N4CD	70/17	203/23	16/9	47/15
WA4WZQ*	102/16	201/13	4/2	18/6
WA5VJB	41/3	93/3	24/1	20/1
W9IP/5*	96/27	259/27	18/11	48/18
K6KLY	28/10	110/9	22/4	13/4
AE6E*	43/16	413/12	67/5	33/3
K7KOT	44/5	53/4	15/3	11/3
W6SFH/7*	—	11/4	—	4/3
WA2FGK/8	23/10	240/24	6/5	7/6
W8VP*	184/28	278/25	28/12	55/23
GW3NJY/W9	64/11	174/15	—	42/10
K9MRI*	121/19	298/22	—	38/10
WB0ZKG	63/16	84/12	—	—
WA0NOK*	30/8	71/14	8/2	—
VE3CRU	28/9	96/12	12/5	30/10
VE3AEA*	56/13	139/16	3/2	20/6

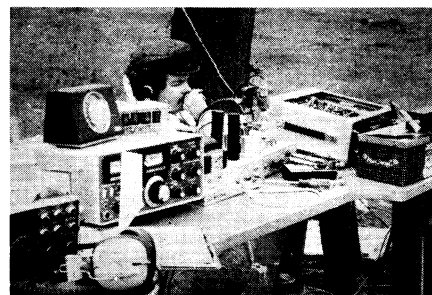
*Multioperator

*Communications Assistant, ARRL

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All-Time Division Records

	Single-Operator			Multioperator		
	Call	Score	Year	Call	Score	Year
Atlantic	Jan. WA3AXV	77,064	80	W3KKN	50,112	80
	June WA2DPU	43,351	78	W3CCX/3	215,750	79
	Sept. WA2DPU	45,360	79	K3MTK	74,046	80
Central	Jan. K9RO	30,080	80	K9HMB	45,312	78
	June W9IP	38,304	80	W0OHU/9	60,639	80
	Sept. GW3NJY/W9	35,310	79	W9IP	84,739	79
Dakota	Jan. WA0CSL	8190	76	K0VXM	7830	79
	June K0VXM	29,127	80	W0OHU/0	60,164	80
	Sept. K0VXM	3190	80	K0SE	10,492	79
Delta	Jan. WB4JGG	16,884	80	WB4HEL/4	8880	73
	June WB4JGG	36,936	80	W4BFB/4	74,404	78
	Sept. WB4JGG	28,424	79	WB4LHD/5	58,050	79
Great Lakes	Jan. K8LEE	41,080	76	K8III	80,984	79
	June WA8TTS	38,064	79	WA8ONQ	111,111	80
	Sept. WA8TTS	33,495	79	W8VP	55,264	80
Hudson	Jan. WB2WIK	63,070	80	K2OWR	65,562	76
	June WB2WIK	49,876	79	K2XR	186,538	80
	Sept. WB2WIK	54,202	79	K2XR	142,006	80
Midwest	Jan. K9ECV/0	12,690	68	K0VUY	14,196	76
	June WB0TEM	30,304	80	W0OHU	68,796	79
	Sept. N0IS	24,119	79	K0TLM	7470	79
New England	Jan. WA1MAO	46,134	80	WA1RWU	70,400	80
	June N6NB/1	86,254	80	W1FC	250,194	80
	Sept. N6NB/1	102,795	79	W2SZ/1	175,835	79
Northwestern	Jan. WA7KYZ	10,296	79	K7ND	9690	79
	June K7GWE	20,515	74	W7LYE/7	35,776	77
	Sept. WA6JUD/7	4056	76	WA7NAN	8759	75
Pacific	Jan. WA6JUD/6	23,868	76	WA6BMV	24,814	77
	June N6NB	69,184	77	WA6JUD/6	81,213	76
	Sept. WA6JUD/6	24,640	77	WB6KBZ/6	31,995	78
Roanoke	Jan. K3ICH/4	23,744	80	W4BFB/4	27,392	80
	June K4WO	49,757	79	W4BFB	57,013	79
	Sept. N4CD	25,536	80	W4BFB	190,210	79
Rocky Mountain	Jan. N6NB/7	6120	80	WA0PHZ/0	8062	68
	June WA0TVZ	22,935	77	WB5AXC/5	23,424	76
	Sept. W0EVZ	546	64	N0KV	2970	79
Southeastern	Jan. W4GDS	26,400	73	W4VO	18,966	78
	June WB4OSN	55,380	80	WA4OYH	85,500	80
	Sept. WA4NJP	11,220	80	W4VO	24,426	79
Southwestern	Jan. N6NB	25,880	79	W6FNE/6	20,352	63
	June K6YNB	60,342	76	W6AMT	105,080	76
	Sept. K6YNB/6	34,013	76	K6MEP	18,960	79
West Gulf	Jan. K5CM	14,100	78	K5STI	12,804	59
	June WA5HMK	34,151	77	K5LZO	92,106	80
	Sept. WD5FZM	6020	79	K5CM	18,630	78
Canadian	Jan. VE1ASJ	21,156	79	VE1DXA	13,266	79
	June VE1ASJ	26,277	80	VE3ONT	82,188	74
	Sept. VE3ASO	18,816	73	VE3ONT	43,413	74
DX	Jan. —	—	—	—	—	—
	June W2BN/C6	18,700	77	VP5AA	29,526	80
	Sept. JA1RJU	8	79	K4GFG/C6	124	78



K1DS/1, operating out of Rhode Island, caught his multiop partner, K1PAM, pondering his fate on 6 meters.

eastern Georgia. Very dry and noisy on 6 and 2 with some good activity on 220 (WA4NJP). For the first time we made it through an entire contest without the uhf rigs going up in smoke. High point of the contest was working N5DL simultaneously on 2-meter ssb and 432 cw and hearing our 432 signal come back loud and clear on N5DL's ssb (W8VP). What a weekend; I think Bob and I worked harder this time than we have all year and then turned in our lowest score to date (KD0R). I would like to suggest a change in the rules for those of us in the "boondocks," which would allow the use of .52 simplex on a full-time basis during the contest. I can understand the restriction in metropolitan areas, but here in Bismark, .52 is used so rarely that use during an entire contest period would cause no hardship for anyone. Got my 220 gear working and made what I believe is the first 220 MHz contest QSO in the state of North Dakota. It is possible that this was the first ever 2-way, 220-MHz QSO ever in the state (KC0W). Frustration is hearing stations on 432 that would be new multipliers for me that are transmitting 5 kHz outside my VXO range. Kindly tune. Thank you (N4CD). Poor conditions on 6 here — mostly groundwave and scatter. Most of the operators weren't fast enough to work the scatter — too bad! (AA9D). While we were running a meteor sked with W0VB (unsuccessful), K0VXM (also in South Dakota) broke in on 2 meters. We worked 'VXM on 2 and 432 with very strong signals for the 750-mile path (W9IP/5). The toughest three points I've ever made in a contest . . . First cw/ssb QSOs: Utah to California on 1296 MHz! (N6CA/7). We need a 432 calling frequency (K7ZOK). Worked a W6 the day before the contest! (VE1ASJ). Local activity very low on all bands. If I didn't have 2 meters, it wouldn't be worth it (VE7ASJ). At XE2XW it was like we had left our 50-MHz antenna at home . . . worse than if we'd been hit by an electrical blackout. Our score deserves honorable mention and no snickers. The only reason for filing a report is that we put forth some effort to make an XE available on 50 MHz and want to let those who need Mexico know that we're still plugging (XE2XW/W5XW). I know that the score is very low but I felt that the work involved plus the uniqueness of 10-GHz ssb deserves acknowledgement. KA1GT and I spent five hours trying to find a suitable site. We made a 15 dB over S9 (30 to 35 dB above the noise) QSO over a 7-1/2-mile path (WA1VUW). Propagation? What's propagation? (WA1MAG). Wow! What a contest! The conditions and activity on 6 and 2 meters were so good that my XYL had to come into the shack several times to wake me up (WA2CWA). If you wish to encourage operation on the 220 MHz band, please remove that restrictive rule . . . Until you have the level of activity on 220 that you have on 2 meters, you are not helping the cause of higher band utilization. We all do not have ssb/cw rigs on 220. Give us fm fellows a chance (K2JF). Don't forget the East Coast 70-cm net called on Wednesdays at 9 P.M. EST and EDST on 432.090 MHz (W4ATC/W44MBK/ K4CAW).

FEEDBACK

Corrections to the 1979 September VHF QSO Party. Kindly refer to pages 99 to 104 of December 1979 QST.

In the multiplier box on page 102, that's K2LWR with 37 multipliers on 432, not K2OWR. Ditto on the comment in the text on page 101.

WB5KTC's corrected log sheets show a linescore of 1550 - 139 - 10 - ABD to move Bonnie into fourth place in Northern Texas.

In the East Bay Section, WB6NMV, shown as the single operator section leader, was in reality a multioperator station with WA6VPH as the second op. This change moves N6DN/6 into the top single-operator slot in East Bay and makes WB6NMV the Pacific Division multioperator leader.

There was some tropo to be found along the extreme East Coast from a cold front extending from New Hampshire through Virginia. N4CD's new record was helped by QSOs up the coast of up to 550 miles on 144 and 432 MHz. Six meters was a disappointment to most, though the persistent did outdo their 2-meter totals. The W9IP/5 group, all set for a run at the division record from Mississippi, ran into no special propagation but nevertheless did run up the total with a good deal of patience and digging signals out of the mud. Not a record, but hard work also has its rewards.

Oh yes, KH6FLD cornered the market on DX QSOs, logging 6 meter contacts with Guam, Solomon Islands, Papua New Guinea, New Hebrides and Nauru. Kinda makes up for the lack of stateside openings!

Perhaps the October and November

fireworks on six meters will last until the January VHF SS. No way to know unless you get on a check it out — January 17 and 18!

SOAPBOX

Had the antenna and coax ready for 220, but no rig . . . next time (K9MRI). Used homebrew triplers on 432 through 1296, but power output was at a minimum. Working on amplifiers for those bands now (WA2ANZ). Some good groundwave and coastal tropo, but nothing unusual (WA2SLY). This was the first vhf contest for the Birmingham ARC . . . looks like we're hooked! (W4CUE/W4PVI). After 10 years of active vhf contesting, I had to be absent from the fun for three years while living in an apartment. Now that I'm a homeowner again, who will cut the grass and fix the leaks in the roof while I'm listening for the rare ones? (W2CRS). Sure missed N6NB. Had looked forward to working him from Utah or Nevada (K6LMN). [You must have missed the opening, Roger. Wayne was on from Chicago. See the Illinois listings — Ed.] A very good contest here in north-

Scores are listed in order, single-operator stations first within each section. From left to right: call, score, number of QSOs, number of multipliers, bands operated (A-50 MHz, B-144 MHz, C-220 MHz, D-430 MHz, E-1215 MHz, F-2.3 GHz, G-3.4 GHz, H-5.7 GHz, I-10 GHz).

U.S.A.

1

Connecticut

W1MAO 79,985-800- 85-ABCD
K1PXE 30,015-296- 69-ABCD
W1UQC 20,313-291- 61-ABCD
K1FO 18,240-208- 57-ABCD
K1BXB 7,881-201- 37-ABD
K1EM 6,574-145- 38-ABD
W1ZNT 5,664-177- 32-AB
W1FAJ 4,699-96- 37-ABCD
W1GTP 2,760-92- 30-AB
W1ICVN 1,794-67- 26-ABC
W1WHL 754-58- 13-A
W1XX 342-184- 18-B
ABU 240-30- 8-B
W1VUW/1 3- 1- 1-
WB1FVS(+KA4L,KA1S BRD CLT
DZV GD) 60,680-735- 74-ABCD
W1QK(+W1PV,WA1S KOX FMA
WXV,WB1S EZL HJR)
39,990-552- 62-ABCD

Eastern Massachusetts

K1FWF 19,650-334- 50-ABCD
W1QXX 16,470-225- 61-ABCD
WB1FX 10,850-178- 50-ABCD
K1DAT 8,512-266- 32-AB
W1AR 7,955-102- 37-CDEI
N1AIS 3,212-184- 18-B
WB1FVY 2,176-136- 16-AB
W1AIRC 1,394-77- 17-AC
N1AFQ 663-51- 13-AB
W1AY 3440-172- 20-B
W1XW(K1KEK,W1XG,WA4TTG
opr) 42,196-421- 77-ABCD
W1AYS(+AJ1E)
11,234-268- 41-ABD
W1MAAI(+WA1S MZL NLS
WB1HGA) 900-30- 30-AB

Maine

K1TOL 6,757-233- 29-A
K2QE/1(+AG2Z,WA2S PFF OQN)
6,206-214- 29-AB

New Hampshire

AF1T 18,600-251- 62-ABCD
W1TZY 16,524-277- 51-ABCD
WB1CJT 17,600-206- 61-ABCD
AC1J 8,398-198- 38-ABCD
W1EJ 6,720-101- 42-ABCD
W1ISM 2,875-119- 25-AB
W1GDR 676-52- 13-AB
W1UC 198-22- 9-B
K1TR(+K1BA,WA1S PBU QWF
UGJ) 17,199-330- 49-ABCD

Rhode Island

W1PBR 5,586-122- 38-ABCD
W1BAT 3,460-173- 20-B
W1AJR 3,360-120- 28-AB
W1ANMP/1 1,330-32- 10-AB
K1DS/1(+K1PAM)
2,050-79- 25-ABCD

Vermont

K1LPS 9,600-158- 48-ABCD
K1BF 2,451-121- 27-AB
W1AIM 2,133-72- 27-ABD
K1BXX 696-87- 8-B
W1WFF/1 32-56- 7-B
W1EZX 102-17- 6-A
W1TKZ(K1S OGF TK UR,
W1OOP,W1PQY,WB1BUM,
N2AWG,WA2OR V,opr) 45,678-593- 69-ABCD
WB1GQR(+KA1EAN,WB1BW,
WB2BEJ) 12,604-244- 46-ABCD
W1MAG(+KA1CXD,WA1S JEX
MAG NBU TBV,WB1HGH)
6,630-195- 34-AB

Western Massachusetts

W1ZAM 18,096-321- 52-ABCD
W1KK 5,580-149- 36-ABC
AC1T 5,610-180- 30-AB
W1VTA 3,920-196- 20-B
W1WLE 3,538-122- 29-AB
WB1ABF 3,336-139- 24-AB
W1IP 2,875-119- 25-AB
K1SF 1,653-50- 29-ABC
W2SZ/1(AD2J,K1DH,K2S MM
TR W1,N8AFM,W1XK,WA2S AAU
GFF,WA8USA,WB1CBH,
WB2PKO,WB9EAL)
160,286-1222-107-ABCD

2

Eastern New York

W2CRS 23,433-258- 73-ABCD
K2SHB 8,557-164- 43-ABD
WA2TIF 8,030-365- 22-B
WA2ANZ 7,024-169- 36-ABCD
W2IP 1,020-60- 17-B
WB2KHE 572-44- 13-AB
K2DNR 462-21- 11-C
K2BGU 400-33- 10-AB
WB2SHE 320-32- 10-B
K2LSA(WA2S FSP KYW,WB2S
HEM TBB,opr) 20,450-383- 50-ABCD

New York City - L.I.

WA2YWP 27,671-403- 59-ABCD
N2BFJ 12,804-278- 44-ABC
WB2JAY 8,680-245- 31-BC
K2RIW 4,002-33- 10-AB
WB3HHS/2 2,669-157- 17-B
WA2EUS 1,072-51- 16-BD
KA2DTE 1- 1- 1-B
WA2SLY(+WB2IDP)
8,064-222- 37-AB
K2OVSV(Multiop)
6,450-120- 43-ABD

Northern New Jersey

WB2QOQ 18,032-267- 56-ABCD
KB2AH 17,328-328- 48-ABD
WB2WIH 14,016-322- 48-ABCD
WA2CWA 11,438-301- 38-AB
K2BTFH 8,848-152- 44-ABCD
W2VC 6,780-105- 30-DE

WB2ONA 5,852-131- 38-ABCD
4,620-132- 35-AB
WB2CUT 4,484-236- 19-B
WB2NCF 3,960-163- 22-BD
K4BNC 2,592-96- 27-AB
N2ATZ 1,862-98- 19-B
WB2IKL 1,764-98- 18-B
WA2KKZ 180-14- 12-BD
K2XR(+K2S JWE OWR,KC2X,
WB2WIK) 142,006-1154-101-ABCD
WB2SNA(AG2N,K2S BJC LPC,KA2S
BNF EPL,N2AAZ,W2LVT,WA2S
EKM JCP JUO VZW WFF,WB2S ARS
LHG RFB UPK WLW,W2DAAI,
opr) 84,816-949- 76-ABCD
WA2ASM/2(+K2IBP,WA2S BMB
FZW GHA MOL NSD QND,WB2S
CLU IXP QYT) 2,064-419- 64-ABCD
N2BOW(+KA2S KEU KEK,
K2EF,N2BMP)
13,981-304- 41-ABC
W2VFN(K2S PM TKN,KA2S
CHK HOA,N2BNL,WB2S LVC MUA
NQV) 12,958-279- 38-BCDE
N2BMM(+KA2BTD,N2BOS)
12,751-296- 41-ABD

Southern New Jersey

WA2DPU 40,870-491- 67-ABCD
W2EIF 20,032-231- 64-ABCD
WA2KOK 12,672-221- 48-ABCD
W3CXU/2 12,166-157- 47-BCDE
K2JF 8,222-178- 39-ABC
W2HRW 6,494-191- 34-AB
K2BWR(+K2ZRP)
7,730-252- 70-ABCD
WA2DKB(+KA2S CDF HLL)
7,733-164- 37-BCD
KC2J(+KA2HHD,WA2S DGJ GTX
W1U,WB2S ANJ DQB GQT WUE,
WD2AEM,K3HP)
4,521-106- 33-ABD

Western New York

WB2BGI 15,176-245- 56-ABCD
W2PGC 7,334-148- 38-ABCD
W2CMS 6,279-137- 39-ABD
K2GK 5,282-119- 38-ABCD
W2AV 2,200-100- 22-B
K2QR 2,163-103- 21-B
K2OS 1,860-93- 20-AB
WA2SDY 1,520-76- 20-AB
WA2SZY 810-54- 15-B
W2FB 770-55- 14-B
K2EQ 506-58- 5-AB
K2QIE(+KA2DDJ,N2HR,WA2S
PHA VFX,WB2S PGU WSV)
WA2WVLI(+K2S LDU MP,WB2JLR,
W2VU) 12,800-218- 50-ABCD
K2JFV(+WA2TMC)
10,248-226- 42-ABCD
WA2ZJF(K2RKN,WA2RQC,WB2S
FBP MYZ NFB,opr) 9,828-154- 52-ABCD
N2JY(+WB2KIW)
8,976-185- 44-ABCD

3

Delaware

K3SXA 33,594-414- 66-ABCD
K4CHE/3 19,278-352- 51-ABCD

Eastern Pennsylvania

N3AHI 29,953-309- 77-ABCD
K3IUW 22,597-263- 59-ABCD
W3IIT 8,816-211- 38-ABC
K3IWK 6,405-165- 35-ABD
W3OKT 4,623-109- 34-ABC
WA2OKT 3,059-161- 19-B
WA3JUF 2,976-53- 24-CDE
N3AR 2,808-117- 24-AB
K3VYG 2,800-116- 20-ABC
W3ETB 2,024-79- 22-ABD
W3CL 1,566-63- 18-ABCD
K3KEL 81-9- 9-B
K3MTK(WB2YEL,WA3S KPP LBI
PUL TUL VUN WAK ZFD,opr) 74,046-764- 82-ABCD
WB3CZG(+A13G,K3MKZ,N3AVC,
WB3S CXE IWZ,W29DBT)
38,160-461- 72-ABCD
WB3JYO(+KA3S EEX ETT FOG,
N3S AMM BBY,WB3FFH)
4,623-109- 34-ABC
K3YTL(K3S FOL MWA,KA3EED,
WA3YON,WB3S CAI FFA FKQ
FYT JPC YON,opr) 27,132-406- 57-ABCD
WB3LNZ(+K3YL,KB3S HE IB,
N3ADC,WB3S DJF FRL FXJ
JHX) 19,918-384- 46-ABC
W3LPW(3S GFN JUZ UH,
WA3CUQ,opr) 9,196-242- 38-AB
AJ3R(+W3EEK,V33HOH)
1,198-102- 19-B
KA3AAE(+KA3EV8)
1,008-72- 14-B

Maryland - D.C.

K3AKR 16,128-240- 56-ABCD
K3HCE 13,770-236- 46-ABC
WB3LJK 6,723-249- 57-AB
W4NVW/3 6,536-159- 38-ABCD
W3IP 6,055-126- 35-BCD
W3HGX 2,760-138- 20-AB
WA3RWP 2,603-137- 19-B
WA3UJE 1,785-105- 17-B
N3AFM 1,380-92- 15-A
N3BAP 1,348-53- 16-AB
W3MSN 300-18- 15-ABE
W3USS(K3S ZJ ZR,N3S ATH
BED,WD4BI,CL7GLL,opr) 21,126-499- 42-ABC
W3PGA(K3S CXB FRX PHH,
KB3S CV EL,N3IT,JB3S JDF VRD,
WB3BIT,opr) 6,336-192- 33-AB

Western Pennsylvania

WB3CBB 3,536-136- 26-AB
WA3CPH 1,444-76- 19-B
W3CSA 1,444-73- 19-ABD
W3KIM 96-12- 8-ABC
W3GNN/3(+K3S PS TFL,KA3S
DEO DWR,WA3S BUX FFC JBV
UKE) 23,424-332- 61-ABCD
K3HKK(K2BS KA3DBR,
WB3H,WB3S AIE CXR),

LA4LN(W3,opr) 6,688-161- 38-ABD

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Alabama

W4CUE/4(KB4IY,WA4YD,WD4S
IXE PVI,opr) 2,682-149- 18-AB

Georgia

WA4NJP 11,220-238- 44-ABCD
W4ISS 780-35- 15-BD
NA4I 588-49- 12-AB

Kentucky

WB4NXY/4 867-40- 17-ABCD
WB4SMU 418-32- 11-BD
KC4EG(+KB4MN,KC4EF,
WB4YTI) 5,406-140- 34-ABD
WA4WZQ/4(+KA4HKK,WA4WZP,
WB4HRR,WD4GQU)
12,839-325- 37-ABCD

North Carolina

WA4AAV 1,672-88- 19-AB
WD4ODS 663-39- 17-AB
N4SM 476-34- 14-AB
W4ZZ 462-33- 14-AB
N4AJF 90-15- 6-AB
WA4WZQ/4(+KA4HKK,WA4WZP,
WB4HRR,WD4GQU)
12,839-325- 37-ABCD

Northern Florida

W4ODW 828-68- 12-ABC

South Carolina

N4DT 3,075-110- 25-ABCD
WA4LDU 2,530-100- 23-ABD
NB4S 189-27- 7-B
WB4NBK 180-20- 9-AB

Southern Florida

WA4LOX 2,310-110- 21-AB
K1FJM/4 294-41- 7-ABD

Tennessee

WB4JGG 10,633-197- 49-ABD
WA4QYK 1,655-57- 21-ABD
WB4LHD(+N5AYD)
5,544-158- 33-ABD

Virginia

N4CD 25,536-336- 64-ABCD
WD4GKN 11,680-208- 50-ABD
K4QIF 6,006-106- 33-BDE
N4KV/4 4,800-149- 32-ABC
WA4SBC 4,234-119- 29-ABD
N4VW 3,779-20- 32-ABCD
N4CNN 1,818-101- 18-B
N4CWP 114-19- 6-B
WA4TCA(AA4S NC OD,WA4S BPJ
DFS OFF,WB4ILW,WD4MBK,
opr) 8,073-181- 39-ABCD
WB4H(+WB4BVY)
5,425-175- 31-AB
KC4AO/4(+K4WQS,KB4NT)
630-84- 7-BC

West Indies

WA2ZWH/KP2 75- 15- 5-A

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Arkansas

WB5JAR 658-47- 14-AB
N5DL(+WB5PSE,WB5S CAN CAP)
13,616-250- 46-ABCD

Louisiana

WA5YOU(WB5NIF,opr)
576-28- 16-ABCD

Mississippi

W5UCY 441-49- 9-AB
W9IP/5(+AE9M,K9AKS,WA9YLB)
40,421-421- 83-ABCD

New Mexico

W7ZEA 252-55- 4-BC
N5ACP 156-37- 3-ABC
WD5GNW(+W02YF)
140-27- 5-ABC

Northern Texas

WA5VJB 2025-179- 9-ABCDH
K5IS 54-9- 6-AB
AB5L 18-9- 2-AB
WB5KTC(+AD5I)
1,684-136- 11-ABD
K5C(+WB5VZL)
544-62- 8-ABD

Southern Texas

KA5AAW 1,128-82- 12-ABD
K5LZO 273-39- 7-AB
K5RX 141-47- 3-B

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East Bay

N6AMG 2,373-98- 21-ABD
WA6LHD 232-29- 8-B
WB6NMV(+WA6S VPH ZJF,
WB6NAC) 2,749-232- 27-ABDE
N6APQ(+N6BGR,WA6SBJ,KA6S
BDC FTY ITV ITZ LVK MKZ)
3,995-213- 17-ABD
W9DHK(+WB6HJ)
1,547-119- 13-AB

Los Angeles

W6PFE 1,248-75- 13-ABCD
K6ZMW 234-13- 6-E
WB6NBK 239-23- 9-C
W6DCT 96-8- 8-BC
W6GGV(+WB6PKA)
11,552-387- 36-ABCD
K6BPC(KD6BX,WA6HXX,WB6S
AXE YVP,opr) 6,864-213- 24-ABCD

Orange

KA6ARU 895-179- 5-B
AC6C 594-18- 18-BCDE
KO6S 468-32- 12-ABC

Santa Barbara

KB6XG 1,224-114- 9-BC
AE6E(+N6S MI VI)
25,688-564- 38-ABCD
K6ELQ(+K6VMN,WA6S DJS IJZ)
17,639-432- 31-ABCD
WB9KMO/6(+K6HXW,W6OAL,
WA6S EJO NHB OYS,WB6S UNH
YQN,opr) 8,555-197- 29-ABCD
K6MEP(N6AFI,WA6FPX,WB6S
EDA GNS,opr) 4,416-158- 24-ABCE

Santa Clara Valley

K6KLY 5,616-173- 27-ABCD
K1RZ/6 4,752-264- 18-AB
WB6KBZ 3,388-82- 28-ABCD
WA6MZ 2,272-114- 16-BCD
K6JEY 312-34- 8-BD
AJ6T 240-24- 5-D

San Diego

AB6H 198-18- 9-ABC
WB6BD 1- 1- 1-B

San Francisco

WB6WML 138-23- 6-AB
KA1BFK/6 105-15- 7-AB

San Joaquin Valley

K6LNM 1360-124- 10-BC

Hawaii

KH6FLD 84-14- 6-AB

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Arizona

WA7JTM 460-46- 10-AB

Idaho

KB7N 96-16- 6-AB

Montana

W7KNT 215-43- 5-AB
KB7Q 32-16- 2-AB

Nevada

K7ZOK 962-37- 13-AB
WA7JUU 144-24- 6-B
W6SFH/7(+WA6KOD,KA7IGH)
133-15- 7-BDE

Oregon

K7HSJ 830-65- 10-ABCD
W7TYR 780-60- 10-ABCD
WB7OOF 292-64- 4-BC
N7DB/7 90-14- 5-ABCD

Utah

N7BHC 45-14- 3-ABD
N6CA/7(+WB6OPA)
70-12- 7-AB
WB7QVZ(+WA7ADK)
57-19- 3-B

Washington

K7KOT 2,235-123- 15-ABCD
WB7UUP 1,700-145- 11-ABCD
K7BTA 1,693-139- 11-ABCD
K7G/7 624-12- 5-AB
K7LYT 17-17- 1-A

Alaska

KL7WE 150-40- 3-ABD

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Michigan

KB8RK 328-41- 8-B
KA8DDQ 231-33- 7-AB
WB8KNL 81-9- 9-B
WB8DSG 12-12- 5-A
WB8DSV(+A18D)
6,355-199- 31-ABC
WB8SBO(+WA8KDP)
1,584-107- 12-AB
WB4LNM/8(+WA9TAQ)
272-34- 9-AB

Ohio

W7EKI/8 12,150-206- 50-ABCD
WA8TTS 2,698-71- 19-D
K8WW 2,628-73- 18-D
N8AXA 1,957-95- 19-ABCD
KA8DDV 1,700-100- 17-AB
WA8TJL 1,564-89- 17-ABD
WB8MD 864-72- 12-AB
K8DZ 726-23- 22-BD
WB8VSU 720-57- 10-BCD
KB8RQ 621-23- 23-ABD
KD8IO 550-25- 11-D
WB8LCV 396-44- 9-B
WB8JRP 360-18- 18-ABC
WB8FEJ 234-39- 6-AB
NB8SB 196-14- 14-AB
VE8BDG/W8 69-23- 3-B
WB8PKAL(KA8DSG,K8S
AMF DFX DUI GLO,W5UA,
WA8FHF,WB8S DQE ERA
TRK TSI,W8DAH,opr) 55,264-545- 88-ABCD
WA8ONQ(+N4AMG,N8BPP,
W8OEH,WA3OJX,WB8S NJR
OGS,WB8IGY)
49,665-557- 77-ABCD
WB8VP(N8AKF,W8LRW,
WB8JNO,WD8S CVH MIL,opr)
7,657-323- 31-ABCD
KB8UW(KA8S CNI DTE ET
GPW,WA8GMT,WB8RZG,opr)
6,851-221- 31-AB

West Virginia

W2FGK/8(K2LNS,opr)
13,005-276- 45-ABCD
WB8EC 705-25- 15-AD

W8TN

WBUT 578-30- 17-ABD
K3LNZ/8(WA3S EOQ NZL OYN,
W4PSJ,opr) 34,602-401- 73-ABCD

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Illinois

GW3NJY/W9 11,592-280- 36-ABD
K9RO 4,440-123- 30-ABCD
WB9SNR 2,299-58- 19-CDE
K9MBX 2,070-101- 18-BD
WB9WMM 1,064-76- 14-AB
W9SE 888-74- 12-AB
W9VI 798-57- 14-AB
WA9AHZ 660-66- 10-A
WB9DRA 648-54- 12-A
WA9BA 231-33- 7-B
N6NB/9 1-1- 1-B
AA9D(+KA9CKJ,WD9EBQ)
3,429-120- 27-