

# Results, 33rd ARRL VHF Sweepstakes

The VHF SS is looking for a few *more* good operators.

By Bill Jennings,\* K1WJ

From the "good old days" department — when was the last time there were over 900 logs received for the VHF SS? Hint: The price of gold was \$38 an ounce. Pittsburgh beat Baltimore four games to three to win the World Series. Gasoline was less than 50¢ a gallon, and in that same year mainland China was granted United Nations membership. Give up? 1971.

Did it again this year, 1980, with the 33rd running of the VHF Sweepstakes — 987 logs were received, up quite nicely from the 861 of 1979. Not quite up to the all-time-record year of 1961 when 1563 entries came pouring in, but quite respectable when compared to the 1000 to 1100 logs that were the order of the day for the SS in the early to mid 1960s. With a little coaxing of retired vhf contesters and our repeater friends, we can probably surpass the magical one-kilo-log barrier for the 1981 contest.

From all reports received with the contest entries, the contest weekend, January 12-13, was no barn burner of fantastic propagation and monster openings. Just your average January vhf/uhf conditions with a little better-than-average effort on the part of the Sweepstakes participants. A chance for a good operator to show his stuff and a time to put those recent station improvements to the test. Look at the single operator Top-Ten listings. Led by the sultan of Sweepstakes, WA3AXV, the top-three stations are the same three as last year, with one important difference — an average 12-kilo-point increase in score. Not surprising to find that 12 k points is the average increase that the Top-Ten average score of 57,624 in the '80 SS represents over the 1979 average of 45,696. Besides 'AXV, W3HQT and K3MWV, old friends from the '79 Top-Ten also include WA2DPU, N3AHI and WB2SZK, who make it again in 1980. We'd also like to welcome newcomers WB2WIK, WB3CDE, WA1MAO and WA1NGR/3 to the Top Ten.

The multioperator Top Ten saw WA1RWU's stalwarts make their move from a fifth place finish in '79 to the top spot for multis in 1980. By virtue of the 'RWU move, the K8III gang, in what they claim will be their last multioperator effort, moved down one slot to second place from number one in 1979. The average score for multiop stations (46,845, remained virtually unchanged from the 1979 average of 46,011.

Since it's fairly easy for anyone interested enough to scan the scores to find the total number of QSOs and multipliers for any given

## Top Ten

Single operator		Multioperator	
Call	Score	Call	Score
WA3AXV	77,064	WA1RWU	70,400
W3HQT	70,344	K8III	65,000
K3MWV	68,760	W3KKN	50,112
WB2WIK	63,070	WA8ONQ	50,102
WA2DPU	62,650	W8DJY	49,410
N3AHI	55,204	K2CBA	39,672
WB3CDE	48,840	WB3CZG	37,924
WA1MAO	46,134	W2SZ	37,520
WB2SZK	42,960	WB2LCC	36,868
WA1NGR/3	41,218	K1XR/1	31,472



Kudos to Charlie, K3ICH/4 for his accomplishments in this VHF SS; top Virginia Section single operator, Roanoke Division leader, and top entrant from the Potomac Area VHF Society.

station, we've decided to replace the QSOs/Multipliers box with a QSOs-per-band box for the top single operator station from each call area. An all-time division-leader box is also included for the first time since 1978.

## Club Competitions

In the unlimited class competition and overall club aggregate top winner is — the tension mounts — The Mt. Airy VHF Radio Club. As they have each year since 1961, the Packrats have rallied their forces to lay claim to the title of top club in the VHF SS. The Packrats' 1.3-megapoint score, with 77 members submitting, represents a 200-k point increase and an additional two members submitting over their totals from 1979.

The Rochester (New York) VHF Group did not rest on past laurels either. With 46 fewer entries, Rochester managed to add to their 1979 club point aggregate with a fine 905-k showing.

With the appearance of the *other* Rochester

(Minnesota) group, The Rochester ARC, in the unlimited club class, we're going to need a scorecard to keep the players straight. There'll be a little more on how the gang from Minnesota got their act together for the unlimited-class competition.

The competition for the club gavel in the medium-club class was just about as close as they come. The South Jersey Radio Association made it two medium-class gavels in a row, by adding 50 k points and three additional entries to their 1979 effort. The Ramapo Mountain ARC, formerly the 550 ARC, slid into a very close second place behind the SJRA by a scant 2000 points.

Again in the local class of club competition the race for top spot was oh so close. The MIT Radio Society managed to hold onto a 2000-point edge over a much-improved Warminster RC, which managed to more than quadruple its 1979 club aggregate score. The MIT Radio Society is a second-time winner of the gavel for the local-class club competition in the VHF SS.

As promised, a few notes on how the Rochester (Minnesota) ARC hit the unlimited class of club competition. Of course everyone/every club doesn't have the resources/operators to go into the unlimited class (50 or more entries — see January *QST* for club competition rules and class breakdowns). But it's not all that hard to get a group/club together to participate in the VHF SS or any ARRL contest that has a club-competition portion. Since the club must be ARRL-affiliated, the first step would be to write to the Club and Training Department here at Hq. for the affiliation papers to get the ball rolling. A few simple forms to fill out and your club is on the way to affiliation. After affiliation has been confirmed, it's only a matter of assessing the club's capabilities and preferences, complying with the regulations and going to town in the contest of the club's choice. It's that easy. No reason why almost any group that wants to participate as an affiliated club can't do so.

We strayed a bit, so back to Minnesota to hear from club members WØRGU and WØVB. In going back over past VHF SS contest results, the first listing we find for Rochester was in 1977 when they had three entries and 2100 points. Quite a difference from their 1980 effort of 56 entries and 43 k points.

WØVB organized the first multiop station for us in the June VHF QSO Party three years ago and things have been on the upswing ever since.

\*Communications Assistant, ARRL

### All-Time Division Leaders

Single Operator Call				Multioperator Call			
Call	Score	Year	Division	Call	Score	Year	Division
WA3AXV	77,064	80	Atlantic	W3KKN	50,112	80	Atlantic
K9RO	30,080	80	Central	K9HMB	45,312	78	Central
WA0CSL	8190	76	Dakota	K0VXM	7830	79	Dakota
WB4JGG	16,884	80	Delta	WB4HEL/4	8880	73	Delta
K8LEE	41,080	76	Great Lakes	K8III	80,984	79	Great Lakes
WB2WIK	63,070	80	Hudson	K2OWR	65,562	76	Hudson
K9ECV/0	12,690	68	Midwest	K0VUY	14,196	76	Midwest
WA1MAO	46,134	80	New England	WA1RWU	70,400	80	New England
WA7KYZ	10,296	79	Northwestern	K7ND	9690	79	Northwestern
WA6JUD/6	23,868	76	Pacific	WA6BMV	24,814	77	Pacific
K3ICH/4	23,744	80	Roanoke	W4BFB/4	27,392	80	Roanoke
N6NB/7	6120	80	Rocky Mountain	WA0PHZ/0	8062	68	Rocky Mountain
W4GDS	26,400	73	Southeastern	W4VO	18,966	78	Southeastern
N6NB	25,880	79	Southwestern	W6FNE/6	20,352	63	Southwestern
K5CM	14,100	78	West Gulf	K5STI	12,804	59	West Gulf
VE1ASJ	21,156	79	Canadian	VE1DXA	13,266	79	Canadian

### 1980 Division Leaders

Single op	Division	Multiop
WA3AXV	Atlantic	W3KKN
K9RO	Central	K9AKS
K0VXM	Dakota	WB0UIP
WB4JGG	Delta	K4VPK
WA8TTS	Great Lakes	K8III
WB2WIK	Hudson	K2CBA
WB0TEM	Midwest	K0TLM
WA1MAO	New England	WA1RWU
K7KOT	Northwestern	K7ND
WB6KBZ	Pacific	WB6NMV
K3ICH/4	Roanoke	W4BFB/4
N6NB/7	Rocky Mountain	N0KV
WA4NJP	Southeastern	W4VO
W6ABW	Southwestern	K6MEP
K5CM	West Gulf	WD5FZM
VE3BQN	Canadian	VE3AEA

### Club Competition

Club Name	Score	No. of Entries	Club Winner
<b>Unlimited Class</b>			
Mt. Airy VHF RC (DE/NJ/PA)	1,369,830	77	WA3AXV
Rochester VHF Group (NY)	905,794	184	K2YCO
Rochester ARC (MN)	43,090	56	W0VB
<b>Medium Class</b>			
South Jersey Radio Assn.	217,076	22	WA2KOK
Ramapo Mountain ARC (NJ)	215,060	33	K2MLB
Hampden County Radio Assn. (MA)	142,566	26	AC1T
West Jersey Radio Assn.	135,830	21	N2ASC
Potomac Area VHF Society (MD/VA)	116,296	15	K3ICH/4
Murphy's Marauders (CT/MA)	88,460	5	WA1MAO
Gloucester County ARC (NJ)	80,624	13	WA2PFC
Northern California CC	32,308	5	N6CT
Mitre-Bedford ARC (MA)	25,292	8	AD1C
Mobile Sixers RC (DE/PA/NJ)	22,872	19	WA3JMM
<b>Local Class</b>			
MIT Radio Society (MA)	31,126	4	W1MX
Warminster RC (PA)	29,938	7	WB3KNU
Wellesley ARS (MA)	25,884	4	K1FWF
Central Michigan ARC	18,580	7	WA8SQL
Michigan City ARC (IN)	17,080	7	K9EFX
Six Meter Club of Chicago	16,992	10	WA9FIH
Mt. Tom Amateur Repeater Assn. (MA)	15,742	3	W1JP
Plano AR Klub (TX)	14,100	5	WD5HDM
Skylands ARC (NJ)	12,528	3	WB2NCF
Northrop RC (CA)	7398	4	W6CN

### Single Operator Call Area Leaders — QSOs per Band

	50	144	220	432	1296
WA1MAO	222	419	18	11	—
WB2WIK	214	443	61	61	—
WA3AXV	194	432	116	78	—
K3ICH/4	160	176	20	23	—
K5CM	102	60	—	14	—
WB6KBZ	74	182	2	26	5
N6NB/7	15	117	14	5	—
WA8TTS	259	109	—	26	—
K9RO	134	232	—	5	—
WB0TEM	38	89	5	2	—
VE3BQN	80	192	7	22	2

Rochester ARC came through with flying colors. Over 50 local club members caught the fever of the contest and gave old 146.52 a workout like it had never seen in this area.

"Suggested operating times were given in the club paper and the members rose to the occasion.

"As a first-time club contest coordinator, I found, much to my surprise, that the contest did not end for me when the actual contest operation ended. In fact, rounding up the logs and scores from the participants proved to be as challenging as working stations during the contest. My hat is off to the contest chairmen of the larger clubs. I sure could use some helpful hints on how to make the job a little easier for next year's SS." — W0VB.

That's about it for VHF SS '80. If you enjoyed this bash, you might want to check out the June VHF QSO Party on the weekend of June 14-15 and/or the UHF Contest on the weekend of August 2-3. Rules for the June VHF Contest announced in May QST were not clear in two areas: The required exchange is the ARRL section *only*, and time limits on 223.5 and 146.52 MHz are four hours *each*. Comments, suggestions, praise and criticisms of the ARRL VHF/UHF contest program are always welcome. If you've got something to say, let us know.

CU in VHF SS 1981.

### SOAPBOX

Conditions here in Sterling (Virginia) seemed to be no better than average. A few locals reported hearing the VEs, but no soap here. . . . I guess the timing of aiming the increasingly narrow patterns was not right for me. I wish more of the ops would either move their antennas around more or else consider the use of smaller, vertically stacked antennas with more horizontal beamwidth (especially on 432) (W3IY/4). Heard no E or F layer opening on 6 meters this year. Scatter was fair, with bursts all day on Sunday. Condx on the rest of the bands were about average for a January 'test (WA3AXV). There was a small aurora

"When Terry (W0VB) suggested that we could make the jump into the unlimited category (more than 50 entries), nobody took him seriously. Most of the operators that he was counting on were only on 2-meter fm and had never participated in a contest!

"As can be seen from the logs, Terry did an exceptional job. He was ably assisted by Joe,

K0TS, who coordinated things from the club's end, and Bill, WB0YEE, who helped to get the word out to the people who were on 2-meter fm. — W0RGU

"Typical propagation for the contest from here in Minnesota. With the exception of a one-hour aurora, no sporadic E, tropo or ducts to speak of. However, the members of the



Eastern Pennsylvania's number-two multiop entry, WB3CZG. Left to right are WB3CZG and WA3NVS — operating and logging, WB3CZG's antenna farm, and WB3IWZ and K3MKZ enjoying a little snack. No — that's not crow the guys are eating, but good old home-fried chicken.



KB2JW 1100-50-1-AB  
W2RFQ 1040-35-3-AB  
WB2FGS 1034-47-1-AB  
K2PY 990-1-1-AB  
WA2PYH 902-41-1-AB  
WA2MKX 880-40-1-AB  
WA2SNX 836-38-1-AB  
N2BAD 799-29-1-AB  
WB2ZLU 792-36-1-AB  
WA2RHW 752-27-3-AB  
WA2RYV 660-30-1-AB  
WB2RYV 660-30-1-AB  
N2IC 638-29-1-AB  
WB2EVD 572-26-1-AB  
WA2NZO 520-13-10-AB  
W2EJO 356-18-1-AB  
WA2YRL 242-11-1-AB  
WA2ZKD/2 176-1-1-AB  
WA2GNS 176-8-1-AB  
KA2ER 132-6-1-AB  
K2GIE(+KA2HDQ,WB2WSV)  
27,090-367-25-ABD  
W2UTH(+WA2S FIIH LRV UKX  
VUB VZF, WB2GIP)  
24,618-366-23-ABD  
WB2UEE(KB2I,WA2CJT,WB2S  
BGI EFB,oprs)  
21,700-298-28-ABD  
W2AV(+WB2KAO)  
21,318-312-23-ABD  
WB2PSI(K2S SPO VBK,WA2ZKD,  
WB2PKO,oprs)  
17,888-297-16-ABD  
WA2KGM(+KA2FND,WB2KGL)  
14,280-317-11-ABD  
WB2EMS(+KA2DIB,WB2MF,  
WB2EAE)13,992-302-12-ABD  
WA2WVL(+WA2UBE,WB2PLI)  
13,662-264-13-ABD  
WA2AAZ(WB2GCH,WB2ESS,  
WA2S GAI,MCDD,WB2S EWR MBO  
SSB TGU TRI,oprs)  
12,432-259-14-ABD  
WA2ZJF(+K2388,WA2MT  
RQC,WB2S FBP MYF,NFB,oprs)  
10,712-184-16-ABDE  
W2DUC(+WA2EIV,WB2RIP)  
10,200-10-1-ABD  
WB2HW(+W1LV,K2KH)  
8244-229-8-AB  
WB2IEY(+WA2YTM)  
7568-35-8-ABD  
K2UW(+WA2ZLU)  
6816-213-6-ABD  
N2BNE(+KA2CFK,WA2MXL)  
528-12-4-ABD  
WB3LHQ/2(+WA2MQP)  
4680-195-2-AB  
K2JD(WB2JQR,N2EH,oprs)  
2588-112-2-AB  
WA2GUP(+W2XJ)  
484-22-1-AB

**3**  
**Delaware**  
WA1NGR 41,218-478-27-ABCD  
K4CHE/3 10,350-220-13-ABD  
WA3WUL 9072-189-14-B  
WB3BD 4004-91-12-AB  
WA3CRM/2 2464-66-4-BC  
N3APV 1064-38-4-AB  
WB3GV 896-32-4-AB  
WA3UVR 132-6-1-AB

**Eastern Pennsylvania**  
WA3AXV 77,064-820-28-ABCD  
W3HQT 70,344-799-26-ABD  
WB3HW 68,760-193-1-ABD  
N3AHI 55,204-608-27-ABD  
WB3CDE 48,840-626-23-ABD  
W3HMU 34,452-430-19-ABD  
K3IUV 33,750-502-15-ABD  
WA3YUE 32,368-467-18-ABD  
WA3JUF 30,914-389-19-ABD  
K3LOM 30,218-461-19-ABD  
WA3WAS 29,904-450-18-ABD  
W3IIT 29,808-475-17-ABD  
AE3T 26,994-403-23-ABD  
K3ACR 26,104-423-16-ABD  
W3CJU 24,500-12-1-ABD  
W3CL 22,494-389-13-ABD  
WA3NUP 21,022-373-13-ABD  
WA3AAJ 20,284-361-12-ABD  
N3MW 19,511-12-1-ABD  
WA3NFV 19,604-280-19-ABD  
K3BPP 19,536-330-14-ABD  
WA3AQA 17,986-326-13-ABD  
K3KTY 17,760-297-14-ABD  
W3SMX 14,880-246-14-ABD  
K3NHX 14,700-283-11-ABD  
K3KYS 13,636-193-1-ABD  
K3MXM 12,840-269-10-ABD  
WB3JYO 12,768-266-14-ABD  
K3VYG 12,008-244-9-ABD  
K3IGX 11,924-204-12-ABD  
K3IWK 11,700-218-15-ABD  
K3GAS 11,520-222-10-ABD  
KB3HE 10,920-210-11-ABD  
K3HIN 10,438-266-7-ABD  
W3HK 10,340-206-12-ABD  
W3ZD 10,208-158-12-ABD  
WB3CXU 10,044-176-8-ABD  
WB3CPW 9480-198-10-ABD  
WB3TSE 9476-175-13-BC  
W3JAF 9320-193-10-ABD  
W3NSI 8840-189-8-ABD  
K3EPB 8532-199-5-ABD  
WA3OVH 8400-230-5-ABD  
WB3HHD 8200-193-1-ABD  
WB3KNU 7720-193-10-ABD  
K3DMA 7128-180-8-ABD  
WA3HIT 6604-199-3-ABD  
K3KMN 6188-154-6-ABD  
K3QO/3 7200-136-6-ABD  
WA3JMM 5590-152-3-ABD  
WA3JMT 5320-104-9-BC  
WB3CTP 5010-127-3-ABD  
K2KRC/3 4264-115-7-ABD  
W3AWA(WA3KFT,oprs)  
3944-115-7-ABD  
K3PHY 3708-103-8-ABD  
WA3TQD 3432-132-3-ABD  
W3FQD 3420-88-8-ABD  
WB3FJC 2592-81-6-ABD  
WA3HVL 2572-81-3-ABD  
WA3IGY 2380-67-7-ABD  
WB3KES 2328-66-2-ABD  
WA3KES 2210-61-2-ABD  
K3EBZ 2210-85-3-ABD  
WA3QVU 2184-78-4-ABD  
WA3EHD 2106-81-3-ABD  
K3LYB 2056-73-2-ABD  
K3DLS/3 1968-41-2-ABD  
WA3TEM 1968-41-2-ABD

WA3SPR 1716-41-3-ABCD  
K3IQO 1680-70-2-AB  
WA3EPS 1008-42-2-AB  
WB3JUG 930-30-1-ABD  
N3AKF 832-32-3-ABD  
K3VEQ 728-28-3-ABD  
KA3APT 702-27-3-A  
WB3RDP 692-27-2-ABD  
K3RSK 676-26-1-ABD  
WA3NDE 672-14-2-C  
WA3JNF 598-23-3-A  
KA3JUR 585-45-3-ABD  
WB3NR 576-45-3-ABD  
WA3IMT 528-22-2-A  
K3HES 432-18-2-A  
WB3HFJ 312-13-2-ABD  
K3GZ 262-16-3-ABD  
WA3DZT 240-10-2-A  
WA3CWY 154-5-1-BC  
WA3NAO 120-5-2-AB  
N3AHP 122-3-AB  
W3KKN(+K3KMN,W3CXU)  
50,112-662-22-ABCD  
WB3CZG(+K3MKZ,N3AVC,  
WA3NVS,WB3WIK)  
37,924-454-28-ABCD  
WA3FOF(+K3S DLS HW)  
19,872-370-13-ABD  
N3EG(+W3HVI)  
18,240-394-10-ABD  
WB3LNU(+W3BGZE)  
17,342-277-19-B  
K3JUZ(+WB3JH)  
15,888-271-14-ABCD  
W3LP(W3S GFN JUZ UH,  
WA3CUG,oprs)  
15,022-259-19-AB  
WB3FRL(+AG3R,WB3S BLE  
DJF) 13,850-277-15-AB  
WB3HTW(+KA2EAG)  
12,432-259-14-ABD  
WA3ZJO(K3DMA et al)  
1416-59-2-AB

**Maryland - D.C.**  
K3HZO 15,934-224-21-ABD  
WB3LJK 14,432-236-21-B  
W3XO 13,676-235-16-ABD  
WA3NZL 10,816-151-22-ABD  
K3ZJ 10,442-217-13-ABD  
WA3OYW 9120-182-14-ABD  
K3AKR 8496-156-14-ABD  
WB3IUT 7840-140-18-B  
WB3EQO 7832-147-12-ABD  
WB3CHS 7694-81-7-ABD  
W4NVW/3 6762-139-13-ABC  
W3HQX 5412-123-12-B  
4B3CMF 4630-101-11-ABD  
K3LFC 4262-66-1-ABD  
W3EYF 3960-90-12-B  
N3AFM 3916-89-12-AB  
W3JGT 3268-58-9-ABD  
W3JPT 1754-8-1-ABD  
W3MSN 1952-55-6-ABC  
N3API 576-24-2-AB  
K3DUA(+WB3CCK)  
25,320-369-20-ABD  
W3IP(+K3S HOI YDX,W3FG,  
WB3S ICL TID,WB8CXB)  
24,979-18-1-ABD  
W3PGA(K3S FRX PHH,ROJ YZY,  
KA3CTA,KB3CV,N3S AID IT,  
W3S DJD VRD,W3S FHY,  
LAW TUN,WB3S AXP BGS BIT  
KUH,oprs) 9308-179-16-AB  
AC3P(+AC3F,WB3EBB)  
1110-37-5-AB

**Western Pennsylvania**  
WA3FFC 11,178-194-17-ABD  
WB3CCW 3680-80-13-AB  
W3CSA 3440-86-10-AB  
WB3KAF 1890-63-5-B  
W3HDT 24-9-AB  
WA35JM 630-21-5-AB  
W3KWH(W3S IOH SVJ ZR,WA3S  
FYJ VJX,WB3S EHQ,EML HDI,  
oprs) 11,842-188-21-ABD  
W3PIE(+WA3S DJG WAW,WB3S  
CBB JHC)11,842-188-21-ABD

**4**  
**Georgia**  
WA4NUP 17,136-250-26-AB  
W4WTA 900-30-5-B  
WA1SS 750-20-5-BD  
AK4T 288-12-2-AB  
W4VO(K4CKS,W4A1B,WB4AEG,  
WD4JLI,oprs)  
18,600-300-21-AB

**Kentucky**  
WA4IPI 8932-168-12-BCDI  
K448B1 2440-19-1-ABD  
KAUKI 2310-55-11-B  
W4SMU 1380-41-5-BD  
WB3JUF/4 1024-32-6-B

**North Carolina**  
WB4NPG 6026-131-13-ABD  
W4AZIA 4218-88-9-ABD  
WB4IXU 3240-82-8-ABD  
W4ZZ 1938-57-7-AB  
K4ROM 1008-36-4-AB  
WA4WZQ(+KA4HK,K4YBC,  
WA4WZP,WB4HIE,WD4GQU)  
4470-132-5-ABD

**Northern Florida**  
W5HUQ/4 1638-39-11-AB  
K4DD 140-47-1-ABD  
W4CSS 868-29-4-ABD

**Virginia**  
K3ICH/4 23,744-369-18-ABD  
W3IY/4 1736-268-18-ABD  
N4CD 12,644-202-19-ABD  
WA4SBC 6624-118-14-ABD  
WD4GXN 6448-115-16-ABD  
K4LHB 6116-127-12-ABD  
WD4CXU 5800-108-5-ABD  
W2KFC/4 5280-115-12-ABC  
KC4B 4554-99-13-B  
N4FA 3662-86-11-B  
K4FIW 2144-67-6-AB  
WA4MCP 1482-39-9-AB  
N4MM 1392-24-9-AB  
WD4AZG(+WB4DQ)  
3864-12-6-AB  
WA4GPM(+WA4DOX)  
1188-25-8-ABD

**West Indies**  
K8MMM/KP4 132-6-1-A

**5**  
**Louisiana**  
N5JM 44-2-1-A

**Mississippi**  
W5UCY 1120-38-4-ABD  
WB5OWX 216-9-2-B  
WB5QCB(+WA4AUX)  
384-12-6-AB

**New Mexico**  
WB5AOX 1440-45-6-B  
K5MAT 1320-52-1-ABC  
N5RR 856-39-1-A

**Northern Texas**  
WASVJB 7380-220-5-ABD  
WD5HDM 5120-37-6-ABD  
WB5UER 4584-59-1-ABD  
WD5HUV 462-21-1-AB  
K5IS 168-6-4-AB  
N5JB 110-5-1-B  
WD5LUJ 110-5-1-A  
WD5FZM(+KA5DOB)  
4230-158-2-ABD

**Oklahoma**  
K5CM 13,680-176-26-ABD  
K5QNM(+KN5TT)  
504-18-4-B

**Southern Texas**  
W5GVE 2688-85-2-ABDE  
WD5ERG 1944-70-2-ABD  
W5GVE 1944-70-2-ABD  
WD5HYU 1536-52-2-ABD  
WA3OVC/5 588-49-1-B  
K5NA 330-15-1-AB  
K3AAL/5 KA5AIO(+K5A5C10,N5FO,  
WD5HPD,WN58BX)  
W5UWB(+W5TBE)  
2380-68-4-ABDE

**6**  
**East Bay**  
NGAMG 9216-233-8-ABD  
WA6BOB 1860-61-5-ABD  
K6XO 364-14-3-B

**Los Angeles**  
W6ABW 5236-130-4-BC  
K6LMN 478-103-3-BC  
K6AGDV 2054-49-3-BC  
W6CN 1482-57-3-BC  
W6NKB 936-18-3-BC  
WA6DCT 756-17-3-BC  
N6NO 624-12-3-C  
WB6AAG(+W6BS HJO JCD)  
4200-94-5-ABD

**Orange**  
WA6PMX 4674-123-9-AB  
K6KM 3976-142-4-BC  
K6BY 616-11-4-C  
W6XD 224-8-4-A

**Santa Barbara**  
W6EJO 584-22-4-BC  
K6MEP(AC6I,K6E ELQ VMN,WA6S  
DJS IJZ,oprs)  
18,312-328-11-ABD

**Santa Clara Valley**  
WB6KBY 15,936-289-14-ABD  
WA6MGZ 9560-213-10-ABD  
K6KLY 7956-214-8-AB  
WB6ZKD 7650-202-7-BC  
WA6GVD 6810-171-5-ABD  
W6XN 6800-122-7-BCDE  
WB6CT 4140-138-5-AB  
WB6CFW 2970-80-5-AB  
K4FTO/6 1404-6-1-AB  
A6T 1300-25-3-D  
WB6NVM(+WA6S VPH JZF,WB6S  
MYC NGC)  
12,160-256-9-ABD  
N6RZ(+WA6BYA)  
10,080-232-10-ABD  
W6YX(K13H,W6ITV,N7M,H,  
W8Z1,oprs) 4384-126-6-ABD

**San Francisco**  
N6CT 12,048-251-14-AB  
K9AT/6(+WB9LZ)  
2250-68-5-BC

**San Joaquin Valley**  
W6YKM 10,080-193-11-ABD  
K6JKQ 3774-75-7-ABD

**Sacramento Valley**  
W6SX 120-5-2-B  
WA6KOD(+WFH)  
1410-39-5-ABD

**7**  
**Arizona**  
WA7VIS 1392-44-2-ABDE  
W7LUX 1176-34-4-ABD  
W7FDQ 1080-36-5-A

**Idaho**  
WA7YAX 416-16-3-AB  
**Montana**  
KA1EA/7 110-5-1-AB  
W7KNT 44-2-1-A

**Oregon**  
K7HSJ 1638-52-3-ABD  
N7DB 240-10-2-AB

**Utah**  
N6NB/7 6120-151-8-ABD  
N7BHC 132-6-1-B

**Washington**  
K7KOT 3380-113-3-ABD  
WB7UUP 592-86-3-ABD  
K7LYT 352-16-1-A  
W7IDZ 130-20-3-AB  
K7ND(+WB7DTI)  
7360-196-6-ABD

**Alaska**  
KL7WE 1034-40-1-ABD  
WA9LPK/KL 426-7-1-ABD  
WB4WXE/KL7(+WB4YLR)  
22-1-1-A

**8**

**Michigan**  
WB8BGY 13,824-243-17-ABD  
WB8DSV 10,712-206-16-ABD  
WA8SQ 9072-206-11-ABD  
WA8ABN 3872-88-12-AB  
K8LJQ 2546-67-9-AB  
WB8AA 2240-70-6-AB  
K8QB 654-113-19-A  
K8BGZ 1800-50-8-B  
KA8BCL 1530-45-7-B  
WA8ACW 1080-36-5-B  
WB8CY 1054-31-7-A  
KA8DDQ 654-23-4-AB  
K8AJK 132-6-1-A

**Ohio**  
WB8TTS 36,120-394-33-ABD  
WB8CTX 11,286-196-17-ABD  
WB8PT 10,476-170-17-ABD  
K8DIO 9457-166-17-ABD  
WA8TJL 7400-140-15-ABD  
K8GQB 654-113-19-A  
WB8NR 5760-112-11-ABD  
K8EUR 5250-125-11-B  
K8WV 4704-49-14-D  
K8ZES 4400-103-1-ABD  
WB8JPP 4400-82-10-BC  
N8AXA 3952-101-9-ABD  
KA8DVD 2850-70-9-ABD  
K8ZES 4704-103-1-BCD  
W8LCY 1696-53-6-AB  
K8HRR 1036-37-4-AB  
WB8BLX 988-38-3-B  
K8ZES 740-27-2-AB  
K8MR 432-18-2-B  
K8IIL(+KA4DCZ,WA8RCN,  
WB8KRY)  
65,000-650-40-AB  
WA8ONQ(+K8VVV,KA8FCP,  
WA8NJR OGS ONQ,WB8IGY,  
WB8DEH) 50,102-500-37-ABD  
WB8YI(+K8V W8ULC,  
WB8NFJ,WB8JDR)  
49,410-505-35-ABD  
WB8SMC(W8XT,WB8BMK,oprs)  
1222-44-3-BC

**West Virginia**  
WB8LX 7900-151-15-ABD  
WB8TN 1638-38-11-ABD  
WA8YEI 1480-6-6-AB  
WB8BMV 364-13-6-AB  
WB8ZZL(+WA8QMK,WB8CDT)  
12,240-207-20-B

**9**  
**Illinois**  
K9RO 30,080-371-30-ABD  
GW3NJV/W9  
19,850-361-15-ABD  
K9MBX 19,850-235-12-ABD  
WB9SNR 3990-83-9-BCD  
WA9FPH 3042-102-3-ABD  
K9B 248-65-8-BCD  
WB9SP 2010-1-1-ABD  
KA9BTJ 1920-52-5-BC  
K9ZVW 1848-73-2-ABD  
K9ZVU 1848-73-2-ABD  
K9ENZ 1764-63-4-AB  
W9IVI 1760-55-6-AB  
K9GJU 1632-62-2-AB  
W9ISE 1564-46-1-AB  
N9AMY 1200-50-2-AB  
WA9CJZ 1080-45-2-AB  
WA9AHZ 870-29-5-A  
W9ABA 700-50-4-AB  
K9VJQ 648-27-2-AB  
K9AKS(+K1TX,N1AGD,W3EP,  
W9S IPZ) 29,648-406-24-ABD  
WD9EBQ(+A9D)  
2754-71-7-ABC  
W9AZ(KA9CQM,WB9S STR WOC,  
WD9S EVV F83,oprs)  
632-51-6-AB  
WD9BHK(+WD9GGY)  
660-55-2-B

**Indiana**  
K9WZB 13,632-284-14-B  
WA9PKL 6528-136-14-AB  
WB9NTL 5922-135-11-ABD  
K9EFX 5300-140-9-B  
K9DZ 5206-137-9-AB  
WD9ZEM 4400-75-9-ABD  
WD9INN 2916-81-8-AB  
N9AZC 2240-56-10-AB  
KB9JD 1862-49-9-AB  
WB9SDV 1862-49-9-AB  
WB9FNR 1386-89-7-ABD  
WD9EIX 1064-38-4-AB  
N9AJH 620-20-3-AB  
WB9YHH 620-20-3-AB  
K9SLQ(+K9S MRI TVZ,  
WD9FAO)13,932-253-17-ABD  
WB9S79(+K8DJK,N8FU,WD8S  
BYS SDL,WB9EWD)  
4590-153-5-AB

**Wisconsin**  
WB9NL 4536-98-11-ABD  
WA9JFM 3914-91-9-ABD  
K9DACY 3914-91-9-ABD  
K9X 3622-67-17-ABD  
WA9CUH 2160-56-8-ABD  
WA9LZM 832-26-6-AB

**0**

**Colorado**  
WB9WJT 1908-53-7-AB  
NPKV(+AA9NS BZ DVJ)  
319-95-12-ABD  
WB9ZL(+WA9WTG,WB9S IKJ  
OPV) 1144-43-3-ABD

**Iowa**  
WB9TEM 7050-134-15-ABD  
K9 4830-10-11-ABD  
WRAP 2448-60-8-ABD  
K9VM 2128-56-9-AB  
WA9RJT 1360-40-7-AB  
WB9ZKG(+KA9K GCLQ)  
4924-107-13-AB

**Kansas**  
WB9ISW 2656-61-6-ABD  
WB9QA 1152-32-6-ABD  
WB9SJ 1102-27-9-ABD  
N9LL 864-24-8-AB  
WB9NRV(+WD9EYR)  
2592-69-8-ABD  
WB9T(+K9BOY)  
2318-56-9-ABD

**Minnesota**  
WB9VB 4294-104-9-ABD  
WB9HU 3708-90-8-ABD  
K9 2770-62-6-ABD  
K9SE 2610-8-5-ABD  
K9TS 1742-64-3-ABD  
WB9ETA 1560-52-5-AB  
WB9E 1560-52-5-ABD  
WB9YEB 1400-56-3-AB  
N9BJR 1404-54-3-AB  
WB9YMI 1404-54-3-AB  
K9 5248-48-3-ABD  
N9AVB 1012-46-1-AB  
WB9M 924-43-2-AB  
WB9ISF 864-33-2-ABD  
WB9SB(WB9VLS,oprs)  
816-34-2-B  
KA9CSE 814-37-1-AB  
K9SIR 792-33-2-AB  
WB9HXL 770-15-1-AB  
KA9CRX 748-34-1-AB  
WB9FCX 748-34-1-AB  
WA9RFJ 594-27-1-AB  
WA9VX 440-27-1-AB  
WB9GYS 506-23-1-AB  
WB9MX(WB9SJM,oprs)  
484-22-1-AB  
WB9 286-13-1-ABD  
K9IJU 484-22-1-ABD  
WB9GLS 456-19-2-AB  
WB9IKO 440-20-1-AB  
W9A 418-19-1-AB  
K9I 396-13-1-AB  
K9AE 396-18-1-AB  
WA9VEZ 396-15-1-ABD  
WA9BE 352-16-1-AB  
WA9M 330-15-1-AB  
WA9EJK 330-15-1-AB  
WA9UJ 330-15-1-AB  
WB9FFJ 330-15-1-AB  
WB9BU 330-15-1-AB  
WB9ZBJ 308-14-1-AB  
N9AXW 286-13-1-AB  
WB9TY 286-13-1-AB  
WB9EOI 220-10-1-AB  
K9JCF 220-10-1-AB  
WA9EJW 220-10-1-AB  
WB9YU 220-10-1-AB  
N9BA 198-9-1-AB  
WB9OMN 198-9-1-AB  
WB9QIG 198-9-1-AB  
WB9NUJ 132-6-1-AB  
K9PSH 88-4-1-AB  
WA9WTV 88-4-1-AB  
K9EWA 44-2-1-AB  
WB9A 44-2-1-AB  
K9IHW 22-1-1-AB  
K9JUX 22-1-1-AB  
WB9UIP(+WB9RQ)  
326-88-8-ABD  
WA9QWY(+KA9CRO)  
1008-42-2-AB

**Missouri**  
A9L 4002-87-13-B  
K9WB 1292-31-5-ABD  
K9OT 480-16-5-AB  
K9TLM(+N9AJ,WB9DRJ)  
6854-128-13-ABD

**North Dakota**  
WB9HSC(WB9YVX,WB9S AJS  
HTX,oprs) 216-9-2-AB

**South Dakota**  
K9VXM 7000-126-15-ABD  
WB9XMS 3864-90-11-ABD

**VE**

**Quebec**  
VE2DFO 18,720-249-26-ABD  
VE2VK 6720-140-14-AB  
VE2BBK 2058-43-11-ABD

**Ontario**  
VE3BQN 20,280-303-20-ABD  
VE3EJO 16,588-286-19-AB  
VE3BYO 7360-184-10-AB  
VE3FN 5332-78-21-ABD  
VE3AEJ/3 448-2-2-AB  
VE3AEA/3(VE3S FDP ICA,oprs)  
11,098-173-21-ABD

**British Columbia**  
VE7AS1 840-28-2-ABD

**Check Logs**  
WA1LUJ(K1ZKR,oprs) W3CLO,  
N5AXN,W6TRW(K6S AWGX,  
WA6EVS,oprs)