Results: 1975 VHF Sweepstakes

REPORTED BY JIM CAIN,* WAISTN

THIS WAS PROBABLY a typical winter weekend for vhf propagation; one when little or nothing would have happened without a contest. With a contest, everything happened — but not enough to flush out the casual participants whose activity is so important if any impressive statistics are to come out of the weekend. There was pretty fair winter tropo at intervals, with 144 and higher getting the best of this, of course. The 6-meter round-the-clockers caught enough sporadic E and morning scatter to make for some impressive section totals. But all things considered, one would have to say that it was a relatively quiet contest weekend.

Having set aside the weekend for contesting, not a few ops were taking it easy and engaging in the almost lost art of rag chewing on the vhf bands. Many find this one of the appeals of a contest weekend. One runs across people he hasn't talked to in a year, and a few, at least, are familiar names and calls from the earliest days of vhf communications. In this respect, the year-first-licensed check turns up some interesting reminders of the durability of amateurs in general, and those on the vhf bands in particular. Several checks in the "20s" were heard on the bands.

Although some will say this was a dull contest, and others will read into it signs of deteriorating whf interest, if there had been just a little more of the various forms of DX propagation instead of just brief flashes of them, the log pile would probably have been much higher though it was pretty high to begin with! – WIHDQ

Perhaps the above doesn't sum up the contest in your vicinity, or in your opinion, but that's the danger of drawing conclusions in general about an activity that takes different forms in different locales. Perhaps the biggest reason for only two division records being set in 1975 was the lack of reliable 6-meter, long-distance propagation. In the write-up of the 1974 VHF Sweepstakes, the all time division leader box showed the year each record was set, and they were, for the most part, sunspot years. Even our vhf bands' ups and downs are dictated by Old Sol.

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WA6JUD, shown here, is the proud holder of the new Pacific Division record. Carl, a Northern Cal. Contest Club member, used 8 elements on 6, 11 elements each on 144 and 220, and a gain vertical on 450 and four-bay helicoil on 1296, in addition to the inside apparatus visible here.

The 573 entries this year were only slightly fewer than last year's 580. The average top-ten score this year for single ops was about the same as in 1974 and the top multi-op scores were down a little. Two interesting highlights of the 1975 VHF Sweepstakes were a "mini-VHF Sweepstakes," run by the York Radio Club (Illinois) in conjunction with the ARRL Sweepstakes (won by WB9NXB) and an expedition in the dead of winter to Pack Monadnock, New Hampshire, by K1HJC and a non-ham friend. Certificates for this year's Sweepstakes are scheduled for mailing mid-July.

Soapbox

Couldn't find instructions for performing a rain dance for an "E" cloud. — (K9UBF). Would like to see satellite QSOs counted in the SS, on a permanent basis; took time out during the 1975 event to work KL7MF on Oscar 6 for state number 49. — (W3BWU). Murphy bit me on 220 MHz when my receiver converter died the night before the contest. — (WA1QQV). Invested about \$500 in my new 2-meter fm station and made only 23 contacts with it during the contest! — (WB4JGG). We ran multi-op due to the channel 2 TVI problems in this area. — (K9TZZ/9). My first contest; 40-meter inverted "vee" worked fairly well on 6 meters. Thanks to the ssb boys who switched to am for a while. — (WA2WLH). Two-meter fm is alive in Detroit, had 41 contacts. — (WA8EUU). Running only ten watts keeps me out of channel 2. — (WA6JYU). Suggest instead of sending the "check" that stations be required to exchange jokes. — (WA3TGR). Since activity on 220 and 432 are down in January, as compared to June and September, I suggest additional points or credit of some kind be given for activity on those bands in the January SS. — (WA2FZW). Suggest some rule changes to promote this contest among noncontesters; over 90% of my contacts didn't know a contest was in progress. — (K2YRZ/4). Since 1971,



I have worked 50 stations in the St. Louis area, but during the contest worked only one. Local activity in general not nearly as good as during the June QSO Party. — (WB4VLH). I suggest credit for contacts on 2 fm continue, but that greater point credit be given for more difficult "DX" work on 2, even when the contact is within the same section. — (K7ZCB).

TOP TEN				
Sin	Single			
K3IPM	40,622	WB2WIK	41,220	
K8LEE	33,626	WA8NJR	40,850	
W3HQT	30,030	WA8TTS/8	38,052	
W3HMU	26,460	W3KKN	31,062	
W3ZD	25,420	WA2SNA	27,270	
WA3AXV	24,720	WA8PLZ	26,340	
WB2ZVS	24,430	WA2KHL/2	21,866	
K3MWV	22,591	W4BFB	18,444	
WA1NGR	22,144	K2CBA	16,608	
K3ZSG	21,450	K1MNS	13,064	

Winter Mountain-Topping By Myrle H. Morgan Jr., K1HJC

The idea to operate from Pack Monadnock, NH, for the January VHF Sweepstakes originated in early fall of 1974. Frank Holt and I, both avid backpackers and winter hiking enthusiasts, thought that the "expedition" would be enjoyable, interesting and perhaps even unique, since not too many portable stations are heard during January VHF Sweepstakes, especially from the tops of snow-covered mountains. Initial plans called for the design and construction of compact, lightweight transceivers and antennas for six and two meters. Due to unforseen circumstances (procrastination), we found ourselves one week away from contest time with little more preparation than a few pen scratches on paper.

The next few days were spent gathering available gear. My old Heathkit Twoer and vibrator supply were retrieved from a dark corner of the ham shack. W1CMV generously offered us the use of his 9-1/2-element yagi with one element broken during a previous outing on Pack Monadnock. My car battery, mounted in a styrofoam cooler, completed the two-meter station. K1HDO offered us the use of his HA-460 and collapsible fourelement yagi for six meters. Our original intention was to power all equipment with a 12-volt car battery, to eliminate that infernal generator noise and preserve the peace and tranquility of the mountain. But because of the excessive power consumption required by the HA-460, I decided to bring my Tiny Tiger generator out of retirement for use in recharging the battery.

The last two days were spent checking equipment operation at temperatures expected to be encountered on the Pack. The transceivers functioned flawlessly and the generator started on the first pull. (Murphy was waiting for a more opportune time to inflict his infamous law upon us.) Everything was loaded into or onto the cars and we were ready for our assault on the Pack.

Last minute errands delayed our departure until early Saturday afternoon. We arrived at the parking lot at 1:00 PM and began transferring gear from the cars to the sleds, much to the amusement of curious on-lookers out for an afternoon hike. The last thing to be loaded was the 12-volt battery from my car. With everything lashed securely to

the sleds, Frank and I shouldered our packs, attached the sled tow lines to our improvised waist harnesses and began the one and one-half mile hike to the summit. The snow on the road was well packed by the many hikers who enjoyed hiking in the winter-time. After two or three premature stops (the sleds had a tendency to tip over at the slightest provocation, such as moving forward), we lashed the sleds together, side by side, to improve stability. With this problem solved, we proceeded, arriving at the summit at about 3:00 PM, somewhat winded and with very sore legs.

After recording our arrival on film (thanks to camera, tripod and ten-second timer), we unpacked and set up the tent and antennas. An eight-inch piece of plywood was our kitchen table, providing also a flat surface for our stove and transceivers, and accessibility from inside the tent. The generator and auxiliary gasoline container (2-1/2 gal.) were placed fifty feet away, and power lines run to the operating position. I had failed to locate the 12-volt power plug for the HA-460 so the six-meter rig would have to operate from 117 Vc supplied by the generator. So much for peace and tranquility. The sun was setting in the west as we declared ourselves ready for a record-breaking contest week-



end. It was at this very moment, I'm sure, that Murphy decided to make his presence known.

In order to start the generator, the manual priming button on the fuel pump is depressed several times until fuel is observed to be flowing to the carburetor. As you have probably guessed by now, depressing the manual priming button had no effect whatsoever on the gas in the tank. After several futile attempts at getting gas to flow, Frank applied mouth-to-gas-tank resuscitation while I pumped the primer. Eureka! We had gas flow. With choke on full, I firmly pulled the starter cord and the engine came to life - for about ten seconds. Further attempts at starting resulted only in coarse grinding sounds emitted from the recoil starter housing. It was time for major surgery. By the light of the Coleman lantern, we disassembled the starter and made what we hoped would be adequate repairs. Next, the fuel pump was disassembled to check for air leaks. After about one hour, the engine was back together. With two firm pulls, the engine came to life and settled into its noisy but steady beat. We were finally on the air. Time - 7:00 PM.

Our first contact was with W1 FMF in Bedford, NH, on six meters. We had ten more QSOs on six before switching to two meters; generator hash and ignition noise made six-meter reception somewhat less than ideal. I shut down the generator at about 8:15 PM. (Ah! Peace and tranquility again.)

Our first contact on two meters was with W1BXM, who had been looking for us on the band since early afternoon. He ran phone patches for us so we could let friends know that we had arrived and were still in one piece. After signing with Guy, five more contacts were made before breaking for supper at 9:45 PM (our stomachs were protesting — we hadn't eaten a full meal since breakfast). We were severely limited on two meters because of the superregen receiver. Our apologies to the many stations that were calling. Two meters was really hopping.

Up to this time, we were operating outside the tent, squatting by the rig in a somewhat less than comfortable position. The temperature was dropping toward twenty degrees. After preparing the kitchen area for cooking, we retired to the tent and warm sleeping bags. After an enjoyable meal, the Twoer was brought inside, and three more QSOs were made on two meters. We shut down for the night at 11:30 PM. It had been a long day.

We awoke Sunday morning to a bright sunrise and an outside temperature of ten degrees with a moderate wind. The Twoer, which had spent the night outside the tent was completely covered with frost, but came to life at once after a light tap on the vibrator. Activity was sparse on two meters this early in the morning, but we made one contact before crawling out of the tent into the crisp morning air. I decided to start the generator and check six-meter activity. At the same time, the battery would be charging. Unfortunately, Murphy beat me to the generator. The manual priming button was gone; I found it about three feet away. It had broken loose from the pressure diaphragm and the coil spring beneath the button had launched it to its resting place in the snow. Oh well! There was already fuel in the line from the previous night's operation, so maybe it would start anyhow. Guess again! That ominous but familiar coarse grinding sound from the starter housing signaled the end to six-meter operation. The battery still had plenty of energy remaining, so two-meter operation could continue.

By 10:30 AM, two meters was hopping again. Unfortunately, the lack of receiver selectivity made it nearly impossible to work any but the strongest

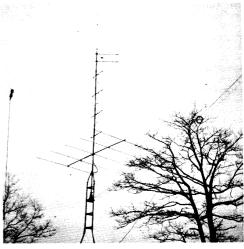


stations and their calls were already in our log. By 11:00 AM, we had accumulated a grand total of twenty-one contacts in three sections. We had to work at least one more section. Hearing that WB2GLQ/1 would be on around noon from Hogback Mountain in Vermont, we left the Twoer in service while disassembling and packing the rest of the gear for the trek down the mountain. At 11:58 AM, we worked WB2GLQ/1 and we had our fourth section. After one more QSO, we shut down for good. By 2:00 PM, the sleds were packed and lashed together. We were ready for the hike down to the parking lot at the base of the mountain. We were assisted during the descent by friends who had hiked up to visit. They arrived just as we were departing. Their assistance was greatly appreciated, as they walked along side the sleds supplying greatly needed stability. We reached the bottom with no further interference from Murphy's law.

Despite our low score, the weekend was a resounding success. A few eyebrows were raised whenever we gave our QTH. "You're where? On the Pack? In January?" We gained valuable experience that can be applied to future winter vhf operations. Frank and I are looking forward to the 29th VHF Sweepstakes with an eye towards compact multi-mode transceivers, easily transportable antennas and, most of all, a more reliable power source.

Again, our thanks to all who contributed equipment, time, advice and moral support.





The antennas and station owner himself, Steve, WB2WIK, at this year's top multi-op.

DIVISION LEADERS

Single Op.	Division	Multiop
КЗІРМ	Atlantic	W3KKN
K9UVJ	Central	K9HMB
WØPAN	Dakota	WØ OHU
WB4JGG	Delta	WB4KMK
K8LEE	Great Lakes	WA8NJR
WB2ŽVS	Hudson	WB2WIK
KØTLM	Midwest	MØJYJ
WA1NGR	New England	K1MNS
K7ZCB	Northwestern	WA7PVÉ
WA6JUD/6*	Pacific	WA6WSW
W4UCH	Roanoke	W4BFB*
WA8GUB/Ø	Rocky Mt.	
K2YRZ/4	Southeastern	
K6YNB/6	Southwestern	
W5UOJ	West Gulf	
VE2ADE	Canadian	

AFFILIATED CLUB SCORES

Club-Score-Entries-Winner			
Mt. Airy VHF RC (Pa.)	564,565	166	K3IPM
Rochester VHF Group (N.Y.)	344,386	127	K2YCO
South Jersey Radio Assoc.	183,882	28	W2BV
Mobile Sixers RC (Pa.)	115,573	41	K3ATL
Suburban ARC (Pa.)	47,200	10	WA3NVO
Potomac Area VHF Society (Va.)	37,002	8	K3DUA
Hampden County RC (Mass.)	35,394	11	W1MTV
York Radio Club (III.)	24,704	11	WB9NXB
Dutchess County VHF Society (N.Y.)	17,153	4	W2AWX
Six Meter Club of Chicago	15,168	13	W9RVG
•			WA9FIH
Gloucester County ARC (N.J.)	13,344	4	WB2BZY
Northern Calif, Contest Club	13,229	3	WA6JUD/6
Scioto Valley ARC (Ohio)	12,738	6	K8SUB
Southern Calif, VHF RC	12,242	5 3	K6YNB/6
West Jersey Radio Amateurs	11,708	3	
Greater Pittsburgh VHF Soc. (Pa.)	8625	5	W3BWU
Rancocas Valley ARA (N.J.)	6934	3	WB2PZF
Dayton ARA (Ohio)	6770	4	WA8BOB
Warren ARA (Ohio)	5254	4	WA8KUR
Dept. of State ARC (D.C.)	3144	4	W4HU
Lake Success RC (N.Y.)	2312	4	K2IJL

VE	Vermont
	WB2GLQ/1 3230- 85- 9-AB
Quebec	K1GYT 448-14-6-AB
VE2ADE 768- 24- 6-1	8
VE2DQE 144- 6- 2-1	Western Massachusetts
VE2AKF 66- 3- 1-	B WA1HHN 10,868-209-16-AB
Ontario	W1MTV 10,608-204-16-AB
	WA1OLK 1886- 41-13-A
VE3AQJ 22- 1- 1-	
	WA1SOF/1 546- 21- 3-AB
1	W1ALL 456- 19- 2-AB
Connecticut	K1EPI 288-12-2-B
	WA1CYK 288- 12- 2-B
WAINGR 22,144-346-22-	
WA1IQJ/1	W1UWX/1 130- 5- 3-B
18,000-302-20-	
WAIIOX (KIZND, opr.)*	W1KK/1 (+W1UWX WA1s ECR
4326-103-11-	ABC LPJ RWU)
W1HDQ* 3036- 67-13-	AB 11.050-213-16-AB
WA1FFO 1518- 33-13-	В
K1TZD 1024- 32- 6-	ABC
WA1LOU 930- 31- 5-	AB 2
W1WEE 700- 25- 4-	B
WA1PVV 576- 18- 6-	AB Eastern New York
WAIGTP(+K1VYU)	WB2OTK 12,512-186-24-AB
8500-171-15-	AB W2AWX 7124-137-16-AB
K1MUJ/1 (K1IFP WA1s	HYN W2CXC/2 5405-118-13-AB
MDQ OBD)	K2BGU 5150-103-15-AB
5060-115-12-	AR WB2YQU 3652- 83-22-AB
	W2KBH 972- 27- 8-B
Eastern Massachusetts	
WA1MSK 7350-175-11-	AB W2IP 300- 10- 5-B
WA1KIR 6960-146-14-	AB K2CBA (+WA2VOB WB2s BYP

*New record.

	5060-115-12-AB		
Eastern	Massachusetts		
WAIMSK	7350-175-11-AB		
WAIKIR	6960-146-14-AB		
WAIMJD	6960-146-14-AB 6200-125-15-B		
WASIOD/I	3492- 97- 8-ABCD		
WAIMKE	3492- 97- 8-ABCD 3287- 87- 9-A		
WIMX (W2Q)	HO, opr.)		
	2840- 71-10-AB		
K1CHY	2698- 71- 9-ABCD		
	2520- 70- 8-ABC		
WAIQQV	2480- 78- 6-AB		
K9AQP/1	1548- 43- 8-ABCD 1232- 44- 4-AB 962- 37- 3-AB		
WA1LXP	1232- 44- 4-AB		
W1100	962- 37- 3-AB		
WAIFCD	840- 28- 5-A		
WAIRGA	696- 29- 2-AB		
K1VUT	650- 25- 3-AB		
WIAAR	313- 12- 3-B		
WILMU	650- 25- 3-AB 313- 12- 3-B 312- 12- 2-B		
WIJAA	225- 8-5-D		
WIGXT	168- 7- 2-CD		
New Hampshire			
WAIOUB	7992-150-17-ABD 7410-144-16-ABCD		
WIEUJ	7410-144-16-ABCD		
WIFMF	4313-114- 9-ABCD		

WIGXT	168-	7-	2-CD	
New	Hamps	hire		
WAIOUB	7992-1	50-	17-ABD	
WIEUJ	7410-1	44-	16-ABCD	
			9-ABCD	
	2622-			
WA1FSZ				
	2136-			
KIMNS (+KI	s HZN I	۲LX	W8GIM)	
1	3,064-2	84-	13-ABD	
WIJJO (KI	CYP	VC	F WPM	
WIKGZ	WAITO	B)		
8702-229- 9-ABC				
K1HJC/1 (+F. Holt)				
,	686-	25-	4-AB	
Rhode Island				

1600- 40-10-B

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K2RIW	680- 20- 7-D
WA2SRH	
	572- 22- 3-B
W2NBI	510- 18- 5-B
W2MI	420- 15- 4-B
WA2TLM	286- 11- 3-B
WA2EXP	156- 6- 3-B
Nort	hern New Jersey
WB2ZVS	24,430-349-25-AB
WA2FZW	10,920-210-16-ABD
WB2CUT	5500-126-12-B
WA2CWA	4224- 96-12-A
WA2GEZ	4032- 96-11-B
WA2VYA	3276- 91- 8-AB
WA2WSR	2628- 73- 8-B
WA2FCW	2380- 70- 7-AB
W2CVW	2220- 56-10-ABD
WA2YGR	2091- 63- 7-B
K2RLW	1316- 48- 4-B

Eastern New York

WB2OTK 12,512-186-24-AB
W2CXC/2 7124-137-16-AB
W2CXC/2 5405-118-13-AB
WB2YQU 3652-83-22-AB
W2KBH 972-27-8-B
WA2TQO 448-14-6-A
W21P 300-10-5-B
K2CBA (+WA2YOB WB2s BYP
DNE) 16,608-261-22WA3BI M (+WA1PDK K2s IOM

WA2BLM (+WA1PDK K2s IOM OYG WA2s LOA ZPD WB2s FZE OZA SGN) 13,000-250-16-ABC W2AIR (WA2s LQP THT WA7VYQ)

WA2VFA K2OVS WA2EUS K2IJL

1395- 47- 5-B N.Y.C.-L.I.

7888-136-19-B 5346- 99-17-ABD 896- 28- 6-BD 810- 27- 5-BD

W2ODV (WA	A 2 FILL one)
112001 (117	121 OI, Opi.)
WASCENIA	1292- 38- 7-B 1092- 39- 4-B
WAZGEN/Z	1092- 39- 4-B 1003- 30- 7-AB
WAZNII	840- 30- 4-B 540- 18- 5-B 234- 9- 1-B 182- 7- 3-AB K2OWR WB2s CST
WA2ALD	540- 18- 5-B
WB2VLC	234- 9- 1-B
WA2FAX	1·82- 7- 3-AB
WB2WIK (+	K2OWR WB2s CST
UID , ,	41 220 576 26 AB
WASCNIA	41,220-576-26-AB (K2BJG WA2s AJS WB2s BEA LPX QEA
NDV CLD	WEST DEATH AND COL
NEW SEK	WB28 BEA LPX.QEA
QOQ RIU)
	27,270-505-17-ABCD 2 (WA2UDT WB2s P VPO)
WA2KHL/	2 (WA2UDT WB2s
LDE LYI	P VPO)
	21,866-377-19-ABD
South	nern New Jersey
W2EIF	21,431-370-19-ABCDE
W2RV	1 8 000-300-20-AB
WESMILL	17.458 301-10-AB
WAZEMD	17,436-301-17-ABCD
WAZEMD	17,458-301-19-AB 17,361-322-17-ABCD 15,903-294-17-ABC 11,700-234-15-AB
WZPAU	15,903-294-17-ABC
W2REB	11,700-234-15-AB
W2EA	11,484-261-12-AB
WB2BNE	10,764-207-16-AB
W2FYS	10,660-205-16-AB
WA2KOK	8418-183-13-AB
WAEPA	7938-189-11-AB
WD1D7V	6660-222- 5-AB
WDZDZI	6600-222- 3-AD
W 205D	0510-155-11-AD
WB2NPY	6080-190- 6-AB
W2ORA	6000-200- 5-AB
W2EKB	5760-180- 6-AB
W2GIA	5460-130-11-B
WA2YSW	4902-129- 9-AB
WA2PBZ	4312-154- 4-AB
WR2OSO	4200-150- 4-AB
WATO	4160 130 6 AB
WEIGH	2600 100 8 AB
WBZSFJ	3600-100- 6-70
WAZEFV	3444-123- 4-A
WB2PZF	2800-100- 4-A
W2FGY	2688- 96- 4-B
WA2OZO	2626-101- 3-AB
WB2EFL	2528- 79- 6-AB
WR2WRP	2496- 78- 6-AB
K2EVW	2464- 56-12-B
Walte	2304- 96- 2-AB
Wabay	2002. 77. 3.ABC
WDOWYV	1050 75 3 B
WDZWAN	1930- 75- 3-6
WZFDJ	1800- 73- 2-A
WAZSEA	1716- 66- 3-AB
WB2JJN	1508- 58- 3-A
WB2VLD	1368- 57- 2-AB
W2HX	1300- 50- 3-AB
W2FBF	768- 32- 2-A
WA2HJF	650- 25- 3-B
K2IOC	630- 21- 5-B
WaHRE	360. 15. 2-AR
WALDE	252 Q. 4.ABC
WZAAU	234 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
M.ZZDR	216- 9- 2-B
WB2NPY/2	44- 2- 1-B
W2JUG/2	(K2s QIJ QPN SQS
W2EWQ	WA2s HJF IVO LUR
WMK WE	32s ANT EXQ IOE LBT
LCC LL	17,361-322-17-ABCD 15,903-294-17-ABCD 11,700-234-15-AB 11,484-261-12-AB 10,764-207-16-AB 10,764-207-16-AB 10,660-205-16-AB 8418-18-31-3-AB 7938-188-11-AB 6660-222-5-AB 6510-155-11-AB 6600-200-5-AB 5700-180-6-AB 6700-200-5-AB 5700-180-6-AB 5700-78-6-AB 5700-
	7100-233- 0-ADD

	rn New York
K2YCO	14,508-279-16-AB
WA2TEY K2CEH WA2ZNC W2CNS	9476-206-13-AB
K2CEH	8944-172-16-B
WA2ZNC	8944-172-16-B 7378-217- 7-AB
W2CNS	6760-169-10-AB
WB2JFL	6256-184- 7-AB 5724-159- 8-AB 5700-150- 9-AB
WA2THS	5724 150 9 AB
WAZIIIS	5724-139- 0-AD
K2LDU W2OWF	5/00-130- 9-AB
WZOWF	55/6-164- /-AB
WB2ZFS K2RZI	5550-185- 5-AB
K2RZI	5700-150- 9-AB 5576-164- 7-AB 5550-185- 5-AB 5400-180- 5-AB 5160-172- 5-AB 4794-141- 7-AB 4320-144- 5-AB 4147-160- 3-AB 4074-146- 4-AB 3960-180- 1-AB 3888-162- 2-AB 3864-138- 4-AB
WA2KND WB2YHD	5160-172- 5-AB
WB2YHD	4794-141- 7-AB
W2RIS	4320-144- 5-AB
W2RIS WB2RJB WA2AIW W2EQW W2MPM K2RHS WA2YEK WB2JRX WB2JRX	4147-160- 3-AB
WA2AIW	4074-146- 4-AB
W2FOW	3960-180- 1-AB
W2MPM	3888-162- 2-AB
KARHS	3864-138- 4-AB
WATER	3864 138 4 AB
WDAIDY	3744 144 3 AB
WDZJKA	3/44-144- 3-AD
WB2SNA	36 /4-16 /- 1-AB
WB2VPK	3864-138- 4-AB 3744-144- 3-AB 3674-167- 1-AB 3432-143- 2-B
W2ECH	3416-122- 4-AB
W2DUC	3384-141- 2-AB
K2WW	
WB2SLM	3318- 70-11-R
K2OEQ	3310- 77-11-D
WASVTV	3240 136 2 AB
WA2YTK	3240-133- 2-AB
WBZVSE	3108-132- 2-B
WB2VSE WA2QAU	3144-131- 2-AB
W2SNI	3120-130- 2-AB
W2VVG	3318-79-11-B 3264-136- 2-AB 3240-135- 2-AB 3168-132- 2-B 3144-131- 2-AB 3120-130- 2-AB 3120-104- 4-AB
WAZQAU W2SNI W2VVG WA2CER	3120-104. 4-AB 3048-127-2-B 3102-141-1-AB 3048-127-2-B 3014-137-1-AB 2860-130-1-AB 2860-130-1-AB 2770-126-1-AB 2770-126-1-AB 2760-115-2-AB 2710-126-1-AB 2760-115-2-AB 2664-111-2-AB 266
K2YAH	3048-127- 2-B
W2QY WB2YJH WB2GGM WA2TJS	3024-126- 2-AB
WB2YJH	3016-116- 3-AB
WB2GGM	3014-137- 1-AB
WA2TJS	2860-130- 1-AB
WA2TJS WB2WPA WA2EKN WA2JFM K2JJT K2YMM W2EMY WB2FDT	2860-130- 1-AB
WA2EKN	2844-119- 2-B
WA2JFM	2816-128- 1-AB
K2JJT	2772-126- 1-AB
K2YMM	2760-115- 2-AB
W2FMY	2750-125- 1-AB
WRZEDT	2712-113- 2-AB
WBOKWZ	2664 111 2 AB
WDZKWZ	2664 111 2 AD
WB2QVH WB2NFY	2604-111- 2-AD
	2624- 82- 6-A
W2DBU WB2NOJ WB2HDK	2592-108- 2-B
WB2NOJ	2552-116- 1-AB
WB2HDK	2508-114- 1-B
W2ECM K2UXF W2ZZS	2496-104- 2-AB
K2UXF	2448-102- 2-AB
W2ZZS	2431-111- 1-B
	2398-109- 1-AB
WB2LAD	2354-107-11-AB
W2SFA	2352- 98- 2-AB
W2SFA K2GMZ	2332-106- 1-AB
K2GMZ W7JRL/2	2332-106- 1-B
	2288-104- 1-AB
WA2NGH WA2SRY/2 K2OIU	2288-104- 1-B
WA2SRY/2	2288-104- 1-B
K2OIU	2266-103- 1-B
WA2YPT	2222-101- I-AB
WA2YPT WB2MDB	2624-82.6-A 2592-108-2-B 2592-108-2-B 2592-116-1-AB 2598-114-1-B 2498-109-2-AB 2448-102-2-AB 2311-1-1-AB 2398-109-1-AB 2332-106-1-AB 2332-106-1-AB 2332-106-1-AB 2332-106-1-AB 2288-104-1-AB 2288-104-1-AB 2288-104-1-B 2286-103-1-B 2200-100-1-B

Western New York

W1CPC

			No. at
K2SQI 2156- 98- 1-AB	K3ACR 12,120-303-10-ABC	K3MTK (WA3s PUL TVZ)	Northern Texas
WB2JMX 2134- 97- 1-B WB2WQJ 2106- 81- 3-B	WA3PUL 10,780-245-12-ABD W31ZU 10,258-223-13-ABC	4556-134- 7-AB	W5UOJ 2262- 87- 3-AB WB5FCR 176- 8- 1-A
K2RUE/2 2068- 94- 1-B	W3LUW (WA3PUL, opr.)	W3LP (W3s GFN JUZ) 4312-154- 4-AB	Southern Texas
WB2HTH 1958- 89- 1-B	9760-244-10-AB	WA3SPR (+K3DLS)	WA5ZNY 900- 30- 5-AB
W2RBT 1920- 80- 2-A WB2AMC 1826- 83- 1-AB	W3ELX 9280-232-10-AB W3AJF 8694-207-11-ABC	3528-126- 4-ABC	K5PFL 66- 3- 1-AB
W2SRP 1824- 76- 2-B	K3GAS 8424-234- 8-ABCD	WA3HVL (+K3DLS) 2886-111- 3-AB	6 .
WB2MCP 1800- 75- 2-AB	W3HK 7848-218- 8-AB	Maryland-D.C.	
WA3GVQ/2 1740- 73- 2-B WA2YSG 1694- 77- 1-AB	K3DMA 7350-245- 5-ABC K3KTY 7220-190- 9-ABC	K3DUA 11,550-231-15-ABC	East Bay
W2BLU 1680- 70- 2-B	WA3OVH 6838-263- 3-AB	W3KMV 8164-158-16-AB	WA6VEF 4004-154- 3- B K6BE 240- 10- 2- A
LU7AEC/W2	W3BBC 6720-160-11-AB	WA3NZL 6604-127-16-AB	K6BE 240- 10- 2- A W6RGG 22- 1- 1- B
1628- 74- 1-B	W3ETB 6660-222- 5-ABC	W3LUL 4056- 79-16-B K3AAF 3950- 79-15-ABCD	
WA2SDK/2 1606- 73- 1-B WA2SSU 1584- 72- 1-B	W3CXU 6657-159-11-ABC K3MXM 6592-206- 6-ABC	K3MWQ 3542- 77-13-AB	Los Angeles
W2YBK 1562- 71- 1-AB	WA3IEM 6426-154-11-AB	WA3LND 2442- 56-12-B	WB6IMV 864- 27- 6-AB
WB2KLD 1480- 37-10-AB	K3EPB 6422-169- 9-ABC	W3HVM 1584- 66- 2-B WA3NNZ 1580- 41-10-B	WB6YVP 650- 25- 3-AB K6BPC (WB6IMV, opr.)
WA2BQA 1474- 67- 1-AB WB2FZB 1452- 66- 1-B	W3GEW 6210-207- 5-ABC K3IGX 6188-221- 4-ABC	WA3NNZ 1580- 41-10-B WA3EOQ 1216- 32- 9-B	448- 16- 4-AB
K2ZCU 1430- 65- 1-B	K3IGX 6188-221- 4-ABC W3CJU 6176-193- 6-ABCD	WA3JSZ 1080- 45- 2-B	WB6JCD/6 (+W6PJM WB6WWU
W2GUY 1430- 65- 1-B	WA3KPS 5792-181- 6-B	WA3OYW 910- 35- 3-AB	P. Jenzen) 2055- 69- 5-ABC
WA2BEH 1392- 58- 2-AB	W3CCX 5520-184- 5-ABC	K3ENN 864- 36- 2-ABC W3OTC 812- 29- 4-AB	Orange
WB2JGV 1344- 48- 4-AB WA2RYT 1342- 61- 1-AB	WA3JMM 5516-197- 4-AB W3YXF 5510-145- 9-ABC	W3HB 720- 24- 5-B	K6YNB/6 8930-235- 9-ABCD
WB2DPT 1342- 61- 1-B	WA3IGY 5440-160- 7-AB	W3FYT/3 648- 27- 2-B	WB6IDK/6 1350- 45- 5-ABCD
WB2EEU 1342- 61- 1-B	W3AWA (WA3JMM, opr.)	K3AKR 600- 25- 2-AB	WB6IMV 864- 27- 6-AB
WA2GCX 1320- 60- 1-B	5320-190- 4-AB	W3MSN 546- 21- 3-ABC W3DOS (K3KWJ, opr.)	WB6YVP 650-25-3-AB K6BPC (WB6IMV, opr.)
WB2NJE 1320- 60- 1-B WA2MBW 1298- 59- 1-B	WA3AQA 5278-203- 3-AB W3BRU 5270-155- 7-AB	408- 18- 2-B	448- 16- 4-AB
WB2HJN 1298- 59- 1-A	WA3NUG 5206-137- 9-AB	W3CJK/3 (+K3ARN WA3s AMH	Santa Clara Valley
K2UCI 1276- 58- 1-B	WA3DJF 5200-200- 3-AB	CGU K. Corbin M. Staley)	WA6JUD/6
W2ZHB 1254- 57- 1-B WA2YYZ 1254- 57- 1-B	K3GOZ 5096-196- 3-AB K3EOD 4950-165- 5-ABC	9175-184-15-ABCD WA3SXX/3 (+WA3s OLD SEE D.	12,255-323- 9-ABCDI
W2CJQ 1176- 49- 2-AB	WA3IDO 4144-148- 4-ABC	Astrab) 1700- 50- 7-AB	WB6KBZ 8379-221- 9-ABCD K6GSS 8136-226- 8-ABCD
K2LCS 1144- 52- 1-AB	K3MUA/3 4125-138- 5-AB	. ,	K6GSS 8136-226- 8-ABCD WA6UAM 3600-100- 8-ABCDI
W2EBF 1144- 52- 1-B WA2DRC 1144- 52- 1-A	W3FQD 4064-127- 6-ABC K3YFD 4020-134- 5-AB	Western Pennsylvania	WB6KAP 3420-114- 5-ABCD
K2EAW 1122- 51- 1-B	K3YFD 4020-134- 5-AB K3HIN 3808-136- 4-ABC	W3BWU 3276- 78-11-AB	WB6FFC 3400-100- 7-AB
WA2HTR/2 1078- 49- 1-B	K3NMN 3724-133- 4-AB	W3ANX 2667- 64-11-B	W6OCP 2432- 76- 6-ABC WA6HAN 1440- 48- 5-B
WA2NFY 1056- 48- 1-B	WA3HLS 3562-140- 3-AB	W3OMY 2354- 54-12-BD WA3ANO 1944- 55- 8-AB	WB6JNN/6 650- 25- 3-B
WA2IJC 946- 43 1-AB WA2GHQ 902- 41- 1-B	W3CLT 3400-100- 7-AC K3VYG 3380-130- 3-A	W3IOH 1890- 45-11-AB	W6PRI 408- 17- 2-B
W2UAD 858- 39- 1-B	WA3EPS 3360-120- 4-AB	W3DJM 644- 23- 4-A	K6GI 22- 1- 1-B WA6WSW/6 (WB6s HWO RGR
WB2ZJY 836- 38- 1-A	W3NSI 3354-129- 3-BC	WA3SDK 264- 11- 2-B W3FYV (+WA3s SZX WIK WA8s	WA6WSW/6 (WB6s HWO RGR WLE) 4448-139- 6-ABCD
WB2LYH 792- 36- 1-B	WA3RJM 3300- 75-12-A W6AB/6 3154- 86-19-AB	PDG SRB)	1110 137 G-ABCD
WA2DFK/2 768- 32- 2-B WA2MKX 726- 33- 1-B	WA3PNW 2822- 83- 7-A	4120-103-10-AB	San Diego
WA2WLH 720- 30- 2-AB	W3NHX 2808-108- 3-AB	WASTGR (+WASUAT)	WB6NMT 1840- 58- 6-ABCD
WA2YRH 704- 32- 1-AB	WA3JSR 2808-108- 3-AB WA3LGC 2808-108- 3-AB	871- 35- 3-AB	San Francisco
W2ICE 660- 30- 1-AB WB2DNW 660- 30- 1-AB	WA3MRV (K3ATL, opr.)	4	WB6QVW/6 3390-113- 5-AB
W2EOJ 624- 26- 2-A	2700- 90- 5-AB	Georgia	W6OAT/6 952- 34- 4-B
WB2PSA 594- 27-11-B	W3QXV 2604- 93- 4-A WA3NFV 2568-107- 2-ABD	WB4RUA 240- 10- 2-AB	WA6JYU 810- 27- 5-AB W6FAW 266- 10- 4-AB
WA2ECD 374- 17- 1-A WA2AQW 352- 16- 1-A	WA3JNF 2520- 90- 4-AB	Kentucky	W6KHI/6 72- ;3- 2-B
WB2LIN 330- 15- 1-B	WA3NQY 2212- 79- 4-A	WB4VLH (+WB9JFT)	San Joaquin Valley
W2WGL 224- 7- 6-B	K3BOY 2002- 77- 3-AB W3ZOR 1872- 78- 2-A	224- 8- 4-B	WA6OSX/6 5066-149- 7-ABD
WA2DFF 132- 6- 1-B W2UTH (+K2ZFV WA2RHW)	WA3OUC 1776- 74- 2-A	North Carolina	W6YKS 2546- 67- 9-AB
8694-207-11-AB	WA3MRU 1736- 62- 4-A	K4LWZ 5050-103-15-AB	K6ZMW 1634- 44- 9-AE K6QHC 1080- 27-10-A
W2OW (WA2s IKO MSQ RBJ	WA3UOC 1680- 60- 4-B K3GZT 1586- 61- 3-AB	WA4MVI 4065-136- 5-AB	Sacramento Valley
WB2s LNX RBA WN2s SGS	K3DLS/3 1560- 60- 3-AC	WB4MXC 812- 29- 4-AB WB4LDO 728- 26- 4-B	WB6NKO 1904- 56- 7-ABD
YCW) 7450-149-15-AB K2MPE (+WB2TGU)	WA3TUL 1512- 63- 2-A	W4BFB (K4s BWS COF GHR IZE	WA6UOS 1092- 39- 4-B
6930-165-11-AB	WA3WAK 1368- 57- 2-A	LVV ROM WA4s ICM IPQ VCC	7
WA2MQX (+WA2AGE WB2EEU)	WA3NAO 1326- 51- 3-AB WA3NBO 1326- 51- 3-AB	WB4s BZS CCW IZP YFC YFD)	7
4536-162- 4-B WA2EKR (multiop)	WA3TDR/3 1300- 50- 3-A	18,444-318-19-AB W4ZZ (+K4s MIJ MOU)	Oregon
4248-177- 2-AB	K3IDM 1274- 50- 3-A	3944-116- 7-AB	K7ZCB 1008- 42- 2-ABC
WA2EJY (WA2EKR WN2UTM C.	W2GGB 1272- 53- 2-B K3VEQ 1248- 48- 3-BC	WA4WZQ (+WA4WZP)	Washington
Holdsworth G. Holdsworth)	WA3ITC 1176- 42- 4-A	1836- 51- 8-AB	WA7PVE (+J. Baskett) 1056- 44- 2-B
4224-176- 2-AB	WA3DZT 1170- 45- 3-AB	Northern Florida WB4BSZ 728- 26- 4-AB	1030- 44- 2-B
WB2KUR (+WA2NZO) 3432-143- 2-AB	WA3QYE 1120- 40- 4-AB K3KEL 969- 26- 9-AB	WB4BSZ 728- 26- 4-AB W4CSS 140- 5- 4-A	8
WA2ROC (+K2RKW WA2TOI	W3KXH 960- 40- 2-A		Michigan
WB2FBP)	WA3KOL 884- 34- 3-A	South Carolina	WB8BKC 4862-143- 7-AB
1872- 52- 8-AB K2JD/2 (WA2EKR C. Holds-	W3HKZ 840- 35- 2-AB	K4GMJ 780- 26- 5-AB WB4NBK 130- 5- 3-AB	WB8IYA 3876-102- 9-A WA8EUU 2624- 82- 6-AB
worth) 1672- 76- 1-AB	WA3BTE 832- 32- 3-AB		WB8TGY 1248- 39- 6-A
K2JIQ (+WB2FJH)	WA3VJJ (WA2BCY, opr.) 832- 32- 3-B	Southern Florida	WB8EIY 990- 33- 5-AB
1178- 31- 9-AB	WA3KEF 806- 31- 3-AB	K2YRZ/4 2916- 81- 8-AB	WA8HTL 986- 29- 7-B WB8QXB/8 689- 27- 3-B
	W3KM 768- 32- 2-B	Tannassa	WB8QXB/8 68927- 3-B W8YDK/8 (WA8s TMP WOQ YUZ
	WA3TEM 768- 32- 2-ABC WA3PSA 744- 31- 2-A	Tennessee WB4JGG 3975-81-15-AB	WB8s LCN OTA)
<i>3</i>	WA3IEL 484- 22- 1-AB	WB4KMK (WA4DFV WB4s CXC	4500-125- 8-AB
3	W3QB 456- 19- 2-BC	LSK) 6120-170- 8-AB	Ohio
Delaware	WA3EPS/3 264- 11- 2-B WA3QZJ 264- 11- 2-A		K8LEE 33,626-391-33-AB
WA3QPX 8684-167-16-ABCD	WA3RTC 264- 11- 2-A	Virginia	WB8AMI 7272-202- 8-ABD
W3CGV 2584- 68- 9-ABC WA3MGR 1118- 43- 3-AB	WA3QZF/3 198 9 1-A	W4UCH 7176-138-16-ABCD W4DFK 5400-108-15-B	K8SUB 5664-118-14-AB
WA3MGR 1118- 43- 3-AB K3URP 504- 18- 4-A	K3ZKO 192- 8- 2-B K3OBY 154- 7- 1-AC	WB4YFT 3060- 85- 8-ABC	WA8STX 5304-156- 7-AB WA8HPY 4968-108-13-AB
	W3OR 132- 6- 1-A	WA4SIQ 2926- 77- 9-AB	WA8BOB 3510- 98- 8-AB
Eastern Pennsylvania	W3PST 132- 6- 1-B	K4LHB 2888- 76- 9-ABC K4FTO 1680- 42-10-B	WB8GZL 3400-100- 7-AB
K3IPM 40,622-535-28-ABCD 30,030-455-23-ABCD	W3LRH 110- 5- 1-A K3MUA 66- 3- 1-A	W4HU 1416- 59- 2-B	WA8MLV 2560- 81- 6-AB WB8GFY 2278- 67- 7-AB
W3HMU 26,460-441-20-ABCD	WA3KOL/3 66- 3- 1-A	K4MSG 868- 31- 4-AB	WB8PAT 2040- 60- 7-AB
W3ZD 25.420-410-21-ABCD	WA3TEM/3 66- 3- 1-B	KØPIV/4 744- 31- 2-AB K4LSD 240- 10- 2-B	W8ZOF 1984- 62- 6-AB
WA3AXV 24,720-412-20-ABCD K3MWV 22,591-390-19-ABD	WA3QZF (K3ATL, opr.) 44- 2- 1-AB	K4LSD 240- 10- 2-B WA4EPI 48- 2- 2-A	W8NKW 1976- 77- 3-B K8BPB 1651- 64- 3-AB
K3ZSG 21,450-359-20-ABCD	44- 2- 1-0B	WB2LAI/4 (+WB2PRI WA4s DOX	K8CKY 1170- 39- 5-A
W3HFY 18,044-347-16-ABCD	W3KKN (+K3KMN)	GPM)	WASRCN 1120- 35- 6-A
K3ATL 17,580-293-20-AB K3IUV 16,536-319-16-ABCD	31,062-501-21-ABCD WA3FOF (+K3DLS WN3YLZ)	4978-131- 9-AB K4ZKU (+WB4RDT)	WB8NTY 1056- 48- 1-B WA8TYF 900- 60- 5-AB
WA3UNG 15,360-320-14-AB	9320-233-10-AB	3000- 75-10-AB	WB8PLP 840- 28- 5-A
WA3NGK 14,490-315-13-ABCD	WA3MPO (+WA3s IFL OJB OTI)		WA8KUR 744- 31- 2-B
K3BPP 13,508-307-12-ABCD W3CL 13,440-320-11-ABC	8184-186-12-AB W3SDZ (+WA3s WID WLU)	. 5	WB8BBP 650- 25- 3-AB WA8LXJ 648- 27- 2-A
WA3NVO 13,068-297-12-ABCD	7986-121-23-AB	Louisiana	WA8KAQ 504- 21- 2-AB
WA3JUF 12,650-253-15-ABCD	WA3KFT (+WA3TDR)	WASUUD 425- 13- 7-A	K8RXD 352- 11- 6-B
K3J-JZ 12,200-305-10-ABCD	7974-222- 8-AB	WA5QBX 308- 11- 4-AB	WB8GZM 242- 11- 1-AB

W8JRN 220- 10- 1-B K8WYY 198- 9- 1-B K8BXT 192- 8- 2-B WA8NJR (+WB8IGY Barb Rose)	WA9NRI K9DTB W9DJZ WB9IPH	3600-120- 5-AB 3296-103- 6-AB 3104- 97- 6-B 2716- 97- 4-AB	WA9ZFR 44- 2- 1-B K9HMB (+WB9CAS) 11,960-230-16-ABCD W9BGX (WA98 KIO ULU)	WB9OQD 78- 3- 3-B W9KNH 72- 3- 2-A
40,850-475-33-AB	W9MLU	2280- 76- 5-AB	7191-212- 7-AB	Ø
WASTTS/8 (+K8s ETI MMM	K9JFN/9	1992- 83- 2-AB	K9TZZ/9 (WA9s NFO PQY WB9s	Colorado
WB8s JNS KRY)	W9IVI	1650- 55- 5-B	GEN IWN IWO JRA JŠR KLW	WA8GUB/Ø 22- 1-1-A
38,052-456-32-AB	W9DBJ	1482- 57- 3-AB	KXI Curt)	KØSQG 22- 1- 1-C
WASPLZ (K8s DCM TQK W8s	K9KQR WA9KAN	1360- 40- 7-B	6876-191- 8-ABCD	Kansas
DJY KPY WA8s DZU LTA MSF	K9ZWU	1232- 56- 1-B 1210- 55- 1-ABD	K9ONA/9 (K9s ZWU ZWV)	WBØBBC 448- 32- 4-AB
SVV WB8s MVR ONY QQC	K9ZWV	1210- 55- 1-ABD	726- 33- 1-AB	WØJYJ (+WBØEYS)
QUC YAB K9DZK G3PAC)	WA9OHU	1104- 46- 2-B	Indiana	336- 14- 2-AB
26,340-439-20-AB	WB9KHR	1100- 50- 1-A	K9UVJ 6840-171-10-ABCD	
West Virginia	WB9LWI	696- 29- 2-B	K9UBF 4862-143- 7-ABD	Nebraska
WA8UUY/8 240-10-2-B	WA9UQO	574- 21- 4-B	WA9MEM 2340- 78- 5-A	WAMRH 480- 16- 5-A
WA8DQR/8 (+W8JJG)	W9KDŘ	546- 21- 3-AB	WB9GMC 1950- 65- 5-A	WØEKB 300- 10- 5-A
5040-120-11-AB	W9WIC	462- 21- 1-B	WB9CEP 1596- 57- 4-B	Minnesota
•	K9EFU	336- 14- 2-AB	K9EFX 1440- 48- 5-B	WØPAN 44- 2- 1-B
9	W9KBU	308- 14-14-B	W9CGI 1200- 40- 5-A	WØOHU (+WAØQWY)
Illinois	W9WIC/9 W9USJ	264- 12- 1-B	K9UNM 240- 8- 5-B WB9JDL 108- 5- 2-B	300- 10- 5-BC
WA9LEF 4420-130- 7-AB	K9DKI	242- 11- 1-B 198- 9- 1-AB	WB9JDL 108- 5- 2-B WB8HUC/9 (WB8s GEU GEX	Missouri
WB9NXB 4394-169- 3-AB	W9ZYL	198- 9- 1-AB	GEY GFA)	KØTLM 1904- 60- 6-AB
W9RVG 3750-125- 5-AB	K9ZWU/9	154- 7- 1-B	2516- 74- 7-AB	Check Logs
WA9FIH 3750-125- 5-ABD	WA9FIH/9	110- 5- 1-B	2316- /4- /-AB	CHECK LOSS
WA9RIJ 3660-122- 5-AB	K9DNW '	66- 3- 1-B	Wisconsin	W2HF K4EJQ Q5T-