

By **Billy Lunt, KR1R**
 Contest Manager
 and
Bev Fernandez, N1NAV
 Assistant Contest Manager

The 1997 ARRL September VHF QSO Party Results

When the clock strikes 1800 UTC on Saturday of a contest weekend, and Tom appears at the controls of his VHF/UHF radio station, he is psyched up, geared up, and ready to roll. Nothing stops Tom. He is a superstar in VHF contesting. The Tom we are talking about is Tom Whitted, WA8WZG, who just completed the VHF grand slam—a four bagger! Tom finished first place in *all four major ARRL VHF/UHF contests in 1997*. Great going Tom! It all started in the January VHF Sweepstakes: first place, single operator. June VHF QSO Party: winner

WA8WZG. August UHF Contest: again WA8WZG tops the list. The September VHF QSO Party puts the icing on the cake as Tom finishes in single operator first place. Tom

operates from his superb Port Clinton, Ohio location in EN81, overlooking Lake Erie. He really knows how to put the microwave bands to his advantage. He works all bands from

Top Ten

Single Operator	QRP Portable	Multioperator	Limited Multioperator	Rover	
WA8WZG 394,744	K9PW 171,952	W2SZ/1 903,856	W4IY 315,096	AB4CR 253,445	
WA2TEO 329,732	W1VT 99,064	K8GP 800,394	W4NH 240,322	ND3F 135,051	
K1RZ 258,128	WR3I 36,080	K3MQH 669,750	NC1I 224,353	KA8IFC 114,405	
KE8FD 213,428	N8KWX 21,096	K3YTL 619,840	N0QJM 183,675	W2FU 106,964	
WA2FGK 196,910	KK6KE 21,060	N2JQR 378,561	KB2DMK 140,506	N4STK 100,940	
(K2LNS,op)	VE2PIJ 8,127	K2TXB 373,641	WB1GQR 133,866	W3EKT 96,051	
K1DU 181,712	KC6TMB 7,888	W0ZQ 223,288	N6RMJ 117,600	K7XC 77,265	
K2UOP/8 137,592	N0JK 6,987	K1WHS 220,896	WB9ERB 110,466	N1MJD 50,687	
W3OR 129,540	N8A 5,586	N2WM 180,144	KR4IN 98,787	N0BEL 47,971	
WB2DNE 127,303	(N8XA,op)	W0UC/9 132,770	W1QK 88,580	KA2CKI 45,448	
WA0BWE 118,080	KF6FJG 4,600				



Jon, N2SZA, says, "Just one more contact. I know I can make it through just one more contact."



Jack, AB4CR, ponders the situation, "Now let's see. Should it go this way, or that way?" With a first-place rover finish, they must have had the antenna pointed in the right direction.

A First Time Experience

By **John Toscano, KB0ZEV**

The September VHF QSO Party was my very first Amateur Radio contest, and I had a great deal of fun. I didn't originally plan to enter the contest because I was quite busy that weekend. Besides, what could I accomplish with an FM-only station? But a friend of mine, Phil, KB0NES, was persistent. He wanted me to get on the air just long enough to give him a contact point. Finally, I relented.

I gave Phil a call on 146.55 MHz and he replied right away. His signal was weak, but clear. We tried 446.0 MHz next, but neither of us heard the other. I went back to 146.55 to tell him of the failure, and to wish him well in the rest of the contest. I wasn't quite prepared for the call that came immediately afterward from a total stranger. Okay, I'll give him a contact point, too. Then there was another call, and another. The next thing I knew, I was in too deep to quit!

I had no expectations of a first-place finish, but the band conditions were so hot during the weekend that I was able to make plenty of contacts. I accumulated a score that I consider to be quite respectable. I was pleasantly surprised by the incredibly positive attitudes I encountered on the air during the contest. The phrases "please," "thank you," "good luck," and "have fun" were abundantly heard. Conversely, when I became overwhelmed by trying to keep track of all my contacts, I started making dups. My errors were always pointed out politely, in spite of the fact that I never mentioned that this was my first contest and that I was a total neophyte to the game.

With my modest FM station I was able to make contacts with nearby Minnesota, but my range also extended to Nebraska, Iowa, Wisconsin and Michigan. My farthest contact was on 2 meters with a station in EN64. He came booming in with an extraordinarily clear signal, even though he was running less power than I was! Stations located between us, in Wisconsin, remarked that they had their antennas pointed at Minneapolis and heard his signal coming in on the back-sides of their beams.

My equipment consisted of a Yaesu FT-5100 dual-band mobile rig, powered by an Astron RS-20M power supply, feeding about 40 feet of Belden 9913 coax, to a Cushcraft ARX-270N dual-band omnidirectional vertical antenna. The antenna was mounted on my roof at a height of 25 feet. I also used an ICOM IC-3AT hand-held transceiver, feeding a Hustler CG-220 mobile antenna. I guess I must have done a pretty job in modifying that mobile antenna. I made four contacts on 223.50 MHz which gave me four more grid squares. Actually, several of those contacts were only successful because of the equipment and expertise of the operators on the other end. I was gratified that experienced operators would waste 5 to 10 minutes of precious contest time to dig my 1.25-meter signal out of the noise.

My first Amateur Radio contest far exceeded my expectations, and it was a terrifically uplifting experience. I plan to encourage more ham friends to give it a shot during the January VHF Sweepstakes!

6 meters through 10 GHz.

The September VHF QSO Party win wasn't as easily done as it may appear. Jeff, WA2TEO, was right on Tom's heels in second place. Jeff is no one to take lightly. If you make a bad choice of bands to operate on, or take a break at the wrong time, Jeff will be right there slipping past you.

The Mt Greylock Expeditionary Force, W2SZ/1, headed up by Dick, WA2AAU, did an outstanding job in the multioperator category by racking up over 900,000 points to secure a first-place win. This group has been operating from Mt Greylock in Western Massachusetts for many years—and winning! They have placed first in the multioperator category every year for the last 11 years. In 1986, operating on Mt Toxaway in Western North Carolina, WS4F slipped by them for the win. This was the only blemish in their perfect record since 1980. Hats off to Dick and his well-oiled contest machine.

In the limited multioperator class, competition was a quite close and fierce, with all top eight finishers scoring over 100,000 points each. The crew at W4IY topped the list, and W4NH finished in second place. This limited multioperator category is becoming increasingly popular. Part of the attraction is only having to muster equipment and antennas for four bands. This fact alone makes it more desirable for many groups. To be competitive in the multioperator category, it takes a lot more equipment and bands.

QRP portable is a great category for those without a good station or location at home. It doesn't take a lot of equipment to be competitive. Also, the 10 W output limit is perfect for many portable rigs. All you need is a good spot and a game plan. Pete, K9PW, surely knew what he was doing. He easily took first place by 73,000 points over second place Zack, W1VT.

The rover category is another one that keeps gaining in notoriety. We had a total of 68 rovers in 1997, as opposed to 54 last year.



The limited multiop gang at W6TOI wasn't looking at the beautiful scenery. They ranked number one in their section.

Jack, AB4CR, along with partner Gerald, W8ULC, roved to 14 grid squares, during their first place victory. Brian, ND3F, finished second place rover, while visiting eight grid squares.

Band conditions this time around seemed to favor the central US more than anywhere else, with some nice north/south openings. Reports from the northeast reveal some of the flattest conditions we've had in a while. Check out the QSO and multiplier boxes. You'll find quite a few central US stations making the listings.

The September VHF Pin Program is still alive and doing well. Over 400 pin collectors are flaunting their 1997 pins. This program was also designed to attract newcomers and increase activity during the contest period. It has surpassed its goals! We had a record number of entries in the 1997 September VHF QSO Party—752 entries. This is an in-

crease of 4.9% over last year's 717 entries. We also had a number of first timers participating in the contest. Check out the sidebar "A First Time Experience."

See you in a few weeks for the January VHF Sweepstakes, January 17-19. That's the big kick-off of the 1998 VHF contest schedule.

Soapbox

Activity was down but a lot of new calls active. Still got a new grid and noticed fewer clusters of hams on the calling frequencies (KIDAT). Not much operating time, flat conditions, but contest is still lots of fun (WAI1T). Some said conditions were flat in the northeast. I saw a few bright spots in the propagation. I can't complain. A lot of new stations on, and the rover category seems to continue to grow (K1LPS). Conditions were rather flat. Signals from Canada seemed stronger and there were more around, maybe more hams got active up there this time. Six meters had the greatest improvement (WB1GQR). Poor band conditions, looking for better conditions in January (N1MIA). There was virtually no skip activity, but

Northeast Region (New England, Hudson and Atlantic Divisions; Maritime and Quebec Sections)			Southeast Region (Delta, Roanoke and Southeastern Divisions)			Central Region (Central and Great Lakes Divisions; Ontario Section)			Midwest Region (Dakota, Midwest, Rocky Mountain and West Gulf Divisions; Manitoba and Saskatchewan Sections)			West Coast Region (Pacific, Northwestern and Southwestern Divisions; Alberta, British Columbia and NWT/Yukon Sections)		
WA2TEO	329,732	S	K2UOP/8	137,592	S	WA8WZG	394,744	S	WA0BWE	118,080	S	KJ6KO	25,346	S
K1RZ	258,128	S	N4KWX	52,510	S	KE8FD	213,428	S	KB0PYO	78,750	S	N6HKF	25,280	S
WA2FGK	196,910	S	KD4UPF	45,186	S	K2YAZ	98,645	S	KB0IKP	74,606	S	N6AJ	24,408	S
(K2LNS,op)			K4QI	43,815	S	AA9AO	92,535	S	K0KD	47,160	S	N7STU	21,775	S
KD1DU	181,712	S	W8DT	32,230	S	K8MR	80,203	S	K9MK	46,144	S	WB5OMF	17,582	S
W3OR	129,540	S												
W1VT	99,064	Q	WR3I	36,080	Q	K9PW	171,952	Q	N0JK	6,987	Q	KK6KE	21,060	Q
VE2PIJ	8,127	Q	KT4GG	1,083	Q	N8KWX	21,096	Q	KC7OLP	49	Q	KC6TMB	7,888	Q
K1VZI	2,544	Q				N8A	5,586	Q				KF6FJG	4,600	Q
K3XZ	1,680	Q				(N8XA,op)						WB6YDO	1,200	Q
W3PO	1,386	Q												
W2SZ/1	903,856	M	K8GP	800,394	M	W0UC/9	132,770	M	W0ZQ	223,288	M	KE6YDG	44,311	M
K3MQH	669,750	M	W4PYM	15,576	M	K9RU	31,312	M	N0YKR	19,437	M	K6MI	26,934	M
K3YTL	619,840	M							WD5AGO	10,106	M	W6BB	13,475	M
N2JQR	378,561	M										AA6CV	9,568	M
K2TXB	373,641	M										W6AJF	4,752	M
NC1I	224,353	L	W4IY	315,096	L	WB9ERB	110,466	L	N0QJM	183,675	L	N6RMJ	117,600	L
KB2DMK	140,506	L	W4NH	240,322	L	N9LAG	74,052	L	KC0AHN	11,036	L	WA6KLK	37,356	L
WB1GQR	133,866	L	KR4IN	98,787	L	AA8BC	68,952	L	KK5IH	6,780	L	W6TOI	36,354	L
W1QK	104,048	L	W3EUH	16,933	L	NI9E	28,372	L	W5EHM	5,285	L	KE7LE	9,120	L
K2AA	84,582	L	NC4DX	11,800	L	VE2QQ/3	17,040	L	N0TMQ	4,175	L	N6TU	7,326	L
ND3F	135,051	R												
W2FU	106,964	R	AB4CR	253,445	R	K9JK	44,226	R	N0BEL	47,971	R	K7XC	77,265	R
W3EKT	96,051	R	KA8IFC	114,405	R	W9FX	34,780	R	WA2VOI	29,890	R	N6DN	17,158	R
N1MJD	50,687	R	N4STK	100,940	R	WB9SNR	11,760	R	WB5VYE	25,353	R	K7XW	12,282	R
KA2CKI	45,448	R	KF9US	37,926	R	WD9EGE	10,285	R	K0DAS	19,776	R	KE6BZY	11,480	R
			KC4ZRH	14,049	R	N9SFN	2,448	R	KK5RH	14,112	R	KB7PQW	11,388	R



Pictured from left to right at their limited multioperator station, N6RMJ, are Jim, WB2ODH, Pat, N6RMJ, and Dick, K6KWQ.



With his futuristic-looking *antennamobile*, Don, WA2VOI, took second place rover in the Dakota Division.

it was fun working stations via line of sight. Biggest thrill was working into FN12 and four stations in FN33 (WB2AMU). This was my first contest ever and I think I am hooked (KC2BEZ). Adding the microwave bands to our operation has added to our enjoyment of the contest (K3MQH). Although the number of contacts seemed to be down, the camaraderie on the band seemed to be up. Everyone seemed to be taking the conditions in good spirits and having a grand time--I did (W3HOA). Spent 10 hours removing antenna and reinstalling it on newly erected tower. Hopefully next contest will be more relaxing (KB1YZ). It was great to get on 903 MHz (AA3GM). We had a lot of new people on 6 meters this year, but the bottom dropped out of everything after lunch on Sunday (K4KAZ). I would like to commend the K8GP crew for their true contest like sportsmanship. Thank you for showing us the way on 6 meters (W2YV). My first VHF contest. Wish I had a mountain to be on so I could have done better. I know in the future, I'm going to try and get more hams involved (AE4HG). This was our first VHF QSO Party and we had a great time. Looking forward to the spring already (KE4YBS). Activity was down and conditions stunk, but I'll be back next year (KD4UPF). Conditions were nothing to get excited about, but it was nice to finally get on 432 after all these years and pick up the extra multipliers (K4MSG). No band openings or skip but participation seemed better this year (N4BG). This was our best showing ever in September. We had a great time, beautiful weather and excellent food. Thanks to KA4CKI our master chef (W4IY). Perfect weather made for great camping but lousy conduct. Where was the cook KE4ZQD when we really needed him? Running 2 meters of

QSO Leaders By Band Single Operator/QRP Portable

50 MHz	144 MHz	222 MHz	432 MHz	902 MHz	1296 MHz
WA2TEO	221	WA2TEO	402	WA8WZG	121
N1MIA	200	KD1DU	339	WA2TEO	108
WA8WZG	179	K1RZ	322	K1FO	151
W3EP	178	KB2ZVP	308	K1RZ	80
K1RZ	162	AA8Q	262	WA2TEO	151
WA2FGK	154	K0MQS	258	KD1DU	75
(K2LNS,op)		KB0LYL	251	KR2FD	126
W2YV	143	KE8FD	251	WB2DNE	74
K5MA	136	WA2FGK	238	WB2DNE	73
K8MR	125	WA2FGK	215	WA2FGK	117
N3PUR	123	(K2LNS,op)	199	WA2FGK	114
W2RD	114	KB0PYO	213	WB2DNE	107
KB2ZVP	113	K8MR	208	WA2FGK	105
KM1X	111	AA9AO	208	(K2LNS,op)	(K2LNS,op)
K1DAT	108	WA4GPM	196	KD1DU	29
N3NGE	107	WB2VVV	191	KR2FD	27
		N3NGE	48	WB0BWE	27
		N1RWT	48	WB0BWE	23
				W3OR	20
				WA1MBA	20
				WA1MBA	32
				WB2VVV	19
				WA0BWE	18
				WA4GPM	28
				WA1MBA	17
				KD4UPF	27
				W1VT-Q	16
				W1VT-Q	27

Multioperator

50 MHz	144 MHz	222 MHz	432 MHz	902 MHz	1296 MHz
K8GP	547	K3MQH	762	W2SZ/1	169
W2SZ/1	493	K3YTL	611	K3MQH	158
K3MQH	461	W2SZ/1	542	K8GP	151
K3YTL	427	K8GP	523	K3YTL	151
W4NH-L	395	K2TXB	482	N2C1-L	108
N2C1-L	386	N2C1-L	467	W4YI-L	107
W4YI-L	378	W4YI-L	420	N2JQR	105
N2WM	333	WB1GQR -L	389	WB1GQR -L	104
K2TXB	314	W4NH	380	KB2DMK -L	84
K1WHS	304	WØZQ	357	KB2DMK -L	82
WB1GQR -L	291	N2JQR	357	N6RMJ -L	82
N2JQR	291	N0QJM -L	352	K1WHS	79
W1QK -L	215	W1QK -L	333	N9LAG-L	77
KB2DMK -L	213	N2WM	320	K2TXB	77
N0QJM -L	201	K2BAR -L	307	W4NH-L	70
				WA6KLK -L	108
				WA2ZFH	108
				K6MI	106
				W1QK -L	131
				N3ADC	8
				W1QK -L	131
				WØU/C9	122
				KE6YDG	22
				N2WM	19
				WA2ZFH	18
				K6MI	16

-Q denotes QRP Portable

-L denotes Limited Multioperator

Multiplier Leaders By Band

Single Operator/QRP Portable

50 MHz	144 MHz	222 MHz	432 MHz	902 MHz	1296 MHz
WA2TEO	51	KØMQS	77	KE8FD	43
W8ZD	46	KE8FD	64	WA8WZG	42
WA8WZG	45	KBØPYO	63	WA2TEO	31
K1RZ	42	AA8Q	62	WB2DNE	30
W2YV	39	WA8WZG	57	WA2FGK	30
W3EP	37	K2YAZ	57	(K2LNS,op)	
WA2FGK	35	W8ZD	56	K1RZ	29
(K2LNS,op)		K4QI	55	N8ZJN	28
K8MD	35	WB9Z	55	WB2DNE	36
KE8FD	34	N3AJX	50	WAØBWE	35
N5TML	33	K8MR	50	KBØIKP	35
W8WNX	33	KBØIKP	50	K1RZ	35
K8MR	33	K1RZ	49	KD1DU	35
W3OR	32	KBØVUK	49	WBØBWE	11
W8KX	32	WA2TEO	49	KUOP/8	33
WA4GPM	31			W9FZ	10
N8ZJN	31			WA1MBA	10
W8DT	31			WA4GPM	16
KR27VP	31			WAØBWE	16

Multionerator

Multioperator	50 MHz	144 MHz	222 MHz	432 MHz	902 MHz	1296 MHz			
K8GP	82	N0QJM -L	89	K8GP	57	K8GP	28	K8GP	30
N0QJM -L	79	K8GP	82	K3MQH	53	W4YI -L	53	N2JQR	23
W4NH -L	68	K3MQH	76	N2JQR	41	K3MQH	52	K3YTL	26
W4YI -L	67	K2TXB	75	W4YI-L	40	W0ZQ	49	W2SZ/1	22
K2TXB	62	W4NH	69	K2TXB	40	K2TXB	19	K2TXB	23
K3MQH	62	W4YI	68	K3YTL	38	K3YTL	19	N2JQR	20
W2SZ/1	54	W0ZQ	68	W4NH-L	37	N0QJM -L	46	K3MQH	15
N6RMJ -L	52	AA8BC -L	65	KB2DMK -L	36	N2JQR	43	W0ZQ	16
N2JQR	52	K3YTL	61	WB9ERB -L	35	K3YTL	40	W0UC/9	16
NC11 -L	51	N2JQR	61	N6RMJ -L	34	W4NH -L	40	K1WHS	8
K3YTL	49	W0UC/9	59	W2SZ/1	29	W0UC/9	40	K1WHS	15
W0ZQ	49	KR4IN -L	58	W0ZQ	29	KB2DMK -L	39	K3MWH	12
KB2DMK -L	48	WB9ERB -L	55	NC11 -L	27	WB9ERB -L	37	WA2ZZH	10
K1WHS	48	W2SZ/1	45	W0UC/9	26	AA8BC -L	33	KC0AHH -L	9
W0UC/9	46			KR4IN -L	25	W2SZ/1	33	KE6YDG	8
								WA6KLK -L	8
								WD5AGO	8

-Q denotes QBP Portable

-Q denotes QRF Portable
-L denotes Limited Multioperator

course (W4NH). Not too much activity on 2 meters in Arizona (WB7OIC). Operated from Horse Mountain contest site in DM54 at 7900 feet (K5AM). Thanks to all the Rovers! Their activity brings a new dimension of strategy to the contest. You guys in the "Great White North" need to listen for the southwest more often (K9MK). Band openings to South Dakota and Minnesota helped, also Rovers are a shot in the arm (K5SW). The students and I had a good time, just had fun. Poor band conditions

the first day, but good the second day. As always we will look forward to the EME and all other VHF contests (WD5AGO). This was the UT Club's best-ever September VHF QSO Party. Worked several first-ever grids including WA5BU in EM11 (W5EHM). I just parked my truck on a ridge line above the San Fernando Valley, put up beams for 6, 2 and 432 and had a blast for 8 hours (WA9STI/6). Activity was down but Rovers were up. No "E" openings again, but meteor scatter paid off with a

Scores

Each line score lists call sign, score, stations worked, multipliers, number of grids activated (if rover), entry category (S=single operator, L=limited multioperator, M=multioperator, Q=QRP portable, R=rover), and bands (A= 50 MHz, B = 144 MHz, C = 222 MHz, D = 432 MHz, 9 = 902 MHz, E = 1296 MHz, F = 2304 MHz, G = 3456 MHz, H = 5760 MHz, I = 10 GHz, J = 24 GHz, K = 47 GHz, L = 75 GHz, M = 119 GHz, N = 142 GHz, O = 241 GHz, P = 300+ GHz). Call signs of division eaders and band indicators are listed in **boldface** type.

1 Connecticut

WA2TEO	329,732	993	221 S	ABCD9EF
KD1DU	181,712	721	164 S	ABCD9EF
W3EP	22,849	287	73 S	ABDE
K1FO	18,240	190	48 S	C
K1EM	13,365	178	55 S	ABCD
N1NQD	10,854	138	54 S	ABCD
KA1SLG	5,440	120	40 S	ABD
W1QJL	2,970	83	27 S	ABCD
K1WVX	2,075	67	25 S	ABCD
N8WXQ	1,701	81	21 S	AB
K1QNF	972	54	18 S	AB
N1OPO	583	43	11 S	BD
W1FAJ	560	30	14 S	ACD
N1BAH	272	34	8 S	AB
W1NRG (N1CJB,op)	216	27	8 S	A
N1SFE	33	11	3 Q	B
W1QK (+AA1MY,NG5,W1QJ,K2Z,Z)	88,580	704	103	ABCD

Eastern Massachusetts

K5MA	50,600	443	88 S	ABCD
N1BWT	38,080	324	80 S	ABCD9E
W1PJM	16,416	208	57 S	ABCD
WG1Z	15,953	217	53 S	ABCD
K1DAT	7,722	176	39 S	ABD
K1GVM	7,476	133	42 S	ABCD
N1VQR	2,220	96	20 S	ABD
K1UR	2,014	106	19 S	AB
KX1C	1,197	35	21 S	ABCD9E
WA1OFR	1,122	53	17 S	ABDE
K1PDX	714	39	17 S	ABD
W1AA (K1VVP,op)	616	44	14 S	AB
N1ABY	200	25	8 S	A
W1DYJ	120	24	5 S	A
WA1GTP	40	7	5 S	ABC
K1VZI	2,544	74	24 Q	ABCDE
KA1EKR (+N1IA)	13,524	205	49 L	ABCD
N1FDX (+N1FYZ)	2,540	127	20 L	AB

Maine

WA1JOF	840	40	21 S	AB
K1WHS (+W1A1M, K1CA, K1OR, AF1T, WA1NIE, N1LBY)	220,896	851	177 M	
N1DGF (+K1ZE)	23,322	249	69 L	ABCD

New Hampshire

WA1T	9,668	131	56 S	ABCD
AC1J	8,538	152	44 S	ABCD
KU2A	2,418	57	26 S	ABCD9E
N1JHJ	1,978	71	23 S	ABD
K1BOT	1,863	81	23 S	AB
K8LT	704	64	11 S	AB
WB1FLD (+KA1FYB,N1NUM,N1VRR, WA8WDQ, N1MWK)	36,525	369	75 L	ABCD

Rhode Island

KM1X	23,126	318	62 S	ABD
K8BGZ	450	45	10 S	A

Vermont

K1LPS	10,140	148	52 S	ABCD
N1UGT	9,456	142	48 S	ABCD9E
N1YHW	1,008	63	16 S	A
W1VT	99,064	454	122 Q	
ABCD9EFGHI	133,866	943	111 L	ABCD

1 NC1 (W1RYS, WB2CWA)

4,446	99	38 L	ABD	
W1IM (KL7DN, W1GUA, N1NPP, N1PBX, W1Zs,ops)	1,988	71	28 L	AB
Western Massachusetts				
WA1MBA	45,408	286	86 S	B D9EFGHI
N1LZC	12,361	178	47 S	ABCD9E
NA1W	6,747	96	39 S	BCD9E
N1MH	6,534	169	33 S	ABCD
N1IMA	4,800	200	24 S	A
N1FUS	4,050	107	27 S	BD
WA1NYV	1,649	97	17 S	B
N1LYW	1,615	85	17 S	ABD
N1RSY	819	63	13 S	B
WB2ZI (K1DH, K1EP, K2AD, K2TR, KA1DZV, KA1PRT, N1XSY, N2BNY, N2HPA, N2CYA, N2YZO, W1S2, W1V1E, W2ARQ, WA1ZMS, WA2AU, WA8USA, WS2B,ops)	903,856	1883	272 M	
ABCD9EFGHJK				

2 Eastern New York

WB2DUS	29,072	214	92 S	ABCD
W3HHN	25,425	263	75 S	ABCD9E
N2MSS	18,502	205	58 S	ABCD9E
W2CCP	6,048	144	42 S	B

W2JHO	3,952	164	19 S	ABCD
WB2WHD	2,838	65	33 S	ABDE
AA2WQ	1,710	81	18 S	ABD
N2SQW	1,320	58	20 S	ABD
KG2HK	1,125	67	15 S	ABD
KG2GX	996	62	12 S	BCD
K1EM	13,365	178	55 S	ABCD
N1NQD	10,854	138	54 S	ABCD
KA1SLG	5,440	120	40 S	ABD
W1QJL	2,970	83	27 S	ABCD
K1WVX	2,075	67	25 S	ABCD
N8WXQ	1,701	81	21 S	AB
K1QNF	972	54	18 S	AB
N1OPO	583	43	11 S	BD
W1FAJ	560	30	14 S	ACD
N1BAH	272	34	8 S	AB
W1NRG (N1CJB,op)	216	27	8 S	A
N1SFE	33	11	3 Q	B
W1QK (+AA1MY,NG5,W1QJ,K2Z,Z)	88,580	704	103	ABCD

3 Delaware

W3OR	129,540	485	170 S	ABCD9EFG
WA3BZT	403	31	13 S	B

4 Eastern Pennsylvania

WA2FGK (K2LNs,op)	196,910	636	194 S	ABCD9EFG
N3NGE	97,149	431	141 S	ABCD9EFG

5 Georgia

WS4F	22,050	186	90 S	ABCD9E
KD4HLG	15,281	204	59 S	ABCD
W4WDH	5,616	88	48 S	ABCD
KD4K	3,360	83	32 S	ABCD
K4KAZ	2,128	59	28 S	ABCD

6 Arkansas

NSQYC	1,800	51	30 S	ABCD
KB5VRO	400	25	16 S	AB

7 New Mexico

K5RHR	4,340	87	35 S	ABCD9F
K5AM	3,325	72	35 S	ABCD
NSXZM	2,139	65	23 S	ABCD
N9KUW	1,694	63	22 S	ABD
KB5ZSK	1,300	44	20 S	ABCD
K5MAT	1,003	35	17 S	ABCD
KB5ZDV	750	34	15 S	ABCD
W5WDX	480	25	16 S	ABD

8 North Texas

K9MK	46,144	341	103 S	ABCD
W8CM	43,890	347	95 S	ABCD9E
NSVGS	6,525	121	45 S	ABC
KK6IT	4,872	168	29 S	B
NSWD	3,520	107	32 S	ABCD
KC5MGL	1,134	54	21 S	B
K5NUV	171	19	9 S	AB
KC5WUG (+KD5BVK,KC5VPZ)	108	18	6 L	AB

9 Oklahoma

K5SW	5,049	75	51 S	ABCD
N3ML	1,914	58	33 S	A
W3R3	36,080	227	110 Q	ABCD
KR4IN (KE45YQ, N4YJZ, WA1EHQ,ops)	69,750	172	285 M	ABCD9E
98,787	558	149 L	ABCD	
NC4DX (+KF4JTC, NC4SA, KF4QYA)	11,800	203	50 L	ABCD
NG4C (+WT4WZQ, N4ZQW)	9,840	130	60 L	ABCD
N4ZAK (+KD4OFQG)	5,100	31	15 L	ABD

10 Northern Florida

NX4E	4,995	82	45 S	ABCD
K4YVO	4,017	93	39 S	ABD
W4UE	2,013	44	33 S	ABD

11 South Carolina

KC4DVB	10,899	141	63 S	**ABCD**

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AA6CV (K7SDW,N6ZLH,K6ITU,K6CAB, N6VCL,ops)	9,568	144	52 M ABCDE	WA1IED (+K7QO) 2,024	85	23 L ABD	N9MZF 2,340 78 30 S B NA9RY 2,277 69 33 S AB NA9N 2,190 73 30 S AB WD9DSN 1,410 46 30 S ABCD WB9YDRB 672 25 21 S ABCD NY9B 630 30 18 S ABCD WB9RFB 108 29 3 S BD K9R0U (+N9KZJ) 31,312 231 103 M ABCDE	KØJO 1,560 45 26 S BCD KØBYIT 896 54 16 S BCD KØBØWAP 726 66 11 S B KØBØRX 406 58 7 S BB NØVYY 222 37 6 S BB KØCBNS 135 27 5 S BB WØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD	N2S2L (+N2GKM) 2,607 79 33 3 AB	
Santa Clara Valley											
AB6SO	2,442	76	22 S ABCDE	K2VAZ 98,645 360 181 S ABCD9EF	NE9D	611 44 13 S BD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØJ 1,560 45 26 S BCD KØØYIT 896 54 16 S BCD KØØWAP 726 66 11 S B KØØRX 406 58 7 S BB NØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD	Central	
WB6LRV	1,638	77	18 S ABD	K8MD 69,160 322 152 S ABCD9E	NE9O	594 26 18 S ABCDE	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	K9JK 44,226 323 8110 ABCD9E W9FX (+N9BJG) 34,780 270 9414 ABCD WB8NSR11,760 108 50 6 BCD9EFGHI WB8DEGE10,285 118 55 3 ABDEF N9SFN (+N8WWM)	W9FX (+N9BJG) 34,780 270 9414 ABCD WB8NSR11,760 108 50 6 BCD9EFGHI WB8DEGE10,285 118 55 3 ABDEF N9SFN (+N8WWM)		
AA6W	456	33	12 S BD	K6EB 61,666 321 138 S ABCD	WB8KX	32,136 275 103 S ABC	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
AD6CH	368	32	8 S BD	WB8KJ 196 35 4 S BD	N9PJB	14,600 143 73 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
KF6EQY	320	27	10 S ABD	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
KQ6OT	196	35	4 S BD	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
K6DPIW	40	10	4 S AB	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
KE6YDG (AA6AH,K6B6LH,K6E6OF, KC6UCN,K6EYVY,N6GZY,ops)	44,311	422	73 M ABCDE	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
WB6LRV	1,638	77	18 S ABCD	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
WB6LWV	7,326	173	37 L ABD	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
KE6YNR	(+AC6LK)	40	9	4 L BD							
San Diego											
KF6JBK	4,200	155	24 S ABD	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
KD6EFQ	2,772	103	18 S ABCD	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
K6IAH	650	46	13 S ABD	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
San Francisco											
WN6W	3,807	84	27 S ABCDE	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
WE6AJF	(N6KMK,K6T2YQ,W6KUW,WB6TMH, AA6GV,K6F2ZM,ops)	4,752	100	33 M ABCDE	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD	
WA6KLK (+WB6HDY,KD6LTB,K6B6OF, WB9NJS)	37,356	398	66 L ABDE	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
San Joaquin Valley											
N6AJ	24,408	228	72 S ABCDE	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
N7STU	21,775	226	67 S ABDE	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
N6PYI	13,566	178	57 S ABCD	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
N6IFW	8,692	164	41 S ABD	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
K6YK	3,528	98	28 S BCD	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
KE6JTH	390	32	10 S BD	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
K6FCNV	140	28	5 S BD	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
WA6QYR	45	9	5 S BD	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
KK6KE (21,060,230,60 Q ABCDE)	21,060	230	60 Q ABCDE	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
KW6YD	1,200	50	15 Q BCD	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
K6M6I	(+KC6OPO)	4,752	176	27 L B	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD	
WB6LSE	(+WB6GPD)	1,176	50	21 L ABD	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD	
Sacramento Valley											
WB6LWV	1,638	77	18 S ABCD	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
WB6LWV	1,638	77	18 S ABCD	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
WB6LWV	1,638	77	18 S ABCD	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466 510 171 L ABCD	KØØVYY 222 37 6 S BB KØØBNS 135 27 5 S BB WØØZØ (+WBØGM,WA2PHW,NØHØJZ, KAØJWC) 223,288 703 226 M ABCD9EFGIP	NØØTMQ (+NØUØH,KBØVUQ) 4,175 138 25 L ABD		
WB6LWV	1,638	77	18 S ABCD	WB8KJW 40 10 4 S AB	WB8KUF	5,782 102 49 S ABCD	WB9ERB (WB8ERB,N8NNG,K9YDØ, WB9YCY,N8QQY,N8JLZ,KE4OED,ops) 110,466				