

ARRL September VHF Contest 2013 Results By Jeff Klein, K1TEO

The atmosphere has trumped the Internet!

Good conditions and increased activity levels are key ingredients for a successful VHF+ contest. While submitted logs were up, a number of stations across North America observed that activity seemed modest. In actuality, Table 1 below shows submissions were actually up over 10 % this year!

Table 1 – Participation by Year

Category	2011	2012	2013
SOLP	226	233	220
SOHP	86	101	111
LM	23	21	25
MO	29	36	35
SO-Port	16	16	19
R	31	25	29
RL	18	16	24
RU	5	6	7
SO-FM			7
SO-3B			37
Total	434	454	514

2013 marked the first year of two new VHF+ contesting Single-Operator categories — FM only (SOFM) and Threeband (SO3B). SO3B proved to be fairly popular in the initial go-round while the SOFM category still has a good deal of potential upside.

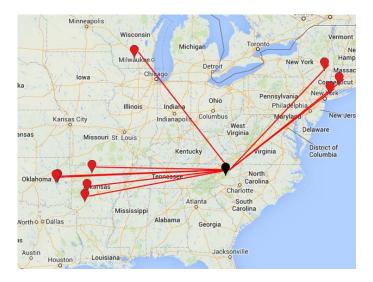
From the standpoint of band conditions, many anticipated a fairly blasé weekend based on the various propagation tools available. According to forecasting tools like the Hepburn tropospheric map (www.dxinfocentre.com/tropo.html), nothing all that exciting was expected. Even during the contest, the live Automatic Packet Reporting System (APRS) maps failed to show any enhanced tropo conditions. Likewise, solar reports also indicated that nothing unusual was to be expected. Those looking at these reports Saturday, before the start of the contest, would not have anticipated any enhancement. Fortunately, that was not the case for much of the eastern half of the country, particularly in the Southeast and Middle Atlantic areas.

Band Conditions

After last year's great E-skip and TEP openings on six meters during the contest, there was hope that perhaps this year would bring a repeat. It was hoped that the Sun would act up and give us an aurora as we neared the solar maximum. Alas, neither was in the cards for the weekend so that focused hope on some tropo enhancement.

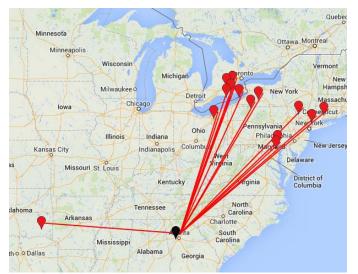
In California and the Pacific Northwest, several contesters noted coastal tropo that enhanced signals during the contest. Both areas enjoyed some signals that were stronger than normal, though there were no reports of great distances being worked via this mode. During a noontime team meeting of the AA4ZZ group on North Carolina's Boone Mountain in EM96 before the start of the contest, Roger, W4MW, announced that there might be tropo even though the Hepburn map showed nothing was expected. Roger had looked at the weather maps to determine his own forecast for the bands.

At the same time, George, ABØRX, was setting up his portable station on Missouri's Tom Sauk Mountain in EM47, the highest point in the state. All of his antennas are homebrewed from The ARRL Antenna Book. As it turned out, Roger was correct and both stations were in the right place at the right time to enjoy some great tropo on 144 MHz and up.



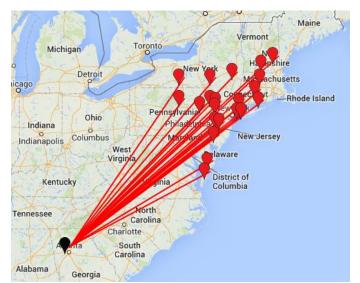
AA4ZZ started working tropo Saturday night on 144, 222, and 432 MHz. The band was open primarily in two directions — to the west as far as Oklahoma and Kansas, and to the Northeast as far as New England. (Map provided by Google Maps)

The AA4ZZ team's best DX and some real excitement was working Todd, KØKAN, in EM19 who noted it was the "absolute highlight of the weekend for me. I heard AA4ZZ calling CQ on SSB. When they had difficulty with my call I called back on CW. We worked on 2 meters and then moved to 432 and then to 222." On Sunday morning the tropo moved around as AA4ZZ worked W9s and WØs, as well as some W2s and W5s. On Sunday evening they managed to work K1TEO in FN31 on 222 and 432. In the end, the AA4ZZ team worked 68 grids on 144 MHz, 55 on 432 MHz, and had many 500+ mile QSOs.



W4NH started working the tropo Saturday night with QSOs to the west as far as Oklahoma, even more toward VE3, W2 and W3, and even one into southern New England. (Map provided by Google Maps)

A little to the south in EM85, the Limited Multioperator group at W4NH in Georgia probably experienced the best tropo of the contest. They also started working the tropo Saturday night with QSOs to the west as far as Oklahoma, even more toward VE3, W2 and W3, and even one into southern New England. Conditions continued to be excellent, with perhaps their best opening coming in during the last hours of the contest as they were pounding into New England. Their best DX was almost 1000 miles to K1WHS in Maine late in the contest on 144 MHz, while on 432 MHz they contacted K1TR in FN42 at about 900 miles. I, can attest that they were a solid S-9 for the last several hours of the contest at my own location in Southwestern Connecticut, and easily worked through 432 MHz. The bottom line was 76 grids on 144 MHz!



The best DX for W4NH is shown on this map of Sunday QSOs — almost 1000 miles to K1WHS in Maine late in the contest on 144 MHz, while on 432 MHz they contacted K1TR in FN42 at about 900 miles. (Map provided by Google Maps)

Meanwhile, in Missouri, ABØRX had beautiful weather and a very pleasant surprise Sunday morning as he worked several long-haul contacts to the East, as far as W2LV in FN21. The opening lasted about 2 hours at his location. "I've been operating VHF for about 7 years now and those 2 hours were the best tropo conditions I have ever experienced."

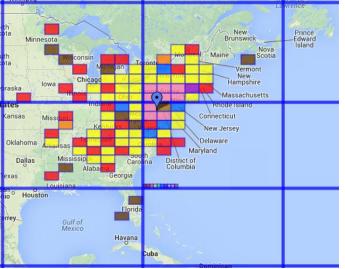
Table 2 – Limited Multioperator Grid Totals

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Call	50 MHz	144 MHz	222 MHz	432 MHz	Total
K1WHS	52	50	32	38	172
W3SO	48	64	45	45	202
K8EP	51	64	32	39	186
AA4ZZ	56	68	36	55	215
W4NH	62	76	40	48	226



George, ABØRX, had some great tropo QSOs, saying, "I've been operating VHF for about seven years now and those two hours were the best tropo conditions I have ever experienced." (Map provided by Google Maps)

Another station in the right place was K8GP operating from FM19 in Virginia. The tropo reached them starting early Sunday Morning and until mid-afternoon they were working DX to the Southwest on the bands. On 2 meters they made QSOs to Alabama, Tennessee, Missouri, and Mississippi. Their best DX at over 1000 miles was to K5QE in EM31 (TX). On 432 they worked as far as W5MRB in EM35 (AR), a distance of almost 900 miles! Their final tally was 82 grids worked on 144, 47 on 222 and 56 on 432. Others in their area including W3PAW, K1RZ, W3SO and K8EP also were enjoying the great conditions as well.



This colorful map shows all of the grids worked by the K8GP Multioperator team. The darker the color, the higher the number of QSOs worked in that grid. (Map provided by Google Maps)

Sunday morning DX QSOs were made on 2 meters from Texas and Arkansas toward Indiana, Illinois and Ohio. Late in the contest the tropo drifted into the Northeast. K1TEO in FN31 (CT) worked into Tennessee, South Carolina, Georgia and Alabama — a QSO with W4ZRZ in EM63, a path of over 900 miles. Jeff noted that signals were strong from the stations worked but not many seemed to be on from the Southeast, perhaps having given up earlier in the contest before the tropo arrived. Or, as AA4ZZ noted, it is possible that the poor forecasts on Hepburn and the APRS maps caused many to miss the tropo. This entire event was a great example of why checking the Internet for band conditions, while helpful, is not always accurate. Expect the unexpected on VHF — the only way to know is to make noise!

Single-Operator Results

The Single-Operator, Low Power (SOLP) category remained the most popular category with 220 submitted logs. The three top scorers all exceeded 100k points which tripled the number from 2012. Although last year's champ, Bob, K2DRH, increased his score by nearly thirty percent, he was overtaken by Ed, K1TR, who scored 156k operating portable from Mt Wachusetts in Massachusetts. Ed ran into some problems with foliage on the higher bands as he opted to operate from below the summit. However, the good QTH and operator overcame the challenge with strong results on all ten of his bands. It boiled down to QSO versus multiplier totals as 'DRH had significantly higher grid totals, but 'TR had almost 50% more QSOs than Bob. Neither station found much enhancement but 'TR did work a couple of long haul QSOs with W4NH and AA4ZZ in the last hour of the contest.

Mitch, WB1GQR, placed third with a score of 103k from his portable location on Mt Equinox in Vermont. He was followed by AF1T, K2KIB and N3RN. N4QWZ from the Southeast was next, right behind 'RN. Regional leaders included ABØRX in the Midwest and AF6RR on the West Coast. The Single-Operator, High Power (SOHP) category saw a ten percent increase in participation over 2012. Jeff, K1TEO, once again came out on top with over 300k points. His score was down quite a bit from prior years mainly because he was not able to start operating until Saturday night. He noted that he never had the high QSO rates usually experienced in the first few hours, suggesting that many only operated during the early hours of the contest. He worked a few extra grids Sunday night with tropo to the Southeast, working as far as Alabama.

Top Ten – Single-Operator Categories

Single-Operator, Low Power

K1TR K2DRH WB1GQR AF1T K2KIB N3RN N4QWZ WB2JAY K1KG WA2VNV	156,772 132,104 103,768 65,520 56,050 47,952 45,780 35,939 35,112 32,508
Single-Operator, High Power	
K1TEO WA2FGK K1RZ K3TUF W3PAW W5MRB WØUC VE3ZV K8TQK W4ZRZ	$\begin{array}{c} 323,323\\ 261,010\\ 251,127\\ 232,780\\ 147,634\\ 59,503\\ 57,625\\ 56,625\\ 56,625\\ 56,580\\ 50,196\end{array}$
Single-Operator Portable	
N6NB W7LUD W9SZ KB5WIA KC2VLG N6LB WB2AMU NIØW VE3EG KI6QEL	112,765 11,960 3,162 2,704 2,185 1,476 1,368 1,219 966 730

Taking the next spots were a trio of 3-land stations. In a close competition, Herb, WA2FGK, edged out fellow Pennsylvanian Phil, K3TUF, and Dave, K1RZ, from nearby Maryland. Herb's 6 meter results made the difference as he had the high Single-Operator QSO total on the band along with a high grid total.

W3PAW was in the right place to enjoy some of the tropo helping him to an excellent score of 147k and a single operator best 2 meter grid total of 56. The rest of the category's Top Ten all scored in the 50k range. W5MRB rode the tropo from Arkansas to lead the pack followed by Midwesterners WØUC, VE3ZV and K8TQK. W4ZRZ also enjoyed the opening Sunday and achieved some high grid totals to round out the group. KFØM topped the Midwest Region and VE7JH used his mountaintop portable QTH on Vancouver Island to achieve the high score from the West Coast. Both noted the help of rover activity in their success.



Operating from the highest point in Missouri — Tam Sauk Mountain — George, ABØRX, was in the right place at the right time to pick up some great tropo contacts into the East Coast. (Photo by ABØRX)

The Single-Operator Portable (SO-Portable) category saw an uptick in logs. Top dog was Wayne, N6NB, with over 100k points, far ahead of the competition. He noted sparse activity but a wealth of rovers that kept him hopping while setting a category record for the Southwestern Division. He also noted some coastal tropo that helped his results. He was operating from the driveway of a house that may see future contesting efforts – after the contest he purchased the property! W7LUD helped the West Coast Region seal the top two spots in the category, repeating his second place position of a year earlier. W9SZ rounded out the top three.



Ed, K1TR operated from the newly re-landscaped Wachusett Mountain including a new fire tower. Although he suffered the effects of foliage absorbtion, the view was still spectacular, one of the benefits of VHF+ contesting in the field! (Photo by K1TR)

New Single-Operator Categories

2013 marked the addition of two new Single-Operator categories for VHF contesting. The Three-Band (SO3B)

category saw 37 participants in its initial September contest. Jim, N1ZN, earned a narrow victory over K9MU. Close behind were AC6HU and KV2M. With many rigs available equipped for 50, 144 and 432 this should be a popular category going forward. Who is up for topping Jim's category record in 2014?

Top Ten – New Single-Operator Categories

Single Operator, 3-Band

N1ZN	7,380
K9MU	6,655
AC8HU	4,465
KV2M	4,012
WB9TFH	2,139
K3YDX	2,052
N3UM	2,030
KG9Z	1,769
NT9E	1,650
K1VO	1,136
Single Operator, FM Only	
W2EV	688
N9VM	75
K4QWZ	56
K2SI	55
KG6VFO	20
KE5GFY	16
N4ZKS	6

Many VHF+ contesters began their operating on the FM part of the bands. For the first time, there was an FM-only (SO-FM) category of competition in 2013. Participation was minimal in this event as only seven logs were submitted. Hopefully word will spread among the FM fans on the VHF bands and bolster the activity in the future. In this first competition, W2EV from Western New York was the top scorer.

Multioperator Categories

In a battle of titans, The W2SZ team came out ahead of the Grid Pirates operating K8GP in the Multioperator (MO) category. 'GP was operating from a well-appointed permanent station in FM19 while 'SZ was at their usual portable site in Western Massachusetts. As noted earlier, 'GP was in the right place for some great Sunday morning tropo enhancing their grid totals. In the end they had a significant advantage in grids worked on 50 through 432 — 253 versus 164 — while 'SZ had almost triple the grids and more than triple the QSOs on 902 MHz and up. Congratulations to both groups on terrific efforts and scores in the contest.

Top Ten – Multioperator Categories

Limited Multioperator

K1WHS	213,280
W3SO	197,354
K8EP	166,470
AA4ZZ	163,400
W4NH	160,460
W2LV	117,245
K5QE	78,470
K2BAR	68,796
N8ZM	54,954
NE5BO	13,363
Multioperator	
W2SZ	920,816
K8GP	546,621
K2LIM	187,200
W4IY	173,935
W6TE	143,330
W2EA	123,224
KBØHH	59,800
K3EOD	38,592
KØKAN	30,392
N3MK	26,320

The next four groups all exceeded 100k points with K2LIM earning third in a close competition with W4IY. W6TE set a Southwestern Division record, placing fifth overall, followed by W2EA.

Some of the best competition of the contest was in the Limited Multioperator (LM) category. Take a look at the grid totals in Table 2! After a year's hiatus, the K1WHS team from Maine earned the top spot reaching 213k points. The next four teams were close behind with at least 160k points. As with the Multioperator category, the difference for the New England team was a higher QSO total than the competitors. 'WHS only had limited enhancement late in the contest, while the others were all were in excellent locations to work the tropo, especially on Sunday. After winning in 2012, W3SO returned to take second, scoring 197k, just ahead of nearby K8EP. AA4ZZ and W4NH were next.

Overall log submissions for the two Multioperator categories were up slightly over 2012 with a total of sixty competitors. Regionally, K5QE and KBØHH turned in significant scores to lead the Midwest region in the Limited Multioperator and Multioperator categories while N8ZM and N2BJ did the same in the Central Region. K5QE utilized moonbounce effectively to record the highest 144 MHz grid total (90) in the contest.

Rovers

The Rover (R) category was dominated by four West Coast rovers, all scoring over 100k points. While they did not find a lot of general activity in the contest, working each other and Single-Op Portable operator N6NB on up to ten bands generated their excellent scores. Leading the way was K6FGV, with fellow Southern California Contest Club members K6AH, N6VI and N6HD next in line.



In the true ham spirit, here is Tim, AL1VE/R, helping to fix NL7B/R's 6 meter dipole a couple of hours into the contest. (Photo by NL7B)

VE3OIL and VE3SMA roving in Ontario finished neck and neck with 99k and 96k taking the next two places. AF6O, WA3PTV and W9SNR were next, while Bruce, W9FZ, took the final Top Ten spot. Bruce continues to rove in sparsely populated areas of the Great Plains, helping to generate activity and some VHF excitement in the area each September. Stayed tuned to see where Midwest Mania heads in 2014! [Also check out Bruce's fine writeup of the ARRL 10 GHz and Up Contest on the arrl.org/contest-results-articles website - Ed.]

Top Ten – Rover Categories

Rover	
K6FGV/R	189,849
K6AH/R	179,928
N6VI/R	138,635
N6HD/R	113,709
VE3SMA/R	99,964
VE3OIL/R	96,336
AF6O/R	83,076
WA3PTV	51,525
W9SNR/R	40,495
W9FZ/R	37,341
Limited Rover	
K2QO/R	63,900
WW7D/R	26,542
AL1VE/R	22,848
N2ZBH/R	19,080
K9JK/R	12,528
NL7B/R	11,799
WB2SIH/R	10,918
W5VY	6,996
KØBBC/R	5,916
W1PL	2,666

Unlimited Rover

N2SLN/R	46,736
KF8QL/R	14,094
KJ1K	9,315
N4DBR	3,379
WA2TTP/R	3,161
WAØRKQ/R	946
W2TAU/R	110



This is Wayne, N6NB's tower trailer (described in June QST) in Panorama Heights, east of Orange, California. (Photo by N6NB)

The Limited Rover (RL) category saw a nice jump in submitted logs jumping to 24 from 16 in 2012. K2QO/R and partner K2ZR had a nice score increase to retain the top position. They attributed the improved results to more activity and a better location in one of their key grids. Moving over from the Unlimited Rover class in 2012, WW7D took second from the Pacific Northwest. With an ambitious 10-grid rove tailored to hit the population centers, he was able to make well over 400 QSOs. Fellow West Coast operator AL1VE was close behind followed by N2ZBH, K9JK and NL7B.

There were seven total entrants in the Unlimited Rover (RU) category. Lu, N2SLN, had 46k to lead the group. KF8QL was next followed by KJ1K.

Club Competition

More than 40% of entrants (24 clubs) participated in this aspect of the competition. After a very close 2nd finish in 2012, the Potomac Valley Radio Club returned to the top spot in the Medium Class with a convincing win. Registering 1,235,925 points, they topped the Southern California Contest Club, who also cracked the million point level. These totals are significantly higher than last year — a tribute to the hard work of both clubs. The perennial January Sweepstakes winners from the Mt Airy VHF Radio Club improved their score by almost 100k to take 3rd place, followed by last year's champs from the North East Weak Signal Group. Contest Club Ontario had a nice jump in their score to retain 5th overall followed by the Society of Midwest Contesters, who had a showed a nice jump in entrants and score from last year.

The Badger Contesters from Wisconsin dropped down to the Local Class and took the top prize with the same number of entrants but a higher score. The Bergen ARA from New Jersey had huge improvement in results to move up to second followed by the Chippewa Valley VHF Contesters.

Club Competition

Medium Category Potomac Valley Radio Club Southern California Contest Club Mt Airy VHF Radio Club North East Weak Signal Group Contest Club Ontario Society of Midwest Contesters Yankee Clipper Contest Club Carolina DX Association Pacific Northwest VHF Society Northern Lights Radio Society Cold Brook Contest Club Northern California Contest Club Bristol (TN) ARC Arizona Outlaws Contest Club Florida Contest Group	1,235,925 1,010,852 802,148 556,187 264,718 196,192 163,621 141,274 87,622 79,292 9,799 7,215 153 71
Local Category Badger Contesters Bergen ARA Chippewa Valley VHF Contesters Granite State ARA DFW Contest Group Rochester (MN) ARC Florida Weak Signal Society Stoned Monkey VHF ARC Lawton Fort Sill ARC	96,053 71,832 17,843 16,439 9,798 8,865 6,049 4,280 3,180

Conclusion

The introduction of operating aides available on the Internet propagation forecasts, live propagation information, chat pages, etc, has been a great help to VHF+ operators in recent years. During contests, some of them cannot be used but others are allowed, such as the propagation forecasts like Hepburn and WWV solar reports. However, sometimes these tools do not show the full story of what is happening on the bands. There is some chance that we are more likely to miss enhancement on the bands because when we check the computer the tools say nothing is going on, and we never turn on the rig.



Roger, W4MW, turned out to be a secret weapon for the AA4ZZ team, suggesting that tropo propagation was quite possible even those the prediction tools said just the opposite. Turn on those radios and call CQ! (Photo by AA4ZZ)

The September 2013 contest was a great example of why the Internet information can never replace actual on-the-air checks. None of the great tropo ever showed up in the tool forecasts or real time predictions. But savvy operators were there to enjoy some really good DX and fun during the contest. Or, you can invite Roger, W4MW, to join your team to let you know when the band will be open, hi! Make your plans now to be active on September 13 – 15, 2014.

Thanks to the AA4ZZ, W4NH and K8GP teams for sharing their log information, along with ABØRX. And special thanks to Andy, K1RA, who worked really hard to create the maps available in the online report. Also to Curt, K9AKS, for updating the September contest records. Thanks OMs!

				•	mber VHF Q	-			
Boxes	list call sign, score, and ca	ategory (A - Single-Op L	ow Power, B - Single-O	Ŭ	-Op Portable, L - Limited M	,	perator, R - Rover, RL	- Limited Rover, RU - Ur	limited Rover)
Northo	ast Region	Southo	ast Region	Cont	ral Region	Midwo	st Region	West	Coast Region
New England, Hu Divisions; Mari	udson and Atlantic itime and Quebec ctions	Delta, Roanoke	and Southeaster	n Central and Gr	eat Lakes Divisions rio Section	, Dakota, Midwes and West Gulf D	st, Rocky Mounta Divisions; Manitol hewan Sections	in Pacific, N ba Southweste	orthwestern and rn Divisions; Alberta, bia and NWT Sections
K1TR	156,772 A	N4QWZ	45,780 A	K2DRH	132,104 A	ABØRX	14,850 A	AF6RR	13,916 A
WB1GQR	103,768 A	KX4R	25,894 A	WZ8T	22,692 A	NØLL	9,035 A		9,847 A
AF1T	65,520 A	K4FJW	4,838 A	N9DG	22,616 A	WØJT	5,640 A	K6TSK	8,118 A
K2KIB	56,050 A	K5YPV	4,400 A	K8MR	10,985 A	WBØHHM	2,822 A	K2GMY	6,018 A
N3RN	47,952 A	WA7TOF/4	2,464 A	VA3ZV	10,309 A	WAØARM	2,673 A	K6ATZ	5,499 A
K1TEO	323,323 B	W5MRB	59,503 B	WØUC	57,625 B	KFØM	14,060 B	VE7JH	19,494 B
WA2FGK	261,010 B	W4ZRZ	50,196 B	VE3ZV	56,625 B	K9MK	9,672 B	KC6ZWT	16,555 B
K1RZ	251,127 B	W3IP	32,736 B	K8TQK	56,580 B	KØAWU	5,700 B	N7EPD	16,400 B
K3TUF	232,780 B	WA4NJP	15,762 B	K9CT	35,793 B	KAØRYT	4,900 B		11,132 B
W3PAW	147,634 B	KG5MD	7,788 B	K9EA	33,152 B	WØZQ	4,176 B	K7ND	8,299 B
KC2VLG	2,185 Q	KC8KSK	12 Q	W9SZ	3,162 Q	NØW	1,219 G	N6NB	112,765 Q
WB2AMU	1,368 Q			VE3EG	966 Q	WØLLN	180 G	W7LUD	11,960 Q
N1PRW	494 Q					N5ZPG	24 G	KB5WIA	2,704 Q
KQ2RP	392 Q					NØJK	0 0	N6LB	1,476 Q
W3MEO	30 Q							KI6QEL	730 Q
K1WHS	213,280 L	K8EP	166,470 L	N8ZM	54,954 L	K5QE	78,470 L	K6EU	2,987 L
W3SO	197,354 L	AA4ZZ	163,400 L	VE3RB	714 L	W5CSC	3,996 L	W6RKC	1,064 L
W2LV	117,245 L	W4NH	160,460 L			KØGU	680 L	W6AJF	990 L
K2BAR	68,796 L	NE5BO	13,363 L			K5GZR	209 L		
N2NT	9,024 L	N4HB	9,912 L						
W2SZ	920,816 M	K8GP	546,621 M	N2BJ	12,685 M	KBØHH	59,800 N	1 W6TE	143,330 M
K2LIM	187,200 M	W4IY	173,935 M			KØKAN	30,392 N	1 W7VB	1,650 M
W2EA	123,224 M	N3MK	26,320 M			KC5MVZ	2,139 N	1 KF7PCL	392 M
K3EOD	38,592 M	N4JQQ	11,715 M			WØKAN	880 N	1 WE6C	256 M
W1XM	14,352 M	W4YCC	1,176 M			WØGN	1 N	1	
WA3PTV	51,525 R	AG4V/R	34,104 R	VE3SMA/R	99,964 R	W9FZ/R	37,341 R	K6FGV/R	189,849 R
NN3Q/R	35,998 R	W4WNT/R	56 R	VE30IL/R	96,336 R	KØDAS/R	26,070 R	K6AH/R	179,928 R
KB1EKZ/R	34,568 R			W9SNR/R	40,495 R	KCØP/R	6,304 R	N6VI/R	138,635 R
W1AUV/R	25,418 R			K9TMS/R	2,996 R	KCØSKWR	5,922 R	N6HD/R	113,709 R
K1DS/R	11,960 R			K9PLS/R	780 R	NØHZO/R	1,335 R	AF60/R	83,076 R
K2QO/R	63,900 RL	W5VY	6,996 R	K9JK/R	12,528 RL	KØBBC/R	5,916 R	L WW7D/R	26,542 RL
N2ZBH/R	19,080 RL			W8ISS/R	969 RL	AF5Q	2,436 R	L AL1VE/R	22,848 RL
WB2SIH/R	10,918 RL			VE3RKS/R	36 RL	NL7CO/R	1,992 R	L NL7B/R	11,799 RL
W1PL	2,666 RL					W3DHJ/R	867 R	L KE7IHG/R	1,408 RL
KA3KSP	72 RL					ABØYWR	816 R	L N6ZE/R	1,386 RL
N2SLN/R	46,736 RU	N4DBR	3,379 R	J KF8QL/R	14,094 RU	WAØRKQ/R	946 R	U	
KJ1K	9,315 RU								
WA2TTP/R	3,161 RU								
W2TAU/R	110 RU								

Division Winners

Single-Operator, Low Power		
Atlantic	N3RN	47,952
Central Dakota	K2DRH WØJT	132,104 5,640
Delta	N4QWZ	45,780
Great Lakes	WZ8T	22,692
Hudson	K2KIB	56,050
Midwest	ABØRX	14,850
New England	K1TR	156,772
Northwestern	KEØCO	9,847
Pacific	AF6RR	13,916
Roanoke	K4FJW	4,838
Southeastern	KX4R	25,894
Southwestern	K6TSK	8,118
West Gulf	W5SXD	1,643
Canada	VA3ZV	10,309
Single-Operator, High Powe	r	
Atlantic	WA2FGK	261,010
Central	WØUC	57,625
Dakota	KØAWU	5,700
Delta	W5MRB	59,503
Great Lakes	K8TQK	56,580
Hudson	N2GHR	45,248
Midwest	KFØM	14,060
New England	K1TEO	323,323
Northwestern	N7EPD	16,400
Pacific	KC6ZWT	16,555
Roanoke Rocky Mountain	W3IP WØETT	32,736 592
Southeastern	W9211 W4ZRZ	50,196
Southwestern	KC6SEH	1,449
West Gulf	K9MK	9,672
Canada	VE3ZV	56,625
		00,020
Single-Operator, Portable		
Single-Operator, Portable Atlantic	KC2VLG	2,185
	KC2VLG W9SZ	2,185 3,162
Atlantic		3,162 1,219
Atlantic Central Dakota Hudson	W9SZ NIØW WB2AMU	3,162
Atlantic Central Dakota Hudson Midwest	W9SZ NIØW WB2AMU NØJK	3,162 1,219 1,368 0
Atlantic Central Dakota Hudson Midwest New England	W9SZ NIØW WB2AMU NØJK N1PRW	3,162 1,219 1,368 0 494
Atlantic Central Dakota Hudson Midwest New England Northwestern	W9SZ NIØW WB2AMU NØJK N1PRW W7LUD	3,162 1,219 1,368 0 494 11,960
Atlantic Central Dakota Hudson Midwest New England Northwestern Pacific	W9SZ NIØW WB2AMU NØJK N1PRW W7LUD KB5WIA	3,162 1,219 1,368 0 494 11,960 2,704
Atlantic Central Dakota Hudson Midwest New England Northwestern Pacific Roanoke	W9SZ NIØW WB2AMU NØJK N1PRW W7LUD KB5WIA KC8KSK	3,162 1,219 1,368 0 494 11,960 2,704 12
Atlantic Central Dakota Hudson Midwest New England Northwestern Pacific Roanoke Southwestern	W9SZ NIØW WB2AMU NØJK N1PRW W7LUD KB5WIA KC8KSK N6NB	3,162 1,219 1,368 0 494 11,960 2,704 12 112,765
Atlantic Central Dakota Hudson Midwest New England Northwestern Pacific Roanoke Southwestern West Gulf	W9SZ NIØW WB2AMU NØJK N1PRW W7LUD KB5WIA KC8KSK N6NB N5ZPG	3,162 1,219 1,368 0 494 11,960 2,704 12 112,765 24
Atlantic Central Dakota Hudson Midwest New England Northwestern Pacific Roanoke Southwestern	W9SZ NIØW WB2AMU NØJK N1PRW W7LUD KB5WIA KC8KSK N6NB	3,162 1,219 1,368 0 494 11,960 2,704 12 112,765
Atlantic Central Dakota Hudson Midwest New England Northwestern Pacific Roanoke Southwestern West Gulf	W9SZ NIØW WB2AMU NØJK NIPRW W7LUD KB5WIA KC8KSK N6NB N5ZPG VE3EG	3,162 1,219 1,368 0 494 11,960 2,704 12 112,765 24
Atlantic Central Dakota Hudson Midwest New England Northwestern Pacific Roanoke Southwestern West Gulf Canada Single-Operator, 3-Band Atlantic	W9SZ NIØW WB2AMU NØJK N1PRW W7LUD KB5WIA KC8KSK N6NB N5ZPG VE3EG KV2M	3,162 1,219 1,368 0 494 11,960 2,704 12 112,765 24 966 4,012
Atlantic Central Dakota Hudson Midwest New England Northwestern Pacific Roanoke Southwestern West Gulf Canada Single-Operator, 3-Band Atlantic Canada	W9SZ NIØW WB2AMU NØJK N1PRW W7LUD KB5WIA KC8KSK N6NB N5ZPG VE3EG KV2M VE3RCN	3,162 1,219 1,368 0 494 11,960 2,704 12 112,765 24 966 4,012 6
Atlantic Central Dakota Hudson Midwest New England Northwestern Pacific Roanoke Southwestern West Gulf Canada Single-Operator, 3-Band Atlantic Canada Central	W9SZ NIØW WB2AMU NØJK N1PRW W7LUD KB5WIA KC8KSK N6NB N5ZPG VE3EG KV2M VE3EG	3,162 1,219 1,368 0 494 11,960 2,704 112,765 24 966 4,012 6 6,655
Atlantic Central Dakota Hudson Midwest New England Northwestern Pacific Roanoke Southwestern West Gulf Canada Single-Operator, 3-Band Atlantic Canada Central Dakota	W9SZ NIØW WB2AMU NØJK N1PRW W7LUD KB5WIA KC8KSK N6NB N5ZPG VE3EG KV2M VE3RCN K9MU NØAT	3,162 1,219 1,368 0 494 11,960 2,704 12 112,765 24 966 4,012 6 6,655 153
Atlantic Central Dakota Hudson Midwest New England Northwestern Pacific Roanoke Southwestern West Gulf Canada Single-Operator, 3-Band Atlantic Canada Central Dakota Delta	W9SZ NIØW WB2AMU NØJK N1PRW W7LUD KB5WIA KC8KSK N6NB N5ZPG VE3EG KV2M VE3RCN K9MU NØAT W4TTM	3,162 1,219 1,368 0 494 11,960 2,704 12 112,765 24 966 4,012 6 6,655 153 253
Atlantic Central Dakota Hudson Midwest New England Northwestern Pacific Roanoke Southwestern West Gulf Canada Single-Operator, 3-Band Atlantic Canada Central Dakota Delta Great Lakes	W9SZ NIØW WB2AMU NØJK N1PRW W7LUD KB5WIA KC8KSK N6NB N5ZPG VE3EG KV2M VE3RCN K9MU NØAT W4TTM AC8HU	3,162 1,219 1,368 0 494 11,960 2,704 12 112,765 24 966 4,012 6 6,655 153 253 4,465
Atlantic Central Dakota Hudson Midwest New England Northwestern Pacific Roanoke Southwestern West Gulf Canada Single-Operator, 3-Band Atlantic Canada Central Dakota Delta Great Lakes Hudson	W9SZ NIØW WB2AMU NØJK N1PRW W7LUD KB5WIA KC8KSK N6NB N5ZPG VE3EG KV2M VE3RCN K9MU NØAT W4TTM AC8HU K2UNK	3,162 1,219 1,368 0 494 11,960 2,704 12 112,765 24 966 4,012 6 6,655 153 253 4,465 396
Atlantic Central Dakota Hudson Midwest New England Northwestern Pacific Roanoke Southwestern West Gulf Canada Single-Operator, 3-Band Atlantic Canada Central Dakota Delta Great Lakes Hudson New England	W9SZ NIØW WB2AMU NØJK N1PRW W7LUD KB5WIA KC8KSK N6NB N5ZPG VE3EG KV2M VE3RCN K9MU NØAT W4TTM AC8HU K2UNK N1ZN	3,162 1,219 1,368 0 494 11,960 2,704 12 112,765 24 966 4,012 6 6,655 153 253 4,465 396 7,380
Atlantic Central Dakota Hudson Midwest New England Northwestern Pacific Roanoke Southwestern West Gulf Canada Single-Operator, 3-Band Atlantic Canada Central Dakota Delta Great Lakes Hudson	W9SZ NIØW WB2AMU NØJK N1PRW W7LUD KB5WIA KC8KSK N6NB N5ZPG VE3EG KV2M VE3RCN K9MU NØAT W4TTM AC8HU K2UNK	3,162 1,219 1,368 0 494 11,960 2,704 12 112,765 24 966 4,012 6 6,655 153 253 4,465 396
Atlantic Central Dakota Hudson Midwest New England Northwestern Pacific Roanoke Southwestern West Gulf Canada Single-Operator, 3-Band Atlantic Canada Central Dakota Delta Great Lakes Hudson New England Northwestern	W9SZ NIØW WB2AMU NØJK N1PRW W7LUD KB5WIA KC8KSK N6NB N5ZPG VE3EG KV2M VE3RCN K9MU NØAT W4TTM AC8HU K2UNK N1ZN K7SMA	3,162 1,219 1,368 0 494 11,960 2,704 12 112,765 24 966 4,012 6 6,655 153 253 4,465 396 7,380 871
Atlantic Central Dakota Hudson Midwest New England Northwestern Pacific Roanoke Southwestern West Gulf Canada Single-Operator, 3-Band Atlantic Canada Central Dakota Delta Great Lakes Hudson New England Northwestern Roanoke	W9SZ NIØW WB2AMU NØJK N1PRW W7LUD KB5WIA KC8KSK N6NB N5ZPG VE3EG KV2M VE3RCN K9MU NØAT W4TTM AC8HU K2UNK N1ZN K7SMA K4BSK	3,162 1,219 1,368 0 494 11,960 2,704 12 112,765 24 966 4,012 6 6,655 153 253 4,465 396 7,380 871 143
Atlantic Central Dakota Hudson Midwest New England Northwestern Pacific Roanoke Southwestern West Gulf Canada Single-Operator, 3-Band Atlantic Canada Central Dakota Delta Great Lakes Hudson New England Northwestern Roanoke Southeastern West Gulf	W9SZ NIØW WB2AMU NØJK N1PRW W7LUD KB5WIA KC8KSK N6NB N5ZPG VE3EG KV2M VE3EG KV2M VE3RCN K9MU NØAT W4TTM AC8HU K2UNK N1ZN K7SMA K4BSK W4ATL	3,162 1,219 1,368 0 494 11,960 2,704 12 112,765 24 966 4,012 6 6,655 153 253 4,465 396 7,380 871 143 56
Atlantic Central Dakota Hudson Midwest New England Northwestern Pacific Roanoke Southwestern West Gulf Canada Single-Operator, 3-Band Atlantic Canada Central Dakota Delta Great Lakes Hudson New England Northwestern Roanoke Southeastern West Gulf Single-Operator, FM-Only	W9SZ NIØW WB2AMU NØJK N1PRW W7LUD KB5WIA KC8KSK N6NB N5ZPG VE3EG KV2M VE3RCN K9MU NØAT W4TTM AC8HU K2UNK N1ZN K7SMA K4BSK W4ATL K15YG	3,162 1,219 1,368 0 494 11,960 2,704 12 112,765 24 966 4,012 6 6,655 153 253 4,465 396 7,380 871 143 56 912
Atlantic Central Dakota Hudson Midwest New England Northwestern Pacific Roanoke Southwestern West Gulf Canada Single-Operator, 3-Band Atlantic Canada Central Dakota Delta Great Lakes Hudson New England Northwestern Roanoke Southeastern West Gulf Single-Operator, FM-Only Atlantic	W9SZ NIØW WB2AMU NØJK N1PRW W7LUD KB5WIA KC8KSK N6NB N5ZPG VE3EG KV2M VE3EG KV2M VE3RCN K9MU NØAT W4TTM AC8HU K2UNK N1ZN K7SMA K4BSK W4ATL K15YG	3,162 1,219 1,368 0 494 11,960 2,704 112,765 24 966 4,012 6 6,655 153 253 4,465 396 7,380 871 143 56 912
Atlantic Central Dakota Hudson Midwest New England Northwestern Pacific Roanoke Southwestern West Gulf Canada Single-Operator, 3-Band Atlantic Canada Central Dakota Delta Great Lakes Hudson New England Northwestern Roanoke Southeastern West Gulf Single-Operator, FM-Only Atlantic Delta	W9SZ NIØW WB2AMU NØJK N1PRW W7LUD KB5WIA KC8KSK N6NB N5ZPG VE3EG KV2M VE3RCN K9MU NØAT W4TTM AC8HU K2UNK N1ZN K7SMA K4BSK W4ATL K15YG	3,162 1,219 1,368 0 494 11,960 2,704 12,765 24 966 4,012 6 6,655 153 253 4,465 396 7,380 871 143 56 912 688 56
Atlantic Central Dakota Hudson Midwest New England Northwestern Pacific Roanoke Southwestern West Gulf Canada Single-Operator, 3-Band Atlantic Canada Central Dakota Delta Great Lakes Hudson New England Northwestern Roanoke Southeastern West Gulf Single-Operator, FM-Only Atlantic Delta Pacific	W9SZ NIØW WB2AMU NØJK N1PRW W7LUD KB5WIA KC8KSK N6NB N5ZPG VE3EG KV2M VE3RCN K9MU NØAT W4TTM AC8HU K2UNK N1ZN K7SMA K4BSK W4ATL K15YG	3,162 1,219 1,368 0 494 11,960 2,704 12,765 24 966 4,012 6 6,655 153 253 4,465 3966 7,380 871 143 56 912 688 56 75
Atlantic Central Dakota Hudson Midwest New England Northwestern Pacific Roanoke Southwestern West Gulf Canada Single-Operator, 3-Band Atlantic Canada Central Dakota Delta Great Lakes Hudson New England Northwestern Roanoke Southeastern West Gulf Single-Operator, FM-Only Atlantic Delta	W9SZ NIØW WB2AMU NØJK N1PRW W7LUD KB5WIA KC8KSK N6NB N5ZPG VE3EG KV2M VE3RCN K9MU NØAT W4TTM AC8HU K2UNK N1ZN K7SMA K4BSK W4ATL K15YG	3,162 1,219 1,368 0 494 11,960 2,704 12,765 24 966 4,012 6 6,655 153 253 4,465 396 7,380 871 143 56 912 688 56

Limited Multioperator Atlantic Delta Great Lakes Hudson New England Pacific Roanoke Rocky Mountain West Gulf Canada	W3SO NE5BO N8ZM W2LV K1WHS K6EU K8EP KØGU K5QE VE3RB	197,354 13,363 54,954 117,245 213,280 2,987 166,470 680 78,470 714
Multioperator Atlantic Central Delta Hudson Midwest New England Northwestern Pacific Roanoke Southwestern West Gulf	K2LIM N2BJ N4JQQ NY2NY KØKAN W2SZ W7VB WE6C K8GP W6TE KBØHH	187,200 12,685 11,715 8,736 30,392 920,816 1,650 256 546,621 143,330 59,800
Classic Rover Atlantic Central Dakota Delta Midwest New England Northwestern Pacific Roanoke Southwestern West Gulf Canada	WA3PTV W9SNR/R KCØP/R AG4V/R KØDAS/R KB1EKZ/R KD7TS K6FGV/R W4WNT/R AF60/R W9FZ/R VE3SMA/R	51,525 40,495 6,304 34,104 26,070 34,568 11,528 189,849 56 83,076 37,341 99,964
Limited Rover Atlantic Central Dakota Delta Great Lakes Hudson New England Northwestern Rocky Mountain Southwestern West Gulf Canada	K2QO/R K9JK/R KØBBC/R W5VY W8ISS/R N2ZBH/R W1PL WW7D/R W3DHJ/R K6LMN/R AF5Q VE3RKS/R	63,900 12,528 5,916 6,996 969 19,080 2,666 26,542 867 1,120 2,436 36
Unlimited Rover Atlantic Great Lakes Hudson Midwest New England Roanoke	N2SLN/R KF8QL/R WA2TTP/R WAØRKQ/R KJ1K N4DBR	46,736 14,094 3,161 946 9,315 3,379

902 MHz **QSO Leaders By Band** Single Operator Low Power K1TR 28 AF1T 18 50 MHz WB1GQR 17 K1KG 17 WB1GQR 189 K2DRH 15 173 K1TR K2KIB 13 K2DRH 112 WB2JAY 12 AF1T 104 WA2VNV 12 N3RN 89 **WA3EOQ** 9 WB2JAY 75 W3SZ 9 K2KIB 63 N4QWZ 8 AF6RR 57 W3EKT 7 WA2VNV 57 7 WB3IGR K1KG 56 WZ8T 5 KN2GSP 56 AF6RR 5 N1JW 55 AC1J 54 1296 MHz W3EKT 52 AJ3T 50 K1TR 28 WB1GQR 26 N9DG 50 AF1T 25 144 MHz K1KG 24 K2DRH 20 WB1GQR 188 WA2VNV 18 K1TR 175 AC1J 18 K2DRH 125 K2KIB 15 WB2CUT 118 N3RN 15 AF1T 105 WB2JAY 15 K2KIB 102 K6TSK 15 N3RN 90 KEØCO 13 WB2JAY 77 **WA3EOQ** 13 WA2VNV 77 KG7P 9 N9DG 75 W3EKT 9 N4QWZ 72 AF6RR 9 AF6RR 69 K1KG 66 Single Operator High Power **WA3EOQ** 59 50 MHz WZ8T 59 WA2FGK 201 222 MHz K1TEO 144 WB1GQR 75 137 W3EP K1TR 74 K3TUF 121 K2DRH 60 K1RZ 109 N3RN 48 W3PAW 109 46 AF1T K7CW 97 K2KIB 42 WA4NJP 92 K1KG 37 VE7JH 85 WB2JAY 36 WØUC 76 WA2VNV 36 K8ZES 75 N4QWZ 34 70 W3IP KX4R 32 K3ZO 67 **WA3EOQ** 31 W4ZRZ 65 WS3C 29 N2WK 63 N9DG 29 AB0RX 25 144 MHz K1TEO 228 432 MHz K1RZ 194 K1TR 107 WA2FGK 151 WB1GQR 88 K3TUF 146 K2DRH 76 W3PAW 136 AF1T 62 K2OS 120 N3RN 56 WA4GPM 89 N4QWZ 47 VE7JH 87 46 WB2JAY K1DQV 84 K2KIB 45 W5MRB 82 42 AF6RR KAØRYT 81 WA2VNV 41 N2GHR 80 K1KG 40 K9MK 80 KX4R 39 K8TQK 79 37 N9DG 79 K9EA W3EKT 36

WA3EOQ

35

222 MHz		N7EPD	11
K1TEO	97	WA3SRU	11
WA2FGK	83	Multioperator	
K1RZ	83	50 MHz	
K3TUF	76	50 MHZ	
W3PAW	51	W2SZ	398
VE3ZV WØUC	45 44	K1WHS -L	324
W5MRB	37	K8GP	310
WA3SRU	36	K2BAR -L W2EA	261 261
N2GHR	34	K8EP -L	258
K8TQK	33	W2LV -L	256
W3IP	32	W4IY	255
K1GX	31	K2LIM	232
K8ZES W4ZRZ	30 30	W3SO -L	225
	30	W4NH -L	198
432 MHz		AA4ZZ -L K2ZD	183
K1TEO	129	K3EOD	133 97
WA2FGK	102	N2NT -L	94
K1RZ	100		
K3TUF	92	144 MHz	
N2GHR	55	K8GP	365
W3PAW	53	W2SZ	364
VE7JH VE3ZV	50	K1WHS -L	314
W4ZRZ	49 49	K8EP -L	287
W5MRB	49	W3SO -L	276
WØUC	44	K2LIM W2LV -L	262 259
N7EPD	40	AA4ZZ -L	239
W3IP	40	W4IY	218
K9EA	38	W2EA	213
KFØM	37	W4NH -L	198
WA3SRU	37	K2BAR -L	185
902 MHz		K5QE -L	157
K1RZ	44	N8ZM -L N2NT -L	140 98
K1TEO	39		90
K3TUF	39	222 MHz	
WA2FGK	30	W2SZ	146
W3PAW	22	K8GP	136
WØUC	17	K1WHS -L	115
N2GHR	15	W3SO -L	103
KC6ZWT K1GX	15 15	K2LIM	98
VE3ZV	12	K8EP -L W2LV -L	85
WB2RVX	11	WZLV -L W4IY	80 63
K8TQK	11	W4NH -L	61
W3IP	9	W2EA	60
W5MRB	9	K2BAR -L	60
W1FKF WA3SRU	8 8	AA4ZZ -L	59
	8	W6TE	51
1296 MHz		K3EOD N3MK	40 34
K1TEO	52	КВОНН	34
K1RZ	50		54
K3TUF	46	432 MHz	
WA2FGK	42	W2SZ	205
WØUC	23	K1WHS -L	186
W3PAW	18	K8GP	176
N2GHR W1ZC	18 17	W3SO -L	135
K8TQK	16	AA4ZZ -L	113
K1GX	16	W2LV -L W4NH -L	110 96
VE3ZV	14	K2LIM	96 93
KC6ZWT	13	K8EP -L	90 90
W1FKF	12	W4IY	78
W5MRB	12	K2BAR -L	68
WB2RVX W3HMS	11 11	W6TE	66
K3MD	11	K5QE -L	60
W3IP	11	KBØHH W2EA	56 49
K7ND	11	W2EA	49

902 MHz		144 MHz	
W2SZ	88	K2DRH	48
W6TE	41	N4QWZ	40
K8GP	29	KX4R	36
K1WHS -L	29	K1TR	36
КВЙНН	19	ABØRX	34
W2EA	18	N3RN	31
K2LIM	11	K2KIB	30
K3EOD	10	N9DG	29
W1XM	8	WB1GQR	27
N4JQQ	7	WA3EOQ	27
KC5MVZ	2	WZ8T	25
W6RKC -L	1	N9TZL	24
AA1AR	1	NØLL	24
	1	WØHXL	24
1296 MHz		WB2CUT	23
W2SZ	05	AF1T	23
	95	VA3ZV	23
W6TE K8GP	50 45		
KOGP K1WHS -L		222 MHz	
KIWHS-L	39 23	K2DRH	34
W2EA	23	KITR	34 29
WAIY	18	N4QWZ	29 27
K2LIM	17	KX4R	24
KØKAN	16	WB1GQR	24 23
K3EOD	15	K2KIB	23
W1XM	12	N3RN	22
N2BJ	11	ABØRX	22
W5CSC -L	10	WA3EOQ	21
N4JQQ	6	WZ8T	18
W3RFC -L	4	AF1T	17
	•	N9DG	17
Single Operator Portable		WS3C	17
50 MHz		K1KG	17
		N9TZL	17
W7LUD	78		
N6NB	44	432 MHz	
N6LB	37	K2DRH	32
WB2AMU	27	N4QWZ	32 31
KB5WIA	19	K1TR	29
KC2VLG	16	KX4R	23
KQ2RP	14	N3RN	22
N1PRW	14	WA3EOQ	22
KI6QEL	11	K2KIB	21
VE3EG	10	N9TZL	21
NIØW	8	WB1GQR	20
W3MEO	6	WZ8T	19
AC2GJ	3	N9DG	19
WØLLN	2	VA3ZV	17
N5ZPG	1	K1KG	17
KF6CVA	1	AF1T	16
		WA2VNV	16
Multiplier Leaders By Band		NØLL	16
		W3EKT	16
Single Operator Low Power		902 MHz	
50 MHz			
	4.4	K2DRH	12
K2DRH	44	K1TR	11
N4QWZ	29	WA2VNV	9
N3RN	26	WB1GQR	9
K1TR	25	AF1T	8
WA3EOQ	23	K1KG	8
WB1GQR N9DG	23	WB2JAY	7
	23 22	K2KIB	7
KX4R		N4QWZ	7
AF1T WZ8T	21	W3SZ	7
ABØRX	20 20	WA3EOQ	6
		WZ8T	5
K2KIB WB2JAY	19 15	AF6RR	4
NØLL	15	WB3IGR	4
W3EKT	15	W3EKT	3
K1KG	15	WØJT	3
	10		

1296 MHz		432 MHz	
K2DRH	13	K1TEO	39
K1KG	10	K1RZ	35
N3RN		WA2FGK	
	10		32
WB1GQR	9	W5MRB	32
WA2VNV	9	K3TUF	32
AF1T	9	K8TQK	29
WA3EOQ	8	W3PAW	28
WB2JAY	8	VE3ZV	25
K1TR	8	W4ZRZ	25
K2KIB	8	K8ZES	23
VA3ZV	7	K9CT	23
W3SZ		K9EA	
	7		23
N4QWZ	6	KFØM	21
AC1J	6	N2GHR	20
WZ8T	6	W3IP	19
Single Operator High Power		902 MHz	
50 MHz		K1RZ	20
50 MITZ			
K1TEO	39	K1TEO	19
WA2FGK	39	K3TUF	16
K3TUF	36	WA2FGK	15
		W3PAW	12
W4ZRZ	34	WØUC	11
W3PAW	34	K1GX	9
WA4NJP	32	W5MRB	9
K8ZES	31	N2GHR	9
K1RZ	31	K8TQK	9
WØUC	31	WB2RVX	8
K9CT	30	K9EA	o 7
K8TQK	29		
N2WK	28	VE3ZV	7
W3EP	26	W4ZRZ	6
		K8ZES	5
K3ZO	24	K9CT	5
W3IP	23	WA3SRU	5
W8KEN	23	W3HMS	5
		K2YAZ	5
144 MHz		W9GA	5
		VIJGA	5
\A/2DA\A/	56		
W3PAW	56	1296 MHz	
K1TEO	50	1296 MHz	
K1TEO K8TQK	50 50	1296 MHz K1TEO	26
K1TEO	50 50 49	K1TEO	26 20
K1TEO K8TQK	50 50	K1TEO WA2FGK	20
K1TEO K8TQK K1RZ	50 50 49	K1TEO WA2FGK K3TUF	20 19
K1TEO K8TQK K1RZ W5MRB W4ZRZ	50 50 49 45 43	K1TEO WA2FGK K3TUF K1RZ	20 19 18
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK	50 50 49 45 43 42	K1TEO WA2FGK K3TUF K1RZ K8TQK	20 19 18 14
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF	50 50 49 45 43 42 39	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC	20 19 18 14 13
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT	50 50 49 45 43 42 39 37	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB	20 19 18 14 13 11
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS	50 50 49 45 43 42 39 37 36	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR	20 19 18 14 13 11 11
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT	50 50 49 45 43 42 39 37 36 35	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB	20 19 18 14 13 11
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT VE3ZV	50 50 49 45 43 42 39 37 36 35 33	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR	20 19 18 14 13 11 11
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT VE3ZV K9EA	50 50 49 45 43 42 39 37 36 35 33 33 33	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR W3PAW	20 19 18 14 13 11 11 10 9
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT VE3ZV K9EA K9MK	50 50 49 45 43 42 39 37 36 35 33 33 33 32	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR W3PAW VE3ZV K1GX	20 19 18 14 13 11 11 10 9 9
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT VE3ZV K9EA	50 50 49 45 43 42 39 37 36 35 33 33 33	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR W3PAW VE3ZV K1GX K3MD	20 19 18 14 13 11 11 10 9 9 9
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT VE3ZV K9EA K9MK K8ZES	50 50 49 45 43 42 39 37 36 35 33 33 33 32	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR W3PAW VE3ZV K1GX K3MD K9EA	20 19 18 14 13 11 11 10 9 9 9 8
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT VE3ZV K9EA K9MK	50 50 49 45 43 42 39 37 36 35 33 33 33 32	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR W3PAW VE3ZV K1GX K3MD K9EA WB2RVX	20 19 18 14 13 11 10 9 9 9 8 8
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT VE3ZV K9EA K9MK K8ZES 222 MHz	50 50 49 45 43 42 39 37 36 35 33 33 33 32 31	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR W3PAW VE3ZV K1GX K3MD K9EA WB2RVX K9CT	20 19 18 14 13 11 10 9 9 9 8 8 8 8
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT VE3ZV K9EA K9MK K8ZES 222 MHz K1TEO	50 50 49 45 43 42 39 37 36 35 33 33 33 32 31	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR W3PAW VE3ZV K1GX K3MD K9EA WB2RVX	20 19 18 14 13 11 10 9 9 9 8 8
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT VE3ZV K9EA K9MK K8ZES 222 MHz K1TEO K1RZ	50 50 49 45 43 39 37 36 35 33 33 33 32 31 37 33	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR W3PAW VE3ZV K1GX K3MD K9EA WB2RVX K9CT K8ZES	20 19 18 14 13 11 10 9 9 9 8 8 8 8
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT VE3ZV K9EA K9MK K8ZES 222 MHz K1TEO	50 50 49 45 43 39 37 36 35 33 33 33 32 31 37 33 31	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR W3PAW VE3ZV K1GX K3MD K9EA WB2RVX K9CT	20 19 18 14 13 11 10 9 9 9 8 8 8 8
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT VE3ZV K9EA K9MK K8ZES 222 MHz K1TEO K1RZ	50 50 49 45 39 37 36 35 33 33 32 31 37 33 31 31 31	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR W3PAW VE3ZV K1GX K3MD K9EA WB2RVX K9CT K8ZES Single Operator Portable	20 19 18 14 13 11 10 9 9 9 8 8 8 8
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT VE3ZV K9EA K9MK K8ZES 222 MHz K1TEO K1RZ W5MRB WA2FGK	50 50 49 45 39 37 36 35 33 33 32 31 37 33 31 31 31	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR W3PAW VE3ZV K1GX K3MD K9EA WB2RVX K9CT K8ZES	20 19 18 14 13 11 10 9 9 9 8 8 8 8
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF K4ØRYT K2OS K9CT VE3ZV K9EA K9MK K8ZES 222 MHz K1TEO K1RZ W5MRB WA2FGK K8TQK	50 50 49 45 33 37 36 35 33 33 32 31 37 33 31 31 29	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR W3PAW VE3ZV K1GX K3MD K9EA WB2RVX K9CT K8ZES Single Operator Portable 50 MHz	20 19 18 14 13 11 10 9 9 9 8 8 8 8 8 8
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT VE3ZV K9EA K9MK K8ZES 222 MHz K1TEO K1RZ W5MRB WA2FGK K8TQK K3TUF	50 50 49 45 43 39 37 36 35 33 33 32 31 37 33 31 31 29 29 29	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR W3PAW VE3ZV K1GX K3MD K9EA WB2RVX K9CT K8ZES Single Operator Portable 50 MHz W7LUD	20 19 18 14 13 11 10 9 9 9 8 8 8 8 8
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT VE3ZV K9EA K9MK K8ZES 222 MHz K1TEO K1RZ W5MRB WA2FGK K8TQK K3TUF W3PAW	50 50 49 45 43 39 37 36 35 33 33 32 31 31 31 29 29 29 27	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR W3PAW VE3ZV K1GX K3MD K9EA WB2RVX K9EA WB2RVX K9CT K8ZES Single Operator Portable 50 MHz W7LUD N6NB	20 19 18 14 13 11 10 9 9 9 8 8 8 8 8 8 10 9
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT VE3ZV K9EA K9MK K8ZES 222 MHz K1TEO K1RZ W5MRB WA2FGK K8TQK K3TUF W3PAW W4ZRZ	50 50 49 45 43 39 37 36 35 33 33 32 31 37 33 31 31 29 29 29 27 24	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR W3PAW VE3ZV K1GX K3MD K9EA WB2RVX K9CT K8ZES Single Operator Portable 50 MHz W7LUD N6NB N6LB	20 19 18 14 13 11 10 9 9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT VE3ZV K9EA K9MK K8ZES 222 MHz K1TEO K1RZ W5MRB WA2FGK K8TUF W3PAW W4ZRZ VE3ZV	50 50 49 45 43 39 37 36 35 33 33 32 31 37 33 31 31 29 29 29 27 24 22	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR W3PAW VE3ZV K1GX K3MD K9EA WB2RVX K9CT K8ZES Single Operator Portable 50 MHz W7LUD N6NB N6LB WB2AMU	20 19 18 14 13 11 10 9 9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT VE3ZV K9EA K9MK K8ZES 222 MHz K1TEO K1RZ W5MRB WA2FGK K8TQK K3TUF W3PAW W4ZRZ VE3ZV K8ZES	50 50 49 45 43 39 37 36 35 33 33 32 31 37 33 31 31 29 29 29 27 24 22 22	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR W3PAW VE3ZV K1GX K3MD K9EA WB2RVX K9CT K8ZES Single Operator Portable 50 MHz W7LUD N6NB N6LB WB2AMU KQ2RP	20 19 18 14 13 11 10 9 9 9 8 8 8 8 8 8 8 8 8 7
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT VE3ZV K9EA K9MK K8ZES 222 MHz K1TEO K1RZ W5MRB WA2FGK K8TQK K3TUF W3PAW W4ZRZ VE3ZV K8ZES K9CT	50 50 49 45 43 39 37 36 35 33 33 32 31 37 33 31 31 29 29 27 24 22 22 22	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR W3PAW VE3ZV K1GX K3MD K9EA WB2RVX K3MD K9EA WB2RVX K9CT K8ZES Single Operator Portable 50 MHz W7LUD N6NB N6LB WB2AMU KQ2RP KB5WIA	20 19 18 14 13 11 10 9 9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT VE3ZV K9EA K9MK K8ZES 222 MHz K1TEO K1RZ W5MRB WA2FGK K8TQK K3TUF W3PAW W4ZRZ VE3ZV K8ZES	50 50 49 45 43 39 37 36 35 33 33 32 31 37 33 31 31 29 29 29 27 24 22 22	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR W3PAW VE3ZV K1GX K3MD K9EA WB2RVX K9CT K8ZES Single Operator Portable 50 MHz W7LUD N6NB N6LB WB2AMU KQ2RP	20 19 18 14 13 11 10 9 9 9 8 8 8 8 8 8 8 8 8 8 7 7 7
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT VE3ZV K9EA K9MK K8ZES 222 MHz K1TEO K1RZ W5MRB WA2FGK K3TUF W3PAW W4ZRZ VE3ZV K8ZES K9CT	50 50 49 45 43 39 37 36 35 33 33 32 31 37 33 31 31 29 29 29 29 29 27 24 22 22 22 22 20	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR W3PAW VE3ZV K1GX K3MD K9EA WB2RVX K9CT K8ZES Single Operator Portable 50 MHz W7LUD N6NB N6LB WB2AMU KQ2RP KB5WIA VE3EG	20 19 18 14 13 11 10 9 9 9 8 8 8 8 8 8 8 8 7 7 7 6
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT VE3ZV K9EA K9MK K8ZES 222 MHZ K1TEO K1RZ W5MRB WA2FGK K8TQK K8TQK K3TUF W3PAW W4ZRZ VE3ZV K8ZES K9CT K9EA WØUC	50 50 49 45 43 39 37 36 35 33 33 32 31 37 33 31 31 29 29 29 29 27 24 22 22 22 22 22 22 22 20 20 20	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR W3PAW VE3ZV K1GX K3MD K9EA WB2RVX K9CT K8ZES Single Operator Portable 50 MHz W7LUD N6NB N6LB W7LUD N6NB N6LB W82AMU KQ2RP KB5WIA VE3EG W3MEO	20 19 18 14 13 11 10 9 9 9 8 8 8 8 8 8 8 8 7 7 6 5
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT VE3ZV K9EA K9MK K8ZES 222 MHz K1TEO K1RZ W5MRB WA2FGK K8TQK K3TUF W3PAW W4ZRZ VE3ZV K8ZES K9CT K3TUF W3PAW W4ZRZ VE3ZV K8ZES K9CT K3TUF W3PAW W4ZRZ VE3ZV K8ZES K9CT K3TUF W3PAW W4ZRZ VE3ZV K8ZES K9CT K3TUF W3PAW W4ZRZ VE3ZV K8ZES K9CT K3TUF W3PAW W4ZRZ VE3ZV K8ZES K9CT K3TUF W3PAW W4ZRZ VE3ZV K8ZES K9CT K3TUF W3PAW W4ZRZ VE3ZV K3ZV	50 50 49 45 43 39 37 36 35 33 33 32 31 37 33 31 31 29 29 29 27 24 22 22 22 22 22 20 20 17	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR W3PAW VE3ZV K1GX K3MD K9EA WB2RVX K9CT K8ZES Single Operator Portable 50 MHz W7LUD N6NB N6LB W7LUD N6NB N6LB W82AMU KQ2RP KB5WIA VE3EG W3MEO N1PRW	20 19 18 14 13 11 10 9 9 9 8 8 8 8 8 8 7 7 6 5 5
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT VE3ZV K9EA K9MK K8ZES 222 MHZ K1TEO K1RZ W5MRB WA2FGK K8TQK K8TQK K3TUF W3PAW W4ZRZ VE3ZV K8ZES K9CT K9EA WØUC	50 50 49 45 43 39 37 36 35 33 33 32 31 37 33 31 31 29 29 29 29 27 24 22 22 22 22 22 22 22 20 20 20	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR W3PAW VE3ZV K1GX K3MD K9EA WB2RVX K9CT K8ZES Single Operator Portable 50 MHz W7LUD N6NB N6LB W7LUD N6NB N6LB W82AMU KQ2RP KB5WIA VE3EG W3MEO N1PRW NIØW	20 19 18 14 13 11 10 9 9 8 8 8 8 8 8 10 9 8 8 7 7 6 5 5 5 5
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT VE3ZV K9EA K9MK K8ZES 222 MHz K1TEO K1RZ W5MRB WA2FGK K8TQK K3TUF W3PAW W4ZRZ VE3ZV K8ZES K9CT K3TUF W3PAW W4ZRZ VE3ZV K8ZES K9CT K3TUF W3PAW W4ZRZ VE3ZV K8ZES K9CT K3TUF W3PAW W4ZRZ VE3ZV K8ZES K9CT K3TUF W3PAW W4ZRZ VE3ZV K8ZES K9CT K3TUF W3PAW W4ZRZ VE3ZV K8ZES K9CT K3TUF W3PAW W4ZRZ VE3ZV K8ZES K9CT K3TUF W3PAW W4ZRZ VE3ZV K3ZV	50 50 49 45 43 39 37 36 35 33 33 32 31 37 33 31 31 29 29 29 27 24 22 22 22 22 22 20 20 17	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR W3PAW VE3ZV K1GX K3MD K9EA WB2RVX K9CT K8ZES Single Operator Portable 50 MHz W7LUD N6NB N6LB WB2AMU KQ2RP KB5WIA VE3EG W3MEO N1PRW NIØW KC2VLG	20 19 18 14 13 11 10 9 9 9 8 8 8 8 8 10 9 8 8 7 7 6 5 5 5 4
K1TEO K8TQK K1RZ W5MRB W4ZRZ WA2FGK K3TUF KAØRYT K2OS K9CT VE3ZV K9EA K9MK K8ZES 222 MHz K1TEO K1RZ W5MRB WA2FGK K8TQK K3TUF W3PAW W4ZRZ VE3ZV K8ZES K9CT K3TUF W3PAW W4ZRZ VE3ZV K8ZES K9CT K3TUF W3PAW W4ZRZ VE3ZV K8ZES K9CT K3TUF W3PAW W4ZRZ VE3ZV K8ZES K9CT K3TUF W3PAW W4ZRZ VE3ZV K8ZES K9CT K3TUF W3PAW W4ZRZ VE3ZV K8ZES K9CT K3TUF W3PAW W4ZRZ VE3ZV K8ZES K9CT K3TUF W3PAW W4ZRZ VE3ZV K3ZV	50 50 49 45 43 39 37 36 35 33 33 32 31 37 33 31 31 29 29 29 27 24 22 22 22 22 22 20 20 17	K1TEO WA2FGK K3TUF K1RZ K8TQK WØUC W5MRB N2GHR W3PAW VE3ZV K1GX K3MD K9EA WB2RVX K9CT K8ZES Single Operator Portable 50 MHz W7LUD N6NB N6LB W7LUD N6NB N6LB W82AMU KQ2RP KB5WIA VE3EG W3MEO N1PRW NIØW	20 19 18 14 13 11 10 9 9 8 8 8 8 8 8 10 9 8 8 7 7 6 5 5 5 5

AC2GJ	2	K8EP -L	51
WØLLN	1	W3SO -L	48
KF6CVA	1	K2LIM	47
N5ZPG	1	K5QE -L	44
144 MHz		W2SZ	41
		W2EA	37
KC2VLG	14	W2LV -L	35
W7LUD	12	K2ZD	35
N6NB	10	N8ZM -L	34
NIØW	10	K2BAR -L	28
W9SZ	9		
VE3EG	8	144 MHz	
KB5WIA	8	K5QE -L	90
WB2AMU	7	K8GP	82
N6LB	7	W4NH -L	76
N1PRW	5	W4IY	69
KQ2RP	5	AA4ZZ -L	68
WØLLN	3	W3SO -L	64
KI6QEL	3	K8EP -L	64
KC8KSK	2	N8ZM -L	56
KF6CVA	1	K2LIM	52
N5ZPG	1	K1WHS -L	50
		W2LV -L	43
222 MHz		W2SZ	42
N6NB	11	W2EA	37
W7LUD	7	КВØНН	34
W9SZ	5	KØKAN	31
VE3EG	4	NE5BO -L	31
KB5WIA	4		
NIØW	3	222 MHz	
WB2AMU	2	K8GP	47
KI6QEL	2	W3SO -L	45
KF6CVA	1	W2SZ	40
N1PRW	1	W4NH -L	40
N5ZPG	1	K2LIM	40
	•	AA4ZZ -L	36
432 MHz		K8EP -L	32
NOND		W4IY	32
N6NB	11	K1WHS -L	32
W7LUD	7	KØKAN	26
KB5WIA	7	W2LV -L	25
W9SZ KC2VLG	6	W2EA	25
NIØW	5	N8ZM -L	24
VE3EG	5 3	K2BAR -L	23
KI6QEL	3	N3MK	22
WB2AMU	2		
N6LB	2	432 MHz	
WØLLN	2	K8GP	56
N1PRW	2	AA4ZZ -L	55
KQ2RP	2	W4NH -L	48
N5ZPG	- 1	W3SO -L	45
KF6CVA	1	W4IY	40
KC8KSK	1	W2SZ	41
	-	K8EP -L	39
902 MHz		K1WHS -L	38
N6NB	8	K5QE -L	35
W9SZ	о З	K2LIM	34
W9SZ W7LUD	3 2	W2LV -L	28
N6LB	1	N8ZM -L	28
NOLD	I	KØKAN	25
1296 MHz		КВЙНН	23
NOND	2	N3MK	22
N6NB	9	W2EA	22
W9SZ	3		
W7LUD	2	902 MHz	
Multioperator		W2SZ	26
50 MHz		K1WHS -L KBØHH	14 13
	22	W2EA	13
K8GP	68	K8GP	
W4NH -L	62		11
W4IY	60	W6TE	10
AA4ZZ -L	56	K2LIM N4JQQ	9 7
K1WHS -L	52		1

K3EOD W1XM KC5MVZ W6RKC -L AA1AR 1296 MHz	6 4 2 1 1
1230 WIT12	
W2SZ KBØHH K1WHS -L K8GP KØKAN K2LIM W2EA W4IY W6TE K3EOD N4JQQ N2BJ W1XM W5CSC -L K1HC	29 17 15 14 13 13 12 11 8 6 6 5 5 2

 902 MHz

 N6NB
 39

 W7LUD
 5

 W9SZ
 3

 N6LB
 1

 1296 MHz
 1

 N6NB
 47

 W7LUD
 6

 W9SZ
 3

-L denotes Limited Multioperator

-L denotes Limited Multioperator

144 MHz

W7LUD N6NB KC2VLG KB5WIA N6LB WB2AMU NIØW KI6QEL VE3EG W9SZ N1PRW KQ2RP WØLLN KC8KSK KF6CVA N5ZPG	72 47 33 29 28 19 19 18 14 13 12 10 10 2 1 1
222 MHz	
N6NB W7LUD KB5WIA KI6QEL W9SZ WB2AMU VE3EG NIØW N5ZPG N1PRW	48 20 9 8 7 6 5 5 1 1
432 MHz	
N6NB W7LUD KC2VLG KB5WIA KI6QEL WØLLN W9SZ NI0W N6LB WB2AMU VE3EG N1PRW KQ2RP N5ZPG KF6CVA KC8KSK	49 38 23 19 14 9 8 8 7 7 6 5 2 1 1