



# ARRL June VHF Contest

## 2020 Full Results

By Phil Koch, K3UA ([k3ua1541@me.com](mailto:k3ua1541@me.com))

### How were those Digital Modes?

The FT8 mode provided an excellent means to work DX as well as single-hop and multiple-hop paths while utilizing simple antennas and low power. But with the new FT4 mode this year the digital rates increased dramatically and lots of stations used the FT4 mode to full advantage with activity primarily on 50.318. Even though the Big Gun antennas are much better, the Little Pistol folks were able to enjoy amazing success working new grids and new countries utilizing FT8 and FT4. But always remember that when the band is really open then use the SSB and CW modes for greater Q totals.

### Notes on FT8 and FT4

If you suddenly see your FT8 spectrum “light up” on 6 meters in the June contest, it may be time to take a break from FT8 and FT4 and go to SSB and CW to take advantage of the higher rates possible on those modes. Then return to the FT modes as SSB and CW rates start to fall.

### Notes on MSK144

The MSK144 mode in WSJT-X allows meteor scatter contacts at distances similar to single-hop E-skip. If you haven't tried this mode, consider giving it a spin on 6 meters in the next VHF+ contest. You can watch people setting up MSK144 skeds on the PingJockey webpage ([www.pingjockey.net/cgi-bin/pingtalk](http://www.pingjockey.net/cgi-bin/pingtalk)) and the best time of day for meteor scatter is in the early morning.

In summary, keep an eye on conditions and adjust your operating accordingly. Take advantage of the rates available on SSB and CW when the band is fully open.

### There was plenty of DX activity...

Although the June VHF Contest activity is primarily from US and Canada there were some faithful calls active from the DX side. Several Mexico and Caribbean stations were active to represent North and South America. Europe calls were active according to logs received but no Europe stations submitted logs for the 2020 event.

Alaska and Hawaii were active with logs being submitted by AL7JK, KL1JP, KL2DN, KL2R, KL4E, KL5AF, KL7UW, KL7VHF/R, NL7B/R, WL7ZZ/R, KH6CJJ, KH6U, NH6Y.

Mexico was very well represented with the following calls submitting logs:

SOLP: XE2JS, XE2YWH, XE2NK, XE1HG, XE2N, XE2OK, XE1EE, XE1H

SOHP: XE2X, XE2CQ, XE2NBW

SO3B: XE2YWB, XE2SOZ

Also from North America we had three entries from Cuba – CM2RSV, CO2BK, and CO8ZZ – all three SOLP. The remaining logs submitted from North America are FG8OJ, HI8DL and J68HZ.

South America was represented with two logs – PV8DX from Brazil and 9Y4D from Trinidad.

JP1LRT was the only log submitted from Asia.

Thanks to all for being active and submitting logs.

### Category Abbreviations

Single-Op HP/LP – SOHP/SOLP  
Single-Op Portable – SOP  
Single-Op 3 Bands Only – SO3B  
Single-Op FM Only – SOFM  
Multiop Limited/Unlimited – LM/UM  
Rovers Classic/Limited/Unlimited – R/RL/RU

### Single Operator Results – Low and High Power

Congratulations to Mitch W1SJ for reaching the top spot in the SOLP category. AF1T moved up one position placing in the number 2 spot. Bob K2DRH is 3<sup>rd</sup>. These three ops managed some movement in the top three positions but their scores all very close. N0UR moved up from his number 6 spot in 2019 to end up 4<sup>th</sup> in 2020 with N2WK landing in the number 5 spot. Rounding out the Top Ten we have WA3NUF, W0ZQ, W9GA, N0LL and KA0PQW. W9GA and N0LL repeated their Top Ten finishes from 2019 with W9GA repeating his number 8 position. Great job everyone!

### Single Operator, Low Power

WB1GQR (W1SJ, opr)	213,060
AF1T	210,532
K2DRH	191,673
NØUR	150,017
N2WK	136,040
WA3NUF	114,696
WØZQ	109,850
W9GA	107,262
NØLL	101,568
KAØPQW	82,908

Now for the SOHP results: Returning to the Top Ten in 2020 are K1TEO, K1RZ, K9CT, N2YB and K1KG. Congrats once again to Jeff K1TEO for repeating as the top score SOHP. K1RZ moves up from the number 9 spot last year to secure the number 2 slot. But not far behind is K1BX in the 3<sup>rd</sup> position. Craig K9CT lands in 4<sup>th</sup> with George K5TR securing the number 5 spot.

### Single Operator, High Power

K1TEO	506,989
K1RZ	290,830
K1BX	282,746
K9CT	261,375
K5TR	239,705
W5ZN	205,700
N2YB	178,088
KC4PK	165,438
K1KG	159,378
WA1T	154,088

W5ZN captured the 6<sup>th</sup> position. N2YB repeats his 7<sup>th</sup> place finish as he did in 2019. Rounding out the remaining Top Ten are KC4PK, K1KG and WA1T. A hearty congratulations to all!



KB5PRZ/KA5D/R, W5TN/R, K2EZ/R and KD5IKG/R pose with their rover vehicles during one of several point and shoot spots. [Kyle DeHaas, 5A5D, photo]

### Single Operator Portable Results

WA2TMC is the winner this year — up from 2<sup>nd</sup> place in 2019. Great job Bruce! The number 2 position goes to Tom W4RXX. Third place goes to NØJK. In the fourth slot we have KCØSKM. Rounding out the top five is K3HW. And finally, the remaining slots 6 through 10 were achieved by WB2AMU, W7JET, WD5AGO, KD8RTT and K7JSG respectively. WB2AMU improved his number 10 showing in 2019 to 6<sup>th</sup>. Great job all.

### Single Operator, Portable

WA2TMC	24,780
W4RXX	12,416
NØJK	7,242
KCØSKM	6,552
K3HW	4,558
WB2AMU	4,232
W7JET	3,164
WD5AGO	2,535
KD8RTT	2,508
K7JSG	2,052

### Single Operator, 3 Band Results

KO9A repeats as the winner of the SO3B category — increasing his score by nearly 50K over his 2019 score. Fantastic job Jim! N4OGW repeats as the 2<sup>nd</sup> place finisher. Tor more than doubled his 2019 score. K2PS lands in 3<sup>rd</sup> place moving up from number 9 in 2019. NS4T is 3<sup>rd</sup> and AG4W rounds out the top five in 5<sup>th</sup> place. Rounding out the top ten are NØHJZ, VE3KI, KK4MA, VE3SST and VA3ASE. Wonderful job everyone!

### Single Operator, 3 Band

KO9A	139,332
N4OGW	106,023
K2PS	68,040
NS4T	66,912
AG4W	58,680
NØHJZ	56,261
VE3KI	51,948
KK4MA	48,513
VE3SST	47,813
VA3ASE	46,269

### Single Operator, FM Only Results

This year's SOFM winner WG4I achieved an excellent showing with 6,183 points - easily outdistancing the rest of the Top Ten by a sizeable margin. The number 2 spot belongs to KC6ZWT with 2,975 points. 3<sup>rd</sup> place goes to KG7AZY with 1,177 points. The bottom four scores Top Ten are so close ranging from 264 to 294 points.

### Single Operator, FM Only

WG4I	6,183
KC6ZWT	2,975
KG7AZY	1,177
WB6ETY	884
KG5UNK	522
KC9PCP	336
W7AIT	294
AE6GR	287
K6QCB	264
W6ESL	264

### Unlimited Multioperator

K8GP	212,925
W2AAU	202,080
KE1LI	131,005
KD2LGX	122,170
W9XA	107,217
W4IY	98,450
N3NGE	61,759
KV1J	60,711
N8GA	59,444
AG4V	41,454

### Multiop Results – Limited and Unlimited

KG5CCI and crew hit the high notes this year and topped the LM category! The crew of Dave KG5CCI, Wyatt ACØRA and Matt NJ4Y worked hard and it paid off. Congrats! The crew of N2NT, N2NC, and WW2Y worked their wonders once again to pilot the N2NT station to their third consecutive 2<sup>nd</sup> place finish in LM. In the number 3 slot we have KZ9O. And repeating in 4<sup>th</sup> place from last year is AA4ZZ. K5QE is number 5 this year after winning in 2019. The remaining five positions for 2020 are N4SVC, N4WW, K3CT, WD9EXD and W1QK. K3CT was 9<sup>th</sup> last year improving to 8<sup>th</sup> in 2020. Fine job by all!

#### Limited Multioperator

KG5CCI	404,505
N2NT	318,052
KZ9O	240,816
AA4ZZ	225,806
K5QE	220,640
N4SVC	171,360
N4WW	151,048
K3CT	104,988
WD9EXD	82,593
W1QK	77,558

The new winner for UM is K8GP. K8GP and crew were 3<sup>rd</sup> in 2019 as LM entry. Excellent job for sure! Holding onto 2<sup>nd</sup> place is W2AAU followed by KE1LI landing in the 3<sup>rd</sup> spot. KE1LI was 10<sup>th</sup> in 2019. Bettering their 9<sup>th</sup> place showing in 2019 and landing in 4<sup>th</sup> is the group at KD2LGX. The ops at W9XA held onto number 5 just as they did last year. And completing the Top Ten UM are W4IY, N3NGE, KV1J, N8GA and AG4V. N8GA was 6<sup>th</sup> last year and again returning to the Top Ten and AG4V was 7<sup>th</sup> Classic Rover last year and decided on doing UM this year. Congratulations for some very big efforts!

### And there were Rovers...

Classic Rovers (R) can haul equipment for as many bands as the multi-ops to multiple locations. By doing so they help fixed stations through the lean hours with new grid multipliers from running the bands.

For the Classic Rovers, Andrea K2EZ/R landed in the top position – a very fine effort Andrea! Andrea has mainly operated Limited Rover but made the change this year. Be sure to read Andrea's summary elsewhere in this article. Jarred, KF2MR/R landed in this year's number 2 position. And securing 3<sup>rd</sup> this year is KA2LIM/R. N7GP/R is 4<sup>th</sup> sliding from his 2<sup>nd</sup> place showing in 2019 but with an improved score. Number 5 is Russ VE3OIL/R. Russ was tops in the Classic Rover category last year. Rounding out the Top Ten is K2QO/R (who was also 6<sup>th</sup> last year), VA3ELE/R, W3ICC/R, W4EO/R and W9FZ/R. Super efforts everyone!

#### Classic Rover

K2EZ/R	209,916
KF2MR/R	121,032
KA2LIM/R	110,815
N7GP/R	97,440
VE3OIL/R	84,640
K2QO/R	76,912
VA3ELE/R	64,296
W3ICC/R	56,070
W4EO/R	55,088
W9FZ/R	46,942

#### Limited Rover

K9PW/R	70,680
KA5D/R	42,160
W5TN/R	40,917
NU4E/R	40,293
K5ND/R	39,072
KEØMHJ/R	35,836
NV4B/R	30,804
N6GP/R	20,256
N2DXT/R	19,110
KI5FIQ/R	15,930

## Unlimited Rover

NØLD/R	143,773
KBØYHT/R	64,295
KD5IKG/R	62,524
K6MI/R	39,039
K9JK/R	28,980
KG6CIH/R	7,923
K3RW/R	2,508
VE7AFZ/R	1,449
K7ATN/R	114
KD2KAG/R	66

### In-depth Stories and Features

Be sure to read the detailed discussions and blow-by-blow reports of the contest provided by several of the top stations; Single Op, Multiop, and Rovers. They give a detailed look at what the contest was like in their area and in their categories.

For the Limited Rover (RL) category none of the 2020 Top Ten were in the Top Ten last year. K9PW/R outdistanced the competition and took the top position this year. Kyle KA5D/R is 2<sup>nd</sup> this year. W5TN/R, NU4E/R and K5ND/R landed in spots 3, 4 and 5 respectively. And rounding out the Top Ten we have KEØMHJ/R, NV4B/R, N6GP/R, N2DXT/R and KI5FIQ/R. Great job everyone!

And finally, for those that rove- the Unlimited Rover (RU). Moving up from his 2<sup>nd</sup> place finish last year and cementing the number 1 spot this year is Russ, NØLD/R. With KBØYHT/R taking 2<sup>nd</sup> place. Postions 3, 4 and 5 belong to KD5IKG/R, K6MI/R and K9JK/R respectively. And the bottom five of the Top Ten are KG6CIH/R, K3RW/R, VE7AFZ/R, K7ATN/R and KD2KAG/R. Congrats to all!

## Club Competition was fierce as usual

The Affiliated Club Competition for the 2020 June VHF Contest has several position changes from ups and downs to repeat winners.

### Affiliated Club Competition

Club	Score	Entries
<b>Unlimited</b>		
Mt Airy VHF Radio Club	1,939,838	56
Society of Midwest Contesters	1,759,546	78
Potomac Valley Radio Club	1,572,300	101
The Ontario VHF Association	1,379,218	56
<b>Medium</b>		
Yankee Clipper Contest Club	1,129,529	46

North East Weak Signal Group	904,836	19
Northern Lights Radio Society	845,924	25
Frankford Radio Club	552,837	29
Roadrunners Microwave Group	422,900	7
Florida Contest Group	369,035	21
Florida Weak Signal Society	350,724	5
Badger Contesters	336,439	21
Arizona VHF Society	331,831	12
DFW Contest Group	309,240	12
Carolina DX Association	307,747	10
Arizona Outlaws Contest Club	293,963	36
Minnesota Wireless Assn	253,971	22
Alabama Contest Group	242,635	9
Grand Mesa Contesters of Colorado	218,499	12
New Mexico VHF Society	196,632	9
Pacific Northwest VHF Society	164,826	37
North Texas Microwave Society	162,033	4
Michigan VHF-UHF Society	158,402	6
Northern California Contest Club	158,277	36
Tennessee Contest Group	155,128	17
Southern California Contest Club	133,690	28
Great Places Contest Club	114,642	5
Northeast Maryland Amateur Radio Contest Society	114,242	11
Central Texas DX and Contest Club	108,920	10
South East Contest Club	107,088	7
Texas DX Society	100,877	8
North Coast Contesters	94,762	5
Kentucky Contest Group	93,456	8
Contest Club Ontario	64,839	9
South Jersey Radio Assn	60,218	6
Mad River Radio Club	55,130	8
Hudson Valley Contesters and DXers	39,050	6
<b>Local</b>		
Orleans County Amateur Radio Club	275,324	8
Eastern Connecticut ARA	187,776	4
CTRI Contest Group	180,681	9
Chippewa Valley VHF Contesters	163,208	5
The Villages Amateur Radio Club	68,466	4
Bristol (TN) ARC	51,377	6

In 2020 the Unlimited category has the Mt Airy VHF Radio Club barely edging out the Society of Midwest Contesters by only about 200K. The Mt Airy VHF Radio Club had the top spot in the Medium category in 2019 but 10 more entries allowed them to move to Unlimited. Congrats once again to both of these highly competitive contest clubs. The SMC and the Mt Airy group totals are both up from 2019 taking advantage of the better conditions this year. Nice efforts to both clubs.

The Medium Club category winner is the Yankee Clipper Contest Club – moving up from the number 6 position

achieved in 2019. The club's point total was up a whopping 5X over their last year's totals. Congrats to your members! Repeating as the 2<sup>nd</sup> place club is the North East Weak Signal Group. The Northern Lights Radio Society moved into the number 3 slot up from their 4<sup>th</sup> place finish in 2019. The Frankford Radio Club landed in 4<sup>th</sup> up from their 14<sup>th</sup> place finish last year. And rounding out the Top Five we have the Roadrunners Microwave improving from their 7<sup>th</sup> finish last year.

The Local Club winner is the Orleans County Amateur Radio Club. The Eastern Connecticut ARA lands in the second place for 2020. The CTRI Contest Group is up from 4<sup>th</sup> in 2019 to 3<sup>rd</sup> this year. In 4<sup>th</sup> is the Chippewa Valley VHF Contesters. And rounding out the Local Club finals are The Villages Amateur Radio Club and the Bristol (TN) ARC. A great job by all.

Congratulations to all for excellent jobs in the various club categories. It's always great to see clubs rallying the members to be active and make some QSOs regardless of which contest it is.

### The main goal is to have fun!

Being competitive and winning and/or making the Top Ten or Top Five is a great goal and aspiration but the time on the air while actually operating is what it is all about. When the contest finishes and you see how well you did, be sure to always reflect back to what it was like during the contest while operating. Too many times we feel as though the contest effort may seem wasted if we did not win or make whatever top spot goals we had. Let's enjoy the moments of working that new grid, that new country, that new state or that new meteor scatter QSO, etc.

### Station Contest Reports

These stations contributed stories, photos, graphics, and memories of their contest experiences. We are glad to have them — maybe we'll see yours next year! — Ed.



### KL4E "Semi-Permanent" Antenna Array

These three photos show my "semi-permanent" antenna array as mounted on my rooftop in Eagle River, Alaska. I use the term "semi-permanent" because our home was severely damaged in the November 7.1 earthquake and will have to be torn down in the near future. Therefore everything that you see is easily removable in an afternoon and can be broken down and transported to my new QTH hopefully without damage. Since a rotor was not available, I used parachute cord pulling on a steering tiller to access the shack through a scrap plywood window replacement panel. The cord then passes immediately above the operating position to a bungee-tensioned laundry pulley. Small color-coded zipties attached to the parachute cord are used as directional indicators: blue (cold) for north, green for due west, and red (hot) for south. [Craig Bledsoe, KL4E, photos]

## In Their Own Words...

### K2EZ/R June 2020 Rove Report – Winner of Classic Rover

By Andrea K2EZ (*Reprinted with permission from the Pack Rats July 2020 issue of “Cheese Bits”*)

Here is how my rove went.

I was running 8 bands like in January, but this time no snow or ice. I only activated 15 grids this time. Due to some delays, my potential end of contests destinations became too iffy to reach. My rove started Southeast of San Antonio TX and finished just outside Tulsa OK.

A surprising amount of this rove was only loosely planned. I did plan to meet up with a few of the Texas rovers hence my starting location. And I planned to work my way up to where the OK Rovers were active. Pretty much nothing in between went anywhere close to how I thought it might. And as mentioned before, I had to scrap my final run chasing multipliers and fresh Qs which was either going to be towards Memphis, TN or St. Louis, MO.

Unlike other parts of the country, 6m seemed to be inert in the West Gulf region Saturday. The only stations heard on 6m were ones that I, or someone else, QSYed to the band. I heard some FT8, but I was unable to run that at the time.

Sunday, I heard some out of area 6m activity for a short bit mid-day when I was in Oklahoma. I also heard the occasional distant voice that faded in and out. Fortunately, for the last few hours of the contest, 6m opened very strongly and this allowed me to pile on multipliers and extra Qs that made up somewhat for having to cancel the final run. More on that later.

As for technical issues these were rather minor except for one incident that I was able to resolve. This occurred very early in the contest. I was using my air conditioning sparingly due to some problems with the AC compressor. This was only a small discomfort for me, but I started to realize there was a problem when the tablet for my logging system became sluggish and was running slow. A restart didn't help. It was just occurring to me that maybe the temperature had something to do with the slow performance. At that point I remembered I had a temperature problem before with both the Flex Radio and the tablet I use for its console. No sooner do I think this, the tablet for the Flex Radio console shuts off as if it read my mind. I go looking in the back and the Flex Radio starts to indicate over temperature shutdown as well. This had the effect of taking all four of my microwave bands

off the air. To get it all cooled down, I was forced to run the AC continuously. My already unhappy compressor was screaming like a jet engine. This is Texas and what I could get away with up north with AC off, or running intermittently, just wasn't enough here. Despite all the noise, the air conditioning did work. After about 20 minutes, the tablet and Flex Radio cooled enough that I got the micros back up. The sluggishness in my logging system also went away with the cooler temps.

The other technical issue was minor. For some reason my little USB GPS module wouldn't sync again so I couldn't get time lock for digital modes. I could do a reasonable manual setting if my iPhone clock would show seconds but waiting for it to change to the next minute to manually sync is sloppy. I've done it but it takes multiple tries and it is never right on. That has been one irritation about this iPhone. I suppose I could get a third-party app to resolve it. Anyway, digital modes would have been nice to run on the otherwise dead 6m Saturday, especially while moving, but it was what it was. I was more focused on the micros.

For the start of the contest I met up with some of the TX rovers KA5D/R, KD5IKG/R and W5TN/R. These gentlemen were invaluable helping me with the local information about that part of Texas.

Tim KD5IKG had some new hardware for the microwave bands giving us both eight bands. Unfortunately, he had some teething pains, and this gave us some headaches early in the contest when trying to work each other. There seemed to be an intermittent in the switching. So, we ended up working thru those headaches which likely cost us opportunities to catch some other stations.

One of my favorite times during the contest was when there were four of us rovers headed towards a hilltop spot called the “Devil's Backbone” southwest of Austin. We were going to meet up there for dinner as well as some operating. We were proceeding at different times and some had different routes. I was very much the late one and somewhat lost. During this period, we ended up in some different grids in a piecemeal fashion so had opportunities to work each other as well as work a number of the fixed stations that were following us. It was a very active time for all of us.

Thanks to the rovers, I discovered that Texas (and later Oklahoma) does have some big hills.

Much of my time on that hilltop was socializing with the other rovers and some curiosity seekers. It was a bit hard for more than one of us to operate anyway and I was

ready for a break. I was the late one still up on the hill after 9pm while the other rovers were headed home for the overnight. Once they left the hilltop, I started my operation there seriously. It was close to 10 PM when I decided to roll off the hill. My idea that I might continue up the gridline on the west side of the DFW metroplex went out the window as I had a morning appointment in Oklahoma too far to the east. So, after rolling off the hill, I needed a more direct route. That appeared to be a run up I-35 thru Austin, then Waco, before branching on I-35E towards the Dallas side of the metroplex. This didn't let me optimize the number of grids I activated, but my goal for the night was already a solid 5 hours away. It wasn't looking like I would get too much sleep.

I worked a number of fixed stations during the first hour or so of that travel, but fixed stations were calling it a night. That included Ron K5LLL which would have been easy to get 7 or 8 bands for the next couple grids.

K5TR however was working late into the night and seemed to be tracking me on APRS. Not long after I would cross a grid, I could pretty much count on hearing CQ from K5TR on SSB in what otherwise was dead time for all but the diehard ops mostly running meteor scatter. The only other station I heard really late was K5QE. These two stations insured I was able to activate the grids I was passing through during those nighttime hours.

When I got into my desired overnight area, I discovered that some event had caused all the lodging to be booked. After killing a half hour with no luck and seeing my available sleep time dwindle to less than 3 hours, it just became impractical to get a room. Even if I found a place, by the time I checked in, got my stuff in a room, got to bed, and then the time I needed in the morning, my sleep time would be too little to make it worthwhile. At this point I decided it was best to go back to the ole sleep in the car routine. That would give me more sleep even if not as comfortable. I found a distant corner of a Buc-ee's parking lot where the lighting wasn't so bright.

The bad part of this plan was that it was hot. Yes hot, this is Texas. Outside temps had dropped down to mid-70s which was better than normal, but the vehicle was just hot from running all day. Even though the AC had been on, as soon as I turned the engine off, the interior temp climbed. I didn't want to sit parked with car running to keep the AC running. Keeping windows closed and doors locked for security quickly became a non-option if I wanted sleep.

I tried opening the windows and inch or two get some air flow while making it very difficult, if not impossible to reach in. This got a slight cross breeze, but it was still too

hot. I opened the windows some more, but it was still too hot. At this point I was still trying to justify that while the windows were open more, it still offered some degree of security. Yes, someone could reach in and unlock the door, but it would take some time and if they were just trying to grab something it would be a hard reach. Eventually fatigue and the heat took its toll. I decided that the risk of getting murdered or having stuff stolen while I slept was worth it if I could get just some sleep. I rolled the windows all the way down. This improved the cross breeze significantly and I finally got the temp down to a tolerable level. With one arm hanging out a window for extra cooling I finally fell asleep. I woke after dawn, about 6am not having been murdered. As far as I could tell, nothing was taken either. There was already a good amount of activity on 2m. I went into Buc- ee's where I quickly washed up as well as I could. I also changed into some fresh clothes and brushed my teeth. Then I was off again continuing north.

As is typical, the early morning time was fairly busy with lots of fresh stations to work. Even though I was on the north side of Dallas now, I still heard K5TR calling CQ regularly and we were able to work on a few bands. I caught up with two of the OK rovers, NØLD/R and KBØYHT/R, about 10:30am. I ended up sticking with them thru lunch and up to the grid corner in the Tulsa area. They showed me a couple of their hilltop locations where we were able to work a number of the fixed stations. Time just seemed to vanish, and it wasn't long before it was clear that I couldn't make my MO or TN targets without too much risk of falling short.

My last stop with them was a huge hilltop overlooking Tulsa. There was a bit less than 3 hours left in the contest. 6m had opened wide at this point. I never heard 6m open like this before. With so many stations coming in from so many areas, it actually made operation more difficult on SSB than less strong conditions. The Pacific Northwest, Midwest, and East coast were all coming in strong. The crowding was so bad I had very limited luck on SSB so I went to CW which was better. I appreciated Randy NØLD giving digital modes a break to let me work some multipliers. The constant carrier was completely blanking out 6m when they transmitted. I eventually moved off the hilltop to a spot about a half mile down the road to avoid the mutual interference.

With about 90 minutes left in the contest, and the band still hot, I interrupted operation for some photos as the OK rovers were starting their run back towards home. This ended up being about 40 minutes of chatting as curious public came up to ask questions. Public relations is something most every rover has to deal with at one

time or another. Be it answering the curiosity seeker's questions or trying to calm the nerves of the suspicious.

When I finally got back to operating the band had cooled. The southeast was now coming in a little, but much of the northeast was no longer being heard. The upside to this is that SSB became more productive and I alternated between SSB and CW for the last 45 minutes working stations as I found them.

Final score as a Classic Rover: 215,908. If I wanted to put myself in the Limited Rover Category my score would be just under 87K. Not going to do that, it is just a reference point to compare with my prior limited roves where my best score was 70K. Unfortunately, since I was outside of the Packrat's territory, none of my score will count towards the club score. One of these days I will be back in the northeast for a contest.

### N6MI – Operation from Grid Square DM15aa By N6MI

For the June VHF contest (June 13-14, 2020), I drove the N6MI ham van to DM15aa. I camped in the open desert. For a few photos, visit [n6mi.com](http://n6mi.com). It was nice weather. Not too hot during the day and not too cold at night. On Friday, the wind peaked at about 50 miles per hour. However, the wind was usually 20 miles per hour or less. No, I don't use outriggers on the ham van. The Will-Burt pneumatic mast just sways a little... On 6 meters, I operated the Yaesu FTdx101D and ACOM A600S amplifier (about 500 watts on USB and CW). I used a five element yagi at 60 feet. The FTdx101D is a fine contest radio.

I used an ICOM-9700 for 2 (100 watts), 432 (75 watts), and 1.2 (10 watts). I attached an external Leo Bodner Precision GPS Reference Clock; I don't have any drift problems with this setup. On 2 meters, I used a 12 element yagi, mounted about four feet above the six-meter yagi. On 432, I used a mid-sized yagi, about 15 feet high, mounted on a push up mast from Will-Burt. On 1.2, I used a small Comet yagi, about 20 feet high, mounted on the top of the Will-Burt mast. This mast required an "arm strong" rotator. On 223.5 FM (only), I ran 5 watts to a whip on the van roof.

Several hams said, "I have never heard or worked a ham in DM15 on this band." Super! That is why I try to travel to amusing spots for the June VHF contest. This was my first contest with FT8. I like the FT8 activity, but I still prefer voice and CW modes on VHF. On Saturday morning, I received a surprise visit from K6VCR. Tom tracked my location on APRS. We shared (socially distant) cups of coffee and caught up on old times. My

most difficult QSO was with N7DA in DM12. We worked at it until we received some airplane flutter assistance.

Band	Mode	QSOs	Pts	Grd	Pt/Q
50	CW	9	9	4	1.0
50	FT8	51	51	13	1.0
50	USB	38	38	9	1.0
144	CW	2	2	0	1.0
144	FM	1	1	0	1.0
144	USB	24	24	9	1.0
222	FM	5	2	1	2.0
222	USB	4	8	3	2.0
420	FM	1	2	0	2.0
420	USB	16	32	7	2.0
1240	USB	4	12	4	3.0
<b>Total</b>	<b>Both</b>	<b>151</b>	<b>181</b>	<b>50</b>	<b>1.2</b>



N6MI and K6VCR in Grid DM15aa during the June 2020 VHF Contest [Scott Bovitz, N5MI, photo]

### KO9A June 2020 VHF – 3 Band Category Top Score By Jim, KO9A

...and I thought last year was pretty good! Many thanks to K1JT, K9AN, G4WJS, and the entire WSJT dev team...this score just doesn't happen without their tool suite and innovation.

Mode breakdown (includes dupes):

- SSB: 336
- FT8: 257
- FT4: 95
- CW: 20
- MSK144: 8
- FM: 4

W9 was blessed again this year with good conditions both days. Lots of interesting openings and stations available to work. FT4 was great fun the final ~6 hours of the contest. FT4 rates were as good or better than what



I can typically generate off of CW. SSB is still rate king, but FT4/FT8 dominate when conditions are iffy. Hopefully more stations try and stay on FT4 in CQ VHF.

For typical single hop sporadic E FT4 seemed far superior than FT8 to me. Had what I am calling an FT8 only opening to W3 Sunday afternoon where all signals were <-10, many <-20. Great fun to work those stations where no other modes would make it. By the end of the weekend I think all of FN20 was worked, even down to the guys using paperclips for antennas!

Moving to SSB at the first sign of >+10 digital signals paid off again this year as it was easy to tear off a 100-200 hr rate burst before getting chased off frequency by high power stations. Still trying to find the limits of what is possible with a puny station. Sure feels like 225-250 grids might be feasible on 6m...great fun trying to push the envelope! 73 & hope to see you in CQ VHF!

Jim KO9A

## **K5TR June 2020 Report – No. 5 Single Operator, High Power**

*By George, K5TR*

I did not make many changes to the station since last year. I did get somewhat of a station going on 2304 this year and I made a few contacts on that band for the first time. I was not able to get the amp going on 2304 so that limited my range a bit and I am unsure how little power was coming out of the transverter. Something to work on before the next contest.

I have been doing the ARRL June VHF contest almost every year since sometime in the late 1980's. I first came to do 6 meters as I really enjoy the great Es openings that often come during this contest. Last year was one of the worst years for Texas - I only worked 240 contacts on 6m in the 2019 contest. This year was a bit better. The contest started with the band open into the EN grids to the north and signals on 6m were OK. There was also a group of four rovers here in Texas starting to my south at a grid corner.

I ran on 6 meters and picked off stations on the high bands on the second radio. The 6 meter opening only lasted for about the first hour of the contest and then 6 meters closed up a bit and I was working rovers and locals around Texas on the bands.

At 20Z I made my first pass at 6 meter digital working Texas stations that were on that mode - then it was back to 6m SSB for more CQing and the random contact here and there on a mostly 6 meter band. Through the afternoon and evening the rovers were working their way

north and I was running them though the bands as they got to new grids. It was great to have them on as I was not working much on 6 meters during this time.

By 04Z the rovers that live in Austin had stopped at their homes for a good night's rest and I was left with K2EZ/R who was headed north. I started working some stations on 2m MS while keeping tabs on K2EZ's location. MSK on 2m and 6m was giving me some distant grids and contacts. I was on the radio until about 08Z. K2EZ/R was about an hour from the next grid and the MS contacts had slowed and I was tired. My last contact was a quick one with K9CT on 2m MS for a new grid at 0744z. I went to sleep for a few hours as was back up a little after 11Z and made my first contacts on 6m MSK at 11:23z.

By about 14Z 6 meters was showing some signs of life to the east and I started getting answers on SSB into some EM and FM grids. In the 15 and 16 hours I started working some FN grids in New England. By 17Z 6 meters had gotten spotty and poor with some contacts here and there but mostly a lot of CQing. It kept feeling like it would bust open but just never really did. It was not until 00Z that the band would finally open well for the first time all weeknd with the rate finally getting into the 100+/hr range at times. The band was open to Japan and China and other places - K5LLL worked China on FT8. I went up there briefly and worked one or two USA stations as well as getting a report out of BV6CC but not working him. I did not stay long as the rates on SSB were much better, so I was back down on SSB again until the end of the contest where I was getting good answers right up until the end.

And a big thanks to all the stations I worked and the rovers. It was great having K2EZ/R on late into the night and on the high bands - she knows the code and was easy to work on 1.2 and 2.3 even with my poor high band station. And a big thanks to all the other local Texas rovers for all the contacts from all those grids. Always great to have all that activity.

Hope to see you all next time.

The station:

[http://www.kkn.net/~k5tr/blanco/k5tr\\_station.html](http://www.kkn.net/~k5tr/blanco/k5tr_station.html)

50Mhz - Elecraft K3 - 2x 3-500z (1200 watts)

7 element yagi at 75'

7 element yagi at 30'

7 element yagi at 25' fixed Northeast

7 element yagi at 30' fixed Northwest

144Mhz - Elecraft K3 - Elecraft XV144 - W6PO 8877 (1000 watts) 17B2 17 element yagi at 35' Ringo 5/8 wave for FM contacts

222Mhz - Elecraft K3 - Elecraft XV222 - Larcan amp (1000 watts) Cushcraft 15 ele yagi at 30'

432Mhz - Elecraft K3 - Elecraft XV432 - W6PQL amp (1000 watts) 2 high stack M2 432-9WL 28 element yagis at about 40' DB-420 dipole array for FM

902Mhz - Elecraft K3 - DEMI transverter - 50 watt amp - 16 element loop yagi at 30' 1296Mhz - Elecraft K3 - DEMI transverter - 30 watt amp 24 element loop yagi at 30'

2304Mhz - Elecraft K3 - DEMI transverter - 2 watts or less 27 element loop yagi at 30'

10GHZ - Elecraft K3 -> 144 mhz UT5JCW transverter -> DEMI transverter - 3 watts 2 ft dish 30'

(144, 222, 432, 902, 1296, 2304 and 10GHZ are all using the same K3)

## **KG5CCI – Top Score Limited Multioperator**

*By Dave KG5CCI, Wyatt ACØRA and Matt NJ4Y*

The original plan for us this year was to go to Santa Rosa Island, CA and activate CM93... Coronavirus however forced us to push that plan out til 2021. Since KG5CCI had a new QTH out in the mountains of the Ozarks with a somewhat respectable horizon and lots of space to spread, we decided to put on a limited multi-op instead.

Equipment was mostly Wyatt's (ACØRA), some of Dave's (KG5CCI) and 1 radio of Matt's (NJ4Y). Setup was as follows:

6M Station: 1x 6m7 at 45' 1x 6m5 at 35' Icom 7300 Acom 1200s (running mostly ~900w)

2M Station: 1x 12 Element Cushcraft LFA at 45' Icom 9700 LinearAmpUK (Running ~800w)

222mhz Station: 1x 7wl Homebrewed m2 imitation at 32' Yaesu 991 Demi Transverter Surplus Harris Amp (Running ~600w)

70cm Station: 1x 432 9WL m2 Yagi at 35' Icom 9700 (Running 75W)

Other Assorted Gear: 9200 W Champion Generator (Ran whole contest) Couple Pop up Tents 2 Tables (One actual table, one piece of plywood on sawhorses) 3 big old box fans running all the rpms Dedicated Laptops and computers on each band

## **Other Random Notes:**

Wyatt & Dave managed to stay awake for the entire contest, and Matt took about a 3-hour nap between 2AM and 5AM. Wyatt recalls Dave was doing Yoga on a little cooler about 4AM when the EME wasn't going so well... things got a little loopy. W5VY/R and KEØMHJ/R were both super reliable and we ran the bands from numerous grids with them. It was also really cool to get K5ND/R from all bands when he was in EM24, which is a place Dave has operated from many times. Wyatt mostly ran the 6m station, including several very long runs on sideband, which is where most of the QSOs came from... if his voice sounded muffled it was because he was likely eating hotdog kolaches from the Shipley's donuts that is a mile down the road. The new QTH in addition to having a good view, is dangerous to our waistlines. Pretty sure we each gained at least 6 pounds.

All in all it was a super enjoyable contest, we think the score was respectable for our first time doing a multi-op, and we're making bigger and better plans for next year. 73 You Betcha. -Dave, Wyatt and Matt

## **N5ITO June 2020 Report – SOHP from NTX**

*By Dave N5ITO*

After not being active for pretty much a year, I spent the last 6 months doing my best to update the station and make a big bang this last contest..Re-tuned every antenna, updated main feed lines to LMR-600, New amps on 3 of the 4 bands. New radios to include an IC-7300 and an IC-9700. New Hy-Gain Rotor and digital control box.

Things I missed and cost me a few points. Rotor tails were not checked. I was focused to much on the main feed lines. This caused the antennas on 2M and 432 to fail the 2nd day. The 6M Cushcraft is not rated at 1KW, only 500 PEP and it started showing high SWR the 2nd days also. The 2nd day I was down to 1296 at 50W, a 6M loop at 40 feet, and 2M loop at 45 feet. Knowing these were not able to handle 1KW I backed down the amps power to just under 500 Watts. The new amps put out 2Xs the power as before and the lower rated items gave up after a constant 18 hours of 1KW being feed to them. Im thinking the Connectors were not up to stuff and I need to upgrade to much better versions. The SWR rises

as the power is increased and settles back down at lower power. Lesson learned. Don't cheap out on anything if your going QRO.

Overall I feel pretty good. 6M was open in one direction most of the time with a few direction changes through out the contest. 2M did not see an opening, but the M2-18XXX and 1KW while it lasted was reaching out and touching stations 5-600 Miles with ease. 432 Was reaching up to 300 miles, and 1296 was reaching 150 miles.

I did switch between SSB/FT8/FT4, with some MSK meteor scatter on 6/2 when times were slow. Even got in a few JT65 on the higher bands. I wish we had more 432 and 1296 stations on the air for out out in the weeds grids to work.

With that note... This contest was my best contest in 10 years. Hope to see a few of you in the next one!

50 Mhz : 216 Contacts / 110 Grids

144 Mhz : 42 Contacts / 25 Grids

432 Mhz : 5 Contacts / 5 Grids

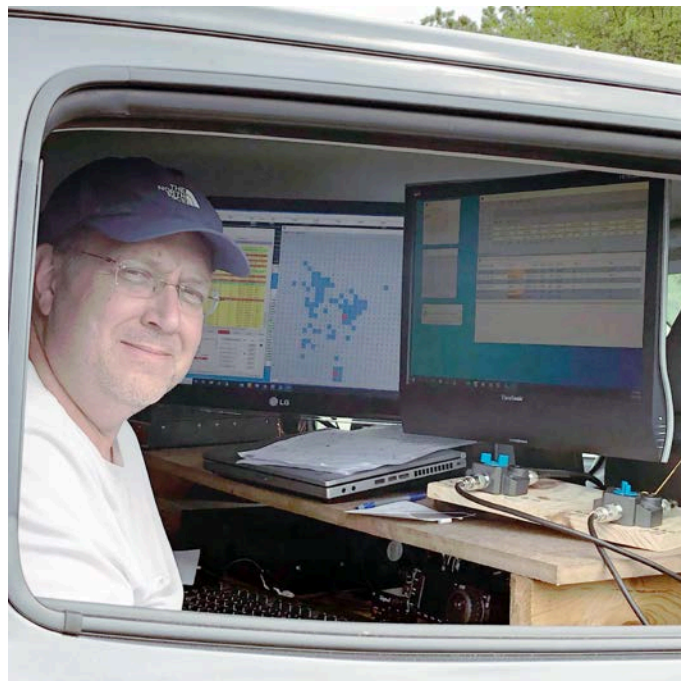
1296 Mhz : 1 Contact / 1 grid

Totals 264 Contacts QSO Points: 271 Multipliers: 141  
Score : 38,211

Dave N5ITO / EM23



Here is the very neat and compact station at N5ITO. Great job Dave!  
[Dave Vondrasek, N5ITO, photo]



KB4BKV takes a few moments (above) to pose for a photo opportunity, his operating location rewarded him with a spectacular sunset. [John Edwards, KB4BKV, photos]

My son, Jason (currently studying for his technician), and I headed up to the northwest corner of FM19 to a mountain in WPA on Saturday morning. The weather was perfect with temperatures in the mid-60's during setup. After making a few phone contacts on 6m, 2m and 70cm, I switched over to FT8 on 6m. It was almost nonstop from there on out on 6m, only taking a few breaks every once in a while to make a few contacts on 2m. Contacts were consistently made on 6m up until around 2am EDT when things slowed significantly and I decided to catch a few hours of sleep in the back of the truck. When starting again around 6am EDT, the action on 6m continued for the remainder of the contest. We only stopped to ensure we didn't have to disassemble and pack up in the dark. (Amazing view of the sunset! - Ed)

## Regional Leaders:

Boxes list call sign, score, and class:

**LM = Limited Multioperator**  
**R = Classic Rover**  
**RL = Limited Rover**  
**RU = Unlimited Rover**  
**SO3B = Single Operator, 3 Band**  
**SOFM = Single Operator, FM Only**  
**SOHP = Single Operator, High Power**  
**SOLP = Single Operator, Low Power**  
**SOP = Single Operator, Portable**  
**UM = Unlimited Multioperator**

<b>West Coast Region (Pacific, Northwestern and Southwestern Divisions; Alberta, British Columbia and NT Sections)</b>		
N7GP/R	97,440	R
WB6HYD/R	16,848	R
KN6HQQ/R	9,072	R
AF6AV/R	6,144	R
AC7SG/R	6,080	R
N6GP/R	20,256	RL
KE6QR/R	13,320	RL
K6LMN/R	8,772	RL
N7OW/R	6,956	RL
N7DA/R	3,000	RL
K6MI/R	39,039	RU
K3RW/R	2,508	RU
VE7AFZ/R	1,449	RU
K7ATN/R	114	RU
N1AV	126,252	SOHP
W7MRF	69,642	SOHP
WO7R	29,631	SOHP
K7CW	23,859	SOHP
AA7A	23,484	SOHP
VA6AN	22,509	SOLP
K6JO	15,390	SOLP
K2GMY	15,318	SOLP
W6TV	14,976	SOLP
WZ8T	14,432	SOLP
W7JET	3,164	SOP
K7JSG	2,052	SOP

K7CNT	777	SOP
AA6XA	540	SOP
VE7JH	387	SOP
N7IR	26,611	SO3B
N7AT	12,782	SO3B
NU6S	12,408	SO3B
W8AEF	8,448	SO3B
W6RW	7,176	SO3B
KC6ZWT	2,975	SOFM
WB6ETY	884	SOFM
W7AIT	294	SOFM
AE6GR	287	SOFM
W6ESL	264	SOFM
K6QCB	264	SOFM
W6TCP	15,000	LM
WO1S	4,370	LM
NI6E	11,858	UM
WA6LE	5,278	UM
K6LRG	3,780	UM

<b>Midwest Region (Dakota, Midwest, Rocky Mountain and West Gulf Divisions; Manitoba and Saskatchewan Sections)</b>		
K2EZ/R	209,916	R
WØZF/R	18,560	R
KØBBC/R	3,892	R
KCØP/R	3,703	R
NØHZO/R	3,703	R
KA5D/R	42,160	RL
W5TN/R	40,917	RL
K5ND/R	39,072	RL

KEØMHJ/R	35,836	RL
KI5FIQ/R	15,930	RL
NØLD/R	143,773	RU
KBØYHT/R	64,295	RU
KD5IKG/R	62,524	RU
K5TR	239,705	SOHP
AA5AM	149,160	SOHP
KØSIX	141,602	SOHP
W9RM	125,268	SOHP
WDØT	92,130	SOHP
NØUR	150,017	SOLP
WØZQ	109,850	SOLP
NØLL	101,568	SOLP
KAØPQW	82,908	SOLP
WØBH	50,794	SOLP
NØJK	7,242	SOP
KCØSKM	6,552	SOP
WD5AGO	2,535	SOP
KD8RTT	2,508	SOP
NØSTP	1,700	SOP
NØHJZ	56,261	SO3B
KØTI	45,560	SO3B
KEØSVL	44,172	SO3B
KØVG	40,710	SO3B
NØAT	36,890	SO3B
KG7AZY	1,177	SOFM
KG5UNK	522	SOFM
KM5YX	140	SOFM
NØYH	39	SOFM
K5QE	220,640	LM
AA5B	75,504	LM

NJ8M	38,253	LM
NØLNO	16,236	LM
KC5MVZ	8,694	UM

WD9EXD	82,593	LM
WS9V	56,840	LM
N9JF	56,721	LM
VE3MIS	29,812	LM
W9XA	107,217	UM
N8GA	59,444	UM
N2BJ	33,222	UM

KG5CCI	404,505	LM
AA4ZZ	225,806	LM
N4SVC	171,360	LM
N4WW	151,048	LM
WB4WXE	40,020	LM
K8GP	212,925	UM
W4IY	98,450	UM
AG4V	41,454	UM

**Central Region  
(Central and Great Lakes Divisions;  
Ontario East, Ontario North,  
Ontario South, and Greater Toronto  
Area Sections)**

VE3OIL/R	84,640	R
VA3ELE/R	64,296	R
W9FZ/R	46,942	R
KA9VVQ/R	44,838	R
VE3WJ/R	38,412	R
K9PW/R	70,680	RL
N6WJA/R	5,616	RL
W9YOY/R	4,128	RL
N9GH/R	1,400	RL
VE3RKS/R	255	RL
K9JK/R	28,980	RU
K9CT	261,375	SOHP
NØAKC	99,900	SOHP
K9IMM	90,112	SOHP
WE9V	88,230	SOHP
KB8U	83,589	SOHP
K2DRH	191,673	SOLP
W9GA	107,262	SOLP
VE3DS	74,571	SOLP
W9XT	50,424	SOLP
N9ISN	45,570	SOLP
VE3EG	931	SOP
VE3GMZ	720	SOP
VE3IPS	286	SOP
N9TTX	90	SOP
N8OSF	63	SOP
KO9A	139,332	SO3B
VE3KI	51,948	SO3B
VE3SST	47,813	SO3B
VA3ASE	46,269	SO3B
NN1N	38,419	SO3B
KC9PCP	336	SOFM
N9HRT	160	SOFM
KD9OIN	14	SOFM
KZ9O	240,816	LM

**Southeast Region  
(Delta, Roanoke and Southeastern  
Divisions)**

W4EO/R	55,088	R
W5VY/R	25,970	R
KK4BZ/R	10,140	R
W4NF/R	3,264	R
N4DKF/R	629	R
NU4E/R	40,293	RL
NV4B/R	30,804	RL
AE5P/R	15,500	RL
WB8LYJ/R	9,588	RL
W5TV/R	7,680	RL
W5ZN	205,700	SOHP
KC4PX	165,438	SOHP
N4QWZ	150,656	SOHP
W3IP	143,988	SOHP
WA4GPM	95,613	SOHP
N4IS	48,178	SOLP
N4LAZ	36,180	SOLP
WG8S	33,027	SOLP
WB5JJJ	26,460	SOLP
W4SPR	24,178	SOLP
W4RXXR	12,416	SOP
KN4ZKT	903	SOP
K4KPW	861	SOP
N4QX	245	SOP
KC8KSK	100	SOP
N4OGW	106,023	SO3B
K2PS	68,040	SO3B
NS4T	66,912	SO3B
AG4W	58,680	SO3B
KK4MA	48,513	SO3B
WG4I	6,183	SOFM
K3TW	153	SOFM
W5WGF	65	SOFM
K4CNY	36	SOFM
KV4OD	14	SOFM

**Northeast Region  
(New England, Hudson and Atlantic  
Divisions; Maritime and Quebec  
Sections)**

KF2MR/R	121,032	R
KA2LIM/R	110,815	R
K2QO/R	76,912	R
W3ICC/R	56,070	R
K2ET/R	40,828	R
N2DXT/R	19,110	RL
WB2SIH/R	15,908	RL
KJ2G/R	14,938	RL
AF1R/R	14,630	RL
KØBAK/R	3,960	RL
KG6CIH/R	7,923	RU
K1TEO	506,989	SOHP
K1RZ	290,830	SOHP
K1BX	282,746	SOHP
N2YB	178,088	SOHP
K1KG	159,378	SOHP
WB1GQR	213,060	SOLP
AF1T	210,532	SOLP
N2WK	136,040	SOLP
WA3NUF	114,696	SOLP
NN1D	79,380	SOLP
WA2TMC	24,780	SOP
K3HW	4,558	SOP
WB2AMU	4,232	SOP
VE2NCG	1,479	SOP
K2TAS	264	SOP
K3TEF	29,120	SO3B
N1JD	28,462	SO3B
N3AAA	27,477	SO3B
W1BS	25,452	SO3B
WN3A	23,229	SO3B
KB1YNT	207	SOFM

VA2DG	87	SOFM
KB6EE	56	SOFM
KC2RTE	36	SOFM
VE2HEW	33	SOFM
N2NT	318,052	LM
K3CT	104,988	LM
W1QK	77,558	LM
WA1Z	67,134	LM
W3SO	67,044	LM

W2AAU	202,080	UM
KE1LI	131,005	UM
KD2LGX	122,170	UM
N3NGE	61,759	UM
KV1J	60,711	UM

## QSO and Multiplier Leaders by Category

<b>Classic Rover</b>	
<b>50 MHz QSOs</b>	
K2QO/R	330
W4HFZ/R	312
KA2LIM/R	275
W5VY/R	193
W3ICC/R	178
<b>50 MHz Mults</b>	
KA2LIM/R	115
W4HFZ/R	113
K2QO/R	110
W5VY/R	71
W3ICC/R	66
<b>144 MHz QSOs</b>	
N7GP/R	145
K2EZ/R	106
W4EO/R	95
KA2LIM/R	83
KF2MR/R	79
<b>144 MHz Mults</b>	
KA2LIM/R	26
VA3ELE/R	20
K2EZ/R	16
VE3OIL/R	16
W4EO/R	14
<b>222 MHz QSOs</b>	
N7GP/R	98
K2EZ/R	95

KF2MR/R	63
W2HRY/R	52
KV2X/R	51
<b>222 MHz Mults</b>	
K2EZ/R	15
VA3ELE/R	13
VE3OIL/R	12
KA2LIM/R	11
K2QO/R	10
KF2MR/R	10
<b>432 MHz QSOs</b>	
N7GP/R	139
K2EZ/R	117
KF2MR/R	71
K2ET/R	63
KV2X/R	54
<b>432 MHz Mults</b>	
K2EZ/R	15
KA2LIM/R	15
VA3ELE/R	12
K2QO/R	11
VE3OIL/R	11
<b>902 MHz QSOs</b>	
N7GP/R	79
K2EZ/R	71
KF2MR/R	53
K2ET/R	39
KA9VVQ/R	38
W9FZ/R	38

<b>902 MHz Mults</b>	
K2EZ/R	12
VE3OIL/R	11
KA9VVQ/R	8
KF2MR/R	8
VA3ELE/R	8
VE3WJ/R	8
W9FZ/R	8
<b>1.2 GHz QSOs</b>	
N7GP/R	97
K2EZ/R	73
KF2MR/R	60
K2ET/R	39
W2EV/R	35
<b>1.2 GHz Mults</b>	
K2EZ/R	14
VA3ELE/R	11
VE3OIL/R	11
KF2MR/R	10
VE3WJ/R	8
<b>2.3 GHz QSOs</b>	
K2EZ/R	43
KF2MR/R	24
KJ7JC/R	21
N7GP/R	20
W3ICC/R	19
<b>2.3 GHz Mults</b>	
K2EZ/R	12

VE3OIL/R	10
VE3WJ/R	8
KF2MR/R	7
N7GP/R	5
VA3ELE/R	5
<b>3.4 GHz QSOs</b>	
K2EZ/R	36
W4EO/R	8
KF2MR/R	7
KJ7JC/R	4
N7GP/R	4
VA3ELE/R	4
<b>3.4 GHz Mults</b>	
K2EZ/R	11
KF2MR/R	4
W2EV/R	3
KA2LIM/R	2
KF8QL/R	2
NN3Q/R	2
VA3ELE/R	2
VE3OIL/R	2
W4EO/R	2
<b>5.7 GHz QSOs</b>	
VE3OIL/R	11
VE3TFU/R	10
KF2MR/R	9
NR2C/R	7
VE3WJ/R	7
W4EO/R	7
<b>5.7 GHz Mults</b>	
VE3OIL/R	8
VE3WJ/R	7
KF2MR/R	4
NR2C/R	4
VA3ELE/R	4
VE3TFU/R	4
<b>10 GHz QSOs</b>	
VA3ELE/R	17
WB6HYD/R	12

VE3TFU/R	11
VE3OIL/R	10
KF2MR/R	8
W4EO/R	8
<b>10 GHz Mults</b>	
VE3OIL/R	9
VA3ELE/R	7
VE3WJ/R	7
KA9VVQ/R	6
W9FZ/R	6
WB6HYD/R	6
<b>24 GHz QSOs</b>	
WB6HYD/R	12
VA3ELE/R	5
VE3TFU/R	5
AB4CR/R	1
KF8QL/R	1
WB8TGY/R	1
<b>24 GHz Mults</b>	
WB6HYD/R	6
VA3ELE/R	4
VE3TFU/R	3
AB4CR/R	1
KF8QL/R	1
WB8TGY/R	1
<b>Light QSOs</b>	
VE3OIL/R	8
VE3WJ/R	8
<b>Light Mults</b>	
VE3OIL/R	8
VE3WJ/R	8
<b>Limited Rover</b>	
<b>50 MHz QSOs</b>	
K9PW/R	390
NU4E/R	385
NV4B/R	256
K5ND/R	231
KEØMHJ/R	217

<b>50 MHz Mults</b>	
K5ND/R	96
KEØMHJ/R	89
AA5PR/R	88
K9PW/R	82
NU4E/R	82
<b>144 MHz QSOs</b>	
N6GP/R	150
KA5D/R	102
KE6QR/R	100
N2DXT/R	99
W5TN/R	90
<b>144 MHz Mults</b>	
WB8LYJ/R	21
KEØMHJ/R	15
K9PW/R	14
NU4E/R	13
N7DA/R	12
<b>222 MHz QSOs</b>	
KA5D/R	126
W5TN/R	95
KI5FIQ/R	88
KT5TE/R	88
N6RH/R	86
<b>222 MHz Mults</b>	
KA5D/R	10
W5TN/R	10
K9PW/R	8
K5ND/R	7
AE5P/R	6
K6LMN/R	6
KI5FIQ/R	6
KJ2G/R	6
KT5TE/R	6
N6RH/R	6
WB2SIH/R	6
<b>432 MHz QSOs</b>	
KA5D/R	128

N6GP/R	115
W5TN/R	102
KI5FIQ/R	89
KT5TE/R	87
<b>432 MHz Mults</b>	
K9PW/R	11
KA5D/R	10
W5TN/R	10
K5ND/R	9
N6GP/R	8
<b>Unlimited Rover</b>	
50 MHz QSOs	
NØLD/R	168
K9JK/R	107
KD5IKG/R	93
KBØYHT/R	80
K6MI/R	78
<b>50 MHz Mults</b>	
NØLD/R	56
KG6CIH/R	34
K9JK/R	33
K6MI/R	19
KD5IKG/R	16
<b>144 MHz QSOs</b>	
KD5IKG/R	114
NØLD/R	103
KBØYHT/R	85
K6MI/R	60
K3RW/R	51
<b>144 MHz Mults</b>	
K6MI/R	13
NØLD/R	12
KBØYHT/R	11
KD5IKG/R	11
K9JK/R	8
<b>222 MHz QSOs</b>	
KD5IKG/R	105
NØLD/R	71

KBØYHT/R	67
K9JK/R	36
K6MI/R	30
<b>222 MHz Mults</b>	
KBØYHT/R	11
NØLD/R	11
KD5IKG/R	10
K6MI/R	7
K9JK/R	7
<b>432 MHz QSOs</b>	
KD5IKG/R	102
NØLD/R	78
KBØYHT/R	69
K6MI/R	43
K9JK/R	37
<b>432 MHz Mults</b>	
KBØYHT/R	11
NØLD/R	11
KD5IKG/R	10
K6MI/R	7
K9JK/R	7
<b>902 MHz QSOs</b>	
NØLD/R	70
KBØYHT/R	66
K9JK/R	32
K6MI/R	20
KD5IKG/R	19
<b>902 MHz Mults</b>	
KBØYHT/R	11
NØLD/R	10
K6MI/R	6
KD5IKG/R	6
K9JK/R	4
<b>1.2 GHz QSOs</b>	
NØLD/R	70
KBØYHT/R	67
K6MI/R	24
KD5IKG/R	17

K3RW/R	3
KG6CIH/R	3
<b>1.2 GHz Mults</b>	
KBØYHT/R	11
NØLD/R	10
K6MI/R	7
KD5IKG/R	5
K3RW/R	2
KG6CIH/R	2
<b>2.3 GHz QSOs</b>	
NØLD/R	22
KD5IKG/R	18
KG6CIH/R	2
<b>2.3 GHz Mults</b>	
NØLD/R	6
KD5IKG/R	5
KG6CIH/R	1
<b>3.4 GHz QSOs</b>	
NØLD/R	20
KD5IKG/R	14
KG6CIH/R	2
<b>3.4 GHz Mults</b>	
NØLD/R	6
KD5IKG/R	4
KG6CIH/R	1
<b>10 GHz QSOs</b>	
K6MI/R	12
K9JK/R	8
<b>10 GHz Mults</b>	
K6MI/R	6
K9JK/R	1
<b>24 GHz QSOs</b>	
K6MI/R	12
<b>24 GHz Mults</b>	
K6MI/R	6



<b>Light QSOs</b>	
KG6CIH/R	2
<b>Light Mults</b>	
KG6CIH/R	1
<b>Single Operator, High Power</b>	
<b>50 MHz QSOs</b>	
K1BX	1306
K9CT	992
KC4PX	918
WA1T	817
AB4B	790
<b>50 MHz Mults</b>	
K9CT	223
K1BX	218
AA5AM	195
W9RM	195
K1HTV	180
K5TR	180
<b>144 MHz QSOs</b>	
K1TEO	212
W3XTT (KA1ZE, op)	166
W3IP	134
K1RZ	125
W2KV	116
<b>144 MHz Mults</b>	
W3XTT (KA1ZE, op)	70
W5ZN	66
KAØRYT	50
K1TEO	48
W1VD	46
<b>222 MHz QSOs</b>	
K1RZ	59
N2YB	53
K1TEO	41
K5TR	41
K5LLL	35

<b>222 MHz Mults</b>	
K1RZ	22
K1TEO	20
W2ODH	18
K2UA	12
K5LLL	12
K5TR	12
<b>432 MHz QSOs</b>	
K1TEO	93
K1RZ	77
K5TR	65
N2YB	60
K2UA	56
<b>432 MHz Mults</b>	
K1TEO	31
K1RZ	22
W2ODH	18
K2UA	14
K5TR	12
<b>902 MHz QSOs</b>	
K1RZ	29
WØGHZ	24
N2YB	21
K1TEO	19
N1AV	16
<b>902 MHz Mults</b>	
K1RZ	15
K1TEO	15
WØGHZ	10
K5TR	8
K1KG	6
N1AV	6
<b>1.2 GHz QSOs</b>	
K1RZ	43
K1TEO	40
N1AV	28
N2YB	19
WA3DRC	15

<b>1.2 GHz Mults</b>	
K1RZ	18
K1TEO	16
N1AV	13
W3IP	7
WA3DRC	7
<b>2.3 GHz QSOs</b>	
K1RZ	23
K1TEO	14
N1AV	12
N2YB	12
WA3DRC	10
<b>2.3 GHz Mults</b>	
K1RZ	13
K1TEO	9
K1KG	6
N1AV	6
N2YB	5
W2SJ	5
W3SZ	5
WA3DRC	5
<b>3.4 GHz QSOs</b>	
K1RZ	9
K1TEO	9
N1AV	8
N2YB	7
K1KG	5
<b>3.4 GHz Mults</b>	
K1TEO	8
K1RZ	6
N1AV	6
K1KG	5
N2YB	5
<b>5.7 GHz QSOs</b>	
K1RZ	6
K1TEO	5
N2YB	5
K1KG	4
W3SZ	3

WA3DRC	3
<b>5.7 GHz Mults</b>	
K1TEO	5
K1KG	4
K1RZ	4
N2YB	4
W3SZ	3
<b>10 GHz QSOs</b>	
K1RZ	13
N2YB	7
K1TEO	5
K5LLL	4
N9LB	4
<b>10 GHz Mults</b>	
K1RZ	9
K1TEO	5
N2YB	4
K1KG	3
K5LLL	3
W3SZ	3
<b>24 GHz QSOs</b>	
KB7ME	2
<b>24 GHz Mults</b>	
KB7ME	1
<b>Light QSOs</b>	
W2SJ	1
<b>Light Mults</b>	
W2SJ	1
<b>Single Operator, Low Power</b>	
<b>50 MHz QSOs</b>	
WB1GQR (W1SJ, op)	747
NØUR	740
K2DRH	687
AF1T	603
NN1D	545

<b>50 MHz Mults</b>	
NØUR	190
NØLL	173
K2DRH	166
AB1OC	160
WØJW	154
<b>144 MHz QSOs</b>	
WB1GQR (W1SJ, op)	120
N2WK	102
K2GMY	92
WZ8T	84
K6FGV	83
<b>144 MHz Mults</b>	
K2DRH	36
N8LRG	33
N2WK	25
WA3NUF	22
VE3DS	21
<b>222 MHz QSOs</b>	
N2WK	54
WB1GQR (W1SJ, op)	37
AF1T	34
VE3DS	31
K2GMY	28
<b>222 MHz Mults</b>	
WB1GQR (W1SJ, op)	15
VE3DS	14
WA3EOQ	13
AF1T	11
K2DRH	10
N2WK	10
W9GA	10
WØZQ	10
<b>432 MHz QSOs</b>	
K6FGV	80
WZ8T	59
N2WK	54
N6TEB	50
K2GMY	48

<b>432 MHz Mults</b>	
N8LRG	17
VE3DS	15
WB1GQR (W1SJ, op)	15
W9GA	14
WA3EOQ	13
<b>902 MHz QSOs</b>	
WØZQ	25
VE3DS	18
W6TV (W6YEP, op)	18
N2WK	15
AF1T	14
<b>902 MHz Mults</b>	
WØZQ	10
AF1T	8
VE3DS	8
W9GA	7
W6TV (W6YEP, op)	6
<b>1.2 GHz QSOs</b>	
N2WK	22
AF1T	18
W6TV (W6YEP, op)	18
VE3DS	17
N7RK	15
WA3NUF	15
<b>1.2 GHz Mults</b>	
N2WK	8
WB1GQR (W1SJ, op)	8
AF1T	7
VE3DS	7
W6TV (W6YEP, op)	6
<b>2.3 GHz QSOs</b>	
N2WK	10
AF1T	8
WA3NUF	8
K5TRA	6
KA3FQS	5
VE3DS	5

WA3GFZ	5
<b>2.3 GHz Mults</b>	
AF1T	5
WA3NUF	5
N2WK	4
K5TRA	3
WA3GFZ	3
<b>3.4 GHz QSOs</b>	
AF1T	7
WA3NUF	4
KA3FQS	3
VE3DS	3
WB2JAY	2
<b>3.4 GHz Mults</b>	
AF1T	6
VE3DS	2
WA3NUF	2
WB2JAY	2
KA3FQS	1
W3EKT	1
WA3GFZ	1
WB1GQR (W1SJ, op)	1
<b>5.7 GHz QSOs</b>	
AF1T	7
N2WK	6
W3EKT	1
WA3NUF	1
<b>5.7 GHz Mults</b>	
AF1T	6
N2WK	4
W3EKT	1
WA3NUF	1
<b>10 GHz QSOs</b>	
W6TV (W6YEP, op)	12
AF1T	6
N2WK	6
K5TRA	3
NJ7A	2

VA3TO	2
VE2UG	2
W3EKT	2
WJ7L	2
<b>10 GHz Mults</b>	
W6TV (W6YEP, op)	6
AF1T	5
N2WK	4
K5TRA	2
VA3TO	2
VE2UG	2
W3EKT	2
WJ7L	2
<b>24 GHz QSOs</b>	
W6TV (W6YEP, op)	12
AF1T	1
K7SMA	1
W6RSS	1
<b>24 GHz Mults</b>	
W6TV (W6YEP, op)	6
AF1T	1
K7SMA	1
W6RSS	1
<b>134 GHz QSOs</b>	
K1FJM (N6ZE, op)	1
<b>134 GHz Mults</b>	
K1FJM (N6ZE, op)	1
<b>Light QSOs</b>	
AF1T	2
WB3IGR	1
<b>Light Mults</b>	
AF1T	1
WB3IGR	1
<b>Single Operator, Portable</b>	
<b>50 MHz QSOs</b>	
KCØSKM	118

NØJK	105
K3HW	90
W4RXXR	90
WA2TMC	85
<b>50 MHz Mults</b>	
NØJK	71
KCØSKM	56
K3HW	53
W4RXXR	47
WA2TMC	41
<b>144 MHz QSOs</b>	
K7JSG	38
WA2TMC	37
W4RXXR	32
VE7KPM	30
KN4ZKT	28
<b>144 MHz Mults</b>	
K2TAS	10
K4KPW	10
KN4ZKT	10
W7JET	7
K7CNT	6
VE7JH	6
WD5AGO	6
<b>222 MHz QSOs</b>	
WA2TMC	31
W4RXXR	17
W7JET	7
AA6XA	5
K7JSG	5
<b>222 MHz Mults</b>	
W4RXXR	5
WA2TMC	5
W7JET	4
AA6XA	3
K7JSG	2
VE2NCG	2
WB2AMU	2

<b>432 MHz QSOs</b>	
WA2TMC	42
W4RXR	19
W7JET	16
VE7JH	10
AA6XA	9
KK6MJG	9
<b>432 MHz Mults</b>	
W4RXR	5
W7JET	5
K7CNT	4
WA2TMC	4
WD5AGO	4
<b>902 MHz QSOs</b>	
WA2TMC	7
W7JET	5
W4RXR	4
VE2NCG	1
<b>902 MHz Mults</b>	
WA2TMC	4
W7JET	3
W4RXR	2
VE2NCG	1
<b>1.2 GHz QSOs</b>	
W7JET	6
WA2TMC	5
K4KPW	1
KN4ZKT	1
VE6IXD	1
<b>1.2 GHz Mults</b>	
W7JET	4
WA2TMC	3
K4KPW	1
KN4ZKT	1
VE6IXD	1
<b>2.3 GHz QSOs</b>	
WA2TMC	5

<b>2.3 GHz Mults</b>	
WA2TMC	3
<b>5.7 GHz QSOs</b>	
WA2TMC	4
<b>5.7 GHz Mults</b>	
WA2TMC	3
<b>10 GHz QSOs</b>	
WA2TMC	6
VE3EG	1
<b>10 GHz Mults</b>	
WA2TMC	3
VE3EG	1
<b>Single Operator, 3 Band</b>	
<b>50 MHz QSOs</b>	
KO9A	589
K2PS	562
N4OGW	548
NS4T	512
AG4W	500
<b>50 MHz Mults</b>	
KO9A	168
KK4MA	148
VE3KI	148
N4OGW	145
KØTI	134
KØVG	134
VA3ASE	134
<b>144 MHz QSOs</b>	
NU6S	114
WN3A	98
W7OTL	87
KO9A	75
N3AAA	65
<b>144 MHz Mults</b>	
KO9A	30
N3AAA	30

N4OGW	24
N9DR	21
WN3A	21
<b>432 MHz QSOs</b>	
NU6S	91
N7IR	43
W7OTL	41
N7QOZ	27
KO9A	17
VE3SST	17
<b>432 MHz Mults</b>	
N4OGW	8
NU6S	8
N7IR	7
KO9A	6
WA4LDU	6
<b>Single Operator, FM Only</b>	
<b>50 MHz QSOs</b>	
WG4I	27
KC6ZWT	11
KG7AZY	9
KB1YNT	8
K3TW	6
<b>50 MHz Mults</b>	
WG4I	6
K3TW	5
KB1YNT	5
KC6ZWT	3
N9HRT	3
<b>144 MHz QSOs</b>	
WG4I	95
KC6ZWT	50
KG7AZY	40
K6QCB	30
KK6VIX	28
<b>144 MHz Mults</b>	
WG4I	11
KG7AZY	6

KC6ZWT	5
K6QCB	4
KC9PCP	4
KG5UNK	4
KK6VIX	4
N9VM (N1VM, op)	4
W5WGF	4
W6UGA	4
WB6ETY	4
<b>222 MHz QSOs</b>	
KC6ZWT	27
WG4I	20
WB6ETY	7
VA2DG	6
AE6GR	3
KC9PCP	3
VE2HEW	3
W6ESL	3
<b>222 MHz Mults</b>	
KC6ZWT	4
WB6ETY	4
WG4I	3
W6ESL	2
AE6GR	1
KC9PCP	1
KG5UNK	1
KM5YX	1
KN6FKQ	1
N1TEN	1
VA2DG	1
VE2HEW	1
W7AIT	1
<b>432 MHz QSOs</b>	
WG4I	41
KC6ZWT	31
KG7AZY	29
KG5UNK	16
WB6ETY	15
<b>432 MHz Mults</b>	
WG4I	7

KC6ZWT	5
WB6ETY	4
KG5UNK	3
KG7AZY	3
KK6OTK	3
N6NFB	3
NT6X	3
<b>Limited Multioperator</b>	
<b>50 MHz QSOs</b>	
KG5CCI	1149
KZ9O	1014
N4WW	967
N2NT	767
AA4ZZ	707
<b>50 MHz Mults</b>	
KZ9O	212
KG5CCI	206
AA4ZZ	189
K5QE	186
N2NT	178
<b>144 MHz QSOs</b>	
N2NT	259
W3SO	163
N4SVC	100
AA4ZZ	99
WA3EKL	93
<b>144 MHz Mults</b>	
K5QE	62
WD9EXD	57
KG5CCI	52
N2NT	43
W3SO	42
<b>222 MHz QSOs</b>	
N2NT	54
KG5CCI	31
AA4ZZ	18
K5QE	18
N2JQR	18

<b>222 MHz Mults</b>	
KG5CCI	23
N2NT	19
K5QE	15
AA4ZZ	13
N4SVC	13
<b>432 MHz QSOs</b>	
N2NT	58
N4SVC	44
AA4ZZ	32
WO1S	30
KG5CCI	28
<b>432 MHz Mults</b>	
KG5CCI	22
N4SVC	20
N2NT	19
K5QE	17
AA4ZZ	16
<b>1.2 GHz QSOs</b>	
WO1S	2
N4HB	1
<b>1.2 GHz Mults</b>	
N4HB	1
WO1S	1
<b>Unlimited Multioperator</b>	
<b>50 MHz QSOs</b>	
KE1LI	505
W2AAU	505
W9XA	477
K8GP	452
KD2LGX	408
<b>50 MHz Mults</b>	
K8GP	161
KE1LI	161
W2AAU	145
KD2LGX	132
W9XA	125

<b>144 MHz QSOs</b>	
W2AAU	165
W4IY	132
K8GP	107
KE1LI	104
KD2LGX	93
<b>144 MHz Mults</b>	
W4IY	42
W2AAU	41
KD2LGX	33
K8GP	32
N8GA	32
<b>222 MHz QSOs</b>	
K8GP	37
KD2LGX	23
NI6E	21
WA6LE	21
N3NGE	14
<b>222 MHz Mults</b>	
K8GP	17
W2AAU	9
AG4V	8
W9XA	8
KD2LGX	7
W2RME	7
<b>432 MHz QSOs</b>	
KD2LGX	34
K8GP	30
W2AAU	27
NI6E	25
W9XA	23
WA6LE	23
<b>432 MHz Mults</b>	
W2AAU	18
K8GP	12
W4IY	10
KD2LGX	9
AG4V	8

<b>902 MHz QSOs</b>	
K8GP	9
W2AAU	8
KD2LGX	7
N3NGE	6
W9XA	3
WA6LE	3
<b>902 MHz Mults</b>	
K8GP	6
W2AAU	6
N3NGE	5
KD2LGX	4
AG4V	2
W9XA	2
WA6LE	2
<b>1.2 GHz QSOs</b>	
K8GP	12
W2AAU	7
WA6LE	7
KD2LGX	6
N3NGE	6
NI6E	6
W4IY	6
<b>1.2 GHz Mults</b>	
K8GP	7
W2AAU	6
KD2LGX	5
N3NGE	5
W4IY	4
WA6LE	4
<b>2.3 GHz QSOs</b>	
K8GP	6
W2AAU	5
N3NGE	4
AG4V	1
<b>2.3 GHz Mults</b>	
K8GP	5
W2AAU	5
N3NGE	4

AG4V	1
<b>3.4 GHz QSOs</b>	
K8GP	6
W2AAU	5
<b>3.4 GHz Mults</b>	
K8GP	5
W2AAU	5
<b>5.7 GHz QSOs</b>	
K8GP	6
W2AAU	5
<b>5.7 GHz Mults</b>	
K8GP	5
W2AAU	5
<b>10 GHz QSOs</b>	
KØSM	10
K8GP	7
W9XA	1
<b>10 GHz Mults</b>	
K8GP	5
KØSM	5
W9XA	1

## Sponsored Plaque Winners

**Congratulations to all category winners listed below and THANK YOU to these gracious plaque sponsors!**

There are numerous contest plaques that go unsponsored each year. If you or your club is interested in sponsoring a plaque, please contact the ARRL Contest Program at [contests@arrl.org](mailto:contests@arrl.org) or by phone at 860-594-0232. For 2020, plaques are priced at \$80, which includes all shipping and handling costs to the winner. Send your \$80 (US) payment by check (make payable to ARRL) and mail to ARRL — Contest Plaques, 225 Main St., Newington, CT 06111 USA.

Plaque Category	Winner	Plaque Sponsor
Overall Single Operator High Power	K1TEO	Charles Dietz, W5PR
Overall Single Operator Low Power	WB1GQR (W1SJ, op)	Jeffrey Klein, K1TEO
Overall Single Operator QRP Portable	WA2TMC	Andrea Slack, K2EZ
Overall Single Operator, 3-Band	KO9A	Northern Lights Radio Society
Overall Single Operator, Low Power, Rookie	K9SPH	W3ZZ First Log Award - Memorial by Tim, K3LR and Dave, W9PA
Overall Single Operator, FM Only	WG4I	Andrea Slack, K2EZ
Overall Rover	K2EZ/R	Andrea Slack, K2EZ
Overall Limited Rover	K9PW/R	Andrea Slack, K2EZ
Overall Unlimited Rover	NØLD/R	Andrea Slack, K2EZ
Atlantic Division Single Operator High Power	K1RZ	Potomac Valley Radio Club
Atlantic Division Single Operator Low Power	N2WK	Potomac Valley Radio Club
Atlantic Division Multioperator	KD2LGX	Al Oldfield, W9KXI and Ken Kent, KA2LIM
Central Division Single Operator High Power	K9CT	Society of Midwest Contesters
Central Division Single Operator Low Power	K2DRH	Society of Midwest Contesters
Central Division Single Operator QRP Portable	N9TTX	Society of Midwest Contesters
Central Division Rover	W9FZ/R	Society of Midwest Contesters
Dakota Division Single Operator Low Power	NØUR	Northern Lights Radio Society
Delta Division Single Operator High Power	W5ZN	Memorial to Mike Bruck, W5MRB, from his friends
Hudson Division Single Operator High Power	W2IRT	Jay Buscemi, NY2NY, in memory of Dick Knadle, K2RIW
Hudson Division Single Operator Low Power	NO2EL	Matthew Ryffel, K2NUD
Northwestern Division Single Operator Low Power	WZ8T	Northern Lights Radio Society
Roanoke Division Single Operator High Power	W3IP	Potomac Valley Radio Club
Roanoke Division Single Operator Low Power	N4LAZ	Potomac Valley Radio Club
Roanoke Division Rover	W4EO/R	George Molnar, KF2T
Canada Single Operator Low Power	VE3DS	Neil Macklem, VE3SST
Canada Rover	VE3OIL/R	Neil Macklem, VE3SST
Canada Unlimited Rover	VE7AFZ/R	Neil Macklem, VE3SST
Northwestern Division Single Operator, 3-Band	KA6BIM	Pacific Northwest VHF Society
Central Division Single Operator, 3-Band	KO9A	Society of Midwest Contesters