



# ARRL RTTY Roundup 2016 Results

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## How was the weather at and above your station this year?

Success in the RTTY Roundup is not only achieved by overcoming obstacles in your station, your RTTY setup, and your chosen – but frustrating – software, but also the weather way up there in space and down closer to the ground. For some parts of the country the "way up there" weather came through and provided a bunch of contacts, while for other parts the "down closer" weather made just staying on the air a challenge in itself.

## Tales from Ten

Let's take the space weather for example. Whilst perusing the scores in preparation for this article, I couldn't help but notice the disparity in 10 meter QSOs: Some stations had hundreds and others almost none. I started to notice a pattern and decided to sort the score database by ARRL section and average number of 10 meter QSOs. The table shows the results (omitting Sections with fewer than 5 entries or an average less than 30.) Sure enough, you can see that 10 meters was very much favored all the way up in the Canadian northwest, down the West Coast and Nevada, and through the Desert Southwest and Mississippi Delta.

### Average 10 Meter QSOs by Section

Section	Avg QSOs	Entries
NV	70.8	6
WTX	66.8	5
SCV	65.1	24
SF	64.5	10
SJV	62.7	9
EB	57.3	10
BC	53.3	13
SV	48.5	23
AZ	48.4	28
LAX	45.3	7
LA	45.0	6
OR	44.5	16
MS	38.8	5
ORG	37.8	6
SDG	37.3	14
EWA	36.2	13
AB	35.5	6
CO	34.3	19

Ken, WØLSD in Colorado was happy with conditions on 10: "Propagation seemed to be decent and I had a 3<sup>rd</sup> radio dedicated to 10 meters that was networked with the station. I would check 10 occasionally and at times there seemed to be enough activity to run, which I did. In the last several contests I noticed 10 was acting almost like 6 meters, in that there would be propagation to a very narrow part of the country and you would work

that area dry pretty quick. But in the RU, prop on 10 for me in the mountains seemed to be much more general, thus offering more states and ham population centers."

Jeff, WB3JFS was probably the most blunt: "Worse! Conditions! Ever! I worked 1 European station. I failed to put any Cuban stations in the log though I tried for 4 of them. However, I did manage to make 576 QSOs." Well, there you go.

## Whither the Weather?

Meanwhile, "safely" back in the troposphere, let's check in up in the Great White North and the folks at WL7F. The photo shows a perfectly normal scene, a ham up on a tower making adjustments. In fact the ham is rotating the antenna towards JA for the afternoon opening. But I wondered, "Why you don't rotate the antenna from the ground with a rope tied to one end of the boom? There must be a reason." Indeed there is according to WL7B, "Deep snow for one and I have the mast pinned at the top. Walking around with rope in deep snow sucks... walking in deep snow sucks anyway.... and if I tie the ropes off and they freeze, the knot would be difficult to get apart." The snow where I operated at W7RN in northern Nevada only gets a couple feet deep, so I guess I better stop complaining...

Back here in the Lower 48, Jim, W5AP had goals, and also a lot of snow. "My goal this year was to operate from my Colorado QTH and improve my score from my North Texas QTH of previous years. I drove up to my Colorado QTH 3 days before the contest to find a good covering of snow at my 'shack' behind our mountain house at 8800-foot elevation west of Colorado Springs near Lake George. I had to shovel a path from the house to the shack, then got my all-wheel-drive Subaru stuck backing out to the shack so as not to carry my heavy 87A amp so far." Jim goes on to add that all equipment worked flawlessly, including, "dipoles on 20, 40, & 80, that required climbing a tree for a fix in 20 degrees. Well worth it as I was able to run SO2R with various combination of antennas. Only several trips outside to make yellow snow and a sleep break interrupted the fun."

Across the deep blue sea, one of my absolute favorite multipliers Phil, GUØSUP was dealing with rain and gale-force winds: "Heavy rain and strong winds made starting on the low bands impossible, so I got up early on Sunday morning, and it was still raining and blowing, plus there were strong static crashes, so the low bands were out for me. My dipoles were banging around in the

gales, and the resulting SWR was very poor on both. On both 40 & 80, I had S9+ of noise, and could hear very few stations.”



Jim, W5AP found a lot of snow when he drove to his shack at an elevation of 8800 feet. Everything worked out just fine, even dealing with white stuff. (Photo credit – Jm Smith, W5AP)

## Speed-bump Selfies

Some entrants create their own obstacles so that they can overcome them. Here is Dave, W5DT in his own words: “I won’t get any awards or plaques, but I managed to make 208 contacts on 15M and 10M all with the [Teletype] Model 33. She ran straight for 12 hours today (I oiled her on the fly ~ 4:00 pm with a syringe). Didn’t drop a single bit - what a workhorse! I even got to run some punch tape macros - worked great!” Just remember this next time you are puzzling through a RTTY software issue! (If you ever get the chance to watch a mechanical teleprinter in action, take it! – Ed.)

Operating right after New Year’s Day undoubtedly caused some headaches for many operators, at least for those who didn’t get their headache via the festivities. In fact, in the Soapbox comments, one operator complained, “Why was everyone calling me ‘Honey?’ After receiving ‘HNY’ several times and doing some fruitless Google searches of “HNY CW PROSIGN” and the like, I finally figured it out. Maybe a second cup of coffee would have helped.” Indeed.

And some participants have obstacles to conquer way beyond the usual operating conditions. Ken, AC4RD worked the RTTY Roundup from bed. “I had a whole bunch of surgery in 2015 and I spent a lot of time in bed.

By late summer I was confined to bed for a month. For something to play with, I set up my FT-897 beside my bed. Soon that wasn’t enough, so I wound up with my FT-950, a keyer and paddles, sound card interface, and a laptop for logging and RTTY. I had to put a small homebrewed bookcase on top of my nightstand to hold all this stuff. Even though I’m now back on my feet (wobbly, but walking) I still haven’t made time to move that radio gear back to my usual shack location. So I worked the 2016 ARRL RTTY RU from my bed!”

## Participation in 2016

Overall participation this year was fairly flat – and hopefully not many more operating flat in bed – despite a resurgence in participation from some big domestic contest clubs that only served to offset a drop in DX entrants. As we continue to slide down the razor blade of Cycle 24, QSO totals continue the downward trend from the peak in 2013.

### Yearly QSO Totals, by Band

Band	2012	2013	2014	2015	2016
80	69,087	79,226	76,006	67,015	65,133
40	144,094	161,081	131,653	125,537	146,679
20	180,900	200,106	169,502	145,994	191,328
15	168,439	174,985	175,681	160,868	153,983
10	67,349	42,671	70,580	95,436	31,850
Total	630,742	658,523	623,422	595,971	588,973

## How About Them Thar Affiliated Clubs?

After a year off, the Northern California Contest Club got back into the gavel-collecting business with an Unlimited Club score second only to their record-setting performance in 2013. NCCC President WIRH noted that a big push was made to get new RTTY operators set up and on the air. (Guess it worked!) The Potomac Valley Radio Club (PVRC) ran a solid second, the Society of Midwest Contesters (SMC) climbed into Unlimited for the first time placing third, and the Minnesota Wireless Association (MWA) was fourth. In fact, this year was the first time we had four of the major contest clubs submit the 50 or more logs required to qualify for the Unlimited Club Category. Let’s have more next year!

Meanwhile in the Medium category, with the extra efforts of the PVRC and SMC to make Unlimited, the Franklin Radio Club - with only 19 logs submitted – edged out the Yankee Clipper Contest Club and them thar Arizona Outlaws to score their first ever Roundup gave! And for the Local Clubs – those submitting 10 logs or less – the Orleans County Amateur Radio Club continued their domination of the category with a score more than twice that of their nearest rival for a fifth win in a row.

## Affiliated Club Competition

	Entries	Score
<b>Unlimited</b>		
Northern California Contest Club	67	3,809,079
Potomac Valley Radio Club	52	2,259,463
Society of Midwest Contesters	53	2,123,402
Minnesota Wireless Association	71	1,794,309
<b>Medium</b>		
Frankford Radio Club	19	1,178,489
Yankee Clipper Contest Club	26	1,155,765
Arizona Outlaws Contest Club	22	1,017,457
Tennessee Contest Group	10	634,525
Florida Contest Group	13	610,921
Contest Club Ontario	19	593,028
DFW Contest Group	14	522,090
Kentucky Contest Group	12	477,934
Contest Group du Quebed	7	472,533
Alabama Contest Group	12	419,579
Grand Mesa Contesters of Colorado	6	401,501
Louisiana Contest Club	5	399,441
Iowa DX and Contest Club	3	350,653
Orca DX and Contest Club	7	338,510
Western Washington DX Club	8	326,865
Georgia Contest Group	5	314,963
Central Texas DX and Contest Club	5	287,071
Willamette Valley DX Club	9	268,440
Southern California Contest Club	12	255,745
Texas DX Society	3	190,880
CTRI Contest Group	4	190,184
Carolina DX Association	3	175,055
South East Contest Club	6	156,854
Radiosport Manitoba	3	155,596
Swamp Fox Contest Group	5	155,154
Mad River Radio Club	4	137,100
Big Sky Contesters	3	110,586
North Texas Contest Club	3	94,848
Order of Boiled Owls of New York	5	94,469
North Carolina DX and Contest Club	3	80,605
Utah DX Association	5	70,608
North Coast Contesters	3	58,896
Columbia-Montour ARC	3	58,703
New Providence ARC	3	41,619
NORDX Club	4	32,568
<b>Local</b>		
Orleans County Amateur Radio Club	7	748,161
Boeing Employees ARS - St. Louis	4	312,968
Spokane DX Association	8	256,959
Metro DX Club	6	240,966
Niagara Frontier Radiosport	4	163,042
Skyview Radio Society	4	153,993
Midland ARC	3	101,735
San Diego DX Club	3	39,264
Maritime Contest Club	3	35,070

In preparing this article I wanted to know if these club scores were records, but I could find any listing of club records for the RTTY Roundup. So here for the first time is a listing of first-place club scores in each category since Affiliated Club competition in the RTTY Roundup began in 2004. Maybe this will inspire you to get your club to make a try for the top spot? (Thanks for the extra effort, Jeff! – Ed.)

## Affiliated Club Gavel Winners, 2004 to present

Year	Club	Logs	Score
<b>Unlimited</b>			
2016	NCCC	67	3,809,079
2015	Minnesota Wireless Assn	56	1,891,478
2014	NCCC	65	3,202,878
2013	NCCC	71	4,044,558
2012	NCCC	73	3,715,609
2011	Minnesota Wireless Assn	64	2,183,630
2010	NCCC	60	2,502,251
2009	NCCC	86	3,307,797
2008	no winner		
2007	no winner		
2006	no winner		
2005	no winner		
2004	no winner		
<b>Medium</b>			
2016	Frankford RC	19	1,178,489
2015	PVRC	47	2,406,478
2014	SMC	28	1,524,519
2013	Minnesota Wireless Assn	43	1,607,832
2012	PVRC	49	2,500,870
2011	PVRC	37	1,833,820
2010	PVRC	40	1,813,567
2009	PVRC	37	1,778,086
2008	PVRC	35	1,440,226
2007	PVRC	37	1,966,378
2006	PVRC	28	1,355,040
2005	NCCC	31	1,231,336
2004	NCCC	35	1,439,443
<b>Local</b>			
2016	Orleans County ARC	7	748,161
2015	Orleans County ARC	6	533,555
2014	Orleans County ARC	10	655,255
2013	Orleans County ARC	10	1,065,283
2012	Orleans County ARC	10	936,547
2011	Dominion DX Group	10	639,851
2010	Orleans County ARC	6	449,103
2009	Orleans County ARC	4	294,392
2008	Maritime Contest Club	4	297,018
2007	Alabama Contest Group	7	453,854
2006	Maritime Contest Club	5	262,279
2005	Spokane DX Assn	3	131,022
2004	Dauberville DX Assn	3	125,534

## Have You Been Skimmed?

Last year we saw a shift from the higher power categories to lower power. This year instead saw a shift to the Single-Op Unlimited (SOU) categories. I think it's likely this had much to do with the maturing this year of "RTTY Skimmers" – similar to *CW Skimmers* that decode multiple signals across a band and report them to spotting network servers. (*CW Skimmer* is a software package written by Alex Shovkoplyas, VE3NEA available at [www.dxatlas.com/cwskimmer](http://www.dxatlas.com/cwskimmer) and referred to as a "skimmer.")

For my own RTTY contest operating, I am finding it important to keep in mind that the skimmers are listening even if you are not using their spots, like I prefer. The skimmers are going to spot you when you are running if they can receive you and if your CQ is properly formed. If your signal is strong at the receiver, I've found that as little as two CQs will get you spotted and there is decent chance you will get more stations responding to your CQ

– especially as more stations choose to operate SOU. However, the skimmers won't continuously spot you – there is a ten-minute delay from being spotted until the skimmer will spot you again, assuming you are still on the same frequency. If you want to be spotted more often – such as when your rate drops off too much – it can make sense to change your running frequency by at least half a kilohertz or so, generating a new spot.

### 2014 to 2016 Category Choice (W/VE and DX)

Category	2014	2015	2016
SOLP	843	921	828
SOULP	225	229	275
SOHP	331	296	295
SOUHP	254	258	290
MSLP	29	28	25
MSHP	40	48	44
Total entries	1722	1780	1757

Note: In 2016 70 DX and 19 W/VE Checklogs were also received

Outside of the contest – such as when you are preparing your station – the skimmers are a great tool for testing your signal. You can at least tell that you are “getting out” with a decodable RTTY signal and the skimmer will even tell you how strong your signal as a signal-to-noise ratio (SNR) value in dB. (After polling a few contest directors, there was a consensus that viewing skimmer spots of your just your own call sign during the contest would still put you in an Unlimited category.)

It is important to properly form your CQ, or a skimmer will not recognize your transmission as a CQ and not spot you. The skimmers can be configured to recognize contest CQs, so in principle there are many variations that will work. I have found a good general purpose starting point that usually gets recognized in the RTTY Roundup is “CQ RU (call sign) (call sign) CQ “. (Don't forget to add a space after the second CQ!) For other contests just change “RU” to whatever makes sense for the contest, like “NA” for the North American QSO Party, and so on. That said, some skimmer operators may not always switch to a contest configuration, so try a simpler "CQ (call sign) (call sign) CQ " if you aren't getting the results you think you should.

### Regional Highlights

For the first time in several years, the West Coast's regional participation has surged ahead of the Northeast, where the number of logs received remained flat. The Central and Midwest regions also registered gains, while the Southeast has ebbed.

### Domestic Participation, Logs Received by Region

Region	2015	2016
West Coast	216	243
Northeast	222	221
Midwest	202	214
Central	156	194
Southeast	190	167
Total	986	1039

### Domestic Participation, by ARRL Section

Section	Logs received	2015 rank (logs)	Section	Logs received
MN	71	1st (54)	ENY	9
IL	52	2nd (38)	NFL	9
VA	43	3rd (38)	SJV	9
OH	34	7th (29)	GTA	8
MDC	30	8th (25)	MT	8
AZ	28	4th (31)	SB	8
WWA	27	10th (25)	UT	8
EPA	26	5th (30)	WCF	8
WNY	25	11th (22)	AK*	7
SCV	24	18th (17)	LAX	7
IN	23		NLI	7
SV	23		ONE	7
STX	22		SD	7
MI	21		AB	6
TN	21	6th (30)	AR	6
WI	21		DE	6
CO	19		KS	6
NTX	19		LA	6
MO	18		NV	6
NC	17		OK	6
OR	16		ORG	6
ID	15		PAC*	5
NNJ	15	9th (25)	MS	5
AL	14		ND	5
CT	14		NE	5
EMA	14		RI	5
KY	14		WTX	5
QC	14		WY	5
SDG	14		MAR	4
WPA	14		WV	4
BC	13		PR*	3
EWA	13		VT	3
GA	13		MB	2
ONS	13		NM	2
IA	12		NNY	2
WMA	12		SK	2
SC	11		VI*	1
EB	10		ME	1
NH	10		ONN	1
SF	10		NT	0
SFL	10		NL	0
SNJ	10			

\* DX Section

Looking at individual ARRL sections, Minnesota (MN) continues to be the Land of 10,000 Lakes and more RTTY Roundup logs submitted than any other section with 17 more logs than last year just to ice it. Illinois (IL) and Virginia (VA) also continue in the 2<sup>nd</sup> and 3<sup>rd</sup> spots, both increasing their count of logs submitted.

During the contest I noticed there didn't seem to be as many Tennessee (TN) stations as I expected, and sure enough, TN slipped out of the top ten. This year's renewed effort by the Northern California Contest Club propelled the hotbed Santa Clara Valley (SCV) Section back into the top ten. The only sections not represented

were Northwest Territories (NT) and Newfoundland (NL), so no “Roundup” sweeps this year.



Here is Gary, NA6O, operating ‘Ice Station Zebra’ during RTTY Roundup. “It’s cold in the garage/shop/shack, so I wear two sweatshirts, down booties, gloves, and some kind of hat, and have a little space heater under my feet. The XYL was nice enough to bake cookies to help keep my BIC (butt in the chair – Ed.) for over 15 hours.” (Photo credit – Gary Johnson, NA6O)

### West Coast Region

Chris, N6WM – back with a full-time effort for the first time in six years – operated the “Radio Oakley” N6RO superstation in a drive to the top West Coast SOUHP spot and third overall. Along the way, he survived a 30-second power failure that took down the whole station and corrupted his logging program database. He also survived N6RO’s lasagna. On his contest strategy: “Having reviewed my rate sheet from my last effort in 2010, I initially intended on operating until 0700 and taking my 6 (hours of off-time) in one shot. I sat down to eat some lasagna and to review my log, and noticed printed European stations coming up. Concerned there may be a limited EU opening to W6 on Sunday AM, I chose to spend another 45 minutes QRV adding EU and JA mults to the log. Thank goodness there are 2 allowed off time periods. I will probably use this new strategy in the future since EU mults are so important to W6 in this contest.”

The second spot in SOUHP went to K6LL: “There was hardly any opening to Europe and not much activity from Japan, but there was no shortage of domestic QSOs to keep the fun going.” Dave still set a new Southwestern Division record and took fourth overall. N6IE was tenth overall. Despite his XYL’s birthday, K2PO made it back to the SOLP top spot this year with a commanding score that was good enough for sixth place overall. Meanwhile in SOULP, we have N7UJJ in the top spot. In SOHP, W7RN (operated by yours truly with rubber chicken in tow) again took the top spot, and third place overall for the third year in a row (but I’m not bitter). K8IA was also in there fighting, placing eighth overall.



WK6I ready to start the RTTY Roundup at W7RN in northern Nevada. Current outside temperature 8° F. (Photo credit – Tom Taormina, K5RC)

### West Coast Region

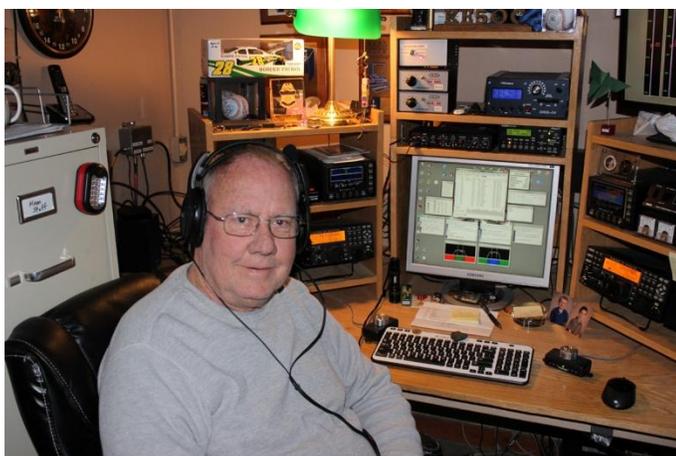
Call	Score	Category	QSOs	Mults	Operators
K2PO	123,740	SOLP	1368	92	
K7WP	70,310	SOLP	798	89	
KE7X	60,800	SOLP	812	76	
K6GHA	58,140	SOLP	777	76	
WN6K	56,848	SOLP	849	68	
N7UJJ	56,588	SOULP	679	86	
W1ZD	55,981	SOULP	633	89	
AF6SA	54,800	SOULP	699	80	
NC6B	48,125	SOULP	633	77	
W7OM	43,684	SOULP	679	67	
W7RN (WK6I, op)	283,291	SOHP	2522	113	
K8IA	186,224	SOHP	1829	103	
K6MR	174,688	SOHP	1665	106	
WC6H	140,244	SOHP	1529	93	
K6TU	128,712	SOHP	1388	93	
N6WM (@N6RO)	250,328	SOUHP	2209	116	
K6LL*	244,000	SOUHP	2010	122	
N6IE	193,842	SOUHP	1631	121	
W1SRD	192,576	SOUHP	1645	118	
VE7CC	189,189	SOUHP	1634	117	
WØPC/7	27,268	MSLP	405	68	WØPC/7, N6EVG, ACØNF, W7FIA, KF7STT
KDØLHI	4,332	MSLP	127	38	KDØLHI, KBØNHW
K6SU	173,072	MSHP	1503	116	KZ2V, N6DE
K6UFO	143,316	MSHP	1339	108	K6UFO, W6RK, N6DB, @W6YX
K7MO	113,952	MSHP	1234	96	K7BTW, K7MO, N7QT, K7VAP
K7JR	108,391	MSHP	1031	107	K7RF, K7ZO, KR7X
W6DR	98,802	MSHP	1012	99	W6DR, N9YS

\* New Division Record

## Midwest Region

The Midwest was hot – in winter, go figure – producing three new division records, two first-place winners in SOUHP and MSHP, two second places, and a bunch of other top ten finishes. WØLSD took the top spot in SOUHP and bumped up his Rocky Mountain Division record by 18,436 points. The great conditions noted on 10 meters at the start of this article may have had something to do with that. And on the low power side, WB5TUF bagged second place overall and nudged his West Gulf Division record by just 1,142 points, though he found 10 meters to be disappointing.

In the unassisted category, K0ØD was first in SOLP in the region and fifth overall, followed by NØAT, KE5OG, and NTØF who achieved fifth, seventh, and tenth overall respectively. KE5OG noted that the contest, “was a lot of fun and a lot of activity except for the lack of DX. The lack happens occasionally from the Black Hole of the Southwest. Sunday a.m. I could hear the East Coast working Europe but very little of the European stations got through to West Texas.”



“It was fun and I made a lot of QSOs - but DX, especially Europe - was not good... thus my QSOs up but mults down.”  
(Photo credit – Bill Brooks, KE5OG)

Rounding out the top five is VE4VT operated by VE4EAR. For whatever reason I always have trouble finding a VE4 during RTTY contests, so I would just like to say I am darn glad to see VE4VT here (and also thanks to VE4DPR!)

In SOHP, ACØC, ABØRX, K5DU, and W5AP also placed fourth, fifth, sixth, and ninth overall. ACØC’s score was also good enough to set a new Midwest Division record, busting the record set by ABØRX in 2013. ACØC added, “Fortunately no gear explosions or antenna failures - and other than the miserable A/K index at the start of the contest, weather was good with excellent quiet low band conditions. Great way to start off the year.”

K5DU achieved her score with only one radio, and had a nice incident on Sunday during the contest: “I was running and calling CQ RU K5DU K5DU CQ. KC1CWC called me. I gave my response, KC1CWC 599 TX TX KC1CWC. He responded, I AM NEW TO RTTY TODAY IS THIS WORKING ?? I answered, HELLO YES YOU ARE DOING FINE. He responded, THIS IS REALLY COOL. I answered, WHERE ARE YOU I AM IN TEXAS. He responded with MAINE. I answered, THANKS HAVE FUN I AM GOING BACK TO THE CONTEST. My reward for being nice is that he was a multiplier, my last state!”

## Midwest Region

Call	Score	Category	QSOs	Mults	Operators
KØAD	138,932	SOLP	1498	94	
NØAT	119,004	SOLP	1282	94	
KE5OG	107,352	SOLP	1293	84	
NTØF	104,700	SOLP	1051	100	
VE4VT (VE4EAR, op)	82,488	SOLP	993	84	
WB5TUF*	174,360	SOULP	1462	120	
WØBM	53,133	SOULP	598	89	
AAØAW	44,700	SOULP	605	75	
NTØAF (KD4POJ, op)	44,486	SOULP	762	59	
KØTG	41,949	SOULP	538	79	
ACØC*	273,552	SOHP	2275	123	
ABØRX	219,340	SOHP	2018	110	
K5DU	193,494	SOHP	1915	102	
W5AP	179,094	SOHP	1607	114	
NØGZ	84,760	SOHP	822	104	
WØLSD*	271,586	SOUHP	2068	133	
N5ZC	179,684	SOUHP	1570	116	
KØBX	70,560	SOUHP	680	105	
KØWA	62,240	SOUHP	804	80	
NØBK	56,175	SOUHP	541	105	
KN5S	78,624	MSLP	867	91	KS5TX, K5WW
NØHJZ	70,136	MSLP	814	88	ADØMJ, KA8HDE, NØHJZ, WØAD, WØOR, WBØVHF, WFØT
WØFRC	45,276	MSLP	702	66	KØGIE, KCØLNO, KØSU
K7MKL	44,326	MSLP	604	74	K7MKL, W6NF
K7EMR	2,628	MSLP	82	36	K7EMR, K4EMR
NØNI	255,750	MSHP	2097	125	NØAC, NØNI, NØXR, WØBNW, KDØGFQ, KEØBMF
NR5M	243,945	MSHP	1792	139	K5GA, KU5B, AB5K, NR5M, N1XS

WØSD	229,440	MSHP	1944	120	WØSD, W7XU, NØLAN, WØOE
KDØS	178,048	MSHP	1677	107	KDØS, WDØT
KIØF	155,414	MSHP	1331	119	KIØF, NØBUI, KB9S

\* New Division Record

## Central Region

If you are looking for the rest of the competition in MSLP, look no farther than the Central region. N8LRG took first place and first overall, followed by K9NR (second overall), K4FT (fourth), N9LAH (sixth), and KOØZ (ninth). N8LRG was pleased to have “passed the 1000-QSO mark from my new QTH!”

Sometimes setting the most modest of goals can still put you on top. On the other hand K9NR, “knew going into this contest that it would be a limited time effort...Christmas and family stuff. So, about 300 fewer Qs than last year. Still a lot of fun!” In MSHP, WZ8P took the first spot in the region.



WØELT in Wisconsin has four monitors so he can have 21 windows open. “Even kids that like video games seem to be impressed with the monitor setup. Of course, I kind of think of RTTY contests as video games for big kids.” He also goes on to note that since he installed a can cooler and a cup holder, “I haven’t tipped over a soda can or coffee cup on the keyboard or table and then have to try and mop it up before it runs off the table in the computers.” Good advice! (Photo credit – Richard Josephson, WØELT)

AI9T scored enough points to destroy the Central Division SOHP record set last year by NO9C in SOUHP by over 78,000 points. His score was also good enough for seventh overall, and was followed by VE3CX (ninth overall). W9ILY gained enough points to also place fifth overall in SOULP, followed by VA3DF (seventh).

In SOLP N9CK noted, “fewer EU mults this year but plenty of stations to work.” Steve got the top score in the region and earned second overall, but just missed a new division record by a small margin. And in SOHP, N8RU took top regional honors. Not making the regional

standings, but still setting a Great Lakes Division SOUHP record, was K8UT.

## Central Region

Call	Score	Category	QSOs	Mults	Operators
N9CK	184,575	SOLP	1614	115	
WE9V	103,416	SOLP	1121	93	
KD9MS	97,152	SOLP	1068	92	
K9WX	84,875	SOLP	885	97	
K8AJS	77,004	SOLP	835	93	
W9ILY	108,720	SOULP	912	120	
VA3DF	100,570	SOULP	894	113	
W4LC	62,580	SOULP	604	105	
N9TF	60,255	SOULP	594	103	
K9DJT	52,510	SOULP	601	89	
N8RU	135,968	SOHP	1226	112	
WA8KHP	115,988	SOHP	1091	107	
W9IU	113,715	SOHP	1099	105	
N4QS	65,937	SOHP	712	93	
W9IE	65,653	SOHP	813	83	
AI9T*	210,375	SOUHP	1695	125	
VE3CX	203,522	SOUHP	1698	121	
NO9C	149,766	SOUHP	1391	109	
VE3KI	141,954	SOUHP	1207	118	
KS9W	113,316	SOUHP	1023	114	
N8LRG	93,492	MSLP	980	98	N8LRG, KA8ZNY
K9NR	83,556	MSLP	871	99	K9NR, K9QT
K4FT	75,068	MSLP	776	98	K4FT, K4OH, KT4HR, W5MX
N9LAH	61,318	MSLP	721	86	N9LAH
KOØZ	42,930	MSLP	548	81	KOØZ, KC9ULA
WZ8P	124,938	MSHP	1287	99	WZ8P, W8TJT, KE8YP
N2BJ	120,832	MSHP	1033	118	N2BJ, K2PAC
KD8ZJO	61,264	MSHP	560	112	KD8ZJO, N8FLW, KD8ZJO
KEØL	48,269	MSHP	618	79	KEØL
KE4YVD	44,526	MSHP	579	82	AJ4A, KF4REN, KJ4PXR, AG4ZA, KK4NZI, KJ4YLR, K4BLP, KO4OL, KJ4RPY, W14MPY, WC4V, JOSH

\* New Division Record

## Southeast Region

Founder of [rttycontesting.com](http://rttycontesting.com) and all-around RTTY Elmer, AA5AU can almost always be found at the top of the heap in any RTTY contest he puts his mind to. And clearly he put his mind to the RTTY Roundup, scoring first place overall in SOULP by a wide margin. AA5AU always has something to say, “Saturday was great; Sunday not so much. My low band numbers were about the same as last year. The numbers for 20 and 15 were swapped this year. I thought 15 would be better but it wasn’t. Ten was funny. Before the band opened to the west on Sunday, I had to beam to the Caribbean to work stateside. Called CQ and VP8NO calls me! That was fun. My favorite contest.” K9OM was second in the region

and third overall, which was also good enough for a new Southeastern Division record (and make up for losing the SOUHP record, see next paragraph).

On the SOHP side, W9SN – “first solo RTTY for me!” – made it to second place overall in SOUHP, and a new Delta Division record. Second in the region and fighting QSB on 40 meters, W4DXX still had enough for sixth overall and also a new Southeastern Division record, besting the record set last year by K9OM by almost 20,000 points.

### Southeast Region

Call	Score	Category	QSOs	Mults	Operators
KA4RRU	157,409	SOLP	1415	113	
NR4M	142,945	SOLP	1258	115	
AA4LR	81,189	SOLP	887	93	
WF7T	79,632	SOLP	958	84	
KD5LNO	72,675	SOLP	862	85	
AA5AU	230,160	SOULP	1944	120	
K9OM*	159,427	SOULP	1235	131	
AB4SF	80,325	SOULP	773	105	
WB2RHM	53,472	SOULP	566	96	
WO4O	49,868	SOULP	553	91	
AB4GG	178,750	SOHP	1630	110	
AG4W	147,900	SOHP	1290	116	
NU4Y	116,760	SOHP	1120	105	
K5XH	93,288	SOHP	1021	92	
WB8CQV	89,760	SOHP	959	96	
W9SN*	256,053	SOUHP	1894	137	
W4DXX*	229,274	SOUHP	1730	134	
W4PK	183,254	SOUHP	1569	118	
K4KGG	139,113	SOUHP	1150	123	
W4GKM	112,530	SOUHP	1249	93	
WA1F	12,648	MSLP	250	51	WA1F, WA1S
W4RM*	199,936	MSHP	1592	128	W4RM, W7IY, K4RG
W4ML	151,032	MSHP	1227	124	K14UDF, W4MYA
W4AAW	126,259	MSHP	1086	119	W4TMO, W3UL, NE3H, W4AAW
W4MLB	120,862	MSHP	1294	97	AF4Z, K9ES, K4FIT, K4HWF, KA4JRY, KM4HGL, KW1P, NB4C, WB5ZGA
W4TA	99,320	MSHP	984	104	AA2MF, KP2N, KR4U, K14UIP, N2ESP, N4GD, N4KPJ, N4RI, NY4I, W4CU, W4TSP, WA4EEZ

\* New Division Record

KA4RRU and NR4M – “just trying out a new radio” – placed first and second in the region for SOLP and third and fourth overall. AB4GG took the top SOHP and tenth overall. In MSHP, W4RM snagged a Roanoke Division record and fourth overall, with W4ML eighth overall, and had a few opinions to express: “The W4RM Team had a great time operating this year. The station worked great and the rates stayed high so what more can you ask for.... Except for the ARRL to revisit the rule of M/S only having 6 band changes an hour. Why limit M/S to 6 band changes per hour and allow all others unlimited band changes?” Why, indeed – write your ARRL Director! And in the “sometimes it is enough to show up and submit a log” category, WA1F gets the regional glory in MSLP.

### Northeast Region

Wrapping up this regional extravaganza, we have two first places overall. In SOLP, VA2UP once again takes top honors. He writes, “I expected pretty poor conditions and sure enough got them on Saturday on 15 and 20 but low band activity on Saturday night was pretty good. Better on the high bands for Sunday. All in all I can't complain although you always would like...more ha ha!” N1IXF placed second in the region and ninth overall, and he had a similar thrill to AA5AU, “Highlight was having VP8NO call me when I was trying to scrounge up a run on 10M. Time for a Manhattan!”

The other overall first place – after just missing it for the last two years – was achieved by AA3B in SOHP. Nipping very closely at his heels was last year's winner, NN1SS. In fact, their scores were quite close as a quick examination of the table will reveal. Even though NN1SS had more QSOs, just 4 extra multipliers found by AA3B made up the difference. K1RO was a little ways back, placing seventh overall.

In the Unlimited categories, N2WK set a new Atlantic Division record and placed fifth overall. He writes, “Got sucked in with what I thought was a good 10m opening but all it did was slow me down. Enjoy this contest no matter what class I operate but would like to see a multi-two category someday. Thanks for all the Qs and HNY in 2016!” (Stop calling me honey! – Ed.) K1MK – operating at K1TTT – was not too far behind and placed eighth overall. W3FIZ took the – regional SOULP first and fourth overall – followed by VE2EBK at sixth overall. KU2M scored enough to set a new Hudson Division record in SOULP with just 77,066 points and ninth overall. In MSLP even though a work trip reared its ugly head, the lone entry by N2GTS takes the top spot, and in MSHP NJ3I also placed ninth overall.

## Northeast Region

Call	Score	Category	QSOs	Mults	Operators
VA2UP	199,953	SOLP	1717	117	
N1IXF	104,790	SOLP	1005	105	
W2GR	101,088	SOLP	990	104	
K3AJ	73,514	SOLP	830	89	
WX1S	57,420	SOLP	663	87	
W3FIZ	115,020	SOULP	1078	108	
VE2EBK	102,816	SOULP	927	112	
KU2M*	77,066	SOULP	685	113	
AB1J	67,640	SOULP	760	89	
KE2D	56,256	SOULP	587	96	
AA3B	299,776	SOHP	2354	128	
NN1SS	295,864	SOHP	2412	124	
K1RO	191,874	SOHP	1711	113	
W3LL	170,016	SOHP	1553	112	
4U1WB	145,640	SOHP	1349	110	
(AJ3M, op)					
N2WK*	241,617	SOUHP	1893	129	
K1MK	207,281	SOUHP	1519	137	
(@K1TTT)					
N3QE	164,424	SOUHP	1340	124	
WA2TMC	129,136	SOUHP	1177	112	
K3MD	126,500	SOUHP	1135	115	
N2GTS	27,807	MSLP	412	69	N7TY, N2GTS
NJ3I	149,677	MSHP	1250	121	NJ3I, NB3R, N3OW
K3MJW	131,600	MSHP	1204	112	WC3O, K3RMB, KC3CSI, KC3CSH, KB3EYY, NK3P, WB3BUW, AB3LS, WA3KFS, W3VYK
WN1E	123,312	MSHP	1116	112	WN1E, W1QA
K3OQ	59,094	MSHP	613	98	K3OQ, W3RFC, WA3OFF, KC3BXK
W1AN	44,590	MSHP	504	91	W1AN, KB1RFJ

\* New Division Record

## DX Highlights

DX participation continues to drop off, especially in Europe and South America, while other continents are more or less flat. Anecdotally I know that participation is higher, it's just that logs are not being submitted for whatever reason. For one example, several comments and my own experience indicate that there were many ZS calls in the logs, but only one ZS log was received.

Also, this year was the first year I received check log submissions in the data I use to compile this report. A total of 89 checklogs were received, 70 of those from DX, and most of those from Europe. I'd like to infer that adding those 70 logs into their appropriate categories would indicate an increase in DX, not a decrease, but I don't have data from previous years available as of this writing to be able to infer that. It is something I'll keep an eye on going forward

Anyway, there were just 5 new DX records, and following the pattern for W/VE, all are in the newer Unlimited categories. In fact, EA8/IK1PMR set the unclaimed record for SOUHP for Africa, and according to the Soapbox was the only African contact for some operators. And KH6ZM substantially increased the SOULP Oceania record from 2,340 to 98,212!

XE2K intentionally set out to set a new SOULP record for XE. Why? Because he already holds all of the records in every other category! Only SOULP – set by XE2FGC in 2014 – remained. In the effort, he also managed to break the SOULP North America DX record VP9/K4KGG set last year, and had this to say about the effort, “This year I was focused to break the 2014 SOULP record in Mexico. The forecast for the propagation was not good, like the actual propagation, but I can say that that the very poor opening to EU and the few Asian stations played good for me. Not all the stations contesting were beaming all the time to EU to catch multipliers, which gave me good rates and many more contacts that I was expecting for my low power and the low propagation. It was a surprise to have that good response despite my disadvantage to be just outside the corner of US, only 1 mile south of CA.”

## DX Participation, by Continent

Continent	2016 logs*	2016 % of total DX logs	2015
AF	8	1.1%	7
AS	134	18.2%	133
EU	522	70.8%	569
NA (non W/VE)	31	4.2%	33
OC	21	2.8%	21
SA	21	2.8%	31
Total logs	737	100%	794

\* does not include 70 DX check logs also received, mostly EU with 61

## New DX Records

Call	Location	Category	Score	QSOs	Mults
EA8/IK1PMR	Africa	SOUHP	20,867	271	77
IT9BLB	Europe	SOULP	122,428	972	127
XE2K	North America	SOULP	139,314	1328	107
KH6ZM	Oceania	SOULP	98,212	1169	86
YV1KK	South America	SOULP	167,388	1478	116

Looking at the Top Tens, in SOULP the top four entries each managed to also set their continental record. First place YV1KK improved on the South America record he set last year, by a considerable margin of over 38,000 points. As noted above, second place XE2K laid claim to all XE records by smashing the record set by XE2FGC in 2014, by over 85,000 points. IT9BLB - who noted that “Low Power and two radios is a perfect mix to have a lot of fun without some of the typical problems of QRO” - placed third overall and took the sledgehammer to IT9MUO's 2014 record by over 50,000 points. And, as noted above KH6ZM pulverized DU3/KL7IWC's 2015 mark of 2,340 by, well, a whole bunch!

## Top Ten DX

### Single Operator, Low Power

ZF2LL	144,200
F5BEG	94,930
UR2Y (USØYW, op)	71,208
IU4CHE	61,610
CO8ZZ	59,598
YV5AAX	56,762
UT5EPP	51,832
M7V (MØVAA, op)	51,256
SP9H	50,819
UC6A	50,086

### Single Operator, High Power

UR7GO	138,666
PZ5RA	122,208
LU5VV	115,992
EMØI (UT2IZ, op)	115,696
G8DX	107,968
SG5Z (SM5GMZ, op)	89,252
IK4GNI	78,780
EU6AF	78,432
OK6RW	78,431
DKØEE (DL4MDO, op)	77,740

### Single Operator Unlimited, Low Power

YV1KK	167,388
XE2K	139,314
IT9BLB	122,428
KH6ZM	98,212
IK3TPP	79,686
DF2F (DF2SD, op)	72,822
EA1DR	62,208
XE1HG	54,777
SP1C	44,560
LZ1FCN	37,080

### Single Operator Unlimited, High Power

SP7GIQ	190,350
6Y4K	168,222
TK5MH	139,376
OH2HAN	106,436
IT9MUO	96,136
DL3BQA	95,484
DJ6QT	94,996
G3ORY	90,310
YT2U	88,818
SV2BFN	78,144

### Multioperator, Low Power

IQ2CU	52,650
WL7F	33,341
OT6M	28,086
SP3PJY	26,112
OK2RVM	24,822
EI1E	14,820
PD2LH	13,224
DF4WC	11,926
JJ2YKZ	680

### Multioperator, High Power

9A5Y	196,413
OL7M	191,380
LZ7A	98,475
EA1AP	85,330
YU3AWA	72,000
EA2RY	70,840
ON8AJ	63,555
JH4UTP	38,285
SP5SR	7,800
SK3W	5,676

Rounding out the SOULP Top Ten, the other six places were dominated by Europe, with the exception of XE1HG in eighth. Looking at SOUHP, the results were

even more Eurocentric, with a lone NA station out of Jamaica 6Y4K being edged out of first place by SP7GIQ (and a new SP record). Third place TK5MH appreciated “the 30 hour time frame of this contest. I was able to do a serious effort and to have spare time for family. The harder is to go back at work on monday after 4 hours of sleep ;-) The activity was not as high as expected, with a best hour qso rate of no more than 80. ...I was able to collect all the US states for the first time during this contest, thanks for the rare ones to be here (SD,ND,UT,WY) Only 6 Canadian provinces, I don't know where they disappeared? I made 60% europeans and 30% US, sorry that intercontinental QSO are only worth 1 point. So the strategy was simple : find the most busy band and calling... I used an old FT920, so the bad selectivity made it difficult to find a quiet frequency sometimes. Antennas : 2 element moxon at just 10m on the roof and short vertical for the low bands. Tks to all the callers who gave me a lot of fun HNY”

In the non-assisted categories, WW4LL borrowed VE1EJ's station in the Caymans to give North America a first place and a new record in SOLP with a solid score using the call ZF2LL, way ahead of second place F5BEG. SOHP was much closer with UR7GO just outlasting South Americans PZ5RA and LU5VV.



ZF2LL (WW4LL) meets ZF1EJ (VE1EJ) at the Grand Cayman Amateur Radio Club. (Photo credit – Fred Dennin, WW4LL)

In the multi-operator categories it was almost all Europe all the time, with IQ2CU taking first in MSLP, and according to their Soapbox remarks, it was all done with a vertical and a dipole! North American WL7F took second with more antennas but apparently less propagation, “Well that was fun. Our host Wes provided his station for a multi operator run. The team met the goal of exceeding the prior Alaska record for category [indeed they did - WK6I]. Night opening to EU was weak but provided valuable multipliers. Station is off grid powered with batteries, solar power and small

generator to charge batteries. Heated only by wood in the middle of the vast trackless wilderness of Alaska. Yagi rotator is host Wes who climbs tower as needed.” And as noted at the start of this report!

We also have to take note of third place OT6M, who got some much needed RTTY practice, and – bonus! - got out of weekend chores: “Every year I make an overview of contests for the XYL ... so she knows when she can and can not bug me with chores :) Then I noticed that this weekend the first interesting contest of the year takes place: the ARRL RTTY Roundup. We never participated in that contest so just briefly before the contest we decided to participate. Mainly to get some more experience in RTTY contesting, as we both run low on RTTY experience.” Nice job!

There was a very close finish in MSHP won by 9A5Y over OL7M. Talk about what a difference a single multiplier makes: 9A5Y had one fewer QSO than OL7M (1403 vs 1404) but had one more multiplier - 141s vs 140! Oh, the luck! But that’s not the whole “tale of the tape”. In log checking, 9A5Y had fewer call logging errors than OL7M. If OL7M had had fewer penalty points from incorrect call logging, it still could have swung the other way.

### New W/VE Division Records

Call	Division	Category	Score	QSOs	Mults
N2WK	Atlantic	SOUHP	241,617	1893	129
AI9T	Central	SOUHP	210,375	1695	125
W9SN	Delta	SOUHP	256,053	1894	137
K8UT	Great Lakes	SOUHP	65,890	607	110
KU2M	Hudson	SOULP	77,066	685	113
ACØC	Midwest	SOHP	273,552	2275	123
W4RM	Roanoke	MSHP	199,936	1592	128
WØLSD	Rocky Mountain	SOUHP	271,586	2068	133
W4DXX	Southeastern	SOUHP	229,274	1730	134
K9OM	Southeastern	SOULP	159,427	1235	131
K6LL	Southwestern	SOUHP	244,000	2010	122
WB5TUF	West Gulf	SOULP	174,360	1462	120



“The RTTY tests are quickly becoming my favorites, and this was my first time ever in the "RU". Sit, tune, point and click. Doesn't get much easier than that, and it's pretty easy to eat meals while operating!" (Photo credit – Mike Ritz, W7VO)



Alex, OK1RS running at second-place Multiop, High Power station, OL7M. (Photo credit - Pavel Prihoda,, OK1OEA)

### New W/VE Records and Top Ten

I can't help but notice looking at this table of new division records, that many of the Unlimited records still haven't reached their “level”. In fact, note that all of these new records are in Unlimited with only two exceptions. Why not pick one of the records in Unlimited that hasn't yet found its level, and try to set a new “high bar”? I'll just note in passing that K8UT and KU2M should be watching their backs. (As of this writing the RTTY Roundup records through 2015 can be found at [www.arrl.org/contest-records](http://www.arrl.org/contest-records).)

## Top Ten US/VE

### *Single Operator, Low Power*

VA2UP	199,953
N9CK	184,575
KA4RRU	157,409
NR4M	142,945
KØAD	138,932
K2PO	123,740
NØAT	119,004
KE5OG	107,352
N1XF	104,790
NTØF	104,700

### *Single Operator, High Power*

AA3B	299,776
NN1SS	295,864
W7RN (WK6I, op)	283,291
ACØC	273,552
ABØRX	219,340
K5DU	193,494
K1RO	191,874
K8IA	186,224
W5AP	179,094
AB4GG	178,750

### *Single Operator Unlimited, Low Power*

AA5AU	230,160
WB5TUF	174,360
K9OM	159,427
W3FIZ	115,020
W9ILY	108,720
VE2EBK	102,816
VA3DF	100,570
AB4SF	80,325
KU2M	77,066
AB1J	67,640

### *Single Operator Unlimited, High Power*

WØLSD	271,586
W9SN	256,053
N6WM	250,328
K6LL	244,000
N2WK	241,617
W4DXX	229,274
A19T	210,375
K1MK (@K1TTT)	207,281
VE3CX	203,522
N6IE	193,842

### *Multioperator, Low Power*

N8LRG	93,492
K9NR	83,556
KN5S	78,624
K4FT	75,068
NØHJZ	70,136
N9LAH	61,318
WØFRC	45,276
K7MKL	44,326
KOØZ	42,930
AA9L	28,152

### *Multioperator, High Power*

NØNI	255,750
NR5M	243,945
WØSD	229,440
W4RM	199,936
KDØS	178,048
K6SU	173,072
KIØF	155,414
W4ML	151,032
NJ3I	149,677
K6UFO (@W6YX)	143,316

## A Cautionary Tale

We're going to add a penultimate word of caution. For many that operate in a contest, the score is not really interesting – they are chasing DX, or maybe just enjoying a bit of rate. For others, comparing claimed scores on 3830scores.com is sufficient to see how they did. But for the top scorers, the proof of the pudding is in the log checking.

If you go to the trouble to travel to a distant land, set up your station and rack up a fine score, missing that final step – submitting your Cabrillo log file – can happen to the most seasoned contester, even one who is a contest director himself.

Most casual RTTY Roundup operators will recognize Ed Muns, WØYK as the perennial DX winner of this event from Aruba, operating as P49X. You might have noticed that P49X does not appear in the results this year. Here's what he has to say about that: "My recommendation is for everyone to submit their log before they leave the operating position at the end of the contest. They can always submit again later with no penalty if they have notes to correct typing errors. But at least a log is submitted which is always better than no log.

"Roundup ends at 8pm local time in Aruba and I'm usually rushing to shower and get to dinner before restaurants close. I literally bust out of the radio room when the final bell rings. Then, I go straight to bed and start tearing down the station and packing the next morning. Still, my advice above applies. Everyone has their excuses." 'Nuff said.

## Golden Logs

Finally, here is a listing of “golden logs” – in other words, these logs with a minimum of 100 QSOs survived log checking with no errors and no QSOs removed. Congratulations to WØPI for having the Golden RTTY Roundup Log of the Year!

### Golden Logs

*100 or more QSOs, no errors*

Call	QSOs	Score
WØPI	410	25,010
W9BU	365	24,090
N5NA	305	20,435
K2KIB	271	17,073
N3FCP	256	19,200
K3IU	236	18,644
KE7AUB	206	10,712
W7PP	202	12,120
NAØN	200	10,800
K4BX	200	11,600
K5DHY	160	7,840
IK1MEG	160	8,000
VE3MCF	155	7,440
AC5AA	155	8,215
KE6QR	154	7,084
DL5KUT	150	9,750
N5UM	149	6,258
NU1O	147	10,437
RJ7M	146	4,380
F5CQ	146	10,658
W9VQ	139	10,008
K8ESQ	135	7,425
SA6CBY	124	3,968
VE2QV	120	5,520
RAØLMV	118	3,422
K4WQ	116	6,032
NOØL	114	4,902
K5WW	114	4,674
N3HEE	111	4,773
K9ZM	111	4,884
W1UJ	109	4,905
DL2BQV	108	4,536
W3OD	106	5,724
KC1AXJ	103	3,914
N6PZ	101	4,242
W1ZFG	100	4,000
DJ8OG	100	4,500



“The only thing new this year in terms of hardware was the use of a mini wireless keyboard/mouse. While it is not very practical when in S&P mode, it did come quite handy during those times when I managed to squeeze in some run time. It allowed me to actually lean back in my chair, grab the callsign with the mouse pad and hit the appropriate function keys. Some may call it lazy, but I call it efficient!” (Photo credit – Scott Schultz, NØIU)

K7XC has a tidy little antenna farm in the desert of northern Nevada - all home brew! (Photo credit – Tim Marek, K7XC)



## Thank You Plaque Sponsors!

Every year I put out the word about plaque sponsorship to all RTTY enthusiasts and contest clubs around W/VE-land and the world. The response is always wonderful and overwhelming, or as Bart W9JJ (our new ARRL Contest Director) put it, “These things are going like hotcakes!” Please take a look at the table to see who has stepped up to help. And if you have received a plaque, please take a moment to thank the sponsor!

### Sponsored Plaque Winners

*Thanks to the generous support of numerous clubs and individuals, we are pleased to list the winners of the Sponsored RTTY Roundup plaques below. For more information on plaque sponsorship or to order a duplicate plaque, contact ARRL Contest Branch Manager Bart Jahnke, W9JJ, at 860-594-0232 or [w9jj@arrl.org](mailto:w9jj@arrl.org). Plaques costs \$75, which includes all shipping charges.*

<i>Plaque Category</i>	<i>Plaque Sponsor</i>	<i>Winner</i>
W/VE Single Operator High Power	Preston Radio Club, W7PRC	AA3B
W/VE Single Operator Low Power	Ray Day, N6HE	VA2UP
W/VE Single Operator Unlimited High Power	Jeff Stai, WK6I	WØLSD
W/VE Single Operator Unlimited Low Power	Frank Fallon N2FF	AA5AU
W/VE Multioperator High Power	John Lockhart, WØDC	NØNI
W/VE Multioperator Low Power	Dan Karg, KØTI	N8LRG
DX Single Operator High Power	Rick Tavan, N6XI	UR7GO
DX Single Operator Low Power	Rich Cady, N1XF	ZF2LL
DX Single Operator Unlimited High Power	Charles Anderson, KK5OQ	SP7GIQ
DX Single Operator Unlimited Low Power	“Joe,” IT9BLB/KF6FBC	YV1KK
DX Multioperator High Power Paolo Cortese, I2UIY, Memorial	Ed Muns, WØYK	9A5Y
Hudson Division Single Operator High Power	Frank Fallon, N2FF	W2CG
Hudson Division Single Operator Low Power	The New Providence ARC Digital Group	WB2COY
Midwest Division Single Operator Low Power	Sand Hills Amateur Radio Club of Southwest Kansas	NTØF
New England Division Single Operator High Power	CTRI Contest Group	NN1SS
Northwestern Division Single Operator High Power	Hank Lonberg, Jr., KR7X	W6AEA/7
Pacific Division Single Operator High Power	Northern California Contest Club	W7RN
Pacific Division Single Operator Low Power	Dick Wilson, K6LRN, & Carolyn Wilson K6TKD	K6GHA
Pacific Division Multioperator High Power	Steve, W1SRD, and Doris, KØBEE	K6SU
Roanoke Division Single Operator Low Power	Mike Sims, K4GMH	KA4RRU
Roanoke Division Single Operator Unlimited High Power	Mark Sihlanick, N2QT	W4PK
Canada Single Operator Unlimited High Power	Tom Haavisto, VE3CX	VE3CX
South America Single Operator Low Power	Ron Dohmen, NØAT	VY1KK

### The Last Word

That concludes your roundup on the Roundup (someone had to say it). If there is anything here you’d like to comment upon or discuss with me, I would be happy to hear from you. I can be reached at [wk6i.jeff@gmail.com](mailto:wk6i.jeff@gmail.com) – or you can find me lurking on any of several contesting-oriented email reflectors, including [rtty@contesting.com](mailto:rtty@contesting.com), [cq-contest@contesting.com](mailto:cq-contest@contesting.com), and my home club [nccc@contesting.com](mailto:nccc@contesting.com).