



# 2020 ARRL November Sweepstakes, Phone Results

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Once again we gratefully acknowledge the work of Tree N6TR, Trey N5KO, and Paul N1SFE in preparing the logs and leader lists for this and many other contests. Without them, and many others working hard behind the scenes, there would be no Sweepstakes writeup. Thank you, all.



Well over 2000 stations submitted logs this year, a very healthy increase over last year's total of under 1600 (but "healthy" might not be the best word, since the increase may have been due to a lot of people looking for something to do during these "unhealthy" stay-at-home COVID-19 times). The number of QSOs reported also had a substantial bump – about 427k, compared to 346k last year. Median top-ten scores followed the pattern, up 20-25%. And the best news of all might be that more than 10% of the QSOs were on 15 meters! Maybe this is a sign that high-band conditions are starting to improve.

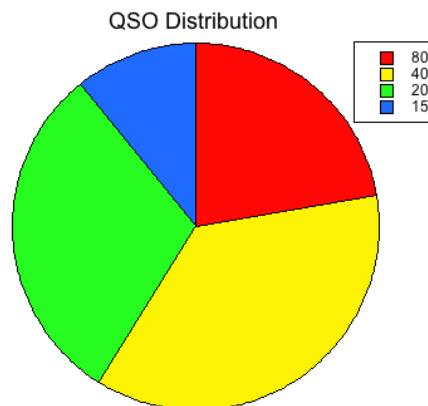
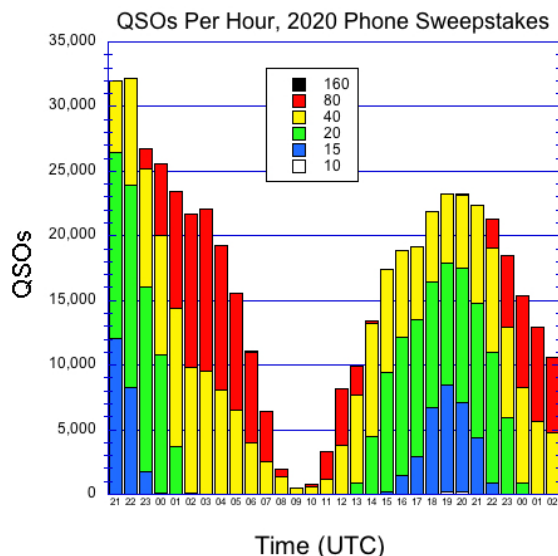
## Conditions

With a sunspot number of 23 and the SFI ranging from 85 to 88 during the contest period, band conditions were notably better than in last year's running, which coincided with the endpoint of Solar Cycle 24.

23-Nov-2020 03	88	27	2	Minor w/G1 -> No Storms
23-Nov-2020 00	88	27	3	Minor w/G1 -> Minor w/G1
22-Nov-2020 21	88	28	4	Minor w/G1 -> Minor w/G1
22-Nov-2020 18	85	12	4	Minor w/G1 -> Minor w/G1
22-Nov-2020 15	85	12	5	Minor w/G1 -> Minor w/G1
22-Nov-2020 12	85	12	4	No Storms -> No Storms
22-Nov-2020 09	85	12	4	No Storms -> No Storms
22-Nov-2020 06	85	12	4	No Storms -> No Storms
22-Nov-2020 00	85	12	4	No Storms -> No Storms
21-Nov-2020 21	85	12	3	No Storms -> No Storms

On the downside, a fast-moving stream of solar wind flowing from a northern hole in the sun's atmosphere, first reaching Earth on Nov. 21<sup>st</sup>, sparked auroras in the USA as far south as Wyoming, pushing the K-index to 5 at 1500Z on the 22<sup>nd</sup>. With G1-class geomagnetic storms breaking out for several hours that day (Sunday), as shown in the above SH/WWV listing, northerly stations suffered considerable propagation disruptions. There were several comments in the SS soapbox and on 3830 expressing joy in snagging NT and AK early since they both virtually disappeared on Sunday.

The graph below shows the number of QSOs per hour, per band, for the entire contest. It looks a lot like the graphs we've published in previous years, with a couple of exceptions. First, the contest started with over 32,000 QSOs in each of the first two hours – a large increase over the 22k in 2019's contest. Secondly, 15 meters played a much bigger role in 2020 than in any year since 2017. Look at all that blue! And if you look closely enough at the 1900 and 2000 UTC data, you can even see some 10-meter QSOs creeping into the picture for the first time in several years. We hope these are signs of much better things coming in Cycle 25.



## Sweepstakes Categories

In 2020, ARRL added a new operating category to the running of SS: Single-operator Unlimited, QRP. With that addition, there are now 9 categories in the November Sweepstakes:

<i>Category</i>	<i>Abbreviation</i>	<i>Precedence</i>
Single-op, high power	SOHP	B
Single-op, low power	SOLP	A
Single-op, QRP	SOQRP	Q
Single-op unlimited, high power	SOUHP	U
Single-op unlimited, low power	SOULP	U
Single-op unlimited, QRP	SOUQRP	U
Multi-op, high power	MSHP	M
Multi-op, low power	MSLP	M
School	S	S

There were about 450 more logs submitted this year than last year, but the relative distribution among categories was nearly identical. As is almost always the case, SOLP was by far the most popular, with SOHP and SOUHP running neck and neck for 2<sup>nd</sup> place.

Interestingly, the two multi-op categories (high and low power) had a significantly smaller piece of the action this time – probably another effect of COVID-19, with fewer people willing to risk sharing a station with others.

<i>Category</i>	<i>Entries</i>
SOHP	351
SOLP	965
SOQRP	71
SOUHP	357
SOULP	199
SOUQRP	2
MSHP	48
MSLP	34
S	10

## New Records

Compared to last year, the flood gates opened when it came to new records. NØUR took advantage of a brand-new category and now holds the overall, division, call-area, and section records in SOUQRP, at least for this year. Looking at these results, the “place to be” for high scoring seems to be the West Gulf Division (TX and OK). New division records were set there in four categories. Congratulations to all the new record-holders. For anyone wanting to explore further, the complete set of records for this and all other ARRL contests is at <https://contests.arrl.org>.

## New Records Set in 2020

### Overall Records

<i>Category</i>	<i>Call Sign</i>
SOUQRP	NØUR

### Division Records

<i>Division</i>	<i>Category</i>	<i>Call Sign</i>
Central	SOUHP	K9CT
Central	MSLP	K9KE
Dakota	SOUQRP	NØUR
Great Lakes	SOHP	KW8N
Hudson	SOHP	W2RQ
Rocky Mountain	MSLP	KØUK
Southwestern	MSLP	NX6T
West Gulf	SOHP	K5TR
West Gulf	SOUHP	K5RT
West Gulf	SOULP	NT5V
West Gulf	SOUQRP	NO5V

### Call Area Records

<i>Call Area</i>	<i>Category</i>	<i>Call Sign</i>
WØ	SOUQRP	NØUR
WØ	MSLP	KØUK
W2	SOHP	W2RQ
W5	SOHP	K5TR
W5	SOULP	NT5V
W5	SOUHP	K5RT
W5	SOUQRP	NO5V
W6	MSLP	NX6T
W7	ND7K	MSHP
W9	SOUHP	K9CT
W9	MSLP	K9KE

### Section Records

<i>Section</i>	<i>Category</i>	<i>Call Sign</i>
WØ: CO	MSLP	KØUK
WØ: IA	SOLP	WØEWD
WØ: KS	SOHP	NJ8M
WØ: MN	SOUQRP	NØUR
WØ: NE	SOUHP	KVØI
WØ: NE	MSHP	KRØP
WØ: SD	SOULP	KØBBC
W1: EMA	MSLP	W1FM
W1: VT	SOULP	K1EP
W2: NNJ	SOHP	W2RQ

W2: NNY	SOUHP	N1SNB
W2: WNY	SOUHP	AB3CX
W3: DE	MSHP	NG3R
W3: WPA	SOULP	N3AAA
W4: KY	SOUHP	ND4Y
W4: SC	SOUHP	K3DNE
W4: SC	SOULP	KN4SMO
W4: SFL	SOUHP	KK9R
W4: VA	SOHP	K4ZW
W5: NTX	SOUHP	K5RT
W5: NTX	SOULP	NT5V
W5: OK	SOULP	WDØGT
W5: STX	SOHP	K5TR
W5: STX	SOUQRP	NO5V
W5: STX	MSLP	W5AFV
W6: EB	MSHP	N6WM
W6: LAX	SOUHP	K6LA
W6: SDG	SOLP	K6JO
W6: SDG	MSLP	NX6T
W6: SB	SOULP	W6TK
W7: AZ	MSHP	ND7K
W8: OH	SOHP	KW8N
W8: WV	SOLP	N8II
W8: WV	SOULP	WT8WV
W9: IL	SOUHP	K9CT
W9: IL	MSLP	K9KE
W9: WI	SOULP	W9AV
VE5	SOQRP	VE5MX
VE3: GTA	SOULP	VA3RSX
VE3: ONE	SOULP	VE3PJ
VE3: ONS	SOHP	VE3YT
VY2	MSHP	VY2NA

## Clean Sweeps

The big news in the multiplier arena this year was the establishment of Prince Edward Island as a separate section, split off from Maritime, resulting in a new total of 84 needed for a Clean Sweep. There are a couple of big stations there, so one would assume it would not be particularly rare. That assumption would be wrong. Only one log (VY2NA) was submitted, with 260 QSOs, although there were at least 2 other PE stations on. At the other end of Canada, just three small logs from NT were received, totalling 123 contacts.

One or both of those sections were missed by enough people to keep the number of Clean Sweeps achieved down to a paltry 39, the lowest total in memory. The

advantage of spotting assistance (and power) was highly evident, as shown here:

Category	Sweeps	
SOUHP	23	(6.4%)
SOHP	6	(1.7%)
MSHP	5	(10.4%)
SOULP	2	(1.0%)
SOLP	1	(0.1%)
MSLP	1	(2.9%)
S	1	(10.0%)
SOQRP	0	0
SOUQRP	0	0

Below is a roster of all stations successfully completing the 2020 Sweep:

SOUHP:	K4WI, KØEU, K3WJV, K3WW, K3RA, W3LL, WB2ZAB, KG8CW, N1LN, N6AR, NA4DA, K5RT, WBØTEV, W7RN, KH7M, N4IQ, W6PZ, N2MM, N5RZ, W1SRD, N1RM, N3JT, N4RA
SOHP:	W2RQ, K5RX, NC1CC, AE6Y, WC6H, K4ZW
MSHP:	ND7K, N6WM, N3OC, W5RRR, WA1J
SOULP:	K2DRH, NT5V
SOLP:	W4AAA
MSLP:	WW4LL
S:	KØHC

Depending on your average run rate, the effect of missing multipliers may be less than first thought. Consider the following table, showing a hypothetical log in the first row with 2000 QSOs and a Sweep. Below that are entries showing how many contacts would be necessary to bring the final score up to the same number after missing 1 – 5 sections.

Sections	QSOs	Score
84	2000	336,000
83	2025	336,150
82	2049	336,036
81	2075	336,150
80	2100	336,000
79	2127	336,066

At this level, 24-27 additional QSOs are required to make up the loss of each multiplier. K5TR, the SOHP winner, maintained a rate of 96 Qs/hour, or 1.6 Qs/minute (after log-checking) through the entire contest period. So, 25 contacts would require just 15.6 minutes, on average, to amass. An unassisted op would have little chance of finding a mult, especially a rare one, especially near the end of the contest, in just 15 minutes. So, letting the Sweep go may be the best strategy, however unsatisfying.

From K5TR's 3830 posting:

*I do not worry about mults in this contest - and I almost always get a sweep but some years it is not to be. My take on it is that I am not going to alter my operating much to try to get a sweep because I do not want to sacrifice rate for one or two mult[s]. This year I missed NT.*

## Accuracy Matters

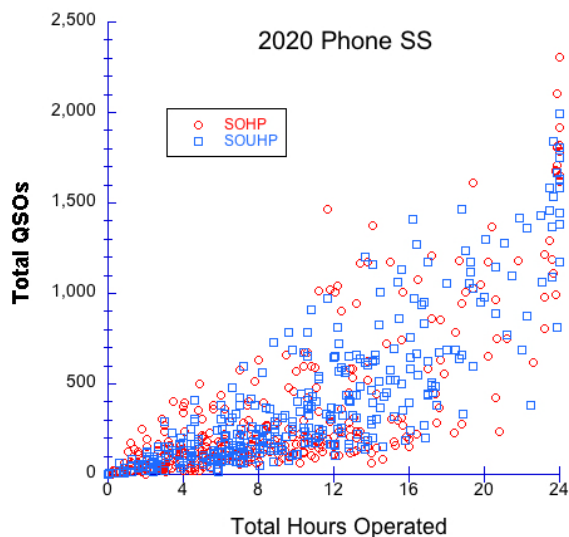
We publish an Accuracy Honor Roll each year because we think copying and logging are very important, and we hope you do, too. To make the list, you need 300 or more QSOs and an error rate of 1% or less. This time there are 19 call signs on the list, less than 1% of all entrants. Special congratulations go to N9LQ and W3UL, the only two with Golden Logs (no errors)!

### 2020 Phone SS Accuracy Honor Roll

Call Sign	Category	QSOs	Error %
N9LQ	SOUHP	372	0.0
W3UL	SOUHP	310	0.0
N9TF	SOULP	431	0.5
K1DG	SOHP	363	0.5
KC1SQ	SOLP	458	0.6
WE9V	SOHP	344	0.6
W3EAX	SOUHP	309	0.6
WBØN	SOUHP	308	0.6
W7YAQ	SOHP	661	0.8
KØNEB	SOULP	620	0.8
K8NVR	SOLP	500	0.8
W1FM	ML	387	0.8
K8AO	SOHP	963	0.9
WA8ZBT	SOULP	342	0.9
W7UT	SOLP	327	0.9
KF9UP	SOULP	313	0.9
NØHJZ	SOULP	845	1.0
N5UM	SOHP	384	1.0
N9EAX	SOLP	304	1.0

## Operating Time

Also known as “chair time” or “butt in chair time”, operating time obviously plays a key role in how many QSOs anyone makes. But, as the graph below illustrates, your mileage may vary. A lot.



The graph shows the total number of QSOs logged by all of the single-op high power stations (both traditional and unlimited) versus the amount of time they operated. There is a tremendous amount of scatter in the data. For example, stations that operated about 12 hours logged anywhere from 100 to 1400 contacts. Differences in geography, antennas, experience, propagation, skill, and competitive drive (but evidently *not* whether the station used spotting assistance) all play into the results.

One thing is certain: All of the data along the right side of that graph represent competitors that were at the top of their categories – if you want to have a chance of winning any of the most competitive categories, you need to keep your butt in the chair for most or all of the allowed 24 hours.

Category	Average Operating Time
MSHP	23.90 hrs
SOHP	23.94 hrs
SOLP	21.45 hrs
SOUHP	23.36 hrs

## Affiliated Club Competition

Many ARRL-sponsored contests, including the DX and VHF 'tests, the 160-meter and 10-meter contests, and of course the November Sweepstakes, are designated as *Affiliated Club Competitions*. Gavels (instead of plaques)

are awarded each year to the ARRL-affiliated clubs with the highest combined (CW+SSB) scores in three different club size divisions. Competition among the clubs encourages team spirit and results in more stations on the air, raising the scores of all participants, and allowing "little pistols" or ops with limited on-air time to contribute to a larger group effort.

The Unlimited and Medium size categories share the same territorial definition – stations must be either entirely within one ARRL Section, or within a 175-mile radius circle. The difference between them is in the number of logs submitted: A club with 51 or more entries is Unlimited, while those with 50 or fewer submissions qualify as Medium. There is also a Local category, with a 10-log limit and a 35-mile radius circle.

#### **Unlimited (>50 entries, ≤175-mile radius)**

<b>Club</b>	<b>Score</b>	<b>Entries</b>
Potomac Valley Radio Club	16,291,264	265
Society of Midwest Contesters	7,404,410	143
Frankford Radio Club	6,801,190	108
Yankee Clipper Contest Club	5,500,804	94
Minnesota Wireless Assn	5,426,414	132
Contest Club Ontario	3,027,398	51
Florida Contest Group	2,978,258	52
Northern California Contest Club	2,777,268	53

The Potomac Valley Radio Club dominated the Unlimited club competition again this year, with 265 entries and more than twice the score of the nearest competitor. PVRC's territory is centered near Richmond, VA and covers most of VA, MD, and DE, plus portions of PA, WV, and NC. With so many members on the air, the club is responsible for a significant fraction of all Sweepstakes QSOs.

#### **Medium (≤50 entries, ≤175-mile radius)**

<b>Club</b>	<b>Score</b>	<b>Entries</b>
Mother Lode DX/Contest Club	4,781,288	48
Southern California Contest Club	3,375,212	43
Arizona Outlaws Contest Club	3,183,916	43
Tennessee Contest Group	2,306,268	37
Grand Mesa Contesters of Colorado	2,293,130	30
Western Washington DX Club	2,039,486	27
DFW Contest Group	1,849,596	25
Mad River Radio Club	1,666,102	31
Central Texas DX and Contest Club	1,521,882	21
Willamette Valley DX Club	1,521,604	22
South East Contest Club	1,433,142	22
Big Sky Contesters	1,175,942	12
Kentucky Contest Group	1,158,974	23
North Coast Contesters	1,043,546	14

Great Places Contest Club	828,178	10
North Texas Contest Club	750,856	6
Hudson Valley Contesters and DXers	739,878	18
Georgia Contest Group	707,394	7
Alabama Contest Group	701,296	11
Swamp Fox Contest Group	670,352	13
CTRI Contest Group	573,868	13
Orca DX and Contest Club	526,002	7
NE Maryland AR Contest Society	464,186	19
Radiosport Manitoba	457,740	4
Bay Area DXers	409,782	5
Northeast Wisconsin DX Assn	386,656	3
Order of Boiled Owls of New York	386,056	10
Mississippi Valley DX/Contest Club	336,340	5
Rochester (NY) DX Assn	333,884	8
Niagara Frontier Radiosport	309,160	12
Saskatchewan Contest Club	255,166	4
Kansas City Contest Club	253,124	3
Louisiana Contest Club	229,656	4
Texas DX Society	182,630	9
Delara Contest Team	182,104	3
Bolingbrook ARS	140,250	5
Pacific Northwest VHF Society	139,250	4
South Jersey Radio Assn	136,626	6
Spokane DX Association	106,358	4
Carolina DX Association	98,648	8
New Providence ARC	88,342	7
Driftless Zone Contesters	83,212	5
L'anse Creuse ARC	81,564	5
Silver Comet Amateur Radio Society	76,794	4
Granite State ARA	54,972	4
Edmonds Woodway ARC	31,362	7
Maritime Contest Club	17,316	3
Southern Berkshire ARC	15,180	3
Portage County Amateur Radio Svc	9,212	3
Long Island Mobile ARC	4,192	4

The competition for the Medium club gavel is usually pretty close, with the top several clubs all submitting 40 to 50 logs. Mother Lode DX/Contest Club, centered near Sacramento, CA, won again this year, with SCCC coming in 2<sup>nd</sup>. Arizona Outlaws Contest Club moved way up from their 7<sup>th</sup>-place finish in 2019 to take third this time around.

#### **Local (≤10 entries, ≤35-mile radius)**

<b>Club</b>	<b>Score</b>	<b>Entries</b>
Pizza Lovers 259	1,541,736	10
New Mexico Big River Contesters	1,104,262	8
Redwood Empire DX Assn	974,744	10
Iowa DX and Contest Club	871,778	6
Radio Amateurs of Northern Vermont	537,194	4
Bristol (TN) ARC	289,878	6
West Park Radiops	216,564	4
Midland ARC	214,268	3
Jefferson ARC	157,272	3



The Villages Amateur Radio Club	125,106	6
Boeing Employees ARS - St. Louis	94,400	3
Metro DX Club	88,320	8
Central Michigan ARC	57,020	5
TX Emerg. Amateur Communicators	53,920	3
Hazel Park ARC	50,064	5
Meriden ARC	41,616	5
Stoned Monkey VHF ARC	40,714	4
Alexandria Radio Club	40,574	3
Bellbrook ARC	32,664	5
Woodmont ARA	32,424	5
Hilltop Transmitting Assn	24,964	3

In the Local category, Pizza Lovers 259 continued their winning ways, but the race was significantly closer this year; the New Mexico Big River Contesters came up with 8 logs, probably just 2 short of making it a real horse race. There were only 9 club entries in the Local category in 2019, but 21 in 2020 – a very healthy increase!

## Around the Categories

### Single-Op Unlimited, Low Power

K2DRH was the only op in the Top Ten to operate more than 23 hours, and one of only two with a clean sweep. Bob bested NT5V by 50 QSOs and won the SOULP competition despite a pretty shaky start:

*"I had everything all set to go the night before and spent a leisurely morning and afternoon without concern, when disaster struck about 10 minutes before the contest started and I was tending a clear spot on 20M. It was only a quick electric mains switching transient that killed power for maybe a second but that's sudden death to SDRs, computers and other microprocessor-based devices. OK quick reboot everything, reopen programs ... whew ... a couple minutes to spare and somebody else now in my 'spot' but disaster averted. Not quite. Green Heron controller showing Error counter over count. OK find the parameter list, go into the menu and reprogram the counter ... but no joy ... same error. Cold boot the box and it resets, but blew its brains out totally. Had to reprogram everything and recalibrate the tower. Now 4 minutes late and 20M is PACKED!! 15M not really cranking much so try and fit someplace LP with a tribander ... yeah, right! Struggled for the first three hours mostly low rate S&P as the long exchange dragged on with folks just getting their 'groove' on and B stations beating me out. Really frustrating! Note to self ... get a UPS!"*



Dick, W6TK, has a SteppIR for 40-10 outside this fine shack to help spread his signal far and wide. Phone and CW Sweepstakes are his favorite contests. (Photo courtesy of W6TK)

### Top Ten – Single-Op Unlimited, Low Power (SOULP)

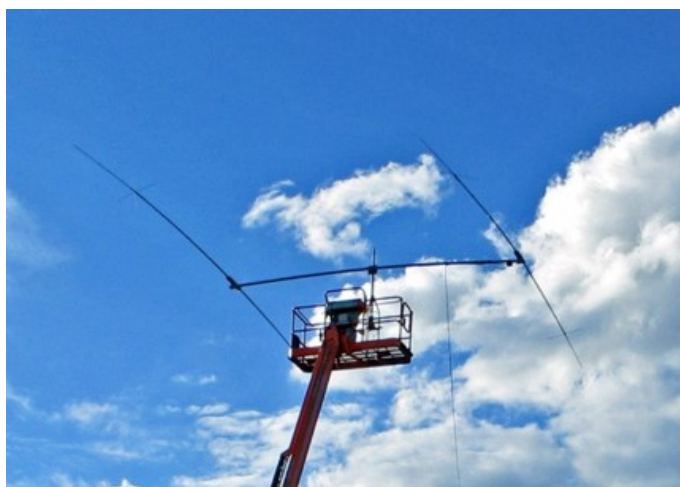
Call Sign	Score	QSOs	Mults	Sec	Hours
K2DRH	184,464	1098	84	IL	23.9
NT5V	176,064	1048	84	NTX	19.3
N4TP (W4LT, op)	144,088	868	83	WCF	17.6
NØHJZ	140,270	845	83	MN	18.3
KK7AC	135,880	860	79	AZ	22.7
N4ZZ	131,692	803	82	TN	10.3
W6TK	128,152	772	83	SB	13.8
VE3PJ	125,874	777	81	ONE	17.5
K3MD	116,532	702	83	EPA	21.5
N7MZW	110,292	707	78	WY	20.9



The simple-but-effective antennas at NØHJZ, 4th place in SOULP. Rich used a tribander at 25 feet and wires for the low bands in the 2020 SS, but he says that he's putting together a new station, including a new tower this summer. (Photo courtesy of NØHJZ)

## Single-Op, High Power

This was a high-scoring year in SOHP, even with only three Clean Sweeps among the top ten. K5TR bested his 2019 score by 15%, setting a new West Gulf division record, and scoring more points than any station outside the Caribbean has ever done, even without the benefit of the 84<sup>th</sup> mult. KW8N and W2RQ also set records in their divisions, and K4ZW's score was a new high for the VA section. These numbers are probably due to the significant increase in overall activity -- we all hope that trend continues. As with most of the categories, the action was split pretty evenly among geographic regions except the far north.



N4OX rented a lift to support a shorty-forty for the contest weekend. (Photo courtesy of N4OX)

### Top Ten – Single-Op, High Power (SOHP)

Call Sign	Score	QSOs	Mults	Sec	Hours
K5TR	383,128	2308	83	STX	24
W7WA	349,264	2104	83	WWA	23.9
K3LR (K3UA, op)	318,720	1920	83	WPA	24
K4ZW	306,264	1823	84	VA	24
W2RQ	303,744	1808	84	NNJ	23.9
KW8N	301,456	1816	83	OH	23.9
K5TA	295,812	1782	83	NM	24
K7RL	292,248	1782	82	WWA	24
N4OX	283,528	1708	83	NFL	23.9
WC6H	282,408	1681	84	SJV	23.8



K5TA's simple, inexpensive, and ultra-reliable antenna switching system. (K5TA photo)

## Single-Op, Low Power

So who is K6JO? This year's SOLP winner is not one of the familiar call signs that appear year after year in these results articles. A little Googling reveals that Levi Jefferies, born in 2000, with a check of 14, is one of a group of young testers intent on demonstrating that "Youth and Exuberance Can Beat Old Age and Treachery." [sic]. This is cool. It induces flashbacks to 1966 when I was 14 and newly licensed. It reminds me of late nights and Field Days at the University of Wisconsin club station W9YT. It brings back memories of ARRL CD parties, working a long-haired WA8YVR and just last year learning that he is actually N9RV.

From the website <https://teamexuberance.org> :

*Levi was licensed at age 14 as KK6NON, due to the generosity of his Elmer, W6MFJ. After learning the ropes at W6MFJ, Levi has become a frequent operator at the NX6T superstation in Southern California. Levi has been fortunate to operate outside of the US, most recently as ZF1A, with N6MJ and K6AM and crew in the CQWW SSB and ARRL DX SSB contests.*

Winning the most-popular SS category is a big deal. Doing it at age ~20 is a bigger deal. Good on you, Levi. Just enjoy it. We boomers are not the enemy. We've been exactly where you are now. We're not "treacherous," and we will match your exuberance tit-for-tat. Bring it on. Bring a friend.

Congratulations to WØEWD, N8II, and of course K6JO on setting new section records in the SOLP category.



### Top Ten – Single-Op, Low Power (SOLP)

Call Sign	Score	QSOs	Mults	Sec	Hours
K6JO	211,068	1287	82	SDG	23.7
WØEWD	210,276	1298	81	IA	23.9
N8II	203,524	1241	82	WV	20.4
VE4VT	201,920	1262	80	MB	23.8
W4AAA (KK9A, op)	198,912	1184	84	NC	24
N4OO	174,636	1078	81	GA	23.8
AF1T	155,358	959	81	NH	15.6
WD5K	153,218	923	83	NTX	22.1
KU2M	149,364	922	81	NNJ	18.4
ACØW	148,878	919	81	MN	18.8

### Top Ten – Single-Op, QRP (SOQRP)

Call Sign	Score	QSOs	Mults	Sec	Hours
WZ8P	56,544	372	76	OH	19.3
VE5MX	55,948	394	71	SK	9.6
NDØC	42,750	285	75	MN	13
KA8SMA	37,808	278	68	MI	19.4
N4TOL	33,288	228	73	GA	15.8
AC5O	25,568	188	68	LA	12.6
N5EE	24,822	197	63	AR	7.6
VE6EX	22,790	215	53	AB	4.4
KØTEA	22,066	187	59	MI	15.9
K9WZB	19,840	155	64	AZ	6.4



Ed, VE4EAR a/k/a VE4VT at his Winnipeg station -- #4 in SOLP (Photo from QRZ.com)

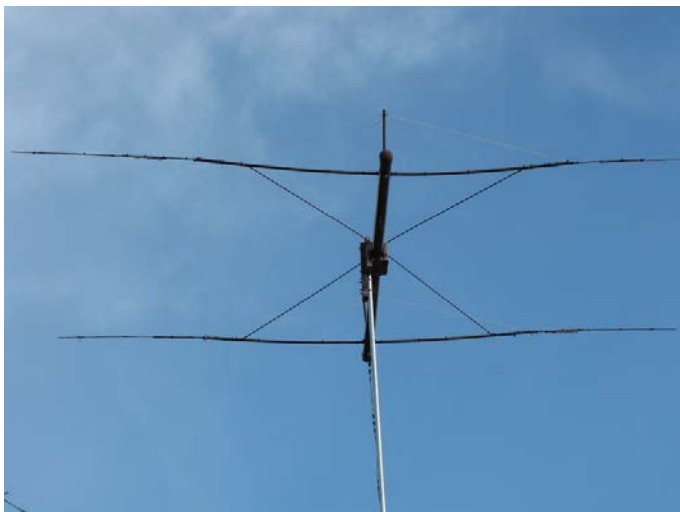


WZ8P's station and antennas. Having 3 separate 3L 40m yagis and 4 different 80m antennas from dipoles to 4L wire beams, sure helps the ERP situation when operating QRP! (Photos courtesy of WZ8P)

### Single-Op, QRP

Everett, WZ8P, our returning champion, successfully defended his title this year, but for some reason bucked the trend of higher scores compared to 2019, finishing down about 8%. His line score is surprising – 182 QSOs on 80 meters, 139 on 40 meters, and 51 on 20 meters. One would expect just the reverse from a typical QRP entry, but take a look at his photos and the reason becomes self-evident! VE5MX, knowing he was otherwise occupied most of Saturday, and goaded on by VE4VT, turned on the radio when he got free, cranked down the power, and then, as he put it, "...a bad thing happened, VY1CO heard me calling him...." He was hooked for about 10 hours' worth, came in 2<sup>nd</sup> and set a new SK section SOQRP record to boot!





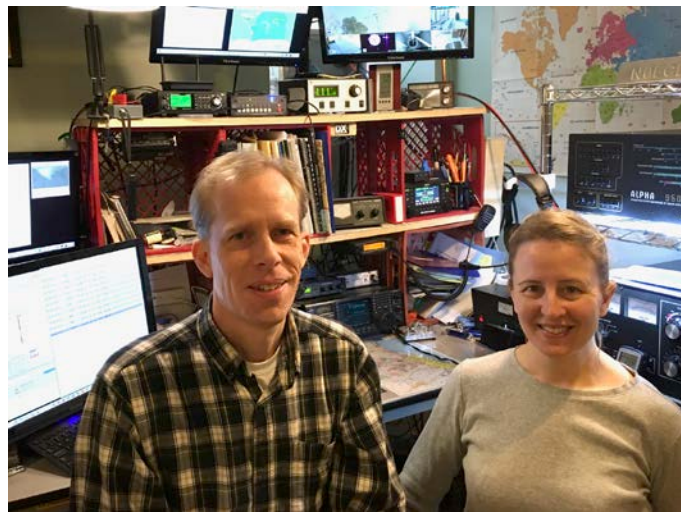
At the other end of the antenna continuum, KA8SMA used this homebrew 2L 20m yagi, made of PVC, fiberglass and wire, to capture 4<sup>th</sup> place in SOQRP. (Photo from KA8SMA's QRZ.com page)

## Multi-Op, Low Power

The ML category was one of two races in this year's phone SS that were seemingly decided by multipliers, not QSOs. The crew at WW4LL had 10 fewer Qs than NX6T, but LL's 2 extra mults more than made up the difference. Or, looking at it another way, NX6T operated less than 23 hours and needed only another 16 QSOs to pass WW4LL's score. Just sayin'. Either way, congratulations to both teams on the good results with remote operations.

### Top Ten – Multi-Op, Low Power (MSLP)

Call Sign	Score	QSOs	Mults	Sec	Hours
WW4LL	174,216	1037	84	GA	24
NX6T	171,708	1047	82	SDG	22.7
KØUK	158,364	954	83	CO	19.2
K9KE	122,634	757	81	IL	23
WX4W	102,222	631	81	KY	19.4
W4TG	91,798	581	79	VA	22.3
KØAJW	77,578	491	79	ND	21.3
N8YXR	74,844	486	77	MI	21.4
K5LRW	63,936	444	72	NM	15.7
W1FM	59,598	387	77	EMA	17.4



The husband-wife team of John and Jackie, K9KE and KC9KJE, 4<sup>th</sup> place in low-power multi-op. (Photo courtesy of K9KE)

## School Club Station

### “Masked operation for 2020”

That was the first line of W4AQL's 3830 posting. Was there always a masked emoji? The issue of COVID-19 greatly affected the operations of club stations and multis everywhere this year. Bob, WØBH, trustee of the KØHC club at Hesston College, the winner of the category, lamented on 3830:

*It was really disappointing to not have a Hesston College student Sweepstakes team this year, but safety took priority. I still wanted to put the School category on the air but going from having the students operate almost the entire contest to no students was a shock. One hour at a time!*

Many of the “regulars” returned to the fray this year, as well as a couple of newcomers, like W5YM (U of Arkansas) and W6BB (UC – Berkeley). NT6V, a professor at Berkeley, reports that they are beginning a station upgrade:

*We installed a K3 and a new shack computer as a starter. We hope to improve our antennas soon and add lowband capability in order to increase our activity. It was fun to test the new equipment in action and we will hopefully be able to have more substantial activities once we are allowed back in the shack with more than one person.*

Oh...there's that “one person” business again.

## Top Ten -- School Club Station (S)

Call Sign	Score	QSOs	Mults	Sec	Hours
KØHC	247,800	1475	84	KS	23.2
W4AQL	178,948	1078	83	GA	22.5
WØEEE	159,408	984	81	MO	23.2
NØUNL	148,678	941	79	NE	20.4
K7UAZ	45,816	332	69	AZ	17.2
KF5CRF	36,952	298	62	OK	7
K9IU	26,296	173	76	IN	13.2
W9JWC	22,304	164	68	IL	17.6
W6BB	5,320	70	38	EB	3.1
W5YM	1,750	35	25	AR	4.7

## Single-Op Unlimited, High Power

KØEU returned to phone SS for the first time since 2017, overcame some equipment problems during the contest, and ran away with the SOUHP plaque. Randy's nearly 2000 Qs and a sweep also netted him the 4<sup>th</sup>-highest score in any category in the contest.

K6LA also had to work through some hardware problems right at the start but managed to come through with his best-ever score from his home station and grab 5<sup>th</sup> place, breaking the LAX section record in the process.

Second and third-place finishers K5RT and K9CT both set new division records in this category.

In an interesting twist, KD4D (Mark) and W3IDT (Bob) both operated from W3LPL's mammoth station in Maryland. According to Mark:

*"Frank's M/M station has two operating positions per band, sharing an amplifier and antennas. Bob sat on the right side and I sat on the left side and only one of us was on a band at a time. Having to share the bands was a significantly larger compromise [compared to the CW weekend]. We mostly swapped between 40 and 80 and often one band would have a rate of 30 or even 40 QSOs per hour better than the other. We swapped bands about every hour or 90 minutes."*

Mark finished in 6<sup>th</sup> place, Bob was just outside the Top Ten, and Frank's station provided over 500k points to the PVRC club score on phone (and almost 400k on CW).

## Top Ten – Single-Op Unlimited, High Power (SOUHP)

Call Sign	Score	QSOs	Mults	Sec	Hours
KØEU	334,656	1992	84	CO	24
K5RT	309,120	1840	84	NTX	23.7
K9CT	299,464	1804	83	IL	24
K3MM	290,666	1751	83	MDC	24
K6LA	276,556	1666	83	LAX	23.9
KD4D	270,414	1629	83	MDC	24
W7RN					
(WX5S, op)	265,944	1583	84	NV	23.5
WBØTEV	257,376	1532	84	NTX	23.7
W1SJ	256,122	1581	81	VT	24
K2RD	242,858	1463	83	NV	18.8



This was a rough year for clubs of all sorts, school clubs included. Here's hoping that by next SS, we will again be able to enjoy the camaraderie of multioperator events! (K5TA photo)





K5RT, 2nd place in SOUHP with 309k points from his NTX station. Paul set new Division and Section records. And what's that wine? Red Truck! (Photo courtesy of K5RT)

## Multi-Op, High Power

Stations in this heavyweight category usually have big signals, internet connections to watch for multipliers that are spotted, and multiple operators to tune around looking for stuff, so it's a little surprising to see that only half of the stations in the Top Ten had a clean sweep. Just another sign of how tough it was this year. The southwest's new superstation, N6WIN, operated under the call sign ND7K and blew away the competition in the MSHP category by more than 100k points (and had the highest score of any station in any category). There were stations from coast to coast in the Top Ten, with half of them on the east coast – an unusual occurrence.

### Top Ten – Multi-Op, High Power (MSHP)

Call Sign	Score	QSOs	Mults	Sec	Hours
ND7K	401,184	2388	84	AZ	24
WØNO	299,298	1803	83	KS	24
N6WM	291,984	1738	84	EB	24
N2NT	287,180	1730	83	NNJ	24
NG3R	274,700	1675	82	DE	24
KRØP	263,384	1606	82	NE	24
W5RRR	244,776	1457	84	STX	24
N3OC	237,384	1413	84	MDC	23.1
WA1J	225,624	1343	84	WMA	24
W4NF	217,958	1313	83	VA	23.9



Tanner, W9TWJ, one of the operators at W5RRR, the club station at NASA's Johnson Space Center. The photo was taken right after he worked BC for the sweep (hence, the broom!). (Photo courtesy of John Maca, AB5SS)

## Single-Op Unlimited, QRP

Without any fanfare, the folks at HQ added this new operating category to Sweepstakes. Only two stations took advantage of it (or maybe they're the only two who noticed it!). Jim, NØUR, stepped outside of his usual SOQRP category and is now the record holder in SOUQRP.



Jim, NØUR, at the helm of his station. He describes it as a "pretty basic station, an IC 7300 to a Hex beam and assorted wires for the lower bands, in our 120-year-old farmhouse." (Photo courtesy of NØUR)



## Single-Op Unlimited, QRP (SOUQRP)

Call Sign	Score	QSOs	Mults	Sec	Hours
NØUR	33,232	248	67	MN	11.1
NO5V	9,300	93	50	STX	8.4

Division Winners, Regional Leaders, and plaque winners on the pages that follow, along with line scores, a searchable database, and log check reports on the ARRL's Contest website at <https://contests.arrl.org>

We hope you'll be active in the next Sweepstakes, the first full weekend in November for CW and the third full weekend for phone. Until then, 73.

## It's a Wrap!

That's all we have to say about the phone weekend of the 2020 November Sweepstakes. You can find tables of

### Regional Leaders

#### West Coast Region

(Pacific, Northwestern and Southwestern Divisions; Alberta, British Columbia and NT Sections)

W7WA	349,264	SOHP
K7RL	292,248	SOHP
WC6H	282,408	SOHP
K6MR	278,050	SOHP
K7RAT (N6TR, op)	260,658	SOHP
K6JO	211,068	SOLP
WB6POT	123,840	SOLP
WN6K	120,120	SOLP
K2PO	119,658	SOLP
KH6CJJ	89,984	SOLP
VE6EX	22,790	SOQRP
K9WZB	19,840	SOQRP
N7JI	19,380	SOQRP
K2GMY	17,898	SOQRP
WB6NJA	10,224	SOQRP
K6LA	276,556	SOUHP
W7RN (WX5S, op)	265,944	SOUHP
K2RD	242,858	SOUHP
K6TU	221,130	SOUHP
W1SRD	218,232	SOUHP
KK7AC	135,880	SOULP
W6TK	128,152	SOULP
WZ8T	81,312	SOULP
W7ZRC	54,880	SOULP
K6JS	48,818	SOULP

ND7K	401,184	MSHP
N6WM	291,984	MSHP
AB7BB	186,632	MSHP
W7EB	168,156	MSHP
K6TD	163,620	MSHP
NX6T	171,708	MSLP
AB7YQ	56,210	MSLP
N6ACL	20,212	MSLP
W9MPX	17,812	MSLP
K7UAZ	45,816	S
W6BB	5,320	S

#### Midwest Region

(Dakota, Midwest, Rocky Mountain and West Gulf Divisions; Manitoba and Saskatchewan Sections)

K5TR	383,128	SOHP
K5TA	295,812	SOHP
K5RX	229,320	SOHP
NJ8M	206,240	SOHP
AD5XD	172,200	SOHP
WØEWD	210,276	SOLP
VE4VT	201,920	SOLP
WD5K	153,218	SOLP
ACØW	148,878	SOLP
VE5SF	127,980	SOLP
VE5MX	55,948	SOQRP
NDØC	42,750	SOQRP
WC7S	16,836	SOQRP
KEØZ	11,988	SOQRP
K7DLX	11,520	SOQRP

KØEU	334,656	SOUHP	KA8SMA	37,808	SOQRP
K5RT	309,120	SOUHP	KØTEA	22,066	SOQRP
WBØTEV	257,376	SOUHP	K8ZT	4,488	SOQRP
N5RZ	237,216	SOUHP	W9VQ	2,856	SOQRP
K1KD	229,744	SOUHP	K9CT	299,464	SOUHP
NT5V	176,064	SOULP	ND4Y	234,890	SOUHP
NØHJZ	140,270	SOULP	AA9A	234,192	SOUHP
N7MZW	110,292	SOULP	WT9U	185,256	SOUHP
KØNEB	96,720	SOULP	VE3CX	174,798	SOUHP
KØFVF (KØTI, op)	80,800	SOULP	K2DRH	184,464	SOULP
NØUR	33,232	SOUQRP	VE3PJ	125,874	SOULP
NO5V	9,300	SOUQRP	W9QL	97,442	SOULP
WØNO	299,298	MSHP	W9AV	93,636	SOULP
KRØP	263,384	MSHP	VE3MGY	80,068	SOULP
W5RRR	244,776	MSHP	WD9CIR	164,000	MSHP
K2KR	90,080	MSHP	NV9L	154,160	MSHP
W5ACQ	84,056	MSHP	W9YK	84,238	MSHP
KØUK	158,364	MSLP	VE3UZ	55,748	MSHP
KØAJW	77,578	MSLP	K9NO	45,150	MSHP
K5LRW	63,936	MSLP	K9KE	122,634	MSLP
W5AFV	34,272	MSLP	WX4W	102,222	MSLP
KØUSA	22,378	MSLP	N8YXR	74,844	MSLP
KØHC	247,800	S	AA9BL	49,928	MSLP
WØEEE	159,408	S	AA9DL	48,822	MSLP
NØUNL	148,678	S	K9IU	26,296	S
KF5CRF	36,952	S	W9JWC	22,304	S

### Central Region

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

KW8N	301,456	SOHP
K9ZO	265,844	SOHP
W9RE	195,382	SOHP
VE3YT	185,328	SOHP
N8CWU	164,506	SOHP
VE3WRL	97,976	SOLP
N8BV	93,062	SOLP
K8NVR	82,000	SOLP
KD9MS	73,786	SOLP
N7ZZ	71,840	SOLP
WZ8P	56,544	SOQRP

### Southeast Region

(Delta, Roanoke and Southeastern  
Divisions)

K4ZW	306,264	SOHP
N4OX	283,528	SOHP
WØCN (@KA4RRU)	264,320	SOHP
KØEJ	225,500	SOHP
K4BAI	194,718	SOHP
N8II	203,524	SOLP
W4AAA (KK9A, op)	198,912	SOLP
N4OO	174,636	SOLP
WP3R	146,780	SOLP
WQ5L	135,722	SOLP
N4TOL	33,288	SOQRP
AC5O	25,568	SOQRP
N5EE	24,822	SOQRP

WR4I	12,876	SOQRP			
KJ4M	8,366	SOQRP			
K3DNE	239,276	SOUHP	AF1T	155,358	SOLP
K4OV	212,480	SOUHP	KU2M	149,364	SOLP
KC4NX	190,512	SOUHP	WR3R	137,268	SOLP
AB4EJ	170,586	SOUHP	N1DD	116,480	SOLP
N1LN	169,344	SOUHP	W1QK	112,914	SOLP
N4TP (W4LT, op)	144,088	SOULP	K2YG	9,660	SOQRP
N4ZZ	131,692	SOULP	K2AL	4,512	SOQRP
AA4NU	80,738	SOULP	W1MR	3,180	SOQRP
WT8WV	63,180	SOULP	KN3A	2,688	SOQRP
KN4SMO	52,592	SOULP	N2HTT	2,500	SOQRP
W4NF	217,958	MSHP	K3MM	290,666	SOUHP
W8AT	152,848	MSHP	KD4D	270,414	SOUHP
W5GAD	94,720	MSHP	W1SJ	256,122	SOUHP
W4MLB	91,482	MSHP	W3IDT	237,308	SOUHP
K4QQG	86,892	MSHP	AB3CX	225,594	SOUHP
WW4LL	174,216	MSLP	K3MD	116,532	SOULP
W4TG	91,798	MSLP	K1EP	100,440	SOULP
W4YK	48,910	MSLP	N3AAA	66,584	SOULP
KK4WDP	8,372	MSLP	N2SQW	58,618	SOULP
W4AQL	178,948	S	W2FDJ	39,812	SOULP
W5YM	1,750	S	N2NT	287,180	MSHP
<b>Northeast Region</b>			NG3R	274,700	MSHP
(New England, Hudson and Atlantic Divisions; Maritime and Quebec Sections)			N3OC	237,384	MSHP
K3LR (K3UA, op)	318,720	SOHP	WA1J	225,624	MSHP
W2RQ	303,744	SOHP	K3CCR	142,352	MSHP
K3ZO	193,280	SOHP	W1FM	59,598	MSLP
NC1CC (WA1BXY, op)	169,008	SOHP	K2APD	38,766	MSLP
K1AR	157,368	SOHP	K1CCN	22,528	MSLP
			KB2KDY	10,700	MSLP
			KB3MCL	8,360	MSLP

## Division Winners

### Single Operator, High Power

Atlantic	K3LR (K3UA, op)	318,720
Central	K9ZO	265,844
Dakota	WAØCSL	164,800
Delta	KØEJ	225,500
Great Lakes	KW8N	301,456
Hudson	W2RQ	303,744
Midwest	NJ8M	206,240
New England	NC1CC (WA1BXY, op)	169,008

Northwestern	W7WA	349,264
Pacific	WC6H	282,408
Roanoke	K4ZW	306,264
Rocky Mountain	K5TA	295,812
Southeastern	N4OX	283,528
Southwestern	N7GP	188,800
West Gulf	K5TR	383,128
Canada	VE3YT	185,328

### Single Operator, Low Power

Atlantic	WR3R	137,268
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Central	KD9MS	73,786
Dakota	ACØW	148,878
Delta	WQ5L	135,722
Great Lakes	N8BV	93,062
Hudson	KU2M	149,364
Midwest	WØEWD	210,276
New England	AF1T	155,358
Northwestern	K2PO	119,658
Pacific	WB6POT	123,840
Roanoke	N8II	203,524
Rocky Mountain	WA1FMM	27,216
Southeastern	N4OO	174,636
Southwestern	K6JO	211,068
West Gulf	WD5K	153,218
Canada	VE4VT	201,920

#### Single Operator, QRP

Atlantic	KN3A	2,688
Central	W9VQ	2,856
Dakota	NDØC	42,750
Delta	AC5O	25,568
Great Lakes	WZ8P	56,544
Hudson	K2YG	9,660
Midwest	W8MZ	9,632
New England	W1MR	3,180
Northwestern	N7JI	19,380
Pacific	K2GMY	17,898
Roanoke	WR4I	12,876
Rocky Mountain	WC7S	16,836
Southeastern	N4TOL	33,288
Southwestern	K9WZB	19,840
West Gulf	W5DPH	10,070
Canada	VE5MX	55,948

#### Single Operator Unlimited, High Power

Atlantic	K3MM	290,666
Central	K9CT	299,464
Dakota	K1KD	229,744
Delta	KC4NX	190,512
Great Lakes	ND4Y	234,890
Hudson	N2HMM	104,960
Midwest	NØIRM	190,568
New England	W1SJ	256,122
Northwestern	KA6BIM	176,956
Pacific	W7RN (WX5S, op)	265,944
Roanoke	K3DNE	239,276

Rocky Mountain	KØEU	334,656
Southeastern	AB4EJ	170,586
Southwestern	K6LA	276,556
West Gulf	K5RT	309,120
Canada	VE4GV	200,818

#### Single Operator Unlimited, Low Power

Atlantic	K3MD	116,532
Central	K2DRH	184,464
Dakota	NØHJZ	140,270
Delta	N4ZZ	131,692
Great Lakes	W8GX	57,600
Hudson	N2SQW	58,618
Midwest	KØNEB	96,720
New England	K1EP	100,440
Northwestern	WZ8T	81,312
Pacific	K6JS	48,818
Roanoke	WT8WV	63,180
Rocky Mountain	N7MZW	110,292
Southeastern	N4TP (W4LT, op)	144,088
Southwestern	KK7AC	135,880
West Gulf	NT5V	176,064
Canada	VE3PJ	125,874

#### Single Operator Unlimited, QRP

Dakota	NØUR	33,232
West Gulf	NO5V	9,300

#### Multioperator, Single Transmitter, High Power

Atlantic	NG3R	274,700
Central	WD9CIR	164,000
Dakota	KØHB	78,064
Delta	W5GAD	94,720
Great Lakes	KE8PUB	4,218
Hudson	N2NT	287,180
Midwest	WØNO	299,298
New England	WA1J	225,624
Northwestern	NK7J	142,352
Pacific	N6WM	291,984
Roanoke	W4NF	217,958
Rocky Mountain	K2KR	90,080
Southeastern	W4MLB	91,482
Southwestern	ND7K	401,184
West Gulf	W5RRR	244,776
Canada	VE3UZ	55,748

			Rocky Mountain	KØUK	158,364
			Southeastern	WW4LL	174,216
			Southwestern	NX6T	171,708
			West Gulf	W5AFV	34,272
<b>Multioperator, Single Transmitter, Low Power</b>					
Atlantic	K2APD	38,766			
Central	K9KE	122,634			
Dakota	KØAJW	77,578			
Great Lakes	WX4W	102,222			
Hudson	KB2KDY	10,700			
Midwest	KØUSA	22,378			
New England	W1FM	59,598			
Northwestern	W9MPX	17,812			
Pacific	N6ACL	20,212			
Roanoke	W4TG	91,798			
			<b>School Club</b>		
			Central	K9IU	26,296
			Delta	W5YM	1,750
			Midwest	KØHC	247,800
			Pacific	W6BB	5,320
			Southeastern	W4AQL	178,948
			Southwestern	K7UAZ	45,816
			West Gulf	KF5CRF	36,952

### ARRL Sweepstakes Phone- Sponsored Plaque Winners

Winner	Division	Category	Sponsor
K5TR	Overall	Single Operator High Power	Icom America
K6JO	Overall	Single Operator Low Power	Icom America
WZ8P	Overall	Single Operator QRP	Icom America
KØEU	Overall	Single Operator Unlimited High Power	Icom America
K2DRH	Overall	Single Operator Unlimited Low Power	Icom America
NØUR	Overall	Single Operator Unlimited QRP	Icom America
ND7K	Overall	Multioperator High Power	Icom America
WW4LL	Overall	Multioperator Low Power	Icom America
KØHC (WØBH, op)	Overall	School Club	Robert Tuttle, N8YXR & Jennie Tuttle, KCØRBV
K3LR (K3UA, OP)	Atlantic Division	Single Operator High Power	Icom America
WR3R	Atlantic Division	Single Operator Low Power	Potomac Valley Radio Club
KN3A	Atlantic Division	Single Operator QRP	Icom America
K3MM	Atlantic Division	Single Operator Unlimited High Power	Icom America
K3MD	Atlantic Division	Single Operator Unlimited Low Power	Icom America
NG3R	Atlantic Division	Multioperator High Power	Icom America
K2APD	Atlantic Division	Multioperator Low Power	Icom America
K9ZO	Central Division	Single Operator High Power	Society Of Midwest Contesters
KD9MS	Central Division	Single Operator Low Power	Society Of Midwest Contesters
W9VQ	Central Division	Single Operator QRP	Icom America
K9CT	Central Division	Single Operator Unlimited High Power	Society of Midwest Contesters
K2DRH	Central Division	Single Operator Unlimited Low Power	Society of Midwest Contesters
WD9CIR	Central Division	Multioperator High Power	Icom America
K9KE	Central Division	Multioperator Low Power	Icom America
K9IU	Central Division	School Club	Icom America
WAØCSL	Dakota Division	Single Operator High Power	Minnesota Wireless Association - In memory of Tod Olson, KØTO
ACØW	Dakota Division	Single Operator Low Power	Minnesota Wireless Association
NDØC	Dakota Division	Single Operator QRP	Icom America

K1KD	Dakota Division	Single Operator Unlimited High Power	Minnesota Wireless Association
NØHJZ	Dakota Division	Single Operator Unlimited Low Power	Minnesota Wireless Association
NØUR	Dakota Division	Single Operator Unlimited QRP	Icom America
KØHB	Dakota Division	Multioperator High Power	Icom America
KØAJW	Dakota Division	Multioperator Low Power	Icom America
KØEJ	Delta Division	Single Operator High Power	Icom America
WQ5L	Delta Division	Single Operator Low Power	Icom America
AC5O	Delta Division	Single Operator QRP	Icom America
KC4NX	Delta Division	Single Operator Unlimited High Power	Icom America
N4ZZ	Delta Division	Single Operator Unlimited Low Power	Icom America
W5GAD	Delta Division	Multioperator High Power	Icom America
W5YM (WJ5V, op)	Delta Division	School Club	Icom America
KW8N	Great Lakes Division	Single Operator High Power	Icom America
N8BV	Great Lakes Division	Single Operator Low Power	Icom America
WZ8P	Great Lakes Division	Single Operator QRP	Icom America
ND4Y	Great Lakes Division	Single Operator Unlimited High Power	Icom America
W8GX	Great Lakes Division	Single Operator Unlimited Low Power	Icom America
KE8PUB	Great Lakes Division	Multioperator High Power	Icom America
WX4W	Great Lakes Division	Multioperator Low Power	Icom America
W2RQ	Hudson Division	Single Operator High Power	Icom America
KU2M	Hudson Division	Single Operator Low Power	Icom America
K2YG	Hudson Division	Single Operator QRP	Icom America
N2HMM	Hudson Division	Single Operator Unlimited High Power	Icom America
N2SQW	Hudson Division	Single Operator Unlimited Low Power	Icom America
N2NT	Hudson Division	Multioperator High Power	Icom America
KB2KDY	Hudson Division	Multioperator Low Power	Icom America
NJ8M	Midwest Division	Single Operator High Power	Icom America
WØEWD	Midwest Division	Single Operator Low Power	Icom America
W8MZ	Midwest Division	Single Operator QRP	Icom America
NØIRM	Midwest Division	Single Operator Unlimited High Power	Icom America
KØNEB	Midwest Division	Single Operator Unlimited Low Power	Icom America
WØNO	Midwest Division	Multioperator High Power	Icom America
KØUSA	Midwest Division	Multioperator Low Power	Icom America
KØHC (WØBH, op)	Midwest Division	School Club	Icom America
NC1CC (WA1BXY, op)	New England Division	Single Operator High Power	Icom America
AF1T	New England Division	Single Operator Low Power	Icom America
W1MR	New England Division	Single Operator QRP	Icom America
W1SJ	New England Division	Single Operator Unlimited High Power	Icom America
K1EP	New England Division	Single Operator Unlimited Low Power	Icom America
WA1J	New England Division	Multioperator High Power	Icom America
W1FM	New England Division	Multioperator Low Power	Icom America
W7WA	Northwestern Division	Single Operator High Power	Icom America
K2PO	Northwestern Division	Single Operator Low Power	Icom America
N7JI	Northwestern Division	Single Operator QRP	Icom America
KA6BIM	Northwestern Division	Single Operator Unlimited High Power	Icom America
WZ8T	Northwestern Division	Single Operator Unlimited Low Power	Icom America



NK7J	Northwestern Division	Multioperator High Power	Icom America
W9MPX	Northwestern Division	Multioperator Low Power	Icom America
WC6H	Pacific Division	Single Operator High Power	Icom America
WB6POT	Pacific Division	Single Operator Low Power	Icom America
K2GMY	Pacific Division	Single Operator QRP	Icom America
W7RN (WX5S, op)	Pacific Division	Single Operator Unlimited High Power	Icom America
K6JS	Pacific Division	Single Operator Unlimited Low Power	Icom America
N6WM	Pacific Division	Multioperator High Power	Icom America
N6ACL	Pacific Division	Multioperator Low Power	Icom America
W6BB	Pacific Division	School Club	Icom America
K4ZW	Roanoke Division	Single Operator High Power	Icom America
N8II	Roanoke Division	Single Operator Low Power	Icom America
WR4I	Roanoke Division	Single Operator QRP	Icom America
K3DNE	Roanoke Division	Single Operator Unlimited High Power	Icom America
WT8WV	Roanoke Division	Single Operator Unlimited Low Power	Icom America
W4NF	Roanoke Division	Multioperator High Power	Icom America
W4TG	Roanoke Division	Multioperator Low Power	Icom America
K5TA	Rocky Mountain Division	Single Operator High Power	Icom America
WA1FMM	Rocky Mountain Division	Single Operator Low Power	Icom America
WC7S	Rocky Mountain Division	Single Operator QRP	Icom America
KØEU	Rocky Mountain Division	Single Operator Unlimited High Power	Icom America
N7MZW	Rocky Mountain Division	Single Operator Unlimited Low Power	Icom America
K2KR	Rocky Mountain Division	Multioperator High Power	Icom America
KØUK	Rocky Mountain Division	Multioperator Low Power	Icom America
N4OX	Southeastern Division	Single Operator High Power	Icom America
N4OO	Southeastern Division	Single Operator Low Power	Icom America
N4TOL	Southeastern Division	Single Operator QRP	Icom America
AB4EJ	Southeastern Division	Single Operator Unlimited High Power	Icom America
N4TP (W4LT, op)	Southeastern Division	Single Operator Unlimited Low Power	Icom America
W4MLB	Southeastern Division	Multioperator High Power	Icom America
WW4LL	Southeastern Division	Multioperator Low Power	Icom America
W4AQL	Southeastern Division	School Club	Icom America
N7GP	Southwestern Division	Single Operator High Power	Icom America
K6JO	Southwestern Division	Single Operator Low Power	Icom America
K9WZB	Southwestern Division	Single Operator QRP	Icom America
K6LA	Southwestern Division	Single Operator Unlimited High Power	Icom America
KK7AC	Southwestern Division	Single Operator Unlimited Low Power	Icom America
ND7K	Southwestern Division	Multioperator High Power	Icom America
NX6T	Southwestern Division	Multioperator Low Power	Icom America
K7UAZ	Southwestern Division	School Club	Icom America
K5TR	West Gulf Division	Single Operator High Power	Icom America
WD5K	West Gulf Division	Single Operator Low Power	Icom America
W5DPH	West Gulf Division	Single Operator QRP	Icom America
K5RT	West Gulf Division	Single Operator Unlimited High Power	Icom America
NT5V	West Gulf Division	Single Operator Unlimited Low Power	Icom America
NO5V	West Gulf Division	Single Operator Unlimited QRP	Icom America

W5RRR	West Gulf Division	Multioperator High Power	Icom America
W5AFV	West Gulf Division	Multioperator Low Power	Icom America
KF5CRF	West Gulf Division	School Club	Icom America
VE3YT	Canada	Single Operator High Power	Icom America
VE4VT	Canada	Single Operator Low Power	Icom America
VE5MX	Canada	Single Operator QRP	Icom America
VE4GV	Canada	Single Operator Unlimited High Power	Icom America
VE3PJ	Canada	Single Operator Unlimited Low Power	Icom America
VE3UZ	Canada	Multioperator High Power	Icom America