



160 Meter Contest 2016 Results

By Gary Breed, K9AY (k9ay@k9ay.com)

How close did you get to a Sweepstakes-style Clean Sweep?

1311 logs have been received, entered, and checked, and all eight entry categories have been scored for both US/VE and DX competitors. Take a look at the results tables to see if you and any of your friends made the Top Ten box. These are the operators who get bragging rights until next year!

Making a Clean Sweep

In this contest, the US/VE multipliers are the 83 ARRL/RAC Sections, as they are in the November Sweepstakes contests. Although there is no official recognition for working all of them (a “Clean Sweep”) in the 160 Meter Contest, it is still fun to try to work them all since it rarely happens.

This time, thanks to VE3JM, VE3KI, and VE4EA activating VY1AAA in the “remote” NT section via the Internet for 114 QSOs (more on this later), fifteen entrants completed the sweep! The K7CA multiop team even managed the feat using low power, and three single-operator stations got it done without spotting assistance.

Single-Operator, High Power
K1LT
W5MX
N8OO
Single-Operator Unlimited, High Power
KØRF
N2KW (@K1TTT)
WØAIH (KØTG opr.)
NN3W (@N3HBX)
K5NA
K9CT
VE6JY
Single-Operator Unlimited, Low Power
K7CA
Multioperator, High Power
NØNI
W2GD
NA7TB
K9NR (@WB9Z)

Stations working all 83 ARRL/RAC Sections

An Unlimited success

In the 2016 ARRL 160 Meter Contest, 44 percent of all submitted logs used spotting assistance, either choosing the Unlimited category or as Multioperator entries. There were four all-time Unlimited category records set this year — US/VE records at all three power levels, and a high power DX record. You can find the full list of section and country records at this link: www.arrl.org/contest-records

Assisted (includes SOU + MS)	580	44%
Non-assisted	731	56%
Total	1311	

Entries using spotting assistance

Many participants in 160 meter contests are not concerned with winning, but really enjoy the high activity as they add to their DXCC totals, work on WAS, or pursue other awards. Many others just want to experience a band they rarely operate. 160-meter activity is typically pretty quiet unless there is a special event like a contest or DXpedition, or a time when Mother Nature provides exceptional conditions that draw operators to the band. During these times, a spotting network can help you find and work more stations.

The Results

Of course, you can easily scan the Top Ten lists to see who the top scorers were in each category. There are some accomplishments worthy of note:

High Power Multioperator

The perennial powerhouse on the New Jersey shore, W2GD and friends, won again this year, but only by a small margin. Midwest stations at NØNI and WB9Z (using K9NR’s call) were within a few percent of the top score, and out west the team at NA7TB in Arizona did a terrific job to stay close and take the fourth spot!

Station	Score
W2GD	504,708
NØNI	483,588
K9NR	442,468
NA7TB	411,628
NR4M	398,895
N1LN	373,164
N2CEI	367,375
VE2OJ	258,752
N3EB	240,750
W4ML	239,820

Top Ten W/VE Multioperator High Power

The NA7TB station was built by long-time topbender Milt Jensen, N5IA. Milt died June 9, 2016 after falling from a tower despite his many years of experience working for a power company and a telecommunication company. The station, with its 8-circle 160-meter array of full-size ¼-wave verticals and eight two-wire Beverage receiving antennas, is now known as the Milt Jensen Memorial Station.

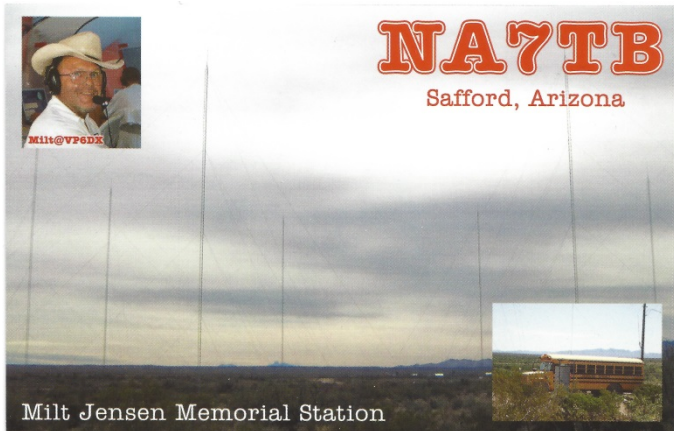


Photo courtesy Top Band Club of Arizona.

Single-op Unlimited

Among the Unlimited contestants, John, VE3EJ, made the top of the list, besting the second-best score by more than 10 percent. Out in the middle of continent, K5NA (STX), KVØQ (CO) and WØAIH (WI) showed that stations away from the East Coast can be competitive in this all-out maximum category.

Single-operator Unlimited		Single-Operator	
Station	Score	Station	Score
VE3EJ	481,144	K3ZM	532,092
KD4D	431,053	NO3M	485,364
K5NA	408,456	VY2ZM	443,256
NN3W (@N3HBX)	401,448	AA1K	430,375
VA2WA	378,322	K1LT	414,401
N2KW	373,504	WØSD (WØDB, op)	409,717
KVØQ	371,583	NØTT	375,921
K3WW	346,846	K1KI	370,148
WØAIH (KØTG, op)	332,843	N8OO	359,652
W3LL (ND3D, op)	332,508	W3BGN	332,367

Top Ten W/VE Single Operator High Power

Single-operator

The Single-op winner was Peter, K3ZM, who is always near the top. This year, he had a healthy lead over the rest of the pack. Like the Unlimited group, this category also had respectable representation away from the Eastern Time Zone, with WØSD (SD), NØTT (MO) and N8OO (LA) making it into the Top Ten.

Low Power Multioperator

The Multi-op, Low Power category has gotten good support since it was added to the mix in 2011. All low power categories are always well-represented by stations in the center of the continent.

Station	Score
K7TD	154,700
NA5NN	154,176
KM4FRM	103,680
KK6MC	95,004
VE9ML	74,418
WQ4RP	63,248
N8ZA	60,768
VE5ZX	42,624
W5WTM	36,792
W3KWH	28,662

Top Ten W/VE Multi-single, Low Power

This year, four of the top five are from the Mountain/Central Time Zones — #1 K7TD (CO), #2 NA5NN (MS), #3 KM4FRM (KY) and #4 KK6MC (NM) — as well as three more well away from the coast.

Single-operator Unlimited

Only two of the Top Ten Unlimited stations were located near the “advantageous” East Coast. The top three represent different advantages: Really big antennas — decisive winner Al, K7CA — and plenty of contest experience combined with good central locations and top-notch stations — #2 VE3MGY and #3 KØTI.

Single-Operator Unlimited		Single-Operator	
Station	Score	Station	Score
K7CA	244,316	WE9V	228,192
VE3MGY	178,002	K9IG	220,230
KØTI	167,320	K8FH	197,682
K8BL	159,014	K8NVR	186,964
K3MD	141,120	WB8JUI	171,720
AA5AM	137,547	WØUO	160,552
K1VR (K1EP, op)	118,736	K9MMS	156,165
N9CK	111,520	W2ID	155,820
KG7CW	104,835	NA8V	130,240
KIØI	104,232	ACØW	125,460

Top Ten W/VE Single-Operator Low Power

Single-operator

The unassisted Low Power list includes only one East Coast station, in 8th place. The winner is Midwesterner, Chad, WE9V who had the advantage of an extremely quiet rural Wisconsin QTH. Nine of the Top Ten are centrally located, from OH, MI, IN, TX, IL, MN.

QRP

Single-op Unlimited

Somehow, the terms “QRP” and “Unlimited” don’t seem to be compatible, but a sizeable handful of participants chose this as their operating category. At the top of the list is repeat winner, Glenn, WØGJ. Second place finisher N9SE was well ahead of the pack despite being far back from the leader.

Single-operator

Long-time QRP entrant, Mike, W3TS, earned the top spot from his EPA QTH, followed closely by KA1J in CT. The rest of the SOQRP Top Ten represent WI (2), AZ, NC, TX (3) and MN. That covers a lot of the continental U.S.

Single-Operator Unlimited		Single-Operator	
Station	Score	Station	Score
WØGJ	152,910	W3TS	76,568
N9SE	99,176	KA1J	72,562
N9LQ	68,250	K9TF	53,399
NK8Q	50,875	N7IR	51,825
N9TF	29,646	N3CZ	49,595
W1WBB	27,945	K9AY	40,158
WØMB	18,666	W5/MMØLID	35,721
W2DPT	16,121	WBØCFF	31,806
NØUR	15,600	N5OE	30,267
VE3YT	14,874	K5LG	27,104

Top Ten W/VE Single Operator QRP

DX Top Ten by Category

About 11% of the entries in this contest came from DX stations. This may seem low, but the structure of the contest requires that a W/VE station be at one end of every QSO. Many DX stations have limited ability to reach the target area, and since DX-to-DX QSOs don’t count, participation overseas is limited. Of course, their activity is very much appreciated by the W/VE operators!

Station	Score
High Power	
FS/K9EL	32,132
GW5R	17,992
JA3YBK	13,818
YO3GNF	2,184
RA4LW	1,444
RM4F	112
Low Power	
V31MA	29,040

Top Ten DX Multioperator

Single-Operator Unlimited		Single-Operator	
Station	Score	Station	Score
PJ2T (KB7Q, op)	153,600	ZF9CW (K5GO, op)	221,400
CW5W (CX6VM, op)	17,808	XE2X	156,168
DG1CMZ	14,364	PJ4/K4BAI	59,160
OK2W	11,160	CS2C	56,146
EA1DR	8,096	TM6M	35,014
G3UJE	7,954	XE2ST	19,656
DK2FG	7,832	PJ4/W4EF	16,952
OL1A (OK1CW, op)	7,740	PJ4/KU8E	12,384
UW2M (URØMC, op)	6,510	G4AMT	10,560
JH2FXK	6,068	PZ5RA	10,350

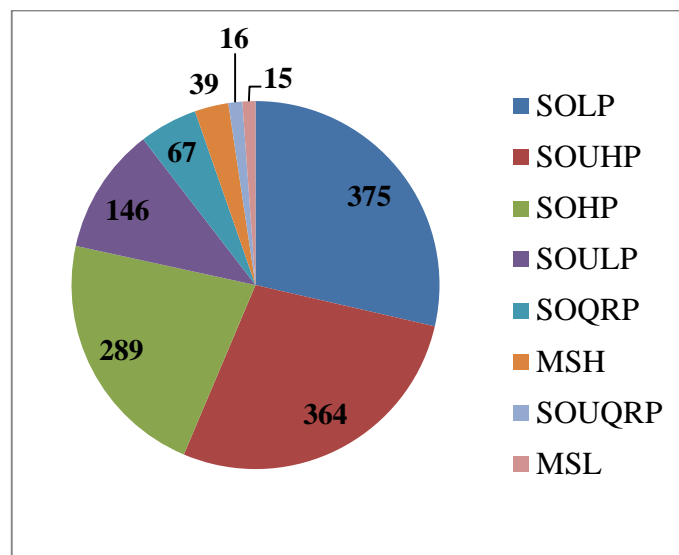
Top Ten DX Single Operator High Power

Single-Operator Unlimited, Low Power		Single-Operator Low Power	
Station	Score	Station	Score
VP5CW (W5CW, op)	59,396	4M1K	60,166
HC2AO	18,910	XE2S	59,052
HA4XH	3,100	HI3Y	18,550
CO8ZZ	2,100	ON7EH	1,820
LA5LJA	540	JE1SPY	780
DL3TU	264	JA1BJI	462
G3RLE	50	JA7KPI	396
PA2A	40	DJ9MH	264
DLØNG (DK8NC, op)	32	JN1MSO	192
OK6Y (OK2PTZ, op)	24	OL5Y	128
Single-Operator, QRP			
JH4UYB		2	

Top Ten DX Single Operator Low Power & QRP

Entries by Category

It's always interesting to see how many stations enter each category. This year, Single-operator, Low Power was the most popular, closely followed by Single-op Unlimited, High Power.



Entries by Category

About that VY1AAA Operation

Operators who have entered the 160 Meter contest competitively know that the most elusive section, and the one that usually prevents getting a Clean Sweep, is the 'NT' Section, which includes the Northwest Yukon, and Nunavut Territories, in Northern Canada. There are not many active HF operators in that area, but J Allen VY1JA is one.

A few years ago, several amateurs, including Gerry Hull, W1VE, embarked on a project to get J's station set up for remote operation over the Internet. The call sign VY1AAA is used for remote operations from the site.

Numerous successful operations have ensued. According to W1VE, J's Internet connection is a 15Mbps/1 Mbps DSL line from the phone company and is amazingly reliable.

In December 2016, Cary, VE4EA (from Winnipeg), and Rich, VE3KI (from Ottawa), were invited to go to Vlad, VE3JM's station, outside of Ottawa, for a Multi-single operation in the 160 Meter contest.

Cary has the RemoteRig box and K3/0 mini hardware to allow remote to VY1AAA. Cary decided to bring his gear with him, because both Rich and Vlad were very interested in learning about remote operation.

At the VY1AAA station end, one of the antennas J has been working on is the V-Beam. Its apex is at 70 feet

and, currently, the ends are only at 40 feet. However, the elements are 600 feet long.



View from apex of VY1AAA Vee Beam (Photo courtesy J Allen, VY1JA)

Low bands are amazingly quiet from the Yukon — Beverages optional. Because of the quiet, often you hear many people you cannot work.



VY1SLZ Working on the Vee Beam (Photo courtesy J Allen, VY1JA)

While Gerry was in a hotel room in Toronto, he helped the guys get through some network issues, but once that was done, they were up and running. For Vlad and Rich, it was their first remote operating experience.



Vlad VE3JM in the foreground (operating VY1AAA) and Rich VE3KI (operating the local station, VE3JM) in background. (Photo courtesy Cara Rubinfeld, VE4EA)

Club Competition

Winning gavels for their 2016 participation are: Potomac Valley Radio Club (Unlimited), Contest Club Ontario (Medium) and Central Virginia Contest Club (Local). The Unlimited clubs alone represent nearly 25 percent of the total number of submitted logs, plus a slightly larger total from the Medium and Local groups. Overall, half the entries had a club affiliation!

Affiliated Club Competition		
Club Name	Score	Entries
Unlimited Category		
Potomac Valley Radio Club	7,249,696	80
Frankford Radio Club	5,050,221	52
Society of Midwest Contesters	4,626,546	70
Yankee Clipper Contest Club	4,396,310	65
Minnesota Wireless Assn	3,361,152	51
Medium Category		
Contest Club Ontario	2,947,957	36
Mad River Radio Club	1,487,661	13
Florida Contest Group	1,455,034	21
North Coast Contesters	1,419,088	13
Arizona Outlaws Contest Club	1,330,777	23
Tennessee Contest Group	1,047,161	19
Grand Mesa Contesters of Colorado	711,048	6
DFW Contest Group	687,472	14
Central Texas DX and Contest Club	674,896	8

Northern California Contest Club	643,577	26
Kentucky Contest Group	633,614	9
Willamette Valley DX Club	593,519	13
Big Sky Contesters	501,279	6
Hudson Valley Contesters and DXers	488,764	9
Contest Group du Quebec	431,193	4
CTRI Contest Group	411,634	5
Alabama Contest Group	403,626	5
North Texas Contest Club	352,239	4
Carolina DX Association	287,654	5
Georgia Contest Group	279,404	7
Louisiana Contest Club	276,371	5
Western Washington DX Club	273,843	9
Southern California Contest Club	238,173	14
Rochester (NY) DX Assn	216,408	6
Orca DX and Contest Club	198,206	5
South East Contest Club	178,248	8
Mother Lode DX/Contest Club	142,815	4
Swamp Fox Contest Group	81,932	4
Radiosport Manitoba	77,558	3
Local Category		
Central Virginia Contest Club	500,489	5
Medina 2 Meter Group	482,160	4
Kansas City Contest Club	454,106	8
Niagara Frontier Radiosport	450,643	9
North Carolina DX and Contest Club	373,885	4
Delara Contest Team	335,466	5
Maritime Contest Club	136,442	4
Spokane DX Association	116,550	3
West Park Radiops	102,468	3

finding new participants as they show up, and digging out weaker stations that were unable to get your attention when the band was busy. Personally, I find the change in operating style as the contest proceeds to be quite interesting. Yes, it is frustrating at times. But it can be exhilarating when the band suddenly opens up at European sunrise or prime evening hours in Africa or South America. Or when that Pacific or Asian station calls you during that little bump in propagation at their sunset. Or simply when an unexpected new section multiplier goes into the log!

Wrap-Up

The 2016 ARRL 160 Meter Contest is history, and with the next solar cycle just beginning, the next 2-3 years have the potential to be a lot of fun for Top Band enthusiasts! Each year, the contest provides an incentive for improvements to the low band capabilities of many stations. And it serves as the excuse for a new group of hams to enjoy the unique experience of operating 160M with an extremely high activity level.

Be ready at 2200Z on December 1, 2017! The next ARRL 160 Meter Contest will again fill the band with competitive, but courteous operators looking for QSOs from all ARRL/RAC sections, and as many DXCC entities as possible!

This is a two-day contest!

After every 160 Meter contest, there is always some complaining about the slow rates and lack of excitement on the second day. Helloooo! This is an event that stretches out over two nights and the daytime between them. It is a single-band contest, so naturally the number of potential QSOs is mathematically reduced as the contest progresses.

In your author's opinion, the complainers just need to get over it and focus on the change in skill and effort that must be applied later in the contest. The challenge shifts from maintaining high rates to locating additional multipliers, working DX for their higher QSO points,

Division Winners

Division	Single-Operator, High Power	Single-Operator Unlimited, High Power
Atlantic	NO3M	KD4D
Central	W9RE	WØAIH (KØTG, op)
Dakota	WØSD (WØDB, op)	KØKX
Delta	N8OO	AD4EB
Great Lakes	K1LT	W8MJ
Hudson	N2GC	W2GDJ
Midwest	NØTT	WØTT
New England	K1KI	N2KW
Northwestern	WJ9B	KA6BIM
Pacific	N6NF	W7RN (W6UQZ, op)
Roanoke	K3ZM	K2AV
Rocky Mountain	K7IA	KVØQ
Southeastern	NP2X (K9VV, op)	K9OM
Southwestern	W6PH	N6SS
West Gulf	K5KC (W5TM, op)	K5NA
Canada	VY2ZM	VE3EJ
Division	Single-Operator, Low Power	Single Operator Unlimited, Low Power
Atlantic	NJ3K	K3MD
Central	WE9V	N9CK
Dakota	ACØW	KØTI
Delta	W4DAN	K3IE
Great Lakes	K8FH	K8BL
Hudson	W2ID	KA2D
Midwest	WAØBJR	KIØI
New England	W1QK	K1VR (K1EP, op)
Northwestern	K7QA	KG7CW
Pacific	N6RK	NU6O
Roanoke	N8II	N3UA
Rocky Mountain	WØETT	K7CA
Southeastern	WA1FCN	N4TOL
Southwestern	AC7A	NA2U
West Gulf	WØUO	AA5AM
Canada	VE3ZI	VE3MGY

Division	Single-Operator, QRP	Single-Operator Unlimited, QRP
Atlantic	W3TS	NK8Q
Central	K9TF	N9SE
Dakota	WBØCFF	NØUR
Delta	K5LG	-
Great Lakes	N8BB	K8ZT
Hudson	KQ2RP	W2DPT
Midwest	WTØA (KE5RX, op)	WØGJ
New England	KA1J	W1WBB
Northwestern	K6EI	-
Pacific	K6MI	K9YC
Roanoke	N3CZ	K1FR
Rocky Mountain	K9JWV	KIØII
Southeastern	AA4GA	-
Southwestern	N7IR	-
West Gulf	W5/MMØLID	-
Canada	VE3DQN	VE3YT

Division	Multioperator, High Power	Multioperator, Low Power
Atlantic	W2GD	W3KWH
Central	K9NR	KA9VVQ
Delta	KN5O	NA5NN
Great Lakes	AD8P	KM4FRM
Hudson	K2XT	
Midwest	NØNI	
New England	W1TJL	W1FM
Northwestern	N7IP	
Pacific	KH6LC	
Roanoke	NR4M	WQ4RP
Rocky Mountain	AA5B	K7TD
Southeastern	N2CEI	
Southwestern	NA7TB	
West Gulf	W5XD	W5WTM
Canada	VE2OJ	VE9ML

Soapbox and E-mail Comments

As I've done for several years, your author selected some comments from posts to the "3830" list, Soapbox comments submitted with the logs, notes from a couple club e-mail lists, and private e-mails. I've organized them by topic—I think this collection will give you some insight into the contest from different points of view.

In Memoriam—

Inaugural operation from the Milt Jensen (N5IA) memorial station located in Safford, AZ. The station consists of an 8-circle TX array and a system of 8 bi-directional beverages. It was a dream to use this station in this contest. —NA7TB (AA7A op), MSHP

Farewell to K8PO [SK 23 Oct 2016 – ed.]. I am really going to miss Paul. He outscored K3ZM on several occasions in different 160 meter contests from his splendid station in Maine. Paul was a complete gentleman and an honorable contester. What a loss. —K3ZM, SOHP

Operating Experiences—

Only planned to try hand out a few points. But got rather engrossed. Band was in great shape and very easy to get through at times. —W5/MMØLID, SOQRP

This is only my second or third time in the 160-M contest. The more times I work it, the better I like it. Just wish I had a decent antenna system for 160. —N5XE, SOLP

I did manage to silence the neighbor's dimmer switch, at least temporarily. Another neighbor, however, apparently turned on another noisemaker right at sunrise Saturday. Such is the lot of the urban contester. —K9MA, SOHP

Thanks for the QSOs! It was a fun contest. I've never heard so much constant activity on 160m. —K4AFE, SOUHP

First time in this contest - what a real hoot! The band was crowded from the bottom up to 1870. My second season on Topband and it continues to amaze. —W6SZN, SOHP

This is a personal best on 160 with limited hours Saturday night/Sunday morning. —N1DC, SOLP

Great fun! 100 Watts, Flex 6500/Maestro working beautifully. Had an amazing time with this one. Lots of fun ops, noise all night last night, but still had my best

160 effort ever. WAS in this contest alone! —AB5OR, SOULP

Highlight was having a JA call in at 1120Z. I have never been called by a JA on 160 in any contest. —N1UR, SOHP

Band Conditions—

Having lots of fun getting back into Contesting. Looks I need to resolve a few minor issues. Band conditions were pretty good throughout and especially with the band open on Saturday Afternoon. —VE3YF, SOLP

Conditions to EU seemed just fine both nights - and especially Northern Europe the second night - but not a whole lot of EU worked. —N3QE, SOUHP

My favorite contest of the year! Band conditions were good and quiet, and all equipment worked well. I didn't have as much chair time as I'd have liked, thanks to a busy honey-dew list that required my presence elsewhere, but the 9 hours I did have were productive with a few good runs. —W2IRT, SOHP

Station Descriptions—

I have no 160M antenna, only an 80-6M Carolina Window. On a whim, I decided to see how the K3 would tune it. The SWR was 3:1 or higher, but enough RF escaped into the ether to work 38 stations in 24 sections. —N4CF, SOLP

Remote operation of my MD station from S. FL. K9AY fixed on NE direction made an amazing difference with New England stations that were in the mud with my TX antenna (65' Tee), but S9 on the K9AY. —N3AM, SOUHP

Entered mostly to test receiving antennas. Friday night I had a flag only, as there was a broken feedline connection on the 3-element short vertical array. Saturday morning, I fixed the feedline and installed a 350 foot beverage to NE. Saturday night I used all three extensively. They are all keepers. —N3RD, SOUHP

This contest was the first real test of a years' worth of station and antenna improvements for 160 meters. I added a legal limit amplifier and a K9AY receiving loop as well as restrung the inverted L getting the horizontal leg up higher. The amplifier replaced my 500 watt amplifier and the K9AY loop replaced my Hi-Z vertical array. As a result I was able to hear better than ever before. I am also a little stronger on transmit. —N3HEE, SOUHP

In trying to maximize my small suburban lot for contesting, I've been using an Inverted L with an FCP counterpoise. I also laid out a relatively short BOG aimed at about 70 degrees and set the K3 in dual RX diversity. —NQ6N, SOUHP

K3/10 at 5 watts to a 260' inv vee up 50' at the center. Condx seemed good from MN, almost no QRN and big signals at times. Thanks for your great copy of my QRP sigs. Had a good time! —KEØTT, SOQRP

Visits from Murphy—

Had to spend most of the day Sat fixing beverages that were damaged from fallen limbs in the woods. Conditions seemed pretty good from here to EU but I don't believe a whole lot of stations were on from there. —W5MX, SOHP

For some reason I kept getting disconnected from packet spotting. Annoying when you're running assisted. Could be RF problem in PC router. —VE4GV, SOUHP

Eternal problem is AMTRAK and their RFI from the overhead power lines 100' away. Always some arcing but the majority of trains run right around Grayline. Must relocate... —KA1J, SOQRP

WAS and Section Sweeps—

The propagation gods smiled down on us and the participation level was impressive. It was a thrill to work a US/Canada clean sweep and so many country multipliers with 114 5-point Qs. —K9NR (@WB9Z), MSHP

I don't remember too many times ever getting a sweep in ARRL 160. That was a true highlight. Thanks to VY1AAA and VO1HP for getting on. —K9CT, SOUHP

Never thought I'd get a sweep on 160 and never thought my last section would be LAX. —NN3W (@N3HBX), SOUHP

VY1AAA called around 0514Z to finish my one and only 'clean sweep' of ARRL sections during an ARRL 160 test. —K1LT, SOHP

This has always been my favorite contest and this year is the 42nd year that I have participated and sent in a log. I was surprised that I managed a sweep of all the sections. I operated in the Unlimited category and it was helpful to have the DX cluster spots working for me. Every section called me except for the last two sections. Early Sunday morning I went out looking for VY1AAA and found him for a QSO and my 82th section. Then, a little later, I

started looking for VO1HP and got him for the last section. —K5NA, SOUHP

From the DX Side—

Remote operation from Berkeley, CA. The first night of the contest had much better conditions towards W0/7 but band closed early. Second morning lacked W7 condition and only very few Øs were logged, but band was open until about 20 min after sunrise. —DG1CMZ, SOUHP

Remote operating from Montana into the Signal Point station on Curacao. The first night was very good, but night two was a real slog with the constant tropical QRN. —PJ2T (KB7Q, op), SOUHP

Great night [Saturday]! Very nice conditions. Couldn't be on Friday night. Arrived at the station at 02 UTC, connected antennas in the dark, then scanned the band. Was nice to see so many stations, the band was quiet. —CW5W (CX6VM op), SOUHP

Ended 1st night with 200 qsos! Did 0 to 25 QSO (max per hour) second night! Crazy!! Best moment more than an hour after my SR be called by VE7, OR, MB! My worst score in this contest! But I love so far this crazy game! —TM6M (F1AKK), SOHP

Hard work, low cndx and small signals. but fun... —OU2V (OZ1FJB), SOUHP

First time from HP, using 37m long wire hanging out of window on 24th floor of apt. Interesting that loud stations would CQ in my face whereas barely readable guys would get my call correct the first time and complete the Q. —HP1XT, SOUHP

Conditions absolutely awful. Last year had twice as many contacts. —GW5R (GW3YDX op), MSHP

Regional Leaders

SOQRP/LP/HP = Single-Op; SOUQ/LP/HP = Single-Op Unlimited; MSL/MSH = Multioperator, Single Transmitter

West Coast Region			Midwest Region			Central Region			Southeast Region			Northeast Region		
Pacific, Northwestern, and Southwestern ARRL Divisions; Alberta; British Columbia, and NT RAC Sections			Dakota, Midwest, Rocky Mountain and West Gulf ARRL Divisions; Manitoba and Saskatchewan RAC Sections			Central and Great Lakes ARRL Divisions; Greater Toronto Area, Ontario East, Ontario North, and Ontario South RAC Sections			Delta, Roanoke, and Southeastern ARRL Divisions			New England, Hudson and Atlantic ARRL Divisions; Maritime and Quebec RAC Sections		
Call	Score	Cat	Call	Score	Cat	Call	Score	Cat	Call	Score	Cat	Call	Score	Cat
WJ9B	197,120	SOHP	WØSD (WØDB, op)	409,717	SOHP	K1LT	414,401	SOHP	K3ZM	532,092	SOHP	NO3M	485,364	SOHP
VE6BBP	151,745	SOHP	NØTT	375,921	SOHP	W5MX	278,160	SOHP	N8OO	359,652	SOHP	VY2ZM	443,256	SOHP
K7TJR	146,880	SOHP	K5KC (W5TM, op)	263,327	SOHP	VE3PN	223,500	SOHP	NP2X (K9VV, op)	313,344	SOHP	AA1K	430,375	SOHP
N9RV	143,028	SOHP	KØIDX	222,200	SOHP	W9RE	220,290	SOHP	WD5R (N5ECT, op)	256,944	SOHP	K1KI	370,148	SOHP
W7YAQ	117,900	SOHP	KØTT	206,998	SOHP	VE3CX	191,786	SOHP	WX4G	250,440	SOHP	W3BGN	332,367	SOHP
K7QA	110,241	SOLP	WØUO	160,552	SOLP	WE9V	228,192	SOLP	WA1FCN	111,760	SOLP	W2ID	155,820	SOLP
N6RK	83,448	SOLP	ACØW	125,460	SOLP	K9IG	220,230	SOLP	NP2J (K8RF, op)	110,772	SOLP	W1QK	100,793	SOLP
VE7SL	67,230	SOLP	KØPK	118,503	SOLP	K8FH	197,682	SOLP	N8II	94,960	SOLP	NJ3K	95,338	SOLP
AI7H	57,600	SOLP	WAØBJR	114,696	SOLP	K8NVR	186,964	SOLP	K4ORD	90,374	SOLP	K2ZR	90,667	SOLP
AC7A	51,750	SOLP	WØCGH	82,650	SOLP	WB8JUI	171,720	SOLP	W4DAN	81,863	SOLP	N3BUD	70,245	SOLP
N7IR	51,825	SOQ	W5/ MMØLID WBØCF	35,721	SOQ	K9TF	53,399	SOQ	N3CZ	49,595	SOQ	W3TS	76,568	SOQ
K6EI	19,482	SOQ	F	31,806	SOQ	K9AY	40,158	SOQ	K5LG	27,104	SOQ	KA1J	72,562	SOQ
K6MI	14,404	SOQ	N5OE	30,267	SOQ	W9CC	20,644	SOQ	AA4GA	23,426	SOQ	W1TW	15,980	SOQ
W6MZ	5,676	SOQ	WTØA (KE5RX, op)	23,912	SOQ	N8BB	18,894	SOQ	K3TW	21,780	SOQ	K2QO	15,252	SOQ
VE6EX	3,250	SOQ	K9JWV	3,248	SOQ	VE3DQN	12,814	SOQ	KI4FW	18,336	SOQ	KN1H	11,285	SOQ
N6SS	302,170	SOUHP	K5NA	408,456	SOUHP	VE3EJ	481,144	SOUHP	K2AV	326,337	SOUHP	KD4D	431,053	SOUHP
VE6JY (VE6WQ , op)	198,265	SOUHP	KVØQ	371,583	SOUHP	WØAIH (KØTG, op)	332,843	SOUHP	N4RV	239,568	SOUHP	NN3W (@N3HBX)	401,448	SOUHP
W7RN (W6UQZ , op)	174,988	SOUHP	KØRF	330,636	SOUHP	K9CT	318,325	SOUHP	K9OM	208,432	SOUHP	VA2WA	378,322	SOUHP
KA6BIM	163,709	SOUHP	K5ZO	216,090	SOUHP	W8MJ	294,591	SOUHP	N4HB	182,770	SOUHP	N2KW	373,504	SOUHP
K4XU	128,674	SOUHP	KØKX	195,471	SOUHP	VE3RZ	286,491	SOUHP	K4SO	176,637	SOUHP	K3WW	346,846	SOUHP
KG7CW	104,835	SOULP	K7CA	244,316	SOULP	VE3MGY	178,002	SOULP	N3UA	93,756	SOULP	K3MD	141,120	SOULP
VE7KW	60,000	SOULP	KØTI	167,320	SOULP	K8BL	159,014	SOULP	K3IE	92,400	SOULP	K1VR (K1EP, op)	118,736	SOULP
K7TM	48,057	SOULP	AA5AM	137,547	SOULP	N9CK	111,520	SOULP	AB5OR	87,399	SOULP	KE2D	79,281	SOULP
K7SS	39,639	SOULP	KIØI	104,232	SOULP	KK9V	88,530	SOULP	N4ZZ	74,763	SOULP	N1GN	65,775	SOULP
KN7K	24,957	SOULP	NØAT	94,350	SOULP	AB9YC	72,216	SOULP	N4ARO	53,428	SOULP	K1PTF	62,106	SOULP

K9YC	5,032	SOUQ	WØGJ	152,910	SOUQ	N9SE	99,176	SOUQ	K1FR	1,178	SOUQ	NK8Q	50,875	SOUQ
K2GMY	168	SOUQ	WØMB	18,666	SOUQ	N9LQ	68,250	SOUQ				W1WBB	27,945	SOUQ
			NØUR	15,600	SOUQ	N9TF	29,646	SOUQ				W2DPT	16,121	SOUQ
			KIØII	8,692	SOUQ	VE3YT	14,874	SOUQ						
			W5GZ	1,494	SOUQ	K8ZT	13,488	SOUQ						
NA7TB	411,628	MSHP	NØNI	483,588	MSHP	K9NR	442,468	MSHP	NR4M	398,895	MSHP	W2GD	504,708	MSHP
VE7NY	198,352	MSHP	AA5B	169,020	MSHP	VE3JM	176,978	MSHP	N1LN	373,164	MSHP	VE2OJ	258,752	MSHP
N7IP	181,722	MSHP	KØLIR	146,943	MSHP	VE3MIS	154,880	MSHP	N2CEI	367,375	MSHP	N3EB	240,750	MSHP
KH6LC	104,130	MSHP	W5XD	69,760	MSHP	AD8P	140,220	MSHP	W4ML	239,820	MSHP	K3MJW	226,085	MSHP
K6SAL	54,740	MSHP	W7DXX	29,238	MSHP	VE3FAS	49,815	MSHP	KN5O	216,247	MSHP	W1TJL	144,530	MSHP
			K7TD	154,700	MSLP	KM4FRM	103,680	MSLP	NA5NN	154,176	MSLP	VE9ML	74,418	MSLP
			KK6MC	95,004	MSLP	N8ZA	60,768	MSLP	WQ4RP	63,248	MSLP	W3KWH	28,662	MSLP
			VE5ZX	42,624	MSLP	KA9VVQ	24,592	MSLP				W1FM	16,842	MSLP
			W5WTM	36,792	MSLP	N9MT	9,534	MSLP						
			N5EM	20,634	MSLP									