2014 ARRL November CW Sweepstakes Results

Tube gear, clean copy, and team efforts all played a role in CW Sweeps.

Kelly Taylor, VE4XT, ve4xt@mymts.net

Sweepstakes continues to be a popular contest, with 1300 operators submitting logs recording their efforts on November 1 - 3, and countless others who made QSOs without sending in an entry. The reasons for operating are as varied as the operators.

If you think contesting is all about operating costly superstations with robot-like efficiency and no distractions, don't tell that to Dan, VE6EX; Jim, N2EY, or John, AD8J.

Winning – A Hollow State of Mind

It's not too often a homemade, tube-based rig factors into any category victory, but such were VE6EX's magical 24 hours of Sweepstakes. Dan normally operates a Kenwood TS-690, but for 2014 he also fired up his fourtube "foxhunt" transmitter with a 5763 final and a homebrew VFO to add some hollowstate operation in a category that's almost exclusively solid state these days.

Dan made contacts with a combination of TS-690 and Two Tube Tuna Tin (**www.qsl. net/wd8das/T5pix.html**) rigs to win the QRP category of 2014 Sweepstakes from Calgary, Alberta. When fishing for contacts, a Drake R-4C handled receive duties. His 847 contacts and 81 sections handed him the QRP category and a Canadian QRP record.

Dan said the Two Tube Tuna Tin made all of his 80 and 40 meter contacts, about 96 in total. (The Tuna Tin name comes from a design by the legendary Doug DeMaw, W1FB (SK) in the May 1976 issue of *QST*.) The rest of the station is similarly modest, with a threeelement trapped tribander and wire dipoles on the lower bands all crammed into a city lot.

Across the continent in Eastern Pennsylvania, Jim, N2EY, used homebrew equipment exclusively for his 450 QSOs and 80 sections. Jim calls his 100 percent vacuum-tube rig a Southgate Type 7, built in the 1990s to replace his former rig, also homebrew, called the Southgate Type 6.

The Type 7 is a 100 W CW transceiver for



Top Ten				
Single Operat High Power	tor,	Single Operator Unlimited, Low Power		
N9RV	232,898	AA4NC	174,134	
W7RN (N6TV, op)	224,930	KB7Q K5CM	169,904	
N2IC	213,974	N9CO	157,950 155,472	
N2NT	,	K8BL	155,044	
(N2NC, op)	212,148	KY4F	153,176	
NR5M	010 156	N5DO W1UJ	150,388	
(K5GA, op) W9RE	210,156 207,952	N2MM	147,420 142,024	
K6LA	206,172	KØNE	139,072	
N4OGW	205,674			
AA3B	201,556	Multioperator	,	
WXØB (AD5Q, op)	200,528	High Power W6YI	001 000	
(/1200, 00)	200,020	WØSD	231,238	
Single Operat	tor,	KØRF	217,128	
Low Power		KL7RA	223,104 217,128 214,804	
K4RO	184,758	W5RU	209,326	
K7BG K2PO	180,110 177,454	W2FU W4RM	207,832	
KP2RUM	177,101	ABØS	186,750	
(N4BP, op)	176,300	N4GI	181,604	
NÁØN		KY7M	171,708	
(@WØZT) NP3A	165,240 164,492	Multioperator		
NØAT	104,492	Low Power	,	
(NØKK, op)	162,324	VE4DR	155,308	
K4XU	161,186	NX6T	151,724	
KØAD	159,900	NØUR	147,928	
N8SS	159,572	W8TK K9MOT	143,092	
Single Operat	tor, QRP	KEØL	106,758 87,248	
VE6EX	137,214	W6K	73,224	
KE3X		N3FJP	71,176	
(@N4RV)	132,348	KA9VVQ N9MT	46,576	
KØAV NØAX	123,820 119,884	NEIVII	45,122	
NIRR		School Club		
(@K1TTT)	111,132	W6RFU		
NŠEE NN7SS	106,764	(AC6T, op)	176,126	
(K6UFO, op)	105 786	KØHC (WØBH, op)	175,628	
KØOU	101,898	W4UAL	83,830	
N7IR	101,412	W8EDU		
W7YAQ	99,220	(W8WTS, op) 32,390	
Single Operat	tor	K4KDJ N5XU	27,900	
Unlimited, Hig	gh Power	(AA5BT, op)	27,876	
K1ZZ	211,724	W8SH	17,710	
K9CT	201,026	W1AF		
K6LL KTØA	200,362	(W1PL, op)	5,200	
W6YX	194,054			
(N7MH op)	186,086			
W1SRD	184,592			
N4ZZ KH7XX	182,434			
(KH6SH, op)	182.434			
K6SRZ	176,628			
WØZA	176,464			

80, 40, and 20 meters. It is a model of frugality, assembled from parts found at hamfests and spirited out of old television sets, as well as World War II surplus components. It uses a 12-tube single-conversion receiver and parts from a modified BC-221 frequency meter for tuning. For transmitting, the rig uses a 12BY7 to drive a pair of 807s.

His antenna is an 80/40 trap dipole (homebrew, of course) in inverted-V configuration with the apex at about 40 feet. He says it also works well on 20, evidenced by the 180 20 meter QSOs in his log. Like Dan, Jim's station is on an average-sized city lot.

"The first key challenge to operating homebrew gear in Sweepstakes is coming up with a suitable design for a rig, particularly if you want to use tubes, run more than QRP power, and build the thing out of available parts and without a shop full of fancy tools and test equipment," Jim says. "Suitable designs just don't exist in amateur publications. There are plenty of designs for hollowstate receivers and transmitters using tubes, but when you want a 100-watt bandswitching CW transceiver it's drawing-board time."

"The second key challenge in operating homebrew gear in Sweepstakes is that band-changing is a little more complicated. However, once you are used to the rig, 30 seconds is more than enough time to change bands."

Jim upgraded to computer logging in 2007, mainly to eliminate manual dupe-checking, and recently added a keying interface. Between his rig, scrounged computer parts, and keying interface, Jim's costs were about \$120. "If, someday, using homebrew gear became impractical for me, I might go to 'modern' gear, but I don't see that happening any time soon," Jim said. Instead, Jim's already looking forward to building a Southgate Type 8.

Sponsored Plaque Winners

ARRL is pleased to award a Sweepstakes plaque to the Overall and Division Leaders in each entry category, thanks to Icom America and numerous clubs and individuals who sponsor these awards. For more information on plaque sponsorship or to order a duplicate plaque, contact ARRL Contest Branch Manager Matt Wilhelm, W1MSW, at 860-594-0232 or w1msw@arrl.org. Plaques cost \$75, which includes all shipping charges.

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Branch Manager Matt Wilhelm, W1MSW,	at 860-594-023	2 or w1msw@arrl.org . Plaq	ues cost \$75, which includes all shipping ch	arges.	SPONSOR
Division/Plaque Category Overall Winners	Winner	Plaque Sponsor	Division/Plaque Category New England	Winner	Plaque Sponsor
Single Operator High Power CW Single Operator Low Power CW	N9RV K4RO	Trey Garlough, N5KO Radiosport Manitoba — VE4VV Memorial	Single Operator High Power CW Single Operator Low Power CW	K5ZD K1XM	Mark Olsen, KF1V Michael McKaughan, K1DM
Single Operator QRP CW	VE6EX	QRP Amateur Radio Club	Single Operator QRP CW	N1RR (@K1TTT)	
Single Operator Unlimited High Power CW	K1ZZ	International Joe KH6GA &	Single Operator Unlimited High Power CW Single Operator Unlimited Low Power CW	K1ZZ W1UJ	Mark Olsen, KF1V Mark Olsen, KF1V
Single Operator Unlimited Low Power CW Multioperator High Power CW Multioperator Low Power CW School Club CW	AA4NC W6YI VE4DR W6RFU (AC6T, op)	Victoria N4WV Icom America Icom America Icom America Straight Key Contest Club	Multioperator High Power CW Multioperator Low Power CW School Club CW	K1LZ No Entrant W1AF (W1PL, op)	Icom America Mark Olsen, KF1V Icom America Icom America
Multioperator Low Power CW	VE4DR W6RFU	Icom America Straight Key Contest	Multioperator Low Power CW School Club CW Northwestern Single Operator Unlimited High Power CW Single Operator Unlimited High Power CW Single Operator Unlimited High Power CW Multioperator Low Power CW School Club CW Pacific Single Operator High Power CW Single Operator Unlimited Low Power CW Single Operator CMP CW Single Operator Unlimited Low Power CW Multioperator Low Power CW Single Operator Unlimited High Power CW School Club CW Roanoke Single Operator Unlimited High Power CW Single Operator Low Power CW Single Operator Unlimited High Power CW Single Operator Low Power CW Single Operator High Power CW Multioperator Low Power CW Single Operator Unlimited High Power CW Multioperator Low Power CW Single Operator Unlimited High Power CW Single Operator Unlimited High Power CW Single Operator Unlimited High Power CW Single Operator High Power CW Single Operator High Power CW Single Operator High Power CW Single Operator Low Power CW Single Operator High Power CW Single Operator Low Pow	W1AF	
			Single Operator Unlimited High Power CW Single Operator Unlimited Low Power CW Multioperator High Power CW Multioperator Low Power CW School Club CW	VE3CX VE3MGY VE3MIS VE4DR No Entrant	Icom America Icom America Icom America Icom America Icom America

Regional Leaders

Boxes list call sign, score, and class (Q = QRP, A = Low Power, B = High Power, U = Single Operator Unlimited, High Power; UL = Single Operator Unlimited, Low Power; M = Multioperator, High Power; ML = Multioperator, Low Power; S = School Club)

OL - Single Operator (Jiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	, Low I ower, I		perator, ri	ight ower, me	- manope	
Northeast Region (New England, Hudsor Atlantic Divisions; Mar and Quebec Sections)	Southeast Region (Delta, Roanoke, and Southeastern Divisions)			Central Region (Central and Great Lakes Divisions; Ontario East, Ontario North, Ontario South, and Greater Toronto A			
N2NT (N2NC, op) 212,148 AA3B 201,556 KD4D 180,892 K5ZD 175,480 K02RD 173,016 WY3A 152,056 W2LK 142,024 K3AJ 141,598 K1XM 137,596 K3UA 135,464 N1RR (@K1TTT) 111,132 K8CN 84,132 W1QK 81,120 K2QO 76,314 NA1CC 63,358 K1ZZ 211,724 N3RR 172,856 K11G 170,814 AB3CX 165,502 W13Z 164,430 W1UJ 147,420 N2MM 142,024 NT2A 121,688 W02L 113,324 N3HEE 111,684 W2FU 207,832 K3CCR 72,738 K1LZ 72,504 AB2DE 2,516 N3FJP 71,176 N2ASD 25,488 W1AF (W1PL, op) 5,200	BBBBBAAAAA QQQQQUUUUUUUUUUUMMMMMM S	N4OGW N4AF K4BAI NX4N KØLUZ K4RO KP2RUM (N4BP, op) NP3A KU8E N4PN KE3X (@N4RV) N5EE WF7T K3TW K4QPL N4ZZ N1LN K4QPL N4ZZ N1LN K4QPL N4ZZ N1LN K4QPL N4ZZ N1LN K4QPL N4ZZ N4DW N1TO AA4NC KY4F WD4AHZ N4UW W4MPS W5RU W4RM N4GI N4FX W4ZYT KG4W W4TG W4FA	205,674 198,276 181,602 179,778 177,122 184,758 176,300 164,492 151,700 148,404 132,348 106,764 89,262 88,724 85,374 85,374 182,434 161,352 153,052 153,052 153,052 153,052 135,9566 135,9566 135,9566 135,9566 135,9566 135,9566 135,9566 135,9566 15	BBBBA AAAA QQQQUUUUUUUUUUUUMMMMMLLLL	and Greater T W9RE K1LT AA9A (NQ6N, op) W5MX W19WI N8SS W1NN AJ9C W8CAR KV8Q VE3KI K78K VE3VN K9UY K9XZ K9CT VE3CX NE9U K9NR K8AZ (K8NZ, op) N9CO K8BL K9NR K8AZ (K8NZ, op) N9CO K8BL K9WX K89S VE3MIS W9YK K89V VE3MIS W9YK K89V K89VT K80DT K80DT K80DT K80DT K80DT K80DT K80DT K80DT K80DT K80VQ N9MT N9GTC		BBBBAAAAAQQQQUUUUUUUUUUUUUUUUUUUUUUUUUU
		W4UAL K4KDJ	83,830 27,900	S S	W8EDU (W8WTS, op W8SH	o) 32,390 17,710	S S

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	Midwest Re	gion		West Coast Reg	gion		
۱,	(Dakota, Midwest, Rocky Mountain, and West Gulf Divisions; Manitoba and Saskatchewan Sections)			(Pacific, Northwestern, and Southwestern Divisions; Alberta, British Columbia, and NWT Sections)			
	N2IC NR5M	213,974	B	N9RV W7RN	232,898	В	
	(K5GA, op) WXØB	210,156	В	(N6TV, op) K6LA	224,930 206,172	B B	
	(AD5Q, op) N5RZ	200,528 199,532	B B	K6XX VE7SZ	199,752	В	
	K5TR (K5OT, op)	198,536	В	(KL7SB, op) K7BG	191,398 180,110	B A	
	NÀØN	165,240	A	K2PO K4XU	177,454 161,186	Â	
	(@WØZT) NØAT			AA6PW	149,400	Â	
	(NØKK, op) KØAD	162,324 159,900	A A	W9CF (@K8IA)	148,912	A	
	W8FN NØAC	147,928 144,180	A A	VE6EX NN7SS	137,214	Q	
	KØAV NØAX	123,820 119,884	Q Q	(K6UFO, op) N7IR	105,786 101,412	Q Q	
	KØOU KØPC	101,898 97,686	Q Q	W7YAQ W6JTI	99,220 94,770	Q Q	
	KEØZ KTØA	73,470 194,054	Q U	K6LL W6YX	200,362	U	
	WØZA NØXR	176,464 170,724	U U	(N7MH, op) W1SRD	186,086 184,592	U U	
	K5RT N5ZC	165,502 164,838	U U	KH7XX (KH6SH, op)	182,434	U	
	K5CM N5DO	157,950 150,388	UL UL	K6SRZ KB7Q	176,628 169,904	U UL	
	KØNE K1KD	139,072 121,920	UL UL	W7ZRC N6EE	131,528 111,848	UL UL	
	NM5M WØSD	121,196 223,104	ÚL M	K9JM K07AA	110,224 99,548	ÚL UL	
	KØRF ABØS	217,128 186,750	M M	W6YI KL7RA	231,238 214,804	M	
	NY6C KØHB	151,470 144,088	M	KY7M K6MMM	171,708 161,850	M	
	VE4DR NØUR	155,308 147,928	ML ML	K6LRG NX6T	125,132 151,724	M ML	
	N5PJ KK5OV	41,120	ML	W8TK W6K	143,092 73,224	ML	
	K7EMR KØHC	416	ML	W6RFU (AC6T, op)	176,126	S	
	(WØBH, op) N5XU	175,628	S	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	170,120	C	
	(AA5BT, op)	27,876	S				

The Thrill of the Chase

If John, AD8J, decides to enter a contest requiring a name in the exchange, he might want to choose Sylvester - as in Sylvester the Cat. "I was operating and I saw a movement out of the corner of my eye," John said of his effort in Sweepstakes. "It was a mouse running across the carpet in the shack." Sufferin' succotash - talk about breaking up a run!

"I hated to lose my run frequency but this couldn't wait. I grabbed the towel I use to rest my arm on, yelled for my wife, and took off after that bad boy. I was able to take him outside and release him. That was almost as much fun as working rare ND." When John wasn't chasing rodents, he was racking up a respectable 723 contacts in 81 sections in A category from his North Carolina station.

A Little Too Much Excitement

Ever been operating and had your computer logging system go south? You probably thought, "I bet this doesn't happen to the winners." You'd lose that bet. "Well, I didn't find



Jim, N2EY, used this all-homebrew station to make 450 contacts in 80 sections in the A category. Built as two separate units working together as a transceiver, the receiver is on the table and the transmitter is on the shelf.

it humorous, but it would have been to someone else watching," said Low Power (A) category winner Kirk, K4RO. "This was my first serious attempt with NIMM Plus. After a few minutes and nine OSOs, it became apparent that the second radio function keys were not working. After short panic, I had to stop the contest and start over again (at serial No. 1) with N1MM Classic. Those were some exciting moments at the start."

Kirk likes Sweepstakes for a few reasons; it rewards perseverance, the work-only-once rule means operators don't need a superstation to win, and the determined operator has a legitimate chance at working all the available multipliers. "The techniques for A power are different than QRP. For starters, it is much easier to hold a run frequency. The skills acquired during 10 years of QRP SS were still very helpful using A power. No matter which category, you have to try to work every station possible to succeed in SS," Kirk writes.

Kirk is a determined SO2R (single operator, two-radio) operator, but he admits splitting



Kirk, K4RO, finished atop the Low Power (A) category this year after being the top dog of QRP in past years. Kirk credits his win from Tennessee to 10 years of operating at QRP levels during Sweepstakes. [Photo courtesy of Kirk Pickering, K4RO]

concentration hurts his accuracy. "I am pretty adamant about pushing the second radio hard, and that has its pluses and minuses. On the plus side, I wind up with more QSOs. On the minus side, my error rate increases as I try to split my concentration between two audio streams."

Pat, N9RV, won the High Power (B) category, but not without some serious concerns about conditions from his northern QTH in Montana. "Got a great start on 10 and 15 [and] had high hopes. Conditions were great on 40, but I couldn't get anything going [and I] was beginning to think that this would be another year back in the pack." As expected, he was in a battle with both Bob, N6TV, at W7RN in Nevada and Steve, N2IC, in New Mexico.

Pat reminds us that Sweepstakes requires stamina and not becoming discouraged as the one-QSO-per-station results in a slow pace on Sunday. "Sunday Sweepstakes is like a long car ride with a bunch of people where you've all told every story you know and there are still hours left to go," he said. Pat's storytelling abilities held up, allowing him to finish ahead of W7RN and N2IC by 9000 and 19,000 points, respectively.

Accuracy Takes the Prize

Another category with a clear-cut case of accuracy winning the day is Unlimited, Low Power (UL). Will, AA4NC, who has in the past used a club call (W4MR) but has always played at home, is the winner here. Thanks to his Clean Sweep, he was already winning before log checking, but KB7Q's extra 30 QSOs meant that had Gene only matched Will's accuracy, he'd have won by about 2000 points.

It's Will's first time to win, after finishing in the top three and top five in the past. He attributes part of this to a recent focus on copying correctly. "It is interesting that this win basically came down to more accuracy," he said. "Since the accuracy numbers have been published in recent years, I have been interested in comparing my numbers with others that I'm competing against and trying to consciously improve my accuracy.

"My recipe for increased accuracy has simply been to not let the quest for rate stop me for asking for a fill or repeat. In prior years, I was more hesitant to slow down and ask when I wasn't sure because I was overly focused on rate. In contests with complex exchanges such as Sweepstakes, accuracy has to be your focus."

Similarly in Unlimited, High Power (UH), Dave, K1ZZ, was winning this category going into log checking but, consider that Dave missed a section compared to secondplace operator Craig, K9CT, who scored a sweep. If you transpose their error rates, Craig would have won.

Still, Dave is humble in victory. "The only advice I can offer about accuracy is to copy what is sent and to ask for a repeat if you're not sure. Sweepstakes victory margins are so tight and Sunday afternoons are so slow, that it makes no sense to sacrifice accuracy for rate when so many logs are available for cross-checking."

Good Friends and a Good Score

For multioperator stations, the contest is about the camaraderie of coming together on a common goal. The Multioperator, High Power (MH) winning team at W6YI took 2013 off, but wanted to resume their winning streak. Jim, W6YI, had a stellar crew lined up. "This time, three of us were veterans of WRTC2014. WRTC champ Dan, N6MJ, had to miss all day Sunday but really smoked on Saturday. John, K6AM, was the glue to keep us on track as we all had some missing time due to other commitments. John's partner, David, N6AN, kept us running on Saturday. Marko, N5ZO, helped us on Sunday and kept our rate up while Dennis, N6KI, was our night relief." Another winning streak, coming right up!

For Multioperator, Low Power (ML) winner VE4DR, the goal was a reunion of operators from as far away as British Columbia, Montana, and the Toronto, Ontario area. It's been a while since a VE4 was at the top of the national record charts, so installing themselves as a new Canadian record holder felt especially good. That they did it surrounded by a treasure trove of Amateur Radio history, operating from the station at the Manitoba Amateur Radio Museum in Austin, Manitoba, about 85 miles west of Winnipeg, made it that much more special.

Eric, VA7DZ, said the group was initially motivated to operate from Manitoba due to the then-rarity of the section. "It's still relatively rare, although much less so recently with the formation of Radiosport Manitoba," Eric said. (Full disclosure: the author is a founding member.) "By operating at the Manitoba Amateur Radio Museum, we were able to support and attract a little more publicity for this wonderful national museum on such a scenic and attractive site. It helped that the weather was warm and sunny!"

The operation brought together Eric; Fred, KE7X; Vic, VE3YT; Bill, VE3BXI, and Chet, VE3CFK. They used the museum's tribander at 50 feet and brought and assembled a 40 meter four-square to improve their 7 MHz numbers.

Big Ham on Campus

The tiniest category in Sweepstakes is usually home to the epic battle between Stanford and Hesston: the big-name university versus the small but proud faith-based community college. While the battle may still have been epic, it didn't involve Stanford (W6YX) this year. Bob, WØBH, who has often piloted Hesston's KØHC to the top, was on track to take the title again, but playing spoiler this time was Steve, AC6T, operating at the University of California Santa Barbara station, W6RFU.

Like most such battles, this one came right down to the wire. Past it, actually, as Bob won in raw scores, but it was Steve who prevailed once the log-checking was complete. "I was so surprised I ended up in first place," Steve said. "KØHC was well ahead in QSOs. Also, I assumed W6YX [Stanford] would enter in the S category. If that was the case, we were toast." As it turned out, W6YX entered the Unlimited, High Power category and W6RFU grabbed the top spot.

On Your Marks, Get Set, Sweep!

None of the overall records fell and scores were down almost across the board, but the 2014 CW Sweepstakes still managed to write some compelling stories, including 102 Clean Sweeps of all 83 sections. The 2015 contest runs from November 7 through the 9. However (and whatever) you choose to operate, have fun and log a story of your own!