

Results, 1994 ARRL January VHF Sweepstakes

It was a hot contest for a cold weekend!—Steven, WA1EYF

By Billy Lunt, KR1R, and Warren C. Stankiewicz, NF1J
Contest Manager Assistant Contest Manager

The popularity of the January VHF Sweepstakes is growing! There are many newcomers to Amateur Radio finding out about contesting, and that's exciting for everyone. The number of entries has risen 20% since the codeless Technician license was introduced in February 1991. This phenomenon has helped bring scores up dramatically, with two new overall records and 31 new Divisional records broken this year alone.

A big change in this contest has been the dramatic increase in the use of FM. Operators who tuned into the FM frequencies found a lot of people to work. This is also a great way to meet local hams and introduce them to what you're doing. As Leonard, WA6KLK, puts it, "This was the first time we used FM to make contacts in the contest. Boy, it sure helps, especially when working the locals, and it was a lot of fun." Don't overlook this mode when planning your strat-

egy! There are a lot of hams in your area whose only experience with VHF operating has been with their FM hand-held transceivers. Most of these people aren't likely to try weak-signal operating without incentives. Besides, as a lot of people will tell you, it's fun!

The record-breaking winter that hit the East Coast raised havoc with the best-laid plans of many hams. It was an incentive to stay inside and operate, instead of venturing outdoors. Others found frozen rotators, ice-loaded beams and miscellaneous equipment failures the order of the day. Some people are overcome by the weather and others overcome the weather! Rich, K3MQH, and crew set a new record in the Limited

Multioperator category. He notes, "At our site we had four feet of snow, frostbite and multiple weather-related antenna failures, but we still had a good time."

Another hardy group were the amateurs who took to the road as rovers. ARRL HQ heard lots of praise, telling how rover activity helped many people post good scores. As Floyd, WQ5S, comments, "I know I won't be the only one to say thanks to the rovers. The contest would have been boring without them!" In areas where the ham population is smaller, roving can help pick up your score. Denise, AJ0E (with help from Tom, K0TLM), overcame a broken radiator cap at the start of the contest, and activated 12 grids. Al, WB5LUA, and Bryan, N5QGH,

Top 10 Scores

Single Operator		Single Operator, QRP Portable		Limited Multioperator		Multioperator		Rover	
Call Sign	Score	Call Sign	Score	Call Sign	Score	Call Sign	Score	Call Sign	Score
WA2TEO	244,120	NM1K	25,758	K3MQH	213,142	N2WK	451,577	N0HJZ	278,698
KA1ZE	222,720	WA4ALJ	6,510	W3ZZ	176,256	W1NY	292,572	WA2MOP	167,076
WA8WZG	210,015	NO0Y	6,477	N2CEI	155,067	W0RSJ	131,852	WB9AJZ	112,068
K1RZ	196,350	KB6MEG	5,772	N2DSY	103,269	AA5C	127,820	AJ0E	108,578
WA3NUF	163,170	AA7QZ	4,650	WB2ELB	66,364	W3IP	89,208	KE9QT	105,336
WZ1V	160,016	WX3P	1,947	W1QK	65,254	WQ5S	72,288	WB5LUA	96,844
W0UC	124,950	K2DB	784	N8TLZ	59,432	N3EXA	56,848	N5QGH	92,110
N9MKC	106,080	KA2CKI	672	N0SGL	52,496	WB0GGM	54,808	N0LRJ	53,352
K1TR	104,790	KI7NC	504	KU8Y	41,814	WB2PSI	54,485	NC7K	52,700
N1DPM	104,325	N2DGI	204	KB2AYU	34,968	N3ITT	52,768	KA1TBS	48,472



Dan, WB2WHD, takes a break with his mascot in the refreshing -70° wind chill after working on his 1296-MHz antennas 70 feet up.



We thought they only did this at the airports! Jack, N3DQZ, deices his antennas before the start of the contest.

QSO Leaders By Band

Single Operator

50 MHz	144 MHz	222 MHz	432 MHz	902 MHz	1296 MHz	2304 MHz	3456 MHz
WA2TEO 239	VE3RKK 432	KA1ZE 93	KA1ZE 167	WA3AXV 44	WA4VHF 57	WA3AXV 26	WA3AXV 13
NY1E 234	K1EIC 428	WA3AXV 93	WA3AXV 155	WB2YEH 39	WA3AXV 54	N2SB 18	WB2YEH 10
WZ1V 201	KA1ZE 425	WA2TEO 87	WA2TEO 149	WA2TEO 35	WA2TEO 52	WA3NUF 18	WA3NUF 10
N9MKC 182	WA2TEO 377	K1TR 85	K1FO 133	WB3JYO 35	KA1ZE 48	WA2LTM 16	N2SB 9
W3EP/1 166	WB2QOQ 375	WA3NUF 80	K1RZ 129	WA2ONK 35	WA2LTM 47	WB3JYO 16	N1DPM 7
W1WHL 156	WS1C 356	WB2YEH 76	WB3KRW 119	KA1ZE 34	K1RZ 47	W3KKN 16	WB3DNI 7
K1TR 154	K1RZ 356	WB3KRW 75	K1TR 117	WA3NUF 33	W1RIL 46	WB2YEH 15	N3AOG 6
WA1YHO 152	N2NEP 331	N3FUJ 72	WZ1V 111	WB3DNI 33	WA8WZG 43	WB3DNI 14	KA1ZE 5
K1RZ 150	WA8MZQ 322	WA8WZG 72	WA8MZQ 108	KB3IB 31	N1DPM 42	WA3JUF 14	W1RIL 5
W0UC 149	N9MKC 310	N1DPM 69	WA8WZG 106	N1DPM 29	N2IQU 41	AK3O 13	WA2BAH 5
KA1ZE 143	WZ1V 295	WB3JYO 68	WA3NUF 104	N2SB 29	WA3NUF 41	WA8WZG 13	KA2MCU 5
W2HRW 142	W3FUJ 287	K1RZ 65	WA2ONK 99	K1RZ 27	WB2YEH 39	WA0BWE 13	WA2LTM 5
N3DQZ 142	KD1DU 280	N2SB 63	N3FUJ 99	WZ1V 26	N2SB 39	WA2OMY 12	KB3XG 5
WZ8D 136	N2IQU 267	WZ1V 61	WB2YEH 93	AK3O 26	WZ1V 38	N3AOG 12	WA1MBA 4
K1EM 129	W8ULC 266	K3IUV 61	WA2TIF 90	N3AOG 26	WB3JYO 37	K0FQA 12	KB2HQ 4
			WA0BWE 90		WA2ONK 37		WB3JYO 4
							WA2OMY 4

Multioperator

50 MHz	144 MHz	222 MHz	432 MHz	902 MHz	1296 MHz	2304 MHz	3456 MHz
W1NY 256	K3MQH -L 628	N2CEI -L 119	W1NY 231	N2WK 46	W1NY 56	N2WK 25	N2WK 15
N2CEI -L 249	N2DSY -L 597	W1NY 115	K3MQH -L 222	W1NY 33	N2WK 41	AA5C 20	AA5C 12
K3MQH -L 235	W3ZZ -L 523	N2WK 110	N2WK 179	W0RSJ 21	W0RSJ 35	W1NY 11	W05S 9
W3ZZ -L 217	N2CEI -L 476	K3MQH -L 97	W3ZZ -L 170	AA5C 21	KB2AYU -L 31	W0RSJ 11	W1NY 5
N2WK 190	N2WK 421	N2EVS -L 74	N2DSY -L 144	WQ5S 20	W3IP 34	W05S 10	W0RSJ 2
WB2IEY 182	W1NY 374	N2DSY -L 72	N2CEI -L 129	N3EXA 16	AA5C 29	WB2PSI 7	WB2IEY 1
W0RSJ 174	W1QK -L 370	W3ZZ -L 72	N2EVS -L 127	W3IP 13	WQ5S 28	W3IP 1	
N2DSY -L 158	W0RSJ 302	WB2ELB -L 70	N3ITT 114	K3EOD 12	N3ADC -L 26		
W1QK -L 152	W3IP 289	N3EXA 69	WB2ELB -L 103	WB2PSI 10	N3ITT 23		
W3HZU -L 134	WB2ELB -L 262	W0RSJ 66	W1QK -L 93	N3ITT 9	WB0GGM 22		
KU8Y -L 134	N1KKM -L 258	W1QK -L 59	WB2IEY 92	WB3LNZ 6	N3EXA 21		
KA2PFL -L 118	KB2AYU -L 248	K3EOD 52	KB2AYU -L 90	NR1L -L 4	WB2PSI 16		
WA7KYM -L 111	N3ITT 241	W3IP 49	N3EXA 90	WB2IEY 1	N0SGL -L 16		
KA1EKR -L 100	WB4NFS -L 241	W6TRW 49	N3ADC -L 89		K3EOD 14		
WB2ELB -L 98	N3ADC -L 227	N3ITT 45	W3IP 83		W6TRW 13		

-L denotes Limited Multioperator

Multiplier Leaders by Band

Single Operator

50 MHz	144 MHz	222 MHz	432 MHz	902 MHz	1296 MHz	2304 MHz	3456 MHz
NY1E 67	WA8MZQ 77	WA8WZG 28	WA8MZQ 49	WA8WZG 17	WA8WZG 18	WA0BWE 10	N1DPM 4
W0UC 62	W8ULC 66	K1RZ 26	WA8WZG 36	K1RZ 14	N0LL 18	K0FQA 10	KA1ZE 3
WA2TEO 60	KE8FD 62	NW3C 26	K4QIF 34	WA2TEO 13	N2IQU 17	WA8WZG 9	W1RIL 3
WZ8D 60	WR0Q 60	KE8FD 26	KE8FD 34	KA1ZE 12	K1RZ 17	WA3AXV 8	WA2LTM 3
N9MKC 55	AA8BC 59	KB0ZQ 22	K1FO 33	W1RIL 12	WA4VHF 16	WA2LTM 6	WA3NUF 3
N0LL 52	VE3RKK 56	WA2TEO 21	NW3C 32	N1DPM 11	W0UC 15	W2HPF 6	WA3AXV 3
WZ1V 50	N9MKC 55	W0UC 21	K1RZ 31	WZ1V 10	WA0BWE 14	KA1ZE 4	WA2OMY 3
K4TO 50	AA8Q 54	W8ULC 20	WZ8D 31	WB2YEH 10	WA2TEO 13	N1DPM 4	K1CPJ 2
WA8QNR 48	KB8BKS 54	N0LL 20	KC4YO 27	W2HPF 10	WZ1V 13	W1RIL 4	WB1FKF 2
NW3C 47	WZ8D 53	WA3NUF 19	W8ULC 27	WA3NUF 10	N1DPM 13	WB3JYO 4	NA1W 2
WA1YHO 43	KB8NNE 51	N4HB 19	N9MKC 27	WA3AXV 10	W1RIL 13	N2SB 4	WA1MBA 2
KE8FD 43	NW3C 50	WZ8D 19	WA2TEO 26	N2LIV 9	WA3AXV 13	N2ODK 4	WB2YEH 2
W3EP/1 41	WA8WZG 49	N9MKC 19	W0UC 26	WA2ONK 9	WB0CLL 13	WA3NUF 4	WB3JYO 2
KA1ZE 40	K1RZ 46	WA0BWE 19	N0LL 26	WB3JYO 8	WA2LTM 12	WA3JUF 4	N2SB 2
VE9AA 39	K4TO 45	KA1ZE 18	KB8BKS 25	KB3IB 8	WA0NTT 12	WA4VHF 4	W2HPF 2
		K9OYD/4 18	KB0ZQ 25	N3NGE 8	K0FQA 12		WB3DNI 2
				N4HB 8			WA3JUF 2
							N3AOG 2

Multioperator

50 MHz	144 MHz	222 MHz	432 MHz	902 MHz	1296 MHz	2304 MHz	3456 MHz
W1NY 55	N0SGL -L 64	N2WK 28	N0SGL -L 38	N2WK 17	W1NY 13	N2WK 9	N2WK 6
WA7KYM -L 51	N8TLZ -L 51	N2CEI -L 23	N2WK 35	W1NY 11	N2WK 13	AA5C 7	AA5C 5
N2WK 48	N2WK 50	K3MQH -L 23	K3MQH -L 34	W0RSJ 8	WB0GGM 13	WB2PSI 5	W05S 4
N2CEI -L 44	K3MQH -L 48	W3ZZ -L 23	W3ZZ -L 31	AA5C 8	KB2AYU -L 11	W05S 5	W1NY 3
W3ZZ -L 43	W3ZZ -L 47	N8TLZ -L 20	N8TLZ -L 28	WQ5S 7	W0RSJ 11	W1NY 4	W0RSJ 2
KU8Y -L 41	WB2ELB -L 38	W1NY 19	W1NY 27	W3IP 5	N0SGL -L 11	W0RSJ 4	WB2IEY 1
WB9CEP -L 38	N2CEI -L 37	WB0GGM 17	N2CEI -L 23	WB2PSI 4	W3IP 9	W3IP 1	
K3MQH -L 37	KE2PM -L 36	WB2ELB -L 16	WB0GGM 22	N3EXA 4	AA5C 8		
N8TLZ -L 37	W2OW -L 36	W0RSJ 16	KB2AYU -L 21	NR1L -L 2	WQ5S 8		
WB0GGM 36	WB0GGM 36	W3IP 16	W3IP 21	K3EOD 2	N3ADC -L 7		
W3HZU -L 27	N2DSY -L 35	WB2IEY 15	WB2PSI 20	WB2IEY 1	WB2PSI 5		
KA1EKR -L 26	K0DAS -L 35	N3EXA 15	K0DAS -L 20	N3ITT 1	N3ITT 5		
WB2IEY 26	KU8Y -L 34	WB4NFS -L 15	WB2IEY 17	WB3LNZ 1	W3HZU -L 5		
N2DSY -L 26	W0RSJ 32	AA9AO 14	W0RSJ 17		AA9AO 5		
W0RSJ 26	WB4NFS -L 32	W1QK -L 13	KU8Y -L 17		KA2PFL -L 4		
K1LL -L 26			AA9AO 17		N3EXA 4		
					W6TRW 4		
					WD0GNK 4		

-L denotes Limited Multioperator

operated on 10 bands from 7 grids, helping scores in the North Texas area considerably. For the story of the top rover, Rich, N0HJZ, check the sidebar, "Confessions of a Prairie Rover." Thanks to all who ventured out into the elements in the name of VHF contesting and a good time.

In the northern latitudes, most contestants hope for aurora to enhance propagation. Unfortunately, there was none this Sweepstakes. For the first time in recent memory, we were blessed with good E-skip openings this year, with the best opening on

Sunday night. If you took a pizza break at any of these times, you're probably sorry now! Alan, N4VC, remarks, "I found the E skip to be the best ever in a January contest!" Whether you caught the openings or not is probably a determining factor in your multiplier count.

Where was the band open? When was the band open? There was an opening on 6 meters Saturday night from the Midwest into Colorado and Wyoming, and N0SGL worked several West Coast stations. Sunday afternoon was good to people in the

central and midwestern US, with contacts made from as far west as New Mexico to as far east as Ohio. The band was open briefly, at about 1345Z Sunday, from New England to Alabama and Wisconsin. Some hams reported working tropo on the higher bands during the day Sunday, notably in Kansas and Iowa. The real fireworks started at about 2300Z Sunday night, however, with a big opening from the Midwest to the East Coast for about an hour. That was another example of why the contest isn't over until it's over!

The Affiliated Club Competition remains popular in this contest, with 35 clubs participating. In the unlimited category, the Mt Airy VHF RC (better known to mere mortals as the Pack Rats) put forth a strong effort to win the gavel this year, after missing it last year. Could this be a return to its former dominance in club competition? Our congratulations to newcomers the North East Weak Signal Group, which won the Medium Category with a score just below that of the Pack Rats, and to the Bergen ARA, winners in the Local Category. We commend the outstanding job the Rochester, Minnesota, ARC, did in turning out for this year's contest. It takes a lot of work and enthusiasm to get members to operate in the contest and turn in logs. Having enough entries to qualify for the Unlimited Category is even more impressive.

This year marks the first listing of regional leaders for each class in this contest. As we've stated before, this is in response to those of you who wished to see more local recognition for your efforts. This certainly gives a better picture of what the competition is like outside the "corridor" on the East Coast. We're also now listing the scores by Division, so that you'll have a better idea of how you fared among stations in your area. Band winners, however, are still tallied by Sections.

We'd like to thank Contest Assistant Anne Jaworski for her help in preparing these results. The rules and dates for the 1995 January VHF Sweepstakes will be in December 1994 *QST*; start planning now!

SOAPBOX

I got so interested and busy during the contest that I forgot to put wood in the stove. It was nice to be back in the groove after five years and I found the operating courtesy during the contest excellent! (K8ZES). Neither freezing cold, ice, snow, wind, nor old age will stop our trying to do well in the VHF SS (W2PAU). The conditions weren't great, but I had a lot of fun (WA2AEY). It appeared that there was reduced activity and fewer grids available this year on the four bands I worked, not just for me, but for many amateurs in the area. It's hard to assign a cause, although it would appear that the severe weather in the region kept some stations off the air because of damaged or iced-up antennas (WA3AQA). It's too bad the ice was a bigger factor than the atmospheric conditions! (KU3A). This was

Affiliated Club Competition

Unlimited Category

Mt Airy VHF Radio Club	1,427,654	53	WA3NUF
Rochester (MN) ARC	20,273	55	N8CKK

Medium Category

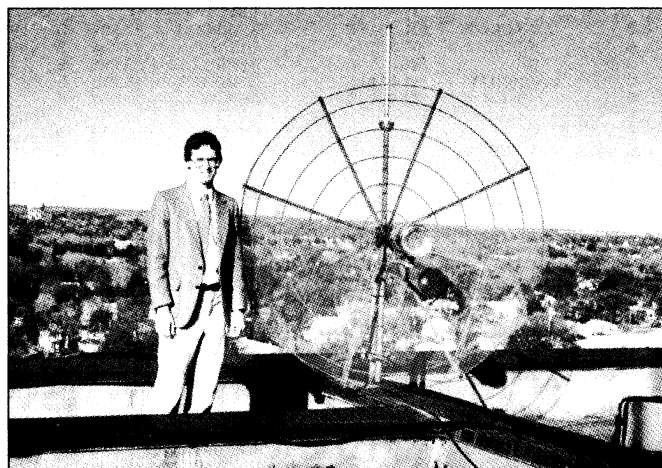
North East Weak Signal Group	1,395,826	32	WA2TEO
Northern Lights Radio Society	970,569	32	W0UC
Northern Texas Microwave Society	458,117	9	K9MK
Potomac Valley Radio Club	423,320	9	W6AXX
Rochester DX Association	156,462	14	W2HPF
Albany ARA	131,463	34	WA2BAH
Yankee Clipper Contest Club	130,190	6	K1TR
Schenectady ARA	104,842	44	KB2HQ
Delaware Valley VHF Society	104,505	6	N3FUJ
North Coast Contesters	95,100	3	NW3C
South Jersey Radio Assn	87,388	21	K2YY
Murgas ARC	76,702	4	WA3YON
Xerox ARC	67,714	27	N2KXS
Six Meter Club of Chicago	38,572	28	WA9FIH
Keystone VHF Club (York, PA)	34,374	3	KA3CCA
Brockport AR Klub	30,871	18	WB2VPH
Mad River Radio Club	29,423	3	K8MFO
Quabog Valley ARC	27,020	11	K1ISW
Badger Contesters	18,796	11	K9VGE
Mount Tom ARA	14,847	5	N1JOH
Troy ARA	10,341	14	WM2Y
Ventura County ARC	6,459	5	N6QOA
Mobile Sixers RC	2,427	9	WA3JMM
Michigan City ARC	2,197	3	W9ESU
Goddard ARC	1,687	5	N2US
Eastern New Mexico ARC	1,244	4	KD4JDT

Local Category

Bergen ARA	106,014	3	N2FWI
Central Jersey VHF Society	96,740	4	KA2WKA
Talladega ARC	8,846	4	AD4DA
North Shenandoah DX Assn	3,821	4	N4MM
Conejo Valley ARC	3,659	5	K1FJM/6
Rochester Repeater Radio Assn	2,140	3	N2MXG
West Park Radio Ops	855	5	WB8JBR

my first contest since 1976. I found the contest active and I was surprised at the activity on 432 MHz! (WA4ALJ). This was the best VHF Sweepstakes for me, thanks to rovers! (K5MAT). It was a nice contest. The 6-meter E_s was a big surprise and all the rovers kept things cooking! (AA9AO). I didn't have much time to operate this year (N4VC). I started with a vertical, but switched to my 40-meter beam when it proved to work better. It's amazing what you can work if you try (K5ZD). Tropo conditions were poor, even for January, but the E_s on 6 meters lived things up a bit. It was good to hear a lot of old friends and even better to meet a lot of new ones. I hope that trend continues! (KA2DRH). I found 6 meters as bad as I've ever heard it and I've been working it since 1964! (AD4DG). Despite the iced-up antennas on Sunday, this was by far the best January VHF SS I can remember (K8MD). I had a great time! I found a lot of rover activity. The weather was in the 60s and couldn't have been better for running up and down the towers (KD0DW). This was my first time participating in a VHF contest and I enjoyed it (VE6DLS). It was another fine contest. I got to renew old local acquaintances. Here in the Denver

area, we were fortunate to have nice, unseasonably warm weather. Those who operated from their homes had the misfortune of having to be indoors! (W6OAL). It was a "hot" contest for a "cold" weekend! (WA1EYF). My thanks to the rover stations that helped create a lot more activity, especially because band conditions were so poor (WD5EWD). Saturday was a lot of fun! Sunday was a disaster! (W1FEZ). This has been one of the best January SS in quite a while! The turnout was good (KB0EEB). Two hours before the start of the contest, we found antifreeze flowing out of the engine of the van. Luckily, a new radiator cap fixed the leak and the van was ready to roll for the contest. The weather in Kansas was wonderful. It was nice to have a 6-meter opening to 8-land from central Kansas! (AJ0E). Ice storms prevented me from putting up two antennas. Next year I won't procrastinate! (K3MFI). Good old 6 meters was again the band to be on! Signals were good both days with openings to the west on the first day and to the east on Sunday (KB9FZQ). This was the worst propagation in years because of the effect of two cold fronts colliding above us. We slept two days on the ground without a tent! Someone offered one, but canceled the offer when we were just about to start the DXpedition (CO0FRC). This time, I only tore the muffler off my car once during the contest! The weather conditions for roving were excellent (NK5F). It was a tough contest and I had to fight for every contact (N1DGF). This was my first contest. Although my score isn't impressive, I accomplished my goal, which was to have fun! (AA3GM). I heard little activity, but the contest was fun. I guess the ice and snow kept the mountaintoppers from their usual perches! (N4BG). I noted improved activity this year, but line noise was a problem for me (W9JGV). The activity level in the upper Midwest was good. We had nice tropo conditions from Iowa to the southwest Saturday and Sunday evenings (WR0G). Why not try FM simplex? You'd be amazed at what you'll hear, especially when I'm mountaintopping looking for you! (KB7GYS). This was my first contest. I almost fell asleep at the station I was so tired, but I'm looking forward to June (KD4HJM). I raised the antennas to 40 feet and heard WA7KYM in DN71 for the first time ever! The activity in this contest gets better every year (K5RHR). I found conditions at the start to be poor, but they changed to good on Sunday. I made my first contact on 902 MHz. This band has promise! (W1AIM). I heard a number of operators complaining that their antennas and rotators were still frozen solid from the recent ice storms. I found it interesting to see the activity pick up during the second football playoff game (KA2IVS). Nothing could keep us from participating in the January VHF SS, even temperatures below zero and 39 inches of snow! I highly recommend the January VHF SS for new hams. It's a great place to get your "contesting" feet wet and it's a perfect remedy for the mid-wintertime blues (WB3IOU). I think the rain hindered the operating time, as there seemed to be very little participation (N6MI). We had a nice one-hour opening on 6 meters! (KB6IGC). Propagation was average to below average, but there was much more activity than last year. I was operating



John, N00Y, went up on the roof to operate QRP portable with this 6-foot dish.



NCJ "VHF Contesting!" Editor Larry, N0LL, seems happy after setting a new Division record in the ARRL Midwest Division.

from the backyard and it got cold sitting out there for hours (WD9IAB). Weather conditions were great, the temperature was 31°F, even though we were snowed in with 18 inches of snow! (KC4JGS). Surprise! 2-meter FM contesting is finally catching on, thanks to the article in the January QST on FM VHF contesting (N7GJD). Three hours into the contest my rotator failed, leaving the beams pointing southeast. I was still able to work the E_s off the back and side of the antenna. It was great to hear E_s in January! (N9BJG). Making 33 contacts with EN48 is better than I ever did before in one sitting! (VE3JAR). Activity in the upper-Midwest area was tremendous, with a constant pileup from all my stops. I managed to activate 11 grids and had a blast! (NØHJR). I had a lot of fun on 2 meters. Thanks again for a great time (AJØK). Activity seemed good, but with noisy conditions, I was forced to a premature withdrawal from this contest (VE3KDH). My score isn't great, but I had fun and I'm looking forward to June when conditions are better and the weather is more conducive to going up on a mountaintop! (VE6KC). This is my first adventure as a rover. Our set-up and tear-down times were less than 20 minutes, except for the time we got the RV stuck in the sand in DM24! We wondered why there was such low activity, but then we remembered that the earthquake was just five days earlier (W6TKV). Despite mediocre conditions, I was glad to see good activity levels (WA1LBK). I found activity on 432 MHz the best in years! (N16L). I had a great time and a spectacular view. I operated at the base of the world-famous Superstition Mountains, home of the Lost Dutchman's Gold Mine. I didn't find the gold, but enjoyed it all the same (K17LP). This was the first time in 18 years that I experienced sporadic E on 6 meters in the January SS. Two rovers really helped the score. I worked them 68 times! (NØLL). Saturday morning we dug the antennas out of the snow, they were frozen to the ground! We threw them on the tower and made five times more contacts than expected (K1LL). After 530 miles through seven grids, I'm not sure we could have covered more grids unless we gave up on microwave contacts or sleep! (WB5LUA). The mast was frozen for the entire contest with the antennas pointing east (WA1MBA). There doesn't seem to be much activity in this area, but it's getting better each contest! (KG5MZ). It seemed like everyone came out of the woodwork for the last three hours! (NØMMU). I needed my four-wheel drive to make it up to Overlook Mountain because of an ice storm! Coming down the mountain was, at best, a controlled slide (WA1MKE). Who says there's no activity on FM? (N1KNW). The opening to the northwest was great! I worked seven or eight new grids in the Great Lakes area. My equipment held up under the ice load and

performed flawlessly. I'd like to thank the stations that made this first full effort a success (N2TNN). 6 meters and NFL championship games just don't mix! (WB4NFS). This was my first contest. I cross-country skied five miles to Butte Lookout, at 4600 feet elevation, which I had rented from the US Forest Service. Because of many problems, I didn't get on the air until six hours into the contest. I was pleased to discover the distances I could work (N7WNC). Running 3 W powered by C batteries didn't blow anyone's doors off, but I was pleased to get 25 QSOs here in Kansas (K17NG/Ø). I'd like to thank the rovers out there. They did a great job (KD4OIG). There were short-duration openings to

the south, southwest and west on Saturday evening, most of which I missed! But I was lucky enough to catch a good opening from Ohio to W1- and VE1-land during the early evening on Sunday. It was interesting (N8LOT). This event showed a whole new world to one of our ops who had only experienced 2 meters with a hand-held FM rig until this point (N8KOL). Murphy struck in a big way! It was difficult to rotate the antennas because of a bent mast caused by high gusts of wind the night before the contest. Then the computer monitor started smoking! These things can slow down a guy's QSO rate (K2UOP/8). The 6-meter rig decided to smoke just as the contest started. Subsequent investigation revealed a short in the driver-biasing circuit. With no drive, results were poor (VE3OIL). Nice to hear so many people giving it a try with FM (WS1O) I enjoy roving and the challenges it presents (NQ2O). I'm not allowed to have antennas in my neighborhood, so I got by with a 6-meter X-beam, and small quads on 144 and 432 MHz sitting on my second-floor deck, driven by a barefoot transceiver (N3JPU). Once I started, I was hooked! 2 meters was average to slightly above. The two short E_s openings on 6 meters lived things up. I had to contend with intermittent power-line noise throughout the contest (WA9PWP). It was a great contest with good activity, but the QRN on 6 meters was terrible! (AA8Q). After record cold, the record thaw kept line noise up over S9 on Sunday, and football made the band seem even worse! (N8OQZ). Local activity and weather were both good (KE9QT). Having everyone over to the house to operate under the club call sign was a job in itself, but everyone had a great time. It was encouraging to see a significant increase in activity on the 222- and 440-MHz bands. The codeless license has helped (WA3RKB). Braving the remnants of a snow and ice storm, and record cold temperatures, we returned to Duck, North Carolina, to put FM26 on the air. Except for brief sporadic E on 6 meters, propagation was a big disappointment (W4PRO). It was too bad there were no 6-meter openings! Still, I did have a lot of fun as usual (WA6RAY). I've been away from Amateur Radio for years, too many, and just got back into it this past summer. I had forgotten how much enjoyment and pleasure can be had from so many different facets of this hobby! (KF9RW). I almost made my goal of 100 QSOs, which is unreal for a January contest in the sparsely populated area of west Texas! (WS5R). We made this contest short and sweet because it was freezing, even at our clubhouse. This January stuff is a test of winter endurance! (K1IDS). 6 meters opened up briefly twice, and if you didn't go searching, you didn't get a piece of the action! (N2MSS). Lots of activity made up for flat conditions. FM contacts helped with my QSO total. It was a lot of fun and I can't wait for June! (N2NSY).

Confessions of a Prairie Rover

By Rich Westerberg, NØHJZ

I spent the weeks before the contest getting ready for my trip. What else could I do? The temperature outside was -30°F! The weather warmed up to 32°F for the contest, which was ideal.

I set up in EN15 to start the contest and found great signals into the Minneapolis area on all bands up through 2304 MHz! My antennas were mounted on a rack made of 2x2s on the roof of my car. I rotated antennas by turning my car. I could do some additional peaking with the rotator for 6 meters, 1296 MHz and 2304 MHz.

The activity in the upper Midwest was tremendous, with constant pileups from all my stops. I activated 11 grids and had a blast! The biggest thrills were working WAØBWE and KØFQA from 10 grids on 2304 MHz and working WD9EGE, more than 300 miles away, on 1296 MHz! The only disappointment was not being able to make many QSOs with other rovers over long distances. My final tally was 590 QSOs, 238 grids and 631 miles. I can't wait for the ARRL Spring Sprints and the June VHF QSO Party!

Regional Leaders

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

WA2TEO	244,120	S
KA1ZE	222,720	S
K1RZ	196,350	S
WA3NUF	163,170	S
WZ1V	160,016	S

NM1K	25,758	Q
WX3P	1,947	Q
K2DB	784	Q
KA2CKI	672	Q
N2DGI	204	Q

N2WK	451,577	M
W1NY	292,572	M
WØRSJ	131,852	M
W3IP	89,208	M
N3EXA	56,848	M

K3MQH	213,142	L
W3ZZ	176,256	L
N2CEI	155,067	L
N2DSY	103,269	L
WB2ELB	66,364	L

WA2MOP	167,076	R
KA1TBS	48,472	R
N2ULL	29,392	R
(WD4RDZ,op)		
N1NOE	17,097	R

Southeast Region (Delta, Roanoke and Southeastern Divisions)

K2UOP/8	51,230	S
N4HB	47,022	S
KC4YO	39,809	S
K9OYD/4	35,376	S
KA2DRH	31,428	S

WA4ALJ	6,510	Q
KD4VGD	3	Q

W4PRO	16,320	M
W2XL	5,719	M

N8TLZ	59,432	L
WB4NFS	26,112	L
AC4OP	10,740	L
WA8DQR	6,528	L
WB4VFT	3,325	L

AC4HG	21,186	R
KC4YCK	2,349	R
AD4DY	2,112	R

Central Region (Central and Great Lakes Divisions; Ontario Section)

WA8WZG	210,015	S
WØUC	124,950	S
N9MKC	106,080	S
KE8FD	97,240	S
W8ULC	82,795	S

N8AXA	110	Q
N8ZAT	78	Q

AA9AO	20,336	M
VE3NPB	1,577	M

KU8Y	41,814	L
N2BJ	21,533	L
WB9CEP	15,600	L
WD9EXD	14,229	L
N8KOL	13,050	L

KE9QT	105,336	R
K9JK	10,048	R
WB9GKA	2,232	R
N9DEX	980	R
WA9LZM	56	R

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

WAØBWE	101,394	S
KBØZQ	66,355	S
NØLL	61,776	S
WAØNTT	61,674	S
KØFQA	42,656	S

NOØY	6,477	Q
NØWCB	108	Q
NØVUR	105	Q
NØVUQ	100	Q
NØMGY	45	Q

AA5C	127,820	M
WQ5S	72,288	M
WBØGGM	54,808	M
WDØGNK	6,864	M

NØSGL	52,496	L
WA7KYM	18,105	L
KØDAS	13,230	L
KB5KYJ	9,955	L
AJØK	6,579	L

NØHJZ	278,698	R
AJØE	108,578	R
WB5LUA	96,844	R
N5QGH	92,110	R
NØSUO	17,319	R

West Coast Region (Northwestern, Pacific and Southwestern Divisions; Alberta, British Columbia, Northwest Territories and Yukon Sections)

KC6WLC	17,524	S
W6GGV	14,036	S
K7ND	13,250	S
WA6RAY	12,285	S
KE7SW	11,382	S

KB6MEG	5,772	Q
AA7QZ	4,650	Q
K17NC	504	Q
N7WNC	184	Q
N6TCZ	16	Q

W6TRW	14,610	M
KC6TJV	2,280	M

WA7IQH	795	L
KB7CRT	744	L
KE6BGH	220	L
W6AB	160	L

WB9AJZ	112,068	R
NØ7K	52,700	R
KD7TS	42,100	R
K6LMN	20,252	R
NGØX	8,208	R

Scores

Scores are listed by Divisions. Within each Division, single-operator scores are listed first, followed by QRP Portable, Multioperator and Limited Multioperator scores. From left to right, each line lists: call sign, score, QSOs, multipliers, class (S = Single Operator; M = Multioperator; L = Limited Multioperator; Q = QRP Portable; R = Rover), Section (or, if a rover, the number of grids activated) and band (A = 50 MHz, B = 144 MHz, C = 222 MHz, D = 432 MHz, 9 = 902 MHz, E = 1296 MHz, F = 2.3 GHz, G = 3.4 GHz, H = 5.7 GHz, I = 10 GHz, J = 24 GHz, K = 47 GHz, L = Light). Among single-operator stations, the single-band Section winners are noted with band letter(s) in **bold print** indicating the band won. **Bold** also denotes a new Division record.

Atlantic

K1RZ	196,350	774	165	S	MDC	ABCD9E	WB2LOU	1,888	59	32	S	WPA	AB
WA3NUF	163,170	658	126	S	EPA	ABCD9EFGI	N3BBI	1,785	85	21	S	EPA	AB
W2HPF	104,064	456	128	S	WNY	ABCD9EFG	KE2GZ	1,750	104	14	S	WNY	ABCD
WB2YEH	101,200	572	88	S	SNJ	ABCD9EFG	N3OPM	1,730	173	10	S	MDC	B
WB3JYO	93,060	522	90	S	SNJ	ABCD9EFG	K2QWO	1,703	131	13	S	SNJ	B
NW3C	93,000	470	155	S	WPA	ABCD	N2DEQ	1,624	116	14	S	SNJ	B
WA3AXV	91,584	394	72	S	EPA	CD9EFGHI	K2HPJ	1,508	116	13	S	SNJ	B
N2SB	83,895	461	85	S	SNJ	ABCD9EFGH	N2UIO	1,472	145	8	S	WNY	BCD
WB3DNI	72,884	453	76	S	EPA	ABCD9EFGHI	K3PHY	1,472	134	8	S	EPA	BC9
WB3KRW	62,350	531	86	S	EPA	ABCD	W2WGL	1,426	62	23	S	WNY	B
KB3IB	51,714	357	78	S	EPA	ABCD9E	AA2LQ	1,424	143	8	S	WNY	BD
WA3JUF	51,612	365	66	S	EPA	ABCD9EFG	KB2PBR	1,424	178	8	S	WNY	B
WA3YON	48,906	352	99	S	EPA	ABCD9E	W3HK	1,392	73	16	S	EPA	ABCD
N2IQU	46,575	380	81	S	WNY	BDE	N2TUK	1,336	140	8	S	WNY	BD
N3FUJ	44,191	578	59	S	EPA	ABCD	KA1MX	1,320	134	8	S	WNY	BD
AK3O	43,491	388	57	S	EPA	ABCD9EFG	N2OML	1,300	83	13	S	SNJ	BD
WA2OMY	43,470	332	63	S	EPA	BCD9EFGH	KB3YL	1,292	76	17	S	EPA	A
N2ODK	42,688	368	64	S	WNY	ABCD9EFGH	K2VU	1,235	65	19	S	WNY	AB
W3KKN	41,764	394	53	S	EPA	ABCD9EFG	N2HYU	1,148	125	7	S	WNY	BD
W2HRW	36,180	440	67	S	SNJ	ABCD	W2EBF	1,144	143	8	S	WNY	AB
KA2WKA	35,948	347	76	S	SNJ	ABCD9E	N3JPU	1,121	48	19	S	MDC	ABD
WA2ONK	35,310	327	55	S	SNJ	BD9E	KF2SJ	1,118	86	13	S	WNY	B
N2LBE	32,412	277	73	S	WNY	ABCD9EFG	N2WOZ	1,096	110	8	S	WNY	BD
K2YY	26,880	377	56	S	SNJ	ABCD9E	N2TUE	1,064	38	28	S	WNY	AB
K2AN	26,676	309	52	S	WNY	ABCD9E	N2JVQ	1,027	79	13	S	SNJ	B
KB3QM	26,103	263	77	S	DE	ABCD9E	N2PEY	1,008	112	9	S	WNY	AB
WB3FAA	25,636	290	68	S	EPA	ABCD9E	KS2T	1,005	65	15	S	SNJ	AC
N3DOZ	25,114	378	58	S	EPA	ABD	KB2BLS	980	196	5	S	WNY	B
KB3PD	24,024	262	66	S	DE	BCDE	W3HNU	944	57	16	S	EPA	ABC
NU2U	23,712	370	48	S	WNY	ABCD	KB2NFS	896	96	7	S	WNY	BD
K8ZES	23,478	267	78	S	WNY	ABD	N2UNH	832	96	8	S	SNJ	BD
K3IUV	22,126	307	46	S	EPA	ABCD9E	KA1CNF	814	45	11	S	WNY	ABCD
N3AOG	21,888	262	36	S	EPA	ABCD9EFGHI	WA2GFP	804	105	6	S	EPA	BC
WC2F	19,943	238	49	S	SNJ	ABCD9EFG	KA3CCA	792	62	12	S	EPA	BD
K3MFI	18,003	312	51	S	EPA	ABCD9E	W3KJM	779	41	19	S	WPA	AB
W2EIF	17,250	214	46	S	SNJ	ABCD9EFG	KF2JC	770	103	7	S	WNY	BD
WA3AQA	16,264	321	38	S	EPA	ABCD	N2WWK	768	118	6	S	WNY	BD
WB8ZAR	16,224	247	48	S	EPA	ABCD9E	W3CXU	760	67	8	S	EPA	AC
W2PAU	16,185	346	39	S	SNJ	ABD	WA3JMM	756	82	7	S	EPA	ABC
WA3EHD	16,029	329	39	S	EPA	ABCD	W2FGY	747	83	9	S	SNJ	B
K3DMA	15,660	298	36	S	EPA	ABCD9E	KAKFO	711	79	9	S	SNJ	B
W3GXB	14,469	256	39	S	EPA	ABCD9E	N2QNX	710	71	10	S	SNJ	AB
WA4VHF	14,280	120	35	S	MDC	DEF	N3BPJ	684	72	9	S	EPA	BD
N2NEP	14,233	331	43	S	WNY	B	WA3CKA	665	35	19	S	EPA	AB
N3IIT	13,545	303	35	S	EPA	ABCD	KA2J	660	55	12	S	WNY	A
N3NGE	13,200	157	50	S	EPA	ABCD9E	W3AWA (WA3KFT,op)						
N2KXS	12,555	277	31	S	WNY	ABCD9E	KA3MGB	649	57	11	S	EPA	ABC
W2EA	12,218	247	41	S	SNJ	ABD	KB2JUV	636	46	12	S	EPA	ABC
WB2VPH	11,795	245	35	S	WNY	ABCD	N2MYM	620	46	10	S	WNY	B
KT2B	11,594	165	34	S	EPA	ABCD9EFG	N3JES	616	66	7	S	EPA	BCD
AF2K	11,556	340	27	S	WNY	ABCD	N2PSH	600	120	5	S	WNY	B
KB3ZS	11,484	260	33	S	EPA	BDE	W2ORA	570	92	6	S	SNJ	BD
NM2J	10,440	206	36	S	WNY	ABCD9E	KE2MK	570	114	5	S	WNY	B
KB3XG	10,224	126	24	S	EPA	CD9EFGH	WA3KSP	532	38	14	S	EPA	A
WA2ZNC	10,220	220	35	S	WNY	ABCD	N3OGF	518	37	14	S	EPA	B
N2SCJ	9,724	309	26	S	SNJ	ABD	W2WJ	516	129	4	S	WNY	B
N2HJD	9,154	259	23	S	WNY	ABCDIL	WA2YSW	515	96	5	S	SNJ	BD
N2BYE	8,700	245	30	S	SNJ	BD	KB2CHY	496	57	8	S	WNY	ABD
KA2ENE	7,524	279	22	S	WNY	ABD	N2BKS	496	31	16	S	WNY	B
K2OEQ	7,128	191	33	S	WNY	ABD	N3IPM	492	56	6	S	EPA	BCD
AA2IO	7,004	165	34	S	WNY	ABCD9E	KB2HRH	488	122	4	S	WNY	B
KE2T	6,925	209	25	S	WNY	ABCD	W3HDD	448	28	16	S	WPA	A
KA3SDP	6,594	157	42	S	WPA	B	W2OMV	444	111	4	S	WNY	B
WY2Z	6,150	217	21	S	WNY	ABCD9E	N2WXX	426	48	6	S	WNY	ABCD
NW2M	6,119	211	29	S	MDC	B	K2OID	396	96	4	S	WNY	BC
K3GNC	5,825	217	25	S	EPA	BC	KE2OW	380	64	5	S	WNY	BC
W3GAD	5,760	192	30	S	EPA	ABD	N2XDO	380	95	4	S	WNY	B
K3EBZ	5,568	167	22	S	EPA	BCDE	N3OZO	370	33	10	S	EPA	BD
KC2TA	5,539	191	29	S	SNJ	ABD	WA2UBD	365	61	5	S	WNY	BD
K3KEL	5,425	155	35	S	EPA	B	N3DZK	350	26	10	S	EPA	BCD
N3LKI	5,346	135	33	S	EPA	ABD	N2US	350	50	7	S	MDC	B
KU3A	5,103	152	27	S	EPA	ABD	WU2W	332	83	4	S	WNY	B
WA3YUE	4,853	121	23	S	EPA	ABCD9E	N2UEG	325	58	5	S	WNY	BD
WA2BPQ	4,849	280	13	S	WNY	BCD	KB2SE	312	78	4	S	WNY	B
K2JQI	4,396	156	31	S	WNY	B	WB5NLJ	306	31	9	S	WPA	BC
K3ESJ	4,800	156	24	S	EPA	ABCD	W3FG	304	38	8	S	MDC	AB
K3CNH	4,620	132	35	S	DE	AB	N3OWE	297	33	9	S	EPA	B
WA3BZT	4,590	170	27	S	DE	B	NJ2L (FN03)	288	9	4	S	WNY	FGI
W6AXX	4,525	181	25	S	MDC	B	WB2REM	276	23	6	S	SNJ	D
KA3JWJ	4,428	123	36	S	WPA	B	N2RUA	272	59	4	S	SNJ	BD
KA3KHJ	4,160	160	26	S	DE	B	KB2PWK/N	272	34	4	S	WNY	C
N3KSE	4,082	141	26	S	DE	ABD	W2HG	268	67	4	S	WNY	B
WB2VLA	4,000	122	25	S	SNJ	ABD	WB2MKN	265	53	5	S	WNY	B
N2UQE	3,936	184	16	S	WNY	BCDI	WA2ZZX	264	64	4	S	SNJ	BD
W3HFY	3,780	105	20	S	EPA	ABCD9E	N2TUF	250	20	13	S	WNY	AB
N2HJX	3,510	208	13	S	WNY	BCD	W3LMC	256	32	8	S	MDC	B
K2SA	3,107	173	13	S	WNY	ABD	AA3GM	253	20	11	S	WPA	ABD
WB2JFL	2,880	144	20	S	WNY	B	W2IFR	250	47	5	S	SNJ	BD
KE2DI	2,860	201	13	S	WNY	ABC	N2TGM	230	46	5	S	SNJ	B
WB4U	2,808	107	24	S	MDC	BCD	KE2LU	204	68	3	S	WNY	B
WA2ROW	2,736	153	16	S	WNY	ABD	N2SZE	204	68	3	S	WNY	B
W3FUH	2,720	85	32	S	WPA	B	KB2NU	200	50	4	S	WNY	B
WA3IAC	2,716	112	14	S	EPA	BCD9E	N2TWI	195	65	3	S	WNY	B
KB2HVL	2,565	119	15	S	WNY	ABCD	WA3TUL	185	23	5	S	EPA	BC
N2RYU	2,522	97	26	S	WNY	A	N2VPN	183	61	3	S	SNJ	B
N2LJI	2,387	168	11	S	WNY	BCD	W3UQC	174	29	6	S	EPA	B
WB8YGG	2,355	157	15	S	WNY	B	WR3P	170	28	5	S	EPA	BC
WA2AEY	2,340	90	26	S	WNY	B	WK2N	144	48	3	S	WNY	B
N3DRX	2,300	108	20	S	MDC	BD	N2LPQ	144	48	3	S	WNY	B
N2IZW	2,214	177	9	S	WNY	BCD	WR3L	140	20	7	S	MDC	B
N2NNB	2,145	143	15	S	SNJ	B	N3SHS	120	15	8	S	EPA	A
WM3D	2,120	208	8	S	WNY	BD	W3IS	114	38	3	S	EPA	B
WA2LCC	2,070	138	15	S	WNY	B	WA2DUE	108	54	2	S	SNJ	B
W2UAD	2,040	85	24	S	WNY	B	N3KSB	105	15	7	S	WPA	AB
WA2YTM	2,037	85	21	S	WNY	ABD	KV2X	102	34	3	S	WNY	B
N2MXG	2,004	129	12	S	WNY	ABD	K3UA	102	17	6	S	WPA	A
K3MD	1,998	74	27	S	WPA	A							

WB2EFL	100	20	5	S	SNJ	AB																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
--------	-----	----	---	---	-----	----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

N2BJ (+N2CIX)	21,533	275	61	L	IL	ABCD
WB9CEP (+N8s KZJ, LRR, OBT, W9SU)	15,600	177	78	L	IL	ABD
WD9EXD (+W9RVG)	14,229	232	51	L	IL	ABCD
WK90 (+KA9KLZ)	351	27	13	L	WI	B
KE9QT	105,336	367	209	R	8	ABCDE
K9JK	10,048	117	64	R	5	ABCD
WB9KA	2,232	52	36	R	5	ABCD
N9DEZ	980	98	10	R	4	B
WA9LM	56	8	7	R	4	B

WBGGGM (WAZPHW, KA&JWC, ops)	54,008	291	12	M	MN
WDGDNK (KQTS, WQOHU, ops)	6,864	118	39	M	MN
AJ0K (+N0R0X)	6,579	150	43	L	MN
K1LL (+WB7Q, WVOH)	3,999	93	43	L	SD
N0TCN (+N0TCH)	3,680	111	32	L	MN
W0HZO (+K0CP)	18	9	2	L	MN
N0HJZ	278,698	590	238	R	11
N0S0U	17,319	198	69	R	5
WAZVOI	15,808	169	64	R	4
N0C0S	769	171	43	R	2
K0M5B	648	56	9	R	2
NJ0C	369	41	9	R	3
W0DH1H	175	25	7	R	3
K0MHC	96	12	6	R	3
WB0LJC	72	4	4	R	2

N0WCB	108	27	4	Q	MN	B
N0VUR	105	21	4	Q	MN	B
N0VUQ	100	20	5	Q	MN	B
N0MGY	45	14	3	Q	MN	BD
N0PGQ	16	8	2	Q	MN	B
WB0OAJ	6	3	2	Q	ND	B

WB8GGM (WA2PHW, KA9JWC, ops)	54,808	291	124	M	MN	ABCEDE
WD0GKX (K0TS, W0OHU, ops)	6,864	118	39	M	MN	ABCEDE

AJ9K (+N0ROX)	6,579	150	43	L	MN	ABC
K1LL (+WB7Q, WV0H)	3,999	93	43	L	SD	AB
N0TCN (+N0TCH)	3,680	111	32	L	MN	ABD
N0HZO (+K0COP)	18	9	2	L	MN	B

Delta						
KC4YO	39,809	247	121	S	TN	ABCD9E
WB4JGG	18,642	194	78	S	TN	ABD
WB4VYH	12,462	160	62	S	TN	ABDE
AA4H	10,812	125	68	S	TN	ABCD
N4VC	6,206	101	58	S	TN	ABD
KC4QWZ	5,586	98	49	S	TN	ABD
WB5KYK	4,329	93	37	S	MS	ABC
N4OYS	3,744	60	39	S	TN	ABDE
AD4F	1,176	56	21	S	TN	AB
W5FYZ	990	45	22	S	TN	B
WA4TKR	608	32	19	S	TN	A
KG5MZ	504	26	18	S	MS	ABD
N4XXJ	20	10	2	S	TN	B

KD4VGD	3	3	1	Q	TN	B
N5MYH (+KB5SUI)	1,768	55	26	L	LA	BD
W5GAD (N4VTT, KB5GA, N5UXT, WA9TMC, WB9VTN, ops)	374	33	11	L	LA	ABD

AC4HG (+AC4HH)	21,168	175	84	R	2	ABCD9E
Great Lakes						
WA8WZG	210,015	610	195	S	OH	ABCD9EF
KE8FD	97,240	437	170	S	OH	ABCEDE
WB8JLC	82,795	463	145	S	OH	ABCD
W8BD	76,580	372	165	S	OH	ABCEDE
W8MZO	67,788	430	126	S	OH	BD
K8MD	43,120	295	110	S	MI	ABCD9E
KB8NNE	40,339	304	107	S	MI	ABD
K0BJ	37,698	302	103	S	MI	ABDE
K4TO	36,652	261	119	S	KY	ABD
AA8Q	29,388	307	93	S	OH	ABD
K8MFO	28,009	250	89	S	OH	ABD
N8GHU	24,064	197	94	S	OH	ABCD
WA8QNR	23,316	268	87	S	OH	AB
KB8KS	19,276	192	79	S	OH	BD
WB8TGY	19,099	181	71	S	MI	ABDEFG
WB8K	16,055	187	65	S	OH	ABD
WZ8T	15,825	178	75	S	MI	ABD
AA8BC	15,045	255	59	S	OH	B
N8LOT	14,508	201	62	S	OH	ABD
N8FUJ	7,728	130	48	S	MI	ABCD
KB8O	7,216	176	41	S	MI	B
KB8EAP	6,549	177	37	S	MI	B
N8PVT	5,865	101	51	S	MI	ABD
N8CCC	4,896	86	48	S	OH	ABCD
K8WW	4,350	150	29	S	OH	B
N18T	4,320	120	36	S	OH	B
KC4JGS	4,251	95	39	S	KY	ABD
NZ8O	4,128	129	32	S	OH	B
N8VEA	3,500	106	28	S	OH	ABD
N8YWY	3,264	85	32	S	OH	BD
KN4OL	2,910	97	30	S	KY	B
K2YAZ	2,560	80	32	S	MI	B
WA8RCN	2,072	74	28	S	OH	AB
KD4SZJ	1,932	69	28	S	KY	AB
KB8KJ	1,775	71	25	S	OH	A
N8RPA	1,380	69	20	S	OH	B
W1FEZ	1,260	63	20	S	OH	B
N8RAH	1,160	58	20	S	OH	B
N8JMK	1,159	39	19	S	OH	AD
N8IVW	1,080	60	18	S	MI	B
N8LGP	988	52	19	S	OH	B
KA8NRC	840	49	15	S	OH	ABCD
WB8JBR	803	71	11	S	OH	BD
N8OQZ	720	40	18	S	OH	B
N8QYW	561	33	17	S	MI	B
WA4GPM	495	45	11	S	OH	B
WD8MMA	450	30	15	S	OH	B
N8SSH	444	37	12	S	OH	B
N8QXC	403	28	13	S	OH	ABC
N8LMT	378	27	14	S	MI	B
N8GRW	345	23	15	S	OH	B
K8MR	286	22	13	S	OH	AB
KB8QDS	135	27	5	S	MI	B
W8IDM	28	14	2	S	OH	B
KB8QBM	16	8	2	S	OH	B
W8XT	15	5	3	S	OH	A
KE8XK	10	5	2	S	OH	B
WB8ORV	9	9	1	S	OH	B
AF8C	5	5	1	S	OH	B

N8AXA	110	11	10	Q	OH	A
N8ZAT	78	13	6	Q	OH	AB

Hudson						
N2LIV	59,598	433	86	S	NLI	ABCD9E
WA2BAH	57,834	413	81	S	ENY	ABCD9EFGHJ
WB2VVV	33,792	345	66	S	NJ	ABCD9E
W3HHN	30,095	329	65	S	ENY	ABCEDE
KB2HQ	28,469	294	49	S	ENY	ABCD9EFGHJ
WB2WHD	21,648	290	48	S	ENY	ABCEDE
WA2VYA	13,482	291	42	S	NJ	ABD
WB2QOQ	12,750	375	34	S	NJ	B
N2TNN	10,526	235	38	S	NJ	ABD
KB2KIR	8,760	210	40	S	NJ	ABD
WA2LTM	7,476	68	21	S	NJ	EF
WA2EIO	7,018	165	29	S	NLI	BDE

ABCD9E	WA2KPD	6,380	183	29	S	ENY	ABCD
ABD	WB2YLR	6,136	193	26	S	ENY	BD
ABDE	WB2WHI	6,068	116	37	S	NJ	BCD
ABCD	KC2OF	5,797	157	31	S	ENY	ABD
ABD	WB2VQ	5,550	160	30	S	ENY	ABCD
ABD	K2AGZ	4,620	210	22	S	NJ	B
ABC	WB2MRX	4,524	156	29	S	ENY	AB
ABDE	WM2Y	3,870	156	18	S	ENY	ABCD
AB	N2MSS	3,510	111	26	S	ENY	ABCD
B	N2GZD	3,473	151	23	S	NLI	B
A	KA2MCU	3,367	66	13	S	ENY	ABCD9EFGHJ
ABD	N2OGU	3,350	130	25	S	NJ	ABCD
B	N2KFC	3,234	147	22	S	NLI	B
	NN2T	2,625	125	21	S	NJ	B
B	W2KHQ	2,354	78	22	S	ENY	BDE
	N2NSY	2,295	135	17	S	NLI	B
BD	N2QHS	2,090	96	19	S	NLI	ABD
BC,	N2LDU	2,044	146	14	S	NJ	B
	KA2VNP	1,572	106	12	S	ENY	ABD
ABD	WA2IWW	1,490	127	10	S	ENY	BD
	N2LMU	1,485	124	11	S	NJ	BD
	K2RI	1,452	94	11	S	ENY	BCD
	WA2WQZ	1,391	99	13	S	ENY	ABC
ABCD9E	WA2UDT	1,320	57	20	S	NJ	ABD
	NY2U	1,304	125	8	S	ENY	BD
	N2UAH	1,278	71	18	S	NJ	A
	KB2JZJ	1,133	103	11	S	ENY	B
	KB2HPW	1,066	66	11	S	ENY	ABCD
ABCD9EF	N2AOZ	1,001	66	11	S	ENY	ABCD
ABCD9E	N2PEQ	890	100	10	S	ENY	ABCD
ABCD	KB2KFV	866	86	10	S	ENY	ABCD
ABCD9E	N2QJY	854	105	10	S	ENY	ABCD
BD	K2ANL	750	105	10	S	ENY	ABCD
ABCD9E	WA2WYR	670	107	10	S	ENY	ABCD
ABCD	WG2I	580	107	10	S	ENY	ABCD
ABDE	KE2XB	580	107	10	S	ENY	ABCD
ABD	N2TTA	530	107	10	S	ENY	ABCD
ABD	KB2HPX	516	107	10	S	ENY	ABCD
ABCD	N2QIP	444	107	10	S	ENY	ABCD
AB	WA2YBM	444	107	10	S	ENY	ABCD
BD	WA2UYL	421	107	10	S	ENY	ABCD
ABDEFG	KB2QDA	412	107	10	S	ENY	ABCD
ABD	N2WSW	370	107	10	S	ENY	ABCD
ABD	N2UIA	366	107	10	S	ENY	ABCD
ABD	N2SMU	330	107	10	S	ENY	ABCD
ABD	KB2KDY	290	107	10	S	ENY	ABCD
ABCD	WB2LXC	290	107	10	S	ENY	ABCD
B	K2PK	276	107	10	S	ENY	ABCD
B	KB2JZ	260	107	10	S	ENY	ABCD
ABD	WD2AJS	230	107	10	S	ENY	ABCD
B	W2ARQ	220	107	10	S	ENY	ABCD
ABCD	KA2EXB	210	107	10	S	ENY	ABCD
B	KB2KTZ	210	107	10	S	ENY	ABCD
B	KA2TJZ	210	107	10	S	ENY	ABCD
ABD	WB2FOB	190	107	10	S	ENY	ABCD
B	KA2AUJ	190	107	10	S	ENY	ABCD
BD	WB2AMU	180	107	10	S	ENY	ABCD
B	N2QFH	180	107	10	S	ENY	ABCD
AB	N2LOD	180	107	10	S	ENY	ABCD
AB	WB2ZCM	160	107	10	S	ENY	ABCD
AB	WB2CLN	160	107	10	S	ENY	ABCD
B	WB2EAR	150	107	10	S	ENY	ABCD
B	KB2DJ	130	107	10	S	ENY	ABCD
B	N2COU	130	107	10	S	ENY	ABCD
B	KA2JKA	130	107	10	S	ENY	ABCD
AD	KB2FJ	130	107	10	S	ENY	ABCD
B	WA2ILD	120	107	10	S	ENY	ABCD
B	N2JJE	120	107	10	S	ENY	ABCD
ABCD	WB2FQL	120	107	10	S	ENY	ABCD
B	N2FWI	120	107	10	S	ENY	ABCD
B	VV2C	110	107	10	S	ENY	ABCD
B	KA2MLX	100	107	10	S	ENY	ABCD
B	N2LUD	100	107	10	S	ENY	ABCD
B	KF2AB	80	107	10	S	ENY	ABCD
B	N2KJM	80	107	10	S	ENY	ABCD
B	WA2ASQ	70	107	10	S	ENY	ABCD
ABC	N2XGB	70	107	10	S	ENY	ABCD
B	AA2CW	60	107	10	S	ENY	ABCD
B	N2XKF	50	107	10	S	ENY	ABCD
AB	WB2KDD	50	107	10	S	ENY	ABCD
B	N2RPX	50	107	10	S	ENY	ABCD
B	WB2VJC	40	107	10	S	ENY	ABCD
A	KA2JHX	30	107	10	S	ENY	ABCD
B	N2WJG	30	107	10	S	ENY	ABCD
B	N2LBT	30	107	10	S	ENY	ABCD
B	KF2LW	30	107	10	S	ENY	ABCD
B	N2LBZ	30	107	10	S	ENY	ABCD
A	N2WYN	30	107	10	S	ENY	ABCD
AB	KE2JJ	20	107	10	S	ENY	ABCD
	N2FNH	20	107	10	S	ENY	ABCD
	N2OII	20	107	10	S	ENY	ABCD
(C)	N2AIF	20	107	10	S	ENY	ABCD
ABCD	AB2N	20	107	10	S	ENY	ABCD
	KE2VF	10	107	10	S	ENY	ABCD
ABCD	WB2ECL	10	107	10	S	ENY	ABCD
	W2XM	10	107	10	S	ENY	ABCD
ABD	N2RPU	10	107	10	S	ENY	ABCD
WB8QVC,ops)	KB2CWX	10	107	10	S	ENY	ABCD
AB	KE2XF	10	107	10	S	ENY	ABCD
B8s MZZ,VJD)	KA2HTU	10	107	10	S	ENY	ABCD
	N2UOB	10	107	10	S	ENY	ABCD
	N2PZP	10	107	10	S	ENY	ABCD
ABC	KA2MLW	10	107	10	S	ENY	ABCD
AB	N2XGK	10	107	10	S	ENY	ABCD
	N2EKU	10	107	10	S	ENY	ABCD
	WB2FLX	10	107	10	S	ENY	ABCD
	KB2NRWN	10	107	10	S	ENY	ABCD
ABCD9E	WA2FME	10	107	10	S	ENY	ABCD

054