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and
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The 1997 ARRL November Sweepstakes Phone Results

Just a week before the 1997 Phone Sweepstakes, the following invitation from VY1JA in Whitehorse, Yukon, appeared on the Internet:

"I have a free standing shack with a wood stove for heat. It has an 850, a computer, and an amplifier that is giving me trouble. It does work...at least for now. The rotator sticks. The pileups CAN be unruly. The chances of an aurora are still fairly high in November, which means you should bring a camera because looking at the pretty sky may be all your trip is about. The weather can go to minus 40 on the drop of a hat."

Ken, K6LA, took up VY1JA's offer and learned first hand just how difficult blasting RF through aurora can be. Other hams sought equally desirable locations. Jim, K4MA, headed for the vacation paradise of WP2Z on St. Croix in the US Virgin Islands and discovered that there is indeed life on 10 meters. Frank, W3LPL, stopped by KH7R in Honolulu on his way home from Australia to do his first serious SS Phone effort in 25 years. Being over 2000 miles from most Sweepstakes participants, he found the hours of darkness a bit slow (he didn't record a single contact on 75 meters).

And, of course, we need those rare guys who just stay home! VE8EV and VY1AU helped out with Yukon. The new NL section was easy to work thanks to numerous VO1 stations. Wyoming and other relatively rare sections were also well covered. A lucky (and talented) 372 stations earned a mug by sweeping up all 79 sections.

High Power Category

Phone Sweepstakes demands the ability to talk fast, withstand interference and stay in the chair. Last year's winner Rich, N7TR, knows just how difficult it is to stay on top. With a rate of more than 100 QSOs/hour in the first 8 hours, Rich was off to his best start ever and a commanding lead over the competition from his Nevada powerhouse.

Jim, K4MA, enjoyed a solid start at WP2Z, but struggled with the QRM on 20 meters and the low bands. With everyone beaming east and west, even a rare multiplier gets lost in the noise. When Jim went to sleep at 0600Z, he was at least 200 QSOs behind Rich.

Sunday is when everyone begins looking for the sweep. Multiplier lists are checked and beams turned toward missing sections. The PacketCluster networks hum with information on where to find the most needed sections.

Jim finds that he can exploit a Caribbean propagation advantage. He makes the most out

of the north-south 10-meter paths and patiently walks hundreds of casual operators through the exchange. He makes 484 QSOs in just four hours to blast into the lead. N7TR doesn't find 10 meters to be so productive. In fact, his only 10 meter contact is with ... WP2Z!

In the end, the propagation advantage is just too much in WP2Z's favor. Despite some impressive rates, Rich couldn't hold him off and finished just 53 QSOs back for his fifth Top Ten finish in a row.

The rest of the high power pack was lead by Dave, K6LL, in Arizona. This was Dave's third year in a row at third place as he anxiously awaits the return of 10 meters. Todd, WD0T, fresh from his CW victory, operated W0SD in South Dakota to fourth spot. N5KO visited N5RZ in West Texas for a close fifth.

Top score from back east was Ken, N4UK, in South Carolina who finished in tenth overall. This marks the first appearance of an easterner in the high power Top Ten in many years. Ken made most of his contacts on 40 meters using an antenna just 43 feet high. K8DX in Ohio was also notable finishing in 14th overall.

Low Power Category

The contest for low power honors was another two-station race featuring experienced A-power aces. Charlie, K4VUD, in North Florida used a tribander and a vertical to record an impressive 1701 QSOs and a sweep for his first national SS victory.

In second was Rob, VE4GV. Last year, Rob used a broken rotator as his excuse for finishing second. This year, he and some friends braved the Canadian cold on the morning of the contest to replace the rotator. It almost worked. With over 1000 QSOs on 20 meters, over 500 on 40, and recording a personal best QSO total, Rob finished just 18 contacts behind K4VUD.

Third place went to Don, N4ZZ, in Tennessee. The top West Coast score was from 17-year old Dan, AD6DO (formerly KC6CNV). Dan did the contest "live" without the use of a voice keyer. John, KK9A, in Illinois repeated his Top Ten effort of a year ago moving up a spot to finish in fifth. W8MJ in Michigan continued the strong showing of midwestern stations to take sixth place. In a very rare trip to the Top Ten by a New Englander, KZ1M in Western Massachusetts took seventh. WX0B and W2TZ rounded out the box.

QRP Category

John, N6MU, took up the QRP challenge

and destroyed the competition for his first national Sweepstakes victory. John operated from the 7000-foot mountaintop QTH of N6NB in the SJV section. Half of his QSOs came on the relative quiet of 15 meters and he managed to snag a clean sweep.

Pulling up in second was Tree, N6TR, operating from K7RAT, the club station of the Boring Amateur Radio Club. Tree also took advantage of his Oregon location to make most of his contacts on 15 meters. He missed NNY and ME for his sweep.

Gordon, N7VY, in Arizona continued the West Coast dominance by finishing third. His clean sweep put him ahead of fourth place finisher WB0GAZ in Colorado who had the third highest QSO total but missed too many sections. Last year's winner, W7Yaq, pulled into fifth.

The first score from the east is Sean, KX9X, in Illinois. He also accomplished the difficult job of sweeping all sections. Ten



Nine year old Michael logged for his father's multiop, N1OEF, in EMA.

Phone

Single Operator, QRP

N6MU (at N6NB)	144,886
K7RAT (N6TR,op)	114,730
N7VY	105,544
WB0GAZ	98,550
W7Yaq	85,778
KX9X	81,844
KD2TT	79,200
K0FRP	72,656
K0RI	68,952
K4VYF	62,986

Single Operator, Low Power

K4VUD	268,758
VE4GV	265,914
N4ZZ	226,414
AD6DO	215,986
KK9A	212,036
W8MJ	202,082
KZ1M	193,866
WX0B	191,812
W2TZ	186,576
K3CR	184,702

Single Operator, High Power

WP2Z (K4MA,op)	371,932
N7TR	363,558
K6LL	327,534
W0SD (WD0T,op)	320,266
N5KO (at N5RZ)	318,054
N5LT	313,156
W6V (N6IG,op)	309,680
N5JA	307,784
K5TR (at W5KFT)	306,046
N4UK	305,572

Multioperator

W3GH	303,360
W0R	296,408
W4WA	296,408
K0WA	293,406
KT0R	286,770
W0MU	285,348
K1NG	285,190
K5MDX	284,558
K0DU	276,026
K7IR	274,604

Fourth Annual Collegiate Championship

The Collegiate Championship is an informal competition within the ARRL Sweepstakes that encourages college radio clubs to compete against each other. Participation in the Championship continues to rise with a new record of 50 log entries received. Schools compete on CW, Phone, and for combined score.

This year all three categories were swept by the crew at Caltech (W6UE) who also achieved a Collegiate Championship record phone score of over a quarter of a million points. A number of other schools produced strong scores and clean sweeps in W6UE's wake. Seven logs surpassed 100,000 points on CW and 150,000 points on phone.

In 1998, the Collegiate Championship will become an *official* category in the ARRL November Sweepstakes with certificates and plaques available for the top stations.

Phone Results

Call	School	Score	Conference
W6UE	Caltech	266,546	SCIAC
W5YM	Univ of Arkansas	199,712	SEC
WB9JBF	Univ of Wisc-Milwaukee	193,076	MCC
K3CR	Penn State Univ	187,230	Big 10
N5XU	Univ of Texas	182,964	Big 12
K4UCF	Univ of Central Florida	167,164	
W1YK	Worcester Poly	164,952	
W2SZ	Rensselaer Poly	145,236	
W6BHZ	California Poly	138,250	Big West
W4ATC	North Carolina State U	127,980	ACC
W09S	Univ of Chicago	121,344	
K4KDJ	Virginia Tech	113,286	Big East
W8SH	Michigan State Univ	97,300	Big 10
W3EAX	Univ of Maryland	92,820	ACC
W1MX	Mass Institute of Tech	81,928	
W6YL	San Jose State Univ	78,280	WAC
W0EEE	Univ of Missouri-Rolla	70,528	MIAA
WA5BU	Baylor Univ	51,832	Big 12
K0RX	Univ of Iowa	51,264	Big 10
W5AC	Texas A&M	46,860	Big 12
W8YY	Michigan Tech	45,990	
W1AF	Harvard Univ	36,608	Ivy
W7UNR	Univ of Nevada-Reno	34,170	Big West
W2KGY	Army	28,320	
K4USF	Univ of South Florida	17,464	
W9UIH	Southern Illinois Univ	11,956	
W3VC	Carnegie Mellon Univ	8,004	
WA0KHF	Iowa State Univ	4,960	Big 12

CW Results

Call	School	Score	Conference
W6UE	Caltech	156,420	SCIAC
K0RX	Univ of Iowa	136,460	Big 10
W09S	Univ of Chicago	112,496	
N5XU	Univ of Texas (ex-W5EHM)	105,150	Big 12
W6YL	San Jose State Univ	105,028	WAC
W1AF	Harvard Univ	103,050	Ivy
W4ATC	North Carolina State U	100,804	ACC
K3CR	Penn State Univ	94,572	Big 10
W8EDU	Case Western Reserve U	90,900	
WA5BU	Baylor Univ	88,858	Big 12
W3EAX	Univ of Maryland	80,550	ACC
W6BHZ	California Poly	73,852	Big West
WB9JBF	Univ of Wisc-Milwaukee	57,888	MCC
W8GVU	Grand Valley State Univ	46,136	
W0EEE	Univ of Missouri-Rolla	36,180	MIAA
K4KDJ	Virginia Tech	11,424	Big East
K3TU	Temple University	9,030	Big East
W8UPD	Univ of Akron	8,686	
W8YY	Michigan Tech	3,960	
W7UNR	Univ of Nevada-Reno	1,176	Big West
WA0KHF	Iowa State Univ	340	Big 12

Combined Results

Call	School	CW	Phone	Total Pts
W6UE	Caltech	1000	1000	2000
N5XU	Univ of Texas (ex-W5EHM)	672	686	1358
K3CR	Penn State Univ	605	702	1307
W09S	Univ of Chicago	719	455	1174
W4ATC	North Carolina State U	644	480	1124
WB9JBF	Univ of Wisc-Milwaukee	370	724	1094
K0RX	University of Iowa	872	192	1064
W6BHZ	California Poly	472	519	991
W6YL	San Jose State Univ	671	294	965
W3EAX	Univ of Maryland	515	348	863
W1AF	Harvard Univ	659	137	796
WA5BU	Baylor Univ	568	194	762
W8EDU	Case Western Reserve U	581	9	590
K4KDJ	Virginia Tech	73	425	498
W0EEE	Univ of Missouri-Rolla	231	265	496
W8YY	Michigan Tech	25	173	198
W7UNR	Univ of Nevada-Reno	8	128	136
WA0KHF	Iowa State University	2	19	21

contacts ahead, but missing the needed multipliers, was KD2TT in NLI who finished seventh. K0FRP and K0RI battled it out for eighth and ninth.

Multi-Operator Category

After years of trying, the W3GH duo finally captured the prize of first place in the multi-operator category. From their Western Pennsylvania location, they made most of their contacts on 75 and 40 meters while watching *Leave it to Beaver* reruns during off times.

Amazingly, there was a tie for second place. The special call W0R was used at the station of NX0I in Missouri to celebrate Raytown Roundup Days. (People kept asking for the rest of their call!) Finishing with the identical score was the gang at W4WA in

Georgia. Just to add to the confusion, the fourth place score went to another "WA" in the form of K0WA from Kansas.

The next four finishers were all within 10 contacts of one another. KT0R led the way in fifth. W0MU was just one contact ahead of KING for sixth. K5MDX was only four contacts back in eighth.

Regional Competition

There were some interesting races in the regional box scores. WB1GQR and K3MM were just points apart for high power honors in the Northeast region. KZ1M and W2TZ achieved national Top Ten scores, which is an accomplishment from this area of the country. K3CR was just a few points back.

In the Southeast, K4Vfy posted an

Affiliated Club Competition

	Score	Entry
Unlimited Category		
Potomac Valley Radio Club	12,778,736	154
Northern California Contest Club	10,923,976	115
Southern California Contest Club	6,681,810	51
Yankee Clipper Contest Club	6,181,914	90
Society of Midwest Contesters	5,903,850	70
Medium Category		
North Texas Contest Club	5,214,378	48
Frankford Radio Club	4,147,704	42
Texas DX Society	2,892,750	25
North Coast Contesters	2,513,298	25
Mad River Radio Club	2,487,504	31
Central Texas DX and Contest Club	2,478,542	18
South East Contest Club	2,453,178	21
Tennessee Contest Group	2,173,818	21
Minnesota Wireless Assn	2,095,744	20
Florida Contest Group	1,902,468	15
Kentucky Contest Group	1,872,348	29
Western Washington DX Club	1,863,776	25
Oklahoma DX Assn	1,361,416	15
Rochester (NY) DX Assn	1,337,366	23
Salt City DX Assn	1,030,212	10
Woodbridge Wireless	1,002,380	12
Motor City Radio Club	940,616	33
Grand Mesa Contesters	919,190	11
Florida Contest Club	891,954	10
Willamette Valley DX Club	886,208	8
Mile High DX Assn	672,640	7
Rip Van Winkle ARS	671,504	13
Kansas City DX Club	638,858	6
Central Arizona DX Assn	621,222	7
Weekend Warriors	602,506	8
Long Island Mobile ARC	568,156	9
South Jersey Radio Assn	505,442	15
AK-SAR-BEN	384,142	11
Schenectady ARA	384,134	6
Murgas ARC	380,798	6
Northrop Grumman Radio Club	369,154	7
Mother Lode DX/Contest Club	360,362	6
Providence Radio Assn	337,290	5
Hazel Park ARC	315,176	16
Fon du Lac ARC	309,030	7
Northern Arizona DX Assn	297,530	8
Eastern Iowa DX Assn	279,888	5
Lincoln ARC	267,556	3
Virgin Islands ARC	237,272	3
Central Michigan ARC	235,728	8
Northern Lights Radio Society	222,010	5
Western New York DX Assn	195,592	7
Murphy's Marauders	194,514	6
Green Valley ARC	179,132	5
Gwinnett ARS	176,966	7
Northwest ARS	174,406	4
Troy ARA	157,824	7
Mississippi Valley DX/Contest Clu	145,464	4
Franklin County ARC	132,870	4
Downey ARC	123,190	4
Ozaukee Radio Club	121,410	4
Radio Club of Tacoma	120,792	5
Colorado QRP Club	116,468	3
Highland ARA	113,040	5
Lynchburg ARC	78,610	3
Carolina DX Assn	67,724	3
Poughkeepsie ARC	65,946	4
Southern California DX Club	54,228	4
Fox Cities ARA	54,000	3
Local Category		
River City Contesters	1,898,646	10
Hudson Valley Contesters and DXer	1,513,256	10
Federation of Amateur Radio Opera	819,866	9
Great Falls Area ARC	383,848	4
Utah Contest Club	281,892	3
Univ of Chicago	270,248	3
Pocatello AC	249,318	5
CT RI Contest Group	227,924	6
Sturdy Memorial Hospital ARC	208,918	6
Plattsmouth ARC	200,604	5
Baton Rouge ARC	200,524	5
West Park Radiops	172,762	10
County Line ARA	165,756	5
North Shenandoah DX Assn	163,942	4
Northern New York Contest Club	159,068	6
Roanoke Valley ARC	148,884	6
Hamfesters Radio Club	144,078	6
Ft Knox ARC	141,678	3
Redwood Empire DX Assn	137,402	4
East Coast DX Assn	133,240	5
Virginia Tech ARA	130,872	3
Williamsburg Area ARC	130,310	3
Yegua Valley Contest Club	124,166	4
Sterling Park ARC	108,552	4
Lapeer County ARA	82,544	3
United Radio Amateurs Club	75,802	4
Wheaton Community Radio Amateurs	67,316	3
West Essex ARC	66,544	5
Conejo Valley ARC	27,782	4
Albemarle ARC	11,150	3
Loudoun ARG	10,354	3

Top Five—Phone

Boxes list call sign, score and class (Q = QRP, A = Low Power, B = High Power, M = Multioperator)

Northeast Region (New England, Hudson and Atlantic Divisions; Maritime and Quebec Sections)			Southeast Region (Delta, Roanoke and Southeastern Divisions)			Central Region (Central and Great Lakes Divisions; Ontario Section)			Midwest Region (Dakota, Midwest, Rocky Mountain and West Gulf Divisions; Manitoba and Saskatchewan Sections)			West Coast Region (Pacific, Northwestern and Southwestern Divisions; Alberta, British Columbia and NWT/Yukon Sections)		
KD2TT	79,200	Q	K4VFX	62,986	Q	KX9X	81,844	Q	WB0GAZ	98,550	Q	N6MU (at N6NB)	144,886	Q
N1TM	39,760	Q	W5JAY	32,944	Q	WA8RJF	44,640	Q	K0FRP	72,656	Q	K7RAT (N6TR,op)	114,730	Q
NQ2RP (WB2VUO,op)	32,154	Q	AE4SS	16,092	Q	N9NE	28,080	Q	K0RI	68,952	Q	N7VY	105,544	Q
WA3WAW	32,004	Q	N4IR	14,790	Q	W9UR	27,200	Q	W0CO	53,290	Q	W7YAQ	85,778	Q
W2CE	31,188	Q	KE6DKH	12,420	Q	K8LJQ	23,010	Q	VE4VV	48,144	Q	VE6JY	58,460	Q
KZ1M	193,866	A	K4VUD	268,758	A	KK9A	212,036	A	VE4GV	265,914	A	AD6DO	215,986	A
W2TZ	186,576	A	N4ZZ	226,414	A	W8MJ	202,082	A	WX0B	191,812	A	K6RO	176,802	A
K3CR	184,702	A	AB5SE (at N5ZS)	160,370	A	W9RM	156,736	A	K7CF	178,856	A	K7RI	173,958	A
K1HTV	168,324	A	WO4O	133,826	A	WA1UJU	126,588	A	VE5SF	171,746	A	N6NF	171,710	A
K3MQH	166,136	A	KZ2I	127,190	A	WB8APJ	125,452	A	N0AT	166,140	A	VY1JA (K6LA,op)	151,996	A
WB1GQR (W1SJ,op)	294,828	B	WP2Z (K4MA,op)	371,932	B	K8DX	298,778	B	W0SD (WD0T,op)	320,266	B	N7TR	363,558	B
K3MM	294,670	B	N4UK	305,572	B	K9BGL	246,638	B	N5KO (at N5RZ)	318,054	B	K6LL	327,534	B
K3ZO	281,892	B	W4AN (K4JNY,op)	273,182	B	K9LU	232,892	B	N5LT	313,156	B	W6V (N6IG,op)	309,680	B
KQ2M	274,920	B	W4MR (AA4NC,op)	268,442	B	W8RC	232,892	B	N5JA	307,784	B	KH7R (W3PL,op)	301,392	B
N2MM	254,538	B	K4ZAM	242,056	B	WA9TPQ	190,390	B	K5TR (at W5KFT)	306,046	B	W6TG (N6ED,op)	297,514	B
W3GH	303,360	M	W4WA	296,408	M	W9SMC	222,464	M	W0R	296,408	M	K7IR	274,604	M
K1NG	285,190	M	K5MDX	284,558	M	W8JJ	212,826	M	K0WA	293,400	M	W6UE	266,546	M
KY2J	250,272	M	K1GG	273,498	M	WB9JBF	193,076	M	KT0R	286,770	M	N6KI	256,750	M
K2DS	242,056	M	K8WT	253,116	M	W8TNO	182,490	M	W0MU	285,348	M	K6R	254,696	M
N3RR	192,918	M	AE5T	235,736	M	W4CN	164,478	M	K0DU	276,026	M	W6MR	254,064	M



From his home, Philmore, KE6WWL, used this A3S at 60 feet.



Sue, KB0SAA, listens intently and logs as Jim, N0WE, works the pileups at W0NE in MN.

impressive QRP score. N4UK broke into the high power Top Ten to beat challengers W4AN and W4MR.

The Central Region featured the annual race between KK9A and W8MJ for low power. K8DX beat K9BGL for the high power title.

All of the top high power scores in the Midwest Region also made the national Top Ten. The state of Texas was definitely RF hot that weekend! All of the multiops also earned national honors.

In the West Coast region, the high power competition was fierce. N6IG operated the 1x1 call W6V and reported that it didn't seem to affect his score up or down. Low power entry VY1JA made it into the regional box, which is a great effort from so far north. The multiop race featured K7IR getting by W6UE and N6KI.

Club Competition

Two years ago, the Potomac Valley Radio Club finished second in the club scores with 98 entries. Last year they won with 117. This year they served notice on the beginning of a new dynasty in the Unlimited Category by rounding up 154 entries and well over 12 million points. The Northern California Contest Club pulled out all the stops to recapture the top spot, but their fantastic 115-entry 10-million point score wasn't enough.

In the Medium Category, the North Texas Contest Club took home the gavel by a million points over the Frankford Radio Club. A strong showing by FRC considering they focus most of their effort into the DX contests. The Texas DX Society just got by the North Coast Contesters for third.

The local club competition has turned into the exclusive domain of the River City Contesters who captured their seventh title of the past eight years. The Hudson Valley Contesters used a "phone only" strategy to achieve a close second.

Final Notes

ARRL HQ received 1582 phone entries, consisting of 1244 single operators, 321 multiops, and 17 check logs. Of the single ops, we had 82 QRP, 806 low power, and 356 high power entries. The Participation in November Sweepstakes (PINS) program remained popular with 829 stations requesting and earning their pins. There were an amazing 372 clean sweeps reported.

Special thanks to Assistant Contest Manager Bev Fernandez, N1NAV, for her help in preparing the results. Mark your calendar now for the 1998 ARRL November Sweepstakes: CW is November 7-9 and Phone is November 21-23.

SOAPBOX

Where were the VEs? (K1JN). On Sunday I was able to shake the ice off the 20-meter antenna and signals got 20 dB louder. Spent two days looking for VY1JA and found VE8AV instead (KQ2M). An ice storm Friday coated all of my antennas. SWR way up and ice never thawed all weekend (W1WEF). I tried to give out as many MEs as possible, and was rewarded with a clean sweep (WILEE). Finding a calling spot on 80 or 20 was just a little bit harder than finding a parking space in midtown Manhattan (WB1GQR). I thought we were in a major solar flare until I found I was connected to the 80-meter Beverage antenna. Duh! (KT1M). My Yagis for 40-10 meters were iced up the first night, and I spent the rest of the time trying to catch up (WQ2M). I was determined to participate again, even with time and antenna restrictions. SS continues to be my favorite contest (AJ2U). SS has always been my favorite contest, but this year I decided not to take it too serious. I focused on having fun. My score may be less than last year, but it was much more enjoyable (AA4LR). I have been licensed for 50 years, and never realized 4 watts could be so much fun (W2VMX). This is the best contest I've worked in several years. Everyone was courteous and operated in a manner for which they can be proud (WB4VIM). The conditions were not as good as last year. Thanks to all who turned their beams and stuck with me (WB6FZH/KH6). QRP from a mountaintop is the only way to go (N6MU at N6NB). Wow, this is more fun than should be humanly allowed! I thought 10 meters would be a factor this year, maybe next year (N7VY). We tried a new strategy this year, get another operator with normal hearing. It worked (K7IR). This was my first SS and it was lots of fun. I was glad to hear

ARRL November Sweepstakes Plaque Winners

Listed below are all of the plaque category winners. Only plaques with sponsors will be awarded. If you have won a plaque category without a sponsor, you may purchase your own plaque. The cost is \$50 per plaque. If you, your club, or business is interested in sponsoring any of the unsponsored plaques call Billy Lunt, KR1R, at ARRL HQ.

Category	Winner	Donor	Category	Winner	Donor
Overall			Northwestern Division		
QRP Phone	N6MU (at N6NB)	QRP-ARCI	QRP Phone	K7RAT (N6TR,op)	Steve Morris, K7LXC and Tower Tech
Low Power Phone	K4VUD		Low Power Phone	K7RI	
High Power Phone	WP2Z (K4MA,op)	Carl Cook, AI6V	High Power Phone	KK7A	
Multioperator Phone	W3GH	Central Texas DX & Contest Club	Multioperator Phone	K7IR	
Atlantic Division			Pacific Division		
QRP Phone	NQ2RP (WB2VUO,op)	Maryland Miliwatt Club	QRP Phone	WN6W	UHM Ham Club
Low Power Phone	W2TZ	Potomac Valley Radio Club	Low Power Phone	N6NF	Jim Hollenback, WA6SDM
High Power Phone	K3MM	North Coast Contesters	High Power Phone	N7TR	Richard Hallman, N7TR
Multioperator Phone	N3RR	Mark Sickmeyer, KB3GJ, Memorial	Multioperator Phone	K6R	
Central Division			Roanoke Division		
QRP Phone	KX9X		QRP Phone	W3MGL	
Low Power Phone	KK9A	Society of Midwest Contesters	Low Power Phone	KZ2I	Jim Stevens, K4MA
High Power Phone	K9BGL	Society of Midwest Contesters	High Power Phone	N4UK	Potomac Valley Radio Club
Multioperator Phone	W9SMC		Multioperator Phone	K1GG	Shenandoah Valley ARC
Dakota Division			Rocky Mountain Division		
QRP Phone	N0UR	Tod Olson, K0TO	QRP Phone	WB0GAZ	
Low Power Phone	N0AT		Low Power Phone	K7CF	
High Power Phone	W0SD (WD0T,op)	Minnesota Wireless Assn, W0AA	High Power Phone	K7UP (W5FX,op)	
Multioperator Phone	K70R	Minnesota Wireless Assn, W0AA	Multioperator Phone	W0MU	
Delta Division			Southeastern Division		
QRP Phone	W5JAY		QRP Phone	K4Vfy	
Low Power Phone	N4ZZ	Pat Sonnier, W5WMM	Low Power Phone	KD3GC	
High Power Phone	KF4ZR		High Power Phone	W4AN (K4JNY,op)	
Multioperator Phone	K5MDX	Twin City Ham Club	Multioperator Phone	W4WA	
Great Lakes Division			Southwestern Division		
QRP Phone	KA4TEU		QRP Phone	N7VY	Ray Day, N6HE and Donna Day, N6HTH
Low Power Phone	W8MJ	Mad River Radio Club	Low Power Phone	AD6DO	
High Power Phone	K8DX	North Coast Contesters	High Power Phone	K6LL	
Multioperator Phone	W8JJ		Multioperator Phone	W6UE	
Hudson Division			West Gulf Division		
QRP Phone	KD2TT	NJ-QRP Club	QRP Phone	W0CO	
Low Power Phone	KE2DX	Troy ARA, N2TY	Low Power Phone	WX0B	D. Craig Boyer, AH9B
High Power Phone	W2RE	John Hulst, K2WJ	High Power Phone	N5KO (at N5RZ)	Leo E. Oylar, Jr, W0GOW—W5RO Memorial
Multioperator Phone	KY2J		Multioperator Phone	NA5B	Oklahoma DX Assn
Midwest Division			Canada		
QRP Phone	W0EJ		QRP Phone	VE6JY	
Low Power Phone	WN0G		Low Power Phone	VE4GV	
High Power Phone	K4VX (K9PG,op)		High Power Phone	VE6TC	D. Craig Boyer, AH9B
Multioperator Phone	W0R		Multioperator Phone	VE3DBF	
New England Division			Special		
QRP Phone	N1TM	QRP Club of New England	Low Power Rookie Phone	K6YES	Rob Kaufmann, VE4GV
Low Power Phone	KZ1M				
High Power Phone	WB1GQR (W1SJ,op)	Ed Parsons, K1TR			
Multioperator Phone	K1NG				

other YL ops (N7SG). This was the first year I was able to contest from my new basement. The past contests were done from an old shed full of mice. I had to fight them off with a BB gun between contacts (WA7HQD). It was nostalgic radio, the glow of the tubes and the heat from the old Collins and Drake, just like it was 33 years ago (WA8RCN). In 8 years

I didn't hear the Yukon station, that is until this year. I couldn't believe it when VY1JA called CQ on 20 meters and was not being answered. I finally worked the YT section (WA1MKE9)! Nothing can match that one moment of excitement, when that final section answers your CQ for a clean sweep (W0GG). Guest operating at VY1JA is an SS contesters' dream.

The aurora Saturday was a VY1JA nightmare. It was great to hear the excitement the call generated, especially when handing out someone's first sweep (VY1JA, K6LA, op). If you've never operated SS, give it a try. You never know, you may just find there's a lot of fun and a number of challenges on the bands during this event (KA0RNY).

Scores

Within each Section, scores are listed in descending order, by power categories, followed by multioperators. Line scores list call sign, score, QSOs, multipliers, hours, class (Q = QRP, A = Low Power, B = High Power). Bold denotes Division leaders.

1				2			
Connecticut				Eastern New York			
N1TM	39,760	284	70 24 Q	K1AM	193,550	1225	79 24 B
W1PG	27,336	201	68 18 Q	W1OP (K1PLX,op)	117,468	753	78 24 B
W1VT	1,080	30	18 2 Q	K1MO	47,400	300	79 11 B
W1RPG	48,096	334	72 15 A	W1RFQ	1,458	27	27 2 B
W1ECH	42,196	274	77 9 A	K1NG (+K1HG,K1SD)	285,190	1805	79 24 B
W3EP	35,112	228	77 12 A	N1NRK	43,624	287	76 18 A
WA1UUD	34,304	256	67 24 A	AA1II (+N1QVJ)	39,270	255	77 15 A
K1LEE	32,110	247	65 20 A	Vermont	16,170	105	77 11 A
N1XQ	29,440	230	64 8 A	WB1GQR (W1SJ,op)	294,828	1866	79 24 B
KE1AU	22,836	173	66 8 A	Western Massachusetts	193,866	1227	79 24 A
WA1ZEK	20,160	160	63 13 A	KM3T	79,474	503	79 11 A
W1SAM	19,080	159	60 7 A	KA1DNDX	11,800	118	50 24 A
K1JN	16,500	150	55 9 A	N1ZQH	11,660	106	55 9 A
N1HPF	13,464	102	66 8 A	K1KBU	11,520	120	48 6 A
N1XF	11,712	121	48 13 A	KA1PU	7,360	80	46 13 A
N1KLB	9,464	91	52 24 A	K1KNQ	113,498	737	77 15 B
K1KAV	8,944	104	43 12 A	KV1W	28,124	178	79 10 B
N1VIM	8,820	105	42 14 A	W1YK (KA1WIG,KA1YTR,W1NT,N1LSH,N2YHK,N3VUN,N1PFC,N1PKO,ops)	164,952	1044	79 24 B
KQ2M	274,920	1740	79 24 B	W1OJ (+KZ1O)	158,000	1000	79 13 B
WA2GO (at K1K)	274,920	1740	79 24 B	KB1BUF (NE1C,N1FIY,N1MPP,N1XBV,ops)	60,214	391	77 24 B
WA1RR (N1HRA,KA1VMG,KB1LN,KA1RL,K1GOX,ops)	253,748	1606	79 24 B	KT1M	50,616	333	76 12 A
W1WEF	185,288	1046	79 15 B				
N1NQD	63,450	423	75 24 B				
AK1N	50,244	318	79 24 B				
W1QK	122,500	775	79 16 B				
W1AW (W1VT,N1JQ,AA1GW,N1NAV,N7IAL,ops)	107,440	680	79 24 A				
W1NG	50,086	317	79 6 B				
N1MD	32,700	218	75 24 B				
N1MM	19,920	166	60 4 B	KT1W	54,864	381	72 20 A
N1KWJ	9,936	108	46 24 A	W1XZ	33,880	220	77 9 A
Eastern Massachusetts				NS1Z	13,400	134	50 5 A
K1EP	80,712	531	76 22 A	N1MHB	11,236	106	53 8 A
K1HT	65,208	429	76 10 A	W1LEE	90,692	574	79 22 B
W1TE	55,300	350	79 10 A	AA1KS	39,050	275	71 8 B
WG1Z	52,976	344	77 18 A	N1NUA (+W1DLC)	38,912	256	76 21 A
KC1SQ	38,000	250	76 9 A	W1XV (+WA1UKV)	22,940	185	62 12 A
K1UR	31,872	249	64 14 A	K1MY	12,482	79	79 10 B
W1T10	17,112	138	62 6 A	New Hampshire			
W1TI	10,500	105	50 6 A	WA1S	139,464	894	78 16 A
KD1FF	9,408	112	42 7 A	K1EPJ	65,254	413	79 20 A
K1UCA	7,968	83	48 14 A	AA1QD	43,950	293	75 15 A
N1DS	7,560	90	42 24 A	AE1T	14,872	143	62 5 A
W1CI	6,968	67	52 24 A	N1OEZ	12,870	117	55 11 A
W1TUM	234	13	9 1 A	W1UN	630	21	15 1 A
K5MA	163,956	1051	78 14 B	WA1LJD (+WA1LNP)	174,590	1105	79 24 B
W1XS	33,654	213	79 10 B	N1TX (+AF1T,WA1VKO)	164,952	1044	79 19 B
W1OHM	33,232	248	67 10 B	KC1F	124,346	787	79 9 B
W1MX (NJ3C,W1GSL,ops)	81,928	532	77 24 A	N1HKO	124,188	786	79 22 B
WZ1K (+N1DPV)	40,348	262	77 21 A	WC1M	91,956	582	79 11 B
NZ1Q	36,652	238	77 12 B	WK1P (+N1KWF,WA1ZYX)	88,006	557	79 24 B
AE1M	25,754	163	79 15 B	K1OZ	21,736	143	76 10 A
K1TH	24,644	202	61 6 B	N1TZW	15,340	130	59 8 B
W1AF (KB1XQ,N1QZY,K1CN,ops)	18,304	143	64 6 A	Rhode Island			
N1OEF	17,400	145	60 14 A	K1VSJ	88,638	561	79 20 A
W1FY (W1EOW,N1LOO,KA1AXY,N1XAN,N1XAG,N1XAS,ops)	14,200	142	50 24 A	N9LYE	32,640	240	68 24 A
W1DCY (+N1GRC)	11,270	115	49 13 A	AB1BX	9,400	100	47 24 A
Maine				K8BGZ	8,800	100	44 12 A
KD1O	56,592	393	72 24 A	AA1RI	5,508	102	27 13 A

K2SX	79,158	501	79	12	B
KZZZ	17,380	110	79	12	B
N1CC	16,758	147	57	2	B
K2ONP	14,382	153	47	3	B

KY2J (+NAZN)	250,272	1584	79	24	B
K2DS (+WA2ZJQK,AA2GS,AA9KT)	242,056	1532	79	24	B
W2SX (K1APRT,K3NC,ops)	145,236	35	78	18	B
N2POS (+N2PEN,WB2FOB)	117,800	775	76	24	B
W2GDJ	112,970	715	79	20	B
KB2U5W (W2WC,K2C,ops)	80,364	543	74	24	B
N2SA	49,588	322	77	14	B
N2USN (+N2WUB)	41,734	271	77	22	A
KB2KDY (+KB2ZJ,KB2SRC)	26,268	199	66	20	A

Northern New Jersey					
K8XR	95,748	606	79	24	A
K2WA	60,600	404	75	21	A
N2TBP	25,080	190	66	24	A
WB2RQX	24,490	155	79	24	A
KB2U2D	24,382	167	73	19	A
WA2LXE	24,318	193	63	23	A
K1QD	21,330	135	79	22	A
N2ULW	20,838	151	69	24	A
K2BOG	15,738	129	61	24	A
N3RB	15,250	125	61	9	A
N2N9R	10,706	101	53	4	A
WA2ASQ	10,340	110	47	9	A
WA2OHL	10,340	110	47	9	A
W2LRD	9,516	122	39	14	A
W2OU	9,516	122	39	14	A
WA2BKN/T	36	6	3	3	A

N2NC	207,928	1316	79	18	B
KB2POP	135,090	855	79	20	B
W2QM	126,558	801	79	19	B
N2CFD	63,022	254	79	22	B
W2HCA	53,088	336	79	17	B
W2UDT	51,680	340	76	9	B
WA2YBI	34,484	233	74	19	B
NN2T	32,390	205	79	24	B
N2XI	26,228	166	79	10	B

AB2DE (+K2CAVE,N2KPB,KB2IZB,N2BIM,K2WK,N2ZAS)	61,446	399	77	24	A
N2KJM	58,656	376	78	13	A
N2TTT (+N2HNN)	54,362	353	77	23	A
AJ2U	44,506	289	77	14	A
W2YR	40,332	113	74	8	A
K2ZA	19,434	123	79	12	A
WA2ZGO	12,168	78	78	6	A
N2XSE (+N2ZBN)	10,800	108	50	10	A

Northern New York					
WZ2T	26,840	220	61	20	Q
NT2W	22,050	175	63	11	A
W2NNY (WB2BAU,op)	9,752	106	46	11	A
N2UUX	8,200	100	41	5	A
NA2A (at W2DES)	66,220	430	77	16	B
WB2KLD	23,850	159	75	24	B
K2NNY (K2DB,K2CS,K2DV,N2TWI,KB2JUV,ops)	164,004	1038	79	24	B

NYC-Long Island					
KD2TT	79,200	528	75	18	Q
N2TO	14,100	141	50	12	Q
N2KPY	13,260	130	51	6	Q
AA2VK	588	21	14	2	Q
KS2G	78,694	511	77	14	A
W2BZH	19,296	144	67	10	A
N2YIB	13,160	140	47	23	A
WA2RXS	8,320	104	40	7	A
KB2TGW	5,700	75	38	3	A
N2KPY	714	21	17	2	A
N12P	48,840	330	74	16	B
K2AU	42,408	279	76	18	B

K2DO (+N2GA)	143,052	917	78	24	B
KG2MR (+KG2M0,KB2REZ,K2CA2L)	82,160	520	79	24	B
N2JIX (+KF2ER,N2NSM,N2MEZ)	61,408	404	76	23	A

Southwestern New Jersey					
K2UT	55,056	372	74	16	A
K2MK	35,466	257	69	8	A
W2ORA	27,064	199	68	12	A
WB2KOH	18,666	153	61	24	A
W2ADUE	10,246	109	47	7	A
KC2AZU	5,670	81	35	14	A
K2AYKN	4,224	64	33	8	A
KD2P	1,944	36	27	2	A
KD2AE	1,768	34	26	4	A
N2MM	254,538	1611	79	23	B
KD2KS	144,096	912	79	22	B
AB2E	74,102	469	79	9	B
WA2YSW	25,956	206	63	21	B
K2KFO	12,190	115	53	9	B
W2TV	52,140	330	79	15	A
KB2MMI (+WA2CUE)	44,022	319	69	24	A
W2BE	40,132	254	79	15	B
K2VS (+K2VT)	10,028	109	46	8	A

Western New York					
K2QRP (WB2VUO,op)	32,154	233	69	16	Q
K2FR	25,200	200	63	24	Q
W2TZ	186,576	1196	78	24	B
NA2Q	95,550	637	75	19	A
W2KA	85,636	542	79	13	A
W2MKW	32,628	222	72	15	A
W2SU	24,424	172	71	24	A
W2LU	22,440	170	66	8	A

KF2VX	22,046	151	73	14	A
WB2AIV	20,532	177	58	18	A
K2OE	17,520	157	57	13	A
AA2WS	16,888	149	56	24	A
N2LOQ	14,382	141	51	12	A
WB2WPM	13,888	124	56	24	A
KF2SJ	11,322	111	51	9	A
WA2RZJ	11,200	110	50	24	A
W2EZ	10,976	112	49	9	A
AE2T	10,816	104	52	3	A
W2UJ	10,340	101	42	2	A
NE2W	4,256	76	28	3	A
W2LC	243,516	1561	78	24	B
N2PFS	120,260	859	70	10	B
N2CU	54,576	379	72	6	B
W2VZ	41,904	291	77	16	B
K2MP	31,008	204	76	7	B
W2OP	30,660	219	70	10	B
NA2X	21,754	149	73	9	B
W2YRH	21,328	172	62	10	B
KD2A	10,246	109	47	5	B
W2RW	9,400	100	47	3	B
WB2ELW (K2C,ops)	8,664	114	38	24	B
WB2WJ	2,800	50	28	3	B

W2SEX (K2ZR,K2YW,KB2SCN,N2WU,ops)	127,190	805	79	24	B
AF2K	127,190	805	79	24	B
W2CM (K2BJ,WA2ZSC,ops)	100,776	663	76	21	B
AA2MU	84,846	537	79	17	B
K2IWR (AB2BA,KA1EIX,KB2AED,KB2FA,K2DN,N2MRE,N2ZPT,WB2OSM,WA2TOL,ops)	38,280	272	70	15	B
KV2W (+N2VEB,N2HCO,KG2BW,W2NXP,ops)	35,186	241	73	19	A
W1TY	19,750	125	79	14	A
KE2VB	15,168	96	79	7	A

3					
Delaware					
W3DA	58,144	368	79	13	A
N9GG	34,398	273	63	24	A
N8NA	20,952	194	54	24	A
N3BZE	7,912	86	46	21	A

W3PP	215,670	1365	79	22	B
W3TT	44,304	284	78	8	B

Eastern Pennsylvania					
WY3A	28,000	200	70	11	Q
N3IGA	25,192	188	67	14	Q
K3MQH	166,136	1093	76	24	A
K2LNS	88,948	601	74	16	A
KE3MX	56,848	418	68	12	A
W3SSS	34,894	239	73	17	A
K2CD	30,600	225	68	8	A
KB3AGZ	29,640	190	78	18	A
W4WFD	24,400	200	61	16	A
N3RM	16,432	104	79	7	A
NM3O	11,564	118	49	24	A
KE3TC	11,564	118	49	24	A
W3EYF	10,368	72	72	10	A
WB4CVH	9,324	111	42	24	A
W4B4	7,980	103	30	2	A
W3TH	5,992	107	28	3	A
KB3BPS	3,150	45	35	5	A
AG3J	2,592	48	27	8	A
WB1J	8	2	2	1	A
NE3F	126,400	800	79	13	B
WB3FAA	66,044	418	79	13	B
WB3EMG	63,516	402	79	16	B
K3AR	58,982	383	77	6	B
AA3TT	21,594	183	59	5	B
WY3T (+N3JRX,N3VMT,N3KGL,KA3PVA,WR3H)	1090	79	24	B	
K3SV	102,646	637	79	14	B
K3WW	74,260	470	79	24	B
N3IHS	21,014	133	79	19	A
N3ZKK (+N3XZO)	12,508	106	59	12	A
KC3M	12,482	79	79	5	A
WF3T	3,264	51	32	2	B

Maryland-DC					
WA3DUR	24,960	192	65	18	Q
K1HTV	168,324	1079	78	24	A
W3KN	102,770	650	79	19	A
W3UJ	73,520	510	76	19	A
KM3V	50,244	318	79	14	A
N3HUV	38,610	297	65	14	A
KA3TGY	28,696	211	68	14	A
WA3YSW	25,668	207	62	12	A
WB2DNE	23,302	191	61	12	A
N3WD	22,378	167	67	15	A
KA3TCC	18,120	151	60	13	A
W3CP	16,524	153	54	10	A
AA3NB	11,300	113	50	7	A
N3YHC	9,064	103	44	9	A
K3SA	7,200	100	36	1	A
N3JXA	6,132	73	42	9	A
N3SDE	4,200	65	34	2	A
W3TMM	3,400	50	34	2	A
WB2BZR/S/T	2,356	62	19	24	A
WB4FDT	1,720	43	20	2	A
K3MM	294,670	1865	79	24	B
K3ZO	281,892	1807	78	24	B
N3OC	189,800	1209	79	24	B
N3HXB	155,344	1022	76	24	B
KE3Q	147,098	931	79	8	B
N3II	131,930	835	79	24	B
W12T	102,336	656	78	13	B
W3EKT	97,500	650	75	22	B
N3NT	62,624	412	76	24	B
K1DOV	60,600	404	75	9	B
K3IXD	56,848	374	76	10	B
N3UN	52,896	348	76	24	B
W3ZZ	39,456	274	72	4	B
W3FOE	10,464	109	48	12	B
W3GN	9,408	98	48	5	B
N3RR (+K7AU,K4VV)	192,918	1221	79	24	B
W2GG	119,606	757	79	20	B
WR3L (+W0CN)	115,498	731	79	23	B
K3DI	103,490	655	79	19	B

W3EAX (NF3I,K1RA,KD3FG,KF4UNA,AA3QE,N3UBM,ops)	92,500	595	78	24	A
W3LM (+W3LW,W3DAD,WB3HUP,WK3X,KA8PY,N3LDY)	79,000	500	79	15	B
K3RA (+N3RNV)	78,144	528	74	9	A
W3XY	74,576	472	79	24	B
N3IG (N3SLN,KC3VW,WA0QII,NDR,ops)	66,300	425	78	16	A
K3LYW	55,458	359	79	9	B
K3PZN	44,092	302	73	17	A
K3HH	32,264	218	74	8	A
W3UR (+SM7PKK)	5,944	67	41	2	A

Western Pennsylvania					
WA3WAW	32,004	254	63	16	Q
K3CR	184,702	1169	79	24	A
WA3HAE	142,832	904	79	24	A
AD3J	84,530	535	79	13	A

KBSFET	30,222	219	69	14	A
KJ5RC	13,298	109	61	14	A
KJ5XQ	10,120	110	46	24	A
K5MDX (W0SL,KCSWQ,KR4QQ,N5FG,ops)	284,558	1801	79	24	B
KC5KDP (+K8R0L,K851X,K85VLA,KC5YKR,KC5ZIX,AC8BN,N5KKG)	46,934	313	75	15	A
N5UE (+K85VCC,KC5ZJA)	23,712	152	78	19	A
New Mexico					
K5OI	18	3	3	24	Q
K7UP (W5FX,op)	303,992	1927	79	24	B
K2EI	272,866	1727	79	24	B
N5IA	172,326	1119	77	16	B
K5AM	58,752	432	68	6	B
WB5TGL	21,840	168	65	16	B
W5JOV	12,960	120	54	4	B
KK5OV (+K85ZSK)	9,450	105	45	19	A
North Texas					
W8CO	53,290	365	73	24	Q
WD5ICQ	9,064	103	44	10	Q
WX0B	191,812	1214	79	24	A
W5MYA	150,072	962	78	19	A
WD5K	133,352	844	79	24	B
K5KJ	121,660	775	79	18	A
N5ST	101,120	640	79	21	A
K5PN	99,864	657	76	24	A
N5ZT	65,860	445	74	24	A
N5WD	59,760	415	72	24	A
W5RNF	48,576	352	69	17	A
K5WO	32,294	241	67	11	A
KM5HL	25,212	191	66	24	A
K5SNT	20,280	156	65	9	A
W5KN	18,688	128	73	19	A
W5GN	15,370	145	53	4	A
KC5BFM	13,300	133	50	16	A
K5WAT	11,000	100	55	11	A
KC5OZT	10,920	105	52	16	A
K5DS	10,848	113	48	12	A
KC5JAJ	10,500	115	46	24	A
KM5GJ	7,954	97	41	24	A
KD5BVK	6,734	91	37	24	A
KC5LDN	5,994	81	37	7	A
W5DLM	5,440	68	40	4	A
WB9AJJ/5	612	18	17	3	A
K5RX	305,098	1931	79	24	B
W5FO	207,612	1314	79	24	B
K5ZO	167,638	1061	79	20	B
K5RA	144,300	925	78	23	B
K5LP	121,818	771	79	14	B
K5RT	100,944	701	72	12	B
WB5B	96,792	571	76	12	B
W5PLN	75,000	475	65	9	A
N5KB	54,144	376	72	15	B
AB5C	32,864	208	79	11	B
AA5NT	23,858	151	79	15	B
K6AZA	22,176	198	56	24	B
W5GVP	16,416	114	72	15	B
N5KM	12,870	117	55	4	B
K15PA	12,096	108	56	7	B
N5TJ	123,240	780	79	24	B
K5MR (+W5WV)	100,886	691	73	8	B
N5LS (+W5GYS1)	91,244	578	79	16	B
K5DM (WB0NSA,KC5KDM,ops)	86,268	553	78	22	A
W5ASBU (KC5AMA,N5VHO,KK5KN,KC5KNJ,KC5KNI,KB2LNR,KD5CAA,KD5ANZ,ops)	51,150	341	75	22	A
Oklahoma					
K5KA	104,754	663	79	14	A
N5RXF	86,688	602	72	15	A
KK5XJ	14,250	125	57	13	A
W5WYN	14,220	90	79	10	A
KB5BOB	140,146	887	79	18	B
K5YP	57,378	393	73	24	B
K5YAA	12,960	133	48	24	B
N5B (+W5A0,K5TT)	266,704	1688	79	24	B
WD0GT (+W5B0W,N5P)	54,912	352	78	24	A
N5SAM (+K85BRX)	32,912	242	68	24	A
KB1ZQ (N1PLN,N1XSF,ops)	28,400	200	71	24	A
South Texas					
KZ5MM	126,400	800	79	18	A
W5MN	114,076	722	79	24	A
NX5M	100,330	635	79	14	A
W5RQ	72,380	470	77	14	A
N5RP	69,616	458	76	9	A
AF5Z	68,432	492	73	14	A
KZ5E	38,766	273	71	14	A
K5LZO	38,550	257	75	13	A
K0BCN	34,650	275	63	13	A
K5CWR	34,484	233	74	24	A
K5OE	30,246	213	71	18	A
KK5KQ	30,030	231	65	17	A
N5KAE	29,434	199	74	16	A
N5RLQ	16,356	141	58	10	A
KB5ZFO	14,210	145	49	6	A
W5ASSA	12,154	103	59	24	A
N5RBC	9,680	110	44	10	A
K15OS	9,090	101	45	6	A
W5ABR	9,064	103	44	4	A
W5VQ (N5IV,op)	8,132	64	64	4	A
WA9VLI	7,020	78	45	5	A
WB5RUS	7,222	6	6	1	A
N5LT	313,156	1982	79	24	B
N5JA	307,784	1948	79	24	B
K5TR (+W5KFT)	306,046	1937	79	24	B
N5DU	224,676	1422	79	24	B
W5ASP	224,360	1420	79	24	B
KT5I	210,930	1335	79	24	B
K5DX	128,282	833	77	24	B
N5LZ	115,498	731	79	19	B
W5SB	115,192	729	79	19	B
NA4M	72,380	470	77	9	B

W5PDW	21,576	174	62	2	B
KB5RUG	16,380	105	78	17	B
N5WR	9,270	103	45	24	B
W5XD	8,938	109	41	3	B
W5NR	2,704	52	26	3	B
K5NZ (+K5C8AK,KM5AO)	258,804	1638	79	24	B
K5DU (+K5NA,W5QSG)	216,934	1373	79	24	B
N5XU (KASW,ZZ,KM5FA,ops)	182,964	1158	79	24	B
N5TU	74,102	469	79	12	B
N5MT	57,564	369	78	12	B
W5AC (+K5C5YS,W5CA,W5DZ,KC5HHN,AB5HO)	46,860	426	55	24	B
KK5LO	39,342	249	79	21	A
K5IX	29,230	185	79	24	A
N8ECC (+K5J5QB,K5KQZ,KD5AY)	20,096	157	64	15	A
NJ1V (+N5RHJ)	12,482	79	79	16	B
W5AJ	12,482	79	79	8	B
West Texas					
K7QQ	27,650	175	79	24	A
N5LUL	4,818	73	33	6	A
N5KO (at N5RZ)	318,054	2013	79	24	B
N5DO (+K5FD)	204,452	1294	79	24	B
WB5M	164,162	1039	79	20	B
N5MI (+K5EG)	5,264	356	72	17	A
N5ZMP (+N5XXD)	21,120	160	66	11	A
6					
East Bay					
AC6DR	32,368	238	68	24	A
W6G (WB6DSV,op)	11,832	116	51	4	A
K6UC	11,750	125	47	24	A
KM6F	7,224	86	42	10	A
WB6GY	163,372	1034	79	23	B
NH7AW/6	159,372	984	79	20	B
N1CS	101,948	662	77	13	B
N6UUG	61,056	424	72	10	B
WX6M	41,076	326	63	4	B
W6ATV	29,862	189	79	24	B
AF7Y	13,970	127	55	24	B
WA0YQM	11,858	121	49	10	B
N6RO (+K3EST)	244,800	1550	79	24	B
K6AW (+KX7M)	213,458	1351	79	24	B
K6ZM (WB6MZO,KD6RNM,AF7Y,ops)	176,904	1134	78	19	B
WB6RG	145,518	921	79	14	B
Los Angeles					
N6KZ	26,532	198	67	12	Q
K6RO	176,802	1119	79	24	A
K06ES	50,976	354	72	22	A
WA7BNM	50,204	326	77	10	A
K6ZCL	35,376	268	66	22	A
WA6BIL	34,160	244	70	11	A
K6TV	30,384	211	72	15	A
W6RNFU	27,150	181	75	20	A
W3SE	25,102	163	77	15	A
AB6YA	18,476	149	62	17	A
K06PS	17,388	161	54	23	A
WB6CGZ	15,730	143	55	8	A
N6IC	11,904	93	64	7	A
N7KFL	11,766	111	53	7	A
W6FFH	9,200	100	46	20	A
KF6FJG	3,152	104	44	15	A
KK6GS	9,152	104	44	15	A
KC6X	200,502	1269	79	23	B
KN6DV (KD6J,op)	159,738	1011	79	24	B
N6UY	14,628	138	53	11	B
W6UE (N7UE,N6LL,K6ASR,N9YS,ops)	266,546	1687	79	24	B
W6S7	67,308	426	79	10	B
K6TSG (WB6JL,W6SNG,KE6WUE,W6KAT,K6TOS,ops)	53,105	393	68	24	A
WB6RCL	13,230	105	63	5	A
N5BF	6,800	100	34	7	A
Orange					
AD6D0	215,966	1367	79	24	A
AA6PW	77,760	540	72	14	A
K6YES	71,994	507	71	12	A
AC6WD	62,780	430	73	24	A
WM7D	51,504	348	74	24	A
K6WS	40,800	300	68	11	A
K6NR	27,560	212	65	7	A
K06XJ	22,814	187	61	10	A
N76KHJ	21,428	157	59	13	A
W6NT	15,158	143	53	15	A
KE6YQM	13,056	128	51	24	A
K16X	11,960	115	52	4	A
KN6WL	10,400	104	50	10	A
K6UIZ	9,984	104	48	6	A
K6BVI	9,288	108	43	10	A
WA6JZQ	9,152	104	44	11	A
W1HIJ	9,030	105	43	7	A
WA6GFR	9,000	100	45	6	A
KE6WLLT	1,276	29	22	15	A
N6HC	160,370	1015	79	23	B
W6TKV	138,840	890	78	20	B
N6ER	249,280	1552	70	8	B
K2PLF	47,304	324	73	14	B
W6HT	10,290	105	49	4	B
W6NR (+N6NAS,K6CF,N6VHF)	254,064	1608	79	24	B
W6EEN (+W6AQ,K17XW,W6ORD)	244,428	1547	79	23	B
K6HRT (+N6VZ,N6XS)	166,216	1052	79	24	B
N6RT	13,884	89	78	6	A
Pacific					
WB6FZH/KH6	1,200	30	20	24	Q

KH7R (W3PL,op)	301,392	1932	78	24	B
A16V	261,456	1676	78	24	B
Sacramento Valley					
K06CX	19,470	165	59	16	Q
WX6V	149,152	944	79	24	A
N6KD	111,650	725	77	24	A
K6BP	37,728	240	61	21	A
K06QR	28,960	190	75	22	A
N6JM	25,668	186	69	24	A
WA6ST	6,656	104	32	19	A
W6YQQ	3,456	54	32	24	A
AA6EW	448	16	14	24	A
N6IFW	48	6	4	6	A
W6V (N6IG,op)	309,680	1960	79	24	B
K6KM (NU6,ops)	201,924	1278	79	24	B
K16CG	167,076	1071	78	23	B
K6BZ	160,054	1013	79	13	B
K6PLJ	159,580	1101	79	16	B
AC6DG	100,804	638	79	19	B
W6IXP	46,760	334	70	18	B
K16T	34,650	231	75	9	B
K6VX	22,436	142	79	9	B
K6R	254,696	1612	79	24	B
W6R (N6ZS,N6SNA,ops)	221,358	1401	79	24	B
K6C (AA6WJ,KN6OX,ops)	173,800	1100	79	24	B
K6OM (K6GV,K6OM,K6RJ,ops)	139,830	885	79	24	B
K6G (+K6SG)	77,064	494	78	19	B
WR6WR (N6WR,K6FO,KF6BS,ops)	65,968	434	76	24	B
AD6CT (+K6DWTY,KE6YJ,W2KWN,KF6IZU,K06PO,KF6EAA,KF6EAC,KF6LDV,KD6LLE)	5,280	66	40	8	A
San Diego					
W6CN	32,700	218	75	23	Q
WN6K	79,032	534	74	21	A
W6JVA	26,740	191	70	10	

N8MR	35,250	235	75	12	A
W8KZM	32,660	230	71	9	A
N8CNI	31,380	217	73	17	A
N8NX	31,284	237	66	7	A
K8BG	30,550	235	65	15	A
N8EN	30,056	221	68	14	A
W8BYPY	26,934	201	67	14	A
W8TJQ	24,888	204	61	16	A
W8BFO	24,576	192	64	13	A
W8BKZ	23,760	186	66	11	A
N8BK	23,430	187	65	15	A
W8SL	21,646	137	79	20	A
W8DKZO	21,420	170	63	10	A
K8CV	19,680	164	60	24	A
KE8U	17,360	124	70	14	A
W8DBJ	17,808	159	56	13	A
W8RO	16,002	127	63	12	A
KE7JA	15,960	140	57	10	A
N8ZFH	15,768	146	54	15	A
AA8TK	15,370	145	53	7	A
W8EGI	15,120	135	56	6	A
K8BX	14,976	104	72	21	A
N8KCG	14,136	114	62	14	A
K8EN	13,824	107	61	16	A
A8SN	12,760	116	55	24	A
W8WQ	12,672	132	48	20	A
W8DBH	12,482	79	79	8	A
N8TDE	12,152	124	49	13	A
K8JN	11,556	107	54	17	A
K8BSBX	11,000	108	50	19	A
W8PDI	10,002	100	51	15	A
N8UUS	9,504	108	44	7	A
K8BTXZ	9,460	110	43	24	A
K8CFXR	9,200	100	46	12	A
W8QJY	6,480	81	40	4	A
W8PPJ	5,880	70	42	9	A
W8BHN	3,658	59	31	6	A
K8BVX	220	11	10	2	A

K8MR	88,296	566	78	7	B
AC8E	34,960	230	76	6	B
K5ZG	18,422	151	61	24	B
K8GAP	16,380	117	70	11	B
N8EW	13,542	111	61	11	B

N8CWU (+N8UDT)

ND8L	80,496	516	78	21	B
	73,628	466	79	17	A

W8TC 68,098 431 79 14 B
K8XC 63,200 400 79 9 B
K8LU (W8UM)K8DZ,W8BNA, W8OUC,ops) 63,200 400 79 21 B

K8SCH (W8AEVZ,N8KOJ,AA8BK, AC4XS,N8VCL,W84SUV,N8FWA, KCHOS,K8CDGB,K8BIZ,W8AM, K8LXK,N8CVJ,K8HMQ,N8ZZW,K8CFNA, K8GAP,ops) 60,830 385 79 21 B

W8M8W (+K8ZMY,AA8JK) 59,408 376 79 24 A
K8OU 44,398 281 79 13 B
W8SJU (+W8PFA) 38,710 245 79 24 B
N8TR 37,446 237 79 12 B
W8OS 37,130 235 79 9 B
W8GVB (K8SE,N8KE,K88YVA, K8BOS,K8BUT,W8DNEE,N8RI, K8BDP,K8BOTZ,N8WOB,K8YVG, K8BCNP,N8QKW,ops) 32,862 208 79 21 A

W8MBI (K84YD,K88YV,AA8RZ, W8LE,ops) 32,802 231 71 23 A
W8BK 32,390 205 79 21 A
KF8UN (+W8SSB,K8BIHR) 31,442 199 79 23 A
W8BSTO (+N8PPI) 29,610 235 63 11 B

N8CPA (N8VQJ,N8VJA,W8D8LQH, K8BSFF,ops) 27,832 196 71 19 A
KG8QL 21,646 137 79 16 A

West Virginia

WA3SE5/8	91,316	617	74	22	A
N8II	63,510	435	73	9	A
WA8VV	45,000	300	75	24	A
N8YYS	32,640	255	64	14	A
K8J8	26,908	217	62	19	A

K8OQL 158,000 1000 79 21 B
W8ZA 86,640 570 76 19 B
K2UOP/8 57,150 381 75 24 B
K3JT 54,020 370 73 7 B
N4ZR 8,568 102 42 24 B
W8PT 124 72 16 B

K8WTV (+N8VCF,KV8S,K8BAJH,N8FMD) 253,116 1602 79 24 B
N8RAT (W8WV,K8BUJX,ops) 91,324 578 79 24 B
K8AGOH (+K8BEM) 29,870 215 69 23 A
AA8UL 21,120 160 66 24 A
WA8ZDL (N8HTT,ops) 18,170 115 79 21 B

9

Illinois

KX9X 81,844 518 79 24 Q

KK9A 212,036 1342 79 24 A
W9RM 156,736 992 79 24 A
N2CKZ 99,372 637 78 24 A
W9DCIR 93,536 592 79 21 A
W9GKA 57,152 376 76 21 A
AA8D 53,720 340 79 14 A
N9MSG 52,136 362 74 17 A
K9JE 52,136 343 76 15 A
K9BF 47,888 328 73 20 A
N4SI 47,400 300 79 24 A
K9HJ 37,808 278 68 16 A
N0EPT 34,500 250 69 20 A
N9VYA 33,410 257 65 24 A
N9VLL 32,368 238 68 24 A
W9ROVV 31,820 215 74 24 A
N9JJ 23,460 170 69 5 A
N9NK 22,484 146 77 12 A
K9BCYL 22,440 170 66 11 A
W9HL 21,294 169 63 15 A
W9ACCC 19,642 161 61 8 A
KA9FAJ 17,596 166 53 20 A
KG9GK 17,160 132 65 24 A
W9DEJK 15,540 111 70 15 A
W9IB 15,476 106 73 18 A
K0ZTI 15,120 108 70 15 A
AA8UO 13,992 132 53 11 A
W9BZP 12,920 108 60 16 A
W9LND 12,400 100 62 4 A
AA8DM 12,168 117 52 24 A
W9UIH (W0TPO,ops) 11,956 122 49 11 A
N9KCS 11,280 120 47 7 A
AA9F 11,136 96 58 6 A
W9VA 11,000 110 50 3 A
K9LFR 10,506 103 51 5 A
AA9LS 9,450 105 45 7 A
W9CA 8,906 73 61 12 A
K8PHAY 8,316 99 42 24 A
KY0Q 7,540 110 34 4 A
K9NA 7,480 64 43 8 A
W9FXA 5,378 57 34 A
N9TQU 5,354 57 31 7 A
W9DJD 2,520 45 28 6 A
KA9IQW 828 23 18 5 A

K9BGL 246,638 1561 79 24 B
K9LJL 232,992 1474 79 24 B
WA9TP 190,390 1205 79 16 B
N2BJ 163,056 1032 79 16 B
K9CC 163,050 1087 75 20 B
K9PW 149,760 960 78 18 B
KI9A 136,670 865 79 23 B
WE9A 127,506 807 79 19 B
NA9A 93,220 590 79 14 B
N8STL 80,988 386 79 16 B
K9BG 57,534 363 79 7 B
W9QA 52,256 368 71 3 B
K9NR 47,716 302 79 11 B
N9OGE 45,904 302 76 19 B
W9GIG 39,658 257 79 16 B
K9LUN 33,095 233 71 9 B
K9HUN 32,072 211 76 16 B
AA9VR 26,390 203 65 18 B
K9IL 18,476 149 62 4 B

N9YCT 17,228 146 59 18 B
KG9AV 14,416 136 53 24 B
KG9N 8,588 113 38 24 B

W9SMC (N9VVV,KF9YT,N9BR,ops) 222,464 1408 79 24 B
W09S (+AA8RL,W8BJNZ) 121,344 768 79 24 B
K0HMO 98,750 625 79 18 B
K9MOT (N9KNS,N9EP,AA9AE,KA9NQG, N9JUC,K9JK,K9RR,K9SA, WA9DLB,ops) 82,056 526 78 24 B
W9EM (+K8BLPM,AA9QT) 68,856 453 76 24 A
NW9V (+N9PQD) 52,540 355 74 24 A
K9KJ (+N9YJZ) 46,866 321 73 10 B
N9THC (+N9TQZ) 44,800 320 70 24 A
N9LCR (+N9LXC,N9YSE,N9URUC, AA9GQ,ops) 39,500 250 79 22 B
N9JF (+K89JUZ) 34,188 231 74 13 A
K9BAR (K9JO,K9WE,N9GCH,N9VZA, K89X8,N9WJZ,ops) 18,564 119 78 24 A
WD9GGY 11,224 122 46 6 A

Indiana

W9UR 27,200 200 68 9 Q
WDZ 19,140 165 58 10 Q
K9DIY 9,800 100 49 10 Q

N9VT 114,392 724 79 24 A
W9AU 112,420 730 77 21 A
KE9I 95,116 602 70 17 A
WT9U 64,820 463 70 24 A
WA1MKE/9 60,344 397 76 22 A
K9WX 47,656 322 74 17 A
K9VW 46,664 307 76 24 A
N9PW 32,632 228 72 24 A
K9FUP 32,160 240 67 12 A
K9IG 27,136 212 64 5 A
WZ9A 21,216 156 68 18 A
N7IN 19,200 160 60 24 A
W9KID 15,930 135 59 10 Q
W4WQD 11,040 115 48 9 A
KF9YH 6,136 59 52 24 A

K80C 160,844 1018 79 19 B
K9RU 106,650 675 79 15 B
N9QC 65,550 437 75 11 B
K9XJ 63,674 403 79 14 B
W9RE 61,600 400 77 24 B
W9JOO 32,494 211 77 24 B
NE9O 29,640 228 65 8 B

N9FD (+N9JZ,K9D9JZ) 29,140 235 62 16 B
W9VCF (W9G5,N9VM0,ops) 18,000 150 60 9 A

Wisconsin

N9NE 28,080 216 65 10 Q
N9CQ 20,886 177 59 6 Q
W9JAB 13,328 136 49 18 Q

WA1UUJ 126,588 822 77 24 A
W9FZ 83,600 550 76 23 A
K89AMG 85,824 387 76 21 A
K9ARF 43,680 280 78 23 A
AA9TB 43,216 292 74 20 A
K9CAN 30,800 200 77 10 A
W9FBC 28,980 230 63 12 A
N9WPR 21,830 185 59 8 A
AA9FW 17,160 132 65 12 A
N9WAQ 13,780 130 53 3 A
W9ZC 9,890 115 43 11 A
W9BPRG 9,540 106 45 5 A
W9B9WJ 6,560 82 40 4 A

W9EV (at W9JA) 158,158 1001 79 24 B
N9UA 67,620 483 70 8 B
W9XT 65,664 432 76 7 B
WA9KVE 56,658 399 71 19 B
N9PQU 23,700 150 75 15 B
NE9U 10,472 119 44 24 B

W9JBF (W9BUJ,KA9WJN,N9FH,ops) 193,076 1222 79 24 B
K9G9G (+K9EJN) 116,220 745 78 24 B
N9XX 32,074 203 79 8 A
W9BQR (+K9BJW,W9LNL,W9IM, W9NPR,K89VA,AA9SE,ops) 25,800 215 60 24 B
K9PZK (K9BQJ,K9BQK,K89ROO) 25,800 215 60 24 B
K9IA (+W9D9HY) 21,560 140 77 13 A

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Colorado

W0BGAZ 98,550 675 73 24 Q
K0FRP 72,656 478 76 21 Q
K0RI 68,952 442 77 17 Q
N0KE 31,640 226 70 10 Q
KI0I 12,168 117 52 12 Q
K1EQA 7,008 70 13 Q
KI0G 4,704 84 28 8 Q

W0AH 162,582 1029 79 18 A
N4VI 60,444 438 69 18 A
WA0ZTI 35,880 276 65 21 A
W0ZA 35,190 255 69 14 A
KI0JZ 28,044 245 57 13 A
W0ETT 23,040 192 60 11 A
K0BYGD 22,302 189 59 17 A
W0BHZL 18,460 142 65 5 A
N0NR 17,248 154 66 8 A
AB0GO 15,184 146 52 11 A

NZIC 290,878 1841 79 24 B
KG0ZI 218,400 1960 79 23 B
W0GG 155,788 986 79 23 B
KG0AS 153,036 981 78 24 B
K9MWM 53,992 397 68 9 B
W0GAM 41,712 264 70 10 B
N0HF 28,512 216 66 10 B
KF0LA 15,950 101 75 15 B
N0LER 1,440 30 24 5 B

W0MU (+W0BWL) 285,348 1806 79 24 B

K0DU (+K0UK,K0CL,N0ZA) 276,026 1747 79 24 B
N0RAB 55,300 350 79 12 B

lowa

W0EJ 34,816 256 68 10 Q
W0BB 5,940 110 27 11 Q

W0NG 140,140 910 77 24 A
KN0G 63,080 415 76 22 A
AA0MQ 54,386 383 71 20 A
K0RX 51,264 356 72 24 A
K0VSF 41,272 268 77 24 A
W0V0 40,690 313 65 14 A
NE0P 35,964 243 74 23 A
KA5WV 28,334 209 63 12 A
AA0A 14,852 94 79 17 A
KG0WU 11,250 125 45 12 A
N0IXY 9,360 104 45 7 A
WA0KHF 4,960 80 31 6 A
K0EVC 4,690 67 35 13 A

K0FG 117,710 745 79 21 B
W0VFO 31,824 204 78 18 B
W0PPF 27,776 217 64 21 B

K0INR 23,100 150 77 14 A

Kansas

W0MW 112,788 723 78 17 A
KA0RNY 64,148 406 79 22 A
W0B0TJ 52,560 360 73 17 A
N0ZHA 34,840 260 67 17 A
KG0UA 23,760 165 72 13 A
K0RY 20,328 154 66 9 A
K0GGL 18,300 150 61 11 A
KA0EIC 15,250 125 61 13 A
W0X0U 14,850 165 45 24 A
N0ZCU 14,300 130 55 11 A
N0LJR 12,654 111 57 5 A
KG0VA 10,058 107 47 8 A
K0BJ 10,032 114 44 4 A

W0EJ 126,242 799 79 17 B
K0FJ 71,148 462 77 19 B
W0BWM 11,872 112 53 24 B

K0WA AB0S,W0CEM,ops) 293,406 1857 79 24 B
W0WH (+N0TYJ) 62,094 393 79 17 A
W0MI (AC0E,KA0RID,N0LXR,N0CPC,ops) 54,750 365 75 22 A
W0AQ (+N0GST,K80RWI) 47,144 332 71 22 A
AA0YA (+N0JGJ) 33,500 250 67 24 A
KA0ITA (+N0JJO) 26,112 204 64 13 A
KA0BHO (+KA0BAT,N0YUR) 16,244 131 62 11 B
KD0G (+N0ISA) 10,170 113 45 7 A

Minnesota

N0UR 40,600 290 70 12 Q
WA0BVW 18,644 158 59 13 Q
N0KK 18,468 162 57 9 Q
KG0XK 2,542 41 31 10 Q

N0AT 166,140 1065 78 24 A
AC0W 148,994 943 79 24 A
N0HJZ 77,924 506 77 11 A
K0PC 51,120 355 72 14 A
W0RDK 45,440 320 71 19 A
W0ZD 31,688 233 68 6 A
KA0ZP 16,224 156 52 24 A
W0MNN 15,984 148 54 24 A
K0BJDJ 13,312 128 52 11 A
W0OR 13,176 122 54 4 A
N0ZBN 10,058 107 47 18 B
WA0V0V 9,030 105 43 6 A
K0TG 5,280 66 40 2 B

N0IJ 200,818 1271 79 20 B
K0HB 178,382 1129 79 20 B
K9WIE 41,236 338 61 4 A
N0YC 31,672 214 74 11 B
K0AD 22,914 201 57 4 B

KT0R (+K0OB,K0MX) 286,770 1815 79 24 B
KR0B (+N0BKL,AF9T,KS0T,K0JB, K0BQA) 214,564 1358 79 24 B
W0EJ (K0BUD,N0WFKJ,K0GDK, N0KBD,N0YVJ,K0GST,N0YH, K0EJ,N0MQG,K0AD,K0B0T, W0GM,WA1GWE,N0IZ,W0DFW,ops) 109,152 758 72 23 B
W0NE (+K0NY,K0B0R,K0B0SA, KI0F,KE0X1,K0B0YU,K89PJN) 83,314 541 77 24 A
W0GJ 54,194 343 79 20 B
K0JE (+K0JA)52,896 346 76 23 B
W0SW (K0IUC,K0B0MS,N7QM,W, N0GCN,N0ZHI,W0BMA,N70AB,ops) 27,600 230 60 16 A
K0VPR (+K0G0A,K0CRN) 22,040 145 76 17 B
K0CC 18,900 120 79 17 A

Missouri

N0EID 11,900 119 50 8 Q
K0HOF 75,152 488 77 19 A
KF0OV 72,170 465 79 24 A
K0PTE 72,364 458 79 21 A
KK2G 55,056 372 74 12 A
KI0UO 53,900 350 77 13 A
W0ARDV 46,008 324 71 20 A
K0QAK 45,298 319 71 24 A
W0XFF 42,600 284 75 13 A
N0ZOH 33,902 259 67 15 A
K0B0XP 23,364 177 66 22 A
W0B0LU 20,286 161 63 11 A
N5RNU 12,446 127 49 24 A
WA0IYV 11,336 109 52 3 Q
W0B0FV 11,328 118 48 9 A
K0JPL 6,800 100 34 6 A
K0JPL 6,728 98 34 6 A
NS0B 6,440 70 46 24 A

K4VX (K9PQ,op) 278,554 1763 79 24 B
W0TT 70,596 477 74 7 B

