Results, 1989 ARRL November Sweepstakes

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Contest Manager Assistant Contest Manager

The ever-so-popular November Sweepstakes kicked off with the CW SS on the weekend of Nov 4-6, followed two weeks later with the phone SS on Nov 18-20. Conditions were superb and activity was great with 1822 reported entries. John, KC3M, expresses, "Great sweepstakes! Excellent conditions! I had a ball, I just wish that I could have found VE8 and VI." Neil, WB6VKN, hadn't "competed in SS for years and had a ball!" Bob, KG5OE, "worked 62 sections on 40-10 meters using an 80-meter dipole. Fantastic!" Van, WC5D, worked "75 sections in 9 hours." Lamond, WX7L, reports, "The contest was great fun! We had a blast! The bands were great. The Swan 350 ran well. The only bad thing was all the voice processors."

Bob, W2XM, conveys, "I feel 'born again.' After 23 years out of contesting and essentially 13 years away from CW, I now enthusiastically embrace the operating aspects of our hobby. Oiling the parts won't work; I need a major overhaul!" Newcomer Ron, N5NAQ, finds "there is a world of difference between the SS and Novice Roundup. It was an interesting experience." There were a number of "first timers" who tried SS this year. Tom, N6SSQ, was one of them, and adds, "This was my first experience with contesting and I had a lot of fun! I can hardly wait until SS '90!" John, W6FAM, exclaims, "This was my first SS contest. I'm hooked." Roy, KB5ILS, ran a father-son multiop station, and remarks, "My son and I had a great time. This was our first Sweepstakes. We were quite thrilled to score 77k points."

Bob, NQ1R, alleges that "the number of contacts you make is directly proportional to the number of pizzas ordered every hour!" On the other hand, Tom, WO7Y, claims that on phone "sunspots and 10-meter Novices sure change your contest strategy."

Many stations tried the new on-line contest program *NA* designed by Dave, K8CC, for the November Sweepstakes and a few other contests. This software is similar to the popular *CT* program designed by Ken, K1EA, for DX contests. There are many computer programs available today that perform all of the contest tasks, neatly wrapped into one package. There are also many others designed to execute only one or two specific functions, such as duping and logging. Victor, K1JUL, used his computer during SS and reports, "Great contest! The contest software let me know exactly how I was doing and pushed me to my first low-power 100k effort. I'll be back next year." Scott, K5TA, simply says, "Three cheers for real-time computer duping!"

Clean sweeps were a bit hard to accomplish this year because Hurricane Hugo totaled many stations in the Caribbean and the Southeast corridor of the US, and the California earthquake took a number of Bay Area stations off the air.

When all the dust settled and the logs were checked, Trey, WN4KKN, guest operating at N5AU, was the clear single-operator high-power CW winner, scoring 179k points. Dave, WOØG, was only 5k behind in second place with 174k points. George, WØUA, operated at KØRF and scored 171k points for third place high-power. In the low-power category (less than 150 watts), Randy, KØEU, took first place, scoring 148k points. Ralph, N5RZ, finished in second place, scoring 144k points and Carl, W2TZ, was third with 139k points. Les, KØSCM, last year's second-place finisher, took top honors in the CW-QRP category for 1989, scoring 110k points. Bill, KVØI, was second with 104k points and Randy, AA2U, was third with 94k points. The crew at K5LZO finished in first place, multioperator, scoring 167k points. Last year's 10th-place finisher, NY6C, bettered their score and moved up the ladder to second place multiop with 147k points. The gang at ABØS finished third, scoring 146k points.

Last year's second-place finisher, Dan, W7WA, guest operated at W7XR and took the 1989 top honors in the single-operator high-power phone category, scoring 362k points. Dave, K6LL, finished second, scoring 359k points and Bob, K3EST, guest operating at W6GO finished third with 348k points. Randy, KØEU, not only won single-operator low-power CW, but also finished first among the single-operator low-power phone entrants, scoring 227k points. Tom, WO7Y, finished in second place with 206k points, and Jim,

Single Operator High Power Top Ten

CW Call	CW Score	Phone Call	Phone Score
N5AU (WN4KKN/5,op)	179,360	W7XR (W7WA,op)	362,516
K4VX/Ø (WOØG,op)	174,800	K6LL	359,264
KØRF (WØUA,op)	171,000	W6GO (K3EST,op)	348,194
W7NI	170,544	KØRF (WØUA,op)	314,776
K3LR	167,656	WM5G (KRØY,op)	314,160
K6LL	166,944	WBØO	312,928
K5TA	164,312	K7UP (AA5B,op)	311,080
K5ZD	163,650	K4XS	307,076
W6GO (N6IG,op)	163,248	K5TA	302,764
VE7CC	163,096	NR5M	277,970

Single Operator Low Power Top Ten

CW Call	CW Score	Phone Call	Phone Score
KØEU	148,960	KØEU	227,920
N5RZ	144,298	WO7Y	206,400
W2TZ	139,350	KK7A	205,282
K8BL	136,192	KVØI	203,280
K2ZJ	132,300	VE4GV	198,352
K4XU	131,400	N6HC	196,042
K4XS	131,176	VE5ZX	194,864
N6PN	131,100	K7LXC	194,348
WBØO	130,650	KØSCM	180,272
K7OX	130,240	W1FEA	180,120

Single Operator QRP Top Ten

CW Call	CW Score	Phone Call	Phone Score
KØSCM	110,100	K7SS	130,130
KVØI	104,550	KØFRP	122,512
AA2U	94,950	AA4RX	102,718
KØFRP	92,056	N6WMF	82,688
W6IO	88,200	KG5U	81,776
NØAX/7	86,728	WA7PVE	72,854
AC5K	79,032	WAØVBW	70,224
KG5U	78,280	WØYHE	60,900
N9NE	76,516	KH6CP/1	57,300
KH6CP/1	74,740	WB6JJE	55,350

Multioperator Top Ten

CW Call	CW Score	Phone Call	Phone Score
K5LZO	167,808	AI7B	323,092
NY6C	147,136	NK7U	267,368
ABØS	146,100	KW8N	260,106
K5CM	145,160	K1NG	252,406
WDØT	143,032	K5CM	251,790
W2GD	137,560	KF6OG	245,476
WF5E	131,868	K9RS	242,242
N2NU	129,150	WØCEM	232,694
WA2STM	128,042	KRØB	231,308
W8EDU	124,184	W5EHM	226,996

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Affiliated Club Competition

Club	Score	Entries	CW Winner	Phone Winner
Unlimited Category				
Society of Midwest Contesters	4,777,564	63	K4VX/Ø	AA9A
Medium Category				
Minnesota Wireless Assn	4,599,712	47	KØDD (WBØADO,op)	NØAT
North Texas Contest Club	4,537,996	38	N5AU (WN4KKN,op)	WM5G (KRØY,op)
Murphy's Marauders	3,648,148	44	K1TO	N8RA
Yankee Clipper Contest Club	3,052,780	37	W1PH	KA2AEV
Potomac Valley Radio Club	2,855,326	33	KE3Q	K3ZO
Frankford Radio Club	2,374,726	41	KZ2S	K3ZA
Mad River Radio Club	2,144,068	25	WM4T (KU8E,op)	N8CXX
Northern California Contest Club	1,918,644	19	N6RO	NC7K
Southern California Contest Club	1,737,036	12	K6LL	K6LL
North Coast Contest	1,625,966	20	K3LR	K3TUP
Rochester (NY) DX Assn	1,244,820	20	W2TZ	W2HPF
Motor City Radio Club	1,134,516	40	K8SB	KA8GOM
Albany ARA	957,678	33	N1CC	N1CC
Dixie DXers Contest Club	844,836	12	AA4NC	AA4NC
Kansas City DX Club	808,998	6	KBØG	KMØL
Texas DX Society	749,228	9	W5ASP	W5ASP
Willamette Valley DX Club	742,728	4	AI7B	
Western Washington DX Club	732,690	13	NØAX/7	N7LOX
South Jersey Radio Assn	727,840	19	K2YY	K2YY
Grand Mesa Contesters	584,766	6	KJØG	NØZA
Northrop Radio Club	538,750	11	WA6BIL	K6HRT
Eastern Connecticut ARA	436,402	5	KZ1M	KZ1M
Western New York DX Assn	404,028	8	WB2ABD	W2RR
Clark Co (IN) ARC	378,124	7	NJ9C	NJ9C
Salt City DX Assn	377,474	3	K2ZJ	
Central Michigan ARC	364,414	12	W8TJQ	K8ZJU
Eastern Iowa DX Assn	348,320	4	KFØH	NØICI
Redwood Empire DX Assn	260,242	6	W2TZ	WA8LLY
West Park Radiops	244,476	12	W8PN	WD8AJF
Highland ARA	211,122	10	NS8G	WA8KIW
Hazel Park ARC	186,634	11		WD8S
Meriden ARC	68,020	3	W1KKF	N1GNV
Local Category				
Rubber Circle Contest Club	1,365,362	10	W7WA	W7XR (W7WA,op)
River City Contesters	1,324,916	7	W6GO (N6IG,op)	W6GO (K3EST,op)
New Mexico Big River Contest Club	1,165,218	7	K5TA	K7UP (AA5B,op)
Mile-Hi DX Assn	797,072	6	KØEU	KØEU
Overlook Mountain ARC	737,214	8	K5NA (W2JU,op)	WA2STM
Utah Contest Club	671,926	8	WE7B	WT7D
Lincoln ARC	604,692	5	KØSCM	KØSCM
ZYGO ARC	579,038	10	W1ECH	KA1MWX
Maui ARC	492,714	4	AH6AZ	K6GSS/KH6
Schenectady ARA	401,656	5	W2ARQ	W2ARQ
Central Arizona DX Assn	347,838	4	KY7M	KY7M
Reading (PA) Radio Club	335,274	3	KS3F	KS3F
Long Island Mobile ARC	319,950	5	K2AU	KS2G
Northern Rhode Island Radio Club	309,828	3		KC1CU
Arrowhead ARC	295,740	4	KSØT	KSØT
Ventura County ARC	286,140	3		K6VNM
Kettle Moraine Radio Amateurs	281,462	3	K9OSH	K9OSH
Rowan ARS	255,220	7	W8UT	N4QY
Valley Radio Club of Eugene	286,080	5	K7GDN	KA7SDW
Utica ARC	226,976	7	NA2Q	NA2A
Columbia ARC	223,214	3		KC4LSG/T
Burlington County RC	208,528	5	WB2UVB	K2KED
Penn Wireless Assn	196,462	3		K3TX
Sturdy Memorial Hospital ARC	186,066	10		K1ZZJ
North Florida ARS	161,526	3	N4UF	NU4Y
Falmouth ARA	149,788	4	K1BT	W2RKB
Radio Club of Tacoma	127,454	4	W7LKG	W7LKG
Tri-City ARC	97,112	6	KA5GIS/T	KQ1O
Warminster ARC	81,854	4	N3HKU	N3HKU
Jay Hawks ARS	81,694	6	NØFMR	NØHYG
Rip Van Winkle ARS	76,462	3	W2DW	WO2K
Radio Amateur Transmitting Society	75,418	5	W4AY (WA4ZZU,op)	AB4CR
North Texas High Frequency Assn	75,140	6		N5MUJ
Jersey Shore ARS	60,968	3	WB2DIN	K2RXN
Capitol City ARS	49,824	3		KA3TGY
University ARC	28,192	3		KB7N
Naked Chicken Contest Club	25,628	3	NJ1Q	NF1J

KK7A, was third with 205k points. In the phone-QRP category, Dan, K7SS, won first place, scoring 130k points. Al, KØFRP, was second with 122k points, and Fred, AA4RX, finished in third place with 102k points. There was no excuse for missing Oregon this year: The top two multiop stations—both from Oregon—made more than 3800 QSOs between them. The gang at AI7B took top honors in the phone multioperator category, scoring 323k points. NK7U and crew finished in second place, scoring 267k points. KW8N was third with 260k points.

Sixty-nine ARRL-affiliated clubs met the minimum requirement of having at least three log entries each in the Sweepstakes, and competed for gavels on three levels in the Affiliated Club Competition. The Society of Midwest Contesters (SMC) was the only club that mustered enough entries to make the unlimited category. SMC had 63 entries and an aggregate score of 4.7 million points to win the unlimited-club gavel. The Minnesota Wireless Assn moved up from third place last year to win the medium-club gavel in 1989. The North Texas Contest Club was right on their heels for a good second-place finish. In the local-club category, the Rubber Circle Contest Club edged out the River City Contesters for the gavel.

The November Sweepstakes is one of the most popular and fun League-sponsored contests—fast paced with lots of activity on both phone and CW. If you haven't tried the SS, you're missing a great contest. Give it a try in 1990. Watch for the rules in November *QST*. Thanks to Contest Assistant Mark R. Burke, KA1MIS, for help in preparing the results.

CW Division Leaders

Division	High Power	Low Power	QRP	Multioperator
Atlantic	K3LR	W2TZ	NG3K	N2NU
Central	W9RE	K4XU	N9NE	W9REG
Dakota	KØDD (WBØADO,op)	WBØO	N9CIQ	WDØT
Delta	N4ZZ	W5XX	NO5W	KI4UZ
Great Lakes	WM4T (KU8E,op)	K8BL	K8ATQ	W8EDU
Hudson	KZ2S	N2DU	AA2U	W2GD
Midwest	K4VX/Ø (WOØG,op)	NØXA (KØVBU,op)	KØSCM	ABØS
New England	K1TO	W1ECH	KH6CP/1	W1OP
Northwestern	W7NI	K7LR	NØAX/7	K7LED
Pacific	W6GO (N6IG,op)	W1FEA	W6IO	NY6C
Rocky Mountain	KØRF (WØUA,op)	KØEU	KØFRP	
Roanoke	AA4NC	N4ZR	KØEJ	K4IX
Southeastern	N4WW (KØLUZ,op)	K4XS	K4MF	
Southwestern	K6LL	N6PN	N7IR	W6SD
West Gulf	N5AU (WN4KKN/5,op)	N5RZ	AC5K	K5LZO
Canada	VE7CC	VE5XZ	VE3OOL	VE3ART

Phone Division Leaders

Division	High Power	Low Power	QRP	Multioperator
Atlantic	K3ZO	W2TZ	KD3KX	K2ZJ
Central	AA9A	WE9V	N9DHX	K9RS
Dakota	WBØO	KØHB	WØYHE	KRØB
Delta	W5WMU	W9OBF		W5GAD
Great Lakes	KB8TI (NØAON,op)	K8BL	AA4RX	KW8N
Hudson	KA2AEV	KD2TT	N2HIF	KY2J
Midwest	K4VX/Ø (WOØG,op)	KVØI	WAØVBW	WØCEM
New England	WB1GQR	KZ1M	KH6CP/1	K1NG
Northwestern	W7XR (W7WA,op)	WO7Y	K7SS	AI7B
Pacific	W6GO (K3EST,op)	W1FEA	N6WMF	KH6RS
Rocky Mountain	KØRF (WØUA,op)	KØEU	KØFRP	W7MR
Roanoke	K4PQL	N4AA	NU7F	N4QWL
Southeastern	K4XS	AA4LR	NP2E	NR4E
Southwestern	K6LL	N6HC	WB6JJE	KF6OG
West Gulf	WM5G (KRØY,op)	N5DO	KG5U	K5CM
Canada	VE7SZ	VE4GV	VE6SH	VE3XD

SOAPBOX

CW

The biggest thrill was having KP2W call me only to find he was in Georgia! (W1WEF). It was a great experience to operate from the newly renovated W1AW. The new operator positions are perfect. Unfortunately, S7-8 line noise on 20-10 meters kept me from copying many of the weaker QRP stations (K8HVT). Where were the guys with "check" from the eighties? Getting on lists? (AB1U). The flu overcame my desire to operate! (N1RC). May not seem like much of a score, but it was done in ten hours on 80 meters. I worked 23 QRP stations! (WA1HYN). It gets awfully lonely about 2300Z on a Sunday (NQ2D). I guess Hurricane Hugo made KP2 almost nonexistent (KD2BD). Now that I'm old enough for Medicare, it was time to authentically

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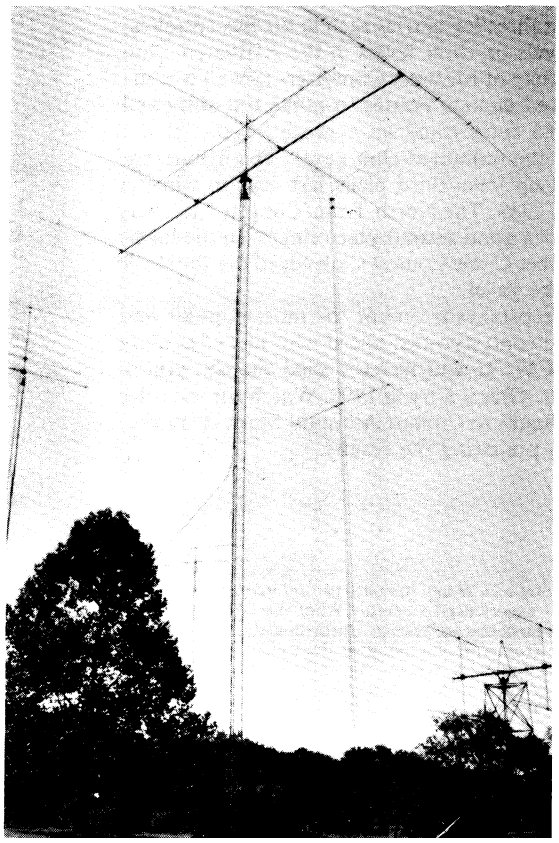
duplicate my initial effort as a teenager. I made the same number of contacts in the same sections at the same 5-watt level (W2NZH). I thought it would be fun to see what I could do with my old DX-60 Johnson T-R switch, crystals, HA5 VFO and my old Swan 350-C. It was fun! (K2ZR). This was my first single-op CW contest. I'll never do it again, until next year! What a great time! Not too bad for simple equipment and a computer (KD2WP). My age is 15, and this my first Sweepstakes. I enjoyed it very much. I hope to do it again next year (KD3KP). It was great fun to work my old classmate W3BGN from Novice school-check 55, and all the rest who once again state that CW is alive, well and going strong (W3CEI). I finally worked W1AW! (N3GOB). Where were Delaware and the VEs? There were many good ops from 6-land (N4UZ). I'm just not a CW op, but I had fun, and did better than last year—at least I'm improving! (KD3GC). Twenty minutes before the start of the contest my sister and brother-in-law from out of town showed up unexpectedly. The first hour and a half of the contest is my first rest period (WB4FOT). I finally convince Mom and Dad to take a trip out of town for SS CW weekend, and they take the coffee maker with them! What's a contester to do? (KJ4VH). A field fire next door took its toll. It's upsetting when a fireman asks for your hose! (N4XM). Sunday is murder, with everyone calling CQ and virtually no answers! (AA4NC). I lost all my antennas in the recent hurricane. I did get 40 feet of tower and a 5-element 10-meter Yagi up and decided to try QRP—it was hard! (KØEJ). I would have had more QSOs if it wasn't for a problem with my memory keyer (WB5M). I went to bed with 76 mults; no KP2 all Sunday. Tears came to my eyes Sunday when I smoked the linear (K1ZX). With two small children and a working wife, I rarely get the opportunity to make more than a handful of contest contacts; so it was a rare treat to spend more than three hours at the key during the SS (N4JEO). So many ops did a double take and asked for a repeat on my check of 37 (K4IX). I operated from temporary housing while preparing for a move to Arkansas. The drainpipe loaded up fine! (NJ1V/5). My first SS since my Novice days in the '70s! I'll be back next year in a bigger way, giving Louisiana to all (KG5VK). First 12 hours were my best ever—714 QSOs in 76 sections. The last 12 hours were a disaster! (AA5B). Outstanding contest, excellent conditions, great operators (W5UDA). A 3-month-old daughter and overtime at work can drastically reduce operating time! (KO9Y/5). Wish I had planned for more operating time. I had a lot of fun! Where was South Carolina? Still recovering from Hugo, I guess (K5GN). TVI problems with my neighbors forced my contest operations into my VW bus and out into the country. I had a great time! (N5JQM). First SS from W6 land. Eighty meters was quiet compared to W1. There was a lot of call-sign confusion. The bottom line was—I had fun! (W1RND/6). I would have done better but I had a mix-up with the babysitter and shorted myself the last six hours of the contest (N6NMH). Where were all the other QRPs? Boy, what big, fast guns! I got overpowered and writer's cramp! (K7SDW). I checked my CW and SSB logs—the average check for CW was 1965.4, for SSB it was 1967.8—the average license time was 23½ years (W6UQF). The contest is great—the paperwork is awful! (W6JVA). Wait 'til next year! (K6LRN). Where was all the activity? (N6IG). I only missed KP2 for multipliers. The contest is difficult from KL7 (WL7E). Sunday was very slow out West. I think the MUF was so high that the East Coast could work the Midwest on all bands and the Midwest guys pointed their antennas east, leaving us in the cold (K6LL). With the MUF so high, it was hard to work the close-in sections out here in the West (K7OX). I'm blaming any sloppy sending on my 17-month-old son, who kept grabbing the key as he sat in my lap (AA7BG). This is probably the first time in 25 years of SS that I missed the San Joaquin Valley Section (WO7Y). Am I alone out here? Would you believe I didn't work my own section in this one? No wonder people I worked were saying "Thank you, thank you, thank you!" (KS7T). I sure wish that I could copy CW better. There were many stations that I could hear, but could not copy at the speed they were sending (KA7YYR). It sure was fun, even though I had limited operating time and only one band. I'll be back full-bore next year (K6OMB). Was I the only one who missed a KP2? I will be looking for you in '90! (WE7B). Operated "Q" class. I had to turn the space heater on—didn't realize that the shack got so cold with the amplifier off! I now have a lot of respect for QRP operators (K7LXC). QRP was great fun. The W1AW op really worked hard to pull me out—thanks! (NC7O). The operation was humble here at this QTH with QRP and indoor antennas. However, the Nov SS is one of the best contests for anyone! (WK8V). I didn't plan on operating SS until the last minute. Congratulations to the guys for digging out my small signal—4 watts and a piece of wire. I couldn't find SJV, KP2 or VE8 for a clean sweep, but I was very pleased with my first QRP SS effort. I'm sure my neighbors enjoyed their entertainment systems! See you all next year (K8ATQ). I erected the long wire just two hours before the start of SS. I worked 75 sections running QRP. I guess it works! (WA8RJF). It was another fun contest! See you next year! (W8EAO). My TS-830S gave out just before the contest (W4NW/8). When I worked N1CC, we exchanged the same number! This was after I had worked K8CC, VE7CC and K1CC (K9CC). I worked my first VE8 ever! (WB8SVN). Trying to hold a frequency with "A" category is hard, but with "Q" it is especially difficult (K9JU). Wow! I could have had a VE8! (NJ9C). I'm afraid that I'm getting a little old to go the full time on contests any more. At age 72, the stamina is no longer there. I was surprised at the number of two-letter calls in the contest (W9HE). I set a new personal record; I had a broken keyer on 40, tuner on 80 and tranceiver on 20. This was my first contest where the equipment didn't outlast the operator (K9OSH). "CQ VE8, CQ VE8, CQ VE8" (WØUA). I worked my first SS in 1934, 55 years ago. I didn't call a single CQ—I didn't have a beam—I didn't have a linear—but I did have lots of fun (WØAWP). No more Mr Nice Guy! You can't hold a frequency on "A" power on 40 and 80, next year, I will dust off the old kW! My QSO rate went up at 2130Z after the football games ended! XL3HX had to call me several times before I realized he was a VE3 in disguise! Sorry, mate! AH2W sounded too good to be true, but he wasn't on Guam after all (KØHB). It seems trivial to worry about getting a sweep after what Hurricane Hugo did to our contest friends in the Caribbean. I had 340 band changes! (WOØG). I quit! Working single-operator without a computer is slow and tiring after 12 hours. I'll be back next year (KEØKI). My first entry in several years and it was lots of fun. I'm disappointed I didn't get a few more sections, but there is always next year (KØJV). I have been off the air for fifteen years. The last SS for me was 1970 from VE5US (VE5ZX). I didn't take off my housecoat all contest! I had fun! (VE6EZ). I had a great time at this contest, even though my code speed is no great deal. I did get the nerve to call CQ and, lo and behold, all the stations that answered me sent their replies at a speed I could copy. I had a great time and I intend to be at it next year (VE7GDS).

A view of the antenna farm at multiop-station K5CM.



Phone

Wow! First-hour successive QSOs with Santa Clara Valley, North Dakota, Puerto Rico, Alaska and NWT really started the sweep off nicely! It was a thrill to work them all with 100 watts and the "ECH Wires" this year (W1ECH). Why was Eastern Washington made a separate section when they seem to have the same number of hams as Albania? (AB1U). The antenna on 40 and 80 was a 58-ft random wire (NF1J). I operated the SS together with my nine-year-old son, KA1UKR. We didn't rack up much of a score, but had fun anyway (KA5GIS). My first contest was a lot of fun. I am nine years old (KA1UKR). We had a great time doing this contest as a father and son team—we enjoyed the time (N1GVM/T). This was my last contest in Maine before heading to Western New York. It was awesome! (N1ATN). Are there any stations in Eastern Washington? (K1MZB). The DVK—what a great invention! It was nice to work all states both weekends. Maybe I'll finally get the certificate (K6IM). Even with only 64 points, my personal goal of finally getting my last two states for WAS was achieved! This was my best contest yet! (N2FTR). Tornadoes in New Jersey? I'm a believer now! I broke my rotator, my 40-meter beam and my heart (WB2K). 10 meters was great—even from the East Coast! 20 meters sounded like 40 meters at times. I wish I'd started on Saturday! (KC3N). If I'd known I would come so close to a clean sweep, I would have operated longer and more aggressively! (KT2D). I had a great time! I picked up three new states on 10 meters (KB2GLO/T). I've been a ham for 19 years and I still haven't worked a VE8! One of these days I'm going on a VE8-pedition (WJ2O). Now I'm only three states away from WAS. What a great weekend! (N3GOB). Sweepstakes was great! This was my first HF contest and I was amazed how the bands cooperated with my QRP power. I would have never guessed that I could work 57 sections with 5 watts and a ground-mounted vertical! (KA3LUW). I had a lot of fun. I worked everything including six neighbors at the door (KA3ROF). This was my first try at QRP contesting. It took several attempts to make a contact, but overall the band conditions were good with strong signals. (N4UQD/T). This year's SS was certainly exciting! It's tough to get your wire antennas up a couple of hours before the contest starts, and it ends up taking longer than you expected (AA4LR). I worked four VE8/VY1 stations. They called me! (K4XS). This was the first time that I've been able to operate with a full-sized antenna in six years. I had a whole lot of fun (WB5M). It was another great SS contest. I worked 76 sections. Something to strive for next year (WA4VQD). I had RFI problems with the voice keyer, so I decided to do it the old-fashioned way. Good thing I had throat lozenges (KRØY). This was my last contest from my Northern Texas QTH. Look for me in Arkansas next year! Great contest! (NJ1V). I started the contest with a bad sore throat and couldn't finish. By Sunday night I was in bed with the flu. I really did enjoy the Nov SS! It was a great contest! It's the only place I know where you can work WAS in one weekend (N5MRX). This year I decided to spend the challenging hours running QRP, and I'm glad I did (N5JWL). Happiness is having NP2E (QRP) come back to your CQ at 2:44 on Sunday afternoon for section 77! (W6BSY). Following W9TKV around the band can be hazardous to your score (W6TKV). It seemed like there was more activity this year. Next year I'm going to run the high-power class (K6GSS/KH6). I spent the week before the contest adjusting my antenna to get the SWR down on 10 meters. I got it straightened out with just 10 minutes to spare. (N6VVK). I'm inevitably invited to some kind of social happening on contest weekends. When I advise the host why I can't make it, I find my sanity being questioned. Who cares? I don't know of anything that's this much fun! (AA7BG). Great contest! There was a lot of good competition here in Idaho. Hooray for 10 meters and a high sunspot

From May 1990 QST © ARRL

cycle! (KS7T). Wonderful 10-meter conditions! (W7YAQ). I had a 6.4% dupe rate! This was my first high-power SS—boy, what fun! See you next year! (NC7K). It's just more fun from the mobile (N9KS). See you next year! (WC7S). Best part of the contest was saying hello to old and new friends. The worst part were the conditions on Sunday morning (K7LXC). Murphy blew away my linear and remote antenna switch (NC8V). I met a few alligators, but most of the time my 100 watts to a loop or dipole got points from everyone I called (K8MZH). While I know I didn't win the contest, my pleasure comes from simply being there and being involved (N6UUW). Great conditions! It's not easy running them from Michigan (NØADN). This was the best SS in 25 years that I've participated in, because it's the first time I got a clean sweep! (WA8AQF). My parakeet enjoyed the contest, but he is not ready for contest exchanges yet (N9BBM). The highlight of the contest was contacting W1AW! (KB9BMW). First SS! I had a blast without killing myself! I worked 69 sections chasing after the Jubilee award before the year's end. I will be back next year (W6NIZ). There were no long lulls in activity! Hope to see everyone next year (WØCEM). I had a great time for my second attempt at the sweeps! Where was NWT? (KBØCWV). I had a grand time again. Where were the VE8s and Virgin Islands? This was the closest I've ever come to a clean sweep. A big thanks to all those good ops out there for pulling my QRP signal out of the mud (WØYHE). I haven't blown up anything in the past few contests—what a precursor for upcoming disaster (WOØG). It took me almost 3 years to get my WAS; then in this contest I worked all states on 20M (VE3NYT). I scouted the bands for the Virgin Islands and YU/NWT, but found nary a one (VE3ST). Oh, where were the Virgin Islands? I know NP2E was out there working QRP, but he didn't stay still and he never called me. Thanks to all the guys who got on Sunday afternoon and evening to give the SS stations those extra QSOs (VE5ZX). Contesters could only be heard here on 20M and 40M. The noise was high on 160M and 80M because of the disturbance. I enjoyed learning to use the new computer program for the first time (VE8CM).

Scores

CW scores are listed first, followed by phone. Within each call area, scores are listed by ARRL sections. Within each section, single-operator scores are listed first in descending numerical order, followed by multioperator scores. Each line score lists call sign, final score, number of QSOs, number of sections worked, hours operated and output power used (A = 150 watts or less, B = more than 150 watts, Q = 5 watts or less). For example, in Connecticut, K1TO worked 1,063 stations in 75 sections for a final score of 159,450 points. He operated for 24 hours and used more than 150 watts.

CW

1

Connecticut

K1TO	159,450-	1063-	75-	24-	B
W1WEF	148,650-	991-	75-	24-	B
K1XA	138,900-	926-	75-	24-	B
W1AW (K8HVT,op)	134,384-	908-	74-	24-	B
W1ECH	121,650-	811-	75-	24-	A
K1WB	111,958-	727-	77-	24-	B
K1TN	105,750-	705-	75-	20-	B
AA2Z	104,932-	709-	74-	15-	B
KI1N	102,930-	705-	73-	21-	B
K1RM	85,050-	567-	75-	12-	B
NC1E	84,952-	574-	74-	20-	B
K1BV	81,600-	544-	75-	15-	B
KR1S	79,424-	544-	73-	18-	B
KH6CP/1	74,740-	505-	74-	24-	Q
NX1Q	74,148-	501-	74-	24-	A
K1YR	71,284-	502-	71-	10-	B
NZ1M	67,306-	461-	73-	24-	A
W1KKF	65,320-	460-	71-	24-	Q
K2SX/1	64,824-	444-	73-	8-	B
KA1CI	62,308-	421-	74-	24-	B
NQ1K	61,912-	436-	71-	13-	B
NJ2L	61,202-	431-	71-	11-	A
W1BIH	56,100-	374-	75-	9-	B
K1DW	52,966-	373-	71-	12-	A
N8RA	50,552-	356-	71-	16-	B
AB1U	48,910-	335-	73-	12-	A
N1JW	46,200-	330-	70-	12-	A
KA1MWX	45,540-	330-	69-	20-	A
N6CY	44,982-	357-	63-	11-	A
KA1JAN	40,128-	304-	66-	13-	A
W1PMR	32,634-	259-	63-	13-	A
N4XR	29,200-	200-	73-	5-	B
WE6G/1	27,216-	216-	63-	24-	A
NF1U	24,000-	200-	60-	16-	A
KA5GIS/1	21,608-	148-	73-	18-	Q
K1CC	16,608-	173-	48-	3-	B
W1TKG	15,730-	143-	55-	10-	A
WA3VIL	15,680-	140-	56-	13-	A
NM1K	9,800-	140-	35-	10-	A
WA1STO	9,682-	103-	47-	5-	A
K1ZZ	3,960-	66-	30-	3-	Q
KA1CV	2,346-	51-	23-	11-	Q
WB1DQT	60-	6-	5-	1-	A

Eastern Massachusetts

KM3T	86,728-	586-	74-	21-	A
WA1OLV	83,472-	564-	74-	23-	A
W1KEE	80,850-	539-	75-	24-	A
K1XM	75,924-	513-	74-	11-	A
K1NTR	75,036-	507-	74-	15-	A
K1BT	70,956-	486-	73-	18-	A
AD1C	63,300-	422-	75-	16-	Q
K5MA/1	51,972-	366-	71-	8-	B
W1FM	50,954-	349-	73-	15-	A
N1DC	48,840-	330-	74-	20-	A
KB1VL	36,584-	269-	68-	13-	A
NB1B	30,256-	244-	62-	6-	B
K1UCA	26,426-	181-	73-	22-	B
K1SEC	25,350-	195-	65-	5-	A
KQ3S	24,700-	190-	65-	8-	A
N1RC	22,914-	201-	57-	6-	A
AK1J	15,660-	135-	58-	12-	A
K1ZZJ	10,736-	122-	44-	6-	A
WA1RCH	884-	26-	17-	10-	A
W1PLJ	120-	10-	6-	1-	B
W1AF (KA1s IBC,SSQ,UTE,KZ1W,ops)	12,036-	118-	51-	12-	B

Maine

KX1E	75,180-	537-	70-	22-	A
K1MZB	51,404-	362-	71-	8-	B
W9KDR/1	48,384-	336-	72-	20-	A
NX1T	42,366-	307-	69-	18-	A
WA1NDC	6,784-	106-	32-	20-	A
N1AFC	6,438-	87-	37-	7-	Q
WA1WPR	624-	24-	13-	11-	Q

New Hampshire

W1PH	120,176-	812-	74-	24-	A
K8LT	83,028-	561-	74-	13-	B
K1TR	75,888-	527-	72-	13-	A
NO1V	66,748-	451-	74-	20-	A
KC1F	61,904-	424-	73-	9-	A
WA1RLO	30,360-	220-	69-	15-	Q
W1UN	27,470-	205-	67-	10-	A
AC1J	10,810-	115-	47-	6-	A

Rhode Island

K1IU	147,896-	973-	76-	24-	B
KM1X	119,700-	798-	75-	24-	B
N1SW	119,700-	798-	75-	24-	B
K6IM/1	87,024-	588-	74-	18-	B
KA1DNB	58,464-	406-	72-	15-	A
K1VSJ	48,692-	329-	74-	12-	A
WA1HYN	41,400-	345-	60-	10-	B
W1RFQ	8,712-	66-	66-	6-	A
K2MN	900-	30-	15-	2-	A
W1OP (K1DS,N1AKO,ops)	38,912-	304-	64-	10-	B

Vermont

N4DW	90,592-	596-	76-	18-	A
WA1GUV	62,456-	422-	74-	22-	Q
K1IK	12,126-	141-	43-	3-	A
WA1QGC	10,918-	103-	53-	12-	A

Western Massachusetts

W2SC	134,550-	897-	75-	24-	B
KZ1M	111,300-	742-	75-	24-	A
KB2R	22,912-	179-	64-	12-	A

2

Eastern New York

K5NA (W2JU,op)	136,344-	897-	76-	24-	B
N2AZS	135,750-	905-	75-	23-	B
N1CC	123,000-	820-	75-	23-	B
W2ARQ	82,140-	555-	74-	24-	B
N2DU	73,500-	490-	75-	19-	A
N2HIF	59,340-	430-	69-	13-	A
K2UF	57,132-	414-	69-	20-	A
K2ONP	56,140-	401-	70-	11-	B
KN2Q	51,544-	379-	68-	13-	B
NW2J	49,140-	351-	70-	11-	A
W2XM	40,710-	295-	69-	14-	A
W2DW	39,192-	276-	71-	9-	B
AA2Y	25,870-	199-	65-	9-	A
KC2JG	18,212-	157-	58-	12-	A
WM2U	11,440-	104-	55-	11-	A
WA2YEI	10,200-	102-	50-	7-	A
KA2JKA	7,392-	77-	48-	7-	B
WM2Y	5,180-	70-	37-	11-	A
W2NRD	4,800-	60-	40-	6-	A
N2ILT	1,920-	48-	20-	2-	A
N2AIF	850-	25-	17-	2-	B
KA2HTU	72-	6-	6-	1-	B
KB2HUN	2-	1-	1-	6-	A
K2XA	2-	1-	1-	1-	B
WA2STM (+WB2Q)	128,042-	877-	73-	24-	B
WI2E (+KB2EMB,WI2N)	73,704-	498-	74-	17-	A

NYC-Long Island

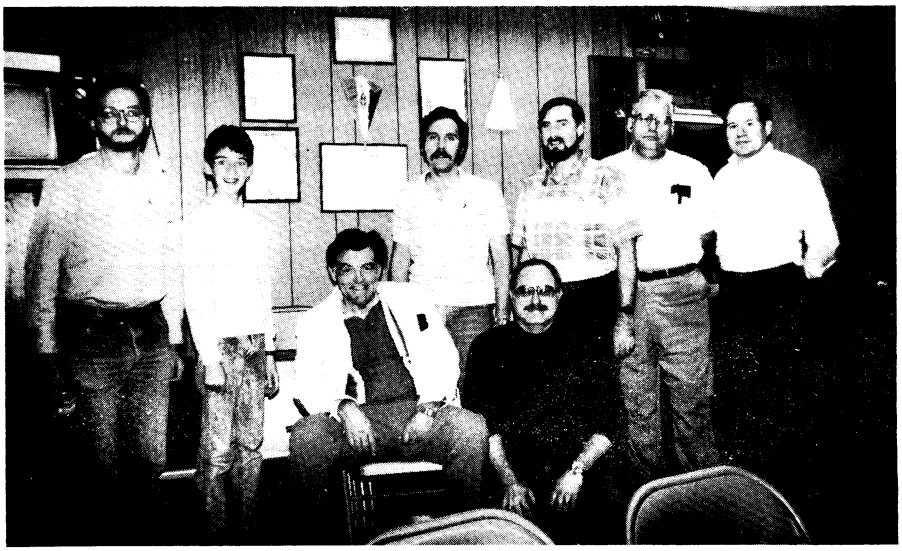
NQ2D	141,150-	941-	75-	24-	B
KD2RD	132,696-	873-	76-	24-	B
KC2FD	107,400-	716-	75-	24-	B
K2AU	99,150-	661-	75-	18-	B
KA2AEV	90,600-	604-	75-	15-	B
W2DX	40,200-	300-	67-	12-	B
W2KTF	31,850-	245-	65-	6-	A
K2HVN	26,412-	186-	71-	12-	A
AI2Q	17,056-	164-	52-	8-	Q

Northern New Jersey

KZ2S	161,700-	1078-	75-	24-	B
N2NT (KQ2M,op)	156,560-	1030-	76-	24-	B
W2RQ	152,608-	1004-	76-	24-	B
AA2U	94,950-	633-	75-	24-	Q
WB2EZG	77,532-	546-	71-	16-	B
W2HCA	61,500-	410-	75-	21-	A
KW4E/2	52,966-	373-	71-	14-	A
WB2FGZ	50,126-	353-	71-	23-	A
KT2D	39,618-	279-	71-	15-	A
WO2X	25,350-	195-	65-	15-	A
W2TI	20,296-	172-	59-	6-	A
KB2NY	6,392-	68-	47-	6-	A
WI2L	4,224-	64-	33-	6-	Q
W2JEK	2,220-	37-	30-	4-	Q
W2OJC	264-	12-	11-	6-	A
KQ2O	180-	10-	9-	1-	A
W2GD (+NET)	137,560-	905-	76-	20-	B

Southern New Jersey

K2YY	122,208-	804-	76-	23-	B
N2MM	114,760-	755-	76-	18-	A
K2PS	97,236-	666-	73-	24-	A
AB2E	69,058-	473-	73-	12-	B
W5KI	67,192-	454-	74-	19-	A
W2PAU	57,232-	392-	73-	14-	B
N2RF	49,728-	336-	74-	20-	A
WB2UVB	42,000-	300-	70-	16-	A
WB2DIN	39,902-	281-	71-	11-	A
K2MK	37,224-	282-	66-	12-	A
N2GUW	28,600-	220-	65-	13-	A
K2KED	22,156-	191-	58-	14-	A
N2EZ	20,184-	174-	58-	12-	A
K2HPV	14,964-	129-	58-	6-	Q



The gang at W5GAD. From left to right: Mark, WB9VTN; Tom, KB5KIX; Stan, N5OWW; Doug, WF5O; Ira, N5OGW; Joe, N5NOA; Joe, W5BQM; and Garry, KB5ENF.

Scott, K5TA, gave the NM multiplier to many.

From May 1990 QST © ARRL

W2EA 12,400- 124- 50- 5- A
KA2MSM 5,544- 66- 42- 6- A
W2NZH 5,408- 104- 26- 7- Q
N2CQ 5,258- 73- 36- 5- Q
K2LOO 4,836- 62- 39- 8- A
N2NU (+WA2IUO) 129,150- 861- 75- 24- B

Western New York

W2TZ 139,350- 929- 75- 24- A
K2ZJ 132,300- 882- 75- 24- A
W2HPF 115,588- 781- 74- 22- B
N2MG 108,750- 725- 75- 24- B
WJ2O 97,680- 660- 74- 24- B
K2UNR 89,836- 607- 74- 19- B
WA2EYA 85,104- 591- 72- 24- A
K2MQY 79,476- 537- 74- 22- A
WB2ABD 79,350- 529- 75- 14- B
W2RR (WB2YQH,op) 69,412- 469- 74- 15- B
KU2X 65,604- 462- 71- 16- A
K2ZR 62,308- 421- 74- 21- A
N2WK 54,760- 370- 74- 16- B
K2UC 51,688- 364- 71- 16- A
NM2J 47,144- 332- 71- 24- A
W2FR 42,048- 292- 72- 10- B
NE2W 30,012- 246- 61- 7- A
KD2WP 28,072- 242- 58- 19- A
NA2Q 27,392- 214- 64- 7- A
K2XU 25,088- 196- 64- 6- A
KD2YP 23,562- 187- 63- 10- B
K1JUL 17,700- 150- 59- 13- A
KK2B 16,830- 153- 55- 7- A
N2GU 13,824- 128- 54- 5- A
NQ2W 9,270- 103- 45- 16- Q
KA2WIK 9,200- 100- 48- 3- B
WT2Y 7,820- 85- 46- 22- A
KB2UW 950- 25- 19- 9- A
K2VV 40- 5- 4- 1- A
WB2PSI (KD2OM,WB2QCJ,WJ2W, WA2ZKD,ops) 119,504- 776- 77- 24- B

3

Delaware

K3WUW 134,520- 885- 76- 23- B
KQ5G 45,880- 370- 62- 14- B
KD3GS 216- 12- 9- 2- A

Eastern Pennsylvania

AA3B 134,976- 888- 76- 24- B
K3NW 112,628- 761- 74- 24- A
K3MQH 108,188- 731- 74- 24- A
K3ONW 103,968- 684- 76- 24- A
KS3F 100,928- 664- 76- 20- B
KC3M 91,350- 609- 75- 22- A
N2EY 86,728- 586- 74- 24- A
K3WW 50,224- 344- 73- 16- B
WA3MVP 48,706- 343- 71- 16- A
AG3G 48,472- 332- 73- 24- A
W3BGN 35,872- 304- 59- 7- A
WB3ESR 34,348- 277- 62- 11- A
NN3Q 30,618- 243- 63- 5- A
KD3KP 27,170- 247- 55- 24- A
W3FAF 22,680- 180- 63- 5- Q
N3BNA 21,106- 173- 61- 24- A
KM3D 20,414- 173- 59- 13- A
W3CEI 15,950- 145- 55- 8- A
NS3L 15,840- 132- 60- 12- A
N3HKU 13,536- 141- 48- 6- A
KR3I 10,000- 100- 50- 24- A
W3ADE 8,400- 100- 42- 5- A
N6CQ/3 2,600- 50- 26- 1- B
K3ZA 2,160- 40- 27- 24- Q
N3CZB 1,584- 33- 24- 5- A
W3MA 660- 22- 15- 2- B
N3GOB 84- 7- 6- 2- A
K2DOX 84- 7- 6- 1- A

Maryland-DC

KE3Q 152,250- 1015- 75- 24- B
K3ZO 141,900- 946- 75- 24- B
K3DI 111,450- 743- 75- 23- B
K3TM 110,112- 744- 74- 24- A
W3UJ 81,900- 546- 75- 16- B
KM3V 73,650- 491- 75- 19- A
NG3K 66,150- 441- 75- 22- Q
K3EI 55,950- 373- 75- 18- A
W3GG 43,028- 347- 62- 6- B
W3EE 20,252- 166- 61- 7- A
K3SA 19,950- 175- 57- 3- B
W3IDT 14,678- 179- 41- 6- A
W3GN 13,260- 130- 51- 24- B
W3CPB 12,720- 120- 53- 10- A
NV3V 7,098- 91- 39- 14- A
K3TKS 6,160- 77- 40- 7- Q
WB2EKK 4,092- 66- 31- 1- A

Western Pennsylvania

K3LR 167,656- 1103- 76- 24- B
K5ZD 163,650- 1091- 75- 24- B
K3UA 117,344- 772- 76- 12- B
K3TUP 76,976- 566- 68- 14- B
W3WC 60,150- 401- 75- 20- A
WB3KKX 28,416- 222- 64- 5- B
W3TWI 26,040- 186- 70- 20- A
WA3TBW 24,000- 200- 60- 4- A
N3BGV 17,582- 149- 59- 14- A
NO3M 1,886- 41- 23- 2- A
N3GLK 1,120- 35- 16- 7- A
KA3VBY 884- 26- 17- 5- A

4

Alabama

KC4ZV 114,912- 756- 76- 23- A
K4BFT (NB9P,op) 70,128- 487- 72- 20- A
WB4GBY 23,826- 209- 57- 16- A
AA4NO 5,412- 82- 33- 4- A

Georgia

AA4GA 102,904- 677- 76- 24- A
AA4VD 92,056- 622- 74- 21- A
WB4UIH 72,600- 484- 75- 21- A
N8LM 70,448- 476- 74- 22- A
KB4GID 59,850- 399- 75- 23- Q
K3PI 58,016- 392- 74- 21- Q
WD4NGI 27,000- 225- 60- 14- Q
K4BAI 25,308- 222- 57- 3- B
N4UZ 23,712- 208- 57- 9- B
KD3GC 12,992- 112- 58- 17- A
KI4Y 12,882- 113- 57- 8- A
WB4NMA 972- 27- 18- 2- A

Kentucky

WM4T (KU8E,op) 148,960- 980- 76- 24- B
N1WR 100,950- 673- 75- 24- A
N4XM 98,100- 654- 75- 20- B
WB4FOT 96,866- 629- 77- 24- A
K4FU 75,900- 506- 75- 18- A
KJ4VH 54,020- 365- 74- 24- Q
KM4DR 38,430- 305- 63- 11- A
KC4WQ 8,450- 65- 65- 9- Q

North Carolina

AA4NC 148,960- 980- 76- 24- B
N4AA 101,850- 679- 75- 21- A
K4JEX 83,100- 554- 75- 17- A
W8UT 62,850- 419- 75- 16- A
N4UOH 60,828- 411- 74- 22- A
N4MPQ 36,046- 269- 67- 20- A
KA4HKK 28,728- 228- 63- 19- A
KY2P 3,520- 55- 32- 24- Q

Northern Florida

N4WW (KØLUZ,op) 160,360- 1055- 76- 24- B
K4XS 131,176- 863- 76- 24- A
K4VRT 58,608- 407- 72- 17- A
W2SHM 35,700- 255- 70- 8- A
N4UF 27,846- 221- 63- 12- A

Puerto Rico

WP4FMH 48,144- 354- 68- 16- A

South Carolina

NU7F/4 62,850- 419- 75- 21- A
N4WL 60,480- 420- 72- 21- A
KØEJ 42,344- 316- 67- 9- Q
WB5M 39,396- 294- 67- 15- A

Southern Florida

K1ZX 150,632- 991- 76- 24- B
WD4AHZ 102,448- 674- 76- 24- A
K4MF 74,444- 503- 74- 21- Q
KO4J 14,688- 136- 54- 8- A
W4YIH 6,400- 80- 40- 7- A

Tennessee

N4ZZ 154,950- 1033- 75- 24- B
K4AMC 115,200- 768- 75- 18- B
N4IR 111,720- 735- 76- 24- A
K3CQ 89,096- 602- 74- 18- B
K4OAQ 67,200- 448- 75- 16- A
AA4DO 66,452- 449- 74- 11- A
AB4CA 37,118- 277- 67- 13- A
W4AY (WA4ZZU,op) 7,128- 81- 44- 6- A
W4/TF3KX 2,940- 49- 30- 5- A
W4PQP (AB4CR,op) 198- 11- 9- 1- A
KI4UZ (+KC4IIS,N4TG) 105,300- 702- 75- 24- B

Virginia

W3YY 123,900- 826- 75- 23- B
K1ZZI 120,750- 805- 75- 23- B
N4ZR 108,150- 721- 75- 24- A
WD4JHY 106,400- 700- 76- 24- A
K4BAM 94,050- 627- 75- 24- A
W4YE 84,000- 560- 75- 14- A
W4XD 81,300- 542- 75- 18- B
AA4XU 73,698- 519- 71- 17- A
N3OS 68,688- 477- 72- 16- A
K4FPF 56,356- 386- 73- 18- A
KJ4KW 24,056- 194- 62- 15- A
W4EZ 20,904- 156- 67- 24- A
W4SNH 17,666- 121- 73- 17- A
WD4MUR 11,552- 76- 76- 10- A
AA4KD 11,232- 104- 54- 13- A
W2UNS 6,708- 78- 43- 24- A
N4JEO 5,476- 74- 37- 4- A
WB4BLJ 1,440- 36- 20- 10- B
K4IX (+NW3K, N4BRA, W4HIR, WB4ENE, WG4T, WY7U, KØJH) 80,550- 537- 75- 24- A

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Arkansas

KM5G 96,348- 651- 74- 20- A
W9OBF 64,094- 439- 73- 18- A
NJ1V/5 23,270- 179- 65- 14- A
WA5VBE 14,144- 136- 52- 8- A
W5RZ 5,548- 73- 38- 3- Q
N5NAQ 1,392- 29- 24- 7- A

Louisiana

NT5G 76,304- 502- 76- 16- A
NO5W 39,900- 285- 70- 19- Q
WB4FDT/5 36,176- 266- 68- 8- A
K5MC 19,968- 156- 64- 5- A
KG5VK 15,846- 139- 57- 14- B

Mississippi

W5XX 114,700- 775- 74- 24- A
KB5HPM/N 1,176- 28- 21- 20- A
WC5N (+W5EW) 103,350- 689- 75- 22- B

New Mexico

K5TA 164,312- 1081- 76- 24- B
AA5B 156,408- 1029- 76- 24- B
K7UP 120,916- 817- 74- 24- A
KT5X 51,972- 366- 71- 7- A
AA5JF 36,010- 277- 65- 11- A
W5TTE 3,300- 50- 33- 3- Q
KE2FT 900- 25- 18- 8- A

North Texas

N5AU (WN4KKN/5,op) 179,360- 1180- 76- 24- B
KS1G 145,616- 958- 76- 24- B
N5RZ 144,298- 937- 77- 24- A
K5NW 139,992- 921- 76- 23- B
KW5P 129,450- 863- 75- 23- B
KC5DX (WQ5W,op) 123,728- 814- 76- 24- A
W5FO 118,712- 781- 76- 21- B
K5RX 117,600- 784- 75- 17- B
N4QS 104,544- 726- 72- 24- A
W5ONL 102,000- 680- 75- 23- B
AA5KK 97,736- 643- 76- 24- A
AA5DX 92,272- 632- 73- 13- B
K5OJI (KD5PJ,op) 89,244- 603- 74- 24- A
W5UDA 85,988- 581- 74- 20- B
N5RM 60,634- 427- 71- 13- B
KO9Y/5 57,226- 403- 71- 6- A
NN5T 55,522- 391- 71- 17- A
K5WXZ 54,604- 374- 73- 17- A
W5AH 47,742- 327- 73- 15- A
KG5OA 39,600- 300- 66- 14- A
K5MR 38,500- 275- 70- 5- B
WD5DTK 2,912- 52- 28- 12- Q
KRØY (+NET) 71,850- 479- 75- 8- B
KB5ILS (+KB5ILT) 26,432- 224- 59- 17- A

Oklahoma

KM5H 120,750- 805- 75- 24- A
WM4Z 104,828- 718- 73- 21- A
AA5HV 10,434- 111- 47- 9- A
AA5NN 2,296- 41- 28- 6- A
K5CM (+N5CG,N5KW) 145,160- 955- 76- 23- B

South Texas

NR5M (K5GA,op) 161,700- 1050- 77- 24- B
AD5Q 142,050- 947- 75- 24- B
W5XD 118,560- 780- 76- 23- B
KE5AL 109,800- 732- 75- 24- A
W5WQN 103,076- 706- 73- 24- B
W5ASP 95,904- 648- 74- 15- B
WC5D 91,950- 613- 75- 24- A
AC5K 79,032- 534- 74- 24- Q
KG5U 78,280- 515- 76- 20- Q
K5GN 66,882- 471- 71- 11- A
W5XD 62,400- 780- 40- 24- B
W5NR 42,366- 307- 69- 14- B
N5JQM 38,412- 291- 66- 19- A
KI3L 27,594- 219- 63- 4- A
WX5I 25,326- 201- 63- 16- A
N5AF 17,136- 153- 56- 5- A
K5LZO (+N5IVF, NT5D, WB5N) 167,808- 1104- 76- 24- B

West Texas

WA5MFI 32,736- 248- 66- 16- A
N5NA 27,876- 202- 69- 8- A
WF5E (+K5CFA) 131,868- 891- 74- 23- B

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East Bay

N6RO 154,350- 1029- 75- 24- B
N6EK 119,866- 821- 73- 24- B
K6HIH 90,428- 611- 74- 24- B
W6RGG 75,000- 500- 75- 12- B
NR6E 21,248- 166- 64- 12- A

Los Angeles

W6AQ (WA6OTU, op) 153,520- 1010- 76- 24- B
N6PN 131,100- 874- 75- 24- A
W6UE (KA6SAR, op) 116,824- 859- 68- 24- B
N6HC 94,950- 633- 75- 19- A
WA6BIL 72,854- 499- 73- 23- B
W1RND/6 57,456- 399- 72- 14- A
KA3DSE 53,534- 377- 71- 16- A
N6HE 53,480- 382- 70- 15- A
WB6JJE 43,400- 310- 70- 17- Q
W6FA 13,568- 128- 53- 4- A
N6AA 8,352- 87- 48- 2- B
W6NV 7,568- 88- 43- 2- B
W6SD (N6RVZ, W6AUG, WA6KYR, WB6VVS, WQ6F, ops) 78,694- 539- 73- 24- B

Orange

NC6U 132,750- 885- 75- 23- B
ND3F 72,816- 492- 74- 24- A
K6HRT 63,980- 457- 70- 20- B
W6HAL 59,080- 422- 70- 23- A
AA6PW 56,028- 406- 69- 19- A
K2PLF 24,034- 197- 61- 6- A
W6SX 15,660- 145- 54- 3- B
N6CHU 15,344- 137- 56- 8- A
AA6LM 3,584- 56- 32- 12- Q
N6PE 338- 13- 13- 1- A

Pacific

KNØE/KH3 160,200- 1068- 75- 21- B
AH6AZ 44,086- 329- 67- 9- A
WH6I 33,456- 246- 68- 12- A

Santa Barbara

WA6FGV 79,716- 546- 73- 20- A
N6NMH 44,162- 311- 71- 17- Q
WB6VKN 26,840- 220- 61- 11- A
K7SDW 7,740- 90- 43- 24- Q

Santa Clara Valley

W6ISQ 107,312- 706- 76- 20- B
W6IO 88,200- 588- 75- 22- Q
AJ6V 87,600- 600- 73- 12- B
NS6V 85,104- 591- 72- 14- B
N6TV 48,860- 349- 70- 6- B
K6MJ 34,040- 230- 74- 13- A
N6PT 27,300- 210- 65- 14- A
WB6DSV 25,578- 203- 63- 4- A
W9MAK 18,178- 149- 61- 7- A
N1EE/6 14,352- 156- 46- 4- B
W6IGU 6,962- 59- 59- 9- A
K6SMH 6,728- 58- 58- 10- Q
NY6C (WA9ZBV, WXØB, ops) 147,136- 968- 76- 24- B

San Diego

K6NA 162,000- 1080- 75- 24- B
W6UQF 126,768- 834- 76- 24- A
W6MVW 79,624- 538- 74- 23- A
W6JXA 38,198- 269- 71- 11- A
W6QX 37,800- 270- 70- 19- Q
KE6PY 24,840- 207- 60- 12- A
W6JVA 18,998- 161- 59- 9- Q
AA6EE 11,900- 119- 50- 6- A
W6JL 10,506- 103- 51- 3- A
KC6DCF 1,536- 32- 24- 12- A

San Francisco

W6JTI 121,360- 820- 74- 24- A
K6LRN 33,086- 233- 71- 6- B
N6NF 26,800- 200- 67- 8- Q
WA8LLY 20,096- 157- 64- 8- Q
WW6D 10,486- 107- 49- 6- Q
N6SSQ 6,480- 72- 45- 10- A
W6BIP (+KK1A) 104,424- 687- 76- 22- B

San Joaquin Valley

N6SUZ 22,448- 184- 61- 17- A
W6FAH 3,120- 52- 30- 5- B
N6VVK 176- 11- 8- 9- A

Sacramento Valley

W6GO (N6IG, op) 163,248- 1074- 76- 24- B
W1FEA 123,300- 822- 75- 24- A
N6JV 119,250- 795- 75- 24- B
K6SG 92,700- 618- 75- 24- B
K6BPB 53,676- 378- 71- 21- A
K6FO 38,364- 278- 69- 15- A
WA6AUE 35,108- 262- 67- 7- Q
N6DOJ 34,970- 269- 65- 15- A
W6NKR 25,452- 202- 63- 8- A

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Alaska

WL7E 111,568- 734- 76- 21- B
AL7CQ 109,208- 748- 73- 22- B
NL7DU 29,646- 243- 61- 15- A

Arizona

K6LL 166,944- 1128- 74- 24- B
KY7M 156,300- 1042- 75- 24- B
K7OX 130,240- 880- 74- 24- A
KD7E 93,750- 625- 75- 24- A
W7ZMD 88,800- 600- 74- 19- A
AA7BG 69,580- 490- 71- 16- A
N7IR 67,192- 454- 74- 24- Q
N7CPL 60,532- 409- 74- 17- A
W7YS 47,972- 358- 67- 13- A
NN7A 38,880- 270- 72- 14- A
W7QEK 22,800- 200- 57- 15- A
W2HTX 6,560- 80- 41- 5- A
KC7V 4,674- 57- 41- 4- A
W8LQA 2,480- 40- 31- 3- A

Eastern Washington

K7FR 124,650- 831- 75- 24- A
KS7V 15,232- 136- 56- 7- A
K7BFL 5,328- 74- 36- 4- Q

Idaho

WO7Y 112,480- 760- 74- 24- A
W7ZRC 104,400- 696- 75- 22- A
KN7K 72,896- 536- 68- 16- A
WS7U 46,976- 367- 64- 18- A
KA7NOC 22,134- 217- 51- 12- A
KK7A 17,280- 160- 54- 6- Q

Montana

KS7T 128,760- 870- 74- 24- B
W7LR 36,120- 258- 70- 9- A
KA7YYR 18- 3- 3- 2- Q

Nevada

NC7K 111,300- 742- 75- 24- A
KZ4H 60,680- 410- 74- 20- A
K6OMB 39,780- 306- 65- 8- A

Oregon

W7NI 170,544- 1122- 76- 24- B
AI7B 157,624- 1037- 76- 24- B
W7YAQ 123,300- 822- 75- 24- A
WA7FAB 121,200- 808- 75- 22- B
K7WPC 28,060- 230- 61- 13- A
K7GDN 25,740- 198- 65- 16- B
KA7JBX 18,200- 175- 52- 8- A
W7IMP 1,218- 29- 21- 4- B
K7ZMR 240- 15- 8- 1- A
N7ENU (KA7RCZ, WB7UFJ, ops) 89,224- 587- 76- 24- A

Utah

WE7B 141,300- 942- 75- 24- B
W7CFL 133,200- 900- 74- 24- B
K3TA 77,552- 524- 74- 21- A
W7HS 49,056- 336- 73- 20- A
N7IUN 48,472- 332- 73- 17- A
K6EIL 46,620- 333- 70- 17- Q
K6XO 31,808- 224- 71- 6- A
K7RW 29,104- 214- 68- 6- A
K7CU 660- 22- 15- 1- A

Western Washington

W7WA 162,470- 1055- 77- 24- B
WY7I 142,200- 948- 75- 24- B
K7LR 128,288- 844- 76- 24- A
KR7G 125,250- 835- 75- 21- B
K7SS 122,208- 804- 76- 22- A
K7CW 117,600- 784- 75- 24- A
K7WA 115,500- 770- 75- 24- A
N4SL 91,168- 616- 74- 23- A
NØAX/7 86,728- 586- 74- 24- Q
N7LOX 82,052- 562- 73- 19- A
W7LKG 76,500- 510- 75- 22- B
N7KZN 68,820- 465- 74- 21- A
K7RA 67,784- 458- 74- 19- A
KX7L 53,544- 388- 69- 17- A
N6MZ 37,674- 273- 69- 12- A
K7LXC 20,458- 193- 53- 8- Q
KT7G 16,758- 133- 63- 2- A
W7KJ 9,600- 100- 48- 6- Q
K7LED (K6PQJ, KA7CSE, N7NW, W7EVS, WA7UVJ, ops) 98,700- 658- 75- 24- A

Wyoming

K7MM 133,500- 890- 75- 24- B
NC7O 22,272- 174- 64- 12- Q
WC7S 9,804- 114- 43- 5- B

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Michigan

KJ8A 102,564- 693- 74- 24- A
K8DD 101,550- 677- 75- 20- B
K8AQM (K8JM, op) 100,048- 676- 74- 24- B
NE8O (KA8JBK, op) 93,388- 631- 74- 20- A
W8TJQ 90,000- 600- 75- 21- A
K8SB 86,700- 578- 75- 24- A
K8RDJ 70,080- 480- 73- 21- A
K8MW 69,496- 476- 73- 16- A
W8VPC 64,468- 454- 71- 16- A
K8SAK 57,680- 412- 70- 19- A
KW8G 46,230- 335- 69- 14- A
WA8YPY 44,800- 320- 70- 20- A
K8CV 39,808- 311- 64- 13- A
WK8V 32,508- 258- 63- 19- Q
N8CQA 32,256- 252- 64- 17- Q
KA8GOM 26,880- 210- 64- 16- A
W8EGI 24,960- 192- 65- 8- A
N8HSN 24,400- 200- 61- 19- A
K8GVK 19,760- 152- 65- 10- A
W8VWY 17,980- 145- 62- 9- Q
AC8W 16,632- 154- 54- 5- Q
N8CXX 9,600- 100- 48- 24- A
NX8K 9,568- 92- 52- 20- A
WA8FRD 9,384- 92- 51- 13- A
KA8IZE 8,670- 85- 51- 18- A
W8WVU 1,122- 33- 17- 2- A
W8ROS 798- 21- 19- 2- A
W8PDV 18- 3- 3- 5- A
WR8F 18- 3- 3- 1- A
KC8BW (+WB8ITB) 47,736- 351- 68- 19- A
KE8OC (+K8CC) 28,670- 235- 61- 11- B

Ohio

K8BL 136,192- 896- 76- 24- A
W8FN 128,288- 844- 76- 22- B
KW8N (NZ4K, op) 126,008- 829- 76- 24- B
K8MR 109,950- 733- 75- 16- B
KV8Q 109,650- 731- 75- 24- A
N8AA 101,384- 667- 76- 18- A
W8UPH 87,468- 591- 74- 23- A
W8PN 74,022- 507- 73- 22- B
KQ8M 73,800- 492- 75- 13- A
WA8 MK 72,864- 506- 72- 24- A
W8FLX 70,290- 495- 71- 22- A
W8CAR 70,000- 500- 70- 15- A
K8ATQ 58,756- 397- 74- 20- Q
W8IDM 54,312- 372- 73- 17- Q
WA8RJF 50,700- 338- 75- 23- Q
W8PC 40,528- 298- 68- 14- B
W8RSW 37,696- 248- 76- 16- B
NW4G 31,374- 249- 63- 11- A
K8NZ 30,208- 236- 64- 5- A
AF8C 28,800- 240- 60- 11- A
NS8O 26,496- 207- 64- 12- A
N8AGU 24,570- 189- 65- 10- B
WA8MEM 16,758- 147- 57- 8- A
K8CX 14,040- 130- 54- 4- A
NS8G 13,568- 128- 53- 8- A
W8IQ 13,000- 100- 65- 24- Q
N8LBI 11,500- 125- 46- 7- A
WD8AJF 11,016- 102- 54- 12- A
WU8R 6,278- 73- 43- 10- A
W8EAO 4,958- 67- 37- 24- Q
W8MVN 4,836- 78- 31- 10- Q
N8KAG 1,720- 43- 20- 5- A
WV8P 128- 8- 8- 2- Q
W8EDU (AF8A, N8ARD, WB8WTS, ops) 124,184- 817- 76- 24- B
N8IKX (+WB3KKX, KC3N, N8EKE) 106,500- 710- 75- 21- B

From May 1990 QST © ARRL

Dave, WØØG, guest-operated at K4VX/Ø, and finished in second place, high-power CW.

Jim, NQ2D, finished first-place NLI on CW.

Dick, K6HRT, finished first-place phone in ORG.

West Virginia

W4NW/8	75,628-	511-	74-	12-	A
WA8DGE	71,100-	474-	75-	17-	A
W8JWX	38,304-	266-	72-	12-	Q
W8TN	6,000-	75-	40-	5-	A

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Illinois

AG9A	148,050-	987-	75-	24-	B
AC9C	131,936-	868-	76-	24-	B
K4XU	131,400-	876-	75-	24-	A
N9AEJ	125,704-	827-	76-	23-	B
KS9O	121,350-	809-	75-	24-	B
K9UIY	114,700-	775-	74-	24-	B
K9LJN	112,632-	741-	76-	24-	A
K9ZO	108,376-	713-	76-	24-	A
K9CC	104,044-	703-	74-	24-	A
WB8SVN	102,144-	672-	76-	24-	B
WEØB	101,972-	689-	74-	17-	B
WB9JKI	101,688-	669-	76-	19-	A
WAØAVL	95,456-	628-	76-	22-	A
WA9TPQ	92,204-	623-	74-	23-	A
N9JF	85,200-	568-	75-	20-	A
K9JU	74,606-	511-	73-	21-	Q
NA9J	65,808-	457-	72-	13-	B
N2CKZ	56,800-	400-	71-	22-	A
W9LO	54,720-	380-	72-	19-	Q
W9EBY	48,240-	335-	72-	18-	A
NØFFZ	46,008-	324-	71-	19-	A
K9PPW	45,816-	332-	69-	12-	A
K9UQN	45,792-	318-	72-	12-	A
WG9L	44,070-	339-	65-	10-	A
K9BGL	35,520-	296-	60-	8-	B
W9LNQ	33,040-	236-	70-	8-	A
KA9IMX	31,820-	215-	74-	15-	A
W9RW	31,800-	265-	60-	9-	B
WD9GGY	28,288-	221-	64-	13-	A
W9ZEN	23,482-	199-	59-	10-	A
W9HBI	23,084-	199-	58-	7-	A
NM9C	13,260-	130-	51-	9-	Q
W9REC	11,440-	104-	55-	9-	A
KG9N	9,810-	109-	45-	1-	A
K9DKJ	9,000-	100-	45-	13-	A
W9TM	6,708-	86-	39-	4-	Q
W9AGM	3,300-	50-	33-	3-	A

Indiana

W9RE	155,078-	1007-	77-	24-	B
N9NO	149,568-	984-	76-	24-	B
KE9I	121,600-	800-	76-	23-	B
NJ9C	107,400-	716-	75-	24-	A
AJ9C	105,944-	697-	76-	22-	A
KM8I	80,850-	539-	75-	18-	A
W9JOO	63,936-	444-	72-	23-	A
K9JWI	40,896-	288-	71-	13-	A
KA9IRS	38,056-	284-	67-	22-	B
WA9ZES	23,640-	197-	60-	13-	A
W9REG (K9JWI, KA9NOH, KE9IT, N9IFH, WB9TOW, ops)	43,824-	332-	66-	24-	A

Wisconsin

WØAIH (NØBSH, op)	139,200-	928-	75-	24-	B
W2WOE/9	107,300-	725-	74-	23-	B
WA1UJU	99,300-	662-	75-	24-	A
W9HE	97,800-	652-	75-	23-	A
WB9HRO	93,750-	625-	75-	19-	B
KT9W	88,948-	601-	74-	18-	B
W9NA	82,650-	551-	75-	13-	B
N9NE	76,516-	517-	74-	23-	Q
K9OSH	74,168-	508-	73-	17-	B
W9GHY	70,380-	510-	69-	15-	A
K9RR	54,312-	372-	73-	18-	B
KB9S	41,400-	300-	69-	9-	A
N9EZ	38,726-	289-	67-	11-	A
K1TMM	38,226-	277-	69-	24-	A
W9XU	36,480-	285-	64-	15-	A
NT9B	30,132-	243-	62-	17-	A
W9XT	20,650-	175-	59-	4-	A
N9CKC	20,592-	312-	66-	9-	A
K9CAN	20,536-	151-	68-	3-	Q
W9KKH	19,800-	165-	60-	6-	A
WE9V	6,952-	79-	44-	7-	A
W9WI	2,592-	48-	27-	1-	A
N9EAX	2,552-	44-	29-	7-	A
K9KR	2,262-	39-	29-	3-	A
WA9ZSO	1,440-	30-	24-	4-	A

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Colorado

KØRF (WØUA, op)	171,000-	1125-	76-	24-	B
KØEU	148,960-	980-	76-	24-	A
KCØD	137,850-	919-	75-	24-	B
ACØS	115,200-	768-	75-	20-	B
KJØG	115,144-	778-	74-	24-	B
W1XE	107,152-	724-	74-	22-	A
KØFRP	92,056-	622-	74-	24-	Q
NØZA	82,656-	574-	72-	15-	B
WØCP	76,304-	502-	76-	14-	A
WØETT	62,064-	431-	72-	11-	A
NØCNV	52,500-	375-	70-	20-	Q
KRØU	49,680-	345-	72-	15-	Q
K7VAY	37,128-	273-	68-	15-	A
K9BQL	34,970-	269-	65-	13-	A
WØSG	15,950-	145-	55-	6-	A
NØKOX	15,600-	150-	52-	14-	Q
NQØI	11,792-	134-	44-	2-	B
NYØQ	6,068-	82-	37-	8-	A

Iowa

WØEJ	145,920-	960-	76-	24-	B
WA4TWB	115,672-	761-	76-	21-	B
KFØH	101,850-	679-	75-	15-	B
WØJTC	28,800-	225-	64-	12-	A
WBØB	1,134-	27-	21-	3-	Q
KBØXX	588-	21-	14-	3-	A
KDØRT (+NQØW)	79,632-	553-	72-	21-	B

Kansas

KBØG	154,128-	1014-	76-	24-	B
NØXA (KØVBU, op)	121,144-	797-	76-	24-	A
NØFMR	48,706-	343-	71-	16-	A
NWØF	35,560-	254-	70-	14-	Q
WØAWP	32,384-	253-	64-	19-	A
NE4F/Ø	13,888-	124-	56-	4-	A
WØYRN	9,964-	94-	53-	14-	A
WTØE	4,680-	65-	36-	8-	A
NØIN	4,092-	62-	33-	1-	A
KAØSIX	3,840-	64-	30-	4-	A
WOØE	2,460-	41-	30-	6-	Q
NOØY	360-	15-	12-	1-	Q
ABØS (+KØWA, WØCEM)	146,100-	974-	75-	24-	B

Minnesota

NØAT	142,800-	952-	75-	24-	B
WØHW	138,900-	926-	75-	23-	B
WØAA (NØCIB, op)	132,748-	862-	77-	23-	B
KØJL	132,150-	881-	75-	24-	B
KØAD	118,800-	792-	75-	22-	B
K3WT	117,000-	780-	75-	23-	B
WØUC	115,950-	773-	75-	24-	A
KØKX	112,500-	750-	75-	17-	B
WBØHCH	112,200-	748-	75-	24-	B
KBØCV	110,352-	726-	76-	24-	A
WAØRBW	103,650-	691-	75-	17-	B
KØFVF	103,050-	687-	75-	20-	B
KEØOL	98,952-	651-	76-	23-	A
KØHB	97,966-	671-	73-	24-	A
KØFZG	95,164-	643-	74-	24-	A
N9CIQ	74,314-	509-	73-	22-	Q
KJØB	70,050-	467-	75-	18-	A
KBØZQ	69,900-	466-	75-	19-	Q
WAØMHJ	64,678-	443-	73-	13-	B
KNØV	57,456-	399-	72-	11-	A
KØTO	46,512-	342-	68-	9-	A
WØYHE	45,152-	332-	68-	20-	Q
WAØPEV	40,870-	305-	67-	12-	Q
KGØB	38,360-	274-	70-	10-	A
WØHBE	36,960-	280-	66-	18-	A
NØAGW	26,586-	211-	63-	13-	A
WBØYUC	22,100-	170-	65-	11-	A
WØNGB	20,400-	170-	60-	8-	Q
KEØG	17,278-	163-	53-	7-	A
WAØWWW	15,600-	150-	52-	7-	A
KØMPH	10,290-	105-	49-	3-	A
KSØT	10,000-	100-	50-	2-	A
WBØZUR	8,084-	86-	47-	4-	A
NØKWO	1,160-	29-	20-	7-	A
WB2V/Ø (+N6VB, KDØKV)	46,200-	330-	70-	16-	B

Missouri

K4VX/Ø (WOØG, op)	174,800-	1150-	76-	24-	B
KMØL	137,104-	902-	76-	24-	B
WØHBH	61,864-	418-	74-	9-	A
KIØW	55,188-	378-	73-	18-	A
KØDEQ	50,508-	366-	69-	9-	B
WØRNG	35,108-	262-	67-	7-	A
KEØKI	30,552-	228-	67-	12-	A
WAØOUI	17,710-	161-	55-	7-	A
KAØP	7,520-	80-	47-	4-	A
W3HDH/Ø	3,200-	50-	32-	1-	A
WXØG	2,548-	49-	26-	7-	A

North Dakota

WBØO	130,650-	871-	75-	22-	A

Nebraska

KØSCM	110,100-	734-	75-	24-	Q
KVØI	104,550-	697-	75-	23-	Q
NØAET	6,728-	58-	58-	11-	A

South Dakota

KØDD (WBØADO, op)	146,250-	975-	75-	24-	B
KØJV	23,392-	172-	68-	11-	A
KØWIU	21,190-	163-	65-	10-	A
WDØT (+KBØQA)	143,032-	941-	76-	24-	B

VE

Maritime-Newfoundland

VO1AW	160-	10-	8-	2-	A

Quebec

VE2AQP	66,600-	450-	74-	23-	B
VE2AWR	34,580-	266-	65-	18-	B
VE2BLX	5,776-	76-	38-	8-	A
VE2ABO	2,064-	43-	24-	7-	Q
VE2FFE	1,968-	41-	24-	3-	A

Ontario

VE3OOL	42,486-	291-	73-	15-	Q
VE3FZW	38,760-	285-	68-	21-	Q
VE3OMU	12,208-	109-	56-	7-	A
VE3NYT	7,938-	63-	63-	11-	A
VE3ST	7,920-	90-	44-	3-	A
VE3CUI	5,940-	90-	33-	3-	A
K3TX/VE3	1,584-	36-	22-	1-	A
VE3ART (VE3GAS, VE3QB, ops)	91,560-	654-	70-	14-	B

Manitoba

KMØO/VE4	134,700-	898-	75-	24-	B
VE4GV	100,650-	671-	75-	22-	A

Saskatchewan

VE5ZX	121,064-	818-	74-	24-	A
VE5VP	84,826-	581-	73-	24-	A
VE5AAD	9,660-	115-	42-	5-	A

Alberta

VE6EZ	71,280-	540-	66-	15-	A
VE6DZ	60,480-	432-	70-	20-	A
VE6RI	21,808-	188-	58-	17-	A

British Columbia

VE7CC	163,096-	1073-	76-	24-	B
VE7HR	28,892-	233-	62-	24-	Q
VE7GDS	10,580-	115-	46-	13-	A

Phone

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Connecticut

N8RA	170,392-	1121-	76-	22-	B
K1CC	162,184-	1067-	76-	14-	B
K1RM	155,078-	1007-	77-	15-	B
NQ1K	114,300-	762-	75-	15-	B
AA2Z	111,000-	750-	74-	10-	B
W1AW (AA2Z, op)	97,344-	676-	72-	8-	B
KA1MWX	88,060-	595-	74-	18-	A
N1JW	83,176-	562-	74-	13-	B
WE6G	81,792-	568-	72-	24-	B
W1ECH	72,380-	470-	77-	18-	A
NX1Q	62,700-	418-	75-	11-	A
WA1LJP	59,850-	399-	75-	15-	A
KH6CP/1	57,300-	382-	75-	24-	Q
KI1N	53,200-	350-	76-	20-	B
AB1U	51,744-	336-	77-	12-	A
KC1OH	49,504-	364-	68-	14-	B
K1DII	43,200-	300-	72-	11-	A
WA3VIL	32,208-	244-	66-	14-	A
W1TKG	27,040-	208-	65-	10-	A
KQ1O	25,192-	188-	67-	11-	A
KA1BB	24,898-	211-	59-	10-	A
KB1WR	24,428-	197-	62-	11-	A
N1GRM	22,152-	156-	71-	9-	A
NF1J	19,468-	157-	62-	6-	A
W1PMR	17,920-	160-	56-	9-	A
KC1MB	16,756-	142-	59-	8-	A
W1BIH	12,616-	83-	76-	24-	B
K1SSO	8,800-	100-	44-	5-	Q
KA1MIS/T	6,080-	76-	40-	3-	A
WB1EPO	5,440-	80-	34-	14-	A
WB1DQT	4,484-	59-	38-	2-	A
K2SX/1	3,000-	50-	30-	1-	B
KA5GIS/1	1,650-	33-	25-	5-	A
KA1UKR/N	1,612-	31-	26-	5-	A
N1GNV	780-	26-	15-	3-	A
WB1CZX	640-	20-	16-	2-	A
K1ZZ	8-	4-	1-	1-	A
KA1MWU/T	2-	1-	1-	1-	A
K1TO (+KA1VC)	164,780-	1070-	77-	18-	B
K1XA (+K1TO,KA1VC)	157,850-	1025-	77-	16-	B
K1SSN (N6CY,WB7EZD,ops)	153,450-	1023-	75-	24-	B
NJ2L (+NTØZ,WA1STO)	122,276-	794-	77-	22-	A
N1GTK (+N1HDW)	93,388-	631-	74-	24-	A
K1DW (+K1NCD)	91,168-	592-	77-	24-	A
K1TN (+KR1S,AA2Z)	76,152-	501-	76-	15-	B
K1CPJ (+KA1QAS)	23,226-	237-	49-	14-	A

Eastern Massachusetts

N6BV/1	248,368-	1634-	76-	24-	B
N1AU	163,350-	1089-	75-	21-	B
W1FM	87,856-	578-	76-	24-	A
NB1B	68,968-	466-	74-	8-	B
K1ZZJ	47,596-	326-	73-	14-	A
W1TUM	39,192-	276-	71-	13-	A
NU1H	34,680-	289-	60-	19-	A
KB1GN	33,726-	231-	73-	13-	A
WA1RCH	30,192-	222-	68-	18-	A
W1AX	26,026-	169-	77-	7-	A
KC1BU	23,736-	172-	69-	11-	A
N1FYZ	16,200-	150-	54-	9-	A
K2TGX	14,560-	140-	52-	5-	A
KA1PES/T	12,600-	126-	50-	14-	A
K1LXJ	11,040-	115-	48-	6-	A
WB1EHL	10,600-	100-	53-	8-	Q
KA1CQD/T	9,324-	111-	42-	10-	A
W1ZNY	9,270-	103-	45-	10-	A
WB1GEX	4,608-	64-	36-	1-	A
K1UCA	3,784-	44-	43-	4-	B
N1EOE	2,754-	51-	27-	6-	A
W2RKB	2,160-	45-	24-	3-	A
W1AF (KA1s IBC, SSQ, UTE, KZ1W, ops)	135,280-	890-	76-	24-	B
N1GVM/T (+N1DZJ/T)	12,642-	129-	49-	9-	A

Maine

NY1E	126,434-	821-	77-	21-	B
K1BZ (N1ATN,op)	119,776-	788-	76-	24-	A
K1JB	84,968-	559-	76-	12-	B
K1UO	56,980-	370-	77-	10-	B
KX1E	47,888-	328-	73-	16-	A
KC1NY	40,328-	284-	71-	13-	A
NR1F	17,280-	144-	60-	10-	A
WA9KDR/1	15,732-	138-	57-	6-	A
K1MZB	9,200-	92-	50-	24-	A

New Hampshire

K8LT	141,664-	932-	76-	17-	B
K1TR	78,848-	512-	77-	12-	A
AF1T	50,100-	334-	75-	8-	B
W1UN	44,844-	303-	74-	11-	A
NU1I	38,036-	257-	74-	14-	A
KA9GCE	33,580-	230-	73-	17-	A
NX1H	30,248-	199-	76-	13-	B
KA1LMR	21,172-	158-	67-	13-	Q
KT1H	15,624-	126-	62-	5-	A
KA1OEO/T	11,322-	111-	51-	11-	A

Rhode Island

K6IM	134,976-	888-	76-	17-	B
K1VSJ	116,732-	758-	77-	24-	A
KC1CU	90,090-	585-	77-	19-	A
K2MN	58,904-	398-	74-	16-	A
K1IU	30,592-	239-	64-	3-	B
N1EHX	30,160-	232-	65-	7-	B
KA1UQU	29,358-	233-	63-	24-	A
KA1NJW	27,560-	212-	65-	14-	Q
KB1KA	10,710-	105-	51-	7-	A
W1RFQ	10,626-	77-	69-	6-	A
N1GYS	2,400-	40-	30-	5-	A
K1NG (+KB1EM, KI1G)	252,406-	1639-	77-	24-	B
WA1TAQ (+KA1s KWE, TKF, NZ1H)	192,346-	1249-	77-	24-	B
W1AQ (KA1SFJ, KM1X, N1GOP, NO1U, WA2KFE)	33,536-	262-	64-	5-	A
WB1FDY (+KA1FRH, N1EEU)	27,392-	214-	64-	16-	A

Vermont

WB1GQR	249,172-	1618-	77-	24-	B
KC1LJ	153,368-	1009-	76-	22-	B
WA1GUV	21,318-	187-	57-	10-	Q
KA1RRX	10,580-	115-	46-	12-	A

Western Massachusetts

KZ1M	169,024-	1112-	76-	24-	A
KA1XN	141,064-	916-	77-	15-	B
KB1RA	105,524-	713-	74-	16-	B
W1LUG	896-	28-	16-	3-	B
NJ1F (+KB1W, KY1H, WA1ZAM)	204,512-	1328-	77-	24-	B
W1YK (KM1P, N1s BPD, GFI, NQ1R, NW1Q,ops)	90,144-	626-	72-	18-	A

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Eastern New York

W2ARQ	170,324-	1106-	77-	23-	B
N1CC	155,540-	1010-	77-	21-	B
WA2STM	112,184-	758-	74-	17-	B
KD2NE	103,180-	670-	77-	18-	B
WC2W	85,536-	594-	72-	20-	B

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N2DU 81,620- 530- 77- 21- A
N2CJJ 80,696- 524- 77- 17- A
K2UF 80,560- 530- 76- 22- A
NW2J 65,846- 451- 73- 15- A
KN2Q 57,720- 390- 74- 9- B
KU2Q 48,672- 338- 72- 24- B
WM2Y 42,912- 298- 72- 22- A
N2HIF 42,228- 306- 69- 12- Q
WB2KHE 41,550- 277- 75- 15- A
KA2CFX 29,882- 223- 67- 12- A
W2XM 24,544- 236- 52- 11- A
N2GQS 20,618- 169- 61- 12- A
KB2HUN 19,872- 216- 46- 13- A
N2FS 18,774- 149- 63- 7- A
WA2ZWS (KA2NWO,op) 18,178- 149- 61- 7- A
WK2H 16,958- 139- 61- 7- B
WM2U 16,680- 139- 60- 9- A
WA2YEI 13,500- 135- 50- 6- A
N2AZS 12,648- 124- 51- 2- B
KC2JG 12,100- 121- 50- 7- A
KE2JJ 11,500- 115- 50- 5- A
WD2K 11,400- 100- 57- 24- A
KD2IX 11,374- 121- 47- 14- Q
KA2AQV 8,118- 99- 41- 11- A
N2HTT 6,450- 75- 43- 3- A
KB2EIK 6,160- 77- 40- 5- Q
W2NRD 6,000- 60- 50- 10- A
KB2HPX 5,056- 79- 32- 10- A
KA2SKG 4,104- 57- 36- 8- A
WD2AJS/T 3,528- 63- 28- 8- A
N2FIN 2,900- 50- 29- 10- A
KA2AFG 2,552- 58- 22- 6- A
N2AIF 330- 15- 11- 2- A
K2XA 192- 12- 8- 2- B
N2FTR 128- 8- 8- 6- A
KY2J (+KA2TIP) 169,400- 1100- 77- 24- B

NYC-Long Island

KA2AEV 173,404- 1126- 77- 19- B
WB2DHY 142,120- 935- 76- 22- B
KC2AG 126,768- 834- 76- 24- B
KD2TT 108,528- 714- 76- 20- A
KS2G 91,800- 612- 75- 17- A
K2AU 71,744- 472- 76- 19- B
K2HVN 30,400- 200- 76- 10- A
WB2QEU 29,850- 199- 75- 8- A
K2OVS 11,858- 77- 77- 11- A
W2CZZ 4,140- 46- 45- 4- A
W2KZE 884- 34- 13- 3- A
KA2RSJ/T 144- 12- 6- 2- A

Northern New Jersey

WB2K 155,232- 1008- 77- 15- B
W2RQ 80,956- 547- 74- 24- B
KC3N/2 78,402- 537- 73- 10- A
KZ2S 68,680- 505- 68- 5- B
N2IIH 59,080- 422- 70- 17- A
KE2CG 50,370- 345- 73- 16- B
KW4E 39,620- 283- 70- 12- A
KT2D 38,100- 254- 75- 11- A
W2HCA 21,000- 150- 70- 13- A
W2GD 17,792- 139- 64- 4- B
K2RXN 17,346- 147- 59- 10- B
WB2AZE 16,638- 141- 59- 9- A
K4BNC 15,554- 101- 77- 9- B
WA2CWX 14,448- 129- 56- 4- B
W2KXD 11,570- 89- 65- 10- B
AA2U 2,400- 50- 24- 1- Q
W2GNW 1,920- 40- 24- 3- B
WS2L 1,400- 28- 25- 2- A

Southern New Jersey

K2YY 179,512- 1181- 76- 23- B
K2KED 100,928- 664- 76- 21- B
WB2UEY 86,488- 569- 76- 20- A
W2PAU 78,750- 525- 75- 16- B
KB2BF 78,292- 529- 74- 24- B
WA2IUO 67,488- 444- 76- 12- B
K2MK 53,818- 379- 71- 17- A
W2FGY 44,400- 300- 74- 18- B
WA2LBT 42,560- 304- 70- 16- A
WB2UVB 33,634- 251- 67- 13- A
W2ORA 29,850- 199- 75- 13- A
K2LOO 24,066- 191- 63- 11- A
K2PS 22,968- 198- 58- 3- A
N2MM 17,368- 167- 52- 3- B
KE2OP 15,400- 100- 77- 15- A
KD2AE 14,690- 113- 65- 7- A
KA2NBB 13,750- 125- 55- 10- B
W5KI 12,750- 85- 75- 9- A
N2GUW 11,590- 95- 61- 5- A
KA2KFO 10,000- 100- 50- 11- A
K2TD 9,810- 109- 45- 3- B
WA2IUO 6,688- 44- 76- 12- B
N2AWC 5,100- 75- 34- 6- A
KB2GLO/T 3,720- 60- 31- 7- A
WB2P 2,652- 51- 26- 3- A
N2HYG (+KA2HLL, KB2CNE, N2s HQV, ITJ, WA2s EMU, RJP) 52,704- 366- 72- 24- A

Western New York

W2HPF 167,860- 1090- 77- 20- B
W2TZ 148,500- 990- 75- 24- A
N2MG 125,510- 815- 77- 24- B
K1JUL 101,232- 666- 76- 24- A
W2RR 98,344- 647- 76- 17- B
W2JO 90,132- 609- 74- 17- B
W2FXA 62,168- 409- 76- 12- B
NM2J 56,850- 379- 75- 22- A
KD2YP 48,384- 336- 72- 13- B
K2UC 44,250- 295- 75- 12- A
NG2P 43,632- 303- 72- 17- B
WE2T 41,440- 296- 70- 10- B
WB2EKP 40,464- 281- 72- 13- A
KB2NU 33,880- 220- 77- 8- B
NA2A 33,004- 223- 74- 10- B
WB2KLD 33,000- 250- 66- 15- A
N2WK 31,460- 242- 65- 7- B
KK2B 30,774- 223- 69- 6- A
W2HG 30,464- 238- 64- 4- B
KD2WP 30,096- 264- 57- 13- A
WA2WPI 27,950- 215- 65- 9- A
NW2I 26,460- 189- 70- 20- Q
K2VV 24,034- 197- 61- 2- B
KB2UW 20,736- 162- 64- 8- A
WB2ABD 13,608- 126- 54- 2- B
KB2IOA 6,290- 85- 37- 7- A
KE2OT 4,674- 57- 41- 7- A
NA2Q 3,904- 61- 32- 2- A
WF2V 2- 1- 1- 1- A
K2ZJ (+N2MF) 203,126- 1319- 77- 24- B
W2OW (K1MEO, KD2PC, N2HR, NK2H, W2MTA, WE2K, WE2L, WB8RAE, ops) 133,298- 913- 73- 22- B
K2IQ (K2OZV, KA2s CFH, MTB, KD2EE, WA2ARA, WB2PYU, ops) 89,984- 608- 74- 24- A
KB4VL (+N2JYC) 56,684- 383- 74- 11- A
WA1FXK (+KB2EVX) 37,128- 273- 68- 20- A

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Delaware

K3WUW 211,134- 1371- 77- 23- B
KD3GS 46,620- 333- 70- 13- A
AD3V 4,050- 75- 27- 2- B

Eastern Pennsylvania

K3ZA 195,472- 1286- 76- 24- B
KS3F 193,886- 1259- 77- 22- B
K3MQH 125,400- 836- 75- 24- A
AA3B 105,704- 724- 73- 12- B
WA1MKE 64,950- 433- 75- 22- A
W3BGN 58,608- 407- 72- 9- A
K3TX 51,948- 351- 74- 9- A
K3WW 50,700- 338- 75- 14- B
K2DOX 44,696- 302- 74- 24- A
N3FOV 43,488- 302- 72- 17- A
WB3AAK 40,460- 289- 70- 18- A
N3HKU 36,314- 271- 67- 9- A
N3GOB 27,604- 206- 67- 14- A
KA1CLH 20,832- 168- 62- 14- A
W3MA 16,384- 128- 64- 10- B
KA3LUW 13,338- 117- 57- 18- Q
N3HLW/T 11,172- 133- 42- 10- A
KR3I 10,400- 100- 52- 7- A
W3FV 9,200- 100- 46- 5- A
KD3AQ 7,200- 100- 36- 5- B
AG3G 4,420- 65- 34- 5- A
KA3NJA 3,264- 51- 32- 2- A
KB3MM 1,638- 39- 21- 9- A
K3VW 1,568- 28- 28- 1- A
K3ND 220- 11- 10- 2- A
KA3ROF (+KA3TGM) 137,314- 967- 71- 20- B

Maryland-DC

K3ZO 235,004- 1526- 77- 24- B
KE3Q 226,996- 1474- 77- 24- B
W3LPL (K3ZZ,op) 222,680- 1465- 76- 24- B
N3AOE 160,816- 1058- 76- 23- B
K3DI 135,736- 893- 76- 22- B
W3UJ 89,250- 595- 75- 16- B
K3IMC 60,300- 402- 75- 15- B
KD3KX 52,998- 363- 73- 23- Q
WA3SQU (W3IDT,op) 37,944- 279- 68- 14- A
KA3TGY 34,224- 248- 69- 17- A
NV3V 32,400- 225- 72- 19- A
N3GTW 26,532- 198- 67- 18- A
KD7JZ 20,296- 172- 59- 11- A
KA3DOF 12,420- 90- 69- 15- A
WB2EKK 2,576- 46- 28- 1- A
KA3LKQ 2,184- 39- 28- 2- B
KA3UBJ/N 1,892- 43- 22- 5- A

Western Pennsylvania

K3TUP 183,008- 1204- 76- 20- B
K5ZD/3 128,136- 843- 76- 11- B
KJ3L 102,718- 667- 77- 19- B
WA3TBW 95,904- 648- 74- 11- A
AD8J/3 46,900- 350- 67- 7- B
W3WC 41,580- 297- 70- 15- A
N3GSC 36,144- 251- 72- 20- A
K3LA 33,232- 268- 62- 9- A
W3KWH (K3RYA,op) 28,728- 228- 63- 8- B
N3GLK 28,704- 208- 69- 16- A
N3BGV 21,960- 183- 60- 17- A
W3TWI 16,790- 115- 73- 13- A
K3UA 10,200- 100- 51- 1- B
KA3QFC (+KA3RQR) 7,134- 87- 41- 8- A

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Alabama

WZ4F 236,544- 1536- 77- 24- B
N4UQD/T 14,592- 152- 48- 13- Q
KM4XX 7,912- 86- 46- 6- A
KD4A 1,452- 33- 22- 3- A

Georgia

AA4LR 94,402- 613- 77- 23- A
K4BAI 85,008- 552- 77- 14- B
WA2FTC 65,450- 425- 77- 24- A
AB4RU 62,480- 440- 71- 24- A
AA4GA 58,200- 388- 75- 10- A
KD3GC 50,464- 332- 76- 20- A
KE4XT 49.432- 334- 74- 14- A
N8LM 35,642- 251- 71- 10- A
K4GKV 33,460- 239- 70- 12- B
KC4UC 26,936- 182- 74- 14- A
KM4GW 19,370- 149- 65- 8- A
W9UIX/4 8,900- 89- 50- 17- A
WG4P 828- 23- 18- 2- A
NR4E (+N4s CXF, JQD) 163,394- 1061- 77- 24- B
W4AQL (AA4FP, KC4JAY, N4s FTK, RMM, VMD, VU2SAS/W4, WA4ABY, WD4DWN, ops) 149,100- 994- 75- 24- B

Kentucky

ND4Y 169,200- 1128- 75- 24- B
WB4FOT 103,026- 669- 77- 22- B
AA4RX 102,718- 667- 77- 23- Q
N4OHW 79,040- 520- 76- 24- A
KB4AMA 60,680- 410- 74- 19- A
KM4DR 45,312- 354- 64- 12- A
KM4FO 33,696- 234- 72- 19- A
KB4BVP 11,000- 110- 50- 24- A

North Carolina

K4PQL 191,064- 1257- 76- 22- B
AA4NC 182,400- 1200- 76- 20- B
KQ1Y 176,016- 1158- 76- 24- B
K4JEX 137,256- 903- 76- 24- B
N4AA 101,324- 694- 73- 18- A
N4ANV 91,808- 604- 76- 15- B
K3LL 73,800- 492- 75- 21- A
N4QY 66,304- 448- 74- 18- A
KJ4TI 64,448- 424- 76- 21- A
KA4HKK 52,682- 371- 71- 19- A
AB4EL 48,720- 348- 70- 17- A
KB4OEN 36,432- 253- 72- 20- A
N4SNC 36,062- 247- 73- 17- A
N4IQA 32,644- 238- 69- 15- A
W8UT 19,642- 161- 61- 5- B
N4GBK 11,284- 91- 62- 7- A
AF4D 3,444- 42- 41- 3- A
N4UH 2,100- 35- 30- 2- A
N4UMI (+KC4GCK, N4s UMI, WIK, XCW) 71,700- 478- 75- 22- A

Northern Florida

K4XS 307,076- 1994- 77- 24- B
NU4Y 81,320- 535- 76- 19- A
N4UF 52,360- 340- 77- 18- A
KK4RV 29,492- 202- 73- 14- A
N4MUH 16,048- 136- 59- 10- A
KC4ES 14,934- 131- 57- 8- A
N4EEB (+KJ4WN) 121,804- 823- 74- 13- B

Puerto Rico

WP4WD/T 66,504- 489- 68- 17- A

South Carolina

WB5M 60,882- 417- 73- 18- A
KJ4KB 44,700- 298- 75- 12- A
KC4IGY/T 20,700- 230- 45- 15- A
NU7F 14,200- 100- 71- 9- Q
KC4LSG/T 7,848- 109- 36- 11- A
N4VYT/T 3,120- 60- 26- 13- A
KØEJ 2,700- 45- 30- 1- Q
N4QWL (+WF2G, AB4MG, KC4HNS) 145,616- 958- 76- 24- B
WA3ZSK (+WA3UDH) 69,750- 465- 75- 24- A

Southern Florida

WA4VQD 68,400- 450- 76- 13- A
WD4AHZ 58,752- 408- 72- 11- A
WA4NNT 34,020- 270- 63- 9- A
W3DHN 17,892- 142- 63- 11- A
WK4F 2,310- 35- 33- 2- B

Tennessee

N4ZZ 255,332- 1658- 77- 24- B
AB4CA 62,338- 439- 71- 12- A
AB4CR 40,500- 270- 75- 14- B
W4AY (WA4ZZU, op) 27,064- 199- 68- 9- A
W4/TF3KX 18,518- 197- 47- 5- A
N4STK 528- 22- 12- 3- A
K4OAQ 504- 18- 14- 1- A

Virginia

W3YY 169,936- 1118- 76- 19- B
AA4UJ 123,728- 814- 76- 20- B
KB4RME 60,648- 399- 76- 20- A
W4XD 55,566- 441- 63- 11- B
W4TMN 50,024- 338- 74- 15- B
WB8OFR 46,292- 326- 71- 15- A
WF4U 41,550- 277- 75- 19- A
AA4XU 30,336- 237- 64- 9- A
WY7U 28,120- 185- 76- 11- A
K4BAM 21,584- 142- 76- 9- A
W2UNS 17,110- 145- 59- 24- A
AA4KD 16,864- 136- 62- 13- A
W4YE 12,100- 110- 55- 3- A
N4WQI 11,232- 104- 54- 8- A
KC7ND 4,900- 70- 35- 5- A
KB4NT (+KC4LOL, KJ4Y, WA4LPR, N9NB) 77,996- 527- 74- 23- A

Virgin Islands

NP2E 33,408- 232- 72- 17- Q

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Arkansas

W9OBF 113,700- 758- 75- 18- A
KB5EHR 47,120- 310- 76- 17- A
WA5SOG 43,112- 317- 68- 11- A
N5KKD 40,320- 288- 70- 12- A
KA5FZL 35,372- 239- 74- 22- B
WA5VBE 34,310- 235- 73- 9- B
K5JH 17,280- 160- 54- 8- A
W9KI/5 600- 20- 15- 4- A
K5JRN 160- 10- 8- 1- A

Louisiana

W5WMU 271,194- 1761- 77- 24- B
W5EW 84,212- 569- 74- 15- A
WB4FDT/5 23,940- 171- 70- 6- A
WB5SSD 8,000- 100- 40- 10- A
WB5RNN 1,632- 34- 24- 4- B
W5GAD (KA5YET, KB5s ENF, KIX, N5s NOA, OGW, OWW, W5BQM, WF5O, WB9VTN, ops) 140,602- 913- 77- 24- B

Mississippi

W5XX 203,126- 1319- 77- 24- B
WA5OYU 166,628- 1082- 77- 24- B
WA5TMC 52,050- 347- 75- 18- A
N5NKZ 13,716- 127- 54- 9- A

New Mexico

K7UP (AA5B, op) 311,080- 2020- 77- 24- B
K5TA 302,764- 1966- 77- 24- B
KB3EI 170,170- 1105- 77- 22- B
WA7YEJ 150,664- 1018- 74- 24- A
KE5BL 77,700- 525- 74- 11- B
AA5JF 73,728- 512- 72- 15- A
AA5MK 34,352- 226- 76- 18- A
N5JXU 12,096- 144- 42- 16- Q

North Texas

WM5G (KRØY, op) 314,160- 2040- 77- 24- B
K5RX 264,726- 1719- 77- 24- B
N5RZ 261,954- 1701- 77- 24- B
KA5W (KS2G, op) 258,720- 1680- 77- 24- B
KC5DX (WQ5W, op) 257,334- 1671- 77- 24- B
K5NW 174,952- 1151- 76- 15- B
K5RR (K5MR, op) 106,950- 713- 75- 11- B
N4QS 103,512- 681- 76- 18- A
WBØNSA 79,800- 532- 75- 23- A
KG5OA 77,184- 536- 72- 12- A
NT5V 75,300- 502- 75- 11- A
AA5KK 74,700- 498- 75- 18- A
K5WXZ 68,552- 451- 76- 22- A
N5DTO 62,900- 425- 74- 17- A
NN5T 62,160- 420- 74- 17- A
W5ONL 56,850- 379- 75- 14- B
W5FO 55,286- 359- 77- 12- B
W5AH 51,246- 351- 73- 12- B
WK5K 28,116- 198- 71- 11- A
N5MUJ 25,742- 211- 61- 14- A
KA5DWR 21,000- 175- 60- 14- A
KO9Y/5 17,136- 168- 51- 4- A
N5MTX 14,560- 140- 52- 8- A
NQ5X 12,896- 124- 52- 5- A
W5DNK 782- 23- 17- 3- B
NJ1V (+AA5OR) 216,832- 1408- 77- 24- B
KW5P (+N5LAU) 191,368- 1259- 76- 23- B
KB5ILS (+KB5ILT) 77,760- 540- 72- 18- A

Oklahoma

KM5H 133,950- 893- 75- 24- A
WM4Z 133,608- 879- 76- 20- A
AA5CO 59,940- 405- 74- 12- A
N5MBD 34,506- 243- 71- 11- A
KG5OE 19,964- 161- 62- 12- B
N5KXI 18,592- 166- 56- 12- A
AA5HV 4,636- 61- 38- 3- A
K5CM (+N5s CG, KW) 251,790- 1635- 77- 24- B

South Texas

NR5M 277,970- 1805- 77- 24- B
W5ASP 181,874- 1181- 77- 18- B
KG5ND 150,458- 977- 77- 23- B
KI3L 91,316- 617- 74- 9- B
KG5U 81,776- 538- 76- 22- Q
WA5IYX 66,368- 488- 68- 14- A
W5XD 63,900- 426- 75- 9- B
KC5CP 48,034- 329- 73- 18- B
N5KAE 47,424- 312- 76- 10- B
AA5LF 41,040- 285- 72- 24- A
N5MRX 33,696- 234- 72- 23- A
WC5D 33,150- 221- 75- 9- A
W5NR 27,852- 211- 66- 10- B
W5UFA 25,276- 178- 71- 16- A
W9AGH 11,534- 79- 73- 14- A
N5JWL 6,080- 80- 38- 5- Q
W5EHM (AA5BT, KA5s CTC, WSS, KF5XR, KG5KI, WR5J, ops) 226,996- 1474- 77- 24- B
N5NDL (+KB5KPA) 27,156- 219- 62- 16- A

West Texas

N5DO 141,526- 919- 77- 19- A
NZ5P 6,396- 82- 39- 4- A
K5RF 4,824- 67- 36- 3- A
WF5E (+N5NA) 208,824- 1356- 77- 24- B

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East Bay

W6BSY 219,604- 1426- 77- 24- B

Los Angeles

N6HC 196,042- 1273- 77- 23- A
WB6JJE 55,350- 369- 75- 19- Q
WB2ODH/6 48,396- 327- 74- 16- Q
WB6NFO 47,740- 341- 70- 21- A
K6SPQ 44,496- 309- 72- 20- B
KF6HI 39,664- 268- 74- 17- A
W6CN 39,456- 274- 72- 23- Q
WB6BXP 17,516- 151- 58- 10- A
WA6HQS 4,092- 66- 31- 6- A
W6GAA (WA6BIL, WB6JCD, ops) 165,858- 1077- 77- 23- B
W6KAT (KB6VNV, WA6SNG, WB6JBL, ops) 61,864- 418- 74- 23- B

Orange

K6HRT 116,888- 769- 76- 19- B
KI6DU 91,008- 632- 72- 24- A
K7YCI 61,488- 427- 72- 10- A
KJ6BW 31,008- 228- 68- 18- B
KJ6JC 30,096- 228- 66- 13- A
K6BVE 16,184- 119- 68- 21- A
N6OUG 11,172- 114- 49- 12- A
KH6WZ/6 10,976- 112- 49- 6- A
KGØF 10,952- 74- 74- 9- A
NM6R 10,404- 102- 51- 12- A
W6TKV 9,200- 100- 46- 24- A
WA6GFR 6,806- 83- 41- 4- A
KC6CUB/T 8- 2- 2- 1- A
KF6OG (+N6s NAS, RPL, WA6OWM) 245,476- 1594- 77- 24- B
WA6YNT (K6HRT, KB6OJC, KC8FEW, N6OUG, WB6IXV, ops) 29,510- 227- 65- 14- A

Pacific

KJ6BZ (KNØE, op) 226,072- 1468- 77- 20- B
K6GSS/KH6 177,870- 1155- 77- 22- A
WH6I 31,688- 233- 68- 11- A
VE7NAX/KH6 13,482- 107- 63- 13- A
AH6IX 8,910- 99- 45- 7- A
KH6RS (AH6s AZ, EE, GP, KH6XT, N6BMK, NH6s EV, SI, ops) 205,808- 1354- 76- 18- B

Santa Barbara

W2KVA/6 188,958- 1227- 77- 23- B
K6VMN 132,770- 935- 71- 19- B
WA6DJS 104,974- 719- 73- 22- B
WA6FGV 90,520- 620- 73- 19- A
W6TKF 27,200- 200- 68- 6- A
WB6VKN 23,546- 193- 61- 8- A
KG6QX 6,468- 77- 42- 4- A
KA6L (+KD6QX, WA6VNO) 168,568- 1109- 76- 21- B

Santa Clara Valley

KJ6FD 164,008- 1079- 76- 24- B
WA9ZBV 96,750- 645- 75- 15- A
N6NF 76,964- 542- 71- 10- B
N6TTO 48,990- 355- 69- 9- A
W6LPW 43,800- 300- 73- 15- A
KG6AO 29,748- 222- 67- 7- B
N6WLF 9,600- 96- 50- 13- A
N6TPT/T 8,652- 103- 42- 6- A
W6IGU 7,200- 60- 60- 8- A
WB6DSV 3,042- 39- 39- 1- A

San Diego

K6XT (KI6ZH, op) 157,388- 1022- 77- 24- A
W6UQF 128,590- 835- 77- 23- A
K6ZH 43,632- 303- 72- 10- Q
W6JXA 10,440- 116- 45- 5- Q
N6UUW/T 5,624- 74- 38- 5- A
AA6EE 1,632- 34- 24- 2- A
W1WEF 768- 24- 16- 1- A
KA6WBQ/N 456- 19- 12- 2- A
N6AWF (+N6ECA, WA6s JBR, JBT, N6RKE) 100,200- 668- 75- 17- B

San Francisco

K6AUD 138,168- 909- 76- 20- B
WA8LLY 132,450- 883- 75- 20- A
WB2CHO 61,124- 413- 74- 11- A
N6AHA 54,300- 362- 75- 9- B
K6LRN 3,000- 50- 30- 2- B
W6BIP (+KI6EZ) 102,268- 691- 74- 15- B

San Joaquin Valley

WW6O 87,472- 568- 77- 20- B
N6WMF 82,688- 544- 76- 20- Q
N6VVK 17,820- 165- 54- 14- A
N6IFW/T 10,710- 119- 45- 14- A
W6DPD 884- 26- 17- 3- A
KC6ESL/T 12- 3- 2- 1- A

Sacramento Valley

W6GO (K3EST, op) 348,194- 2261- 77- 24- B
KV6H 263,956- 1714- 77- 24- B
NB6G 182,336- 1184- 77- 16- B
W1FEA 180,120- 1185- 76- 24- A
WA6AUE 172,788- 1122- 77- 18- B
KF6A 155,232- 1008- 77- 18- B
N6BFN 10,094- 103- 49- 12- A
N6WR (+K6FO) 59,128- 389- 76- 23- A

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Alaska

AL7CQ 242,288- 1594- 76- 22- B
NL7DU 71,568- 504- 71- 17- A
AL7HS 63,450- 423- 75- 22- A
NL7GP 22,156- 191- 58- 2- A
KE4KE 6,794- 79- 43- 10- Q
NL7HT 5,280- 66- 40- 8- A
WL7E 1,700- 34- 25- 2- A

Arizona

K6LL 363,286- 2359- 77- 24- B
KF7NR 211,788- 1431- 74- 24- B
KY7M 98,064- 681- 72- 13- B
AA7BG 75,000- 500- 75- 17- A
K8CSL/7 50,370- 365- 69- 21- A
KF7DN 17,442- 153- 57- 10- A
N9KS/M 390- 15- 13- 1- A
W7ON (+N7FNX) 17,920- 160- 56- 14- A

Eastern Washington

K7FR 179,512- 1181- 76- 23- B
W1TR 78,694- 511- 77- 24- A
N7EFC 72,380- 470- 77- 19- A
W7WMO 58,064- 382- 76- 12- A
W7DAZ 5,412- 66- 41- 8- A

Idaho

WO7Y 206,400- 1376- 75- 24- A
KK7A 205,282- 1333- 77- 24- A
WB7NHS 73,080- 630- 58- 12- A
KE7RT 41,440- 296- 70- 23- A
KA7NOC 560- 20- 14- 1- Q

Montana

KS7T 197,400- 1316- 75- 24- B
K7PGL 139,350- 929- 75- 21- A
KA7YYR 53,728- 368- 73- 22- A
KW7I 32,266- 221- 73- 17- A
N7MVX 24,274- 229- 53- 15- A

Nevada

NC7K 232,386- 1509- 77- 22- B
KZ4H 35,668- 241- 74- 17- A
W7IUJ 33,500- 250- 67- 19- A
WB7VVH 19,154- 157- 61- 10- B

Oregon

W7YAQ 173,250- 1125- 77- 24- A
WA7FAB 131,984- 904- 73- 18- B
N7NFE 95,942- 623- 77- 20- A
KA7SDW 86,792- 571- 76- 23- A
WM7L 76,960- 520- 74- 19- A
AI7W 74,022- 507- 73- 20- A
N7MMQ 46,900- 335- 70- 11- A
W7IMP 44,840- 295- 76- 17- B
KA7OAI 40,870- 305- 67- 14- A
N7HPA 38,994- 291- 67- 13- B
AA6PR 15,730- 143- 55- 7- A
KA6V/7 13,104- 104- 63- 9- B
WB9HZT/7 6,600- 75- 44- 4- B
K7ZMR 3,264- 51- 32- 3- A
AI7B (+W7ZR, WB7RFA) 323,092- 2098- 77- 24- B
NK7U (+N7GPO, NI7T) 267,368- 1759- 76- 24- B
WA7IIM (+N7ENU, W7TWL, WA7OEM, WB7UEJ) 172,788- 1122- 77- 24- B
K7GDN (+N7NOP) 60,532- 409- 74- 17- B

Utah

W7CFL 223,454- 1451- 77- 22- B
K3TA 108,570- 705- 77- 14- A
WT7D 87,330- 615- 71- 14- B
W7HS 54,460- 389- 70- 20- A
K6XO 54,300- 362- 75- 12- A
W7GXC 29,252- 206- 71- 9- A
K7JLF (N7MMB, op) 28,644- 231- 62- 4- A
WA7TUX 23,302- 191- 61- 21- Q
N9KS/M 3,162- 51- 31- 2- A
W7MR (+KE7RU, WE7B, WE7D, WJ7M, WK7V, WY7P) 205,200- 1350- 76- 24- B
WX7L (+KB7IAD, N7MDS) 25,544- 206- 62- 14- B

Western Washington

W7XR (W7WA, op) 362,516- 2354- 77- 24- B
K7LR 270,732- 1758- 77- 24- B
K7LXC 194,348- 1262- 77- 24- A
K7SS 130,130- 863- 77- 23- Q
N7LOX 127,020- 870- 73- 20- A
N7KZN 85,576- 563- 76- 21- A
WA7PVE 72,854- 499- 73- 18- Q
K7RA 53,576- 362- 74- 13- A
KY7K 47,376- 329- 72- 21- A
W7LRD 47,302- 353- 67- 12- A
N7MJZ 31,476- 258- 61- 24- A
KF7UT 30,912- 224- 69- 19- A
W7LKG 26,784- 216- 62- 9- B
KB7GEW 22,326- 183- 61- 24- A
WA0RJY 22,320- 186- 60- 13- A
KD7LJ 21,320- 164- 65- 11- A
KD7C 14,112- 126- 56- 9- A
K7IDX 13,650- 91- 75- 24- A
N4SL 9,600- 100- 48- 2- A
N7AME 6,750- 75- 45- 3- A
N7LXQ 6,240- 65- 48- 12- A
NØAX/7 3,740- 55- 34- 2- A
KR7L 2,976- 48- 31- 9- A
W7WG 2,350- 47- 25- 4- A
W7VIH 2,150- 43- 25- 3- A
NB7N (+NN7L) 181,488- 1194- 76- 24- B

Wyoming

K7MM 256,102- 1663- 77- 24- B
KD7RX 114,594- 807- 71- 18- A
WC7S 81,936- 569- 72- 18- A
NC7O 28,644- 217- 66- 12- Q
KB7M 16,384- 128- 64- 13- Q
NQ7Q 11,628- 114- 51- 5- A
WB7I 180- 10- 9- 1- B

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Michigan

KB8TI (NØAON, op) 185,878- 1207- 77- 22- B
N8CXX 126,392- 854- 74- 17- B
NE8O (KA8JBK, op) 119,928- 789- 76- 21- A
N8BTU 109,152- 758- 72- 20- B
KE8OC 97,736- 643- 76- 18- B
KA8GOM 95,922- 657- 73- 22- A
K8RDJ 90,900- 606- 75- 20- A
K8GSR 82,232- 541- 76- 24- B
WD8S 77,770- 505- 77- 17- B
W8UMP 75,150- 501- 75- 24- A
K8DD 74,606- 511- 73- 12- B
KE8KG 74,592- 504- 74- 17- A
K8SAK 69,900- 466- 75- 22- A
KW8G 66,528- 432- 77- 15- A
K8SB 50,250- 335- 75- 12- A
NS8F 48,988- 331- 74- 20- A
N8JVN 48,852- 354- 69- 22- A
WA8FRD 45,220- 323- 70- 19- A
NS8V 43,800- 300- 73- 12- A
KB8DLH 43,216- 296- 73- 16- Q
KC8LD 42,480- 295- 72- 20- A
WA8YPY 41,300- 295- 70- 20- A
WB8THO 38,036- 257- 74- 14- A
KA8WBQ 36,328- 239- 76- 15- A
K8KUH 35,464- 286- 62- 15- B
K8ZJU 35,190- 255- 69- 14- A
W8PDV 33,000- 220- 75- 17- B
W8TJQ 32,900- 235- 70- 15- A
WB8TOT 32,294- 241- 67- 12- B
KA8IZE 31,280- 230- 68- 19- A
WA8QAF 30,646- 199- 77- 12- A
N8IOR 29,054- 199- 73- 20- A
W8VWY 28,676- 214- 67- 16- Q
K3UWO 25,200- 200- 63- 16- A
N8FPN 22,836- 173- 66- 11- A
AC8W 22,816- 184- 62- 7- A
N8HSN 21,576- 174- 62- 19- A
KB8CRR/T 21,340- 194- 55- 19- B
NX8K 19,886- 163- 61- 21- A
WA8MJY 19,880- 142- 70- 6- A
W8VPC 19,234- 163- 59- 6- B
WR8F 18,800- 200- 47- 12- A
W8MAA 18,788- 154- 61- 12- A
WB8TQZ 15,162- 133- 57- 10- A
WB8AFO 14,946- 141- 53- 7- A
WD8R 14,592- 128- 57- 10- A
W8PPG 14,190- 129- 55- 12- A
N8JQA 12,540- 110- 57- 9- A
W8EGI 11,660- 110- 53- 5- A
WD8MDA 11,396- 154- 37- 8- A
WB8JYX 10,878- 111- 49- 5- A
KA8DAW 10,600- 106- 50- 12- B
KA8QHM 9,200- 100- 46- 15- A
WD8KZX 8,858- 103- 43- 7- A
KA8KGW/T 7,296- 96- 38- 24- A
KE8GC 6,132- 73- 42- 6- A
WB8HNJ 4,680- 60- 39- 5- A
N8HFM 3,478- 47- 37- 10- A
WA6CYF 3,420- 57- 30- 4- A
KE8QT 3,400- 50- 34- 3- A
KA8ZUP/T 3,186- 59- 27- 8- A
W8QIY 2,668- 46- 29- 3- A
N8KWQ/T 2,450- 49- 25- 7- A
KB8FWS 2,116- 46- 23- 4- A
KB8HMA/T 2,000- 50- 20- 7- A
W8KZM 1,596- 38- 21- 1- B
K8AMG 1,200- 30- 20- 7- A
KB8HGM/N 850- 25- 17- 3- A
K8AQM 836- 22- 19- 1- A
WB8LZG 798- 21- 19- 3- Q
KB8DRY/T 600- 20- 15- 1- A
KB8CHA 192- 16- 6- 2- A
W8ROS 140- 10- 7- 2- A
N8KZG (+KB8GEI, WB8OBR) 52,560- 365- 72- 23- A

Ohio

K8BL 142,142- 923- 77- 24- A
K8MR 102,450- 683- 75- 13- B
W8FN 101,084- 683- 74- 11- B
W8UPH 87,750- 585- 75- 22- A
W8KIC 78,736- 518- 76- 21- A
N8IJC 63,536- 418- 76- 15- B
WA8KIW 55,632- 366- 76- 21- A
NS8G 54,112- 356- 76- 19- A
NC8V 50,700- 338- 75- 11- B
NQ8Y 47,850- 319- 75- 23- Q
KC8JH 47,088- 327- 72- 6- B
W8PC 33,540- 258- 65- 16- B
NW4G 31,680- 240- 66- 9- A
KQ8M 30,530- 215- 71- 5- A
WU8R 29,960- 214- 70- 13- A
KA8WAS 29,896- 202- 74- 16- A
WD8AJF 29,104- 214- 68- 24- A
WA8RJF 28,080- 195- 72- 14- Q
WD8AIL 27,972- 189- 74- 15- A
W8NHO 26,082- 207- 63- 18- B
NU8U 25,476- 193- 66- 13- A
K8NZ 22,200- 185- 60- 4- A
WV8B 21,576- 174- 62- 11- A
KD8UC 17,172- 162- 53- 16- A
AF8C 16,940- 154- 55- 6- A
WB8WTS 15,900- 159- 50- 4- A
N8KAG 15,476- 146- 53- 7- A
WD8AIG 14,616- 126- 58- 11- A
W2SV/8 (WB2DIN, op) 12,420- 115- 54- 3- B
K8MZH 12,312- 114- 54- 7- A
NN8M 9,800- 100- 49- 11- A
WV8P 8,084- 86- 47- 9- Q
N8LMB 7,546- 77- 49- 5- A
K8CKY 6,794- 79- 43- 7- A
WD8CTX/T 4,060- 70- 29- 6- A
KD8UN 3,128- 46- 34- 9- A
K8CX 2,600- 50- 26- 1- A
W8PN 1,428- 34- 21- 2- B
KB8DWL/N 756- 27- 14- 4- Q
KW8N (+NZ4K, KD8NS, KU8E, WD8IJP) 260,106- 1689- 77- 24- B
WD9INF (+KN8R) 207,480- 1365- 76- 24- B
N8EKE (+N8IKX, WB3KKX) 200,816- 1304- 77- 22- B
WD8EOL (+KA8OQF, KB8GHV, WB2DIN) 109,744- 722- 76- 24- B
WA6EZV/8 (+N8ASV, WD8s NMT, NMV, NNB) 57,288- 372- 77- 14- B
WB8MIP (+WB8s PIY, ZYD) 55,200- 400- 69- 9- B
N8KTW (+KM4TS, KA8MMG, KB8CPT, N8s LMJ, LMQ) 18,868- 178- 53- 12- A

West Virginia

W8TN 95,192- 652- 73- 12- B
WA8DGE 50,512- 328- 77- 14- A
KB8FAK 17,934- 147- 61- 20- A
WO8V 4,526- 73- 31- 4- A
KQ3S (+K3LDE, W3s DQI, PYZ, WA3QGA) 139,678- 907- 77- 24- B

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Illinois

K9ZO 152,456- 1003- 76- 24- A
WA9TPQ 114,000- 750- 76- 24- A
K4XU 110,726- 719- 77- 12- A
KA9TNZ 105,000- 700- 75- 12- B
WB9TIY 84,900- 566- 75- 12- A
N9AEJ 76,200- 508- 75- 10- B
N2CKZ 59,250- 395- 75- 22- A
WB9GKA 57,600- 384- 75- 21- A
W9LNQ 54,978- 357- 77- 12- A
K9GH 54,316- 367- 74- 20- A
KE9PM 53,060- 379- 70- 13- A
W9TM 52,984- 358- 74- 15- A
N9BBM 51,800- 350- 74- 19- A
KB9BMW 49,640- 340- 73- 24- A
WI9N 37,950- 275- 69- 18- B
K9DKJ 37,000- 250- 74- 15- A
K9BGL 36,138- 317- 57- 4- B
NØFFZ 33,456- 246- 68- 18- A
WA9F 31,200- 208- 75- 22- B
KB9UG 30,774- 223- 69- 24- A
AA9F 23,256- 153- 76- 12- A
W9CQD 21,840- 156- 70- 9- A
W9RW 20,764- 179- 58- 7- B
W9REC 20,502- 153- 67- 15- A
WA9OUE 20,352- 159- 64- 10- B
K9UQN 20,300- 175- 58- 6- B

Indiana

AJ9C 162,778- 1057- 77- 24- B
KBØC 131,978- 857- 77- 21- B
N9QX 129,052- 838- 77- 24- B
NJ9C 107,616- 708- 76- 17- B
W9JOO 85,350- 569- 75- 24- A
N9DHX 53,808- 354- 76- 22- Q
N9HAV 38,340- 270- 71- 19- A
WF9P 38,304- 266- 72- 15- A
NX9A 29,600- 200- 74- 10- A
WM9M 21,648- 164- 66- 7- A
W4WQD 20,414- 173- 59- 21- A
KA9CVW 18,056- 122- 74- 11- A
W9CGI/T 7,194- 109- 33- 12- Q
K9RS (+AC9C, AG9A) 242,242- 1573- 77- 68- B
WA9NPM (+N9IID) 116,100- 774- 75- 22- B
W9WWI (N9HOV, NX8B, WB9N, NET, ops) 69,450- 463- 75- 21- A
WD9HQH (+N9GTJ) 22,770- 165- 69- 16- A
N9HYR (+KB9BNF) 5,304- 78- 34- 14- A

Wisconsin

AA9A 177,408- 1152- 77- 24- B
WE9V 171,710- 1115- 77- 24- A
K9OSH 168,568- 1109- 76- 22- B
WØNBH (NØBSH, op) 158,928- 1032- 77- 24- A
KA9FOX 141,218- 917- 77- 24- A
W9XT 138,320- 910- 76- 19- B
WA1UJU 118,560- 780- 76- 24- A
KO9Q 78,450- 523- 75- 13- A
K9RR 67,500- 450- 75- 18- B
W9NA 64,950- 433- 75- 34- A
KNØZ 64,752- 426- 76- 17- A
KT9W 61,632- 428- 72- 9- B
W9WI 57,312- 398- 72- 15- A
K1TMM 48,962- 329- 74- 24- A
K9KR 46,944- 326- 72- 13- B
N9EAX 32,376- 228- 71- 10- A
N9GNQ 31,824- 234- 68- 15- A
W9FPA 27,064- 199- 68- 14- A
WB9BWP 26,800- 200- 67- 12- A
W9RZW 25,872- 196- 66- 13- A
KB9BIZ 12,192- 127- 48- 7- B
W9VTL 7,120- 89- 40- 8- A
NI9C 6,004- 79- 38- 2- A
N9DMG 5,040- 63- 40- 3- A
W9KHH 3,200- 50- 32- 1- A
N9IOE 2,016- 42- 24- 3- A
K9CAN 1,352- 26- 26- 1- A
N9IJY (+N9NE) 37,592- 254- 74- 10- A
WA9AKV (+KA9WXN) 16,416- 144- 57- 11- A

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Colorado

KØRF (WØUA, op) 314,776- 2044- 77- 24- B
KØEU 234,542- 1523- 77- 24- A
WØPSY 203,280- 1320- 77- 24- B
W1XE 196,536- 1293- 76- 24- B
NØZA 162,316- 1054- 77- 22- B
WØOSK 158,312- 1028- 77- 23- B
KØFRP 122,512- 806- 76- 21- Q
WØCP 120,600- 804- 75- 24- A
WØUC 117,648- 774- 76- 17- A
ACØS 69,546- 519- 67- 8- B
NØEPF 48,240- 360- 67- 17- A
KEØPX 47,286- 333- 71- 20- A
NØHOT 46,292- 326- 71- 20- A
KAØJDE 34,438- 257- 67- 11- A
KØBQL 33,098- 247- 67- 7- A
NYØR 30,240- 280- 54- 8- B
KRØU 27,472- 202- 68- 8- Q
K2NA 23,976- 162- 74- 5- A
NQØI 16,218- 153- 53- 2- B
WØNIZ 13,386- 97- 69- 11- B
KØGAS (+KJØG) 188,342- 1223- 77- 24- B

Iowa

NØICI 165,704- 1076- 77- 0- B
KCØGM 99,450- 663- 75- 20- A
WAØVBW 70,224- 462- 76- 22- Q
WA4TWB 63,936- 432- 74- 7- B
KFØAU 53,504- 352- 76- 23- A
KEØWO 49,404- 358- 69- 23- A
WØPPF 44,696- 302- 74- 23- B
KBØBUV 19,886- 163- 61- 9- A
WNØG 19,040- 170- 56- 5- A
KØEVC 17,264- 166- 52- 14- A
KAØVBA 14,112- 147- 48- 10- A
KFØAD (+KBØs CRG, DNA) 59,052- 399- 74- 21- A

Kansas

AD7G 166,936- 1084- 77- 21- B
WBØYJT 84,816- 558- 76- 22- A
KBØG 43,808- 296- 74- 8- B
NE4F/Ø 21,440- 160- 67- 5- B
NØHYG 15,568- 139- 56- 14- A
WTØE 9,600- 100- 48- 7- A
NIØS 9,384- 92- 51- 3- A
NOØY 4,422- 67- 33- 8- Q
KØEUX 4,140- 69- 30- 5- A
NØFMR 680- 20- 17- 3- A
WØCEM (+ABØS, KØWA) 232,694- 1511- 77- 24- B
KAØRID (+WKØR) 58,826- 439- 67- 21- A

Minnesota

NØAT 238,084- 1546- 77- 24- B
KØIJL 174,328- 1132- 77- 22- B
KØTT 152,460- 990- 77- 20- B
KBØCWV 143,488- 944- 76- 24- B
KØFVF 133,760- 880- 76- 16- B
KØHB 130,264- 857- 76- 21- A
KBØZQ 124,432- 808- 77- 22- A
ACØW 119,658- 777- 77- 24- A
KØFZG 113,240- 745- 76- 24- A
K3WT 105,408- 732- 72- 12- B
WØHW 75,180- 537- 70- 10- B
W9RXJ 74,314- 509- 73- 22- B
KØAD 66,240- 460- 72- 9- B
WAØRBW 64,084- 433- 74- 8- B
WØYHE 60,900- 406- 75- 23- Q
WBØHCH 58,788- 414- 71- 16- A
KØTO 53,340- 381- 70- 8- A
KSØT 49,392- 343- 72- 10- A
WBØZUR 47,158- 323- 73- 13- A
WAØQVC 41,272- 268- 77- 20- A
WBØYUC 38,896- 286- 68- 11- A
WAØWWW 34,500- 250- 69- 9- A
NØHJZ 29,212- 218- 67- 8- A
KAØZIA/T 12,096- 126- 48- 8- A
WØNGB 11,832- 116- 51- 7- Q
WBØSYL 10,028- 109- 46- 24- A
WAØMHJ 5,694- 73- 39- 1- B
KRØB (+AF9T, KØII, KJØB, NØBKL) 231,308- 1502- 77- 24- B
WB2V (+KCØZC, NØBSG, NJØC) 123,000- 820- 75- 24- B

Missouri

K4VX/Ø (WOØG, op) 257,796- 1674- 77- 24- B
KMØL 185,878- 1207- 77- 24- B
KIØW (KAØYBS, op) 104,880- 690- 76- 12- B
KØDEQ 56,516- 398- 71- 8- B
KFØFS 28,032- 192- 73- 18- Q
KØHOF 25,476- 193- 66- 16- A
WWØY 23,718- 177- 67- 9- A
WBØQLU 20,440- 146- 70- 13- A
NØHBH 17,024- 133- 64- 18- A
WXØG 12,190- 115- 53- 7- A
WEØR 10,400- 104- 50- 7- Q
KFØFR 5,168- 68- 38- 4- A
KAØP 2,100- 42- 25- 3- A
WØQEV (WB3BQU, KA8CBX, KE9HW, N9IAQ, KAØs VYF, WCH, KBØDIP, NØIAT, JA7HKB, ops) 139,080- 915- 76- 24- B
KK2G (+WBØWKF, WDØGFG) 68,850- 459- 75- 22- A
WBØMHU (+WAØOUI) 38,760- 285- 68- 10- A

North Dakota

WBØO 312,928- 2032- 77- 24- B
KØVWG 85,272- 561- 76- 18- B
KE9QT 17,700- 150- 59- 11- A

Nebraska

KVØI 203,280- 1320- 77- 24- A
KØSCM 180,272- 1186- 76- 24- A
KØFPV 66,272- 436- 76- 20- A
WBØJWQ 47,472- 344- 69- 15- A
KØGND(+KAØWRZ, KBØQH, KNØRKY, NØIVP, WAØs WRI, YPY, WBØs QLH, WKR, WSL, WDØEGK) 161,728- 1064- 76- 24- B
WØBJQ (KBØBUM, KCØFM, NØGVK, WBØDGE, WDØCKL, ops) 105,120- 730- 72- 24- B

South Dakota

WBØMWJ 126,920- 835- 76- 18- B
KØWIU 50,078- 343- 73- 14- A

VE

Maritime-Newfoundland

VE1BEM 166,320- 1080- 77- 16- B
VE1AUE 17,280- 144- 60- 18- A
VE1AGE 8,096- 88- 46- 3- A
VO1AW 5,084- 62- 41- 4- A

Quebec

VE2MS 66,880- 440- 76- 23- A
VE2MAB (VE2s BRT, ESP, GOP, MAJ, MPD, MTM, TD, YW, ops) 50,260- 359- 70- 24- A

Ontario

VE3FSV 30,464- 224- 68- 13- A
VE3NYT 30,096- 209- 72- 16- A
VE3TPB 29,952- 234- 64- 9- A
VE3TJL 23,312- 188- 62- 14- A
VE3ST 22,800- 152- 75- 9- A
VE3OMU 18,012- 158- 57- 12- A
VE3VET 15,768- 146- 54- 14- A
VE3SFK 14,740- 134- 55- 7- A
VE3BXY 10,208- 88- 58- 10- B
VE3XD (VE3s FPI, GAS, LNS, ops) 191,576- 1244- 77- 18- B

Manitoba

VE4GV 198,352- 1288- 77- 23- A
VE4JK 103,950- 675- 77- 16- B
VE4AMC 95,304- 627- 76- 19- A

Saskatchewan

VE5AG 205,960- 1355- 76- 24- B
VE5ZX 194,864- 1282- 76- 24- A

Alberta

VE6ATT 157,916- 1067- 74- 20- A
VE6UX 144,298- 937- 77- 19- B
VE6DZ 45,630- 351- 65- 15- A
VE6RI 20,460- 155- 66- 13- A
VE6SH 18,012- 158- 57- 7- Q
VE6NN (+NU6K) 39,064- 257- 76- 23- B

British Columbia

VE7SZ 214,214- 1391- 77- 19- B
VE7EKS 6,942- 89- 39- 15- Q
VE7HR (+op) 16,284- 138- 59- 15- A

Northwest Territories

VE8CM 8,004- 87- 46- 7- B

Checklogs

N1DCO, N1EDM, W2KTF, KO4D, W4MTE, N5NKZ, WA6HRK, VE3AWE/W6, KL7UR, NL7GP, W8LQA, W8VUV, NØGOS, VE1ACK

Disqualified

CW: WZ4F

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