

Results, 1990 ARRL November Sweepstakes

Loads of activity, good conditions, big scores. Great fun!

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Sweepstakes is dying. This sentiment received a lot of press in the *National Contest Journal (NCJ)* last year. Over the past 12 years, participation has declined (most noticeably on CW), and scores have remained flat. Participation peaked in 1978 with a record 2997 logs received and 112 club entries. It's been downhill ever since. In contrast, DX contests (both phone and CW) are enjoying tremendous popularity.

So what's wrong with Sweepstakes? Many *NCJ* readers zeroed in on one area: lack of participation. The old hands complained that the contest is boring. They work the same stations year after year. Sunday can be deadly dull, especially on CW, as QSO rates plummet because you've already worked most of the active stations. "We need some new blood," the old hands said.

That's a problem. Let's face it: Sweepstakes can be intimidating to newcomers. The exchange is long and complicated. On CW, the bands are crowded and the average speed is something over 20 WPM. Competition is tough, and it's difficult to win a Section-level award in any category.

Sweepstakes was caught in a vicious cycle. Bored, the old hands found something else to do—like spend time with their families so that they could operate the exciting *CQ* Worldwide DX Contests that bracket the Sweepstakes weekends. And newcomers stayed away in droves. Making the contest even more boring for the old hands...

Not content to let Sweepstakes continue its downward spiral, the League took three steps to bolster activity and attract new blood. We offered participation pins for anyone making 100 or more contacts on either mode; created a slow-speed CW seg-

ment on each band where operators could escape the speed merchants; and published a detailed nuts-and-bolts article, "Sweepstakes for Beginners," in October *QST* to take the mystery out of the contest.

It worked! When the dust settled at the end of the CW weekend, it was apparent that something special had happened. On the Monday after, we received a number of phone calls from excited participants—old hands and new guys alike—telling us what a good time they had. Conditions were excellent, and participation and scores were way up. The deadly Sunday doldrums were history. Two weeks later there was a repeat performance for the phone contest. The Contest Branch filing cabinets are bulging from the logs you sent: 1247 CW entries (up 53% from last year, but down from 1978's record 1490); 1657 phone entries (up 67% from last year, and easily a new record); and 39 checklogs. The grand total is 2943—just shy of 1978's record 2997.

Scores were up across the board. A total of 57 new division records were set—25 on CW and 32 on phone. Not since 1978 have so many records been broken in one year. This year's average phone score was 53,029 points (374 QSOs, 60 multipliers), and the average CW score was 48,927 (351 QSOs, 60 multipliers).

The pin program played to rave reviews. Carl, N1CUU, summed it up: "The pin program was a great idea. It encouraged me to try Sweepstakes for the first time." And Tom, W6HT, said, "This was the first Sweepstakes I've entered in more than 20 years as a ham. The new participation pin was the incentive for me to give the contest a try." Later this month, we'll be sending

out almost 1500 pins to those of you who requested them.

Slow-speed CW segments also drew applause. Pat, N7MPS, notes, "The slow-speed section was a great idea. It allowed me to get in there and get the rhythm of the exchanges. Once I had it, I moved in with the fast guys!" And Roy, VE6ALP, says, "Please keep the slow-speed segment! I would not have participated otherwise." Don't worry, Roy. The slow-speed segment is here to stay.

One attraction of Sweepstakes is that it's possible to work all of the multipliers (77 ARRL Sections) for a "clean sweep." In fact, some people have made a game out of making 77 contacts—with 77 sections. This year, clean sweeps were scarce on CW, with only five ops making the mark. Eighteen folks missed a sweep by only one section. On phone it was a different story: 215 clean sweeps and 91 near misses.

When the CW scores were tallied, Trey, WN4KKN, guest operating at N5AU, once again took the top spot among High-Power CW single ops. Trey's 198,750-point score is a new all-time record, and his QSO count is up to 1325 from last year's 1180. George, W0UA, operating at K0RF, was 8k behind, moving up from third place in 1989. Another guest operator, Bill, K5GA, finished third at 189k points from W5WMU's station. Competition was so fierce this year that last year's *top* score wouldn't even have made the Top Ten.

In the Low-Power CW category, Ralph, N5RZ, finished in first place and set an all-time record at 167,700 points. Last year, Ralph finished second with 937 QSOs; this year, he made 1118! Fred, W2TZ, moved

CW Division Leaders

Division	High Power	Low Power	QRP	Multioperator
Atlantic	*K3LR	*W2TZ	W3FAF	KA3WDW
Central	W9XT (AC9C,op)	*K4XU	*N9NE	W0AIH
Dakota	N0AT	W0UC	*WB0O	*WD0T
Delta	*W5WMU (K5GA,op)	*N4ZZ	W9OBF	K14UZ
Great Lakes	*K8CC	KV8Q	*K8BL	W8EDU
Hudson	*K1ZM	KD2RD	*W2GD	WA2UKP
Midwest	*K4VX (AG9A,op)	KV0I	WV0P	*K0GND
New England	W1WEF	K1TR	KH6CP/1	W1OP
Northwestern	W7XR (W7WA,op)	*K7LR	*K7SS	WB7QIW
Pacific	*W6GO (N6IG,op)	W1FEA	*W6JTI	WX9B
Rocky Mountain	*K0RF (W0UA,op)	*K0EU	K0FRP	A19X
Roanoke	K4PQL	N4AA	W8JWX	NJ4F
Southeastern	N4WW (K0LUZ,op)	KM9P/4	K4MF	W4AQL
Southwestern	*K6LL	K7OX	*N7IR	K76V
West Gulf	*N5AU (WN4KKN/5,op)	*N5RZ	AA5KK	WF5E
Canada	VE2AQP	VE4VV	*VE7YU	VE3ART

*denotes new division record

Phone Division Leaders

Division	High Power	Low Power	QRP	Multioperator
Atlantic	*K3ZO	K3MQH	*K3DI	W2OW
Central	*AG9A	*AJ9C	N9DHX	*W9XT
Dakota	*WB0O	*KN0Z	W0YHE	*WD0T
Delta	*W5WMU	*N4ZZ	*W9OBF	K5TYP
Great Lakes	*KW8N (NZ4K,op)	N8CXX	AA4YZ	*WD9INF
Hudson	WB2K	WA2STM	*KD2TT	KY2J
Midwest	K4VX	*K0SCM	WZ8M	W0CEM
New England	*WB1GQR (WB2JSJ,op)	KZ1M	KH6CP/1	*K1NG
Northwestern	W7NI (A17B,op)	*K7QQ	*K7SS	*W7ZR
Pacific	*W6GO (N6IG,op)	W1FEA	AJ6T	*NC7K
Rocky Mountain	K7MM	WB0KN	WB0GAZ	*AA5B
Roanoke	W4MYA	W4MYA	*WF4J	WB9OFR/4
Southeastern	K4XS	WD4AHZ	*KB4GID	W4AQL
Southwestern	K6LL	W6UQF	*WB20DH/6	*KF6OG
West Gulf	*N5AU (WB5VZL,op)	KM5H	AA5KK	KW5P
Canada	VE1BEM	*VE4GV	*VE6SH	*VE3XD

*denotes new division record

QQ SS from the Yukon

I'd been packed and ready for the contest for weeks. Because this was my first contest, I wanted to remember it for years to come. I chose to operate 10-meter phone from the Yukon because of the fun I had on previous trips (portable operations and from VY1AU, VY1QST and VY1DX).

Friday, Nov 16: I left Anchorage, Alaska, at 5:15 AM. Nine hours and 430 miles later, I pulled into Ida's Motel & Cafe at Beaver Creek, Yukon (milepost 1202 on the Alcan Highway, 20 miles from the Alaska border). Several moose and caribou were seen along the way. It was windy and at least -10°F when I set up as NL7TB/VY1. My rig was a Yaesu FT-747GX HF transceiver, barefoot to a chopped 11-meter ground-plane antenna on a 30-foot push-up mast mounted on my van's bumper. The antenna didn't end up as "vertical" as planned, even with the three guy ropes attached (the ten o'clock position was the best I could obtain on my own). Some of the locals asked if I had parked my own television station outside my motel room. I'd forgotten how difficult RG-8U coax is to work with at this temperature. Two hours later I was QRV with stinging feet and face. I made a couple dozen contacts with the lower 48 during testing/check-out (5 PM local time) until the 10-meter band closed down. I was informed that NL7TB/VY1 was all over California packet radio!

Saturday, Nov 17: 10 meters didn't reopen until an hour before the contest started, and quickly shut down about six hours later. Propagation "up here" was disappointingly fair at best. I only netted 42 QSOs. The QRM and QSB made it frustrating. NN2T was the first to pounce on my call and mentioned that he put me on W2-land packet radio. I could see now that I was really going to have to work for the ARRL 100-QSO achievement pin.

Sunday, Nov 18: 10 meters reopened at 9 AM and hung in there until about 6PM local time. The last couple of hours of the contest had the best conditions (Murphy's Law). Most signals were now 5 x 9. I managed to rack up 95 more QSOs, but had to struggle for the early ones. Even though I averaged only 10 contest contacts per hour, it was exciting operating from the beautiful, majestic Yukon! I worked 54 of the 77 multipliers.



John Reisenauer, NL7TB/VY1, adjusts his bumper-mount antenna in Beaver Creek, Yukon.

On the humorous side, I was told the following: "Thanks for moving to the Yukon for me," "You're my hero," "Yukon, do I love you," "Man, I've been looking for you," "Thanks for the clean sweep and don't freeze your mike," "By far, the most commonly heard was "Thanks for being there." I couldn't begin to describe how good that made me feel.

Monday, Nov 19: Dismantling the station was a snap compared to setting it up, even in the eight inches of new Yukon snow. I left Beaver Creek, still pumped up from the contest, at 8:30 AM. The return trip was quite a challenge (glare ice, semidarkness most of the time, dumb caribou on the road and six inches of new snow in Anchorage).

The warm hospitality at Ida's and the "thanks for being there" heard on the radio will bring me back to the Yukon again. I had a fantastic time!

—John Reisenauer, NL7TB/VY1

(K1UCA). There was a lot on this year—it must have been the pin (KC1CU). The most fun was being able to wish W6BIP a happy birthday on the air! (K2DW). This is the first year I used a computer for logging and duping. I actually enjoyed myself! (WA2YEI). After 27 years of coming up one or two short, I finally made a clean sweep! (WA2UDT). I didn't run up a big score, but it was fun to participate, even for an hour or two and I did work some new states (WK2P). This was my first contest! I was able to work 57 Sections and 42

states with a modest station in just 12 hours (N2LDE). How could I have missed WV? (WV2B). I didn't have a lot of time to spend in the contest, but once I got into the spirit, it was a lot of fun. It was nice to get great reports from my QRP signal! (WE3C). I had just gotten my new call sign a week before the contest. My apologies to those answering my call when I was listening for my old call sign (WG3E). After almost two years of being a ham, I entered Sweepstakes, my first contest. I didn't set the world on fire, but I did have

fun and qualified for my pin (KA3TUG). Many ops took the time to welcome me to my first SS after hearing my check of 90 (N3IOE). What I like about this contest is that the exchange is more than just a meaningless signal report (KD4RO). It was impossible for me to log 135 contacts an hour with such a long exchange. I wore out six pencils! It was encouraging to hear many 89 and 90 checks being given out (K4XS). This was my first Sweepstakes. It may become habit forming! Every operator I talked to or heard was polite and went out of his way to make the contest a good time (N4SXY). I'm sure I didn't score very high, but at least I qualified for the pin (WA4PKP). True happiness is spending an inordinate amount of time attempting to dig out a weak QRP station and discovering it's the last Section you need for a clean sweep. Thank you, K1TR! (K3SW). I don't think I've mastered combining online computer logging and push-to-talk yet! (W3FTG). We knew it was going to be a good contest when VE8 called us for QSO number 63 (N4CWP). This was my first SS running QRP—it won't be my last! (K5IID). I beat last year's Section record, my previous personal record and still didn't win the Section! (KSIG). This is the first time I've submitted a contest log in 18 years as a ham! It was great fun (KC5ND). After three months of work on the antennas, I thought everything was ready. Then the rig died with three hours left in the contest (W5AH). Where were the VE7s? (K5TSQ). I took a 55-minute break and came back to find a VE8 calling me on my frequency (WC5D). This was my first time with online software. I fumbled with the keyboard for a few hours, but enjoyed this SS more than several recent ones (N6RO). What a great time I had. You don't need an amplifier and a huge antenna farm to have fun (KI6DS). This was my first Sweepstakes. I knew I wouldn't be the top scorer, but I just have to have one of those pins! (KK6CL). I almost missed my clean sweep (N6JM). This was my first SS from Alaska—the propagation was weird! I have to redo my band plans (AA6DX). I saw the Aurora Friday morning and knew this would be a tough contest (AL7MK). It was a thrill to get a clean sweep for the first time in many years (KY7M). This was my first phone SS ever. It was fun (W7GB). It's amazing what can come out of your mouth after being on the air for nine straight hours and you start getting punchy (KE7UH). This was my first Sweepstakes in 37 years. I did it by myself and had a ball (W7UDZ). I enjoyed my first SS! I couldn't find a PQ, though (N8FEH). SS is just plain fun! I look forward to it every year, no matter where I am! (KE8FO). This was my first contest, outside of Field Day. It was just plain fun! I see a computer in my future to handle all this paperwork (WD8AHL). I got Murphy out of the station and he got into my vocal cords. Not to worry, though, this was my best year yet! (WB8JKR). This contest seemed to bring out the good ops. The activity was great on all bands (KA1S). This was my first Sweepstakes since 1970 and my first clean sweep ever! (K8RC). What a great contest! The offer of a pin gave someone like me, with limited time and resources, something to aim for. I'm already looking forward to next year (K8OUA). This was the first time I participated in SS. (KC8FS). I only wanted to make enough QSOs for the pin, but the contest fever got to me (KE8SX). As usual, the VE8s, KP2s, KP4s and KH6s were hard to come by (WB9GKA). I didn't have much time to operate, but I was thrilled to get a clean sweep (N4CC). It was a great contest and I had a great time. Low score doesn't mean low enjoyment (N9RO). My dipole resonates somewhere, but apparently not in any of the bands I operated on (K9JK). This is my first Sweepstakes after being a ham for 17 years. Next year I'll set even higher goals for myself (N9HAS). Everybody here at our multiop seemed to enjoy themselves. That's what it's all about (N9JC). I've now had a clean sweep using high and low power. Can a QRP clean sweep be possible? (K9OSH). The most fun part of the contest was in the Novice subband, where I found many new quality operators (WB0GAZ). My second SS and I had 20,000 more points! Now, if only the XYL understood (N0EPF). Conditions were great. I had my first clean sweep (KF0GV). After five years of SS from Wisconsin, it was tough getting used to saying Minnesota again (N0BSH). My first sweep! (K0HB). After 29 years of hamming, this was my first phone contest. Who says you can't teach an old dog new tricks? (WB0IHR). I haven't entered any contests before, but the goal of a pin was motivating (VE3PPE). Who needs high power with the great sunspot cycle! (VE4AMC). I can't wait until the next SS (VE6ALP). VE7s were as scarce as hen's teeth. I had to ask a ragchewer for a contact (VE7EL).

Affiliated Club Competition

Club	Score	Entries	CW Winner	Phone Winner
Unlimited Category				
Minnesota Wireless Assn	5,974,990	67	N0AT	K0JLJ
Society of Midwest Contesters	5,582,022	66	K4VX (AG9A,op)	AG9A
Yankee Clipper Contest Club	3,356,392	50	K1ZM	N2MG
Medium Category				
North Texas Contest Club	4,504,578	37	N5AU (WN4KKN/5,op)	N5AU (WB5VZL,op)
Murphy's Marauders	3,494,442	44	W1WEF	W1WEF
Mad River Radio Club	3,157,086	35	K8CC	KW8N (N24K,op)
Northern California Contest Club	2,988,156	34	N6RO	WC6AI
North Coast Contesters	2,961,832	30	K3LR	N3BJ
Potomac Valley Radio Club	2,842,970	38	KE3Q	K3ZO
Southern California Contest Club	2,660,658	20	K6LL	K6LL
Frankford Radio Club	2,014,892	28	W2RQ	WB2K
Texas DX Society	1,856,518	17	W5WUW (K5GA,op)	NR5M
Rochester (NY) DX Assn	1,243,482	18	W2TZ	W2HPF
Motor City Radio Club	1,236,124	37	K8SB	K8SB
Albany ARA	997,456	22	KN2Q	N1CC
Willamette Valley DX Club	948,132	13	K7GE (A17B,op)	W7NI (A17B,op)
Western Washington DX Club	948,132	13	K7HBN	N7LOX
Dixie DXers Contest Club	934,976	12	K4BAI	K4BAI
South Jersey Radio Assn	826,398	23	K2YY	K2YY
San Diego DX Club	715,692	9	W6UQF	W6MVV
Kansas City DX Club	513,128	5	KM0L	KM0L
Clark Co (IN) ARC	407,900	11	NJ9C	W4WQD
Salt City DX Assn	405,066	5	K2KIR	W2UUU
Eastern Connecticut ARA	400,270	5	KZ1M	KZ1M
Grand Mesa Contesters	374,624	4	KJ0G	K0GAS
Western New York DX Assn	359,680	8	W2RR (WB2YQH,op)	W2RR (WB2YQH,op)
Central Michigan ARC	351,524	9	W8TJQ	KC8CY
Eastern Iowa DX Assn	290,492	5	KF0Z	K0INR
Albuquerque DX Assn	283,702	3	NC5O	KE5BL
West Park Radiops	280,006	8	W8PN	WBUNB
Highland ARA	261,440	11	KJ8I	NS8G
Hazel Park ARC	234,904	11	WD8S	WD8S
Southeastern DX Club	174,640	3	KM9P/4	AB4RU
Northern Arizona DX Assn	108,720	3	W7YS	
Tyler ARC	106,612	6	AA5IE	KG5NE
Western Illinois ARC	74,562	5	N9JF	N9JF
Redwood Empire DX Assn	52,506	5	WW6D	WA8LLY
Dauberville DX Assn	46,798	3	WE3C	WE3C
Local Category				
River City Contesters	1,817,756	10	W6GO (N6IG,op)	W6GO (N6IG,op)
Rubber Circle Contest Club	1,381,444	8	W7XR (W7WA,op)	W7XR (W7WA,op)
New Mexico Big River Contest Club	1,267,232	6	K5TA	W4Y7EJ
Livingston ARK	860,834	8	KW8G	KB8TI (N8AON,op)
Lincoln ARC	712,626	6	K0SCM	K0SCM
Utah Contest Club	640,772	5	K6XO	K6XO
Central Arizona DX Assn	594,718	6	KY7M	KY7M
Northrop Radio Club	572,618	8	WA6BIL	K6BVE
Reading (PA) Radio Club	471,998	5	K3TEJ	NE3F
Mile-Hi DX Assn	451,112	7	K0EU	KR0U
Falmouth ARA	424,358	4	K5MA	K5MA
ZYGO	361,828	8	W1ECH	KA1MWX
Arlington, VA Radio Club	356,958	10	WB8OFF/4	WB3QKM
Northern Florida ARS	334,970	7	N4UF	N4UF
Overlook Mountain ARC	321,008	4	KY2J	N2LDU
Ventura County ARC	313,456	7		K6VMN
Valley Radio Club of Eugene	293,212	5	K7GDN	A17W
Mitre-Bedford ARC	292,620	4	W1FM	W1FM
Maui ARC	286,812	6	AH6KE	AH6KE
Providence Radio Assn	283,302	5	K1DS	W1OP (K1PLX,op)
Long Island Mobile ARC	279,670	3	K2AU	KS2G
Woodbridge Wireless	266,722	9	WB4RDV	WB4RDV
Amateur Radio Experimenter's Assn	248,144	7	WB2DIN	WB2DIN
Tri-City ARC	215,876	9	N1GRM	NY1V
Hoosier Contest Club	201,502	6	K9CW	KB9ABI/T
Mississippi Valley DX/Contest Club	198,972	4	W0HBH	N4CC
Rowan ARS	194,204	4		N4QY
Meriden ARC	184,284	5	W1KKF	KA1SZP/T
Murgas ARC	145,116	5	WA3YON	WA1MKE
Naked Chicken Contest Club	143,256	6	NJ1Q	W1AW (NF1J,op)
Interstate Repeater Society	140,984	5		NU1G
Utica ARC	129,402	6	NA2Q	NA2A
Radio Central (NY) ARC	98,516	4	W2HPM	KD2TT
Rip Van Winkle ARS	89,922	7	AA2Y	WD2K
Lynchburg ARC	61,644	3	N4UA	WD4ELJ
Hamfsters Radio Club	54,018	3	AK9Y	AK9Y
Capital City ARS	43,450	3		KA3GTG

at 0500Z Saturday and the matchbox melted at 0230Z Sunday. Other than that, it was a successful contest (NC6U). While searching for elusive multipliers, I found VE1MQ and KP4EJ in QSO at the bottom of 15 meters. Both operators were kind enough to give me a contact. What a nice gesture! (W7CB/6). This was my first time using a computer logger. I haven't had as much fun since I started operating Sweepstakes in 1947! (VE6AWE/W6). This was my first time using computer logging during SS—it was like driving a Porsche! (K6ZH). I found that a long, pregnant pause after a complete QSO usually means a keyboard error! Contest software sure makes search-and-ponce a lot easier! (KT6V). The most memorable QSO was with W1OP, who hung in there long enough to pull out my QRP signal and give me my Rhode Island multiplier (WW6D). We decided to make this one a family affair. Everybody helped out and it was great family fun (W7UDZ). I'd like to thank NP4Z for giving me the multiplier in the last hour of the contest (KY7M). I had fun playing in SS for the first time on 25 years. Although I'm a bit rusty and only operated about 10 hours, it was a lot of fun (KL7HF). The slow-code plan was a great idea (NL7TD). The contest is better if you don't start writing a new computer-logging program the Thursday before the contest (W1TR). The pins are a great idea! Most of my contacts were in the slow-speed segments (N7LMO). Sunday was much better this year, as opposed to the past several years. I also enjoyed the more leisurely pace of the slow-speed segments. I believe the achievement pins also provided an incentive, resulting in the increased activity (W7YAQ). I wish I could have swapped my K1ZZ and W1AW QSOs for one with North Dakota (WA7FAB). Power outages and contests are not compatible (W7WA). I could be stuck in an elevator with all 77 Sections and still come up a handful short (N7LOX). I couldn't figure out why my arm and shoulder were so sore on Monday (WY7F). This was the first contest I've ever participated in. The pin was my incentive (WA7ETH). Where were all the guys out west? (KF8GW). This was my first contest. It was a challenge and great fun. (KB8HHV). I couldn't believe it when I held a frequency on 40 meters for two hours with 100 watts and a G5RV! (N8LC1). This was my first SS after 32 years as a ham and I really enjoyed it! (AA8BQ). I enjoy CW very much, but if it wasn't for the slow-speed segments, I never would have participated (KF8ES). I didn't hear a single VE7! (K9CC). I loved the slow-speed portions. It gave me a chance to brush up on my code (K9DKJ). The November Sweepstakes is always fun! (KT0O). It's always nice to see old friends in SS! (NJ9C). I wish I could nominate K8CC and his NA software for sainthood (W9W1). Sweepstakes is a nice way to break in a new rig (K9OSH). I'm not "computer literate," but using online logging sure beats a pencil and paper (N9FVN). This was a new personal record for me! So far, I haven't heard a VE8 in three years of activity (NSOP). I didn't meet last year's score and can't explain why (K0FRP). I'm used to DX contesting, so I didn't know what to expect. It turned out to be as much fun as Field Day. It was a big kick to work WAS in 24 hours using QRP (K9AY). Computer logging is almost too much for someone with a one-track mind (W10S). Fantastic! This was the most fun I've ever had in this contest (KD0RT). I put up an 80-meter "stealth inverted-V" outside my daughter's window in a rainstorm. It seemed to work fairly well, despite the wind blowing it down several times—I worked 26 new Sections with it (NO0Y). It sure was a lot of fun! Long live CW! (KA0GGI). I had lots of fun operating QRP. (W0JRP). This is the perfect contest for the ham with only dipoles! The contest was half over when I got started, so the excitement was all the more intense (KB0DZN). This is the first time I've tried SS CW. It was nice to see so many Sections involved. Thanks for the slow-code sections of the bands—the 20-meter guys really fly! (KF0GV). This was my first SS and my only goal was to get the pin. I'll be back next year and better prepared! (WA0RPI). Family togetherness! My XYL did the logging and duping while I operated. We had a great time! (WB0IHR). This was the first time I seriously tried SS in more than 38 years. It was a blast! I even learned a few new tricks which I'll follow up on next time (VE5KM).

Phone

Does Minnesota's having KM0O and AC0W, make it The Bovine State? (AB1U). I felt good about queries on my check (35) and often added a "believe it or not"



The crew at ND1X (l-r): Roger, K1WNT; John, ND1X; Mike, KJ1D; and Marty, K1CVF.

Top 10—CW

Single Operator High Power		Single Operator Low Power		Single Operator QRP		Multioperator	
Call	Score	Call	Score	Call	Score	Call	Score
N5AU (WN4KN/5,op)	198,750	N5RZ	167,700	K7SS	113,344	WX0B	163,500
K0RF (W0UA,op)	190,500	W2TZ	156,300	W2GD	105,600	WD0T	162,032
W5WMU (K5GA,op)	189,600	KM9P/4	155,040	WB0O	104,832	A19X	160,500
K3LR	189,088	K0EU	154,950	W6JTI	89,400	K0GND	160,468
K6LL	186,150	K4XU	151,950	AA2U	87,450	K7MM	153,772
W6GO (N6IG,op)	184,650	N4ZZ	151,050	N9NE	83,700	W4AQL	152,700
N4WW (K0LUZ,op)	183,008	K7OX	145,500	K9JU	81,614	WF5E	151,050
K5TA	182,400	K7LR	142,500	W6IO	78,256	K5RX	149,480
K1ZM	180,950	N4EEB	139,384	K0FRP	78,192	K0WA	148,888
K5ZD	180,750	W1FEA	137,550	WB9HRO	76,072	W0AIH	141,000

Top 10—Phone

Single Operator High Power		Single Operator Low Power		Single Operator QRP		Multioperator	
Call	Score	Call	Score	Call	Score	Call	Score
W6GO (N6IG,op)	378,532	K7QQ	278,124	K7SS	156,464	AA5B	376,684
K6LL	362,516	K7RI	268,730	WB0GAZ	104,784	W7ZR	329,560
N5AU (WB5VZL,op)	353,430	W00IKN	239,162	K5ID	88,500	NK7U	314,622
K4XS	341,880	W1FEA	237,930	WB2ODH/6	72,300	KF6OG	291,676
NR5M	340,032	N4ZZ	237,468	KD2TT	71,250	W9XT	285,054
W5WMU	339,416	VE4GV	226,534	KB4GID	67,144	WD0T	285,054
WB0O	337,722	K7LXC	219,450	K3DI	64,380	WD9INF	273,350
N5RZ	337,260	K0SCM	211,750	WA7PVE	59,072	K1NG	262,108
W7NI (AI7B,op)	326,172	W1XE	207,284	N6WMF	58,672	KW5P	260,106
KA5W (KS1G,op)	324,632	AJ9C	206,514	KH6CP/1	58,032	NC7K	257,642

up one notch in the standings to finish second with 156k points. Bill, KM9P/4, finished third with 155k points. Only the top three scorers from last year's contest would have made this year's Top Ten.

Danny, K7SS, led the way among QRPers, with a record 113,344 points. John, W2GD, slipped past Bill, WB0O, by a mere 768 points to finished second.

The crew at WX0B placed first in a close finish for the CW Multiop crown, scoring 163,500 points. WD0T, last year's fifth-place finisher, was only a few QSOs behind at 162,032 points. A19X was third with 160k points.

The phone contest also saw phenomenal competition and new records. Jim, N6IG, piloted W6GO to top honors and a new stateside record at 378,532 points. (The highest-ever score was 398,088 set by Steve, N2IC, at KP2A in 1988.) Jim's QSO total was 2458—an average of better than 100 per hour for the entire contest. Dave, K6LL, finished second again this year with 362k points. George, WB5VZL, operated N5AU to the tune of 353k for third place. Only last year's top three scorers would have made this year's Top Ten list.

Western Washington was the place to be for the phone Low-Power and QRP categories. In Low-Power, Rex, K7QQ, out-gunned Tom, K7RI, by about 50 QSOs to take first place with an all-time record of 278,124 points. Rich, WB0IKN, finished third with 239k points. Only last year's very best Low-Power phone score would have made this year's Top Ten. Danny, K7SS, returned as the QRP-Phone champ and set

another all-time record at 156,464 points—with 153 more QSOs than last year. Dave, WB0GAZ, finished in second place, scoring 104k and Tom, K5ID, was third with 88k points.

The gang at AA5B easily won the Phone Multioperator category, setting an all-time record of 376,684 points. W7ZR and friends finished second with 329k points, followed by NK7U with 314k.

The rivalry for gavels in the ARRL Affiliated Club Competition this year was as intense as ever, with 75 clubs competing (up from last year's 69). The Minnesota Wireless Association moved up from the Medium Club category to win the Unlimited Club gavel in 1990 with 67 entries. The Society of Midwest Contesters was close with 66 entries, and only about 400k points behind. Moving up from second place in 1989, the North Texas Contest Club trounced Murphy's Marauders for the Medium Club gavel. In the Local Club category, the River City Contesters took the 1990 gavel from last year's champs, the Rubber Circle Contest Club, in a dramatic reversal of fortune. Both top Local clubs fielded a number of entries at or near the top of the various Top Ten boxes.

Most of the increase in participation seems to have come from individuals, rather than organized club entries. Although club participation grew slightly compared to last year, it's still down considerably from 1978's record 112 competing clubs. And in 1978, the top Unlimited Category club submitted 140 logs, compared to 67 this year.

An encouraging sign is that 300 entries

(10%) for this year's Sweepstakes were submitted by operators who were first licensed in the past three years (1988-1990). On phone, 215 logs (13%) were submitted by newer operators. A tabulation of phone entrants by year first licensed shows that the top five years are 1989, 85 entries; 1977, 78; 1990, 74; 1978, 51; and 1988, 50. The CW contest is still dominated by hams who were first licensed in the '50s and 60s, but it was encouraging to note that 85 (7%) of the entrants were licensed in the past three years. The top five years on CW are 1957, 49; 1958, 44; 1977, 42; 1961, 42; and 1978, 40.

The 1990 November Sweepstakes is going to be tough to top. We'll continue the participation pins and the slow-speed CW segment, but it's up to you to tell your friends how much fun Sweepstakes can be. Talk up the contest on your repeater or at club meetings; take some time to explain the exchange and answer questions on how to operate; set personal goals or duel it out with a friend—competition on any level contributes to the fun of contesting. Let's continue to make Sweepstakes exciting and fun for everyone.

SOAPBOX

CW

VE8 and KP4 were invisible! (W1ECH). My age is 15 and this is my first CW SS. The beam made an amazing difference! (WJ1U). I never realized or fully appreciated how much difference a beam could make. Now I know! I can't believe I missed Kentucky (KT2E). 80 meters was humming Sunday morning, but where was Delaware and most of Canada? (W11W). I haven't participated in a contest like this since high school (NW1S). It was challenging and fun (N2KKP). I'm always amazed at how well 5 watts works when conditions are good. I should have done this years ago! (KB2BY). I started out with an objective of making 100 QSOs and earning a pin. I realized I had made it at around 335. I stayed in the Novice portion of 15 meters almost the entire time (N2DUB). This was my first contest. I improved my CW skills, but could have used more time to operate (KA2SSX). Every year it seems that the call signs get weirder and weirder (AE2N). It was a nice, warm weekend, so much so that the power supply blew (WA2LCC). This was my first serious contest effort and I thought I did quite well. The idea of the slow-speed sections was great (WZ2T). I had never entered SS before, but now that the CT software supports the contest, all that has changed (N3RD). I've come to a conclusion about Sweepstakes: It's like eating potato chips—you can't have just one (QSO)! (NK3Z). This was my first Sweepstakes in 23 years. It's great to be back! (N3IGV). This was my first CW contest, even though I've been a ham since 1961. I worked the contest with only 25 watts and attic dipoles (WD4EIH). My 511 QSOs was a new personal high and I did it with an all-band vertical (KB4HZ). I did better than last year and in less time (KD3GC). This was my first contest in the 41 years I've been a ham. Believe me when I say that it was a lot of fun, and now I know what I've been missing all these years. It just goes to show you that CW is not dead! (W4OXX). This was my first contest and it was lots of fun (KC4MPS). I was pleased to make more than 1000 QSOs for the first time. 40 meters was big for me, with 689 QSOs (K4LTA). This was my first SS in years and the first with online logging software (W3FTG). This was my first SS in 24 years as a ham. It won't be my last. I did a double take when W1OP sent me a check of 19 (WA5RES). It never fails—I never seem to work any CW for at least a month before the contest. The rust makes the first hour interesting (K5RX). I had to do 24 hours straight just this once, but I got whiplash a few times. I strongly recommend using pencils with erasers (WC5D). I was glad to hear from a lot of my friends (K8EZJ). This was the first time we've used a computer to assist in the contest. It was too bad the YL turned on the hair dryer Sunday morning and blew the breaker! Thanks to the autosave feature, all was forgiven (AA6VX). My rig caught fire

Delaware
K3WUW 147,750-985-75-24-B
NY3C 16,224-156-52-15-A
KA3WSZ/N 11,700-117-50-19-A
K13B 8,736-104-42-5-A
N3IQI 8,528-104-41-13-A

Eastern Pennsylvania
AA3B 131,838-903-73-24-B
K3MQH 117,216-792-74-24-A
K3TEJ 117,000-780-75-19-B
N2EY 88,050-587-75-24-A
K3CM 80,884-554-73-16-A

Maryland-DC
KE3Q 180,600-1204-75-24-B
K3ZO 164,312-1081-76-24-B
K3DI 108,000-720-75-17-B
N3IGV 83,074-569-73-24-A
K3EI 41,860-299-70-13-A

Western Pennsylvania
K3LR 189,088-1244-76-24-B
K5ZD 180,750-1205-75-24-B
W9XR 126,000-840-75-24-B
AD8J/3 100,492-679-74-22-B

Alabama
KB4HZ 72,562-511-71-19-A
KC4TEO/N 18,256-163-56-15-A
N4QB 11,938-127-47-5-A
WD5CBQ 9,752-106-46-10-A

Georgia
K4BAI 158,400-1056-75-24-B
KM9P/4 155,040-1020-76-24-A
AA4GA 115,200-768-75-24-A
AA4VD 88,992-618-72-21-A

4
Alabama
KB4HZ 72,562-511-71-19-A
KC4TEO/N 18,256-163-56-15-A
N4QB 11,938-127-47-5-A
WD5CBQ 9,752-106-46-10-A

W8MHS/4 20,520-180-57-7-Q
N4UJZ 20,406-179-57-6-B
KD3GC 15,444-143-54-11-A
W4SAS 10,500-105-50-15-A

Kentucky
N4XM 132,904-898-74-23-B
K4FU 90,750-605-75-21-A
N4AR 77,248-588-68-13-A
K2250 62,500-407-73-12-A

North Carolina
K4POL 131,550-877-75-20-B
N4AA 127,500-850-75-24-A
W4J9B/4 95,184-661-72-24-A
K8AC 67,950-453-75-24-B

Northern Florida
N4WW (K8LJ,op) 183,006-1204-76-24-B
N4EEB 139,384-917-76-24-A
W4CE 127,950-853-75-23-A
N4UF 60,590-415-73-21-A

South Carolina
N4WL 100,886-691-73-22-A
W4BTZ 94,500-630-75-20-B
W85M 49,530-381-65-21-A
W4ALPV 27,090-215-63-24-A

South Florida
K1XZ 159,600-1050-76-24-B
N4BP 135,000-900-75-22-B
K4MF 66,600-450-74-19-Q
KOAD 21,960-180-61-10-B

Tennessee
K4LTA 158,250-1055-75-24-B
N4ZZ 151,050-1007-75-24-A
K4AMC 147,600-984-75-24-B
N4IR 82,490-565-73-17-A

Virginia
W3YY 128,760-870-74-24-B
W4YE 117,216-792-74-21-B
W4M5 109,800-732-75-24-B
K14UZ (+K4IIS, N4TG) 109,800-732-75-24-B

WD4JHY 112,628-761-74-24-A
AA4UJ 108,350-709-75-21-B
K4BAM 94,572-639-74-24-A
W4XG 84,240-585-72-18-B

Virginia Islands
KP2N 15,704-151-52-8-A
Arkansas
KM5G 128,188-878-73-24-B
K5HYB 99,012-669-74-22-B
W90BF 53,480-362-70-20-Q

Louisiana
W5WUW (K5GA,op) 189,600-1264-75-24-B
K5MC 104,932-709-74-22-A
W5EW 80,352-558-72-20-A
N5TG 50,518-377-67-15-A

Mississippi
W5X 138,824-938-74-24-B
W5VZ 106,856-722-74-20-B
W5MUE 11,970-95-63-8-A
New Mexico
K5TA 182,400-1200-76-24-B
AA5B 174,300-1162-75-24-B
K5BUL 90,170-635-71-21-A

North Texas
N5AU (WN4KKN/5,op) 198,750-1325-75-24-B
N5RZ 167,700-1118-75-24-A
K5AW (K5IG,op) 165,450-1103-75-24-B
AA5DX 156,880-1060-74-24-B

West Texas
NSNA 102,300-682-75-23-A
N5DO 75,336-516-73-17-A
W8AZNC 54,102-381-71-22-A
K5VZOZ/N 31,720-244-65-17-A

Los Angeles
N6PN 137,250-915-75-24-A
N6MI 119,880-810-74-24-B
W8BIL 86,724-594-73-24-B
W8BGS 64,368-447-72-18-A

Orange
N6PN 137,250-915-75-24-A
K2PLF/6 86,700-578-75-23-A
N6YKL 35,052-254-69-22-A
W6SX 33,410-257-65-5-B

South Texas
NR5M (K7GM,op) 172,064-1132-76-24-B
AD5Q 153,328-1036-74-24-B
W5XD 128,464-868-74-24-B
AC5K 102,900-686-75-19-A

NN5T 60,680-410-74-18-A
K09Y 60,620-433-70-14-A
KF5PE 55,188-378-73-17-A
W5MW 53,424-371-72-15-B

Oklahoma
WM4Z 118,400-800-74-24-A
KM5H 112,566-771-73-22-A
W5LFS 43,776-304-72-24-A
W5RES 34,932-246-71-20-Q

South Texas
NR5M (K7GM,op) 172,064-1132-76-24-B
AD5Q 153,328-1036-74-24-B
W5XD 128,464-868-74-24-B
AC5K 102,900-686-75-19-A

West Texas
NSNA 102,300-682-75-23-A
N5DO 75,336-516-73-17-A
W8AZNC 54,102-381-71-22-A
K5VZOZ/N 31,720-244-65-17-A

Los Angeles
N6PN 137,250-915-75-24-A
N6MI 119,880-810-74-24-B
W8BIL 86,724-594-73-24-B
W8BGS 64,368-447-72-18-A

Orange
N6PN 137,250-915-75-24-A
K2PLF/6 86,700-578-75-23-A
N6YKL 35,052-254-69-22-A
W6SX 33,410-257-65-5-B

San Diego
N6ND (KJ7A,op) 173,700-1158-75-24-B
K6UA (KR6X,op) 167,352-1101-76-24-B
N16W 154,280-1015-76-24-B
W6UQF 123,450-823-75-24-A

San Francisco
W6JT 89,400-596-75-24-Q
N6RA 61,344-432-71-11-A
W6WD 11,466-117-49-6-Q
W8ALLY 11,128-107-52-6-Q

San Joaquin Valley
AD6W 94,754-649-73-23-A
W6NQ/6 69,864-492-71-15-A
K5SH 57,600-400-72-15-B
W6C6H 47,672-404-59-7-B

AD6A 17,024-152-56-7-B
W6HT 14,208-148-48-5-A
W6NT 12,272-118-52-16-A
W6RND 11,520-120-48-7-A

Pacific
AH3C 178,800-1192-75-22-B
W6HI 42,780-310-69-12-A
AK6KE 29,500-250-59-14-A
K3TW/KH6 14,560-130-56-24-A

Santa Barbara
W7CB/6 113,696-748-76-17-B
W6KVA/6 86,140-590-73-19-B
W6AF6W 90,068-541-74-16-B
W6VE3AW 59,220-423-70-16-B

Santa Clara Valley
N6TV 152,884-1033-74-24-B
N6TU 149,776-1012-74-7-B
AA4KB 120,384-792-76-24-A
N6ZB 119,584-808-74-24-B

San Diego
N6ND (KJ7A,op) 173,700-1158-75-24-B
K6UA (KR6X,op) 167,352-1101-76-24-B
N16W 154,280-1015-76-24-B
W6UQF 123,450-823-75-24-A

San Francisco
W6JT 89,400-596-75-24-Q
N6RA 61,344-432-71-11-A
W6WD 11,466-117-49-6-Q
W8ALLY 11,128-107-52-6-Q

San Joaquin Valley
AD6W 94,754-649-73-23-A
W6NQ/6 69,864-492-71-15-A
K5SH 57,600-400-72-15-B
W6C6H 47,672-404-59-7-B

Sacramento Valley
W1FEA 184,650-1231-75-24-B
W1F50 137,550-917-75-24-A
N6BG 135,450-903-75-24-B
K6VH 132,860-910-73-24-B

W1FEA 184,650-1231-75-24-B
W1F50 137,550-917-75-24-A
N6BG 135,450-903-75-24-B
K6VH 132,860-910-73-24-B

Alaska
AL7CQ 158,250-1055-75-20-B
WL7E 131,550-877-75-24-B
KL7HF 78,694-539-73-24-B
NL7DU 76,358-523-73-24-A
KL7WP 25,498-209-61-16-A
AA6DX 14,852-158-47-24-A
NL7TD 4,464-62-36-16-A
KE4KE 128-8-8-5-Q
KL7FAP 72-6-6-1-A

Arizona
K6LL 186,150-1241-75-24-B
KY7M 171,456-1128-76-24-B
K7OX 145,500-970-75-24-A
WE7G 94,754-649-73-24-A
W7ZMD 74,740-505-74-24-A
N7IR 71,100-474-75-24-Q
N7CPL 70,950-473-75-21-A
W7YS 60,152-412-73-17-A
NN7A 48,326-331-73-17-A
K7CV 29,358-233-63-9-A
KF7JF 16,422-161-51-6-A
KG7EM 16,302-143-57-10-A
WA7YDH 15,984-148-54-20-B
WDBKR/V 11,440-110-52-9-A
W7KX 10,396-113-46-7-B
N7PNF 10,272-107-48-10-A
K6VN 5,120-64-40-24-A
W2HTX 4,080-51-40-3-A
W7LVY 704-22-16-7-A
N7JOE 242-11-11-24-A
KL7CQ (+AL7LB,KL7LL) 65,462-461-71-22-B

Eastern Washington
K7FR 136,456-922-74-24-A
K5TV 77,108-521-74-23-A
W7GB 54,400-400-68-8-A
W7TR 52,966-373-71-16-B
K7BFL 8,910-99-45-4-Q
N7WV 3,000-50-30-3-A
WA7WWP 2,378-41-29-24-A
K7WUW (+KB7HEC) 32,240-248-65-24-A

Idaho
K7KA 120,596-826-73-24-A
W07Y 105,900-706-75-23-A
W7QDM 34,790-245-71-13-A
N7NQO 10,486-107-49-14-A
N7MPS 8,000-100-40-8-A
W7UQ (N6AL,KB7s ITO,LLF,WU7K,ops) 75,260-530-71-24-A
KB7LFO/N (+KB7LCB) 2,580-43-30-18-A

Montana
K8PP/T 139,350-929-75-24-B
K57T 129,150-861-75-24-B
AA7BG 103,952-712-73-24-A
KE7X 51,060-370-69-9-A
K7ABV 24,000-200-60-24-B
WM7D 15,680-140-56-8-A
K7PGL 9,988-107-42-6-A
W7LR 8,272-94-44-4-B

Nevada
NC7K 118,950-793-75-24-A
K24H/T 51,948-351-74-19-A
NW7S 11,880-135-44-9-A
W7HO 8,160-85-48-10-B

Oregon
W7YAQ 129,900-866-75-24-A
W7AFAB 128,188-878-73-24-B
W7ZR 120,742-827-73-24-B
N7MMQ 65,846-451-73-24-A
W7TC 52,632-387-68-18-A
KA7JXB 51,750-375-69-15-A
W7WHY 36,432-276-66-24-B
K7DBV 34,706-259-67-13-Q
K17Y 29,212-218-67-10-A
K7GDN 27,342-217-63-16-A
A17W 26,964-214-63-17-A
K7RO 26,448-228-58-10-A
W7HWR 25,544-206-62-9-A
K7WPC 18,468-162-57-8-A
KQ7I 18,354-161-57-6-A
K7PTJ 13,780-130-53-10-Q
N7TE 13,900-133-50-15-A
KQ8N 12,408-132-47-9-Q
W7XN 11,760-120-49-24-A
W7MB 11,700-117-50-4-A
KM7T 11,336-109-52-12-A
KB7KOB/N 8,856-108-41-9-A
N7IK 1,872-36-26-5-A
WB7QIW (KE7CR,K17Z,N7ENU,W7TWL,WA7s IIM,CEM,W7UFJ,ops) 112,856-773-73-24-A

Utah
W7CFL 143,856-972-74-24-B
K6XO 119,250-795-75-21-B
KN8D 41,344-304-68-15-A
K6EIL 40,158-291-69-19-Q
WB7TJ 31,200-240-65-16-A
W7BS 30,290-233-65-17-A
KB7VIV/N 24,278-199-61-13-A
K7UM 24,278-199-61-9-Q
N7LMO 10,710-105-51-10-A
NR7T 9,180-102-45-4-B
W7MR (+KE7RU,WE7s B,D,W7JM,WK7V) 129,940-890-73-24-B

Western Washington

W7XR (W7WA,op) 170,550-1137-75-21-B
K7QK 169,608-1146-74-24-B
K7QE (A17B,op) 163,950-1093-75-24-B
KR7G 160,050-1067-75-24-B
WY7I 158,400-1056-75-24-A
K7LR 142,500-950-75-24-A
K7HBN 134,532-909-74-24-A
K7WA 125,250-835-75-24-A
N7LOX 120,096-834-72-24-A
K7SS 113,344-736-77-24-Q
W7LKG 106,992-743-72-22-B
KX7L 96,940-655-74-24-A
WA7UVJ 80,738-553-73-21-A
K7RA 77,700-525-74-18-A
N7KZN 59,780-427-70-17-A
KA7CSE 45,816-332-69-16-A
N6MZ 45,216-314-72-15-A
W7BYK 34,188-259-66-11-A
AA7CQ 23,010-195-59-6-A
N7DOE 14,448-129-56-21-A
N7EPD 14,000-140-50-6-A
AA7FT 11,466-117-49-6-A
WY7F 9,506-97-49-16-A
WA7ETH 9,450-105-45-10-A
K7LXC 8,800-100-44-4-Q
N0NA 3,036-46-33-16-A
N7KPT 1,998-37-2-2-A
N7PT/P 8-2-2-7-A
W7AW (N7MFB,WA7SXB,ops) 60,112-442-68-21-A
W7UDZ (+K7ACK,N7KUR) 15,794-149-53-20-A

Wyoming

WS7X 43,956-333-66-15-A
W07L 15,600-150-52-9-A
K7MM (+KA7QOE,KB7s JHM,JHO) 153,772-1039-74-24-B
NA7R (+KA7MVY) 32,428-242-67-5-A

8

Michigan

K8CC 171,300-1142-75-24-B
K8SB 109,520-740-74-24-A
KJ8A 108,040-730-74-24-A
K8DD 101,100-674-75-22-A
W8LUMP 100,344-678-74-24-A
K8RDJ 91,250-625-73-23-A
KW8G 87,172-589-74-24-A
KF8GZ 84,632-596-71-24-B
W8TJQ 75,600-504-75-20-B
K8CV 68,952-507-68-18-A
K0BU 62,764-442-71-22-A
W8VBEB 54,576-379-72-21-A
K8SAK 52,500-375-70-20-A
KM8W 51,800-350-74-13-A
AA8AV 50,112-348-72-20-A
N8EA 49,848-372-67-10-B
W8VPC 48,300-350-69-13-B
W8AF 37,224-282-66-20-A
W8DS 31,000-250-62-16-A
N8CQA 28,730-221-65-15-Q
AC8W 26,910-207-65-8-A
W8BAXX 22,302-177-63-8-Q
KA8GOM 20,252-166-61-11-A
NX8K 18,360-153-60-20-A
K4CPK 18,300-150-61-11-A
KE8OC 18,126-159-57-7-A
W8BIZM 13,344-139-48-9-A
KF8WG 12,642-147-43-10-A
K8LJG 11,880-110-54-5-A
N8AON/B 11,368-116-49-12-A
KG8F 10,560-110-48-24-A
N8MK 10,304-112-46-7-A
W8YAN 8,858-103-43-14-A
KB8HHV 7,826-91-43-6-A
N8AOE 6,930-105-33-7-A
NM8X 6,840-114-30-5-A
W8FRD 5,396-71-38-11-A
KA8IZE 5,120-64-40-14-A
KA8WBQ 918-27-17-24-A
N8MKZ 672-21-16-5-A
W8VCF 588-21-14-3-Q
KA8KGW/T 448-16-14-5-A
N8FNC 392-14-14-2-A
KB8HGM/N 200-10-10-2-A
N8LMT 32-4-4-3-A
KB8INK (+W85HIO,W8AHVQ) 99,400-710-70-24-A

Ohio

KW8N (W88IXE,op) 169,800-1132-75-24-B
NG8D (K3UA,op) 165,376-1088-76-22-B
WB3KXK 153,000-1020-75-21-B
W0CG 145,800-972-75-24-B
KM8R 141,750-945-75-21-B
K8AZ (K8NZ,op) 121,650-811-75-16-B
KV8Q 114,750-765-75-24-A
W8KIC 106,200-708-75-15-B
W8UPH 93,684-633-74-24-A
NZ8O 78,588-531-74-13-B
KQ8M 75,480-510-74-13-A
K8BL 75,000-500-75-18-Q
W8ATMK 74,016-514-72-18-A
N8LCI 68,870-485-71-15-A

W8PN 66,172-466-71-17-B
WA8R/JF 60,480-420-72-24-Q
K3DMG 50,978-359-71-12-A
NW4G 40,158-291-69-11-A
W8IDM 38,544-292-66-9-A
W8LT 33,528-254-66-3-B
W8FN 33,000-250-66-5-A
K8MNG 31,944-242-66-13-B
KA1S 31,034-263-59-12-A
W8BLQ 26,962-221-61-24-A
KJ8I 26,934-201-67-14-A
W8LHV 26,718-183-73-9-A
K8ES 26,460-210-63-12-A
AA4YZ 25,840-190-68-10-Q
K8UE 25,728-201-64-3-B
W8BQI 25,292-204-62-12-A
AA8VV 21,466-171-66-14-A
K8CX 24,000-200-60-4-B
W8U8R 21,546-171-63-9-A
W8U8R 21,504-168-64-10-A
W8UNB 21,350-175-61-11-A
K8CUB 20,720-185-56-13-A
K8RFC 19,564-134-73-24-A
N8FBG 18,720-180-52-13-A
W8WH 17,928-166-54-14-A
K8WV 16,188-142-57-24-Q
K8BID/N 15,660-135-58-15-A
AA8BV 15,092-154-49-6-A
W8DB 13,992-132-53-8-A
KA8OUT 12,528-116-54-5-A
NS8G 11,856-114-52-6-A
AF8C 11,730-115-51-5-A
K8BES 11,660-110-53-22-A
N8MMW/T 11,220-102-55-13-A
K8BUA 10,120-110-46-5-A
W8AKSS 8,888-101-44-9-A
K8BWX 8,686-101-43-20-A
W8W8O 8,050-115-35-16-A
WA3GSB 6,930-105-33-5-A
K8BFZ 5,920-74-40-8-Q
KM8ZH 3,960-60-33-8-A
K8BRS 1,716-33-26-7-A
K8WXZ 1,330-35-19-6-A
W8XT 208-13-8-1-A
W8EDU (AF8A,N8ARD,W8B8WTS,ops) 120,768-816-74-24-B

West Virginia

W9LT 118,992-804-74-24-B
W4NW 80,808-546-74-13-A
W8JWX 32,160-240-67-15-Q
K8MBH 18,894-201-47-7-B
KB8FJ (+KVBS) 42,228-306-69-8-B

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Illinois

K4XU 151,950-1013-75-24-A
KS9O 133,348-901-74-24-B
K9CC 113,760-790-72-24-A
WE8B 108,346-763-71-18-B
WA9TPQ 105,820-715-74-24-A
W8BSVN 105,120-720-73-24-B
N9AEJ 103,222-707-73-16-B
K9LJN 90,958-623-73-17-A
NA1R 88,914-609-73-20-A
K9JU 81,614-559-73-24-Q
K9MMS 76,200-508-75-17-A
K9SW 73,008-507-72-15-A
K8ALTR 69,696-484-72-24-A
K9Z0 57,540-411-70-10-A
K9CV 54,760-370-74-24-A
K9BGL 53,504-418-64-9-B
N4CC 51,840-360-72-8-A
N0FFZ 51,392-352-73-17-A
W9LNU 45,750-305-75-8-A
W9EBY 45,360-324-70-19-A
K9PPW 45,156-318-71-12-A
W9BTY 41,072-302-68-8-B
N9ESA (KA6A,op) 39,902-253-67-10-A
AK9Y 32,604-247-66-10-A
K9WA 30,328-223-68-5-A
W9HBI 29,736-236-63-8-A
N9JF 28,908-219-66-11-A
N09D 27,652-223-62-10-A
W99RGZ 27,040-208-65-11-A
K9UQN 25,200-210-60-8-B
W9ZEN 25,074-199-63-10-A
W9SJKI 24,344-179-68-5-A
WB9ZAJ 21,840-182-60-9-Q
K9DKJ 16,800-140-60-15-A
W9RW 15,900-150-53-2-B
W9VA 15,252-123-62-3-Q
W9TM 14,112-144-49-4-A
K9AHH 12,200-122-50-11-A
K8BENC/T 11,514-101-57-18-A
K9SB 11,232-117-48-5-A
KT8D 10,290-105-49-16-A
NW9S 10,080-112-45-10-Q
W9GT 9,494-101-47-11-A
K9GN 9,384-102-46-1-Q
W9D9ZV 9,240-110-42-3-Q
KG9Z 8,080-101-40-4-A
W9MRU 6,478-79-41-3-A
W9RC 6,164-67-46-8-A
W9D9GGY 5,256-73-36-3-A
KB9FOW/N 4,588-62-37-12-Q
W9AGM 3,400-50-34-3-A
N2CKL 1,564-34-23-4-A
W9YOL (NC9S,W00G,ops) 106,800-712-75-19-A
W99MLY (+KA9VZA) 38,216-281-68-12-A
WV77/R (+WB9OWK) 9,030-105-43-11-A

Indiana

KE9I 142,050-947-75-24-B
AJ9C 111,600-744-75-24-A
NJ9C 106,264-718-74-16-B
KM8I 66,740-470-71-14-A
W9J0Q 66,450-443-75-24-A
N9J0Z 55,720-399-70-21-A
KK9V 52,130-401-65-10-B
W9RE 48,900-350-67-8-B
K9JVI 42,160-310-68-17-A
W9B9PXR 18,000-150-60-12-A
WA2USA 14,976-144-52-24-A
WA9SLM 9,476-103-46-15-A
W4WQD 8,360-110-38-11-A
W9N9J 8,112-104-39-9-Q
AB9P 7,956-102-39-7-A
N9IYI 6,566-67-49-17-Q
W9N9NQ 3,200-50-32-6-A
W9NW 2,940-49-30-10-A
KB9BRQ 1,430-65-11-13-A
N9VB (+N3MC) 30,848-241-64-10-A
W9WVI (AB9N,NX9B,W9NW,ops) 25,254-207-61-14-B

Wisconsin

W9XT (AC9C,op) 153,476-1037-74-24-B
W2W0E/S 119,880-810-74-24-B
W9GHY 113,220-765-74-20-B
WA1JUU 97,820-670-73-24-A
N9NE 83,700-558-75-24-Q
W9WI 82,436-557-74-17-A
W9B9HRO 76,072-514-74-22-Q
W9NA 74,880-520-72-11-B
N9XX 65,100-434-75-15-B
KW9E 63,048-444-71-14-B
W9XU 56,700-405-70-17-A
W9HE 56,140-401-70-12-A
W9MSE 55,950-373-75-15-A
N9IC 36,312-267-68-13-Q
W9UF 34,974-261-67-19-Q
N9EZ 32,026-239-67-8-A
K9KR 30,192-222-68-11-B
W9KHH 26,112-204-64-24-A
K9GDF 26,000-200-65-4-A
K9OSH 25,254-207-61-10-Q
K09Q 16,100-161-50-8-A
WA9PWP 14,800-148-50-6-A
AG9G 11,172-114-49-11-A
W9YCV 10,664-86-62-6-A
W9B9RNL 10,368-108-48-14-A
K1TMM 9,630-107-45-24-A
W9UE 8,352-87-48-16-A
W9RZ 4,176-58-36-8-A
W9WR 3,286-53-31-5-A
K9W9 640-20-16-1-Q
WB9P 280-14-10-7-A
NSJAK 264-12-11-5-A
W8AII (W5ONL,K6s FVF,TG,ops) 141,000-940-75-24-B
W9UP (KA9FOX,N0BSH,ops) 118,350-789-75-24-A
N9FVN (+NN9K) 65,416-442-74-24-A

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Colorado

K0RF (W0UA,op) 190,500-1270-75-24-B
K0EU 154,950-1033-75-24-B
W1XE 137,196-927-74-24-A
KJ0G 125,550-837-75-24-A
N5OP 94,720-640-74-22-A
K0DTK 82,644-582-71-19-A
AC8S 82,512-573-72-12-B
K0FRP 78,192-543-72-22-Q
K9AY 73,152-508-72-24-Q
K0BD (NR5K,op) 59,568-408-73-24-B
K3GWA 57,168-397-72-24-A
K9BQL 54,288-377-72-14-A
W0CP 53,064-402-66-6-A
K0MT 49,700-355-70-16-A
W2CRS 46,644-338-69-11-A
WU0L 45,360-324-70-19-A
K0GUZ 39,732-301-66-19-A
KR0U 38,502-279-69-14-Q
W0LQ 28,408-212-67-9-A
N0ZA 22,624-202-56-34-A
W0SG 22,360-172-65-10-A
W0HEP 20,520-180-57-13-Q
N0HBJ 14,400-144-50-16-A
N0TK 13,846-161-43-6-Q
N0QI 13,724-146-47-3-B
W0P3BWT 13,392-124-54-15-A
W0VZ 11,660-110-53-7-A
W0BS 11,040-115-48-10-B
NY0G 10,890-121-45-10-A
W0B8NHA 10,028-109-46-7-A
KT2D/0 8,084-99-43-24-A
N0KOE/T 8,010-89-45-7-A
W0BZ 4,032-63-32-14-A

Iowa

W0EJ 145,484-983-74-24-B
KD0RT 90,132-609-74-21-B
WF0H 84,900-566-75-22-A
NU0Q 81,400-550-74-23-A
W0JTC 30,686-229-67-12-A
AA8AI 15,120-140-54-18-A
KF8Z 15,012-139-54-5-A
W0BB 10,058-107-47-15-Q
K0RW 9,744-116-42-24-A

KF0AD (KB0CRG,KE0MS,KF0AD,WT0D,ops) 75,600-525-72-23-A

Kansas

N0XA (K0VB,op) 111,600-744-75-24-A
N0FMR 50,024-338-74-18-A
W0AWP 34,362-249-69-20-A
N0BY 34,310-235-73-24-A
W0CY 18,000-125-72-14-A
K0EUX 16,872-148-57-11-A
W0AZ0P 15,762-111-71-16-A
W0VQ 14,040-130-54-15-A
W0N9J 12,838-131-49-8-Q
W0BYJT 11,520-120-48-18-A
W0BLQK 8,930-95-47-9-A
W0YRN 7,832-89-44-13-A
W0TE 4,662-63-37-8-A
K0WA (+AB0S,NW0W,W0CEM,W0CFZ,ops) 148,888-1006-74-24-B
W0UY (+KB0FQM) 24,120-201-60-10-A

Minnesota

N0AT 162,032-1066-76-24-B
KM8O 149,776-1012-74-24-B
K0JL 140,896-952-74-24-B
W0AA (WB0AD,op) 140,250-935-75-24-B
N0CIB 139,284-954-73-24-B
W0WH 136,050-907-75-20-B
W0UC 124,200-828-75-23-A
K0HB 118,844-803-74-24-A
K0AD 113,734-779-73-24-B
K0FZG 108,900-728-75-24-A
W0BCH 107,310-735-73-20-B
KE0L 107,100-714-75-23-A
W0ZMNO 104,488-706-74-23-A
K3WT 99,360-690-72-16-B
W0ARBW 96,644-653-74-16-B
W0PI 89,836-607-74-18-A
N0CIC 75,628-518-73-24-Q
K0NB 72,000-500-72-12-B
N8BG 68,256-474-72-15-A
W0WDW 64,752-456-71-12-B
K0TO 60,060-429-70-10-A
K0IIG 59,780-427-70-16-A
KN8Z 54,480-389-70-24-A
K0KX 50,250-375-67-6-B
W0BF 48,706-343-71-9-A
W0YHE 48,438-351-69-21-Q
W0RUE 40,296-292-69-24-A
W0AMHJ 39,996-303-66-7-B
N6VB 36,176-266-68-8-B
W0BWH 36,168-274-66-23-A
K0FT 33,000-250-66-24-A
K0TK 28,016-206-68-5-A
W0BWWW 23,200-200-58-10-A
K0II 22,600-200-57-4-A
W0NGB 22,656-177-64-12-Q
W0FL 22,260-172-65-11-A
N0AGW 21,504-168-64-14-A
K0MZH 21,504-192-56-5-A
N0BPH 20,520-171-60-12-A
K0QVM 19,026-151-63-14-A
W0TIV 18,880-160-59-5-A
K0FP 17,600-160-55-10-A
KBZQ 15,810-155-51-6-Q
W0BQR 14,400-144-50-14-A
W2VW 13,260-118-56-11-A
K0DCZ 12,544-128-49-11-B
AC8W 11,016-108-51-16-A
W0BRI 10,440-116-45-5-Q
W0BOTO 8,424-108-39-8-A
N8KWO/T 3,254-44-37-8-A
K0TT 3,000-50-30-1-B
W0BHR (+op) 17,064-158-54-14-A

Missouri

K4VX (AG9A,op) 175,084-1183-74-24-B
KM8L 149,400-996-75-24-B
WU2B 137,250-915-75-21-B
K5ALU 93,388-631-74-18-A
W0HBH 75,332-509-74-17-A
W0BOU 47,472-344-69-14-A
N0EID 31,152-236-66-20-Q
K0AP 24,888-204-61-7-A
W0XG 22,692-186-61-13-A
K0W 15,900-150-53-7-B
W0YZZ 15,336-142-54-10-A
K0GGI 12,600-150-42-4-A
N0FX 12,204-113-54-9-A
W0AV 11,100-111-50-14-Q
N0IZZ 10,752-112-48-11-A
K0JPL 10,200-100-51-24-A
W0JRP 8,964-83-54-14-Q
K8B0DZ/N 8,800-100-44-11-A
K8AGRD 1,472-32-23-8-A
W0CCV (N6MLW,AK0W,KM8R,WB0OEE,ops) 58,100-415-70-23-B



Richard, KE3Q, makes another of his Section-leading 1204 CW contacts to take Maryland-DC.



Phillip, N5QCN, scored 73,514 points in his first SS at age 15.



Kristin, KB5JCW, age 12, upgraded to General just before the contest. She later remarked "it was great to use all those new frequencies!"

K0GND (+ KN0RKY, WA0RWL, WB0S JWQ, WSL, WD0EGK, ops) 160.468- 1042- 77- 24-B		NY1V 48.988- 331- 74- 18-A N1EPU 44.872- 316- 71- 12-A NFTU 44.850- 325- 69- 24-A K1K1 43.296- 328- 66- 4-B N1EVR 42.140- 301- 70- 13-A KC1OH 40.870- 305- 67- 15-A WM1Q 39.516- 267- 74- 18-A WB1DWO 35.642- 251- 71- 10-B K1TN 35.420- 253- 70- 6-A N1HRA 35.340- 285- 62- 17-A N1HFI 33.728- 248- 68- 15-A KQ1Q 33.534- 243- 69- 17-A AB1U 29.480- 220- 67- 7-A WA3VIL 29.358- 233- 63- 13-B W1TS 25.600- 200- 64- 15-A NX1Q 24.420- 222- 55- 8-A K1ZZ 23.954- 203- 59- 3-B NT0Z 23.100- 175- 66- 7-Q KG1D 16.872- 148- 57- 24-B KA1MIS/T 15.600- 150- 52- 9-A N1CCO 13.000- 125- 52- 13-A KB1QU 12.240- 120- 51- 8-A W1PMR 11.322- 153- 37- 9-A KA1PMX 10.980- 122- 45- 5-A KA1WIF/T 10.406- 121- 43- 12-A K1CE 9.792- 102- 48- 5-A KB1SL 9.752- 106- 46- 6-A KC1WR 9.546- 129- 37- 18-B N1FHR 9.408- 112- 42- 24-A NJ1Q 9.030- 105- 43- 7-A K1DII 9.000- 100- 45- 3-B WB8IMY 8.200- 100- 41- 9-A N1HPE/T 6.650- 95- 35- 15-A KA1SZP/T 4.160- 65- 32- 7-A KA1UTL/T 3.660- 61- 30- 9-A W1B1H 3.500- 50- 35- 5-A K8HVT/1 3.036- 66- 23- 1-B N1GNV/T 2.580- 43- 30- 5-A K1KAV 1.824- 38- 24- 6-A WA1VR 1.280- 32- 20- 5-A KA1VMG/T 220- 11- 10- 2-A AA2Z 84- 7- 6- 1-A ND1X (+ K1s CVF, WNT, KA1s RFM, SNQ, TGB, USY, KJ1D) 203.984- 1342- 76- 23-B K01SJ (+ N1HIH) 159.752- 1051- 76- 18-B WJ1U (+ N1HDW) 158.928- 1032- 77- 24-A W1NRG (K1VDF, KA1s VFX, WAT, WIKKF, W1TRY, ops) 94.650- 631- 75- 24-A K1DW (+ K1NCD, WB1DWD) 94.276- 637- 74- 23-A WA1LUP (+ WB1COB) 64.448- 424- 76- 17-A N1IDQ (+ op) 23.360- 160- 73- 19-A NM1K (KA1s VEC, VED, ops) 4.284- 63- 34- 3-Q		KB1GN 22.176- 154- 72- 10-A N1FYZ 20.608- 184- 56- 12-A AD1C 20.412- 162- 63- 2-B KB2R 20.234- 151- 67- 15-A WB1EHL 18.762- 159- 59- 17-Q WM1G 16.188- 142- 57- 6-A KV1J 16.048- 136- 59- 6-B KB1XJ 15.048- 132- 57- 16-A W1SR 13.250- 125- 53- 4-A W1FL 11.520- 120- 48- 12-A NO1U 11.340- 105- 54- 6-A W1FDR 10.686- 137- 39- 10-A NZ1D 10.434- 111- 47- 13-A W1NJN 9.600- 100- 48- 8-A KA1CTL 9.592- 109- 44- 10-A KA1BBU/T 8.880- 111- 40- 24-A KA1VK/T 8.820- 105- 42- 9-A KA1WAA/N 8.720- 109- 40- 13-A W1FH 8.580- 110- 39- 14-A KA1UOO/T 8.424- 108- 39- 15-Q KA1TNK/T 7.828- 103- 38- 5-A K1UCA 1.920- 32- 30- 5-A W1UMA 480- 16- 15- 4-A N2KDU 32- 4- 4- 4-A W1AF (KA1UTE, KC1s SW, SY, NZ1W, WD1T, K3OUC, KI4PR, ops) 168.014- 1091- 77- 24-A K1BG (+ NET) 33.174- 291- 57- 24-B		K1NG (+ K1IG, WA1S, WF1B) 262.108- 1702- 77- 24-B		AD2S 45.000- 300- 75- 12-A WY2W 45.000- 300- 75- 24-A KE2OD 31.152- 236- 66- 18-B WB2BTJ 18.696- 164- 57- 13-A WB2BXO 16.952- 163- 52- 6-B WB2OEU 16.280- 110- 74- 6-A WB2KSK 15.600- 130- 60- 8-A W2BZ4 15.232- 136- 56- 9-A N2RO 15.200- 140- 54- 11-B W3TB 13.804- 119- 58- 3-A KB2HOE/T 2.690- 125- 47- 12-A K2HVN 0.952- 74- 74- 6-A KB2BBG/T 10.434- 111- 47- 24-A KB2ISQ 408- 17- 12- 24-A N2JTWT 32- 4- 4- 4-A		Vermont WB1GQR (WB2JSJ, op) 283.360- 1840- 77- 24-B WA1GUV 33.000- 250- 66- 15-Q N1FKR 31.200- 240- 65- 14-A KC1BU 12.500- 125- 50- 9-A KA1VEW/N 10.530- 117- 45- 12-A W1S (+ WA1HFF) 128.898- 837- 77- 19-B		Western Massachusetts WA2TBA 198.352- 1288- 77- 24-B K21M 183.768- 1209- 76- 24-A KB1RI 69.010- 515- 67- 13-B N1GXR 24.244- 209- 58- 7-A KA1SPO/T 20.292- 178- 57- 15-A KR1R 11.440- 110- 52- 3-B W1FLX 9.920- 124- 40- 24-A N1FUS/T 8.736- 104- 42- 9-A KC1SS (+ ops) 48.300- 350- 69- 23-Q		Northern New Jersey WB2K 214.368- 1392- 77- 21-B W2RQ 93.016- 604- 77- 7-B K2ZCG 76.152- 501- 76- 24-A N2CFD 64.972- 439- 74- 24-B WA2YVA 61.864- 407- 76- 13-A N2DUB 51.262- 361- 71- 13-A KW4E 38.766- 273- 71- 10-A W2GRD 34.648- 244- 71- 24-B W2GD 33.634- 251- 67- 4-A WA2ASM 32.696- 244- 67- 10-A WG2Z 31.374- 249- 63- 14-B W1GD 30.960- 215- 72- 6-B WA2JDT 30.800- 200- 77- 5-B K2PF 21.980- 157- 70- 7-A WB2AZE 17.496- 162- 54- 12-A W2HCA 16.896- 128- 66- 7-A K2QZH 16.226- 133- 61- 14-A K4BNC 15.554- 101- 77- 9-B WA1YCP 14.040- 130- 54- 8-A WA2BTR 13.250- 125- 53- 8-A N2LDU 11.592- 138- 42- 12-A AA2U 11.554- 109- 53- 3-Q WV2X 11.270- 115- 49- 10-A WA2LLR 10.904- 116- 47- 8-A W02X 10.560- 120- 44- 7-A N2AAZ 10.176- 106- 48- 7-A WA2DAX 10.100- 101- 50- 6-A W2TR 9.328- 106- 44- 9-A WB2BFB 9.204- 118- 39- 8-A N2FBQ 9.116- 106- 43- 10-A KR2Q 8.686- 101- 43- 5-Q W2JEK 7.744- 88- 44- 7-Q WK2P 5.576- 68- 41- 12-A W2WCE 910- 35- 13- 5-A K2MFF (KA2PFM, WG2V, WV2J, ops) 81.150- 541- 75- 24-B WS2L (+ N2GMZ, NS3L) 74.250- 495- 75- 24-A N2AIH (+ WA2OFI) 40.464- 281- 72- 17-A N2KOO (+ N4AGZ) 7.802- 83- 47- 11-A N2IXK (+ KB2GYH) 7.400- 100- 37- 10-B					
South Dakota KA3DRR/0 72.410- 557- 65- 19-A WA0ZPT 55.948- 394- 71- 22-Q K0WU 31.878- 253- 63- 13-A K0DEE 23.214- 219- 53- 7-A WD0T (+ KB0QA, WV0H) 162.032- 1066- 76- 24-B		Ontario VE3TEE 25.856- 202- 64- 16-A VE3DMC 16.092- 149- 54- 5-A VE3OMU 14.514- 123- 59- 10-A VE3FSN 9.384- 102- 46- 15-A VE3ST 5.220- 58- 45- 24-B VE3ART (VE3s GAS, LNS, ops) 136.650- 911- 75- 19-B		Manitoba VE4VV 117.808- 796- 74- 24-A VE4GV 46.080- 360- 64- 9-A		Saskatchewan VE5VP 65.536- 512- 64- 15-A VE5KM 40.800- 300- 68- 20-A		Alberta VE6DZ 42.210- 315- 67- 16-A VE6ALP 33.356- 269- 62- 13-A VE6SH 1.334- 29- 23- 8-Q VE6AO (VE6s AMR, ANL, EY, GLR, JB, LLB, PY, TFM, ops) 60.582- 439- 69- 24-B		British Columbia VE7YU 69.840- 485- 72- 22-Q VE7HR 17.050- 155- 55- 22-Q VE7CYT 15.400- 140- 55- 20-A VE7EKS 7.600- 95- 40- 20-Q		Phone 1 Connecticut W1WFEF 243.628- 1582- 77- 24-B W1XX 231.496- 1523- 76- 24-B NJ2L 190.456- 1253- 76- 18-B K1TO 140.296- 923- 76- 10-B K1RM 122.550- 817- 75- 11-B W1RM 110.418- 717- 77- 24-B N8RA 99.968- 704- 71- 11-B NO1K 93.388- 631- 74- 14-B W1AW (NF1J, op) 91.250- 625- 73- 15-B K1CC 74.660- 510- 73- 5-B KA1HG 70.518- 483- 73- 24-A KB1I 69.642- 477- 73- 24-B KH6CP/1 58.032- 403- 72- 24-Q KA1MWX 57.168- 397- 72- 13-A W1ECH 53.960- 355- 76- 15-A		Eastern Massachusetts N1AU 175.650- 1171- 75- 22-B KS1A 125.096- 823- 76- 21-A K5MA 124.586- 809- 77- 12-B KA1IOR 102.638- 703- 73- 17-B W1FM 101.550- 677- 75- 21-A WB2UMF 74.392- 547- 68- 17-A N1HOQ 60.298- 413- 73- 24-A WA1G 55.720- 398- 70- 5-B W1VL 50.370- 345- 73- 22-A K1MBO 45.000- 300- 75- 24-A NJ1Y 40.986- 297- 69- 24-A WAZKEF 38.272- 299- 64- 11-A NO1J 36.270- 279- 65- 5-B WA1LXP 31.080- 222- 70- 24-A W1BK 28.290- 205- 69- 24-A W1TUM 24.440- 188- 65- 9-A WA1ML 24.304- 217- 56- 8-B		Rhode Island WA1TAQ 169.400- 1100- 77- 16-A W1OP (K1PLX, op) 152.306- 989- 77- 18-B K1VJSJ 115.672- 761- 76- 21-A N1SW 82.944- 576- 72- 9-B KC1CU 76.220- 515- 74- 18-A WC1X 53.728- 368- 73- 10-A K2MM 42.032- 296- 71- 14-A K1DS 24.924- 201- 62- 4-A W1WKO 21.600- 150- 72- 10-A W1RFQ 18.224- 136- 67- 9-B N1FWC 9.400- 100- 47- 3-A KB1PS 8.944- 104- 43- 13-A KA1JGB/T 6.784- 106- 32- 1-A		NYC-Long Island K02RD 206.100- 1374- 75- 24-B WB2DHY 159.236- 1034- 77- 24-B KS2G 105.000- 700- 75- 18-A K2AU 75.828- 534- 71- 14-B K02TT 71.250- 475- 75- 19-Q	

W2PAU	27,208	179	76	8-B
KA2KFO	24,428	197	62	16-B
KE2OP	23,976	162	74	19-B
K2RXN	23,380	167	70	12-B
W2FGY	20,992	164	64	11-B
W2CN	16,956	157	54	15-B
N2LDE	16,530	145	57	12-A
WB2UVB	13,608	126	54	10-A
WD2AHP	12,296	116	53	7-A
KA2HLL	10,608	102	52	24-A
N2ITJ	9,600	100	48	24-A
K2JF	9,588	102	47	24-A
N2HQV	9,240	110	42	24-A
N2AWC	9,072	108	42	9-B
N2HYG	8,820	105	42	24-A
W2EA	8,200	100	41	3-A
KA2YKN	6,300	70	45	8-A
W2YRW	5,016	66	38	12-A
W2ZDF	3,900	50	39	5-A
NA2BUC (+ N2ITX)				
	58,630	451	65	18-B

WS2V (KA2HLL, KB2s CNE, KHN, KE2XW, N2s HQV, HYG, ITJ, WA2s EMU, RJP, ops) 42,192- 293- 72- 24-A

Western New York

W2HPF	222,376	1444	77	24-B
K2ZZ (WA2LCC,op)	208,824	1356	77	24-B
N2MG	187,720	1235	76	24-B
AF2K	145,920	960	76	24-B
W2RR (WB2YQH,op)	137,864	907	76	19-B
K1JUL	137,344	928	74	24-B
WA2JUK	107,492	698	77	24-A
N2BJU	104,250	695	75	24-A
W2MTA	64,218	417	77	24-A
WJ2O	58,362	411	71	15-A
WB2WPM	50,400	336	75	11-A
NM2J	49,558	349	71	23-B
N2WVK	41,464	284	73	8-A
KD2YP	38,736	269	72	13-B
WV2B	35,264	232	76	24-A
KB2DE	31,536	219	72	24-B
WB2ABD	28,258	199	71	4-A
KB2NU	27,200	200	68	6-A
WA2WPI	25,220	194	65	11-A
KB2SE	24,310	187	65	2-B
WS2U	22,144	173	64	24-A
K15FJ	17,380	158	55	14-B
N2KKB	17,264	166	52	14-A
W2UB	16,632	154	54	4-B
KA2MMX	14,000	140	50	16-A
KB4VL	13,992	132	53	8-A
KE2WK	13,440	140	48	24-A
NQ2O	12,540	110	57	8-A
NA2A	11,990	109	55	5-A
KD2WP	11,872	112	53	4-A
K2QZ	11,750	125	47	10-A
AA2AY	11,424	112	51	13-Q
N2IGS	11,040	115	48	9-A
NA2Q	10,290	105	49	3-A
W2RVK	10,200	100	51	9-A
W2TZ	10,080	112	45	2-A
N2DM	9,384	102	46	7-A
WA2FSU	9,292	101	46	5-A
KB2LDZ/N	7,654	89	43	10-Q
WF2V	7,420	95	33	10-A
W2OW (N2HR, NE2W, WE2K, WN2J, WS2U, NX9O, ops)	171,556	1114	77	24-B
K2IQ (K2OZV, KA2CFH, KX2B, WA2AZA, WB2PYU, ops)	78,884	533	74	24-A
KB2LIF/N (+ N2KXH, WA2LZG)	6,510	105	31	7-A

3 Delaware

K3WUW	216,062	1403	77	23-B
N3QIU	17,200	200	68	11-A
NY3C	23,200	200	58	8-A
KA3WSZ/N	20,608	224	46	24-A
K1B3 (+ K3HBP)	65,320	460	71	12-B

Eastern Pennsylvania

WD3V	174,790	1135	77	24-B
NE3F	155,540	1010	77	24-B
K3MQH	139,120	940	74	24-A
K3TEJ	96,048	667	72	12-B
K3TX	84,096	576	73	24-B
K3WV	70,984	467	76	15-B
WB3AAK	62,700	418	75	21-A
K3ZA	56,400	376	75	6-B
WA3R7Y	53,872	364	74	22-B
WA1MKE	52,256	368	71	23-A
WA3YON	42,000	300	70	18-A
KZ3X	41,700	278	75	18-A
WN3TD	38,226	277	69	13-A
KA3MMW	36,716	274	67	22-A
WB3IGS	34,706	259	67	9-A
WE3C	26,112	204	64	9-Q
KD3TB	25,856	202	64	8-A
NT3F	25,320	211	60	12-B
KA3LFC	23,560	190	62	16-A
KA2SPH	22,984	169	68	24-A
KA3UXW	22,572	171	66	14-A
WG3E	22,400	175	64	11-A
WF3M	21,080	155	68	7-A
KD3RN	20,410	157	65	9-A
KD3RH	19,764	162	61	10-A
WB3SS	18,172	154	59	15-A
WB3ZF	16,470	135	61	11-A
K3ND	16,104	122	66	24-A
WB3DNA	15,232	136	56	6-A
KC3LM	15,228	141	54	7-A

N3EZX	14,750	125	59	9-A
N6CQZ	13,622	139	49	24-B
W6QRZ	13,362	131	51	16-A
NA2OT	13,328	119	56	12-A
W3F5Y	10,368	72	72	13-A
WD3U	10,080	105	48	11-A
KA3TUG/T	10,062	117	43	10-A
K3ZPG	9,720	108	45	5-B
WA3NPB	9,288	108	43	9-A
NM3F	9,270	103	45	6-A
NV3S	9,180	102	45	24-B
KA3JBG/T	7,828	103	38	10-A
WA3BRW	7,400	100	37	4-A
WA3YVC	6,032	58	52	8-A
N3IOE/T	5,632	88	32	13-A
WD3AZ	2,128	29	21	2-A
KD3DI	836	22	19	3-A
K3GJ	216	12	9	1-A
WA3LVR (+ KA3WDDW)	64,328	473	68	13-A
NJ3N (+ KA3TJZ)	60,882	417	73	22-A

Maryland-DC

K3ZO	258,412	1678	77	24-B
KE3Q	258,258	1677	77	24-B
N3AOE	182,400	1200	76	24-B
KN3T	175,714	1141	77	24-B
W3ZZ	76,692	498	77	11-A
N3IGV	72,372	489	74	19-Q
K3DI	64,380	435	74	15-A
K3YDX	46,028	311	74	24-A
W3/G3CZC	39,000	260	75	19-A
N3GB	35,584	278	64	24-B
K3NA	34,860	249	70	7-A
KA3TGY	31,490	235	67	15-A
K3SA	30,500	250	61	4-B
WE3Z	28,512	198	72	12-A
KD7J3/3	25,480	196	65	11-A
K3RY	25,200	173	72	15-A
KA3VNB	23,142	203	57	13-A
K3IXD	20,252	166	61	7-A
K3NCO	17,400	150	58	11-Q
WA3SCW	17,160	156	55	8-A
NE3U	15,498	123	63	9-A
KA3D0F	11,900	85	70	12-A
KA3TUE	11,554	109	53	4-B
WD4IEH	11,186	119	47	7-A
N3EI	10,812	102	53	6-A
KD3G	10,656	111	48	8-A
W3PCB	10,388	106	49	8-A
N3FYN	10,304	112	46	6-A
W3FTA	9,936	108	46	11-A
WD3P	9,844	107	46	12-A
NU2U	9,240	110	42	8-A
KA3JUB/N	8,960	112	40	13-A
KA3UIH/T	8,736	112	39	13-A
N3HIA	8,568	102	42	4-A
K3LDE	7,878	101	39	24-B
K3TM	3,800	50	38	2-A
KN5H	1,760	40	22	2-B
W3FQE	1,748	38	23	4-A
K3TW	192	12	8	24-Q
W3BKJ	60	6	5	1-A
WB3EKL (+ N3s DPB, DRB, K7GPD)	121,600	800	76	24-A
WA3NAN (N2s BSS, US, KA3PVS, N3CJN, N4OSD, N4PB, WP4DLX, WD8LQA, ops)	72,000	500	72	16-B
KA3TVK (+ KB5BGU)	32,110	247	65	23-A
KD3PC (+ NET)	20,224	158	64	24-A

Western Pennsylvania

N3BJ	247,324	1606	77	24-B
W9XR	182,040	1230	74	24-B
K3TUP	170,170	1105	77	22-B
K5ZD	127,512	828	77	15-A
AD8J	65,462	461	71	10-B
K3LR	58,616	431	68	7-B
AG3H	41,038	289	71	13-A
K3TO	28,798	187	77	20-A
K3LA	18,090	201	45	4-A
KB3ML	16,700	167	50	7-A
N3BVG	15,048	132	57	13-A
K3RYA	12,560	157	40	11-A
K2QF	11,760	140	42	6-A
KA3POA	11,024	106	52	8-A
W3QII	10,320	120	43	9-A
KA3WAL	9,540	106	45	11-A
WA3GPP	9,196	121	38	9-A
KO3H	6,936	102	34	7-A
WA3PCX	1,978	43	23	5-A
KA3WMGT/	1,184	37	16	24-A
K3UA (+ NET)	80,256	528	78	8-B

4 Alabama

W5CSBO	36,900	246	75	14-A
W4FMO	14,152	122	58	15-A
KA3TEO/N	12,636	162	39	12-A
N4ZDN	11,660	110	53	5-A
KM4XX	11,128	107	52	9-A
N4WIG	10,584	108	49	10-A
KCATIX/T	7,200	100	36	12-A
K4BFT (N4s PYD, WBU, NB9P, ops)	159,144	1047	76	24-B
K4BAI	210,980	1370	77	21-B
W1UA	131,978	857	77	24-B
AA4LR	106,414	691	77	23-A
AB4OH	77,550	517	75	12-B
KD3GC	74,690	485	77	20-A

KB4GID	67,144	436	77	19-Q
N4PNI	38,186	313	61	14-B
KE4XT	27,800	200	69	11-A
AA4GA	26,000	200	65	5-A
KN4OD	19,240	148	65	8-A
N4VPJ	18,000	150	60	19-A
N4SLU	16,200	150	54	12-A
N4JVP	16,128	126	64	7-A
N4VOV	15,620	142	55	6-A
N4XQN	15,012	139	54	13-B
N4TOL	14,268	123	58	10-Q
AB4RU	10,000	100	50	5-B
W4QO	9,828	126	39	7-Q
KD4RO	9,600	100	48	10-A
N4IBO	9,200	100	46	7-A
WG4P	6,240	78	40	4-A
W4UIX	4,880	61	40	9-A
K4Y	180	10	9	1-A
W4AQ (KB4RIV, KC4JAY, N4s CFX, VMD, ZZZ, WA4ABY, WD4WVN, N9s HZQ, JSR, K8D1, ops) 214,830	1395	77	24-B	
WA2EXZ (+ KB4RQM)	31,228	211	74	14-B

Kentucky

ND4Y	229,950	1533	75	24-B
KB4SRE	138,676	937	74	22-A
N4FFO	117,040	770	76	17-A
KB4AMA	66,792	484	69	19-A
KC4DWT	57,128	386	74	17-A
KM4DR	56,574	449	63	14-A
KN4CG	42,920	290	74	24-B
W4BLOW	34,790	245	71	15-A
WB4ECB	30,240	216	70	8-A
KM4TY	21,452	173	62	13-A
AB4OQ	21,320	164	65	10-A
KJ4ER	21,120	176	60	7-A
KA4U	18,768	136	69	7-A
KM4FO	15,872	124	64	24-A
N4XFF	15,568	139	56	14-A
KD4PN	14,790	145	51	9-A
N4ULW	12,896	124	52	6-A
N1WR	12,896	124	52	24-A
N4XM	11,322	111	51	3-A
K4KJQ (AB4s PT, ZZ, KA4TOZ, KB4QNR, KC4DUU, N4s DIT, FLZ, OHW, WA9WIK, ops) 84,900	566	75	24-A	
NA4VR (+ KA4VFI)	8,052	122	33	13-A

North Carolina

KQ1Y	201,566	1309	77	24-B
NA4NV	84,534	579	73	14-B

KB5KTY	12,054	123-	49- 4-A
KSHT	11,780	120-	49- 2-B
NLSMS	11,280	120-	47- 4-A
AA5IE	11,172	114-	49- 6-A
AA5UO	7,560	105-	36- 24-Q
KWSP (+KD5GD)			
	260,106	1689-	77- 24-B
W5AH (+AA5IB,N5L,NB5TB,W5QS)			
	150,176	988-	76- 22-B
WD5BRK (KB5s KODE,KTN,ops)			
	56,658	399-	71- 24-A

Oklahoma

KM5H	192,808	1252-	77- 24-A
K0WA	160,776	1044-	77- 24-A
WM4Z	116,886	759-	77- 18-A
N5OCN	73,514	623-	59- 18-A
W5LFS	43,776	304-	72- 16-A
AA5CO	30,008	242-	62- 8-A
WD5COS	29,920	220-	68- 15-B
KB5LJQ	29,394	213-	69- 11-A
N5XJ	19,140	145-	66- 11-A
K15GX	14,250	125-	57- 7-A
N5CG (+KB5HWX,KF5FM,W5CS)			
	243,504	1602-	76- 24-B
KB5ILT (+KB5ILS)			
	83,922	591-	71- 19-A
KB5JCW (+N5NYT)			
	9,504	108-	44- 6-A

South Texas

NR5M	340,032	2208-	77- 24-B
W5ASP	215,908	1402-	77- 18-B
K3L	161,100	1074-	75- 13-B
K5SCP	118,256	778-	76- 24-B
N5NYK	111,044	782-	71- 13-B
K5TSD	105,412	722-	73- 12-A
NZ5I	74,736	519-	72- 24-A
W5AIX	74,952	518-	72- 17-A
AA5LF	51,984	361-	72- 24-A
W5XD	46,506	337-	69- 10-B
W5NDR	28,288	221-	64- 13-B
N5QSO	25,452	202-	63- 11-B
W5GD	23,892	181-	66- 6-A
N5JWL	22,572	198-	57- 5-A
W5UFA	22,360	172-	65- 12-A
K5EC	17,890	145-	61- 24-B
AA5F	16,592	122-	68- 12-A
N5NMK	16,388	132-	62- 9-B
KE5FI	16,060	146-	55- 24-A
AC9E/5	13,130	101-	65- 11-A
K5WA	12,750	125-	51- 24-A
KB5AHC/T	12,180	145-	42- 8-A
W5QZ	12,084	114-	53- 4-A
N5QFL	12,036	118-	51- 12-B
W5AFK	11,800	116-	50- 7-A
K7GM/5	10,994	103-	49- 2-A
W5ASBR	9,888	103-	48- 5-B
W5DGBX	9,000	100-	45- 10-A
N5NNK	8,652	103-	42- 8-A
N5QVST	8,000	100-	40- 11-A
AA5VN	2,754	51-	27- 4-A
W5EHM (KB2CLL,AA5s BT,NC,KA5WSS, N5s OWG,RAJ,ops)			
	178,332	1158-	77- 23-B
KE4GY (KA5ZPT,KB5MKO,N5OZJ,ops)			
	101,232	666-	76- 20-B
N5NF (+W5RUS)			
	53,424	371-	72- 6-B

West Texas

N5DD	161,084	1046-	77- 18-A
W5FE	40,800	300-	68- 9-B
N5QGX/T	30,378	249-	61- 12-A
N5NA	13,300	133-	50- 10-A
N5PCA	10,416	124-	42- 24-A
KB5LMB	8,686	101-	43- 11-A
KD5SP (KE5HJ,K1SER,N5HBT,W5EGS,ops)			
	241,164	1566-	77- 23-B
W5WX (KA5VOZ,W5SR,W5ZC,ops)			
	141,900	946-	75- 24-A
WA4NXI (+W5EUC)			
	94,710	615-	77- 24-A

6 East Bay

W6BSY	177,716	1154-	77- 24-B
N6RO	166,800	1112-	75- 24-B
K2GM	158,400	1056-	75- 17-B
KB6GK	19,600	175-	56- 18-A
KB6KX	18,240	160-	57- 12-A
WA6QGY	9,328	106-	44- 10-A
W6RGG	9,000	100-	45- 3-A
N7LGC/T	3,472	56-	31- 8-A
WZ6Z	1,850	37-	25- 1-A
N4DG	1,632	34-	24- 3-A
AA6GM	850	25-	17- 3-Q
WA6H (+WA6CRH)			
	63,448	412-	77- 18-B

Los Angeles

WA6DGS	105,600	704-	75- 23-A
AA6TT	102,410	665-	77- 17-A
WB2ODH/6	72,300	482-	75- 24-Q
WB6NFO	65,700	438-	75- 20-B
WA6E/6	63,344	428-	74- 24-B
WB6JE	56,392	371-	76- 18-Q
KB6SP	45,698	313-	73- 20-B
WA6SNG	35,484	286-	62- 10-A
WA7BNM	32,768	256-	64- 19-A
KJ6UD	27,040	208-	65- 18-A
KB6PD	26,660	215-	62- 13-A
WB6BXP	26,096	233-	56- 16-A
WA6PPZ	22,686	199-	57- 6-A
KD6JP	20,636	154-	67- 10-A

KR6D	18,848	152-	62- 24-A
W6SVU	16,402	139-	59- 15-B
KJ6ZV	15,312	132-	58- 9-A
N6USQ	11,430	127-	45- 24-A
WB6CGZ	11,186	119-	47- 22-A
W6UGU	10,982	87-	63- 10-A
WD9HBC	10,620	118-	45- 11-A
N6ZJU	9,270	103-	45- 12-A
W6CN	7,700	77-	50- 6-Q
W6DCYI	7,098	91-	39- 9-A
N6MM/T	4,788	63-	38- 8-A
N6TCC	3,000	50-	30- 9-A
W6GAA (W6ABL,W6BJCD,ops)			
	157,624	1037-	76- 24-B
AA6MG (KC6s KUP,LBO,N6s VDM,XTT, ZIJ,ZJA,ops)			
	155,952	1026-	76- 24-A
W6KAT (KB6s RAA,VNV,K6GAMD, N6BAK, WA6SNG,W6Bs ATJ,JBL)			
	74,550	525-	71- 24-B
W6VPZ (AJ6F,K6KH,KA6VJ,K6Cs HTE,NZM,N6s YBZ,YPJ,W6s CN,SCT, WD6GSK,W6N6X,ops)			
	52,992	368-	72- 19-A

Orange

N6YKL	160,500	1070-	75- 21-A
K16DU	125,400	836-	75- 18-A
W6HAL	83,550	557-	75- 21-A
WA6TMY	75,774	519-	73- 21-A
K7YCI	66,450	443-	75- 14-A
KF6E	63,360	440-	72- 13-A
WA6FIT	59,072	416-	71- 10-A
WB6YNI	55,476	402-	69- 7-B
KY6Y	48,240	335-	72- 18-A
KE6US	46,664	307-	76- 18-A
N6TQI	25,058	187-	67- 18-A
KE6SU	22,940	185-	62- 8-B
W6HT	20,874	213-	49- 3-B
KC6LRE/T	17,544	172-	51- 15-A
WA6GFR	15,184	146-	52- 9-A
W2PFA	14,144	136-	52- 7-A
K6BVE	12,772	103-	62- 13-A
KK6HM	12,768	133-	48- 10-B
W6TA	12,444	122-	51- 7-B
KK6JN	10,234	119-	43- 5-A
N6TJK	9,030	105-	43- 9-A
WB9AJZ/6	7,740	86-	45- 7-Q
NM6R	4,602	59-	39- 6-A
W6SX	2,900	50-	29- 2-B
KF6G (+K6GAR,N6RPL,WA6OWM)			
	291,676	1894-	77- 24-B
K6HRT (+N6s OUG,XSS,YZT)			
	183,464	1207-	76- 24-B
W6EEN (+K6XC)			
	120,916	817-	74- 18-B

Pacific

AH3C	207,284	1346-	77- 20-B
AH6KE	139,800	932-	75- 16-A
AH6AZ	51,264	356-	72- 5-A
KH6DLW	50,370	365-	69- 10-A
AH6I	30,820	230-	67- 21-A
KH6JDE	18,810	165-	57- 5-A
NH6WH	12,540	110-	57- 11-Q
K6GSS/KH6	2,484	46-	27- 24-A
KH6RS (AH6s EE,GP,NH6SI,ops)			
	63,784	476-	67- 9-B

Santa Barbara

W2KVA/6	187,110	1215-	77- 24-B
WB6KF	172,050	1147-	75- 20-B
WA6SFG	149,720	985-	76- 22-A
K6VMN	123,600	824-	75- 21-B
WA6DJS	64,350	429-	75- 16-B
N6WFM	58,772	386-	76- 18-Q
N6XXN/T	22,848	204-	56- 14-A
K16QO	17,024	152-	56- 11-A
N6QOAT	9,546	111-	43- 10-A
W6JEO	9,064	103-	44- 9-Q
N6LIU	4,116	16-	13- 2-A
WA6IAX (WA2VNT,K6SIOY,KJ6NKK, K6CY,K7SPW,W6L7XK,ops)			
	95,756	647-	74- 18-A
AA6MX (+KB5AH)			
	23,530	181-	65- 17-A

Santa Clara Valley

WA9ZBV	189,882	1233-	77- 17-A
K6LY (KN4DG,op)			
	114,152	751-	76- 19-A
N6S6	106,552	701-	76- 10-B
N6TDC	62,580	447-	70- 24-B
AJ6T	29,028	246-	59- 10-Q
N6ZB	27,572	226-	61- 8-B
K16DS	21,600	150-	72- 10-Q
K6VGV	19,278	153-	63- 6-A
N6NF	18,480	165-	56- 3-B
WB6XG	17,388	161-	54- 24-A
KB6CL	14,204	134-	53- 11-A
WA6SDM	11,340	105-	54- 24-A
KJ6MO	10,904	116-	47- 9-A
KA6E2P	10,752	96-	56- 10-A
W6JTJ	10,528	112-	47- 8-A
W6JCF	9,828	126-	39- 2-B
KA6ING/T	9,000	100-	45- 6-A
K17N/6	6,142	83-	37- 3-A
N6YEL/T	2	1-	1- 1-A
WA6GFY (AA6FB,KB6GSA,KJ6s PJ,W,H, N6s IWJ,ZEZ,N6ARY,ops)			
	182,490	1185-	77- 24-B
W6YX (+ops)			
	82,052	562-	73- 24-B

San Diego

K6JYO	310,464	2016-	77- 24-B
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W6JUF	161,084	1046-	77- 23-A
N6ND	86,336	568-	76- 12-B
N6LHZ	33,500	250-	67- 19-A
KC8EYZ	31,878	253-	63- 16-B
W6JXA	24,552	198-	62- 7-A
W6MNV	18,476	149-	62- 6-A
N6JLD	17,448	153-	58- 6-A
W6CDA	16,402	139-	59- 24-B
K16RH	14,352	138-	52- 8-A
W4QEA	13,770	135-	51- 10-B
N6OCM	13,248	138-	48- 12-A
AA6EE	8,280	90-	46- 4-A
A6EUM	3,000	50-	30- 4-Q
KT6V (+op)			
	200,200	1300-	77- 17-B
NA6WF (+KA6TY,KB6OEK,N6s AWF,DWR,ECA,RKE,YIE,NV6K,WA6s JBR,JBT,ops)			
	194,408	1279-	76- 22-B
W6NWW (KC6OE,KF6BL,KZ6X,N6s KJ, RUV,UJWW,UZH,WLX,WB6QY,W6QV,ops)			
	133,518	867-	77- 24-A
NE6O (+op)	18,840	157-	60- 11-A

San Francisco

K6AUD	215,754	1401-	77- 23-B
W6BIP	85,576	563-	76- 14-B
AA6YX	50,864	374-	68- 19-A
WB6GY	20,416	176-	58- 10-B
W6ALLY	14,840	140-	53- 5-Q
K6LRN	10,706	101-	53- 2-B

San Joaquin Valley

W6GH	304,304	1976-	77- 24-B
W9NQ	189,882	1233-	77- 24-A
W6FAH	58,064	382-	76- 13-A
N6YMM	29,232	232-	63- 24-A
K16P	15,498	123-	63- 18-A
N6FWT	13,640	124-	55- 15-A
N6YH/ZT	10,440	116-	45- 12-A
AA6RC	9,900	110-	45- 5-A
K16P (+K6CAU,KB6SBH,K16DS,N6s QIY,WTL,WA6PIC)			
	97,020	630-	77- 19-A

Sacramento Valley

W6GO (N6IG,op)			
	378,532	2458-	77- 24-B
KV6H	265,392	1746-	76- 24-A
W1FEA	237,930	1545-	77- 24-A
KF6A	154,616	901-	75- 20-B
W6RO	135,150	801-	75- 20-B
W6REC	130,416	858-	76- 24-A
N6JM	85,162	553-	77- 24-B
K6SS	77,672	511-	76- 21-A
N6TB	72,416	486-	73- 11-A
NV6O	52,910	407-	65- 24-A
K16T	31,844	242-	66- 6-B
WA6UAA	23,680	185-	64- 20-A
KB6RMM/T	12,596	134-	47- 8-A
NB6G (+KH6DW)			
	232,540	1510-	77- 24-B

7 Alaska

AA6DX	378,826	869-	77- 23-A
AL7HS	33,924	257-	66- 14-A
KL7FAP	18,792	162-	58- 11-A
AJ6CK/L7	11,128	107-	52- 6-B
AL7MK	9,108	99-	46- 24-A
KL7WP	6,084	78-	39- 9-A
NL7PJ	2,970	45-	33- 15-Q
NL7DU (+AL7KT)			
	121,360	820-	74- 24-B

Arizona

K6LL	362,516	2354-	77- 24-B
KY7M	102,564	666-	77- 14-A

KABKQWT	6,200	100	31	14-A	NQBY	26,026	169	77	12-Q	KK9V	10,004	122	41	24-B	KØEVC	11,016	108	51	13-A	ND17H	69,116	467	74	17-A
NBEA	6,000	75	40	3-A	NFBF	19,584	153	64	8-A	KK9DD	8,200	100	41	7-A	KFBMB	8,140	110	37	8-A	KØVVG	62,908	443	71	17-B
WBQIY	5,616	72	39	6-A	KBFFJ	18,704	167	56	2-A	NBJRJ/T	7,004	103	34	16-A	KFBØVZ/T	7,488	104	36	9-A	NØFBA	23,718	201	59	6-B
WDBSCX/T	5,616	104	27	10-A	KØSFS	17,024	112	76	24-A	NBIF	5,780	85	34	10-A	AABAI	3,036	86	23	6-A	Nebraska				
NBKWQ/T	5,220	87	30	14-A	WBVVM	16,758	147	57	12-A	NBFQ/T	1,584	44	18	4-A	NØCI (+KØJG/H)	196,812	1278	77	24-B	KØSCM	211,750	1375	77	24-A
WDBKZC	4,080	60	34	6-A	KVBS	15,600	150	52	24-A	NSJZ	920	23	20	6-A	KØØAD (+KØBDNA,KEØMS,KFØKY,NØs					KØØVØ	183,008	1204	76	16-B
KBØGM/N	3,248	58	28	4-A	KESB	14,476	154	47	12-A	WFRØ (+WØGZ)	127,868	829	77	16-B	KZL,MNP)					KØØUZ	125,356	814	77	21-B
WBFSS	1,620	30	27	2-A	KBFFAK	13,000	125	52	15-A	NJØC (+KJMVH,NVAVR,NX9s A,B,					KØPFV	52,836	357	74	21-A					
WBJSYX	1,32	11	6	1-A	KBBAØB	10,800	120	45	11-A	WBNØQQ,WVNW,Øps)	112,420	730	77	21-B	NØFFR	41,616	306	68	19-A					
WBFMO	18	3	3	1-A	WDBØKS	10,608	104	51	24-A	N9HAV (+KØ9EPN,NØDPR)	70,376	463	76	22-A	NØLLA	38,016	264	72	17-A					
KF8FD (+WDSHO,KØBINK,WABØVH)	107,100	714	75	24-A	N8KUQ (+KØBJYV)	24,940	215	58	13-A	WS9C (+KØ9CZ,N9s BHO,GTL,Øps)	52,988	363	73	24-A	WZ8M	22,400	175	64	16-Q					
WBØRNY (+KØVA,KØBØQ,NØs CDX,					9 Illinois					WØ9Y (+KØ9s BØH,FRH,NØKFL)	17,700	150	59	9-A	NØMCD	13,800	115	60	6-A					
GYK,GYR,NØEZ,WABTJA,WØBZPN,					AG9A	273,042	1773	77	24-B	WU9Y (+KØ9s BØH,FRH,NØKFL)	17,700	150	59	9-A	NØLYK/T	11,424	112	51	10-A					
WDBAQX)	103,500	690	75	23-B	WBØTIY	241,318	1567	77	24-B	Wisconsin					KØØL	9,064	103	44	8-A					
WØBQ (+NØDPH)	69,688	606	74	16-A	KØSØ	212,520	1380	77	24-B	AA9A	245,168	1592	77	24-B	KØØGZ/LN	40	5	4	7-A					
NØMAK (KABWØF,KØBs FHO,HMX,Øps)	56,648	388	73	22-A	NØAEJ	144,900	966	75	18-B	KA9FOX	148,302	963	77	24-A	South Dakota									
WØMAA (KØBØCM,WØTJQ,WABLA,Øps)	18,444	159	58	14-A	WABTQ	139,992	921	76	24-A	WE9V	138,750	925	75	14-B	KA3DRR/V	178,044	1203	74	22-A					
KØKSE (AF8N,NØs EPO,MMS,Øps)	9,240	110	42	18-A	KE9PM	111,750	745	75	20-A	WØSU	127,358	827	77	22-A	KØPHL	128,898	837	77	15-B					
					KXU	78,588	531	74	8-A	KA1UJU	125,510	815	77	24-A	KØWIU	47,664	331	72	24-A					
					WØKVF	64,218	417	77	24-A	KØSH	120,274	781	77	19-A	WØT (+WØVH)	285,054	1851	77	24-B					
					WØ9GKA	62,752	424	74	24-A	KW9E	115,654	751	77	24-B	VE									
					N4CC	61,600	400	77	8-A	KITMM	97,020	630	77	19-A	Maritime-Newfoundland									
					KØGH	61,200	408	75	22-A	WØ9A	81,320	535	76	12-A	VE1BEØ	209,304	1377	76	23-B					
					WØIL	56,250	375	75	14-A	KE9QT	61,600	440	70	23-A	VE1REC	16,128	144	56	24-A					
					NØBMM	55,480	380	73	21-A	WØ9RZ	45,600	300	76	17-A	VE1MQ	4,480	64	35	24-A					
					KE9XR	54,312	372	73	14-A	NØHKD	39,480	282	70	13-A	VO1AW	3,960	60	33	3-B					
					WØUD	53,568	372	72	15-A	KØØSU	38,304	266	72	23-A	Quebec									
					WØ9ZAJ	51,984	361	72	14-A	KA9WBX	32,370	249	65	17-A	VE2MS	66,450	443	75	21-A					
					NØ9R	49,248	342	72	18-A	WØNL	30,016	224	67	10-A	VE2GVZ	26,288	212	62	12-A					
					N2CKZ	42,340	290	73	24-A	WØFFA	28,258	199	71	13-A	VE2AWR	25,498	209	61	20-A					
					NØESA (KABA,Øp)	39,168	272	72	9-A	KØ9BM	27,846	221	63	24-A	VE2UL	2,184	42	26	3-A					
					KØ9BMW	38,226	277	69	19-A	WØUB	27,362	201	68	12-A	Ontario									
					KØ9DJ	36,570	265	69	17-A	NØ9NQ	24,522	183	67	12-A	VE3RM	132,392	871	76	16-B					
					WØØG/9	34,500	250	69	7-A	NØ9C	20,764	179	58	5-A	VE3DAA	75,150	501	75	20-A					
					WØ9GGY	30,672	216	71	9-A	NØ9IS	20,400	170	60	10-A	VE3DX	62,160	420	74	22-A					
					WØ9OLE	29,480	220	67	16-A	WØ9BWP	20,374	167	61	24-A	VE3EVT	41,144	278	74	13-B					
					WØ9MLY	26,432	224	59	5-A	NØ9X	18,648	148	63	6-A	VE3POS	35,052	254	69	24-Q					
					WØ9GIG	25,266	164	77	14-B	WØ9H	17,760	148	60	24-A	VE3AG	29,980	230	63	13-A					
					WØ9OL (WØØC,Øp)	23,200	200	58	4-A	WØ9N	16,688	149	56	11-A	VE3CDS	27,084	222	61	13-A					
					NØ9J	23,168	181	64	21-Q	NØ9AK	16,642	157	53	11-A	VE3TPB	26,268	199	66	9-A					
					NØ9HX	22,880	176	65	10-Q	KØ9JL	16,250	125	65	17-A	VE3ZD	18,944	128	74	13-B					
					NØ9FFZ	22,016	172	64	16-A	KØ9KJ	15,370	145	53	9-B	VE3MAC	10,080	112	45	14-A					
					AA9F	18,360	135	68	9-A	NØ9CA	14,750	125	59	5-A	VE3TEE	9,792	96	51	11-A					
					KØ9UQ	18,300	150	61	5-B	KØ9AIT	14,616	126	58	24-A	VE3FSV	8,892	114	39	7-A					
					KØ9SB	18,012	158	57	5-B	KE9VW	14,520	121	60	8-A	VE3PRIK	8,846	131	33	24-A					
					WØ9DZV	16,820	145	58	7-Q	WØ9P	14,260	155	46	14-A	VE3PPE	7,000	100	35	9-A					
					WØ9BJN	16,714	137	61	11-A	WØ9RNL	13,310	121	55	9-A	VE3JL	5,480	70	39	8-Q					
					KØ9EE	16,524	162	51	5-A	WØ9BZW	13,090	119	55	4-A	VE3XD (VE3s BE,BIE,FPI,GAS,IVU,Øps)	202,616	1333	76	22-B					
					KA9WMI	15,340	130	59	15-A	KØ9HN	12,960	144	45	11-A	Manitoba									
					NØ9KS	15,312	132	58	14-A	WØ9U	11,960	115	52	8-A	VE4GV	226,534	1471	77	24-A					
					WØ9EAZ	14,896	133	56	7-A	WØ9ON	11,110	101	55	24-A	VE4AMC	174,040	1145	76	22-A					
					KØ9GN	14,706	129	57	24-A	AG9G	9,690	95	51	4-A	VE4JK	104,850	699	75	14-B					
					WØ9TM	13,312	128	52	7-A	WØ9PDV	9,240	110	42	5-B	VE4VU	34,706	259	67	6-A					
					KØ9JK	13,090	119	55	5-A	KØ9ARA/T	7,480	110	34	13-A	VE4ADS	9,360	104	45	6-A					
					KE9BL	12,768	118	57	10-A	NØ9EYR/T	6,882	111	31	7-A	Saskatchewan									
					WØ9EJK	12,744	112	54	10-A	KØ9CQ	6,248	58	28	2-A	VE5AG	197,274	1281	77	22-B					
					NØ9IØV/T	12,126	141	43	8-A	WØ9VTL	3,000	50	30	6-A	VE5AGF	42,210	315	67	19-A					
					WØ9T	11,264	128	44	9-A	WØ9HK	2,992	44	34	24-A	VE5POU	33,152	259	64	18-A					
					KØ9Y	11,074	113	49	4-A	KØ9K	672	28	12	1-B	VE5CJA	26,586	211	63	14-A					
					KE9XS	11,040	115	48	9-A	WØ9XT (+AC9C)	285,054	1851	77	24-B	VE5TO	16,000	125	64	9-A					
					WØ9B	10,914	107	51	7-A	WØ9AIH (KØs VFV,TG,Øps)	216,062	1403	77	24-B	VE5RC (+Øps)	35,140	251	70	14-A					
					NØ9ES	10,780	110	49	12-A	WØ9B (KØs KAP9P,KYØT)	159,698	1037	77	22-B	Alberta									
					WØ9DYR	10,340	110	47	8-A	WØ9VØQ (+AEØH,KA9VRL,KE9s UR,WL,N9EAX)	66,600	450	74	24-A	VE6ATT	147,968	1088	68	19-A					
					WØ9YAS	10,200	102	50	7-A	Colorado					VE6ALP	51,900	346	75	18-Q					
					NØ9IUA/T	9,416	107	44	24-A	WØ9BK	239,162	1553	77	24-A	VE6SH	44,336	326	68	14-A					
					KØ9BB	9,270	103	45	10-A	WØ9SK	210,600	1404	75	24-B	VE6Z	40,194	319	63	15-A					
					WØ9RW	8,946	71	63	5-B	WØ9X	207,284	1346	77	24-B	VE6GLR	14,400	150	48	10-A					
					NØ9FJW	8,800	100	44	10-A	KØGAS	173,250	1125	77	23-B	VE6AO (VE6s AMR,ANL,EY,GLR,JL,LLB,PY,TFM,Øps)	101,520	705	72	24-B					
					KE9YR	7,560	84	45	3-A	KØGASZ	104,784	708	74	23-Q	British Columbia									
					NØ9FIW	6,102	113	27	9-A	WØ9WDS	98,690	695	71	14-A	VE7JWS	48,326	331	73	18-A					
					NØ9NK	6,090	105	29	5-Q	KØBJE	85,988	581	74	20-A	VE7EAL	39,368	266	74	20-B					
					KA9ØVY/T	3,500	70	25	7-A	KØBDI	74,592	504	74	18-A	VE7CYT	24,552	198	62	14-A					
					NØ9AGW/T	3,050	61	25	9-A	KØBFX	72,704	512	71	18-A	VE7ASR	8,056	106	38	12-Q					
					WØ9LN	2,730	39	35	4-Q	NØ9EFP	67,670	505	67	17-A	VE7EKS	1,120	35	16	12-Q					
					KØ9CC	874	23	19	2-A	KØ9JH	60,060	390	77	24-B	Northwest Territories									